F.R.U.I.T.Y.

(FUll-Network Repository of Updated Isotopic Tables & Yields)

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Model Parameters: ($M_\odot$ = 1.30; Z = 0.000020 [α/Fe]=0.5; iRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	4.37e-01
He4	4	2	1.79e-01
C12	12	6	2.54e-03
C13	13	6	3.34e-04
C14	14	6	3.81e-08
N14	14	7	2.65e-04
N15	15	7	3.92e-08
O16	16	8	1.78e-04
O17	17	8	6.52e-07
O18	18	8	1.71e-06
F18	18	9	0.00e+00
F19	19	9	5.86e-08
Ne20	20	10	3.18e-06
Ne21	21	10	4.55e-08
Ne22	22	10	8.02e-05
Na22	22	11	0.00e+00
Na23	23	11	3.19e-07
Na24	24	11	0.00e+00
Mg24	24	12	1.62e-06
Mg25	25	12	1.01e-07
Mg26	26	12	1.97e-07
Al26	26	13	2.89e-10
Al27	27	13	5.98e-08
Si28	28	14	2.00e-06
Si29	29	14	3.73e-08
Si30	30	14	3.75e-08
Si31	31	14	0.00e+00
Si32	32	14	1.30e-12
P31	31	15	3.11e-08
P32	32	15	0.00e+00

Isotope	A	Z	YIELD [$M_\odot$]
P33	33	15	0.00e+00
S32	32	16	1.06e-06
S33	33	16	1.22e-08
S34	34	16	6.21e-08
S35	35	16	0.00e+00
S36	36	16	9.62e-09
Cl35	35	17	4.46e-09
Cl36	36	17	1.60e-12
Cl37	37	17	1.77e-09
Ar36	36	18	2.37e-07
Ar37	37	18	0.00e+00
Ar38	38	18	1.51e-08
Ar39	39	18	0.00e+00
Ar40	40	18	1.20e-09
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	3.36e-09
K40	40	19	1.37e-11
K41	41	19	4.41e-10
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	1.78e-07
Ca41	41	20	3.02e-13
Ca42	42	20	8.39e-10
Ca43	43	20	2.20e-10
Ca44	44	20	1.67e-09
Ca45	45	20	0.00e+00
Ca46	46	20	5.02e-10
Ca47	47	20	0.00e+00
Ca48	48	20	1.56e-09
Sc45	45	21	1.66e-10
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	2.41e-10
Ti47	47	22	9.10e-10
Ti48	48	22	2.09e-09
Ti49	49	22	3.40e-10
Ti50	50	22	9.29e-10
V50	50	23	8.65e-13

V51	51	23	3.89e-10
Cr50	50	24	6.88e-10
Cr51	51	24	0.00e+00
Cr52	52	24	1.41e-08
Cr53	53	24	1.62e-09
Cr54	54	24	6.34e-10
Mn55	55	25	1.21e-08
Mn56	56	25	0.00e+00
Fe54	54	26	6.61e-08
Fe55	55	26	0.00e+00
Fe56	56	26	1.08e-06
Fe57	57	26	2.58e-08
Fe58	58	26	4.03e-09
Fe59	59	26	0.00e+00
Fe60	60	26	1.11e-09
Co59	59	27	3.42e-09
Co60	60	27	0.00e+00
Ni58	58	28	4.54e-08
Ni59	59	28	7.71e-13
Ni60	60	28	1.85e-08
Ni61	61	28	9.18e-10
Ni62	62	28	2.92e-09
Ni63	63	28	0.00e+00
Ni64	64	28	2.18e-09
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	8.57e-10
Cu64	64	29	0.00e+00
Cu65	65	29	7.71e-10
Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	9.48e-10
Zn65	65	30	0.00e+00
Zn66	66	30	2.47e-09
Zn67	67	30	4.11e-10
Zn68	68	30	1.16e-09
Zn69	69	30	0.00e+00
Zn70	70	30	6.10e-10
Ga69	69	31	2.22e-10
Ga70	70	31	0.00e+00
Ga71	71	31	1.87e-10

Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	9.79e-11
Ge71	71	32	0.00e+00
Ge72	72	32	4.65e-10
Ge73	73	32	2.62e-10
Ge74	74	32	4.48e-10
Ge75	75	32	0.00e+00
Ge76	76	32	7.64e-10
Ge77	77	32	0.00e+00
As75	75	33	1.63e-10
As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	4.68e-11
Se77	77	34	3.18e-10
Se78	78	34	9.09e-10
Se79	79	34	3.42e-11
Se80	80	34	7.14e-10
Se81	81	34	0.00e+00
Se82	82	34	2.47e-09
Br79	79	35	1.77e-10
Br80	80	35	0.00e+00
Br81	81	35	1.77e-10
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	2.72e-12
Kr81	81	36	0.00e+00
Kr82	82	36	6.33e-11
Kr83	83	36	4.36e-10
Kr84	84	36	6.54e-10
Kr85	85	36	0.00e+00
Kr86	86	36	4.70e-09
Kr87	87	36	0.00e+00
Kr88	88	36	0.00e+00
Rb85	85	37	4.31e-10
Rb86	86	37	0.00e+00
Rb87	87	37	1.29e-09
Rb88	88	37	0.00e+00
Sr86	86	38	3.55e-11
Sr87	87	38	9.95e-12

Sr88	88	38	1.86e-09		Ru02	102	44	1.44e-10
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	1.27e-10
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	7.65e-10		Rh03	103	45	5.14e-11
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	8.04e-12
Y92	92	39	0.00e+00		Pd05	105	46	5.64e-11
Y93	93	39	0.00e+00		Pd06	106	46	3.44e-10
Zr90	90	40	8.35e-10		Pd07	107	46	1.68e-11
Zr91	91	40	3.61e-10		Pd08	108	46	1.12e-10
Zr92	92	40	8.25e-10		Pd09	109	46	0.00e+00
Zr93	93	40	1.86e-10		Pd10	110	46	1.36e-10
Zr94	94	40	3.91e-10		Ag07	107	47	2.66e-12
Zr95	95	40	0.00e+00		Ag09	109	47	3.80e-11
Zr96	96	40	1.84e-09		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	0.00e+00
Nb93	93	41	1.15e-10		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	9.12e-12
Nb95	95	41	0.00e+00		Cd11	111	48	3.68e-11
Nb96	96	41	0.00e+00		Cd12	112	48	1.17e-10
Nb97	97	41	0.00e+00		Cd13	113	48	3.60e-11
Mo92	92	42	9.23e-13		Cd14	114	48	1.72e-10
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	7.22e-13		Cd16	116	48	2.80e-10
Mo95	95	42	2.95e-10		In13	113	49	0.00e+00
Mo96	96	42	8.34e-12		In15	115	49	7.80e-11
Mo97	97	42	9.80e-10		Sn14	114	50	0.00e+00
Mo98	98	42	2.47e-10		Sn15	115	50	0.00e+00
Mo99	99	42	0.00e+00		Sn16	116	50	1.74e-11
Mo00	100	42	1.96e-10		Sn17	117	50	7.36e-11
Tc97	97	43	0.00e+00		Sn18	118	50	3.54e-10
Tc98	98	43	0.00e+00		Sn19	119	50	1.09e-10
Tc99	99	43	9.86e-12		Sn20	120	50	6.06e-10
Ru96	96	44	2.32e-13		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	9.14e-10
Ru98	98	44	0.00e+00		Sn23	123	50	0.00e+00
Ru99	99	44	8.53e-11		Sn24	124	50	1.37e-09
Ru00	100	44	1.13e-11		Sb21	121	51	1.10e-10
Ru01	101	44	2.42e-11		Sb22	122	51	0.00e+00

Sb23	123	51	1.50e-10		Ce40	140	58	5.54e-10
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	2.10e-10
Te22	122	52	5.02e-12		Ce43	143	58	0.00e+00
Te23	123	52	1.52e-12		Ce44	144	58	0.00e+00
Te24	124	52	1.60e-11		Pr41	141	59	8.31e-11
Te25	125	52	7.81e-11		Pr42	142	59	0.00e+00
Te26	126	52	2.76e-10		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	4.77e-10		Nd42	142	60	2.86e-11
Te30	130	52	5.06e-12		Nd43	143	60	4.46e-11
I127	127	53	1.17e-10		Nd44	144	60	1.79e-10
I128	128	53	0.00e+00		Nd45	145	60	1.65e-11
I129	129	53	4.49e-11		Nd46	146	60	8.30e-11
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	3.75e-11
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	2.48e-11
Xe28	128	54	1.25e-11		Pm45	145	61	0.00e+00
Xe29	129	54	1.08e-11		Pm46	146	61	0.00e+00
Xe30	130	54	4.88e-11		Pm47	147	61	0.00e+00
Xe31	131	54	1.64e-10		Pm48	148	61	0.00e+00
Xe32	132	54	1.62e-10		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	5.03e-10		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	0.00e+00
Xe36	136	54	6.62e-09		Sm45	145	62	0.00e+00
Cs33	133	55	4.91e-10		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	1.09e-11
Cs35	135	55	3.99e-09		Sm48	148	62	7.99e-12
Cs36	136	55	0.00e+00		Sm49	149	62	9.32e-12
Cs37	137	55	0.00e+00		Sm50	150	62	7.00e-12
Ba34	134	56	8.49e-12		Sm51	151	62	0.00e+00
Ba35	135	56	1.12e-09		Sm52	152	62	1.65e-11
Ba36	136	56	1.28e-10		Sm53	153	62	0.00e+00
Ba37	137	56	7.52e-10		Sm54	154	62	2.43e-11
Ba38	138	56	2.17e-09		Eu51	151	63	6.19e-12
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	4.48e-12
La39	139	57	2.56e-10		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00

Eu56	156	63	0.00e+00		Yb72	172	70	7.86e-11
Eu57	157	63	0.00e+00		Yb73	173	70	1.80e-11
Gd52	152	64	0.00e+00		Yb74	174	70	5.76e-11
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00
Gd54	154	64	1.45e-12		Yb76	176	70	4.55e-11
Gd55	155	64	5.09e-12		Yb77	177	70	0.00e+00
Gd56	156	64	9.42e-12		Lu75	175	71	1.22e-11
Gd57	157	64	8.30e-12		Lu76	176	71	5.96e-13
Gd58	158	64	2.35e-11		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	4.83e-12
Gd60	160	64	2.94e-11		Hf77	177	72	1.64e-11
Tb59	159	65	8.22e-12		Hf78	178	72	3.01e-11
Tb60	160	65	0.00e+00		Hf79	179	72	1.01e-11
Tb61	161	65	0.00e+00		Hf80	180	72	5.85e-11
Dy60	160	66	3.14e-12		Hf81	181	72	0.00e+00
Dy61	161	66	6.98e-12		Hf82	182	72	3.49e-11
Dy62	162	66	1.77e-11		Hf83	183	72	0.00e+00
Dy63	163	66	6.78e-12		Hf84	184	72	0.00e+00
Dy64	164	66	3.31e-11		Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00		Ta80	180	73	0.00e+00
Dy66	166	66	0.00e+00		Ta81	181	73	2.84e-11
Ho63	163	67	0.00e+00		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta83	183	73	0.00e+00
Ho65	165	67	1.18e-11		Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00		W180	180	74	0.00e+00
Er64	164	68	9.25e-13		W181	181	74	0.00e+00
Er65	165	68	0.00e+00		W182	182	74	1.39e-11
Er66	166	68	4.34e-11		W183	183	74	3.14e-11
Er67	167	68	6.19e-12		W184	184	74	7.25e-11
Er68	168	68	2.38e-11		W185	185	74	0.00e+00
Er69	169	68	0.00e+00		W186	186	74	3.69e-11
Er70	170	68	2.96e-11		W187	187	74	0.00e+00
Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	1.49e-11
Tm69	169	69	9.40e-12		Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00		Re87	187	75	1.76e-11
Tm71	171	69	0.00e+00		Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00		Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00		Os86	186	76	7.38e-12
Yb70	170	70	2.97e-12		Os87	187	76	2.07e-12
Yb71	171	70	1.89e-11		Os88	188	76	1.08e-10

Isotope	A	Z	YIELD
Os89	189	76	1.28e-11
Os90	190	76	3.85e-11
Os91	191	76	0.00e+00
Os92	192	76	4.53e-11
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	8.49e-12
Ir92	192	77	0.00e+00
Ir93	193	77	2.35e-11
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	5.49e-12
Pt93	193	78	0.00e+00
Pt94	194	78	1.02e-10
Pt95	195	78	2.18e-11
Pt96	196	78	5.91e-11
Pt97	197	78	0.00e+00
Pt98	198	78	5.32e-11
Au97	197	79	2.63e-11
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	3.15e-11
Hg99	199	80	3.67e-11
Hg00	200	80	9.84e-11
Hg01	201	80	4.08e-11
Hg02	202	80	1.68e-10
Hg03	203	80	0.00e+00
Hg04	204	80	1.11e-10
Tl03	203	81	8.45e-11
Tl04	204	81	0.00e+00
Tl05	205	81	1.59e-10
Pb04	204	82	4.50e-11
Pb05	205	82	6.43e-12
Pb06	206	82	1.18e-09
Pb07	207	82	1.28e-09
Pb08	208	82	1.49e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	3.17e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M_α = 1.30; Z = 0.000050 [α/Fe]=0.5; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [M_α]
H	1	1	4.15e-01
He4	4	2	1.71e-01
C12	12	6	4.75e-03
C13	13	6	7.78e-07
C14	14	6	3.21e-09
N14	14	7	3.16e-05
N15	15	7	2.16e-08
O16	16	8	2.56e-04
O17	17	8	2.43e-07
O18	18	8	9.77e-08
F18	18	9	0.00e+00
F19	19	9	3.38e-07
Ne20	20	10	8.70e-06
Ne21	21	10	1.63e-07
Ne22	22	10	2.35e-04
Na22	22	11	0.00e+00
Na23	23	11	2.09e-06
Na24	24	11	0.00e+00
Mg24	24	12	7.77e-06
Mg25	25	12	1.14e-06
Mg26	26	12	1.58e-06
Al26	26	13	4.99e-09
Al27	27	13	1.81e-07
Si28	28	14	4.90e-06
Si29	29	14	9.11e-08
Si30	30	14	7.31e-08
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	6.10e-08
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	2.51e-06
S33	33	16	8.09e-09
S34	34	16	4.57e-08

S35	35	16	0.00e+00		Cr53	53	24	3.88e-09
S36	36	16	1.25e-09		Cr54	54	24	1.46e-09
Cl35	35	17	8.12e-09		Mn55	55	25	2.94e-08
Cl36	36	17	2.71e-12		Mn56	56	25	0.00e+00
Cl37	37	17	4.74e-09		Fe54	54	26	1.57e-07
Ar36	36	18	5.68e-07		Fe55	55	26	0.00e+00
Ar37	37	18	0.00e+00		Fe56	56	26	2.58e-06
Ar38	38	18	3.74e-08		Fe57	57	26	6.70e-08
Ar39	39	18	0.00e+00		Fe58	58	26	1.62e-08
Ar40	40	18	1.21e-09		Fe59	59	26	0.00e+00
Ar41	41	18	0.00e+00		Fe60	60	26	9.61e-10
Ar42	42	18	0.00e+00		Co59	59	27	9.58e-09
K39	39	19	8.15e-09		Co60	60	27	0.00e+00
K40	40	19	8.13e-11		Ni58	58	28	1.08e-07
K41	41	19	9.49e-10		Ni59	59	28	2.32e-11
K42	42	19	0.00e+00		Ni60	60	28	4.53e-08
K43	43	19	0.00e+00		Ni61	61	28	2.72e-09
Ca40	40	20	4.27e-07		Ni62	62	28	7.82e-09
Ca41	41	20	9.59e-12		Ni63	63	28	0.00e+00
Ca42	42	20	1.37e-09		Ni64	64	28	4.81e-09
Ca43	43	20	3.00e-10		Ni65	65	28	0.00e+00
Ca44	44	20	3.77e-09		Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00		Cu63	63	29	2.26e-09
Ca46	46	20	1.63e-10		Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00		Cu65	65	29	1.76e-09
Ca48	48	20	3.23e-10		Cu66	66	29	0.00e+00
Sc45	45	21	1.83e-10		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	2.42e-09
Sc47	47	21	0.00e+00		Zn65	65	30	0.00e+00
Sc48	48	21	0.00e+00		Zn66	66	30	2.37e-09
Sc49	49	21	0.00e+00		Zn67	67	30	4.35e-10
Ti46	46	22	6.93e-10		Zn68	68	30	2.51e-09
Ti47	47	22	5.55e-10		Zn69	69	30	0.00e+00
Ti48	48	22	5.00e-09		Zn70	70	30	3.57e-11
Ti49	49	22	6.13e-10		Ga69	69	31	3.26e-10
Ti50	50	22	2.21e-09		Ga70	70	31	0.00e+00
V50	50	23	2.05e-12		Ga71	71	31	2.92e-10
V51	51	23	9.34e-10		Ga72	72	31	0.00e+00
Cr50	50	24	1.63e-09		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	5.07e-10
Cr52	52	24	3.36e-08		Ge71	71	32	0.00e+00

Ge72	72	32	6.32e-10		Sr92	92	38	0.00e+00
Ge73	73	32	1.87e-10		Y89	89	39	1.16e-09
Ge74	74	32	1.18e-09		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	4.75e-11		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	1.28e-10		Zr90	90	40	1.09e-09
As76	76	33	0.00e+00		Zr91	91	40	3.08e-10
As77	77	33	0.00e+00		Zr92	92	40	4.72e-10
Se76	76	34	2.63e-10		Zr93	93	40	1.24e-10
Se77	77	34	1.17e-10		Zr94	94	40	6.09e-10
Se78	78	34	7.25e-10		Zr95	95	40	0.00e+00
Se79	79	34	3.20e-11		Zr96	96	40	2.48e-10
Se80	80	34	9.74e-10		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	5.28e-11
Se82	82	34	3.71e-11		Nb94	94	41	0.00e+00
Br79	79	35	1.36e-10		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	1.73e-10		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	2.19e-12
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	2.26e-12
Kr80	80	36	1.33e-11		Mo95	95	42	7.53e-11
Kr81	81	36	5.27e-13		Mo96	96	42	1.33e-10
Kr82	82	36	4.35e-10		Mo97	97	42	5.04e-11
Kr83	83	36	1.84e-10		Mo98	98	42	1.73e-10
Kr84	84	36	1.24e-09		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	1.30e-11
Kr86	86	36	1.95e-09		Tc97	97	43	0.00e+00
Kr87	87	36	0.00e+00		Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00		Tc99	99	43	3.80e-12
Rb85	85	37	3.42e-10		Ru96	96	44	5.49e-13
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	7.16e-10		Ru98	98	44	1.90e-13
Rb88	88	37	0.00e+00		Ru99	99	44	2.07e-11
Sr86	86	38	3.06e-10		Ru00	100	44	8.16e-11
Sr87	87	38	2.00e-10		Ru01	101	44	2.03e-11
Sr88	88	38	4.68e-09		Ru02	102	44	1.19e-10
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	1.27e-11
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00

Ru06	106	44	0.00e+00		Te23	123	52	2.10e-11
Rh03	103	45	2.34e-11		Te24	124	52	1.29e-10
Rh05	105	45	0.00e+00		Te25	125	52	4.56e-11
Pd04	104	46	6.03e-11		Te26	126	52	2.57e-10
Pd05	105	46	1.87e-11		Te27	127	52	0.00e+00
Pd06	106	46	7.68e-11		Te28	128	52	3.73e-11
Pd07	107	46	1.36e-11		Te30	130	52	1.21e-11
Pd08	108	46	9.64e-11		I127	127	53	4.08e-11
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	1.12e-11		I129	129	53	1.05e-12
Ag07	107	47	2.69e-12		I130	130	53	0.00e+00
Ag09	109	47	2.87e-11		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	1.04e-13		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	8.01e-11
Cd10	110	48	7.77e-11		Xe29	129	54	4.40e-11
Cd11	111	48	2.89e-11		Xe30	130	54	1.71e-10
Cd12	112	48	1.07e-10		Xe31	131	54	5.68e-11
Cd13	113	48	3.22e-11		Xe32	132	54	3.53e-10
Cd14	114	48	1.58e-10		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	7.66e-11
Cd16	116	48	2.44e-11		Xe35	135	54	0.00e+00
In13	113	49	0.00e+00		Xe36	136	54	4.56e-11
In15	115	49	3.26e-11		Cs33	133	55	5.10e-11
Sn14	114	50	1.59e-13		Cs34	134	55	0.00e+00
Sn15	115	50	0.00e+00		Cs35	135	55	3.56e-11
Sn16	116	50	2.10e-10		Cs36	136	55	0.00e+00
Sn17	117	50	6.77e-11		Cs37	137	55	0.00e+00
Sn18	118	50	3.27e-10		Ba34	134	56	1.00e-10
Sn19	119	50	1.00e-10		Ba35	135	56	3.99e-11
Sn20	120	50	5.42e-10		Ba36	136	56	3.52e-10
Sn21	121	50	0.00e+00		Ba37	137	56	4.02e-10
Sn22	122	50	6.65e-11		Ba38	138	56	4.33e-09
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00
Sn24	124	50	1.35e-11		Ba40	140	56	0.00e+00
Sb21	121	51	4.24e-11		La39	139	57	5.15e-10
Sb22	122	51	0.00e+00		La40	140	57	0.00e+00
Sb23	123	51	1.29e-11		Ce40	140	58	1.49e-09
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	7.25e-11
Te22	122	52	6.17e-11		Ce43	143	58	0.00e+00

Ce44	144	58	0.00e+00		Gd54	154	64	8.61e-12
Pr41	141	59	1.54e-10		Gd55	155	64	1.02e-11
Pr42	142	59	0.00e+00		Gd56	156	64	3.01e-11
Pr43	143	59	0.00e+00		Gd57	157	64	1.39e-11
Pr45	145	59	0.00e+00		Gd58	158	64	5.25e-11
Nd42	142	60	3.68e-10		Gd59	159	64	0.00e+00
Nd43	143	60	6.34e-11		Gd60	160	64	1.06e-11
Nd44	144	60	2.08e-10		Tb59	159	65	1.24e-11
Nd45	145	60	3.85e-11		Tb60	160	65	0.00e+00
Nd46	146	60	1.92e-10		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	1.74e-11
Nd48	148	60	3.20e-11		Dy61	161	66	9.59e-12
Nd49	149	60	0.00e+00		Dy62	162	66	3.90e-11
Nd50	150	60	9.70e-13		Dy63	163	66	1.32e-11
Pm45	145	61	0.00e+00		Dy64	164	66	6.48e-11
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	0.00e+00
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	1.66e-11
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	0.00e+00		Er64	164	68	5.53e-12
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	2.55e-11
Sm47	147	62	2.21e-11		Er67	167	68	1.22e-11
Sm48	148	62	4.95e-11		Er68	168	68	4.92e-11
Sm49	149	62	9.56e-12		Er69	169	68	0.00e+00
Sm50	150	62	4.11e-11		Er70	170	68	2.37e-11
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	3.60e-11		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	1.03e-11
Sm54	154	62	1.51e-11		Tm70	170	69	0.00e+00
Eu51	151	63	6.14e-12		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00
Eu53	153	63	7.42e-12		Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00		Yb70	170	70	1.51e-11
Eu55	155	63	0.00e+00		Yb71	171	70	2.26e-11
Eu56	156	63	0.00e+00		Yb72	172	70	5.72e-11
Eu57	157	63	0.00e+00		Yb73	173	70	2.65e-11
Gd52	152	64	3.37e-13		Yb74	174	70	1.26e-10
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00

Yb76	176	70	2.40e-11
Yb77	177	70	0.00e+00
Lu75	175	71	1.74e-11
Lu76	176	71	2.94e-12
Lu77	177	71	0.00e+00
Hf76	176	72	2.29e-11
Hf77	177	72	1.51e-11
Hf78	178	72	6.70e-11
Hf79	179	72	2.32e-11
Hf80	180	72	1.30e-10
Hf81	181	72	0.00e+00
Hf82	182	72	9.72e-12
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00
Ta81	181	73	2.69e-11
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	0.00e+00
W181	181	74	0.00e+00
W182	182	74	5.09e-11
W183	183	74	3.43e-11
W184	184	74	9.30e-11
W185	185	74	0.00e+00
W186	186	74	4.79e-11
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	1.86e-11
Re86	186	75	0.00e+00
Re87	187	75	1.28e-11
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	3.27e-11
Os87	187	76	8.95e-12
Os88	188	76	8.00e-11
Os89	189	76	1.76e-11
Os90	190	76	8.60e-11
Os91	191	76	0.00e+00
Os92	192	76	5.52e-11

Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	1.86e-11
Ir92	192	77	0.00e+00
Ir93	193	77	2.58e-11
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	2.32e-11
Pt93	193	78	0.00e+00
Pt94	194	78	9.87e-11
Pt95	195	78	4.07e-11
Pt96	196	78	1.32e-10
Pt97	197	78	0.00e+00
Pt98	198	78	1.26e-11
Au97	197	79	3.97e-11
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.23e-10
Hg99	199	80	6.02e-11
Hg00	200	80	2.11e-10
Hg01	201	80	9.03e-11
Hg02	202	80	3.84e-10
Hg03	203	80	0.00e+00
Hg04	204	80	1.07e-11
Tl03	203	81	1.77e-10
Tl04	204	81	0.00e+00
Tl05	205	81	3.45e-10
Pb04	204	82	2.06e-10
Pb05	205	82	1.67e-11
Pb06	206	82	2.54e-09
Pb07	207	82	3.32e-09
Pb08	208	82	6.66e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	8.11e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 1.30; Z = 0.000100 [σ/Fe]=0.5; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	4.34e-01
He4	4	2	1.72e-01
C12	12	6	3.04e-03
C13	13	6	7.08e-07
C14	14	6	2.57e-09
N14	14	7	2.78e-05
N15	15	7	1.83e-08
O16	16	8	1.98e-04
O17	17	8	3.27e-07
O18	18	8	9.46e-08
F18	18	9	0.00e+00
F19	19	9	2.21e-07
Ne20	20	10	1.56e-05
Ne21	21	10	8.39e-08
Ne22	22	10	1.23e-04
Na22	22	11	0.00e+00
Na23	23	11	1.07e-06
Na24	24	11	0.00e+00
Mg24	24	12	8.99e-06
Mg25	25	12	7.44e-07
Mg26	26	12	9.30e-07
Al26	26	13	7.42e-09
Al27	27	13	3.84e-07
Si28	28	14	1.00e-05
Si29	29	14	1.76e-07
Si30	30	14	1.33e-07
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	5.49e-08
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	5.21e-06
S33	33	16	1.53e-08
S34	34	16	8.80e-08
S35	35	16	0.00e+00
S36	36	16	1.01e-09
Cl35	35	17	1.69e-08
Cl36	36	17	3.70e-12

Isotope	A	Z	YIELD
Cl37	37	17	7.05e-09
Ar36	36	18	1.19e-06
Ar37	37	18	0.00e+00
Ar38	38	18	7.54e-08
Ar39	39	18	0.00e+00
Ar40	40	18	1.46e-09
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	1.63e-08
K40	40	19	8.58e-11
K41	41	19	1.67e-09
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	8.92e-07
Ca41	41	20	1.31e-11
Ca42	42	20	2.40e-09
Ca43	43	20	5.15e-10
Ca44	44	20	7.10e-09
Ca45	45	20	0.00e+00
Ca46	46	20	2.13e-10
Ca47	47	20	0.00e+00
Ca48	48	20	6.61e-10
Sc45	45	21	2.58e-10
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	1.21e-09
Ti47	47	22	1.07e-09
Ti48	48	22	1.03e-08
Ti49	49	22	9.71e-10
Ti50	50	22	1.46e-09
V50	50	23	4.31e-12
V51	51	23	1.80e-09
Cr50	50	24	3.43e-09
Cr51	51	24	0.00e+00
Cr52	52	24	6.95e-08
Cr53	53	24	8.03e-09
Cr54	54	24	2.38e-09
Mn55	55	25	6.12e-08
Mn56	56	25	0.00e+00

Fe54	54	26	3.30e-07
Fe55	55	26	0.00e+00
Fe56	56	26	5.40e-06
Fe57	57	26	1.36e-07
Fe58	58	26	2.82e-08
Fe59	59	26	0.00e+00
Fe60	60	26	3.74e-09
Co59	59	27	1.87e-08
Co60	60	27	0.00e+00
Ni58	58	28	2.27e-07
Ni59	59	28	3.03e-11
Ni60	60	28	9.37e-08
Ni61	61	28	5.27e-09
Ni62	62	28	1.59e-08
Ni63	63	28	0.00e+00
Ni64	64	28	1.01e-08
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	4.62e-09
Cu64	64	29	0.00e+00
Cu65	65	29	3.45e-09
Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	5.04e-09
Zn65	65	30	0.00e+00
Zn66	66	30	4.56e-09
Zn67	67	30	8.13e-10
Zn68	68	30	4.38e-09
Zn69	69	30	0.00e+00
Zn70	70	30	7.15e-11
Ga69	69	31	5.43e-10
Ga70	70	31	0.00e+00
Ga71	71	31	4.53e-10
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	7.97e-10
Ge71	71	32	0.00e+00
Ge72	72	32	9.40e-10
Ge73	73	32	2.73e-10
Ge74	74	32	1.55e-09
Ge75	75	32	0.00e+00

Ge76	76	32	8.98e-11
Ge77	77	32	0.00e+00
As75	75	33	1.72e-10
As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	3.22e-10
Se77	77	34	1.52e-10
Se78	78	34	8.33e-10
Se79	79	34	3.62e-11
Se80	80	34	1.09e-09
Se81	81	34	0.00e+00
Se82	82	34	6.10e-11
Br79	79	35	1.65e-10
Br80	80	35	0.00e+00
Br81	81	35	1.92e-10
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	2.08e-11
Kr81	81	36	6.96e-13
Kr82	82	36	4.37e-10
Kr83	83	36	2.03e-10
Kr84	84	36	1.20e-09
Kr85	85	36	0.00e+00
Kr86	86	36	9.93e-10
Kr87	87	36	0.00e+00
Kr88	88	36	0.00e+00
Rb85	85	37	2.83e-10
Rb86	86	37	0.00e+00
Rb87	87	37	3.93e-10
Rb88	88	37	0.00e+00
Sr86	86	38	2.61e-10
Sr87	87	38	1.62e-10
Sr88	88	38	1.77e-09
Sr89	89	38	0.00e+00
Sr90	90	38	0.00e+00
Sr91	91	38	0.00e+00
Sr92	92	38	0.00e+00
Y89	89	39	3.75e-10
Y90	90	39	0.00e+00
Y91	91	39	0.00e+00

Y92	92	39	0.00e+00		Pd05	105	46	7.40e-12
Y93	93	39	0.00e+00		Pd06	106	46	1.99e-11
Zr90	90	40	3.22e-10		Pd07	107	46	2.74e-12
Zr91	91	40	8.43e-11		Pd08	108	46	2.37e-11
Zr92	92	40	1.23e-10		Pd09	109	46	0.00e+00
Zr93	93	40	2.83e-11		Pd10	110	46	4.11e-12
Zr94	94	40	1.47e-10		Ag07	107	47	3.42e-12
Zr95	95	40	0.00e+00		Ag09	109	47	8.52e-12
Zr96	96	40	4.61e-11		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	1.90e-13
Nb93	93	41	1.75e-11		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	1.78e-11
Nb95	95	41	0.00e+00		Cd11	111	48	8.14e-12
Nb96	96	41	0.00e+00		Cd12	112	48	2.58e-11
Nb97	97	41	0.00e+00		Cd13	113	48	8.70e-12
Mo92	92	42	4.60e-12		Cd14	114	48	3.65e-11
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	3.23e-12		Cd16	116	48	5.60e-12
Mo95	95	42	2.01e-11		In13	113	49	1.05e-13
Mo96	96	42	3.23e-11		In15	115	49	8.55e-12
Mo97	97	42	1.31e-11		Sn14	114	50	3.34e-13
Mo98	98	42	4.29e-11		Sn15	115	50	1.74e-13
Mo99	99	42	0.00e+00		Sn16	116	50	4.77e-11
Mo00	100	42	5.33e-12		Sn17	117	50	1.66e-11
Tc97	97	43	0.00e+00		Sn18	118	50	7.29e-11
Tc98	98	43	0.00e+00		Sn19	119	50	2.28e-11
Tc99	99	43	9.31e-13		Sn20	120	50	1.13e-10
Ru96	96	44	1.15e-12		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	1.04e-11
Ru98	98	44	3.98e-13		Sn23	123	50	0.00e+00
Ru99	99	44	6.61e-12		Sn24	124	50	4.14e-12
Ru00	100	44	1.92e-11		Sb21	121	51	1.01e-11
Ru01	101	44	7.50e-12		Sb22	122	51	0.00e+00
Ru02	102	44	3.04e-11		Sb23	123	51	3.93e-12
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	6.24e-12		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	1.26e-11
Ru06	106	44	0.00e+00		Te23	123	52	4.31e-12
Rh03	103	45	8.74e-12		Te24	124	52	2.57e-11
Rh05	105	45	0.00e+00		Te25	125	52	1.26e-11
Pd04	104	46	1.39e-11		Te26	126	52	5.69e-11

Te27	127	52	0.00e+00
Te28	128	52	2.76e-11
Te30	130	52	2.53e-11
I127	127	53	2.09e-11
I128	128	53	0.00e+00
I129	129	53	1.92e-13
I130	130	53	0.00e+00
I131	131	53	0.00e+00
I132	132	53	0.00e+00
I133	133	53	0.00e+00
Xe28	128	54	1.54e-11
Xe29	129	54	2.83e-11
Xe30	130	54	3.24e-11
Xe31	131	54	2.65e-11
Xe32	132	54	8.02e-11
Xe33	133	54	0.00e+00
Xe34	134	54	1.65e-11
Xe35	135	54	0.00e+00
Xe36	136	54	9.49e-12
Cs33	133	55	1.39e-11
Cs34	134	55	0.00e+00
Cs35	135	55	5.75e-12
Cs36	136	55	0.00e+00
Cs37	137	55	0.00e+00
Ba34	134	56	1.85e-11
Ba35	135	56	1.09e-11
Ba36	136	56	6.46e-11
Ba37	137	56	6.44e-11
Ba38	138	56	7.98e-10
Ba39	139	56	0.00e+00
Ba40	140	56	0.00e+00
La39	139	57	9.67e-11
La40	140	57	0.00e+00
Ce40	140	58	3.03e-10
Ce41	141	58	0.00e+00
Ce42	142	58	1.28e-11
Ce43	143	58	0.00e+00
Ce44	144	58	0.00e+00
Pr41	141	59	3.20e-11
Pr42	142	59	0.00e+00
Pr43	143	59	0.00e+00

Pr45	145	59	0.00e+00
Nd42	142	60	7.73e-11
Nd43	143	60	1.39e-11
Nd44	144	60	4.31e-11
Nd45	145	60	8.52e-12
Nd46	146	60	3.92e-11
Nd47	147	60	0.00e+00
Nd48	148	60	6.55e-12
Nd49	149	60	0.00e+00
Nd50	150	60	9.27e-13
Pm45	145	61	0.00e+00
Pm46	146	61	0.00e+00
Pm47	147	61	0.00e+00
Pm48	148	61	0.00e+00
Pm49	149	61	0.00e+00
Pm50	150	61	0.00e+00
Pm51	151	61	0.00e+00
Sm44	144	62	1.36e-13
Sm45	145	62	0.00e+00
Sm46	146	62	0.00e+00
Sm47	147	62	4.96e-12
Sm48	148	62	1.00e-11
Sm49	149	62	2.41e-12
Sm50	150	62	8.18e-12
Sm51	151	62	0.00e+00
Sm52	152	62	8.07e-12
Sm53	153	62	0.00e+00
Sm54	154	62	3.90e-12
Eu51	151	63	1.93e-12
Eu52	152	63	0.00e+00
Eu53	153	63	2.26e-12
Eu54	154	63	0.00e+00
Eu55	155	63	0.00e+00
Eu56	156	63	0.00e+00
Eu57	157	63	0.00e+00
Gd52	152	64	0.00e+00
Gd53	153	64	0.00e+00
Gd54	154	64	1.75e-12
Gd55	155	64	2.81e-12
Gd56	156	64	6.85e-12
Gd57	157	64	3.53e-12

Gd58	158	64	1.13e-11		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	4.68e-12
Gd60	160	64	3.29e-12		Hf77	177	72	3.57e-12
Tb59	159	65	3.37e-12		Hf78	178	72	1.40e-11
Tb60	160	65	0.00e+00		Hf79	179	72	4.99e-12
Tb61	161	65	0.00e+00		Hf80	180	72	2.69e-11
Dy60	160	66	3.39e-12		Hf81	181	72	0.00e+00
Dy61	161	66	3.10e-12		Hf82	182	72	1.81e-12
Dy62	162	66	9.09e-12		Hf83	183	72	0.00e+00
Dy63	163	66	4.24e-12		Hf84	184	72	0.00e+00
Dy64	164	66	1.48e-11		Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00		Ta80	180	73	0.00e+00
Dy66	166	66	0.00e+00		Ta81	181	73	5.84e-12
Ho63	163	67	0.00e+00		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta83	183	73	0.00e+00
Ho65	165	67	4.83e-12		Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00		W180	180	74	0.00e+00
Er64	164	68	1.10e-12		W181	181	74	0.00e+00
Er65	165	68	0.00e+00		W182	182	74	1.07e-11
Er66	166	68	6.44e-12		W183	183	74	7.28e-12
Er67	167	68	3.47e-12		W184	184	74	1.98e-11
Er68	168	68	1.09e-11		W185	185	74	0.00e+00
Er69	169	68	0.00e+00		W186	186	74	1.05e-11
Er70	170	68	5.26e-12		W187	187	74	0.00e+00
Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	4.22e-12
Tm69	169	69	2.76e-12		Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00		Re87	187	75	3.06e-12
Tm71	171	69	0.00e+00		Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00		Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00		Os86	186	76	6.72e-12
Yb70	170	70	3.08e-12		Os87	187	76	2.25e-12
Yb71	171	70	5.23e-12		Os88	188	76	1.75e-11
Yb72	172	70	1.20e-11		Os89	189	76	5.73e-12
Yb73	173	70	5.88e-12		Os90	190	76	2.08e-11
Yb74	174	70	2.62e-11		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	1.65e-11
Yb76	176	70	5.08e-12		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	4.11e-12		Ir91	191	77	8.70e-12
Lu76	176	71	6.01e-13		Ir92	192	77	0.00e+00

Isotope	A	Z	YIELD [M$_\odot$]
Ir93	193	77	1.35e-11
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	4.70e-12
Pt93	193	78	0.00e+00
Pt94	194	78	2.84e-11
Pt95	195	78	1.76e-11
Pt96	196	78	3.34e-11
Pt97	197	78	0.00e+00
Pt98	198	78	4.36e-12
Au97	197	79	1.21e-11
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	2.54e-11
Hg99	199	80	1.36e-11
Hg00	200	80	4.41e-11
Hg01	201	80	1.92e-11
Hg02	202	80	7.94e-11
Hg03	203	80	0.00e+00
Hg04	204	80	2.32e-12
Tl03	203	81	3.68e-11
Tl04	204	81	0.00e+00
Tl05	205	81	7.36e-11
Pb04	204	82	4.41e-11
Pb05	205	82	4.25e-12
Pb06	206	82	6.23e-10
Pb07	207	82	8.31e-10
Pb08	208	82	2.79e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	3.19e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M$_\alpha$ = 1.30; Z = 0.000300 [α/Fe]=0.5; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [M$_\odot$]

Isotope	A	Z	YIELD
H	1	1	4.65e-01
He4	4	2	1.81e-01
C12	12	6	2.71e-03
C13	13	6	1.14e-06
C14	14	6	6.91e-11
N14	14	7	3.68e-05
N15	15	7	2.88e-08
O16	16	8	3.55e-04
O17	17	8	7.81e-07
O18	18	8	1.41e-07
F18	18	9	0.00e+00
F19	19	9	2.16e-07
Ne20	20	10	4.76e-05
Ne21	21	10	8.12e-08
Ne22	22	10	8.91e-05
Na22	22	11	0.00e+00
Na23	23	11	1.08e-06
Na24	24	11	0.00e+00
Mg24	24	12	2.49e-05
Mg25	25	12	1.30e-06
Mg26	26	12	1.47e-06
Al26	26	13	1.20e-08
Al27	27	13	1.02e-06
Si28	28	14	3.10e-05
Si29	29	14	5.32e-07
Si30	30	14	3.92e-07
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	1.39e-07
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	1.63e-05
S33	33	16	4.63e-08
S34	34	16	2.67e-07
S35	35	16	0.00e+00
S36	36	16	2.47e-09
Cl35	35	17	5.28e-08
Cl36	36	17	1.34e-11
Cl37	37	17	2.09e-08
Ar36	36	18	3.71e-06
Ar37	37	18	0.00e+00

Ar38	38	18	2.33e-07		Fe57	57	26	4.17e-07
Ar39	39	18	1.55e-13		Fe58	58	26	7.69e-08
Ar40	40	18	3.97e-09		Fe59	59	26	0.00e+00
Ar41	41	18	0.00e+00		Fe60	60	26	1.32e-08
Ar42	42	18	0.00e+00		Co59	59	27	5.60e-08
K39	39	19	5.06e-08		Co60	60	27	0.00e+00
K40	40	19	2.26e-10		Ni58	58	28	7.10e-07
K41	41	19	4.86e-09		Ni59	59	28	1.27e-10
K42	42	19	0.00e+00		Ni60	60	28	2.91e-07
K43	43	19	0.00e+00		Ni61	61	28	1.58e-08
Ca40	40	20	2.79e-06		Ni62	62	28	4.80e-08
Ca41	41	20	5.30e-11		Ni63	63	28	0.00e+00
Ca42	42	20	7.14e-09		Ni64	64	28	2.90e-08
Ca43	43	20	1.52e-09		Ni65	65	28	0.00e+00
Ca44	44	20	2.19e-08		Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00		Cu63	63	29	1.37e-08
Ca46	46	20	6.40e-10		Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00		Cu65	65	29	9.80e-09
Ca48	48	20	2.07e-09		Cu66	66	29	0.00e+00
Sc45	45	21	7.56e-10		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	1.58e-08
Sc47	47	21	0.00e+00		Zn65	65	30	0.00e+00
Sc48	48	21	0.00e+00		Zn66	66	30	1.32e-08
Sc49	49	21	0.00e+00		Zn67	67	30	2.29e-09
Ti46	46	22	3.74e-09		Zn68	68	30	1.18e-08
Ti47	47	22	3.30e-09		Zn69	69	30	0.00e+00
Ti48	48	22	3.22e-08		Zn70	70	30	2.22e-10
Ti49	49	22	2.88e-09		Ga69	69	31	1.43e-09
Ti50	50	22	3.95e-09		Ga70	70	31	0.00e+00
V50	50	23	1.35e-11		Ga71	71	31	1.20e-09
V51	51	23	5.61e-09		Ga72	72	31	0.00e+00
Cr50	50	24	1.07e-08		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	2.07e-09
Cr52	52	24	2.17e-07		Ge71	71	32	0.00e+00
Cr53	53	24	2.51e-08		Ge72	72	32	2.42e-09
Cr54	54	24	7.13e-09		Ge73	73	32	6.93e-10
Mn55	55	25	1.91e-07		Ge74	74	32	3.80e-09
Mn56	56	25	0.00e+00		Ge75	75	32	0.00e+00
Fe54	54	26	1.03e-06		Ge76	76	32	2.76e-10
Fe55	55	26	0.00e+00		Ge77	77	32	0.00e+00
Fe56	56	26	1.69e-05		As75	75	33	4.31e-10

As76	76	33	0.00e+00		Zr91	91	40	1.74e-10
As77	77	33	0.00e+00		Zr92	92	40	2.58e-10
Se76	76	34	7.68e-10		Zr93	93	40	5.63e-11
Se77	77	34	3.81e-10		Zr94	94	40	3.21e-10
Se78	78	34	1.97e-09		Zr95	95	40	0.00e+00
Se79	79	34	9.28e-11		Zr96	96	40	1.04e-10
Se80	80	34	2.61e-09		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	4.04e-11
Se82	82	34	1.88e-10		Nb94	94	41	0.00e+00
Br79	79	35	3.91e-10		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	4.63e-10		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	1.44e-11
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	1.01e-11
Kr80	80	36	6.83e-11		Mo95	95	42	4.58e-11
Kr81	81	36	3.95e-12		Mo96	96	42	7.24e-11
Kr82	82	36	1.01e-09		Mo97	97	42	3.10e-11
Kr83	83	36	4.96e-10		Mo98	98	42	1.01e-10
Kr84	84	36	2.77e-09		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	1.37e-11
Kr86	86	36	1.98e-09		Tc97	97	43	0.00e+00
Kr87	87	36	0.00e+00		Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00		Tc99	99	43	2.71e-12
Rb85	85	37	5.86e-10		Ru96	96	44	3.62e-12
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	7.37e-10		Ru98	98	44	1.25e-12
Rb88	88	37	0.00e+00		Ru99	99	44	1.63e-11
Sr86	86	38	5.97e-10		Ru00	100	44	4.50e-11
Sr87	87	38	3.62e-10		Ru01	101	44	1.99e-11
Sr88	88	38	3.60e-09		Ru02	102	44	7.35e-11
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	1.68e-11
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	7.42e-10		Rh03	103	45	2.34e-11
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	3.30e-11
Y92	92	39	0.00e+00		Pd05	105	46	2.01e-11
Y93	93	39	0.00e+00		Pd06	106	46	4.88e-11
Zr90	90	40	6.93e-10		Pd07	107	46	6.18e-12

Pd08	108	46	5.75e-11	I127	127	53	6.10e-11
Pd09	109	46	0.00e+00	I128	128	53	0.00e+00
Pd10	110	46	1.02e-11	I129	129	53	4.60e-13
Ag07	107	47	1.05e-11	I130	130	53	0.00e+00
Ag09	109	47	2.18e-11	I131	131	53	0.00e+00
Ag11	111	47	0.00e+00	I132	132	53	0.00e+00
Cd08	108	48	6.10e-13	I133	133	53	0.00e+00
Cd09	109	48	0.00e+00	Xe28	128	54	3.74e-11
Cd10	110	48	4.24e-11	Xe29	129	54	8.42e-11
Cd11	111	48	2.04e-11	Xe30	130	54	7.93e-11
Cd12	112	48	6.16e-11	Xe31	131	54	7.67e-11
Cd13	113	48	2.16e-11	Xe32	132	54	2.06e-10
Cd14	114	48	8.59e-11	Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00	Xe34	134	54	4.59e-11
Cd16	116	48	1.17e-11	Xe35	135	54	0.00e+00
In13	113	49	3.29e-13	Xe36	136	54	3.50e-11
In15	115	49	2.09e-11	Cs33	133	55	3.71e-11
Sn14	114	50	1.05e-12	Cs34	134	55	0.00e+00
Sn15	115	50	5.44e-13	Cs35	135	55	1.27e-11
Sn16	116	50	1.12e-10	Cs36	136	55	0.00e+00
Sn17	117	50	3.99e-11	Cs37	137	55	0.00e+00
Sn18	118	50	1.70e-10	Ba34	134	56	4.63e-11
Sn19	119	50	5.38e-11	Ba35	135	56	2.97e-11
Sn20	120	50	2.65e-10	Ba36	136	56	1.59e-10
Sn21	121	50	0.00e+00	Ba37	137	56	1.60e-10
Sn22	122	50	2.51e-11	Ba38	138	56	1.93e-09
Sn23	123	50	0.00e+00	Ba39	139	56	0.00e+00
Sn24	124	50	1.42e-11	Ba40	140	56	0.00e+00
Sb21	121	51	2.46e-11	La39	139	57	2.34e-10
Sb22	122	51	0.00e+00	La40	140	57	0.00e+00
Sb23	123	51	1.03e-11	Ce40	140	58	7.40e-10
Sb24	124	51	0.00e+00	Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00	Ce42	142	58	2.91e-11
Te22	122	52	2.98e-11	Ce43	143	58	0.00e+00
Te23	123	52	1.03e-11	Ce44	144	58	0.00e+00
Te24	124	52	6.17e-11	Pr41	141	59	7.60e-11
Te25	125	52	3.33e-11	Pr42	142	59	0.00e+00
Te26	126	52	1.44e-10	Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00	Pr45	145	59	0.00e+00
Te28	128	52	8.34e-11	Nd42	142	60	1.89e-10
Te30	130	52	7.92e-11	Nd43	143	60	3.41e-11

Nd44	144	60	1.03e-10		Tb59	159	65	8.82e-12
Nd45	145	60	2.08e-11		Tb60	160	65	0.00e+00
Nd46	146	60	9.51e-11		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	8.27e-12
Nd48	148	60	1.40e-11		Dy61	161	66	8.40e-12
Nd49	149	60	0.00e+00		Dy62	162	66	2.33e-11
Nd50	150	60	2.76e-12		Dy63	163	66	1.16e-11
Pm45	145	61	0.00e+00		Dy64	164	66	3.78e-11
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	0.00e+00
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	1.31e-11
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	4.26e-13		Er64	164	68	2.76e-12
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	1.70e-11
Sm47	147	62	1.24e-11		Er67	167	68	9.26e-12
Sm48	148	62	2.55e-11		Er68	168	68	2.83e-11
Sm49	149	62	6.18e-12		Er69	169	68	0.00e+00
Sm50	150	62	1.98e-11		Er70	170	68	1.21e-11
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	2.02e-11		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	7.28e-12
Sm54	154	62	9.15e-12		Tm70	170	69	0.00e+00
Eu51	151	63	5.22e-12		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00
Eu53	153	63	6.08e-12		Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00		Yb70	170	70	7.94e-12
Eu55	155	63	0.00e+00		Yb71	171	70	1.33e-11
Eu56	156	63	0.00e+00		Yb72	172	70	3.05e-11
Eu57	157	63	0.00e+00		Yb73	173	70	1.51e-11
Gd52	152	64	1.79e-13		Yb74	174	70	6.75e-11
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00
Gd54	154	64	4.31e-12		Yb76	176	70	1.11e-11
Gd55	155	64	7.21e-12		Yb77	177	70	0.00e+00
Gd56	156	64	1.67e-11		Lu75	175	71	1.09e-11
Gd57	157	64	8.89e-12		Lu76	176	71	4.68e-12
Gd58	158	64	2.76e-11		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	4.37e-12
Gd60	160	64	8.17e-12		Hf77	177	72	9.65e-12

Isotope	A	Z	Yield
Hf78	178	72	3.57e-11
Hf79	179	72	1.28e-11
Hf80	180	72	6.83e-11
Hf81	181	72	0.00e+00
Hf82	182	72	3.71e-12
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00
Ta81	181	73	1.50e-11
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	0.00e+00
W181	181	74	0.00e+00
W182	182	74	2.82e-11
W183	183	74	1.89e-11
W184	184	74	5.12e-11
W185	185	74	0.00e+00
W186	186	74	2.51e-11
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	1.10e-11
Re86	186	75	0.00e+00
Re87	187	75	7.48e-12
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	1.76e-11
Os87	187	76	6.11e-12
Os88	188	76	4.45e-11
Os89	189	76	1.58e-11
Os90	190	76	5.49e-11
Os91	191	76	0.00e+00
Os92	192	76	4.24e-11
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	2.53e-11
Ir92	192	77	0.00e+00
Ir93	193	77	3.94e-11
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00

Isotope	A	Z	Yield
Pt92	192	78	1.23e-11
Pt93	193	78	0.00e+00
Pt94	194	78	7.70e-11
Pt95	195	78	5.09e-11
Pt96	196	78	9.08e-11
Pt97	197	78	0.00e+00
Pt98	198	78	1.12e-11
Au97	197	79	3.40e-11
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	6.71e-11
Hg99	199	80	3.60e-11
Hg00	200	80	1.15e-10
Hg01	201	80	5.03e-11
Hg02	202	80	2.08e-10
Hg03	203	80	0.00e+00
Hg04	204	80	6.13e-12
Tl03	203	81	9.47e-11
Tl04	204	81	0.00e+00
Tl05	205	81	1.95e-10
Pb04	204	82	1.16e-10
Pb05	205	82	1.44e-11
Pb06	206	82	1.42e-09
Pb07	207	82	1.85e-09
Pb08	208	82	5.24e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	4.97e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 1.30; Z = 0.001000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	4.67e-01
He4	4	2	1.81e-01
C12	12	6	2.23e-03

C13	13	6	3.24e-06
C14	14	6	3.14e-11
N14	14	7	8.67e-05
N15	15	7	8.05e-08
O16	16	8	3.50e-04
O17	17	8	8.18e-07
O18	18	8	4.70e-07
F18	18	9	0.00e+00
F19	19	9	1.45e-07
Ne20	20	10	5.02e-05
Ne21	21	10	1.56e-07
Ne22	22	10	6.60e-05
Na22	22	11	0.00e+00
Na23	23	11	2.27e-06
Na24	24	11	0.00e+00
Mg24	24	12	2.59e-05
Mg25	25	12	3.45e-06
Mg26	26	12	3.95e-06
Al26	26	13	1.32e-08
Al27	27	13	3.00e-06
Si28	28	14	3.28e-05
Si29	29	14	1.73e-06
Si30	30	14	1.19e-06
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	3.20e-07
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	1.72e-05
S33	33	16	1.43e-07
S34	34	16	8.24e-07
S35	35	16	0.00e+00
S36	36	16	4.33e-09
Cl35	35	17	1.76e-07
Cl36	36	17	2.38e-11
Cl37	37	17	6.31e-08
Ar36	36	18	3.94e-06
Ar37	37	18	0.00e+00
Ar38	38	18	7.63e-07
Ar39	39	18	0.00e+00
Ar40	40	18	1.87e-09

Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	1.65e-07
K40	40	19	2.68e-10
K41	41	19	1.33e-08
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	2.96e-06
Ca41	41	20	4.10e-11
Ca42	42	20	2.15e-08
Ca43	43	20	4.59e-09
Ca44	44	20	7.05e-08
Ca45	45	20	0.00e+00
Ca46	46	20	2.05e-10
Ca47	47	20	0.00e+00
Ca48	48	20	6.86e-09
Sc45	45	21	2.06e-09
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	1.16e-08
Ti47	47	22	1.06e-08
Ti48	48	22	1.07e-07
Ti49	49	22	8.53e-09
Ti50	50	22	9.27e-09
V50	50	23	4.53e-11
V51	51	23	1.86e-08
Cr50	50	24	3.60e-08
Cr51	51	24	0.00e+00
Cr52	52	24	7.27e-07
Cr53	53	24	8.40e-08
Cr54	54	24	2.32e-08
Mn55	55	25	6.38e-07
Mn56	56	25	0.00e+00
Fe54	54	26	3.46e-06
Fe55	55	26	0.00e+00
Fe56	56	26	5.66e-05
Fe57	57	26	1.39e-06
Fe58	58	26	2.61e-07
Fe59	59	26	0.00e+00

Fe60	60	26	4.30e-09		Se77	77	34	5.43e-10
Co59	59	27	1.89e-07		Se78	78	34	1.88e-09
Co60	60	27	0.00e+00		Se79	79	34	2.23e-11
Ni58	58	28	2.38e-06		Se80	80	34	3.71e-09
Ni59	59	28	2.68e-10		Se81	81	34	0.00e+00
Ni60	60	28	9.65e-07		Se82	82	34	5.77e-10
Ni61	61	28	4.80e-08		Br79	79	35	6.11e-10
Ni62	62	28	1.46e-07		Br80	80	35	0.00e+00
Ni63	63	28	0.00e+00		Br81	81	35	6.36e-10
Ni64	64	28	4.26e-08		Br82	82	35	0.00e+00
Ni65	65	28	0.00e+00		Br83	83	35	0.00e+00
Ni66	66	28	0.00e+00		Br84	84	35	0.00e+00
Cu63	63	29	3.42e-08		Kr80	80	36	1.40e-10
Cu64	64	29	0.00e+00		Kr81	81	36	2.01e-12
Cu65	65	29	1.50e-08		Kr82	82	36	8.58e-10
Cu66	66	29	0.00e+00		Kr83	83	36	7.32e-10
Cu67	67	29	0.00e+00		Kr84	84	36	3.72e-09
Zn64	64	30	5.02e-08		Kr85	85	36	0.00e+00
Zn65	65	30	0.00e+00		Kr86	86	36	1.24e-09
Zn66	66	30	3.03e-08		Kr87	87	36	0.00e+00
Zn67	67	30	4.59e-09		Kr88	88	36	0.00e+00
Zn68	68	30	2.13e-08		Rb85	85	37	6.00e-10
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	6.90e-10		Rb87	87	37	2.86e-10
Ga69	69	31	2.07e-09		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	4.04e-10
Ga71	71	31	1.46e-09		Sr87	87	38	2.87e-10
Ga72	72	31	0.00e+00		Sr88	88	38	4.92e-09
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	2.53e-09		Sr90	90	38	0.00e+00
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	3.32e-09		Sr92	92	38	0.00e+00
Ge73	73	32	9.39e-10		Y89	89	39	1.20e-09
Ge74	74	32	4.55e-09		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	8.59e-10		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	6.21e-10		Zr90	90	40	1.43e-09
As76	76	33	0.00e+00		Zr91	91	40	3.50e-10
As77	77	33	0.00e+00		Zr92	92	40	5.56e-10
Se76	76	34	7.22e-10		Zr93	93	40	9.85e-11

Zr94	94	40	7.23e-10	Ag07	107	47	3.46e-11
Zr95	95	40	0.00e+00	Ag09	109	47	5.29e-11
Zr96	96	40	1.56e-10	Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00	Cd08	108	48	2.07e-12
Nb93	93	41	1.15e-10	Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00	Cd10	110	48	8.58e-11
Nb95	95	41	0.00e+00	Cd11	111	48	4.86e-11
Nb96	96	41	0.00e+00	Cd12	112	48	1.32e-10
Nb97	97	41	0.00e+00	Cd13	113	48	5.04e-11
Mo92	92	42	4.83e-11	Cd14	114	48	1.82e-10
Mo93	93	42	0.00e+00	Cd15	115	48	0.00e+00
Mo94	94	42	3.36e-11	Cd16	116	48	2.88e-11
Mo95	95	42	1.11e-10	In13	113	49	1.11e-12
Mo96	96	42	1.66e-10	In15	115	49	4.86e-11
Mo97	97	42	7.26e-11	Sn14	114	50	3.52e-12
Mo98	98	42	2.18e-10	Sn15	115	50	1.83e-12
Mo99	99	42	0.00e+00	Sn16	116	50	2.41e-10
Mo00	100	42	3.92e-11	Sn17	117	50	9.29e-11
Tc97	97	43	0.00e+00	Sn18	118	50	3.83e-10
Tc98	98	43	0.00e+00	Sn19	119	50	1.24e-10
Tc99	99	43	4.75e-12	Sn20	120	50	6.09e-10
Ru96	96	44	1.21e-11	Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00	Sn22	122	50	6.09e-11
Ru98	98	44	4.19e-12	Sn23	123	50	0.00e+00
Ru99	99	44	4.23e-11	Sn24	124	50	3.48e-11
Ru00	100	44	9.14e-11	Sb21	121	51	6.12e-11
Ru01	101	44	5.32e-11	Sb22	122	51	0.00e+00
Ru02	102	44	1.59e-10	Sb23	123	51	2.90e-11
Ru03	103	44	0.00e+00	Sb24	124	51	0.00e+00
Ru04	104	44	4.91e-11	Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00	Te22	122	52	6.96e-11
Ru06	106	44	0.00e+00	Te23	123	52	2.43e-11
Rh03	103	45	6.24e-11	Te24	124	52	1.45e-10
Rh05	105	45	0.00e+00	Te25	125	52	9.04e-11
Pd04	104	46	6.59e-11	Te26	126	52	3.53e-10
Pd05	105	46	5.49e-11	Te27	127	52	0.00e+00
Pd06	106	46	1.08e-10	Te28	128	52	2.70e-10
Pd07	107	46	1.04e-11	Te30	130	52	2.66e-10
Pd08	108	46	1.23e-10	I127	127	53	1.87e-10
Pd09	109	46	0.00e+00	I128	128	53	0.00e+00
Pd10	110	46	2.75e-11	I129	129	53	8.73e-13

I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	3.41e-11
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	9.07e-12
Xe28	128	54	8.46e-11		Pm45	145	61	0.00e+00
Xe29	129	54	2.66e-10		Pm46	146	61	0.00e+00
Xe30	130	54	1.80e-10		Pm47	147	61	0.00e+00
Xe31	131	54	2.33e-10		Pm48	148	61	0.00e+00
Xe32	132	54	5.19e-10		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	1.26e-10		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	1.43e-12
Xe36	136	54	7.33e-11		Sm45	145	62	0.00e+00
Cs33	133	55	1.00e-10		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	3.34e-11
Cs35	135	55	2.38e-11		Sm48	148	62	7.06e-11
Cs36	136	55	0.00e+00		Sm49	149	62	1.74e-11
Cs37	137	55	0.00e+00		Sm50	150	62	5.23e-11
Ba34	134	56	1.08e-10		Sm51	151	62	0.00e+00
Ba35	135	56	8.32e-11		Sm52	152	62	5.49e-11
Ba36	136	56	3.55e-10		Sm53	153	62	0.00e+00
Ba37	137	56	3.69e-10		Sm54	154	62	2.33e-11
Ba38	138	56	4.67e-09		Eu51	151	63	1.55e-11
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	1.78e-11
La39	139	57	5.79e-10		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	1.94e-09		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	9.83e-11		Gd52	152	64	5.76e-13
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	1.19e-11
Pr41	141	59	1.97e-10		Gd55	155	64	1.99e-11
Pr42	142	59	0.00e+00		Gd56	156	64	4.52e-11
Pr43	143	59	0.00e+00		Gd57	157	64	2.49e-11
Pr45	145	59	0.00e+00		Gd58	158	64	7.58e-11
Nd42	142	60	4.88e-10		Gd59	159	64	0.00e+00
Nd43	143	60	9.12e-11		Gd60	160	64	2.29e-11
Nd44	144	60	2.71e-10		Tb59	159	65	2.58e-11
Nd45	145	60	5.60e-11		Tb60	160	65	0.00e+00
Nd46	146	60	2.52e-10		Tb61	161	65	0.00e+00

Dy60	160	66	2.28e-11
Dy61	161	66	2.52e-11
Dy62	162	66	6.64e-11
Dy63	163	66	3.50e-11
Dy64	164	66	1.07e-10
Dy65	165	66	0.00e+00
Dy66	166	66	0.00e+00
Ho63	163	67	0.00e+00
Ho64	164	67	0.00e+00
Ho65	165	67	3.87e-11
Ho66	166	67	0.00e+00
Er64	164	68	7.97e-12
Er65	165	68	0.00e+00
Er66	166	68	4.97e-11
Er67	167	68	2.70e-11
Er68	168	68	7.89e-11
Er69	169	68	0.00e+00
Er70	170	68	2.88e-11
Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	2.08e-11
Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00
Tm73	173	69	0.00e+00
Yb70	170	70	2.23e-11
Yb71	171	70	3.56e-11
Yb72	172	70	8.08e-11
Yb73	173	70	4.04e-11
Yb74	174	70	1.72e-10
Yb75	175	70	0.00e+00
Yb76	176	70	2.56e-11
Yb77	177	70	0.00e+00
Lu75	175	71	2.88e-11
Lu76	176	71	1.16e-11
Lu77	177	71	0.00e+00
Hf76	176	72	1.13e-11
Hf77	177	72	2.51e-11
Hf78	178	72	8.76e-11
Hf79	179	72	3.18e-11
Hf80	180	72	1.66e-10

Hf81	181	72	0.00e+00
Hf82	182	72	8.02e-12
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00
Ta81	181	73	3.67e-11
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	0.00e+00
W181	181	74	0.00e+00
W182	182	74	7.18e-11
W183	183	74	4.71e-11
W184	184	74	1.23e-10
W185	185	74	0.00e+00
W186	186	74	5.32e-11
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	2.68e-11
Re86	186	75	0.00e+00
Re87	187	75	1.67e-11
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	4.32e-11
Os87	187	76	1.64e-11
Os88	188	76	1.06e-10
Os89	189	76	4.38e-11
Os90	190	76	1.37e-10
Os91	191	76	0.00e+00
Os92	192	76	1.09e-10
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	7.58e-11
Ir92	192	77	0.00e+00
Ir93	193	77	1.19e-10
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	2.98e-11
Pt93	193	78	0.00e+00
Pt94	194	78	2.08e-10

Isotope	A	Z	YIELD
Pt95	195	78	1.51e-10
Pt96	196	78	2.30e-10
Pt97	197	78	0.00e+00
Pt98	198	78	3.13e-11
Au97	197	79	9.12e-11
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.46e-10
Hg99	199	80	8.12e-11
Hg00	200	80	2.37e-10
Hg01	201	80	1.03e-10
Hg02	202	80	4.20e-10
Hg03	203	80	0.00e+00
Hg04	204	80	1.54e-11
Tl03	203	81	1.89e-10
Tl04	204	81	0.00e+00
Tl05	205	81	4.42e-10
Pb04	204	82	2.36e-10
Pb05	205	82	3.45e-11
Pb06	206	82	3.14e-09
Pb07	207	82	4.38e-09
Pb08	208	82	8.31e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	6.73e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M_o = 1.30; Z = 0.002000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	4.74e-01
He4	4	2	1.88e-01
C12	12	6	2.17e-03
C13	13	6	6.73e-06
C14	14	6	1.14e-09
N14	14	7	1.63e-04

Isotope	A	Z	YIELD
N15	15	7	1.80e-07
O16	16	8	6.44e-04
O17	17	8	1.25e-06
O18	18	8	1.00e-06
F18	18	9	0.00e+00
F19	19	9	1.17e-07
Ne20	20	10	1.03e-04
Ne21	21	10	2.99e-07
Ne22	22	10	7.47e-05
Na22	22	11	0.00e+00
Na23	23	11	4.25e-06
Na24	24	11	0.00e+00
Mg24	24	12	5.26e-05
Mg25	25	12	6.89e-06
Mg26	26	12	7.91e-06
Al26	26	13	1.98e-08
Al27	27	13	6.00e-06
Si28	28	14	6.71e-05
Si29	29	14	3.53e-06
Si30	30	14	2.43e-06
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	6.48e-07
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	3.53e-05
S33	33	16	2.91e-07
S34	34	16	1.68e-06
S35	35	16	0.00e+00
S36	36	16	8.41e-09
Cl35	35	17	3.61e-07
Cl36	36	17	4.34e-11
Cl37	37	17	1.29e-07
Ar36	36	18	8.07e-06
Ar37	37	18	0.00e+00
Ar38	38	18	1.56e-06
Ar39	39	18	2.24e-13
Ar40	40	18	3.48e-09
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	3.36e-07

K40	40	19	4.85e-10
K41	41	19	2.71e-08
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	6.06e-06
Ca41	41	20	7.89e-11
Ca42	42	20	4.37e-08
Ca43	43	20	9.32e-09
Ca44	44	20	1.44e-07
Ca45	45	20	0.00e+00
Ca46	46	20	3.77e-10
Ca47	47	20	0.00e+00
Ca48	48	20	1.40e-08
Sc45	45	21	4.16e-09
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	2.38e-08
Ti47	47	22	2.17e-08
Ti48	48	22	2.19e-07
Ti49	49	22	1.74e-08
Ti50	50	22	1.91e-08
V50	50	23	9.28e-11
V51	51	23	3.81e-08
Cr50	50	24	7.38e-08
Cr51	51	24	0.00e+00
Cr52	52	24	1.49e-06
Cr53	53	24	1.72e-07
Cr54	54	24	4.68e-08
Mn55	55	25	1.31e-06
Mn56	56	25	0.00e+00
Fe54	54	26	7.10e-06
Fe55	55	26	0.00e+00
Fe56	56	26	1.16e-04
Fe57	57	26	2.83e-06
Fe58	58	26	4.97e-07
Fe59	59	26	0.00e+00
Fe60	60	26	4.90e-09
Co59	59	27	3.74e-07
Co60	60	27	0.00e+00

Ni58	58	28	4.88e-06
Ni59	59	28	4.75e-10
Ni60	60	28	1.97e-06
Ni61	61	28	9.48e-08
Ni62	62	28	2.92e-07
Ni63	63	28	0.00e+00
Ni64	64	28	8.15e-08
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	6.62e-08
Cu64	64	29	0.00e+00
Cu65	65	29	2.95e-08
Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	1.02e-07
Zn65	65	30	0.00e+00
Zn66	66	30	6.14e-08
Zn67	67	30	9.26e-09
Zn68	68	30	4.31e-08
Zn69	69	30	0.00e+00
Zn70	70	30	1.41e-09
Ga69	69	31	4.17e-09
Ga70	70	31	0.00e+00
Ga71	71	31	2.94e-09
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	5.09e-09
Ge71	71	32	0.00e+00
Ge72	72	32	6.69e-09
Ge73	73	32	1.89e-09
Ge74	74	32	9.17e-09
Ge75	75	32	0.00e+00
Ge76	76	32	1.76e-09
Ge77	77	32	0.00e+00
As75	75	33	1.26e-09
As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	1.45e-09
Se77	77	34	1.10e-09
Se78	78	34	3.80e-09
Se79	79	34	3.99e-11

Se80	80	34	7.58e-09		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	2.45e-10
Se82	82	34	1.18e-09		Nb94	94	41	0.00e+00
Br79	79	35	1.24e-09		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	1.30e-09		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	9.91e-11
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	7.11e-11
Kr80	80	36	2.93e-10		Mo95	95	42	2.52e-10
Kr81	81	36	5.43e-12		Mo96	96	42	3.98e-10
Kr82	82	36	1.77e-09		Mo97	97	42	1.68e-10
Kr83	83	36	1.50e-09		Mo98	98	42	5.16e-10
Kr84	84	36	7.65e-09		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	7.85e-11
Kr86	86	36	2.52e-09		Tc97	97	43	0.00e+00
Kr87	87	36	0.00e+00		Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00		Tc99	99	43	1.25e-11
Rb85	85	37	1.22e-09		Ru96	96	44	2.49e-11
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	5.57e-10		Ru98	98	44	8.59e-12
Rb88	88	37	0.00e+00		Ru99	99	44	9.31e-11
Sr86	86	38	8.99e-10		Ru00	100	44	2.23e-10
Sr87	87	38	6.37e-10		Ru01	101	44	1.17e-10
Sr88	88	38	1.16e-08		Ru02	102	44	3.75e-10
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	9.86e-11
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	2.73e-09		Rh03	103	45	1.37e-10
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	1.64e-10
Y92	92	39	0.00e+00		Pd05	105	46	1.20e-10
Y93	93	39	0.00e+00		Pd06	106	46	2.57e-10
Zr90	90	40	3.35e-09		Pd07	107	46	2.79e-11
Zr91	91	40	8.01e-10		Pd08	108	46	2.97e-10
Zr92	92	40	1.29e-09		Pd09	109	46	0.00e+00
Zr93	93	40	2.47e-10		Pd10	110	46	5.43e-11
Zr94	94	40	1.74e-09		Ag07	107	47	7.12e-11
Zr95	95	40	0.00e+00		Ag09	109	47	1.21e-10
Zr96	96	40	2.92e-10		Ag11	111	47	0.00e+00

Cd08	108	48	4.41e-12		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	2.13e-10
Cd10	110	48	2.15e-10		Xe29	129	54	5.63e-10
Cd11	111	48	1.12e-10		Xe30	130	54	4.60e-10
Cd12	112	48	3.20e-10		Xe31	131	54	5.02e-10
Cd13	113	48	1.18e-10		Xe32	132	54	1.25e-09
Cd14	114	48	4.47e-10		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	2.55e-10
Cd16	116	48	5.65e-11		Xe35	135	54	0.00e+00
In13	113	49	2.27e-12		Xe36	136	54	1.50e-10
In15	115	49	1.14e-10		Cs33	133	55	2.29e-10
Sn14	114	50	7.22e-12		Cs34	134	55	0.00e+00
Sn15	115	50	3.74e-12		Cs35	135	55	5.14e-11
Sn16	116	50	6.07e-10		Cs36	136	55	0.00e+00
Sn17	117	50	2.24e-10		Cs37	137	55	0.00e+00
Sn18	118	50	9.32e-10		Ba34	134	56	2.98e-10
Sn19	119	50	3.01e-10		Ba35	135	56	2.00e-10
Sn20	120	50	1.50e-09		Ba36	136	56	9.32e-10
Sn21	121	50	0.00e+00		Ba37	137	56	9.15e-10
Sn22	122	50	1.16e-10		Ba38	138	56	1.26e-08
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00
Sn24	124	50	7.08e-11		Ba40	140	56	0.00e+00
Sb21	121	51	1.44e-10		La39	139	57	1.57e-09
Sb22	122	51	0.00e+00		La40	140	57	0.00e+00
Sb23	123	51	5.85e-11		Ce40	140	58	5.41e-09
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	2.23e-10
Te22	122	52	1.78e-10		Ce43	143	58	0.00e+00
Te23	123	52	6.31e-11		Ce44	144	58	0.00e+00
Te24	124	52	3.67e-10		Pr41	141	59	5.19e-10
Te25	125	52	2.09e-10		Pr42	142	59	0.00e+00
Te26	126	52	8.53e-10		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	5.72e-10		Nd42	142	60	1.39e-09
Te30	130	52	5.44e-10		Nd43	143	60	2.39e-10
I127	127	53	4.00e-10		Nd44	144	60	7.22e-10
I128	128	53	0.00e+00		Nd45	145	60	1.45e-10
I129	129	53	1.98e-12		Nd46	146	60	6.86e-10
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	6.87e-11
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00

Nd50	150	60	1.85e-11
Pm45	145	61	0.00e+00
Pm46	146	61	0.00e+00
Pm47	147	61	0.00e+00
Pm48	148	61	0.00e+00
Pm49	149	61	0.00e+00
Pm50	150	61	0.00e+00
Pm51	151	61	0.00e+00
Sm44	144	62	2.93e-12
Sm45	145	62	0.00e+00
Sm46	146	62	0.00e+00
Sm47	147	62	8.73e-11
Sm48	148	62	2.07e-10
Sm49	149	62	4.38e-11
Sm50	150	62	1.43e-10
Sm51	151	62	0.00e+00
Sm52	152	62	1.41e-10
Sm53	153	62	0.00e+00
Sm54	154	62	4.55e-11
Eu51	151	63	3.68e-11
Eu52	152	63	0.00e+00
Eu53	153	63	4.20e-11
Eu54	154	63	0.00e+00
Eu55	155	63	0.00e+00
Eu56	156	63	0.00e+00
Eu57	157	63	0.00e+00
Gd52	152	64	1.62e-12
Gd53	153	64	0.00e+00
Gd54	154	64	3.22e-11
Gd55	155	64	4.59e-11
Gd56	156	64	1.13e-10
Gd57	157	64	6.10e-11
Gd58	158	64	2.02e-10
Gd59	159	64	0.00e+00
Gd60	160	64	4.47e-11
Tb59	159	65	6.41e-11
Tb60	160	65	0.00e+00
Tb61	161	65	0.00e+00
Dy60	160	66	6.38e-11
Dy61	161	66	5.94e-11
Dy62	162	66	1.72e-10

Dy63	163	66	8.40e-11
Dy64	164	66	2.89e-10
Dy65	165	66	0.00e+00
Dy66	166	66	0.00e+00
Ho63	163	67	1.30e-13
Ho64	164	67	0.00e+00
Ho65	165	67	9.46e-11
Ho66	166	67	0.00e+00
Er64	164	68	2.14e-11
Er65	165	68	0.00e+00
Er66	166	68	1.29e-10
Er67	167	68	6.80e-11
Er68	168	68	2.16e-10
Er69	169	68	0.00e+00
Er70	170	68	5.60e-11
Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	5.27e-11
Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00
Tm73	173	69	0.00e+00
Yb70	170	70	6.30e-11
Yb71	171	70	8.92e-11
Yb72	172	70	2.17e-10
Yb73	173	70	1.08e-10
Yb74	174	70	4.65e-10
Yb75	175	70	0.00e+00
Yb76	176	70	4.96e-11
Yb77	177	70	0.00e+00
Lu75	175	71	7.42e-11
Lu76	176	71	1.07e-11
Lu77	177	71	0.00e+00
Hf76	176	72	8.21e-11
Hf77	177	72	6.07e-11
Hf78	178	72	2.32e-10
Hf79	179	72	8.47e-11
Hf80	180	72	4.55e-10
Hf81	181	72	0.00e+00
Hf82	182	72	1.70e-11
Hf83	183	72	0.00e+00

Isotope	A	Z	YIELD
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00
Ta81	181	73	9.87e-11
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	0.00e+00
W181	181	74	0.00e+00
W182	182	74	2.07e-10
W183	183	74	1.33e-10
W184	184	74	3.35e-10
W185	185	74	0.00e+00
W186	186	74	1.14e-10
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	7.03e-11
Re86	186	75	0.00e+00
Re87	187	75	3.52e-11
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	1.25e-10
Os87	187	76	4.55e-11
Os88	188	76	2.84e-10
Os89	189	76	1.04e-10
Os90	190	76	3.50e-10
Os91	191	76	0.00e+00
Os92	192	76	2.24e-10
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	1.69e-10
Ir92	192	77	0.00e+00
Ir93	193	77	2.58e-10
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	8.69e-11
Pt93	193	78	0.00e+00
Pt94	194	78	5.05e-10
Pt95	195	78	3.43e-10
Pt96	196	78	5.77e-10
Pt97	197	78	0.00e+00

Isotope	A	Z	YIELD
Pt98	198	78	6.21e-11
Au97	197	79	2.16e-10
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	4.00e-10
Hg99	199	80	2.09e-10
Hg00	200	80	6.29e-10
Hg01	201	80	2.70e-10
Hg02	202	80	1.14e-09
Hg03	203	80	0.00e+00
Hg04	204	80	3.27e-11
Tl03	203	81	5.02e-10
Tl04	204	81	0.00e+00
Tl05	205	81	1.26e-09
Pb04	204	82	6.53e-10
Pb05	205	82	8.78e-11
Pb06	206	82	7.80e-09
Pb07	207	82	1.04e-08
Pb08	208	82	1.12e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	8.03e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 1.30; Z = 0.003000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	4.67e-01
He4	4	2	1.89e-01
C12	12	6	1.34e-03
C13	13	6	9.77e-06
C14	14	6	1.60e-11
N14	14	7	2.33e-04
N15	15	7	2.45e-07
O16	16	8	8.98e-04
O17	17	8	1.74e-06

O18	18	8	1.49e-06
F18	18	9	0.00e+00
F19	19	9	1.00e-07
Ne20	20	10	1.53e-04
Ne21	21	10	4.03e-07
Ne22	22	10	4.13e-05
Na22	22	11	0.00e+00
Na23	23	11	5.87e-06
Na24	24	11	0.00e+00
Mg24	24	12	7.72e-05
Mg25	25	12	1.01e-05
Mg26	26	12	1.16e-05
Al26	26	13	2.44e-08
Al27	27	13	8.79e-06
Si28	28	14	9.97e-05
Si29	29	14	5.25e-06
Si30	30	14	3.59e-06
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	9.43e-07
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	5.24e-05
S33	33	16	4.29e-07
S34	34	16	2.48e-06
S35	35	16	0.00e+00
S36	36	16	1.15e-08
Cl35	35	17	5.36e-07
Cl36	36	17	3.08e-11
Cl37	37	17	1.87e-07
Ar36	36	18	1.20e-05
Ar37	37	18	0.00e+00
Ar38	38	18	2.31e-06
Ar39	39	18	1.23e-13
Ar40	40	18	4.48e-09
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	4.99e-07
K40	40	19	4.33e-10
K41	41	19	3.91e-08
K42	42	19	0.00e+00

K43	43	19	0.00e+00
Ca40	40	20	9.01e-06
Ca41	41	20	5.21e-11
Ca42	42	20	6.41e-08
Ca43	43	20	1.37e-08
Ca44	44	20	2.14e-07
Ca45	45	20	0.00e+00
Ca46	46	20	4.78e-10
Ca47	47	20	0.00e+00
Ca48	48	20	2.09e-08
Sc45	45	21	6.03e-09
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	3.53e-08
Ti47	47	22	3.23e-08
Ti48	48	22	3.27e-07
Ti49	49	22	2.53e-08
Ti50	50	22	2.62e-08
V50	50	23	1.38e-10
V51	51	23	5.66e-08
Cr50	50	24	1.10e-07
Cr51	51	24	0.00e+00
Cr52	52	24	2.21e-06
Cr53	53	24	2.56e-07
Cr54	54	24	6.73e-08
Mn55	55	25	1.94e-06
Mn56	56	25	0.00e+00
Fe54	54	26	1.06e-05
Fe55	55	26	0.00e+00
Fe56	56	26	1.72e-04
Fe57	57	26	4.13e-06
Fe58	58	26	6.46e-07
Fe59	59	26	0.00e+00
Fe60	60	26	2.15e-09
Co59	59	27	5.32e-07
Co60	60	27	0.00e+00
Ni58	58	28	7.27e-06
Ni59	59	28	2.67e-10
Ni60	60	28	2.91e-06

Ni61	61	28	1.35e-07
Ni62	62	28	4.25e-07
Ni63	63	28	0.00e+00
Ni64	64	28	1.14e-07
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	9.32e-08
Cu64	64	29	0.00e+00
Cu65	65	29	4.20e-08
Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	1.51e-07
Zn65	65	30	0.00e+00
Zn66	66	30	9.03e-08
Zn67	67	30	1.36e-08
Zn68	68	30	6.30e-08
Zn69	69	30	0.00e+00
Zn70	70	30	2.10e-09
Ga69	69	31	6.01e-09
Ga70	70	31	0.00e+00
Ga71	71	31	4.16e-09
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	7.23e-09
Ge71	71	32	0.00e+00
Ge72	72	32	9.58e-09
Ge73	73	32	2.71e-09
Ge74	74	32	1.30e-08
Ge75	75	32	0.00e+00
Ge76	76	32	2.62e-09
Ge77	77	32	0.00e+00
As75	75	33	1.81e-09
As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	2.00e-09
Se77	77	34	1.58e-09
Se78	78	34	5.22e-09
Se79	79	34	2.55e-11
Se80	80	34	1.09e-08
Se81	81	34	0.00e+00
Se82	82	34	1.76e-09

Br79	79	35	1.80e-09
Br80	80	35	0.00e+00
Br81	81	35	1.85e-09
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	4.22e-10
Kr81	81	36	3.92e-12
Kr82	82	36	2.31e-09
Kr83	83	36	2.13e-09
Kr84	84	36	1.08e-08
Kr85	85	36	0.00e+00
Kr86	86	36	3.49e-09
Kr87	87	36	0.00e+00
Kr88	88	36	0.00e+00
Rb85	85	37	1.70e-09
Rb86	86	37	0.00e+00
Rb87	87	37	7.31e-10
Rb88	88	37	0.00e+00
Sr86	86	38	1.07e-09
Sr87	87	38	7.71e-10
Sr88	88	38	1.33e-08
Sr89	89	38	0.00e+00
Sr90	90	38	0.00e+00
Sr91	91	38	0.00e+00
Sr92	92	38	0.00e+00
Y89	89	39	3.18e-09
Y90	90	39	0.00e+00
Y91	91	39	0.00e+00
Y92	92	39	0.00e+00
Y93	93	39	0.00e+00
Zr90	90	40	4.00e-09
Zr91	91	40	9.35e-10
Zr92	92	40	1.51e-09
Zr93	93	40	2.41e-10
Zr94	94	40	1.99e-09
Zr95	95	40	0.00e+00
Zr96	96	40	3.14e-10
Zr97	97	40	0.00e+00
Nb93	93	41	3.38e-10
Nb94	94	41	0.00e+00

Nb95	95	41	0.00e+00		Cd11	111	48	1.43e-10
Nb96	96	41	0.00e+00		Cd12	112	48	3.82e-10
Nb97	97	41	0.00e+00		Cd13	113	48	1.49e-10
Mo92	92	42	1.48e-10		Cd14	114	48	5.26e-10
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	9.99e-11		Cd16	116	48	7.66e-11
Mo95	95	42	3.04e-10		In13	113	49	3.39e-12
Mo96	96	42	4.48e-10		In15	115	49	1.42e-10
Mo97	97	42	1.96e-10		Sn14	114	50	1.07e-11
Mo98	98	42	5.94e-10		Sn15	115	50	5.57e-12
Mo99	99	42	0.00e+00		Sn16	116	50	7.07e-10
Mo00	100	42	1.16e-10		Sn17	117	50	2.74e-10
Tc97	97	43	0.00e+00		Sn18	118	50	1.09e-09
Tc98	98	43	0.00e+00		Sn19	119	50	3.57e-10
Tc99	99	43	1.08e-11		Sn20	120	50	1.72e-09
Ru96	96	44	3.72e-11		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	1.40e-10
Ru98	98	44	1.28e-11		Sn23	123	50	0.00e+00
Ru99	99	44	1.23e-10		Sn24	124	50	1.04e-10
Ru00	100	44	2.55e-10		Sb21	121	51	1.77e-10
Ru01	101	44	1.58e-10		Sb22	122	51	0.00e+00
Ru02	102	44	4.58e-10		Sb23	123	51	8.02e-11
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	1.45e-10		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	2.06e-10
Ru06	106	44	0.00e+00		Te23	123	52	7.33e-11
Rh03	103	45	1.86e-10		Te24	124	52	4.08e-10
Rh05	105	45	0.00e+00		Te25	125	52	2.64e-10
Pd04	104	46	1.93e-10		Te26	126	52	1.01e-09
Pd05	105	46	1.66e-10		Te27	127	52	0.00e+00
Pd06	106	46	3.18e-10		Te28	128	52	8.25e-10
Pd07	107	46	2.92e-11		Te30	130	52	8.10e-10
Pd08	108	46	3.56e-10		I127	127	53	5.63e-10
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	7.72e-11		I129	129	53	1.85e-12
Ag07	107	47	1.06e-10		I130	130	53	0.00e+00
Ag09	109	47	1.56e-10		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	6.42e-12		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	2.38e-10
Cd10	110	48	2.48e-10		Xe29	129	54	8.06e-10

Xe30	130	54	5.12e-10		Pm47	147	61	0.00e+00
Xe31	131	54	7.00e-10		Pm48	148	61	0.00e+00
Xe32	132	54	1.52e-09		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	3.37e-10		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	4.37e-12
Xe36	136	54	2.22e-10		Sm45	145	62	0.00e+00
Cs33	133	55	2.94e-10		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	8.66e-11
Cs35	135	55	6.29e-11		Sm48	148	62	1.98e-10
Cs36	136	55	0.00e+00		Sm49	149	62	4.82e-11
Cs37	137	55	0.00e+00		Sm50	150	62	1.33e-10
Ba34	134	56	3.13e-10		Sm51	151	62	0.00e+00
Ba35	135	56	2.46e-10		Sm52	152	62	1.36e-10
Ba36	136	56	1.02e-09		Sm53	153	62	0.00e+00
Ba37	137	56	1.02e-09		Sm54	154	62	5.31e-11
Ba38	138	56	1.30e-08		Eu51	151	63	4.36e-11
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	4.80e-11
La39	139	57	1.61e-09		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	5.40e-09		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	1.75e-10		Gd52	152	64	2.33e-12
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	3.21e-11
Pr41	141	59	5.23e-10		Gd55	155	64	5.24e-11
Pr42	142	59	0.00e+00		Gd56	156	64	1.22e-10
Pr43	143	59	0.00e+00		Gd57	157	64	7.02e-11
Pr45	145	59	0.00e+00		Gd58	158	64	2.09e-10
Nd42	142	60	1.39e-09		Gd59	159	64	0.00e+00
Nd43	143	60	2.38e-10		Gd60	160	64	5.60e-11
Nd44	144	60	7.16e-10		Tb59	159	65	7.31e-11
Nd45	145	60	1.48e-10		Tb60	160	65	0.00e+00
Nd46	146	60	6.72e-10		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	6.12e-11
Nd48	148	60	7.42e-11		Dy61	161	66	7.20e-11
Nd49	149	60	0.00e+00		Dy62	162	66	1.78e-10
Nd50	150	60	2.72e-11		Dy63	163	66	9.99e-11
Pm45	145	61	0.00e+00		Dy64	164	66	2.81e-10
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00

Dy66	166	66	0.00e+00		Ta81	181	73	9.26e-11
Ho63	163	67	1.14e-13		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta83	183	73	0.00e+00
Ho65	165	67	1.04e-10		Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00		W180	180	74	1.07e-13
Er64	164	68	1.81e-11		W181	181	74	0.00e+00
Er65	165	68	0.00e+00		W182	182	74	2.07e-10
Er66	166	68	1.39e-10		W183	183	74	1.23e-10
Er67	167	68	7.66e-11		W184	184	74	2.92e-10
Er68	168	68	2.02e-10		W185	185	74	0.00e+00
Er69	169	68	0.00e+00		W186	186	74	1.05e-10
Er70	170	68	5.74e-11		W187	187	74	0.00e+00
Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	6.34e-11
Tm69	169	69	5.44e-11		Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00		Re87	187	75	3.52e-11
Tm71	171	69	0.00e+00		Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00		Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00		Os86	186	76	1.18e-10
Yb70	170	70	5.72e-11		Os87	187	76	5.05e-11
Yb71	171	70	8.40e-11		Os88	188	76	2.90e-10
Yb72	172	70	2.12e-10		Os89	189	76	1.27e-10
Yb73	173	70	1.09e-10		Os90	190	76	3.63e-10
Yb74	174	70	4.40e-10		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	2.82e-10
Yb76	176	70	5.48e-11		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	7.55e-11		Ir91	191	77	2.21e-10
Lu76	176	71	2.85e-11		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	3.54e-10
Hf76	176	72	2.85e-11		Ir94	194	77	0.00e+00
Hf77	177	72	6.38e-11		Ir95	195	77	0.00e+00
Hf78	178	72	2.25e-10		Pt92	192	78	8.91e-11
Hf79	179	72	8.36e-11		Pt93	193	78	0.00e+00
Hf80	180	72	4.28e-10		Pt94	194	78	5.82e-10
Hf81	181	72	0.00e+00		Pt95	195	78	4.38e-10
Hf82	182	72	1.67e-11		Pt96	196	78	5.88e-10
Hf83	183	72	0.00e+00		Pt97	197	78	0.00e+00
Hf84	184	72	0.00e+00		Pt98	198	78	8.25e-11
Ta79	179	73	0.00e+00		Au97	197	79	2.42e-10
Ta80	180	73	0.00e+00		Au98	198	79	0.00e+00

Isotope	A	Z	YIELD
Au99	199	79	0.00e+00
Hg98	198	80	3.50e-10
Hg99	199	80	1.99e-10
Hg00	200	80	6.01e-10
Hg01	201	80	2.62e-10
Hg02	202	80	1.10e-09
Hg03	203	80	0.00e+00
Hg04	204	80	3.03e-11
Tl03	203	81	4.63e-10
Tl04	204	81	0.00e+00
Tl05	205	81	1.21e-09
Pb04	204	82	5.87e-10
Pb05	205	82	9.45e-11
Pb06	206	82	6.83e-09
Pb07	207	82	8.55e-09
Pb08	208	82	3.44e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	2.74e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M_0 = 1.30; Z = 0.006000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [M_0]
H	1	1	4.77e-01
He4	4	2	1.93e-01
C12	12	6	1.18e-03
C13	13	6	2.02e-05
C14	14	6	1.28e-11
N14	14	7	4.49e-04
N15	15	7	5.29e-07
O16	16	8	1.79e-03
O17	17	8	2.10e-06
O18	18	8	3.16e-06
F18	18	9	0.00e+00
F19	19	9	1.47e-07

Isotope	A	Z	YIELD
Ne20	20	10	3.14e-04
Ne21	21	10	8.01e-07
Ne22	22	10	4.82e-05
Na22	22	11	0.00e+00
Na23	23	11	1.14e-05
Na24	24	11	0.00e+00
Mg24	24	12	1.57e-04
Mg25	25	12	2.06e-05
Mg26	26	12	2.37e-05
Al26	26	13	3.11e-08
Al27	27	13	1.78e-05
Si28	28	14	2.04e-04
Si29	29	14	1.07e-05
Si30	30	14	7.34e-06
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	1.92e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	1.07e-04
S33	33	16	8.76e-07
S34	34	16	5.07e-06
S35	35	16	0.00e+00
S36	36	16	2.27e-08
Cl35	35	17	1.10e-06
Cl36	36	17	4.30e-11
Cl37	37	17	3.79e-07
Ar36	36	18	2.46e-05
Ar37	37	18	0.00e+00
Ar38	38	18	4.73e-06
Ar39	39	18	1.91e-13
Ar40	40	18	8.78e-09
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	1.02e-06
K40	40	19	5.73e-10
K41	41	19	7.89e-08
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	1.84e-05
Ca41	41	20	6.45e-11

Ca42	42	20	1.31e-07		Ni64	64	28	2.31e-07
Ca43	43	20	2.79e-08		Ni65	65	28	0.00e+00
Ca44	44	20	4.37e-07		Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00		Cu63	63	29	1.87e-07
Ca46	46	20	9.63e-10		Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00		Cu65	65	29	8.50e-08
Ca48	48	20	4.27e-08		Cu66	66	29	0.00e+00
Sc45	45	21	1.22e-08		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	3.10e-07
Sc47	47	21	0.00e+00		Zn65	65	30	0.00e+00
Sc48	48	21	0.00e+00		Zn66	66	30	1.84e-07
Sc49	49	21	0.00e+00		Zn67	67	30	2.76e-08
Ti46	46	22	7.21e-08		Zn68	68	30	1.28e-07
Ti47	47	22	6.62e-08		Zn69	69	30	0.00e+00
Ti48	48	22	6.69e-07		Zn70	70	30	4.31e-09
Ti49	49	22	5.11e-08		Ga69	69	31	1.22e-08
Ti50	50	22	5.14e-08		Ga70	70	31	0.00e+00
V50	50	23	2.84e-10		Ga71	71	31	8.44e-09
V51	51	23	1.16e-07		Ga72	72	31	0.00e+00
Cr50	50	24	2.26e-07		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	1.47e-08
Cr52	52	24	4.53e-06		Ge71	71	32	0.00e+00
Cr53	53	24	5.23e-07		Ge72	72	32	1.95e-08
Cr54	54	24	1.36e-07		Ge73	73	32	5.51e-09
Mn55	55	25	3.96e-06		Ge74	74	32	2.64e-08
Mn56	56	25	0.00e+00		Ge75	75	32	0.00e+00
Fe54	54	26	2.17e-05		Ge76	76	32	5.36e-09
Fe55	55	26	0.00e+00		Ge77	77	32	0.00e+00
Fe56	56	26	3.53e-04		As75	75	33	3.68e-09
Fe57	57	26	8.39e-06		As76	76	33	0.00e+00
Fe58	58	26	1.26e-06		As77	77	33	0.00e+00
Fe59	59	26	0.00e+00		Se76	76	34	4.06e-09
Fe60	60	26	4.05e-09		Se77	77	34	3.22e-09
Co59	59	27	1.07e-06		Se78	78	34	1.06e-08
Co60	60	27	0.00e+00		Se79	79	34	5.40e-11
Ni58	58	28	1.49e-05		Se80	80	34	2.22e-08
Ni59	59	28	2.97e-10		Se81	81	34	0.00e+00
Ni60	60	28	5.96e-06		Se82	82	34	3.60e-09
Ni61	61	28	2.71e-07		Br79	79	35	3.69e-09
Ni62	62	28	8.63e-07		Br80	80	35	0.00e+00
Ni63	63	28	0.00e+00		Br81	81	35	3.78e-09

Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	8.46e-10
Kr81	81	36	5.00e-12
Kr82	82	36	4.69e-09
Kr83	83	36	4.35e-09
Kr84	84	36	2.21e-08
Kr85	85	36	0.00e+00
Kr86	86	36	7.11e-09
Kr87	87	36	0.00e+00
Kr88	88	36	0.00e+00
Rb85	85	37	3.51e-09
Rb86	86	37	0.00e+00
Rb87	87	37	1.55e-09
Rb88	88	37	0.00e+00
Sr86	86	38	2.13e-09
Sr87	87	38	1.54e-09
Sr88	88	38	2.63e-08
Sr89	89	38	0.00e+00
Sr90	90	38	0.00e+00
Sr91	91	38	0.00e+00
Sr92	92	38	0.00e+00
Y89	89	39	6.31e-09
Y90	90	39	0.00e+00
Y91	91	39	0.00e+00
Y92	92	39	0.00e+00
Y93	93	39	0.00e+00
Zr90	90	40	7.79e-09
Zr91	91	40	1.81e-09
Zr92	92	40	2.92e-09
Zr93	93	40	4.55e-10
Zr94	94	40	3.73e-09
Zr95	95	40	0.00e+00
Zr96	96	40	6.77e-10
Zr97	97	40	0.00e+00
Nb93	93	41	6.65e-10
Nb94	94	41	0.00e+00
Nb95	95	41	0.00e+00
Nb96	96	41	0.00e+00
Nb97	97	41	0.00e+00

Mo92	92	42	3.03e-10
Mo93	93	42	0.00e+00
Mo94	94	42	2.00e-10
Mo95	95	42	5.89e-10
Mo96	96	42	8.21e-10
Mo97	97	42	3.70e-10
Mo98	98	42	1.10e-09
Mo99	99	42	0.00e+00
Mo00	100	42	2.37e-10
Tc97	97	43	0.00e+00
Tc98	98	43	0.00e+00
Tc99	99	43	2.03e-11
Ru96	96	44	7.62e-11
Ru97	97	44	0.00e+00
Ru98	98	44	2.62e-11
Ru99	99	44	2.38e-10
Ru00	100	44	4.59e-10
Ru01	101	44	3.10e-10
Ru02	102	44	8.40e-10
Ru03	103	44	0.00e+00
Ru04	104	44	2.95e-10
Ru05	105	44	0.00e+00
Ru06	106	44	0.00e+00
Rh03	103	45	3.63e-10
Rh05	105	45	0.00e+00
Pd04	104	46	3.42e-10
Pd05	105	46	3.26e-10
Pd06	106	46	5.85e-10
Pd07	107	46	4.78e-11
Pd08	108	46	6.49e-10
Pd09	109	46	0.00e+00
Pd10	110	46	1.57e-10
Ag07	107	47	2.16e-10
Ag09	109	47	2.95e-10
Ag11	111	47	0.00e+00
Cd08	108	48	1.27e-11
Cd09	109	48	0.00e+00
Cd10	110	48	4.41e-10
Cd11	111	48	2.72e-10
Cd12	112	48	6.94e-10
Cd13	113	48	2.80e-10

Cd14	114	48	9.43e-10
Cd15	115	48	0.00e+00
Cd16	116	48	1.56e-10
In13	113	49	6.94e-12
In15	115	49	2.65e-10
Sn14	114	50	2.20e-11
Sn15	115	50	1.14e-11
Sn16	116	50	1.25e-09
Sn17	117	50	5.02e-10
Sn18	118	50	1.92e-09
Sn19	119	50	6.37e-10
Sn20	120	50	2.96e-09
Sn21	121	50	0.00e+00
Sn22	122	50	2.74e-10
Sn23	123	50	0.00e+00
Sn24	124	50	2.13e-10
Sb21	121	51	3.21e-10
Sb22	122	51	0.00e+00
Sb23	123	51	1.61e-10
Sb24	124	51	0.00e+00
Sb25	125	51	0.00e+00
Te22	122	52	3.51e-10
Te23	123	52	1.24e-10
Te24	124	52	6.83e-10
Te25	125	52	4.91e-10
Te26	126	52	1.76e-09
Te27	127	52	0.00e+00
Te28	128	52	1.65e-09
Te30	130	52	1.66e-09
I127	127	53	1.11e-09
I128	128	53	0.00e+00
I129	129	53	2.15e-12
I130	130	53	0.00e+00
I131	131	53	0.00e+00
I132	132	53	0.00e+00
I133	133	53	0.00e+00
Xe28	128	54	3.88e-10
Xe29	129	54	1.61e-09
Xe30	130	54	8.26e-10
Xe31	131	54	1.37e-09
Xe32	132	54	2.64e-09

Xe33	133	54	0.00e+00
Xe34	134	54	6.62e-10
Xe35	135	54	0.00e+00
Xe36	136	54	4.54e-10
Cs33	133	55	5.38e-10
Cs34	134	55	0.00e+00
Cs35	135	55	1.13e-10
Cs36	136	55	0.00e+00
Cs37	137	55	0.00e+00
Ba34	134	56	4.72e-10
Ba35	135	56	4.37e-10
Ba36	136	56	1.57e-09
Ba37	137	56	1.62e-09
Ba38	138	56	1.60e-08
Ba39	139	56	0.00e+00
Ba40	140	56	0.00e+00
La39	139	57	1.95e-09
La40	140	57	0.00e+00
Ce40	140	58	5.68e-09
Ce41	141	58	0.00e+00
Ce42	142	58	2.35e-10
Ce43	143	58	0.00e+00
Ce44	144	58	0.00e+00
Pr41	141	59	5.88e-10
Pr42	142	59	0.00e+00
Pr43	143	59	0.00e+00
Pr45	145	59	0.00e+00
Nd42	142	60	1.37e-09
Nd43	143	60	2.71e-10
Nd44	144	60	7.47e-10
Nd45	145	60	1.71e-10
Nd46	146	60	6.64e-10
Nd47	147	60	0.00e+00
Nd48	148	60	9.69e-11
Nd49	149	60	0.00e+00
Nd50	150	60	5.54e-11
Pm45	145	61	0.00e+00
Pm46	146	61	0.00e+00
Pm47	147	61	0.00e+00
Pm48	148	61	0.00e+00
Pm49	149	61	0.00e+00

Pm50	150	61	0.00e+00	Ho65	165	67	1.54e-10
Pm51	151	61	0.00e+00	Ho66	166	67	0.00e+00
Sm44	144	62	8.96e-12	Er64	164	68	1.61e-11
Sm45	145	62	0.00e+00	Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00	Er66	166	68	1.82e-10
Sm47	147	62	9.62e-11	Er67	167	68	1.08e-10
Sm48	148	62	1.85e-10	Er68	168	68	2.12e-10
Sm49	149	62	6.44e-11	Er69	169	68	0.00e+00
Sm50	150	62	1.21e-10	Er70	170	68	7.93e-11
Sm51	151	62	0.00e+00	Er71	171	68	0.00e+00
Sm52	152	62	1.60e-10	Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00	Tm69	169	69	7.23e-11
Sm54	154	62	8.69e-11	Tm70	170	69	0.00e+00
Eu51	151	63	6.80e-11	Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00	Tm72	172	69	0.00e+00
Eu53	153	63	7.52e-11	Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00	Yb70	170	70	5.46e-11
Eu55	155	63	0.00e+00	Yb71	171	70	9.56e-11
Eu56	156	63	0.00e+00	Yb72	172	70	2.20e-10
Eu57	157	63	0.00e+00	Yb73	173	70	1.20e-10
Gd52	152	64	2.78e-12	Yb74	174	70	4.07e-10
Gd53	153	64	0.00e+00	Yb75	175	70	0.00e+00
Gd54	154	64	3.37e-11	Yb76	176	70	7.02e-11
Gd55	155	64	7.89e-11	Yb77	177	70	0.00e+00
Gd56	156	64	1.52e-10	Lu75	175	71	8.70e-11
Gd57	157	64	9.66e-11	Lu76	176	71	2.21e-11
Gd58	158	64	2.30e-10	Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00	Hf76	176	72	2.93e-11
Gd60	160	64	1.00e-10	Hf77	177	72	7.61e-11
Tb59	159	65	1.03e-10	Hf78	178	72	2.14e-10
Tb60	160	65	0.00e+00	Hf79	179	72	8.39e-11
Tb61	161	65	0.00e+00	Hf80	180	72	3.71e-10
Dy60	160	66	5.58e-11	Hf81	181	72	0.00e+00
Dy61	161	66	1.14e-10	Hf82	182	72	1.57e-11
Dy62	162	66	2.17e-10	Hf83	183	72	0.00e+00
Dy63	163	66	1.55e-10	Hf84	184	72	0.00e+00
Dy64	164	66	3.15e-10	Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00	Ta80	180	73	0.00e+00
Dy66	166	66	0.00e+00	Ta81	181	73	8.60e-11
Ho63	163	67	1.11e-13	Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00	Ta83	183	73	0.00e+00

Isotope	A	Z	
Ta84	184	73	0.00e+00
W180	180	74	2.19e-13
W181	181	74	0.00e+00
W182	182	74	1.86e-10
W183	183	74	1.04e-10
W184	184	74	2.47e-10
W185	185	74	0.00e+00
W186	186	74	1.16e-10
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	6.32e-11
Re86	186	75	0.00e+00
Re87	187	75	4.44e-11
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	1.01e-10
Os87	187	76	6.19e-11
Os88	188	76	2.95e-10
Os89	189	76	1.96e-10
Os90	190	76	4.26e-10
Os91	191	76	0.00e+00
Os92	192	76	4.76e-10
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	3.92e-10
Ir92	192	77	0.00e+00
Ir93	193	77	6.53e-10
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	7.67e-11
Pt93	193	78	0.00e+00
Pt94	194	78	8.49e-10
Pt95	195	78	7.64e-10
Pt96	196	78	7.52e-10
Pt97	197	78	0.00e+00
Pt98	198	78	1.57e-10
Au97	197	79	3.67e-10
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	2.86e-10
Hg99	199	80	2.09e-10

Isotope	A	Z	
Hg00	200	80	5.12e-10
Hg01	201	80	2.32e-10
Hg02	202	80	8.49e-10
Hg03	203	80	0.00e+00
Hg04	204	80	5.03e-11
Tl03	203	81	3.49e-10
Tl04	204	81	0.00e+00
Tl05	205	81	8.89e-10
Pb04	204	82	4.37e-10
Pb05	205	82	5.93e-11
Pb06	206	82	3.81e-09
Pb07	207	82	3.44e-09
Pb08	208	82	6.31e-09
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	2.39e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M$_\odot$ = 1.30; Z = 0.008000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [M$_\odot$]
H	1	1	4.70e-01
He4	4	2	1.93e-01
C12	12	6	7.96e-04
C13	13	6	2.69e-05
C14	14	6	4.03e-12
N14	14	7	5.81e-04
N15	15	7	7.16e-07
O16	16	8	2.35e-03
O17	17	8	2.15e-06
O18	18	8	4.25e-06
F18	18	9	0.00e+00
F19	19	9	1.69e-07
Ne20	20	10	4.15e-04
Ne21	21	10	1.05e-06
Ne22	22	10	3.89e-05

Na22	22	11	0.00e+00		Ca45	45	20	0.00e+00
Na23	23	11	1.46e-05		Ca46	46	20	1.18e-09
Na24	24	11	0.00e+00		Ca47	47	20	0.00e+00
Mg24	24	12	2.08e-04		Ca48	48	20	5.65e-08
Mg25	25	12	2.73e-05		Sc45	45	21	1.60e-08
Mg26	26	12	3.13e-05		Sc46	46	21	0.00e+00
Al26	26	13	2.59e-08		Sc47	47	21	0.00e+00
Al27	27	13	2.35e-05		Sc48	48	21	0.00e+00
Si28	28	14	2.70e-04		Sc49	49	21	0.00e+00
Si29	29	14	1.42e-05		Ti46	46	22	9.51e-08
Si30	30	14	9.68e-06		Ti47	47	22	8.75e-08
Si31	31	14	0.00e+00		Ti48	48	22	8.86e-07
Si32	32	14	0.00e+00		Ti49	49	22	6.67e-08
P31	31	15	2.52e-06		Ti50	50	22	6.54e-08
P32	32	15	0.00e+00		V50	50	23	3.76e-10
P33	33	15	0.00e+00		V51	51	23	1.53e-07
S32	32	16	1.42e-04		Cr50	50	24	2.99e-07
S33	33	16	1.16e-06		Cr51	51	24	0.00e+00
S34	34	16	6.69e-06		Cr52	52	24	6.00e-06
S35	35	16	0.00e+00		Cr53	53	24	6.93e-07
S36	36	16	2.88e-08		Cr54	54	24	1.77e-07
Cl35	35	17	1.45e-06		Mn55	55	25	5.24e-06
Cl36	36	17	1.52e-11		Mn56	56	25	0.00e+00
Cl37	37	17	4.93e-07		Fe54	54	26	2.87e-05
Ar36	36	18	3.25e-05		Fe55	55	26	0.00e+00
Ar37	37	18	0.00e+00		Fe56	56	26	4.67e-04
Ar38	38	18	6.25e-06		Fe57	57	26	1.10e-05
Ar39	39	18	0.00e+00		Fe58	58	26	1.52e-06
Ar40	40	18	1.07e-08		Fe59	59	26	0.00e+00
Ar41	41	18	0.00e+00		Fe60	60	26	6.53e-10
Ar42	42	18	0.00e+00		Co59	59	27	1.39e-06
K39	39	19	1.35e-06		Co60	60	27	0.00e+00
K40	40	19	3.18e-10		Ni58	58	28	1.97e-05
K41	41	19	1.03e-07		Ni59	59	28	1.17e-10
K42	42	19	0.00e+00		Ni60	60	28	7.86e-06
K43	43	19	0.00e+00		Ni61	61	28	3.50e-07
Ca40	40	20	2.44e-05		Ni62	62	28	1.13e-06
Ca41	41	20	2.04e-11		Ni63	63	28	0.00e+00
Ca42	42	20	1.71e-07		Ni64	64	28	2.97e-07
Ca43	43	20	3.66e-08		Ni65	65	28	0.00e+00
Ca44	44	20	5.78e-07		Ni66	66	28	0.00e+00

Cu63	63	29	2.40e-07		Kr80	80	36	1.07e-09
Cu64	64	29	0.00e+00		Kr81	81	36	6.24e-13
Cu65	65	29	1.10e-07		Kr82	82	36	5.63e-09
Cu66	66	29	0.00e+00		Kr83	83	36	5.55e-09
Cu67	67	29	0.00e+00		Kr84	84	36	2.78e-08
Zn64	64	30	4.09e-07		Kr85	85	36	0.00e+00
Zn65	65	30	0.00e+00		Kr86	86	36	8.65e-09
Zn66	66	30	2.42e-07		Kr87	87	36	0.00e+00
Zn67	67	30	3.62e-08		Kr88	88	36	0.00e+00
Zn68	68	30	1.68e-07		Rb85	85	37	4.33e-09
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	5.70e-09		Rb87	87	37	1.74e-09
Ga69	69	31	1.58e-08		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	2.21e-09
Ga71	71	31	1.08e-08		Sr87	87	38	1.66e-09
Ga72	72	31	0.00e+00		Sr88	88	38	2.11e-08
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	1.88e-08		Sr90	90	38	0.00e+00
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	2.52e-08		Sr92	92	38	0.00e+00
Ge73	73	32	7.11e-09		Y89	89	39	5.04e-09
Ge74	74	32	3.37e-08		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	7.10e-09		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	4.75e-09		Zr90	90	40	6.44e-09
As76	76	33	0.00e+00		Zr91	91	40	1.45e-09
As77	77	33	0.00e+00		Zr92	92	40	2.26e-09
Se76	76	34	5.05e-09		Zr93	93	40	1.11e-10
Se77	77	34	4.14e-09		Zr94	94	40	2.50e-09
Se78	78	34	1.32e-08		Zr95	95	40	0.00e+00
Se79	79	34	1.65e-11		Zr96	96	40	4.35e-10
Se80	80	34	2.84e-08		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	7.64e-10
Se82	82	34	4.76e-09		Nb94	94	41	0.00e+00
Br79	79	35	4.78e-09		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	4.79e-09		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	4.01e-10
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	2.57e-10

Mo95	95	42	5.10e-10		In13	113	49	9.20e-12
Mo96	96	42	5.77e-10		In15	115	49	2.35e-10
Mo97	97	42	3.09e-10		Sn14	114	50	2.91e-11
Mo98	98	42	8.16e-10		Sn15	115	50	1.51e-11
Mo99	99	42	0.00e+00		Sn16	116	50	8.31e-10
Mo00	100	42	2.92e-10		Sn17	117	50	4.05e-10
Tc97	97	43	0.00e+00		Sn18	118	50	1.36e-09
Tc98	98	43	0.00e+00		Sn19	119	50	4.74e-10
Tc99	99	43	4.03e-12		Sn20	120	50	1.93e-09
Ru96	96	44	1.01e-10		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	2.48e-10
Ru98	98	44	3.48e-11		Sn23	123	50	0.00e+00
Ru99	99	44	2.52e-10		Sn24	124	50	2.79e-10
Ru00	100	44	2.98e-10		Sb21	121	51	2.71e-10
Ru01	101	44	3.41e-10		Sb22	122	51	0.00e+00
Ru02	102	44	6.98e-10		Sb23	123	51	1.89e-10
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	3.74e-10		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	2.10e-10
Ru06	106	44	0.00e+00		Te23	123	52	7.35e-11
Rh03	103	45	4.06e-10		Te24	124	52	3.98e-10
Rh05	105	45	0.00e+00		Te25	125	52	4.79e-10
Pd04	104	46	2.25e-10		Te26	126	52	1.38e-09
Pd05	105	46	3.71e-10		Te27	127	52	0.00e+00
Pd06	106	46	5.03e-10		Te28	128	52	2.05e-09
Pd07	107	46	1.18e-11		Te30	130	52	2.20e-09
Pd08	108	46	5.14e-10		I127	127	53	1.35e-09
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	1.94e-10		I129	129	53	5.69e-13
Ag07	107	47	2.84e-10		I130	130	53	0.00e+00
Ag09	109	47	2.91e-10		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	1.60e-11		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	2.17e-10
Cd10	110	48	2.92e-10		Xe29	129	54	2.01e-09
Cd11	111	48	2.58e-10		Xe30	130	54	4.46e-10
Cd12	112	48	5.34e-10		Xe31	131	54	1.64e-09
Cd13	113	48	2.55e-10		Xe32	132	54	2.20e-09
Cd14	114	48	6.70e-10		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	7.57e-10
Cd16	116	48	1.60e-10		Xe35	135	54	0.00e+00

Xe36	136	54	6.00e-10		Sm45	145	62	0.00e+00
Cs33	133	55	5.39e-10		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	6.47e-11
Cs35	135	55	3.20e-11		Sm48	148	62	6.00e-11
Cs36	136	55	0.00e+00		Sm49	149	62	5.76e-11
Cs37	137	55	0.00e+00		Sm50	150	62	4.01e-11
Ba34	134	56	2.20e-10		Sm51	151	62	0.00e+00
Ba35	135	56	4.38e-10		Sm52	152	62	1.18e-10
Ba36	136	56	7.37e-10		Sm53	153	62	0.00e+00
Ba37	137	56	9.54e-10		Sm54	154	62	9.62e-11
Ba38	138	56	6.61e-09		Eu51	151	63	7.34e-11
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	8.13e-11
La39	139	57	8.56e-10		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	2.08e-09		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	2.14e-10		Gd52	152	64	1.18e-12
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	1.42e-11
Pr41	141	59	3.07e-10		Gd55	155	64	8.13e-11
Pr42	142	59	0.00e+00		Gd56	156	64	1.17e-10
Pr43	143	59	0.00e+00		Gd57	157	64	8.82e-11
Pr45	145	59	0.00e+00		Gd58	158	64	1.49e-10
Nd42	142	60	4.57e-10		Gd59	159	64	0.00e+00
Nd43	143	60	1.70e-10		Gd60	160	64	1.22e-10
Nd44	144	60	3.57e-10		Tb59	159	65	1.01e-10
Nd45	145	60	1.15e-10		Tb60	160	65	0.00e+00
Nd46	146	60	2.72e-10		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	1.97e-11
Nd48	148	60	7.99e-11		Dy61	161	66	1.26e-10
Nd49	149	60	0.00e+00		Dy62	162	66	1.77e-10
Nd50	150	60	7.31e-11		Dy63	163	66	1.68e-10
Pm45	145	61	0.00e+00		Dy64	164	66	2.06e-10
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	0.00e+00
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	1.57e-10
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	1.19e-11		Er64	164	68	8.00e-12

Er65	165	68	0.00e+00		W182	182	74	7.64e-11
Er66	166	68	1.56e-10		W183	183	74	4.19e-11
Er67	167	68	1.05e-10		W184	184	74	9.27e-11
Er68	168	68	1.32e-10		W185	185	74	0.00e+00
Er69	169	68	0.00e+00		W186	186	74	7.72e-11
Er70	170	68	7.13e-11		W187	187	74	0.00e+00
Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	4.10e-11
Tm69	169	69	6.77e-11		Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00		Re87	187	75	3.86e-11
Tm71	171	69	0.00e+00		Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00		Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00		Os86	186	76	2.79e-11
Yb70	170	70	1.78e-11		Os87	187	76	5.06e-11
Yb71	171	70	6.86e-11		Os88	188	76	1.89e-10
Yb72	172	70	1.12e-10		Os89	189	76	2.19e-10
Yb73	173	70	7.89e-11		Os90	190	76	3.66e-10
Yb74	174	70	1.72e-10		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	5.60e-10
Yb76	176	70	6.23e-11		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	6.67e-11		Ir91	191	77	4.82e-10
Lu76	176	71	3.14e-12		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	8.19e-10
Hf76	176	72	1.83e-11		Ir94	194	77	0.00e+00
Hf77	177	72	6.14e-11		Ir95	195	77	0.00e+00
Hf78	178	72	1.00e-10		Pt92	192	78	2.58e-11
Hf79	179	72	4.79e-11		Pt93	193	78	0.00e+00
Hf80	180	72	1.38e-10		Pt94	194	78	9.15e-10
Hf81	181	72	0.00e+00		Pt95	195	78	9.34e-10
Hf82	182	72	2.37e-12		Pt96	196	78	7.15e-10
Hf83	183	72	0.00e+00		Pt97	197	78	0.00e+00
Hf84	184	72	0.00e+00		Pt98	198	78	2.00e-10
Ta79	179	73	0.00e+00		Au97	197	79	4.06e-10
Ta80	180	73	0.00e+00		Au98	198	79	0.00e+00
Ta81	181	73	4.45e-11		Au99	199	79	0.00e+00
Ta82	182	73	0.00e+00		Hg98	198	80	1.03e-10
Ta83	183	73	0.00e+00		Hg99	199	80	1.54e-10
Ta84	184	73	0.00e+00		Hg00	200	80	2.28e-10
W180	180	74	2.90e-13		Hg01	201	80	1.26e-10
W181	181	74	0.00e+00		Hg02	202	80	3.09e-10

Isotope	A	Z	YIELD
Hg03	203	80	0.00e+00
Hg04	204	80	6.15e-11
Tl03	203	81	1.34e-10
Tl04	204	81	0.00e+00
Tl05	205	81	3.22e-10
Pb04	204	82	1.58e-10
Pb05	205	82	4.50e-12
Pb06	206	82	1.44e-09
Pb07	207	82	1.53e-09
Pb08	208	82	4.23e-09
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	3.02e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 1.30; Z = 0.010000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	4.73e-01
He4	4	2	1.95e-01
C12	12	6	8.92e-04
C13	13	6	3.40e-05
C14	14	6	2.03e-12
N14	14	7	7.17e-04
N15	15	7	9.25e-07
O16	16	8	2.97e-03
O17	17	8	2.31e-06
O18	18	8	5.44e-06
F18	18	9	0.00e+00
F19	19	9	2.11e-07
Ne20	20	10	5.24e-04
Ne21	21	10	1.32e-06
Ne22	22	10	4.59e-05
Na22	22	11	0.00e+00
Na23	23	11	1.82e-05
Na24	24	11	0.00e+00

Isotope	A	Z	YIELD
Mg24	24	12	2.62e-04
Mg25	25	12	3.44e-05
Mg26	26	12	3.95e-05
Al26	26	13	2.85e-08
Al27	27	13	2.96e-05
Si28	28	14	3.40e-04
Si29	29	14	1.79e-05
Si30	30	14	1.22e-05
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	3.17e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	1.79e-04
S33	33	16	1.46e-06
S34	34	16	8.43e-06
S35	35	16	0.00e+00
S36	36	16	3.62e-08
Cl35	35	17	1.83e-06
Cl36	36	17	1.07e-11
Cl37	37	17	6.21e-07
Ar36	36	18	4.10e-05
Ar37	37	18	0.00e+00
Ar38	38	18	7.88e-06
Ar39	39	18	0.00e+00
Ar40	40	18	1.34e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	1.70e-06
K40	40	19	2.88e-10
K41	41	19	1.29e-07
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	3.08e-05
Ca41	41	20	1.32e-11
Ca42	42	20	2.16e-07
Ca43	43	20	4.61e-08
Ca44	44	20	7.28e-07
Ca45	45	20	0.00e+00
Ca46	46	20	1.47e-09
Ca47	47	20	0.00e+00

Ca48	48	20	7.12e-08
Sc45	45	21	2.01e-08
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	1.20e-07
Ti47	47	22	1.10e-07
Ti48	48	22	1.12e-06
Ti49	49	22	8.40e-08
Ti50	50	22	8.21e-08
V50	50	23	4.74e-10
V51	51	23	1.93e-07
Cr50	50	24	3.77e-07
Cr51	51	24	0.00e+00
Cr52	52	24	7.56e-06
Cr53	53	24	8.74e-07
Cr54	54	24	2.22e-07
Mn55	55	25	6.61e-06
Mn56	56	25	0.00e+00
Fe54	54	26	3.62e-05
Fe55	55	26	0.00e+00
Fe56	56	26	5.89e-04
Fe57	57	26	1.39e-05
Fe58	58	26	1.90e-06
Fe59	59	26	0.00e+00
Fe60	60	26	2.79e-10
Co59	59	27	1.74e-06
Co60	60	27	0.00e+00
Ni58	58	28	2.49e-05
Ni59	59	28	8.64e-11
Ni60	60	28	9.92e-06
Ni61	61	28	4.40e-07
Ni62	62	28	1.42e-06
Ni63	63	28	0.00e+00
Ni64	64	28	3.74e-07
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	3.02e-07
Cu64	64	29	0.00e+00
Cu65	65	29	1.39e-07

Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	5.16e-07
Zn65	65	30	0.00e+00
Zn66	66	30	3.06e-07
Zn67	67	30	4.56e-08
Zn68	68	30	2.12e-07
Zn69	69	30	0.00e+00
Zn70	70	30	7.19e-09
Ga69	69	31	1.99e-08
Ga70	70	31	0.00e+00
Ga71	71	31	1.36e-08
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	2.37e-08
Ge71	71	32	0.00e+00
Ge72	72	32	3.17e-08
Ge73	73	32	8.96e-09
Ge74	74	32	4.24e-08
Ge75	75	32	0.00e+00
Ge76	76	32	8.96e-09
Ge77	77	32	0.00e+00
As75	75	33	5.98e-09
As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	6.34e-09
Se77	77	34	5.21e-09
Se78	78	34	1.65e-08
Se79	79	34	1.93e-11
Se80	80	34	3.57e-08
Se81	81	34	0.00e+00
Se82	82	34	6.00e-09
Br79	79	35	6.01e-09
Br80	80	35	0.00e+00
Br81	81	35	6.02e-09
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	1.35e-09
Kr81	81	36	1.28e-13
Kr82	82	36	7.03e-09

Kr83	83	36	6.98e-09		Mo98	98	42	9.18e-10
Kr84	84	36	3.49e-08		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	3.60e-10
Kr86	86	36	1.08e-08		Tc97	97	43	0.00e+00
Kr87	87	36	0.00e+00		Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00		Tc99	99	43	1.38e-12
Rb85	85	37	5.42e-09		Ru96	96	44	1.27e-10
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	2.16e-09		Ru98	98	44	4.39e-11
Rb88	88	37	0.00e+00		Ru99	99	44	3.07e-10
Sr86	86	38	2.71e-09		Ru00	100	44	3.23e-10
Sr87	87	38	2.05e-09		Ru01	101	44	4.18e-10
Sr88	88	38	2.43e-08		Ru02	102	44	8.01e-10
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	4.66e-10
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	5.76e-09		Rh03	103	45	4.98e-10
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	2.39e-10
Y92	92	39	0.00e+00		Pd05	105	46	4.55e-10
Y93	93	39	0.00e+00		Pd06	106	46	5.76e-10
Zr90	90	40	7.41e-09		Pd07	107	46	3.79e-12
Zr91	91	40	1.65e-09		Pd08	108	46	5.74e-10
Zr92	92	40	2.55e-09		Pd09	109	46	0.00e+00
Zr93	93	40	4.09e-11		Pd10	110	46	2.40e-10
Zr94	94	40	2.66e-09		Ag07	107	47	3.58e-10
Zr95	95	40	0.00e+00		Ag09	109	47	3.45e-10
Zr96	96	40	4.32e-10		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	2.01e-11
Nb93	93	41	9.39e-10		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	3.07e-10
Nb95	95	41	0.00e+00		Cd11	111	48	3.04e-10
Nb96	96	41	0.00e+00		Cd12	112	48	5.90e-10
Nb97	97	41	0.00e+00		Cd13	113	48	2.96e-10
Mo92	92	42	5.06e-10		Cd14	114	48	7.21e-10
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	3.23e-10		Cd16	116	48	1.86e-10
Mo95	95	42	5.84e-10		In13	113	49	1.16e-11
Mo96	96	42	6.27e-10		In15	115	49	2.71e-10
Mo97	97	42	3.55e-10		Sn14	114	50	3.68e-11

Sn15	115	50	1.91e-11
Sn16	116	50	8.75e-10
Sn17	117	50	4.55e-10
Sn18	118	50	1.47e-09
Sn19	119	50	5.20e-10
Sn20	120	50	2.01e-09
Sn21	121	50	0.00e+00
Sn22	122	50	2.81e-10
Sn23	123	50	0.00e+00
Sn24	124	50	3.51e-10
Sb21	121	51	3.10e-10
Sb22	122	51	0.00e+00
Sb23	123	51	2.31e-10
Sb24	124	51	0.00e+00
Sb25	125	51	0.00e+00
Te22	122	52	2.12e-10
Te23	123	52	7.45e-11
Te24	124	52	3.99e-10
Te25	125	52	5.70e-10
Te26	126	52	1.55e-09
Te27	127	52	0.00e+00
Te28	128	52	2.56e-09
Te30	130	52	2.77e-09
I127	127	53	1.68e-09
I128	128	53	0.00e+00
I129	129	53	1.46e-13
I130	130	53	0.00e+00
I131	131	53	0.00e+00
I132	132	53	0.00e+00
I133	133	53	0.00e+00
Xe28	128	54	2.15e-10
Xe29	129	54	2.51e-09
Xe30	130	54	4.32e-10
Xe31	131	54	2.03e-09
Xe32	132	54	2.52e-09
Xe33	133	54	0.00e+00
Xe34	134	54	9.20e-10
Xe35	135	54	0.00e+00
Xe36	136	54	7.57e-10
Cs33	133	55	6.44e-10
Cs34	134	55	0.00e+00

Cs35	135	55	8.10e-12
Cs36	136	55	0.00e+00
Cs37	137	55	0.00e+00
Ba34	134	56	2.04e-10
Ba35	135	56	5.28e-10
Ba36	136	56	6.80e-10
Ba37	137	56	9.51e-10
Ba38	138	56	6.15e-09
Ba39	139	56	0.00e+00
Ba40	140	56	0.00e+00
La39	139	57	8.34e-10
La40	140	57	0.00e+00
Ce40	140	58	2.00e-09
Ce41	141	58	0.00e+00
Ce42	142	58	2.47e-10
Ce43	143	58	0.00e+00
Ce44	144	58	0.00e+00
Pr41	141	59	3.30e-10
Pr42	142	59	0.00e+00
Pr43	143	59	0.00e+00
Pr45	145	59	0.00e+00
Nd42	142	60	4.39e-10
Nd43	143	60	1.93e-10
Nd44	144	60	3.84e-10
Nd45	145	60	1.33e-10
Nd46	146	60	2.82e-10
Nd47	147	60	0.00e+00
Nd48	148	60	9.42e-11
Nd49	149	60	0.00e+00
Nd50	150	60	9.22e-11
Pm45	145	61	0.00e+00
Pm46	146	61	0.00e+00
Pm47	147	61	0.00e+00
Pm48	148	61	0.00e+00
Pm49	149	61	0.00e+00
Pm50	150	61	0.00e+00
Pm51	151	61	0.00e+00
Sm44	144	62	1.50e-11
Sm45	145	62	0.00e+00
Sm46	146	62	0.00e+00
Sm47	147	62	7.53e-11

Sm48	148	62	5.81e-11		Er68	168	68	1.54e-10
Sm49	149	62	7.00e-11		Er69	169	68	0.00e+00
Sm50	150	62	3.88e-11		Er70	170	68	8.66e-11
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	1.39e-10		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	8.30e-11
Sm54	154	62	1.19e-10		Tm70	170	69	0.00e+00
Eu51	151	63	9.10e-11		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00
Eu53	153	63	1.01e-10		Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00		Yb70	170	70	1.76e-11
Eu55	155	63	0.00e+00		Yb71	171	70	8.14e-11
Eu56	156	63	0.00e+00		Yb72	172	70	1.26e-10
Eu57	157	63	0.00e+00		Yb73	173	70	9.31e-11
Gd52	152	64	1.36e-12		Yb74	174	70	1.87e-10
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00
Gd54	154	64	1.50e-11		Yb76	176	70	7.49e-11
Gd55	155	64	1.00e-10		Yb77	177	70	0.00e+00
Gd56	156	64	1.40e-10		Lu75	175	71	8.01e-11
Gd57	157	64	1.08e-10		Lu76	176	71	1.82e-12
Gd58	158	64	1.73e-10		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	2.13e-11
Gd60	160	64	1.53e-10		Hf77	177	72	7.41e-11
Tb59	159	65	1.24e-10		Hf78	178	72	1.11e-10
Tb60	160	65	0.00e+00		Hf79	179	72	5.52e-11
Tb61	161	65	0.00e+00		Hf80	180	72	1.44e-10
Dy60	160	66	1.97e-11		Hf81	181	72	0.00e+00
Dy61	161	66	1.56e-10		Hf82	182	72	4.95e-13
Dy62	162	66	2.13e-10		Hf83	183	72	0.00e+00
Dy63	163	66	2.08e-10		Hf84	184	72	0.00e+00
Dy64	164	66	2.39e-10		Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00		Ta80	180	73	0.00e+00
Dy66	166	66	0.00e+00		Ta81	181	73	5.04e-11
Ho63	163	67	0.00e+00		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta83	183	73	0.00e+00
Ho65	165	67	1.94e-10		Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00		W180	180	74	3.66e-13
Er64	164	68	9.03e-12		W181	181	74	0.00e+00
Er65	165	68	0.00e+00		W182	182	74	8.30e-11
Er66	166	68	1.90e-10		W183	183	74	4.52e-11
Er67	167	68	1.30e-10		W184	184	74	9.77e-11

Isotope	A	Z	YIELD [M☉]
W185	185	74	0.00e+00
W186	186	74	9.08e-11
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	4.82e-11
Re86	186	75	0.00e+00
Re87	187	75	4.52e-11
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	2.71e-11
Os87	187	76	6.35e-11
Os88	188	76	2.24e-10
Os89	189	76	2.73e-10
Os90	190	76	4.47e-10
Os91	191	76	0.00e+00
Os92	192	76	7.00e-10
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	6.06e-10
Ir92	192	77	0.00e+00
Ir93	193	77	1.03e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	2.72e-11
Pt93	193	78	0.00e+00
Pt94	194	78	1.14e-09
Pt95	195	78	1.17e-09
Pt96	196	78	8.82e-10
Pt97	197	78	0.00e+00
Pt98	198	78	2.52e-10
Au97	197	79	5.07e-10
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.11e-10
Hg99	199	80	1.85e-10
Hg00	200	80	2.57e-10
Hg01	201	80	1.47e-10
Hg02	202	80	3.37e-10
Hg03	203	80	0.00e+00
Hg04	204	80	7.70e-11
Tl03	203	81	1.49e-10

Isotope	A	Z	YIELD [M☉]
Tl04	204	81	0.00e+00
Tl05	205	81	3.59e-10
Pb04	204	82	1.74e-10
Pb05	205	82	4.06e-13
Pb06	206	82	1.66e-09
Pb07	207	82	1.83e-09
Pb08	208	82	5.21e-09
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	3.80e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M☉ = 1.30; Z = 0.014000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [M☉]
H	1	1	4.89e-01
He4	4	2	2.05e-01
C12	12	6	1.15e-03
C13	13	6	4.95e-05
C14	14	6	0.00e+00
N14	14	7	1.01e-03
N15	15	7	1.37e-06
O16	16	8	4.27e-03
O17	17	8	2.88e-06
O18	18	8	7.96e-06
F18	18	9	0.00e+00
F19	19	9	3.01e-07
Ne20	20	10	7.54e-04
Ne21	21	10	1.90e-06
Ne22	22	10	6.05e-05
Na22	22	11	0.00e+00
Na23	23	11	2.57e-05
Na24	24	11	0.00e+00
Mg24	24	12	3.77e-04
Mg25	25	12	4.97e-05
Mg26	26	12	5.68e-05

Al26	26	13	1.23e-08		Sc47	47	21	0.00e+00
Al27	27	13	4.26e-05		Sc48	48	21	0.00e+00
Si28	28	14	4.90e-04		Sc49	49	21	0.00e+00
Si29	29	14	2.58e-05		Ti46	46	22	1.73e-07
Si30	30	14	1.76e-05		Ti47	47	22	1.59e-07
Si31	31	14	0.00e+00		Ti48	48	22	1.61e-06
Si32	32	14	0.00e+00		Ti49	49	22	1.21e-07
P31	31	15	4.56e-06		Ti50	50	22	1.18e-07
P32	32	15	0.00e+00		V50	50	23	6.83e-10
P33	33	15	0.00e+00		V51	51	23	2.78e-07
S32	32	16	2.58e-04		Cr50	50	24	5.43e-07
S33	33	16	2.10e-06		Cr51	51	24	0.00e+00
S34	34	16	1.21e-05		Cr52	52	24	1.09e-05
S35	35	16	0.00e+00		Cr53	53	24	1.26e-06
S36	36	16	5.18e-08		Cr54	54	24	3.19e-07
Cl35	35	17	2.64e-06		Mn55	55	25	9.51e-06
Cl36	36	17	0.00e+00		Mn56	56	25	0.00e+00
Cl37	37	17	8.92e-07		Fe54	54	26	5.21e-05
Ar36	36	18	5.91e-05		Fe55	55	26	0.00e+00
Ar37	37	18	0.00e+00		Fe56	56	26	8.48e-04
Ar38	38	18	1.13e-05		Fe57	57	26	1.99e-05
Ar39	39	18	0.00e+00		Fe58	58	26	2.70e-06
Ar40	40	18	1.92e-08		Fe59	59	26	0.00e+00
Ar41	41	18	0.00e+00		Fe60	60	26	0.00e+00
Ar42	42	18	0.00e+00		Co59	59	27	2.50e-06
K39	39	19	2.45e-06		Co60	60	27	0.00e+00
K40	40	19	2.40e-10		Ni58	58	28	3.58e-05
K41	41	19	1.86e-07		Ni59	59	28	0.00e+00
K42	42	19	0.00e+00		Ni60	60	28	1.43e-05
K43	43	19	0.00e+00		Ni61	61	28	6.31e-07
Ca40	40	20	4.43e-05		Ni62	62	28	2.04e-06
Ca41	41	20	0.00e+00		Ni63	63	28	0.00e+00
Ca42	42	20	3.10e-07		Ni64	64	28	5.38e-07
Ca43	43	20	6.63e-08		Ni65	65	28	0.00e+00
Ca44	44	20	1.05e-06		Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00		Cu63	63	29	4.34e-07
Ca46	46	20	2.10e-09		Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00		Cu65	65	29	1.99e-07
Ca48	48	20	1.03e-07		Cu66	66	29	0.00e+00
Sc45	45	21	2.89e-08		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	7.43e-07

Zn65	65	30	0.00e+00
Zn66	66	30	4.39e-07
Zn67	67	30	6.56e-08
Zn68	68	30	3.04e-07
Zn69	69	30	0.00e+00
Zn70	70	30	1.04e-08
Ga69	69	31	2.86e-08
Ga70	70	31	0.00e+00
Ga71	71	31	1.95e-08
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	3.39e-08
Ge71	71	32	0.00e+00
Ge72	72	32	4.54e-08
Ge73	73	32	1.28e-08
Ge74	74	32	6.06e-08
Ge75	75	32	0.00e+00
Ge76	76	32	1.29e-08
Ge77	77	32	0.00e+00
As75	75	33	8.57e-09
As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	9.03e-09
Se77	77	34	7.46e-09
Se78	78	34	2.35e-08
Se79	79	34	0.00e+00
Se80	80	34	5.10e-08
Se81	81	34	0.00e+00
Se82	82	34	8.64e-09
Br79	79	35	8.63e-09
Br80	80	35	0.00e+00
Br81	81	35	8.60e-09
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	1.94e-09
Kr81	81	36	0.00e+00
Kr82	82	36	9.95e-09
Kr83	83	36	9.99e-09
Kr84	84	36	4.98e-08
Kr85	85	36	0.00e+00

Kr86	86	36	1.54e-08
Kr87	87	36	0.00e+00
Kr88	88	36	0.00e+00
Rb85	85	37	7.68e-09
Rb86	86	37	0.00e+00
Rb87	87	37	3.03e-09
Rb88	88	37	0.00e+00
Sr86	86	38	3.75e-09
Sr87	87	38	2.85e-09
Sr88	88	38	3.22e-08
Sr89	89	38	0.00e+00
Sr90	90	38	0.00e+00
Sr91	91	38	0.00e+00
Sr92	92	38	0.00e+00
Y89	89	39	7.71e-09
Y90	90	39	0.00e+00
Y91	91	39	0.00e+00
Y92	92	39	0.00e+00
Y93	93	39	0.00e+00
Zr90	90	40	1.01e-08
Zr91	91	40	2.22e-09
Zr92	92	40	3.43e-09
Zr93	93	40	0.00e+00
Zr94	94	40	3.56e-09
Zr95	95	40	0.00e+00
Zr96	96	40	5.85e-10
Zr97	97	40	0.00e+00
Nb93	93	41	1.34e-09
Nb94	94	41	0.00e+00
Nb95	95	41	0.00e+00
Nb96	96	41	0.00e+00
Nb97	97	41	0.00e+00
Mo92	92	42	7.29e-10
Mo93	93	42	0.00e+00
Mo94	94	42	4.64e-10
Mo95	95	42	8.08e-10
Mo96	96	42	8.56e-10
Mo97	97	42	4.95e-10
Mo98	98	42	1.26e-09
Mo99	99	42	0.00e+00
Mo00	100	42	5.15e-10

Tc97	97	43	0.00e+00		Sn18	118	50	2.01e-09
Tc98	98	43	0.00e+00		Sn19	119	50	7.20e-10
Tc99	99	43	0.00e+00		Sn20	120	50	2.76e-09
Ru96	96	44	1.84e-10		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	3.98e-10
Ru98	98	44	6.32e-11		Sn23	123	50	0.00e+00
Ru99	99	44	4.36e-10		Sn24	124	50	5.06e-10
Ru00	100	44	4.35e-10		Sb21	121	51	4.35e-10
Ru01	101	44	5.95e-10		Sb22	122	51	0.00e+00
Ru02	102	44	1.11e-09		Sb23	123	51	3.31e-10
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	6.68e-10		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	2.88e-10
Ru06	106	44	0.00e+00		Te23	123	52	1.01e-10
Rh03	103	45	7.09e-10		Te24	124	52	5.42e-10
Rh05	105	45	0.00e+00		Te25	125	52	8.10e-10
Pd04	104	46	3.21e-10		Te26	126	52	2.17e-09
Pd05	105	46	6.49e-10		Te27	127	52	0.00e+00
Pd06	106	46	8.02e-10		Te28	128	52	3.68e-09
Pd07	107	46	0.00e+00		Te30	130	52	3.99e-09
Pd08	108	46	7.91e-10		I127	127	53	2.41e-09
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	3.44e-10		I129	129	53	0.00e+00
Ag07	107	47	5.15e-10		I130	130	53	0.00e+00
Ag09	109	47	4.88e-10		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	2.89e-11		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	2.91e-10
Cd10	110	48	4.13e-10		Xe29	129	54	3.61e-09
Cd11	111	48	4.27e-10		Xe30	130	54	5.80e-10
Cd12	112	48	8.12e-10		Xe31	131	54	2.91e-09
Cd13	113	48	4.15e-10		Xe32	132	54	3.54e-09
Cd14	114	48	9.84e-10		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	1.32e-09
Cd16	116	48	2.61e-10		Xe35	135	54	0.00e+00
In13	113	49	1.67e-11		Xe36	136	54	1.09e-09
In15	115	49	3.80e-10		Cs33	133	55	9.16e-10
Sn14	114	50	5.29e-11		Cs34	134	55	0.00e+00
Sn15	115	50	2.75e-11		Cs35	135	55	0.00e+00
Sn16	116	50	1.19e-09		Cs36	136	55	0.00e+00
Sn17	117	50	6.33e-10		Cs37	137	55	0.00e+00

Ba34	134	56	2.74e-10		Sm51	151	62	0.00e+00
Ba35	135	56	7.54e-10		Sm52	152	62	1.98e-10
Ba36	136	56	9.05e-10		Sm53	153	62	0.00e+00
Ba37	137	56	1.30e-09		Sm54	154	62	1.71e-10
Ba38	138	56	8.38e-09		Eu51	151	63	1.31e-10
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	1.45e-10
La39	139	57	1.15e-09		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	2.76e-09		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	3.52e-10		Gd52	152	64	1.94e-12
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	2.11e-11
Pr41	141	59	4.65e-10		Gd55	155	64	1.44e-10
Pr42	142	59	0.00e+00		Gd56	156	64	2.01e-10
Pr43	143	59	0.00e+00		Gd57	157	64	1.54e-10
Pr45	145	59	0.00e+00		Gd58	158	64	2.47e-10
Nd42	142	60	6.08e-10		Gd59	159	64	0.00e+00
Nd43	143	60	2.75e-10		Gd60	160	64	2.20e-10
Nd44	144	60	5.41e-10		Tb59	159	65	1.78e-10
Nd45	145	60	1.90e-10		Tb60	160	65	0.00e+00
Nd46	146	60	3.96e-10		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	2.76e-11
Nd48	148	60	1.34e-10		Dy61	161	66	2.25e-10
Nd49	149	60	0.00e+00		Dy62	162	66	3.05e-10
Nd50	150	60	1.33e-10		Dy63	163	66	3.00e-10
Pm45	145	61	0.00e+00		Dy64	164	66	3.41e-10
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	0.00e+00
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	2.79e-10
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	2.16e-11		Er64	164	68	1.29e-11
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	2.72e-10
Sm47	147	62	1.07e-10		Er67	167	68	1.87e-10
Sm48	148	62	8.11e-11		Er68	168	68	2.19e-10
Sm49	149	62	1.00e-10		Er69	169	68	0.00e+00
Sm50	150	62	5.40e-11		Er70	170	68	1.24e-10

Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	1.19e-10
Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00
Tm73	173	69	0.00e+00
Yb70	170	70	2.46e-11
Yb71	171	70	1.16e-10
Yb72	172	70	1.79e-10
Yb73	173	70	1.33e-10
Yb74	174	70	2.64e-10
Yb75	175	70	0.00e+00
Yb76	176	70	1.07e-10
Yb77	177	70	0.00e+00
Lu75	175	71	1.15e-10
Lu76	176	71	2.07e-12
Lu77	177	71	0.00e+00
Hf76	176	72	3.08e-11
Hf77	177	72	1.06e-10
Hf78	178	72	1.56e-10
Hf79	179	72	7.86e-11
Hf80	180	72	2.03e-10
Hf81	181	72	0.00e+00
Hf82	182	72	0.00e+00
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00
Ta81	181	73	7.17e-11
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	5.27e-13
W181	181	74	0.00e+00
W182	182	74	1.18e-10
W183	183	74	6.40e-11
W184	184	74	1.38e-10
W185	185	74	0.00e+00
W186	186	74	1.29e-10
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	6.89e-11
Re86	186	75	0.00e+00
Re87	187	75	6.28e-11
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	3.80e-11
Os87	187	76	9.33e-11
Os88	188	76	3.20e-10
Os89	189	76	3.93e-10
Os90	190	76	6.42e-10
Os91	191	76	0.00e+00
Os92	192	76	1.01e-09
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	8.72e-10
Ir92	192	77	0.00e+00
Ir93	193	77	1.48e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	3.85e-11
Pt93	193	78	0.00e+00
Pt94	194	78	1.64e-09
Pt95	195	78	1.69e-09
Pt96	196	78	1.27e-09
Pt97	197	78	0.00e+00
Pt98	198	78	3.63e-10
Au97	197	79	7.29e-10
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.56e-10
Hg99	199	80	2.66e-10
Hg00	200	80	3.65e-10
Hg01	201	80	2.10e-10
Hg02	202	80	4.77e-10
Hg03	203	80	0.00e+00
Hg04	204	80	1.11e-10
Tl03	203	81	2.12e-10
Tl04	204	81	0.00e+00
Tl05	205	81	5.11e-10
Pb04	204	82	2.48e-10

Isotope	A	Z	YIELD
Pb05	205	82	0.00e+00
Pb06	206	82	2.37e-09
Pb07	207	82	2.62e-09
Pb08	208	82	7.50e-09
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	5.48e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M_{α} = 1.30; Z = 0.020000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_{\odot}$]
H	1	1	4.72e-01
He4	4	2	2.01e-01
C12	12	6	1.66e-03
C13	13	6	6.97e-05
C14	14	6	0.00e+00
N14	14	7	1.38e-03
N15	15	7	2.00e-06
O16	16	8	6.04e-03
O17	17	8	3.66e-06
O18	18	8	1.14e-05
F18	18	9	0.00e+00
F19	19	9	4.25e-07
Ne20	20	10	1.07e-03
Ne21	21	10	2.68e-06
Ne22	22	10	8.56e-05
Na22	22	11	0.00e+00
Na23	23	11	3.61e-05
Na24	24	11	0.00e+00
Mg24	24	12	5.32e-04
Mg25	25	12	7.02e-05
Mg26	26	12	8.03e-05
Al26	26	13	1.99e-08
Al27	27	13	6.02e-05
Si28	28	14	6.92e-04
Si29	29	14	3.64e-05
Si30	30	14	2.48e-05
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	6.45e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	3.64e-04
S33	33	16	2.96e-06
S34	34	16	1.72e-05
S35	35	16	0.00e+00
S36	36	16	7.32e-08
Cl35	35	17	3.73e-06
Cl36	36	17	1.80e-13
Cl37	37	17	1.26e-06
Ar36	36	18	8.35e-05
Ar37	37	18	0.00e+00
Ar38	38	18	1.60e-05
Ar39	39	18	0.00e+00
Ar40	40	18	2.70e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	3.46e-06
K40	40	19	1.79e-10
K41	41	19	2.62e-07
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	6.26e-05
Ca41	41	20	5.71e-13
Ca42	42	20	4.39e-07
Ca43	43	20	9.37e-08
Ca44	44	20	1.48e-06
Ca45	45	20	0.00e+00
Ca46	46	20	2.97e-09
Ca47	47	20	0.00e+00
Ca48	48	20	1.45e-07
Sc45	45	21	4.09e-08
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00

Ti46	46	22	2.44e-07
Ti47	47	22	2.25e-07
Ti48	48	22	2.27e-06
Ti49	49	22	1.70e-07
Ti50	50	22	1.67e-07
V50	50	23	9.65e-10
V51	51	23	3.93e-07
Cr50	50	24	7.67e-07
Cr51	51	24	0.00e+00
Cr52	52	24	1.54e-05
Cr53	53	24	1.78e-06
Cr54	54	24	4.51e-07
Mn55	55	25	1.34e-05
Mn56	56	25	0.00e+00
Fe54	54	26	7.36e-05
Fe55	55	26	0.00e+00
Fe56	56	26	1.20e-03
Fe57	57	26	2.82e-05
Fe58	58	26	3.82e-06
Fe59	59	26	0.00e+00
Fe60	60	26	0.00e+00
Co59	59	27	3.54e-06
Co60	60	27	0.00e+00
Ni58	58	28	5.06e-05
Ni59	59	28	3.28e-12
Ni60	60	28	2.02e-05
Ni61	61	28	8.92e-07
Ni62	62	28	2.89e-06
Ni63	63	28	0.00e+00
Ni64	64	28	7.60e-07
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	6.13e-07
Cu64	64	29	0.00e+00
Cu65	65	29	2.82e-07
Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	1.05e-06
Zn65	65	30	0.00e+00
Zn66	66	30	6.21e-07
Zn67	67	30	9.26e-08

Zn68	68	30	4.30e-07
Zn69	69	30	0.00e+00
Zn70	70	30	1.46e-08
Ga69	69	31	4.03e-08
Ga70	70	31	0.00e+00
Ga71	71	31	2.76e-08
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	4.79e-08
Ge71	71	32	0.00e+00
Ge72	72	32	6.41e-08
Ge73	73	32	1.81e-08
Ge74	74	32	8.57e-08
Ge75	75	32	0.00e+00
Ge76	76	32	1.82e-08
Ge77	77	32	0.00e+00
As75	75	33	1.21e-08
As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	1.28e-08
Se77	77	34	1.05e-08
Se78	78	34	3.32e-08
Se79	79	34	0.00e+00
Se80	80	34	7.20e-08
Se81	81	34	0.00e+00
Se82	82	34	1.22e-08
Br79	79	35	1.22e-08
Br80	80	35	0.00e+00
Br81	81	35	1.22e-08
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	2.74e-09
Kr81	81	36	0.00e+00
Kr82	82	36	1.41e-08
Kr83	83	36	1.41e-08
Kr84	84	36	7.04e-08
Kr85	85	36	0.00e+00
Kr86	86	36	2.18e-08
Kr87	87	36	0.00e+00
Kr88	88	36	0.00e+00

Rb85	85	37	1.09e-08
Rb86	86	37	0.00e+00
Rb87	87	37	4.29e-09
Rb88	88	37	0.00e+00
Sr86	86	38	5.30e-09
Sr87	87	38	4.03e-09
Sr88	88	38	4.55e-08
Sr89	89	38	0.00e+00
Sr90	90	38	0.00e+00
Sr91	91	38	0.00e+00
Sr92	92	38	0.00e+00
Y89	89	39	1.09e-08
Y90	90	39	0.00e+00
Y91	91	39	0.00e+00
Y92	92	39	0.00e+00
Y93	93	39	0.00e+00
Zr90	90	40	1.42e-08
Zr91	91	40	3.14e-09
Zr92	92	40	4.85e-09
Zr93	93	40	0.00e+00
Zr94	94	40	5.03e-09
Zr95	95	40	0.00e+00
Zr96	96	40	8.27e-10
Zr97	97	40	0.00e+00
Nb93	93	41	1.89e-09
Nb94	94	41	0.00e+00
Nb95	95	41	0.00e+00
Nb96	96	41	0.00e+00
Nb97	97	41	0.00e+00
Mo92	92	42	1.03e-09
Mo93	93	42	0.00e+00
Mo94	94	42	6.56e-10
Mo95	95	42	1.14e-09
Mo96	96	42	1.21e-09
Mo97	97	42	7.00e-10
Mo98	98	42	1.79e-09
Mo99	99	42	0.00e+00
Mo00	100	42	7.27e-10
Tc97	97	43	0.00e+00
Tc98	98	43	0.00e+00
Tc99	99	43	0.00e+00

Ru96	96	44	2.59e-10
Ru97	97	44	0.00e+00
Ru98	98	44	8.93e-11
Ru99	99	44	6.16e-10
Ru00	100	44	6.14e-10
Ru01	101	44	8.40e-10
Ru02	102	44	1.57e-09
Ru03	103	44	0.00e+00
Ru04	104	44	9.44e-10
Ru05	105	44	0.00e+00
Ru06	106	44	0.00e+00
Rh03	103	45	1.00e-09
Rh05	105	45	0.00e+00
Pd04	104	46	4.53e-10
Pd05	105	46	9.17e-10
Pd06	106	46	1.13e-09
Pd07	107	46	0.00e+00
Pd08	108	46	1.12e-09
Pd09	109	46	0.00e+00
Pd10	110	46	4.86e-10
Ag07	107	47	7.28e-10
Ag09	109	47	6.89e-10
Ag11	111	47	0.00e+00
Cd08	108	48	4.08e-11
Cd09	109	48	0.00e+00
Cd10	110	48	5.83e-10
Cd11	111	48	6.03e-10
Cd12	112	48	1.15e-09
Cd13	113	48	5.86e-10
Cd14	114	48	1.39e-09
Cd15	115	48	0.00e+00
Cd16	116	48	3.69e-10
In13	113	49	2.36e-11
In15	115	49	5.37e-10
Sn14	114	50	7.48e-11
Sn15	115	50	3.88e-11
Sn16	116	50	1.68e-09
Sn17	117	50	8.94e-10
Sn18	118	50	2.85e-09
Sn19	119	50	1.02e-09
Sn20	120	50	3.89e-09

Sn21	121	50	0.00e+00		Ba37	137	56	1.84e-09
Sn22	122	50	5.62e-10		Ba38	138	56	1.18e-08
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00
Sn24	124	50	7.15e-10		Ba40	140	56	0.00e+00
Sb21	121	51	6.14e-10		La39	139	57	1.62e-09
Sb22	122	51	0.00e+00		La40	140	57	0.00e+00
Sb23	123	51	4.67e-10		Ce40	140	58	3.90e-09
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	4.97e-10
Te22	122	52	4.07e-10		Ce43	143	58	0.00e+00
Te23	123	52	1.43e-10		Ce44	144	58	0.00e+00
Te24	124	52	7.66e-10		Pr41	141	59	6.57e-10
Te25	125	52	1.14e-09		Pr42	142	59	0.00e+00
Te26	126	52	3.06e-09		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	5.20e-09		Nd42	142	60	8.60e-10
Te30	130	52	5.64e-09		Nd43	143	60	3.89e-10
I127	127	53	3.40e-09		Nd44	144	60	7.65e-10
I128	128	53	0.00e+00		Nd45	145	60	2.68e-10
I129	129	53	0.00e+00		Nd46	146	60	5.59e-10
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	1.89e-10
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	1.88e-10
Xe28	128	54	4.11e-10		Pm45	145	61	0.00e+00
Xe29	129	54	5.10e-09		Pm46	146	61	0.00e+00
Xe30	130	54	8.19e-10		Pm47	147	61	0.00e+00
Xe31	131	54	4.11e-09		Pm48	148	61	0.00e+00
Xe32	132	54	5.01e-09		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	1.86e-09		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	3.05e-11
Xe36	136	54	1.54e-09		Sm45	145	62	0.00e+00
Cs33	133	55	1.29e-09		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	1.52e-10
Cs35	135	55	0.00e+00		Sm48	148	62	1.15e-10
Cs36	136	55	0.00e+00		Sm49	149	62	1.42e-10
Cs37	137	55	0.00e+00		Sm50	150	62	7.63e-11
Ba34	134	56	3.88e-10		Sm51	151	62	0.00e+00
Ba35	135	56	1.07e-09		Sm52	152	62	2.80e-10
Ba36	136	56	1.28e-09		Sm53	153	62	0.00e+00

Sm54	154	62	2.41e-10
Eu51	151	63	1.85e-10
Eu52	152	63	0.00e+00
Eu53	153	63	2.04e-10
Eu54	154	63	0.00e+00
Eu55	155	63	0.00e+00
Eu56	156	63	0.00e+00
Eu57	157	63	0.00e+00
Gd52	152	64	2.74e-12
Gd53	153	64	0.00e+00
Gd54	154	64	2.98e-11
Gd55	155	64	2.04e-10
Gd56	156	64	2.83e-10
Gd57	157	64	2.18e-10
Gd58	158	64	3.48e-10
Gd59	159	64	0.00e+00
Gd60	160	64	3.11e-10
Tb59	159	65	2.51e-10
Tb60	160	65	0.00e+00
Tb61	161	65	0.00e+00
Dy60	160	66	3.90e-11
Dy61	161	66	3.18e-10
Dy62	162	66	4.31e-10
Dy63	163	66	4.23e-10
Dy64	164	66	4.82e-10
Dy65	165	66	0.00e+00
Dy66	166	66	0.00e+00
Ho63	163	67	0.00e+00
Ho64	164	67	0.00e+00
Ho65	165	67	3.94e-10
Ho66	166	67	0.00e+00
Er64	164	68	1.82e-11
Er65	165	68	0.00e+00
Er66	166	68	3.84e-10
Er67	167	68	2.64e-10
Er68	168	68	3.10e-10
Er69	169	68	0.00e+00
Er70	170	68	1.75e-10
Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	1.68e-10

Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00
Tm73	173	69	0.00e+00
Yb70	170	70	3.48e-11
Yb71	171	70	1.64e-10
Yb72	172	70	2.53e-10
Yb73	173	70	1.88e-10
Yb74	174	70	3.73e-10
Yb75	175	70	0.00e+00
Yb76	176	70	1.51e-10
Yb77	177	70	0.00e+00
Lu75	175	71	1.62e-10
Lu76	176	71	2.66e-12
Lu77	177	71	0.00e+00
Hf76	176	72	4.37e-11
Hf77	177	72	1.50e-10
Hf78	178	72	2.21e-10
Hf79	179	72	1.11e-10
Hf80	180	72	2.88e-10
Hf81	181	72	0.00e+00
Hf82	182	72	0.00e+00
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00
Ta81	181	73	1.01e-10
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	7.45e-13
W181	181	74	0.00e+00
W182	182	74	1.67e-10
W183	183	74	9.05e-11
W184	184	74	1.95e-10
W185	185	74	0.00e+00
W186	186	74	1.83e-10
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	9.74e-11
Re86	186	75	0.00e+00

Isotope	A	Z	YIELD
Re87	187	75	7.83e-11
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	5.37e-11
Os87	187	76	1.42e-10
Os88	188	76	4.53e-10
Os89	189	76	5.55e-10
Os90	190	76	9.07e-10
Os91	191	76	0.00e+00
Os92	192	76	1.42e-09
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	1.23e-09
Ir92	192	77	0.00e+00
Ir93	193	77	2.10e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	5.44e-11
Pt93	193	78	0.00e+00
Pt94	194	78	2.31e-09
Pt95	195	78	2.39e-09
Pt96	196	78	1.79e-09
Pt97	197	78	0.00e+00
Pt98	198	78	5.13e-10
Au97	197	79	1.03e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	2.21e-10
Hg99	199	80	3.75e-10
Hg00	200	80	5.16e-10
Hg01	201	80	2.96e-10
Hg02	202	80	6.74e-10
Hg03	203	80	0.00e+00
Hg04	204	80	1.57e-10
Tl03	203	81	2.99e-10
Tl04	204	81	0.00e+00
Tl05	205	81	7.21e-10
Pb04	204	82	3.51e-10
Pb05	205	82	0.00e+00
Pb06	206	82	3.35e-09
Pb07	207	82	3.70e-09

Isotope	A	Z	YIELD
Pb08	208	82	1.06e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	7.74e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 1.50; Z = 0.000020 [α/Fe]=0.5; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	5.84e-01
He4	4	2	2.45e-01
C12	12	6	4.73e-03
C13	13	6	4.07e-04
C14	14	6	1.26e-08
N14	14	7	3.33e-04
N15	15	7	3.63e-08
O16	16	8	2.51e-04
O17	17	8	8.95e-07
O18	18	8	4.24e-07
F18	18	9	0.00e+00
F19	19	9	1.89e-07
Ne20	20	10	4.70e-06
Ne21	21	10	9.78e-08
Ne22	22	10	1.91e-04
Na22	22	11	0.00e+00
Na23	23	11	1.27e-06
Na24	24	11	0.00e+00
Mg24	24	12	3.87e-06
Mg25	25	12	4.70e-07
Mg26	26	12	6.75e-07
Al26	26	13	1.86e-09
Al27	27	13	8.48e-08
Si28	28	14	2.72e-06
Si29	29	14	5.20e-08
Si30	30	14	5.60e-08
Si31	31	14	0.00e+00

Si32	32	14	1.61e-12
P31	31	15	4.97e-08
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	1.42e-06
S33	33	16	1.63e-08
S34	34	16	7.36e-08
S35	35	16	0.00e+00
S36	36	16	7.54e-09
Cl35	35	17	5.73e-09
Cl36	36	17	3.36e-12
Cl37	37	17	2.42e-09
Ar36	36	18	3.19e-07
Ar37	37	18	0.00e+00
Ar38	38	18	2.05e-08
Ar39	39	18	1.32e-13
Ar40	40	18	1.51e-09
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	4.54e-09
K40	40	19	2.26e-11
K41	41	19	6.34e-10
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	2.40e-07
Ca41	41	20	2.28e-12
Ca42	42	20	1.15e-09
Ca43	43	20	3.12e-10
Ca44	44	20	2.28e-09
Ca45	45	20	0.00e+00
Ca46	46	20	6.72e-10
Ca47	47	20	0.00e+00
Ca48	48	20	2.08e-09
Sc45	45	21	2.39e-10
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	3.29e-10
Ti47	47	22	1.27e-09
Ti48	48	22	2.82e-09

Ti49	49	22	4.50e-10
Ti50	50	22	1.37e-09
V50	50	23	1.16e-12
V51	51	23	5.33e-10
Cr50	50	24	9.23e-10
Cr51	51	24	0.00e+00
Cr52	52	24	1.90e-08
Cr53	53	24	2.19e-09
Cr54	54	24	9.12e-10
Mn55	55	25	1.64e-08
Mn56	56	25	0.00e+00
Fe54	54	26	8.88e-08
Fe55	55	26	0.00e+00
Fe56	56	26	1.45e-06
Fe57	57	26	3.58e-08
Fe58	58	26	6.56e-09
Fe59	59	26	0.00e+00
Fe60	60	26	1.06e-09
Co59	59	27	4.82e-09
Co60	60	27	0.00e+00
Ni58	58	28	6.10e-08
Ni59	59	28	5.30e-12
Ni60	60	28	2.50e-08
Ni61	61	28	1.30e-09
Ni62	62	28	3.98e-09
Ni63	63	28	0.00e+00
Ni64	64	28	2.59e-09
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	1.11e-09
Cu64	64	29	0.00e+00
Cu65	65	29	9.51e-10
Cu68	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	1.30e-09
Zn65	65	30	0.00e+00
Zn66	66	30	2.71e-09
Zn67	67	30	4.61e-10
Zn68	68	30	1.45e-09
Zn69	69	30	0.00e+00
Zn70	70	30	6.46e-10

Ga69	69	31	2.59e-10		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	6.26e-11
Ga71	71	31	2.22e-10		Sr87	87	38	2.65e-11
Ga72	72	31	0.00e+00		Sr88	88	38	2.79e-09
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	1.43e-10		Sr90	90	38	0.00e+00
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	5.23e-10		Sr92	92	38	0.00e+00
Ge73	73	32	2.91e-10		Y89	89	39	1.09e-09
Ge74	74	32	5.74e-10		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	8.39e-10		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	1.84e-10		Zr90	90	40	1.20e-09
As76	76	33	0.00e+00		Zr91	91	40	4.92e-10
As77	77	33	0.00e+00		Zr92	92	40	1.05e-09
Se76	76	34	6.78e-11		Zr93	93	40	2.45e-10
Se77	77	34	3.55e-10		Zr94	94	40	6.00e-10
Se78	78	34	9.99e-10		Zr95	95	40	0.00e+00
Se79	79	34	3.60e-11		Zr96	96	40	2.50e-09
Se80	80	34	8.44e-10		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	1.41e-10
Se82	82	34	2.81e-09		Nb94	94	41	0.00e+00
Br79	79	35	1.99e-10		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	2.07e-10		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	1.24e-12
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	1.24e-12
Kr80	80	36	4.26e-12		Mo95	95	42	3.74e-10
Kr81	81	36	1.51e-13		Mo96	96	42	3.22e-11
Kr82	82	36	9.66e-11		Mo97	97	42	1.23e-09
Kr83	83	36	4.99e-10		Mo98	98	42	3.59e-10
Kr84	84	36	8.26e-10		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	2.53e-10
Kr86	86	36	5.58e-09		Tc97	97	43	0.00e+00
Kr87	87	36	0.00e+00		Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00		Tc99	99	43	1.08e-11
Rb85	85	37	5.01e-10		Ru96	96	44	3.11e-13
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	1.63e-09		Ru98	98	44	1.07e-13

Ru99	99	44	1.17e-10		Sn24	124	50	1.82e-09
Ru00	100	44	3.49e-11		Sb21	121	51	1.53e-10
Ru01	101	44	3.56e-11		Sb22	122	51	0.00e+00
Ru02	102	44	2.15e-10		Sb23	123	51	1.99e-10
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	1.66e-10		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	2.34e-11
Ru06	106	44	0.00e+00		Te23	123	52	7.62e-12
Rh03	103	45	7.14e-11		Te24	124	52	6.25e-11
Rh05	105	45	0.00e+00		Te25	125	52	1.16e-10
Pd04	104	46	2.64e-11		Te26	126	52	4.44e-10
Pd05	105	46	7.65e-11		Te27	127	52	0.00e+00
Pd06	106	46	4.57e-10		Te28	128	52	6.17e-10
Pd07	107	46	2.52e-11		Te30	130	52	6.81e-12
Pd08	108	46	1.70e-10		I127	127	53	1.61e-10
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	1.77e-10		I129	129	53	5.82e-11
Ag07	107	47	3.59e-12		I130	130	53	0.00e+00
Ag09	109	47	5.59e-11		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	0.00e+00		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	4.58e-11
Cd10	110	48	3.27e-11		Xe29	129	54	2.68e-11
Cd11	111	48	5.40e-11		Xe30	130	54	1.29e-10
Cd12	112	48	1.79e-10		Xe31	131	54	2.29e-10
Cd13	113	48	5.41e-11		Xe32	132	54	3.45e-10
Cd14	114	48	2.62e-10		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	7.67e-10
Cd16	116	48	3.66e-10		Xe35	135	54	0.00e+00
In13	113	49	0.00e+00		Xe36	136	54	9.43e-09
In15	115	49	1.08e-10		Cs33	133	55	6.36e-10
Sn14	114	50	0.00e+00		Cs34	134	55	0.00e+00
Sn15	115	50	0.00e+00		Cs35	135	55	3.77e-09
Sn16	116	50	7.72e-11		Cs36	136	55	0.00e+00
Sn17	117	50	1.12e-10		Cs37	137	55	0.00e+00
Sn18	118	50	5.41e-10		Ba34	134	56	4.87e-11
Sn19	119	50	1.66e-10		Ba35	135	56	1.02e-09
Sn20	120	50	9.25e-10		Ba36	136	56	2.99e-10
Sn21	121	50	0.00e+00		Ba37	137	56	1.18e-09
Sn22	122	50	1.23e-09		Ba38	138	56	5.15e-09
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00

Ba40	140	56	0.00e+00		Eu53	153	63	8.98e-12
La39	139	57	5.98e-10		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	1.19e-09		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	3.20e-10		Gd52	152	64	2.80e-13
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	6.45e-12
Pr41	141	59	1.59e-10		Gd55	155	64	1.11e-11
Pr42	142	59	0.00e+00		Gd56	156	64	2.73e-11
Pr43	143	59	0.00e+00		Gd57	157	64	1.71e-11
Pr45	145	59	0.00e+00		Gd58	158	64	5.57e-11
Nd42	142	60	1.55e-10		Gd59	159	64	0.00e+00
Nd43	143	60	7.93e-11		Gd60	160	64	4.02e-11
Nd44	144	60	2.98e-10		Tb59	159	65	1.61e-11
Nd45	145	60	3.65e-11		Tb60	160	65	0.00e+00
Nd46	146	60	1.88e-10		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	1.34e-11
Nd48	148	60	6.15e-11		Dy61	161	66	1.31e-11
Nd49	149	60	0.00e+00		Dy62	162	66	4.23e-11
Nd50	150	60	2.93e-11		Dy63	163	66	1.49e-11
Pm45	145	61	0.00e+00		Dy64	164	66	7.50e-11
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	0.00e+00
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	2.28e-11
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	0.00e+00		Er64	164	68	4.49e-12
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	6.23e-11
Sm47	147	62	2.33e-11		Er67	167	68	1.36e-11
Sm48	148	62	3.33e-11		Er68	168	68	5.42e-11
Sm49	149	62	1.55e-11		Er69	169	68	0.00e+00
Sm50	150	62	2.96e-11		Er70	170	68	4.81e-11
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	3.80e-11		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	1.62e-11
Sm54	154	62	3.66e-11		Tm70	170	69	0.00e+00
Eu51	151	63	1.01e-11		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00

Tm73	173	69	0.00e+00		Os86	186	76	2.87e-11
Yb70	170	70	1.22e-11		Os87	187	76	7.64e-12
Yb71	171	70	3.41e-11		Os88	188	76	1.65e-10
Yb72	172	70	1.20e-10		Os89	189	76	2.44e-11
Yb73	173	70	3.54e-11		Os90	190	76	9.77e-11
Yb74	174	70	1.40e-10		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	8.68e-11
Yb76	176	70	6.89e-11		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	2.41e-11		Ir91	191	77	2.02e-11
Lu76	176	71	2.49e-12		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	4.03e-11
Hf76	176	72	1.95e-11		Ir94	194	77	0.00e+00
Hf77	177	72	2.77e-11		Ir95	195	77	0.00e+00
Hf78	178	72	7.59e-11		Pt92	192	78	2.15e-11
Hf79	179	72	2.59e-11		Pt93	193	78	0.00e+00
Hf80	180	72	1.46e-10		Pt94	194	78	1.75e-10
Hf81	181	72	0.00e+00		Pt95	195	78	4.89e-11
Hf82	182	72	4.64e-11		Pt96	196	78	1.50e-10
Hf83	183	72	0.00e+00		Pt97	197	78	0.00e+00
Hf84	184	72	0.00e+00		Pt98	198	78	6.85e-11
Ta79	179	73	0.00e+00		Au97	197	79	5.35e-11
Ta80	180	73	0.00e+00		Au98	198	79	0.00e+00
Ta81	181	73	4.82e-11		Au99	199	79	0.00e+00
Ta82	182	73	0.00e+00		Hg98	198	80	1.12e-10
Ta83	183	73	0.00e+00		Hg99	199	80	7.87e-11
Ta84	184	73	0.00e+00		Hg00	200	80	2.52e-10
W180	180	74	0.00e+00		Hg01	201	80	1.08e-10
W181	181	74	0.00e+00		Hg02	202	80	4.45e-10
W182	182	74	4.70e-11		Hg03	203	80	0.00e+00
W183	183	74	5.67e-11		Hg04	204	80	1.28e-10
W184	184	74	1.37e-10		Tl03	203	81	2.10e-10
W185	185	74	0.00e+00		Tl04	204	81	0.00e+00
W186	186	74	7.02e-11		Tl05	205	81	3.80e-10
W187	187	74	0.00e+00		Pb04	204	82	1.77e-10
W188	188	74	0.00e+00		Pb05	205	82	2.17e-11
Re85	185	75	2.73e-11		Pb06	206	82	1.93e-09
Re86	186	75	0.00e+00		Pb07	207	82	2.24e-09
Re87	187	75	2.71e-11		Pb08	208	82	1.23e-08
Re88	188	75	0.00e+00		Pb09	209	82	0.00e+00
Re89	189	75	0.00e+00		Pb10	210	82	0.00e+00

Isotope	A	Z	YIELD [$M_\odot$]
Bi09	209	83	1.84e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 1.50; Z = 0.000050 [α/Fe]=0.5; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	5.47e-01
He4	4	2	2.41e-01
C12	12	6	9.42e-03
C13	13	6	8.39e-07
C14	14	6	4.49e-09
N14	14	7	3.84e-05
N15	15	7	1.99e-08
O16	16	8	4.26e-04
O17	17	8	6.01e-07
O18	18	8	9.58e-08
F18	18	9	0.00e+00
F19	19	9	8.06e-07
Ne20	20	10	1.44e-05
Ne21	21	10	3.96e-07
Ne22	22	10	6.80e-04
Na22	22	11	0.00e+00
Na23	23	11	6.45e-06
Na24	24	11	0.00e+00
Mg24	24	12	2.01e-05
Mg25	25	12	4.76e-06
Mg26	26	12	5.40e-06
Al26	26	13	1.22e-08
Al27	27	13	3.49e-07
Si28	28	14	6.73e-06
Si29	29	14	1.33e-07
Si30	30	14	1.09e-07
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	1.06e-07
P32	32	15	0.00e+00

Isotope	A	Z	YIELD [$M_\odot$]
P33	33	15	0.00e+00
S32	32	16	3.39e-06
S33	33	16	1.24e-08
S34	34	16	6.55e-08
S35	35	16	0.00e+00
S36	36	16	1.97e-09
Cl35	35	17	1.09e-08
Cl36	36	17	8.28e-12
Cl37	37	17	8.16e-09
Ar36	36	18	7.61e-07
Ar37	37	18	0.00e+00
Ar38	38	18	5.27e-08
Ar39	39	18	1.49e-13
Ar40	40	18	1.69e-09
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	1.14e-08
K40	40	19	1.72e-10
K41	41	19	1.55e-09
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	5.72e-07
Ca41	41	20	3.54e-11
Ca42	42	20	2.09e-09
Ca43	43	20	4.61e-10
Ca44	44	20	5.33e-09
Ca45	45	20	0.00e+00
Ca46	46	20	1.97e-10
Ca47	47	20	0.00e+00
Ca48	48	20	4.27e-10
Sc45	45	21	2.99e-10
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	9.96e-10
Ti47	47	22	7.67e-10
Ti48	48	22	6.71e-09
Ti49	49	22	9.22e-10
Ti50	50	22	3.69e-09
V50	50	23	2.72e-12

V51	51	23	1.29e-09		Ga72	72	31	0.00e+00
Cr50	50	24	2.17e-09		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	7.84e-10
Cr52	52	24	4.52e-08		Ge71	71	32	0.00e+00
Cr53	53	24	5.23e-09		Ge72	72	32	9.88e-10
Cr54	54	24	2.25e-09		Ge73	73	32	2.95e-10
Mn55	55	25	3.98e-08		Ge74	74	32	1.86e-09
Mn56	56	25	0.00e+00		Ge75	75	32	0.00e+00
Fe54	54	26	2.09e-07		Ge76	76	32	6.50e-11
Fe55	55	26	0.00e+00		Ge77	77	32	0.00e+00
Fe56	56	26	3.46e-06		As75	75	33	1.99e-10
Fe57	57	26	9.77e-08		As76	76	33	0.00e+00
Fe58	58	26	3.18e-08		As77	77	33	0.00e+00
Fe59	59	26	0.00e+00		Se76	76	34	4.15e-10
Fe60	60	26	1.02e-09		Se77	77	34	1.81e-10
Co59	59	27	1.52e-08		Se78	78	34	1.14e-09
Co60	60	27	0.00e+00		Se79	79	34	6.27e-11
Ni58	58	28	1.44e-07		Se80	80	34	1.48e-09
Ni59	59	28	8.50e-11		Se81	81	34	0.00e+00
Ni60	60	28	6.21e-08		Se82	82	34	4.45e-11
Ni61	61	28	4.39e-09		Br79	79	35	1.99e-10
Ni62	62	28	1.17e-08		Br80	80	35	0.00e+00
Ni63	63	28	0.00e+00		Br81	81	35	2.62e-10
Ni64	64	28	7.15e-09		Br82	82	35	0.00e+00
Ni65	65	28	0.00e+00		Br83	83	35	0.00e+00
Ni66	66	28	0.00e+00		Br84	84	35	0.00e+00
Cu63	63	29	3.52e-09		Kr80	80	36	2.03e-11
Cu64	64	29	0.00e+00		Kr81	81	36	8.87e-13
Cu65	65	29	2.73e-09		Kr82	82	36	6.72e-10
Cu66	66	29	0.00e+00		Kr83	83	36	2.83e-10
Cu67	67	29	0.00e+00		Kr84	84	36	1.94e-09
Zn64	64	30	3.35e-09		Kr85	85	36	0.00e+00
Zn65	65	30	0.00e+00		Kr86	86	36	2.69e-09
Zn66	66	30	3.57e-09		Kr87	87	36	0.00e+00
Zn67	67	30	6.74e-10		Kr88	88	36	0.00e+00
Zn68	68	30	3.85e-09		Rb85	85	37	5.25e-10
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	4.80e-11		Rb87	87	37	1.05e-09
Ga69	69	31	5.03e-10		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	4.73e-10
Ga71	71	31	4.44e-10		Sr87	87	38	3.22e-10

Sr88	88	38	7.83e-09		Ru02	102	44	2.07e-10
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	2.48e-11
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	1.94e-09		Rh03	103	45	3.99e-11
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	1.04e-10
Y92	92	39	0.00e+00		Pd05	105	46	3.20e-11
Y93	93	39	0.00e+00		Pd06	106	46	1.34e-10
Zr90	90	40	1.83e-09		Pd07	107	46	2.40e-11
Zr91	91	40	5.29e-10		Pd08	108	46	1.66e-10
Zr92	92	40	8.12e-10		Pd09	109	46	0.00e+00
Zr93	93	40	2.27e-10		Pd10	110	46	2.33e-11
Zr94	94	40	1.05e-09		Ag07	107	47	3.77e-12
Zr95	95	40	0.00e+00		Ag09	109	47	4.93e-11
Zr96	96	40	4.03e-10		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	1.39e-13
Nb93	93	41	7.78e-11		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	1.32e-10
Nb95	95	41	0.00e+00		Cd11	111	48	4.96e-11
Nb96	96	41	0.00e+00		Cd12	112	48	1.85e-10
Nb97	97	41	0.00e+00		Cd13	113	48	5.52e-11
Mo92	92	42	2.90e-12		Cd14	114	48	2.71e-10
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	3.05e-12		Cd16	116	48	4.93e-11
Mo95	95	42	1.35e-10		In13	113	49	0.00e+00
Mo96	96	42	2.29e-10		In15	115	49	5.59e-11
Mo97	97	42	8.49e-11		Sn14	114	50	2.10e-13
Mo98	98	42	2.91e-10		Sn15	115	50	1.09e-13
Mo99	99	42	0.00e+00		Sn16	116	50	3.52e-10
Mo00	100	42	2.56e-11		Sn17	117	50	1.15e-10
Tc97	97	43	0.00e+00		Sn18	118	50	5.48e-10
Tc98	98	43	0.00e+00		Sn19	119	50	1.67e-10
Tc99	99	43	8.04e-12		Sn20	120	50	8.94e-10
Ru96	96	44	7.26e-13		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	1.08e-10
Ru98	98	44	2.51e-13		Sn23	123	50	0.00e+00
Ru99	99	44	3.30e-11		Sn24	124	50	1.11e-11
Ru00	100	44	1.39e-10		Sb21	121	51	7.00e-11
Ru01	101	44	3.45e-11		Sb22	122	51	0.00e+00

Sb23	123	51	2.21e-11			Ce40	140	58	2.56e-09
Sb24	124	51	0.00e+00			Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00			Ce42	142	58	1.40e-10
Te22	122	52	1.01e-10			Ce43	143	58	0.00e+00
Te23	123	52	3.39e-11			Ce44	144	58	0.00e+00
Te24	124	52	2.07e-10			Pr41	141	59	2.73e-10
Te25	125	52	7.15e-11			Pr42	142	59	0.00e+00
Te26	126	52	4.09e-10			Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00			Pr45	145	59	0.00e+00
Te28	128	52	6.05e-11			Nd42	142	60	6.17e-10
Te30	130	52	1.62e-11			Nd43	143	60	1.10e-10
I127	127	53	6.35e-11			Nd44	144	60	3.61e-10
I128	128	53	0.00e+00			Nd45	145	60	6.71e-11
I129	129	53	1.56e-12			Nd46	146	60	3.31e-10
I130	130	53	0.00e+00			Nd47	147	60	0.00e+00
I131	131	53	0.00e+00			Nd48	148	60	6.18e-11
I132	132	53	0.00e+00			Nd49	149	60	0.00e+00
I133	133	53	0.00e+00			Nd50	150	60	2.19e-12
Xe28	128	54	1.29e-10			Pm45	145	61	0.00e+00
Xe29	129	54	6.81e-11			Pm46	146	61	0.00e+00
Xe30	130	54	2.74e-10			Pm47	147	61	0.00e+00
Xe31	131	54	8.91e-11			Pm48	148	61	0.00e+00
Xe32	132	54	5.68e-10			Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00			Pm50	150	61	0.00e+00
Xe34	134	54	1.15e-10			Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00			Sm44	144	62	0.00e+00
Xe36	136	54	1.84e-11			Sm45	145	62	0.00e+00
Cs33	133	55	8.25e-11			Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00			Sm47	147	62	3.82e-11
Cs35	135	55	6.18e-11			Sm48	148	62	8.26e-11
Cs36	136	55	0.00e+00			Sm49	149	62	1.67e-11
Cs37	137	55	0.00e+00			Sm50	150	62	7.11e-11
Ba34	134	56	1.59e-10			Sm51	151	62	0.00e+00
Ba35	135	56	6.02e-11			Sm52	152	62	6.19e-11
Ba36	136	56	5.56e-10			Sm53	153	62	0.00e+00
Ba37	137	56	5.89e-10			Sm54	154	62	2.88e-11
Ba38	138	56	7.02e-09			Eu51	151	63	1.05e-11
Ba39	139	56	0.00e+00			Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00			Eu53	153	63	1.27e-11
La39	139	57	8.39e-10			Eu54	154	63	0.00e+00
La40	140	57	0.00e+00			Eu55	155	63	0.00e+00

Eu56	156	63	0.00e+00
Eu57	157	63	0.00e+00
Gd52	152	64	7.15e-13
Gd53	153	64	0.00e+00
Gd54	154	64	1.54e-11
Gd55	155	64	1.73e-11
Gd56	156	64	5.24e-11
Gd57	157	64	2.42e-11
Gd58	158	64	9.02e-11
Gd59	159	64	0.00e+00
Gd60	160	64	2.08e-11
Tb59	159	65	2.13e-11
Tb60	160	65	0.00e+00
Tb61	161	65	0.00e+00
Dy60	160	66	2.97e-11
Dy61	161	66	1.64e-11
Dy62	162	66	6.64e-11
Dy63	163	66	2.18e-11
Dy64	164	66	1.07e-10
Dy65	165	66	0.00e+00
Dy66	166	66	0.00e+00
Ho63	163	67	0.00e+00
Ho64	164	67	0.00e+00
Ho65	165	67	2.80e-11
Ho66	166	67	0.00e+00
Er64	164	68	1.05e-11
Er65	165	68	0.00e+00
Er66	166	68	4.22e-11
Er67	167	68	2.00e-11
Er68	168	68	8.07e-11
Er69	169	68	0.00e+00
Er70	170	68	4.42e-11
Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	1.68e-11
Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00
Tm73	173	69	0.00e+00
Yb70	170	70	2.51e-11
Yb71	171	70	3.84e-11

Yb72	172	70	9.80e-11
Yb73	173	70	4.55e-11
Yb74	174	70	2.16e-10
Yb75	175	70	0.00e+00
Yb76	176	70	4.83e-11
Yb77	177	70	0.00e+00
Lu75	175	71	2.99e-11
Lu76	176	71	5.12e-12
Lu77	177	71	0.00e+00
Hf76	176	72	3.92e-11
Hf77	177	72	2.65e-11
Hf78	178	72	1.17e-10
Hf79	179	72	4.04e-11
Hf80	180	72	2.21e-10
Hf81	181	72	0.00e+00
Hf82	182	72	1.99e-11
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00
Ta81	181	73	4.61e-11
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	0.00e+00
W181	181	74	0.00e+00
W182	182	74	8.50e-11
W183	183	74	5.82e-11
W184	184	74	1.57e-10
W185	185	74	0.00e+00
W186	186	74	8.48e-11
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	3.10e-11
Re86	186	75	0.00e+00
Re87	187	75	2.27e-11
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	5.47e-11
Os87	187	76	1.48e-11
Os88	188	76	1.37e-10

Isotope	A	Z	YIELD
Os89	189	76	3.00e-11
Os90	190	76	1.47e-10
Os91	191	76	0.00e+00
Os92	192	76	9.84e-11
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	3.10e-11
Ir92	192	77	0.00e+00
Ir93	193	77	4.29e-11
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	3.94e-11
Pt93	193	78	0.00e+00
Pt94	194	78	1.67e-10
Pt95	195	78	6.68e-11
Pt96	196	78	2.14e-10
Pt97	197	78	0.00e+00
Pt98	198	78	2.49e-11
Au97	197	79	6.40e-11
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.94e-10
Hg99	199	80	9.73e-11
Hg00	200	80	3.47e-10
Hg01	201	80	1.51e-10
Hg02	202	80	6.33e-10
Hg03	203	80	0.00e+00
Hg04	204	80	1.98e-11
Tl03	203	81	2.95e-10
Tl04	204	81	0.00e+00
Tl05	205	81	5.75e-10
Pb04	204	82	3.37e-10
Pb05	205	82	2.21e-11
Pb06	206	82	4.15e-09
Pb07	207	82	5.49e-09
Pb08	208	82	1.10e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	1.29e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 1.50; Z = 0.000100 [α/Fe]=0.5; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	5.52e-01
He4	4	2	2.34e-01
C12	12	6	8.26e-03
C13	13	6	7.30e-07
C14	14	6	3.73e-09
N14	14	7	3.16e-05
N15	15	7	1.51e-08
O16	16	8	3.75e-04
O17	17	8	8.93e-07
O18	18	8	6.71e-08
F18	18	9	0.00e+00
F19	19	9	6.00e-07
Ne20	20	10	2.21e-05
Ne21	21	10	2.87e-07
Ne22	22	10	4.90e-04
Na22	22	11	0.00e+00
Na23	23	11	3.77e-06
Na24	24	11	0.00e+00
Mg24	24	12	1.66e-05
Mg25	25	12	3.74e-06
Mg26	26	12	3.27e-06
Al26	26	13	8.35e-09
Al27	27	13	5.61e-07
Si28	28	14	1.31e-05
Si29	29	14	2.48e-07
Si30	30	14	2.01e-07
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	8.09e-08
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	6.77e-06
S33	33	16	2.32e-08
S34	34	16	1.28e-07

S35	35	16	0.00e+00
S36	36	16	1.62e-09
Cl35	35	17	2.19e-08
Cl36	36	17	1.80e-11
Cl37	37	17	1.14e-08
Ar36	36	18	1.53e-06
Ar37	37	18	0.00e+00
Ar38	38	18	1.05e-07
Ar39	39	18	4.64e-13
Ar40	40	18	1.44e-09
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	2.21e-08
K40	40	19	2.07e-10
K41	41	19	2.80e-09
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	1.16e-06
Ca41	41	20	8.07e-11
Ca42	42	20	3.73e-09
Ca43	43	20	8.07e-10
Ca44	44	20	9.51e-09
Ca45	45	20	0.00e+00
Ca46	46	20	1.65e-10
Ca47	47	20	0.00e+00
Ca48	48	20	8.56e-10
Sc45	45	21	4.11e-10
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	1.61e-09
Ti47	47	22	1.37e-09
Ti48	48	22	1.32e-08
Ti49	49	22	1.36e-09
Ti50	50	22	2.26e-09
V50	50	23	5.49e-12
V51	51	23	2.34e-09
Cr50	50	24	4.37e-09
Cr51	51	24	0.00e+00
Cr52	52	24	9.00e-08

Cr53	53	24	1.04e-08
Cr54	54	24	3.88e-09
Mn55	55	25	7.97e-08
Mn56	56	25	0.00e+00
Fe54	54	26	4.21e-07
Fe55	55	26	0.00e+00
Fe56	56	26	6.98e-06
Fe57	57	26	1.98e-07
Fe58	58	26	7.57e-08
Fe59	59	26	0.00e+00
Fe60	60	26	5.35e-09
Co59	59	27	3.41e-08
Co60	60	27	0.00e+00
Ni58	58	28	2.90e-07
Ni59	59	28	1.65e-10
Ni60	60	28	1.27e-07
Ni61	61	28	9.85e-09
Ni62	62	28	2.65e-08
Ni63	63	28	1.85e-13
Ni64	64	28	1.36e-08
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	8.68e-09
Cu64	64	29	0.00e+00
Cu65	65	29	4.41e-09
Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	6.76e-09
Zn65	65	30	0.00e+00
Zn66	66	30	5.73e-09
Zn67	67	30	9.98e-10
Zn68	68	30	4.68e-09
Zn69	69	30	0.00e+00
Zn70	70	30	8.89e-11
Ga69	69	31	5.36e-10
Ga70	70	31	0.00e+00
Ga71	71	31	3.86e-10
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	7.13e-10
Ge71	71	32	0.00e+00

Ge72	72	32	7.95e-10
Ge73	73	32	2.29e-10
Ge74	74	32	1.18e-09
Ge75	75	32	0.00e+00
Ge76	76	32	1.10e-10
Ge77	77	32	0.00e+00
As75	75	33	1.38e-10
As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	2.23e-10
Se77	77	34	1.18e-10
Se78	78	34	5.45e-10
Se79	79	34	2.90e-11
Se80	80	34	7.86e-10
Se81	81	34	0.00e+00
Se82	82	34	7.31e-11
Br79	79	35	1.16e-10
Br80	80	35	0.00e+00
Br81	81	35	1.34e-10
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	1.95e-11
Kr81	81	36	3.38e-13
Kr82	82	36	2.46e-10
Kr83	83	36	1.42e-10
Kr84	84	36	8.21e-10
Kr85	85	36	0.00e+00
Kr86	86	36	4.28e-10
Kr87	87	36	0.00e+00
Kr88	88	36	0.00e+00
Rb85	85	37	1.82e-10
Rb86	86	37	0.00e+00
Rb87	87	37	1.73e-10
Rb88	88	37	0.00e+00
Sr86	86	38	1.26e-10
Sr87	87	38	8.49e-11
Sr88	88	38	1.91e-09
Sr89	89	38	0.00e+00
Sr90	90	38	0.00e+00
Sr91	91	38	0.00e+00

Sr92	92	38	0.00e+00
Y89	89	39	5.00e-10
Y90	90	39	0.00e+00
Y91	91	39	0.00e+00
Y92	92	39	0.00e+00
Y93	93	39	0.00e+00
Zr90	90	40	4.96e-10
Zr91	91	40	1.42e-10
Zr92	92	40	2.25e-10
Zr93	93	40	6.24e-11
Zr94	94	40	2.84e-10
Zr95	95	40	0.00e+00
Zr96	96	40	1.02e-10
Zr97	97	40	0.00e+00
Nb93	93	41	2.34e-11
Nb94	94	41	0.00e+00
Nb95	95	41	0.00e+00
Nb96	96	41	0.00e+00
Nb97	97	41	0.00e+00
Mo92	92	42	5.85e-12
Mo93	93	42	0.00e+00
Mo94	94	42	3.94e-12
Mo95	95	42	3.84e-11
Mo96	96	42	6.35e-11
Mo97	97	42	2.46e-11
Mo98	98	42	7.71e-11
Mo99	99	42	0.00e+00
Mo00	100	42	9.54e-12
Tc97	97	43	0.00e+00
Tc98	98	43	0.00e+00
Tc99	99	43	2.89e-12
Ru96	96	44	1.47e-12
Ru97	97	44	0.00e+00
Ru98	98	44	5.07e-13
Ru99	99	44	9.61e-12
Ru00	100	44	3.50e-11
Ru01	101	44	1.21e-11
Ru02	102	44	5.60e-11
Ru03	103	44	0.00e+00
Ru04	104	44	1.02e-11
Ru05	105	44	0.00e+00

Ru06	106	44	0.00e+00
Rh03	103	45	1.42e-11
Rh05	105	45	0.00e+00
Pd04	104	46	2.67e-11
Pd05	105	46	1.20e-11
Pd06	106	46	3.70e-11
Pd07	107	46	5.77e-12
Pd08	108	46	4.44e-11
Pd09	109	46	0.00e+00
Pd10	110	46	7.75e-12
Ag07	107	47	4.39e-12
Ag09	109	47	1.49e-11
Ag11	111	47	0.00e+00
Cd08	108	48	2.39e-13
Cd09	109	48	0.00e+00
Cd10	110	48	3.36e-11
Cd11	111	48	1.45e-11
Cd12	112	48	4.85e-11
Cd13	113	48	1.57e-11
Cd14	114	48	6.97e-11
Cd15	115	48	0.00e+00
Cd16	116	48	1.40e-11
In13	113	49	1.34e-13
In15	115	49	1.55e-11
Sn14	114	50	4.25e-13
Sn15	115	50	2.21e-13
Sn16	116	50	9.01e-11
Sn17	117	50	3.13e-11
Sn18	118	50	1.43e-10
Sn19	119	50	4.44e-11
Sn20	120	50	2.33e-10
Sn21	121	50	0.00e+00
Sn22	122	50	3.10e-11
Sn23	123	50	0.00e+00
Sn24	124	50	5.58e-12
Sb21	121	51	1.95e-11
Sb22	122	51	0.00e+00
Sb23	123	51	7.65e-12
Sb24	124	51	0.00e+00
Sb25	125	51	0.00e+00
Te22	122	52	2.63e-11

Te23	123	52	8.98e-12
Te24	124	52	5.40e-11
Te25	125	52	2.29e-11
Te26	126	52	1.10e-10
Te27	127	52	0.00e+00
Te28	128	52	4.05e-11
Te30	130	52	3.26e-11
I127	127	53	3.17e-11
I128	128	53	0.00e+00
I129	129	53	4.14e-13
I130	130	53	0.00e+00
I131	131	53	0.00e+00
I132	132	53	0.00e+00
I133	133	53	0.00e+00
Xe28	128	54	3.17e-11
Xe29	129	54	4.12e-11
Xe30	130	54	6.79e-11
Xe31	131	54	4.14e-11
Xe32	132	54	1.60e-10
Xe33	133	54	0.00e+00
Xe34	134	54	4.02e-11
Xe35	135	54	0.00e+00
Xe36	136	54	1.01e-11
Cs33	133	55	2.58e-11
Cs34	134	55	0.00e+00
Cs35	135	55	1.62e-11
Cs36	136	55	0.00e+00
Cs37	137	55	0.00e+00
Ba34	134	56	3.96e-11
Ba35	135	56	1.89e-11
Ba36	136	56	1.38e-10
Ba37	137	56	1.48e-10
Ba38	138	56	1.90e-09
Ba39	139	56	0.00e+00
Ba40	140	56	0.00e+00
La39	139	57	2.32e-10
La40	140	57	0.00e+00
Ce40	140	58	7.25e-10
Ce41	141	58	0.00e+00
Ce42	142	58	5.27e-11
Ce43	143	58	0.00e+00

Ce44	144	58	0.00e+00		Gd54	154	64	4.80e-12
Pr41	141	59	8.04e-11		Gd55	155	64	6.05e-12
Pr42	142	59	0.00e+00		Gd56	156	64	1.69e-11
Pr43	143	59	0.00e+00		Gd57	157	64	8.29e-12
Pr45	145	59	0.00e+00		Gd58	158	64	2.89e-11
Nd42	142	60	1.74e-10		Gd59	159	64	0.00e+00
Nd43	143	60	3.30e-11		Gd60	160	64	7.42e-12
Nd44	144	60	1.07e-10		Tb59	159	65	7.67e-12
Nd45	145	60	2.06e-11		Tb60	160	65	0.00e+00
Nd46	146	60	9.83e-11		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	9.22e-12
Nd48	148	60	1.83e-11		Dy61	161	66	6.49e-12
Nd49	149	60	0.00e+00		Dy62	162	66	2.22e-11
Nd50	150	60	1.70e-12		Dy63	163	66	8.60e-12
Pm45	145	61	0.00e+00		Dy64	164	66	3.38e-11
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	0.00e+00
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	1.03e-11
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	1.73e-13		Er64	164	68	3.41e-12
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	1.47e-11
Sm47	147	62	1.17e-11		Er67	167	68	7.29e-12
Sm48	148	62	2.58e-11		Er68	168	68	2.49e-11
Sm49	149	62	5.62e-12		Er69	169	68	0.00e+00
Sm50	150	62	2.15e-11		Er70	170	68	1.20e-11
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	1.99e-11		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	5.54e-12
Sm54	154	62	9.13e-12		Tm70	170	69	0.00e+00
Eu51	151	63	4.04e-12		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00
Eu53	153	63	4.78e-12		Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00		Yb70	170	70	7.50e-12
Eu55	155	63	0.00e+00		Yb71	171	70	1.13e-11
Eu56	156	63	0.00e+00		Yb72	172	70	2.94e-11
Eu57	157	63	0.00e+00		Yb73	173	70	1.41e-11
Gd52	152	64	2.24e-13		Yb74	174	70	6.43e-11
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00

Yb76	176	70	1.43e-11
Yb77	177	70	0.00e+00
Lu75	175	71	9.43e-12
Lu76	176	71	1.51e-12
Lu77	177	71	0.00e+00
Hf76	176	72	1.15e-11
Hf77	177	72	8.35e-12
Hf78	178	72	3.51e-11
Hf79	179	72	1.24e-11
Hf80	180	72	6.57e-11
Hf81	181	72	0.00e+00
Hf82	182	72	5.87e-12
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00
Ta81	181	73	1.38e-11
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	0.00e+00
W181	181	74	0.00e+00
W182	182	74	2.56e-11
W183	183	74	1.69e-11
W184	184	74	4.48e-11
W185	185	74	0.00e+00
W186	186	74	2.36e-11
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	8.91e-12
Re86	186	75	0.00e+00
Re87	187	75	6.65e-12
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	1.64e-11
Os87	187	76	5.00e-12
Os88	188	76	4.13e-11
Os89	189	76	1.13e-11
Os90	190	76	4.66e-11
Os91	191	76	0.00e+00
Os92	192	76	3.38e-11

Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	1.49e-11
Ir92	192	77	0.00e+00
Ir93	193	77	2.23e-11
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	1.23e-11
Pt93	193	78	0.00e+00
Pt94	194	78	6.06e-11
Pt95	195	78	3.14e-11
Pt96	196	78	7.03e-11
Pt97	197	78	0.00e+00
Pt98	198	78	9.65e-12
Au97	197	79	2.32e-11
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	5.47e-11
Hg99	199	80	2.83e-11
Hg00	200	80	9.66e-11
Hg01	201	80	4.27e-11
Hg02	202	80	1.77e-10
Hg03	203	80	0.00e+00
Hg04	204	80	6.74e-12
Tl03	203	81	8.34e-11
Tl04	204	81	0.00e+00
Tl05	205	81	1.57e-10
Pb04	204	82	9.22e-11
Pb05	205	82	7.79e-12
Pb06	206	82	1.39e-09
Pb07	207	82	1.93e-09
Pb08	208	82	6.37e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	8.26e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 1.50; Z = 0.000100 [α/Fe]=0.5; IRV = 60 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	5.74e-01
He4	4	2	2.41e-01
C12	12	6	7.77e-03
C13	13	6	8.87e-07
C14	14	6	3.57e-09
N14	14	7	3.33e-05
N15	15	7	1.51e-08
O16	16	8	3.74e-04
O17	17	8	9.04e-07
O18	18	8	6.58e-08
F18	18	9	0.00e+00
F19	19	9	6.20e-07
Ne20	20	10	2.28e-05
Ne21	21	10	2.77e-07
Ne22	22	10	4.79e-04
Na22	22	11	0.00e+00
Na23	23	11	3.63e-06
Na24	24	11	0.00e+00
Mg24	24	12	1.74e-05
Mg25	25	12	3.69e-06
Mg26	26	12	2.69e-06
Al26	26	13	8.50e-09
Al27	27	13	5.40e-07
Si28	28	14	1.36e-05
Si29	29	14	2.53e-07
Si30	30	14	2.03e-07
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	8.49e-08
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	7.01e-06
S33	33	16	2.34e-08
S34	34	16	1.29e-07
S35	35	16	0.00e+00
S36	36	16	1.60e-09
Cl35	35	17	2.26e-08
Cl36	36	17	1.47e-11

Isotope	A	Z	YIELD [$M_\odot$]
Cl37	37	17	1.46e-08
Ar36	36	18	1.59e-06
Ar37	37	18	0.00e+00
Ar38	38	18	1.09e-07
Ar39	39	18	3.98e-13
Ar40	40	18	2.04e-09
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	2.32e-08
K40	40	19	2.64e-10
K41	41	19	2.91e-09
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	1.20e-06
Ca41	41	20	6.45e-11
Ca42	42	20	3.98e-09
Ca43	43	20	8.72e-10
Ca44	44	20	1.03e-08
Ca45	45	20	0.00e+00
Ca46	46	20	1.83e-10
Ca47	47	20	0.00e+00
Ca48	48	20	8.85e-10
Sc45	45	21	4.89e-10
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	1.83e-09
Ti47	47	22	1.49e-09
Ti48	48	22	1.38e-08
Ti49	49	22	1.59e-09
Ti50	50	22	4.00e-09
V50	50	23	5.70e-12
V51	51	23	2.51e-09
Cr50	50	24	4.54e-09
Cr51	51	24	0.00e+00
Cr52	52	24	9.36e-08
Cr53	53	24	1.08e-08
Cr54	54	24	4.12e-09
Mn55	55	25	8.24e-08
Mn56	56	25	0.00e+00

Fe54	54	26	4.37e-07		Ge76	76	32	1.20e-10
Fe55	55	26	0.00e+00		Ge77	77	32	0.00e+00
Fe56	56	26	7.22e-06		As75	75	33	2.72e-10
Fe57	57	26	2.00e-07		As76	76	33	0.00e+00
Fe58	58	26	7.00e-08		As77	77	33	0.00e+00
Fe59	59	26	0.00e+00		Se76	76	34	5.23e-10
Fe60	60	26	2.64e-09		Se77	77	34	2.38e-10
Co59	59	27	3.30e-08		Se78	78	34	1.33e-09
Co60	60	27	0.00e+00		Se79	79	34	7.20e-11
Ni58	58	28	3.00e-07		Se80	80	34	1.71e-09
Ni59	59	28	1.32e-10		Se81	81	34	0.00e+00
Ni60	60	28	1.30e-07		Se82	82	34	7.79e-11
Ni61	61	28	9.41e-09		Br79	79	35	2.45e-10
Ni62	62	28	2.60e-08		Br80	80	35	0.00e+00
Ni63	63	28	1.21e-13		Br81	81	35	2.97e-10
Ni64	64	28	1.76e-08		Br82	82	35	0.00e+00
Ni65	65	28	0.00e+00		Br83	83	35	0.00e+00
Ni66	66	28	0.00e+00		Br84	84	35	0.00e+00
Cu63	63	29	8.55e-09		Kr80	80	36	2.95e-11
Cu64	64	29	0.00e+00		Kr81	81	36	8.83e-13
Cu65	65	29	6.00e-09		Kr82	82	36	6.78e-10
Cu66	66	29	0.00e+00		Kr83	83	36	3.08e-10
Cu67	67	29	0.00e+00		Kr84	84	36	1.98e-09
Zn64	64	30	7.01e-09		Kr85	85	36	0.00e+00
Zn65	65	30	0.00e+00		Kr86	86	36	1.35e-09
Zn66	66	30	7.30e-09		Kr87	87	36	0.00e+00
Zn67	67	30	1.35e-09		Kr88	88	36	0.00e+00
Zn68	68	30	7.09e-09		Rb85	85	37	5.05e-10
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	9.45e-11		Rb87	87	37	5.48e-10
Ga69	69	31	8.90e-10		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	4.29e-10
Ga71	71	31	7.25e-10		Sr87	87	38	2.90e-10
Ga72	72	31	0.00e+00		Sr88	88	38	6.62e-09
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	1.30e-09		Sr90	90	38	0.00e+00
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	1.50e-09		Sr92	92	38	0.00e+00
Ge73	73	32	4.39e-10		Y89	89	39	1.73e-09
Ge74	74	32	2.49e-09		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00

Y92	92	39	0.00e+00			Pd05	105	46	3.10e-11
Y93	93	39	0.00e+00			Pd06	106	46	1.21e-10
Zr90	90	40	1.68e-09			Pd07	107	46	2.11e-11
Zr91	91	40	4.82e-10			Pd08	108	46	1.49e-10
Zr92	92	40	7.56e-10			Pd09	109	46	0.00e+00
Zr93	93	40	2.12e-10			Pd10	110	46	1.83e-11
Zr94	94	40	9.69e-10			Ag07	107	47	5.71e-12
Zr95	95	40	0.00e+00			Ag09	109	47	4.54e-11
Zr96	96	40	3.17e-10			Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00			Cd08	108	48	2.58e-13
Nb93	93	41	7.44e-11			Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00			Cd10	110	48	1.19e-10
Nb95	95	41	0.00e+00			Cd11	111	48	4.50e-11
Nb96	96	41	0.00e+00			Cd12	112	48	1.64e-10
Nb97	97	41	0.00e+00			Cd13	113	48	4.98e-11
Mo92	92	42	6.08e-12			Cd14	114	48	2.40e-10
Mo93	93	42	0.00e+00			Cd15	115	48	0.00e+00
Mo94	94	42	4.78e-12			Cd16	116	48	3.66e-11
Mo95	95	42	1.20e-10			In13	113	49	1.39e-13
Mo96	96	42	2.17e-10			In15	115	49	4.96e-11
Mo97	97	42	7.98e-11			Sn14	114	50	4.42e-13
Mo98	98	42	2.65e-10			Sn15	115	50	2.29e-13
Mo99	99	42	0.00e+00			Sn16	116	50	3.17e-10
Mo00	100	42	2.09e-11			Sn17	117	50	1.03e-10
Tc97	97	43	0.00e+00			Sn18	118	50	4.87e-10
Tc98	98	43	0.00e+00			Sn19	119	50	1.49e-10
Tc99	99	43	7.06e-12			Sn20	120	50	7.88e-10
Ru96	96	44	1.52e-12			Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00			Sn22	122	50	7.71e-11
Ru98	98	44	5.26e-13			Sn23	123	50	0.00e+00
Ru99	99	44	3.09e-11			Sn24	124	50	6.26e-12
Ru00	100	44	1.25e-10			Sb21	121	51	6.15e-11
Ru01	101	44	3.30e-11			Sb22	122	51	0.00e+00
Ru02	102	44	1.87e-10			Sb23	123	51	1.76e-11
Ru03	103	44	0.00e+00			Sb24	124	51	0.00e+00
Ru04	104	44	2.07e-11			Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00			Te22	122	52	9.02e-11
Ru06	106	44	0.00e+00			Te23	123	52	3.09e-11
Rh03	103	45	3.82e-11			Te24	124	52	1.82e-10
Rh05	105	45	0.00e+00			Te25	125	52	6.56e-11
Pd04	104	46	9.42e-11			Te26	126	52	3.52e-10

Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	6.40e-11		Nd42	142	60	5.49e-10
Te30	130	52	3.38e-11		Nd43	143	60	9.50e-11
I127	127	53	6.47e-11		Nd44	144	60	3.12e-10
I128	128	53	0.00e+00		Nd45	145	60	5.85e-11
I129	129	53	1.14e-12		Nd46	146	60	2.87e-10
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	4.52e-11
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	2.35e-12
Xe28	128	54	1.08e-10		Pm45	145	61	0.00e+00
Xe29	129	54	7.41e-11		Pm46	146	61	0.00e+00
Xe30	130	54	2.27e-10		Pm47	147	61	0.00e+00
Xe31	131	54	8.75e-11		Pm48	148	61	0.00e+00
Xe32	132	54	4.80e-10		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	8.47e-11		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	1.80e-13
Xe36	136	54	1.08e-11		Sm45	145	62	0.00e+00
Cs33	133	55	7.01e-11		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	3.29e-11
Cs35	135	55	4.68e-11		Sm48	148	62	7.90e-11
Cs36	136	55	0.00e+00		Sm49	149	62	1.48e-11
Cs37	137	55	0.00e+00		Sm50	150	62	6.23e-11
Ba34	134	56	1.34e-10		Sm51	151	62	0.00e+00
Ba35	135	56	5.34e-11		Sm52	152	62	5.50e-11
Ba36	136	56	4.60e-10		Sm53	153	62	0.00e+00
Ba37	137	56	4.64e-10		Sm54	154	62	2.14e-11
Ba38	138	56	5.99e-09		Eu51	151	63	9.79e-12
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	1.17e-11
La39	139	57	7.20e-10		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	2.18e-09		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	1.18e-10		Gd52	152	64	6.51e-13
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	1.41e-11
Pr41	141	59	2.30e-10		Gd55	155	64	1.50e-11
Pr42	142	59	0.00e+00		Gd56	156	64	4.59e-11
Pr43	143	59	0.00e+00		Gd57	157	64	2.16e-11

Gd58	158	64	8.06e-11		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	3.39e-11
Gd60	160	64	1.59e-11		Hf77	177	72	2.25e-11
Tb59	159	65	1.95e-11		Hf78	178	72	9.98e-11
Tb60	160	65	0.00e+00		Hf79	179	72	3.48e-11
Tb61	161	65	0.00e+00		Hf80	180	72	1.92e-10
Dy60	160	66	2.69e-11		Hf81	181	72	0.00e+00
Dy61	161	66	1.53e-11		Hf82	182	72	1.41e-11
Dy62	162	66	5.98e-11		Hf83	183	72	0.00e+00
Dy63	163	66	2.04e-11		Hf84	184	72	0.00e+00
Dy64	164	66	9.47e-11		Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00		Ta80	180	73	0.00e+00
Dy66	166	66	0.00e+00		Ta81	181	73	3.96e-11
Ho63	163	67	0.00e+00		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta93	183	73	0.00e+00
Ho65	165	67	2.62e-11		Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00		W180	180	74	0.00e+00
Er64	164	68	9.78e-12		W181	181	74	0.00e+00
Er65	165	68	0.00e+00		W182	182	74	7.77e-11
Er66	166	68	4.05e-11		W183	183	74	4.93e-11
Er67	167	68	1.88e-11		W184	184	74	1.34e-10
Er68	168	68	7.16e-11		W185	185	74	0.00e+00
Er69	169	68	0.00e+00		W186	186	74	6.56e-11
Er70	170	68	3.03e-11		W187	187	74	0.00e+00
Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	2.57e-11
Tm69	169	69	1.47e-11		Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00		Re87	187	75	1.77e-11
Tm71	171	69	0.00e+00		Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00		Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00		Os86	186	76	5.19e-11
Yb70	170	70	2.28e-11		Os87	187	76	1.50e-11
Yb71	171	70	3.09e-11		Os88	188	76	1.21e-10
Yb72	172	70	8.54e-11		Os89	189	76	2.78e-11
Yb73	173	70	3.98e-11		Os90	190	76	1.29e-10
Yb74	174	70	1.87e-10		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	7.88e-11
Yb76	176	70	3.38e-11		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	2.59e-11		Ir91	191	77	3.08e-11
Lu76	176	71	4.38e-12		Ir92	192	77	0.00e+00

Isotope	A	Z	YIELD
Ir93	193	77	4.27e-11
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	3.79e-11
Pt93	193	78	0.00e+00
Pt94	194	78	1.52e-10
Pt95	195	78	6.70e-11
Pt96	196	78	1.94e-10
Pt97	197	78	0.00e+00
Pt98	198	78	1.91e-11
Au97	197	79	5.93e-11
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.73e-10
Hg99	199	80	8.48e-11
Hg00	200	80	2.97e-10
Hg01	201	80	1.29e-10
Hg02	202	80	5.41e-10
Hg03	203	80	0.00e+00
Hg04	204	80	1.42e-11
Tl03	203	81	2.51e-10
Tl04	204	81	0.00e+00
Tl05	205	81	4.62e-10
Pb04	204	82	2.88e-10
Pb05	205	82	1.83e-11
Pb06	206	82	3.15e-09
Pb07	207	82	4.41e-09
Pb08	208	82	5.00e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	6.27e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M_α = 1.50; Z = 0.000300 [α/Fe]=0.5; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [M_α]

H	1	1	5.90e-01
He4	4	2	2.39e-01
C12	12	6	6.08e-03
C13	13	6	1.48e-06
C14	14	6	2.40e-10
N14	14	7	5.18e-05
N15	15	7	3.58e-08
O16	16	8	5.26e-04
O17	17	8	1.88e-06
O18	18	8	1.73e-07
F18	18	9	0.00e+00
F19	19	9	6.50e-07
Ne20	20	10	6.18e-05
Ne21	21	10	1.46e-07
Ne22	22	10	2.93e-04
Na22	22	11	0.00e+00
Na23	23	11	2.63e-06
Na24	24	11	0.00e+00
Mg24	24	12	3.47e-05
Mg25	25	12	2.83e-06
Mg26	26	12	2.85e-06
Al26	26	13	1.64e-08
Al27	27	13	1.42e-06
Si28	28	14	4.00e-05
Si29	29	14	7.07e-07
Si30	30	14	5.43e-07
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	2.23e-07
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	2.09e-05
S33	33	16	6.53e-08
S34	34	16	3.65e-07
S35	35	16	0.00e+00
S36	36	16	4.59e-09
Cl35	35	17	6.78e-08
Cl36	36	17	3.68e-11
Cl37	37	17	3.01e-08
Ar36	36	18	4.76e-06
Ar37	37	18	0.00e+00

Ar38	38	18	3.07e-07
Ar39	39	18	6.34e-13
Ar40	40	18	7.03e-09
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	6.59e-08
K40	40	19	4.55e-10
K41	41	19	7.45e-09
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	3.58e-06
Ca41	41	20	1.65e-10
Ca42	42	20	1.01e-08
Ca43	43	20	2.15e-09
Ca44	44	20	2.88e-08
Ca45	45	20	0.00e+00
Ca46	46	20	1.20e-09
Ca47	47	20	0.00e+00
Ca48	48	20	2.68e-09
Sc45	45	21	1.11e-09
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	4.97e-09
Ti47	47	22	4.31e-09
Ti48	48	22	4.12e-08
Ti49	49	22	4.13e-09
Ti50	50	22	7.02e-09
V50	50	23	1.72e-11
V51	51	23	7.28e-09
Cr50	50	24	1.37e-08
Cr51	51	24	0.00e+00
Cr52	52	24	2.79e-07
Cr53	53	24	3.22e-08
Cr54	54	24	1.02e-08
Mn55	55	25	2.47e-07
Mn56	56	25	0.00e+00
Fe54	54	26	1.32e-06
Fe55	55	26	0.00e+00
Fe56	56	26	2.16e-05

Fe57	57	26	5.69e-07
Fe58	58	26	1.36e-07
Fe59	59	26	0.00e+00
Fe60	60	26	2.11e-08
Co59	59	27	7.98e-08
Co60	60	27	0.00e+00
Ni58	58	28	9.04e-07
Ni59	59	28	3.94e-10
Ni60	60	28	3.79e-07
Ni61	61	28	2.28e-08
Ni62	62	28	6.54e-08
Ni63	63	28	1.69e-13
Ni64	64	28	4.24e-08
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	1.90e-08
Cu64	64	29	0.00e+00
Cu65	65	29	1.45e-08
Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	2.05e-08
Zn65	65	30	0.00e+00
Zn66	66	30	1.86e-08
Zn67	67	30	3.32e-09
Zn68	68	30	1.80e-08
Zn69	69	30	0.00e+00
Zn70	70	30	3.13e-10
Ga69	69	31	2.26e-09
Ga70	70	31	0.00e+00
Ga71	71	31	1.95e-09
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	3.36e-09
Ge71	71	32	0.00e+00
Ge72	72	32	3.97e-09
Ge73	73	32	1.15e-09
Ge74	74	32	6.63e-09
Ge75	75	32	0.00e+00
Ge76	76	32	3.94e-10
Ge77	77	32	0.00e+00
As75	75	33	7.34e-10

As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	1.41e-09
Se77	77	34	6.58e-10
Se78	78	34	3.71e-09
Se79	79	34	1.73e-10
Se80	80	34	4.69e-09
Se81	81	34	0.00e+00
Se82	82	34	2.81e-10
Br79	79	35	6.99e-10
Br80	80	35	0.00e+00
Br81	81	35	8.39e-10
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	1.07e-10
Kr81	81	36	5.42e-12
Kr82	82	36	2.08e-09
Kr83	83	36	9.35e-10
Kr84	84	36	5.45e-09
Kr85	85	36	0.00e+00
Kr86	86	36	4.88e-09
Kr87	87	36	0.00e+00
Kr88	88	36	0.00e+00
Rb85	85	37	1.22e-09
Rb86	86	37	0.00e+00
Rb87	87	37	2.01e-09
Rb88	88	37	0.00e+00
Sr86	86	38	1.31e-09
Sr87	87	38	8.07e-10
Sr88	88	38	8.79e-09
Sr89	89	38	0.00e+00
Sr90	90	38	0.00e+00
Sr91	91	38	0.00e+00
Sr92	92	38	0.00e+00
Y89	89	39	1.86e-09
Y90	90	39	0.00e+00
Y91	91	39	0.00e+00
Y92	92	39	0.00e+00
Y93	93	39	0.00e+00
Zr90	90	40	1.66e-09

Zr91	91	40	4.41e-10
Zr92	92	40	6.57e-10
Zr93	93	40	1.70e-10
Zr94	94	40	8.19e-10
Zr95	95	40	0.00e+00
Zr96	96	40	2.59e-10
Zr97	97	40	0.00e+00
Nb93	93	41	7.48e-11
Nb94	94	41	0.00e+00
Nb95	95	41	0.00e+00
Nb96	96	41	0.00e+00
Nb97	97	41	0.00e+00
Mo92	92	42	1.83e-11
Mo93	93	42	0.00e+00
Mo94	94	42	1.37e-11
Mo95	95	42	1.10e-10
Mo96	96	42	1.80e-10
Mo97	97	42	7.14e-11
Mo98	98	42	2.41e-10
Mo99	99	42	0.00e+00
Mo00	100	42	2.55e-11
Tc97	97	43	0.00e+00
Tc98	98	43	0.00e+00
Tc99	99	43	7.74e-12
Ru96	96	44	4.59e-12
Ru97	97	44	0.00e+00
Ru98	98	44	1.59e-12
Ru99	99	44	3.19e-11
Ru00	100	44	1.11e-10
Ru01	101	44	3.77e-11
Ru02	102	44	1.70e-10
Ru03	103	44	0.00e+00
Ru04	104	44	2.94e-11
Ru05	105	44	0.00e+00
Ru06	106	44	0.00e+00
Rh03	103	45	4.37e-11
Rh05	105	45	0.00e+00
Pd04	104	46	8.06e-11
Pd05	105	46	3.65e-11
Pd06	106	46	1.11e-10
Pd07	107	46	1.69e-11

Pd08	108	46	1.34e-10		I127	127	53	9.82e-11
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	2.12e-11		I129	129	53	1.16e-12
Ag07	107	47	1.38e-11		I130	130	53	0.00e+00
Ag09	109	47	4.54e-11		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	7.90e-13		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	9.66e-11
Cd10	110	48	1.02e-10		Xe29	129	54	1.28e-10
Cd11	111	48	4.37e-11		Xe30	130	54	2.06e-10
Cd12	112	48	1.45e-10		Xe31	131	54	1.27e-10
Cd13	113	48	4.71e-11		Xe32	132	54	4.78e-10
Cd14	114	48	2.08e-10		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	9.84e-11
Cd16	116	48	3.18e-11		Xe35	135	54	0.00e+00
In13	113	49	4.18e-13		Xe36	136	54	6.71e-11
In15	115	49	4.66e-11		Cs33	133	55	7.81e-11
Sn14	114	50	1.33e-12		Cs34	134	55	0.00e+00
Sn15	115	50	6.92e-13		Cs35	135	55	4.05e-11
Sn16	116	50	2.72e-10		Cs36	136	55	0.00e+00
Sn17	117	50	9.21e-11		Cs37	137	55	0.00e+00
Sn18	118	50	4.17e-10		Ba34	134	56	1.21e-10
Sn19	119	50	1.29e-10		Ba35	135	56	5.95e-11
Sn20	120	50	6.68e-10		Ba36	136	56	4.22e-10
Sn21	121	50	0.00e+00		Ba37	137	56	4.19e-10
Sn22	122	50	6.97e-11		Ba38	138	56	5.37e-09
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00
Sn24	124	50	2.53e-11		Ba40	140	56	0.00e+00
Sb21	121	51	5.69e-11		La39	139	57	6.50e-10
Sb22	122	51	0.00e+00		La40	140	57	0.00e+00
Sb23	123	51	2.09e-11		Ce40	140	58	2.11e-09
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	8.95e-11
Te22	122	52	7.50e-11		Ce43	143	58	0.00e+00
Te23	123	52	2.55e-11		Ce44	144	58	0.00e+00
Te24	124	52	1.56e-10		Pr41	141	59	2.21e-10
Te25	125	52	6.84e-11		Pr42	142	59	0.00e+00
Te26	126	52	3.37e-10		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	1.24e-10		Nd42	142	60	5.32e-10
Te30	130	52	1.01e-10		Nd43	143	60	9.37e-11

Nd44	144	60	2.96e-10		Tb59	159	65	2.05e-11
Nd45	145	60	5.72e-11		Tb60	160	65	0.00e+00
Nd46	146	60	2.73e-10		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	2.39e-11
Nd48	148	60	4.56e-11		Dy61	161	66	1.77e-11
Nd49	149	60	0.00e+00		Dy62	162	66	5.92e-11
Nd50	150	60	4.29e-12		Dy63	163	66	2.41e-11
Pm45	145	61	0.00e+00		Dy64	164	66	9.72e-11
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	0.00e+00
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	2.93e-11
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	5.41e-13		Er64	164	68	8.61e-12
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	4.08e-11
Sm47	147	62	3.34e-11		Er67	167	68	2.07e-11
Sm48	148	62	7.05e-11		Er68	168	68	7.37e-11
Sm49	149	62	1.54e-11		Er69	169	68	0.00e+00
Sm50	150	62	5.78e-11		Er70	170	68	3.60e-11
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	5.39e-11		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	1.69e-11
Sm54	154	62	2.50e-11		Tm70	170	69	0.00e+00
Eu51	151	63	1.12e-11		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00
Eu53	153	63	1.33e-11		Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00		Yb70	170	70	2.21e-11
Eu55	155	63	0.00e+00		Yb71	171	70	3.50e-11
Eu56	156	63	0.00e+00		Yb72	172	70	8.43e-11
Eu57	157	63	0.00e+00		Yb73	173	70	4.02e-11
Gd52	152	64	5.68e-13		Yb74	174	70	1.86e-10
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00
Gd54	154	64	1.26e-11		Yb76	176	70	3.56e-11
Gd55	155	64	1.68e-11		Yb77	177	70	0.00e+00
Gd56	156	64	4.50e-11		Lu75	175	71	2.76e-11
Gd57	157	64	2.21e-11		Lu76	176	71	1.33e-11
Gd58	158	64	7.54e-11		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	1.15e-11
Gd60	160	64	1.99e-11		Hf77	177	72	2.49e-11

Isotope	A	Z	Yield
Hf78	178	72	9.97e-11
Hf79	179	72	3.49e-11
Hf80	180	72	1.88e-10
Hf81	181	72	0.00e+00
Hf82	182	72	1.35e-11
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00
Ta81	181	73	4.03e-11
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	0.00e+00
W181	181	74	0.00e+00
W182	182	74	7.45e-11
W183	183	74	5.07e-11
W184	184	74	1.38e-10
W185	185	74	0.00e+00
W186	186	74	7.13e-11
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	2.83e-11
Re86	186	75	0.00e+00
Re87	187	75	2.02e-11
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	4.79e-11
Os87	187	76	1.43e-11
Os88	188	76	1.18e-10
Os89	189	76	3.31e-11
Os90	190	76	1.36e-10
Os91	191	76	0.00e+00
Os92	192	76	9.67e-11
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	4.49e-11
Ir92	192	77	0.00e+00
Ir93	193	77	6.68e-11
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00

Isotope	A	Z	Yield
Pt92	192	78	3.36e-11
Pt93	193	78	0.00e+00
Pt94	194	78	1.70e-10
Pt95	195	78	9.19e-11
Pt96	196	78	2.13e-10
Pt97	197	78	0.00e+00
Pt98	198	78	2.52e-11
Au97	197	79	7.22e-11
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.78e-10
Hg99	199	80	9.22e-11
Hg00	200	80	3.11e-10
Hg01	201	80	1.35e-10
Hg02	202	80	5.63e-10
Hg03	203	80	0.00e+00
Hg04	204	80	1.68e-11
Tl03	203	81	2.61e-10
Tl04	204	81	0.00e+00
Tl05	205	81	5.37e-10
Pb04	204	82	3.14e-10
Pb05	205	82	2.63e-11
Pb06	206	82	4.05e-09
Pb07	207	82	5.43e-09
Pb08	208	82	1.44e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	1.47e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 1.50; Z = 0.000300 [α/Fe]=0.5; IRV = 10 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	5.91e-01
He4	4	2	2.40e-01
C12	12	6	6.03e-03

C13	13	6	1.34e-06
C14	14	6	1.67e-10
N14	14	7	4.76e-05
N15	15	7	3.60e-08
O16	16	8	5.25e-04
O17	17	8	1.85e-06
O18	18	8	1.75e-07
F18	18	9	0.00e+00
F19	19	9	6.61e-07
Ne20	20	10	6.18e-05
Ne21	21	10	1.39e-07
Ne22	22	10	2.86e-04
Na22	22	11	0.00e+00
Na23	23	11	2.45e-06
Na24	24	11	0.00e+00
Mg24	24	12	3.46e-05
Mg25	25	12	2.78e-06
Mg26	26	12	2.69e-06
Al26	26	13	1.27e-08
Al27	27	13	1.43e-06
Si28	28	14	4.01e-05
Si29	29	14	7.07e-07
Si30	30	14	5.37e-07
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	1.86e-07
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	2.09e-05
S33	33	16	6.55e-08
S34	34	16	3.62e-07
S35	35	16	0.00e+00
S36	36	16	3.46e-09
Cl35	35	17	6.78e-08
Cl36	36	17	3.36e-11
Cl37	37	17	3.23e-08
Ar36	36	18	4.77e-06
Ar37	37	18	0.00e+00
Ar38	38	18	3.11e-07
Ar39	39	18	4.72e-13
Ar40	40	18	4.29e-09

Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	6.67e-08
K40	40	19	4.76e-10
K41	41	19	7.33e-09
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	3.58e-06
Ca41	41	20	1.50e-10
Ca42	42	20	1.01e-08
Ca43	43	20	2.17e-09
Ca44	44	20	2.89e-08
Ca45	45	20	0.00e+00
Ca46	46	20	6.07e-10
Ca47	47	20	0.00e+00
Ca48	48	20	2.65e-09
Sc45	45	21	1.13e-09
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	4.94e-09
Ti47	47	22	4.25e-09
Ti48	48	22	4.11e-08
Ti49	49	22	3.89e-09
Ti50	50	22	6.24e-09
V50	50	23	1.72e-11
V51	51	23	7.26e-09
Cr50	50	24	1.37e-08
Cr51	51	24	0.00e+00
Cr52	52	24	2.79e-07
Cr53	53	24	3.23e-08
Cr54	54	24	1.04e-08
Mn55	55	25	2.47e-07
Mn56	56	25	0.00e+00
Fe54	54	26	1.32e-06
Fe55	55	26	0.00e+00
Fe56	56	26	2.17e-05
Fe57	57	26	5.72e-07
Fe58	58	26	1.52e-07
Fe59	59	26	0.00e+00

Fe60	60	26	1.51e-08
Co59	59	27	8.60e-08
Co60	60	27	0.00e+00
Ni58	58	28	9.06e-07
Ni59	59	28	3.44e-10
Ni60	60	28	3.85e-07
Ni61	61	28	2.44e-08
Ni62	62	28	6.90e-08
Ni63	63	28	1.62e-13
Ni64	64	28	3.77e-08
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	2.10e-08
Cu64	64	29	0.00e+00
Cu65	65	29	1.23e-08
Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	2.07e-08
Zn65	65	30	0.00e+00
Zn66	66	30	1.64e-08
Zn67	67	30	2.79e-09
Zn68	68	30	1.34e-08
Zn69	69	30	0.00e+00
Zn70	70	30	2.75e-10
Ga69	69	31	1.53e-09
Ga70	70	31	0.00e+00
Ga71	71	31	1.19e-09
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	2.11e-09
Ge71	71	32	0.00e+00
Ge72	72	32	2.44e-09
Ge73	73	32	7.00e-10
Ge74	74	32	3.65e-09
Ge75	75	32	0.00e+00
Ge76	76	32	3.41e-10
Ge77	77	32	0.00e+00
As75	75	33	4.30e-10
As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	7.03e-10

Se77	77	34	3.75e-10
Se78	78	34	1.77e-09
Se79	79	34	1.08e-10
Se80	80	34	2.48e-09
Se81	81	34	0.00e+00
Se82	82	34	2.27e-10
Br79	79	35	3.52e-10
Br80	80	35	0.00e+00
Br81	81	35	4.36e-10
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	7.30e-11
Kr81	81	36	2.55e-12
Kr82	82	36	8.88e-10
Kr83	83	36	4.88e-10
Kr84	84	36	2.68e-09
Kr85	85	36	0.00e+00
Kr86	86	36	1.42e-09
Kr87	87	36	0.00e+00
Kr88	88	36	0.00e+00
Rb85	85	37	5.40e-10
Rb86	86	37	0.00e+00
Rb87	87	37	5.36e-10
Rb88	88	37	0.00e+00
Sr86	86	38	5.11e-10
Sr87	87	38	3.42e-10
Sr88	88	38	6.26e-09
Sr89	89	38	0.00e+00
Sr90	90	38	0.00e+00
Sr91	91	38	0.00e+00
Sr92	92	38	0.00e+00
Y89	89	39	1.49e-09
Y90	90	39	0.00e+00
Y91	91	39	0.00e+00
Y92	92	39	0.00e+00
Y93	93	39	0.00e+00
Zr90	90	40	1.52e-09
Zr91	91	40	4.14e-10
Zr92	92	40	6.39e-10
Zr93	93	40	1.69e-10

Zr94	94	40	8.40e-10		Ag07	107	47	1.38e-11
Zr95	95	40	0.00e+00		Ag09	109	47	4.66e-11
Zr96	96	40	2.80e-10		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	8.00e-13
Nb93	93	41	7.25e-11		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	1.05e-10
Nb95	95	41	0.00e+00		Cd11	111	48	4.49e-11
Nb96	96	41	0.00e+00		Cd12	112	48	1.50e-10
Nb97	97	41	0.00e+00		Cd13	113	48	4.83e-11
Mo92	92	42	1.83e-11		Cd14	114	48	2.13e-10
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	1.37e-11		Cd16	116	48	3.52e-11
Mo95	95	42	1.14e-10		In13	113	49	4.19e-13
Mo96	96	42	1.87e-10		In15	115	49	4.78e-11
Mo97	97	42	7.42e-11		Sn14	114	50	1.34e-12
Mo98	98	42	2.48e-10		Sn15	115	50	6.93e-13
Mo99	99	42	0.00e+00		Sn16	116	50	2.75e-10
Mo00	100	42	2.73e-11		Sn17	117	50	9.37e-11
Tc97	97	43	0.00e+00		Sn18	118	50	4.21e-10
Tc98	98	43	0.00e+00		Sn19	119	50	1.30e-10
Tc99	99	43	8.04e-12		Sn20	120	50	6.65e-10
Ru96	96	44	4.60e-12		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	7.13e-11
Ru98	98	44	1.59e-12		Sn23	123	50	0.00e+00
Ru99	99	44	3.27e-11		Sn24	124	50	1.95e-11
Ru00	100	44	1.14e-10		Sb21	121	51	5.68e-11
Ru01	101	44	3.85e-11		Sb22	122	51	0.00e+00
Ru02	102	44	1.76e-10		Sb23	123	51	2.12e-11
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	3.07e-11		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	7.44e-11
Ru06	106	44	0.00e+00		Te23	123	52	2.52e-11
Rh03	103	45	4.47e-11		Te24	124	52	1.54e-10
Rh05	105	45	0.00e+00		Te25	125	52	6.73e-11
Pd04	104	46	8.30e-11		Te26	126	52	3.29e-10
Pd05	105	46	3.73e-11		Te27	127	52	0.00e+00
Pd06	106	46	1.14e-10		Te28	128	52	1.25e-10
Pd07	107	46	1.76e-11		Te30	130	52	1.02e-10
Pd08	108	46	1.38e-10		I127	127	53	9.73e-11
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	2.26e-11		I129	129	53	1.08e-12

I130	130	53	0.00e+00
I131	131	53	0.00e+00
I132	132	53	0.00e+00
I133	133	53	0.00e+00
Xe28	128	54	9.40e-11
Xe29	129	54	1.27e-10
Xe30	130	54	2.00e-10
Xe31	131	54	1.26e-10
Xe32	132	54	4.68e-10
Xe33	133	54	0.00e+00
Xe34	134	54	9.95e-11
Xe35	135	54	0.00e+00
Xe36	136	54	3.45e-11
Cs33	133	55	7.69e-11
Cs34	134	55	0.00e+00
Cs35	135	55	4.05e-11
Cs36	136	55	0.00e+00
Cs37	137	55	0.00e+00
Ba34	134	56	1.18e-10
Ba35	135	56	5.82e-11
Ba36	136	56	4.09e-10
Ba37	137	56	4.15e-10
Ba38	138	56	5.30e-09
Ba39	139	56	0.00e+00
Ba40	140	56	0.00e+00
La39	139	57	6.44e-10
La40	140	57	0.00e+00
Ce40	140	58	2.11e-09
Ce41	141	58	0.00e+00
Ce42	142	58	9.86e-11
Ce43	143	58	0.00e+00
Ce44	144	58	0.00e+00
Pr41	141	59	2.23e-10
Pr42	142	59	0.00e+00
Pr43	143	59	0.00e+00
Pr45	145	59	0.00e+00
Nd42	142	60	5.25e-10
Nd43	143	60	9.40e-11
Nd44	144	60	2.98e-10
Nd45	145	60	5.76e-11
Nd46	146	60	2.74e-10

Nd47	147	60	0.00e+00
Nd48	148	60	4.71e-11
Nd49	149	60	0.00e+00
Nd50	150	60	4.47e-12
Pm45	145	61	0.00e+00
Pm46	146	61	0.00e+00
Pm47	147	61	0.00e+00
Pm48	148	61	0.00e+00
Pm49	149	61	0.00e+00
Pm50	150	61	0.00e+00
Pm51	151	61	0.00e+00
Sm44	144	62	5.42e-13
Sm45	145	62	0.00e+00
Sm46	146	62	0.00e+00
Sm47	147	62	3.34e-11
Sm48	148	62	7.01e-11
Sm49	149	62	1.54e-11
Sm50	150	62	5.80e-11
Sm51	151	62	0.00e+00
Sm52	152	62	5.39e-11
Sm53	153	62	0.00e+00
Sm54	154	62	2.56e-11
Eu51	151	63	1.13e-11
Eu52	152	63	0.00e+00
Eu53	153	63	1.33e-11
Eu54	154	63	0.00e+00
Eu55	155	63	0.00e+00
Eu56	156	63	0.00e+00
Eu57	157	63	0.00e+00
Gd52	152	64	6.13e-13
Gd53	153	64	0.00e+00
Gd54	154	64	1.27e-11
Gd55	155	64	1.67e-11
Gd56	156	64	4.51e-11
Gd57	157	64	2.22e-11
Gd58	158	64	7.57e-11
Gd59	159	64	0.00e+00
Gd60	160	64	2.07e-11
Tb59	159	65	2.06e-11
Tb60	160	65	0.00e+00
Tb61	161	65	0.00e+00

Dy60	160	66	2.40e-11		Hf81	181	72	0.00e+00
Dy61	161	66	1.78e-11		Hf82	182	72	1.40e-11
Dy62	162	66	5.95e-11		Hf83	183	72	0.00e+00
Dy63	163	66	2.41e-11		Hf84	184	72	0.00e+00
Dy64	164	66	9.61e-11		Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00		Ta80	180	73	0.00e+00
Dy66	166	66	0.00e+00		Ta81	181	73	3.91e-11
Ho63	163	67	0.00e+00		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta83	183	73	0.00e+00
Ho65	165	67	2.91e-11		Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00		W180	180	74	0.00e+00
Er64	164	68	8.81e-12		W181	181	74	0.00e+00
Er65	165	68	0.00e+00		W182	182	74	7.19e-11
Er66	166	68	4.04e-11		W183	183	74	4.91e-11
Er67	167	68	2.05e-11		W184	184	74	1.32e-10
Er68	168	68	7.27e-11		W185	185	74	0.00e+00
Er69	169	68	0.00e+00		W186	186	74	6.78e-11
Er70	170	68	3.62e-11		W187	187	74	0.00e+00
Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	2.70e-11
Tm69	169	69	1.67e-11		Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00		Re87	187	75	1.93e-11
Tm71	171	69	0.00e+00		Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00		Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00		Os86	186	76	4.56e-11
Yb70	170	70	2.19e-11		Os87	187	76	1.37e-11
Yb71	171	70	3.43e-11		Os88	188	76	1.13e-10
Yb72	172	70	8.32e-11		Os89	189	76	3.20e-11
Yb73	173	70	3.97e-11		Os90	190	76	1.30e-10
Yb74	174	70	1.82e-10		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	9.43e-11
Yb76	176	70	3.70e-11		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	2.71e-11		Ir91	191	77	4.38e-11
Lu76	176	71	1.31e-11		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	6.55e-11
Hf76	176	72	1.13e-11		Ir94	194	77	0.00e+00
Hf77	177	72	2.46e-11		Ir95	195	77	0.00e+00
Hf78	178	72	9.81e-11		Pt92	192	78	3.19e-11
Hf79	179	72	3.43e-11		Pt93	193	78	0.00e+00
Hf80	180	72	1.83e-10		Pt94	194	78	1.64e-10

Isotope	A	Z	YIELD
Pt95	195	78	8.95e-11
Pt96	196	78	2.00e-10
Pt97	197	78	0.00e+00
Pt98	198	78	2.55e-11
Au97	197	79	6.82e-11
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.61e-10
Hg99	199	80	8.40e-11
Hg00	200	80	2.80e-10
Hg01	201	80	1.22e-10
Hg02	202	80	5.01e-10
Hg03	203	80	0.00e+00
Hg04	204	80	1.53e-11
Tl03	203	81	2.32e-10
Tl04	204	81	0.00e+00
Tl05	205	81	4.78e-10
Pb04	204	82	2.76e-10
Pb05	205	82	2.42e-11
Pb06	206	82	3.39e-09
Pb07	207	82	4.58e-09
Pb08	208	82	1.04e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	9.93e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 1.50; Z = 0.000300 [α/Fe]=0.5; IRV = 30 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	5.88e-01
He4	4	2	2.40e-01
C12	12	6	5.96e-03
C13	13	6	1.38e-06
C14	14	6	1.87e-10
N14	14	7	4.64e-05
N15	15	7	4.16e-08
O16	16	8	5.11e-04
O17	17	8	1.84e-06
O18	18	8	1.71e-07
F18	18	9	0.00e+00
F19	19	9	8.20e-07
Ne20	20	10	6.16e-05
Ne21	21	10	1.30e-07
Ne22	22	10	3.09e-04
Na22	22	11	0.00e+00
Na23	23	11	2.66e-06
Na24	24	11	0.00e+00
Mg24	24	12	3.50e-05
Mg25	25	12	2.97e-06
Mg26	26	12	2.66e-06
Al26	26	13	1.41e-08
Al27	27	13	1.47e-06
Si28	28	14	3.99e-05
Si29	29	14	7.00e-07
Si30	30	14	5.18e-07
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	1.57e-07
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	2.09e-05
S33	33	16	6.58e-08
S34	34	16	3.50e-07
S35	35	16	0.00e+00
S36	36	16	2.54e-09
Cl35	35	17	6.73e-08
Cl36	36	17	3.46e-11
Cl37	37	17	3.76e-08
Ar36	36	18	4.75e-06
Ar37	37	18	0.00e+00
Ar38	38	18	3.11e-07
Ar39	39	18	6.76e-13
Ar40	40	18	1.90e-09
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	6.60e-08

K40	40	19	4.91e-10
K41	41	19	7.50e-09
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	3.57e-06
Ca41	41	20	1.68e-10
Ca42	42	20	1.04e-08
Ca43	43	20	2.22e-09
Ca44	44	20	2.87e-08
Ca45	45	20	0.00e+00
Ca46	46	20	1.38e-10
Ca47	47	20	0.00e+00
Ca48	48	20	2.63e-09
Sc45	45	21	1.07e-09
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	4.86e-09
Ti47	47	22	4.18e-09
Ti48	48	22	4.09e-08
Ti49	49	22	3.89e-09
Ti50	50	22	6.41e-09
V50	50	23	1.71e-11
V51	51	23	7.23e-09
Cr50	50	24	1.36e-08
Cr51	51	24	0.00e+00
Cr52	52	24	2.78e-07
Cr53	53	24	3.22e-08
Cr54	54	24	1.05e-08
Mn55	55	25	2.46e-07
Mn56	56	25	0.00e+00
Fe54	54	26	1.31e-06
Fe55	55	26	0.00e+00
Fe56	56	26	2.16e-05
Fe57	57	26	5.78e-07
Fe58	58	26	1.64e-07
Fe59	59	26	0.00e+00
Fe60	60	26	2.28e-09
Co59	59	27	8.69e-08
Co60	60	27	0.00e+00

Ni58	58	28	9.02e-07
Ni59	59	28	3.77e-10
Ni60	60	28	3.80e-07
Ni61	61	28	2.35e-08
Ni62	62	28	6.52e-08
Ni63	63	28	2.67e-13
Ni64	64	28	2.40e-08
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	1.76e-08
Cu64	64	29	0.00e+00
Cu65	65	29	8.71e-09
Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	2.01e-08
Zn65	65	30	0.00e+00
Zn66	66	30	1.41e-08
Zn67	67	30	2.32e-09
Zn68	68	30	1.12e-08
Zn69	69	30	0.00e+00
Zn70	70	30	2.66e-10
Ga69	69	31	1.24e-09
Ga70	70	31	0.00e+00
Ga71	71	31	9.87e-10
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	1.72e-09
Ge71	71	32	0.00e+00
Ge72	72	32	2.15e-09
Ge73	73	32	6.20e-10
Ge74	74	32	3.36e-09
Ge75	75	32	0.00e+00
Ge76	76	32	3.34e-10
Ge77	77	32	0.00e+00
As75	75	33	4.02e-10
As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	6.53e-10
Se77	77	34	3.56e-10
Se78	78	34	1.73e-09
Se79	79	34	1.12e-10

Se80	80	34	2.52e-09
Se81	81	34	0.00e+00
Se82	82	34	2.23e-10
Br79	79	35	3.43e-10
Br80	80	35	0.00e+00
Br81	81	35	4.45e-10
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	7.29e-11
Kr81	81	36	2.75e-12
Kr82	82	36	9.42e-10
Kr83	83	36	5.12e-10
Kr84	84	36	2.92e-09
Kr85	85	36	0.00e+00
Kr86	86	36	1.06e-09
Kr87	87	36	0.00e+00
Kr88	88	36	0.00e+00
Rb85	85	37	5.96e-10
Rb86	86	37	0.00e+00
Rb87	87	37	3.90e-10
Rb88	88	37	0.00e+00
Sr86	86	38	6.17e-10
Sr87	87	38	4.32e-10
Sr88	88	38	8.45e-09
Sr89	89	38	0.00e+00
Sr90	90	38	0.00e+00
Sr91	91	38	0.00e+00
Sr92	92	38	0.00e+00
Y89	89	39	1.98e-09
Y90	90	39	0.00e+00
Y91	91	39	0.00e+00
Y92	92	39	0.00e+00
Y93	93	39	0.00e+00
Zr90	90	40	1.99e-09
Zr91	91	40	5.41e-10
Zr92	92	40	8.17e-10
Zr93	93	40	2.22e-10
Zr94	94	40	1.04e-09
Zr95	95	40	0.00e+00
Zr96	96	40	1.45e-10

Zr97	97	40	0.00e+00
Nb93	93	41	8.28e-11
Nb94	94	41	0.00e+00
Nb95	95	41	0.00e+00
Nb96	96	41	0.00e+00
Nb97	97	41	0.00e+00
Mo92	92	42	1.83e-11
Mo93	93	42	0.00e+00
Mo94	94	42	1.39e-11
Mo95	95	42	1.39e-10
Mo96	96	42	2.26e-10
Mo97	97	42	8.15e-11
Mo98	98	42	2.73e-10
Mo99	99	42	0.00e+00
Mo00	100	42	2.91e-11
Tc97	97	43	0.00e+00
Tc98	98	43	0.00e+00
Tc99	99	43	9.70e-12
Ru96	96	44	4.58e-12
Ru97	97	44	0.00e+00
Ru98	98	44	1.58e-12
Ru99	99	44	3.46e-11
Ru00	100	44	1.27e-10
Ru01	101	44	4.15e-11
Ru02	102	44	1.96e-10
Ru03	103	44	0.00e+00
Ru04	104	44	3.32e-11
Ru05	105	44	0.00e+00
Ru06	106	44	0.00e+00
Rh03	103	45	4.84e-11
Rh05	105	45	0.00e+00
Pd04	104	46	9.35e-11
Pd05	105	46	4.03e-11
Pd06	106	46	1.28e-10
Pd07	107	46	2.03e-11
Pd08	108	46	1.56e-10
Pd09	109	46	0.00e+00
Pd10	110	46	2.55e-11
Ag07	107	47	1.38e-11
Ag09	109	47	5.19e-11
Ag11	111	47	0.00e+00

Cd08	108	48	7.87e-13
Cd09	109	48	0.00e+00
Cd10	110	48	1.20e-10
Cd11	111	48	5.02e-11
Cd12	112	48	1.71e-10
Cd13	113	48	5.44e-11
Cd14	114	48	2.45e-10
Cd15	115	48	0.00e+00
Cd16	116	48	3.95e-11
In13	113	49	4.17e-13
In15	115	49	5.44e-11
Sn14	114	50	1.33e-12
Sn15	115	50	6.90e-13
Sn16	116	50	3.19e-10
Sn17	117	50	1.08e-10
Sn18	118	50	4.89e-10
Sn19	119	50	1.51e-10
Sn20	120	50	7.82e-10
Sn21	121	50	0.00e+00
Sn22	122	50	5.89e-11
Sn23	123	50	0.00e+00
Sn24	124	50	1.35e-11
Sb21	121	51	6.59e-11
Sb22	122	51	0.00e+00
Sb23	123	51	2.19e-11
Sb24	124	51	0.00e+00
Sb25	125	51	0.00e+00
Te22	122	52	8.77e-11
Te23	123	52	2.97e-11
Te24	124	52	1.77e-10
Te25	125	52	7.49e-11
Te26	126	52	3.75e-10
Te27	127	52	0.00e+00
Te28	128	52	1.31e-10
Te30	130	52	1.01e-10
I127	127	53	1.03e-10
I128	128	53	0.00e+00
I129	129	53	1.25e-12
I130	130	53	0.00e+00
I131	131	53	0.00e+00
I132	132	53	0.00e+00

I133	133	53	0.00e+00
Xe28	128	54	1.09e-10
Xe29	129	54	1.33e-10
Xe30	130	54	2.33e-10
Xe31	131	54	1.35e-10
Xe32	132	54	5.39e-10
Xe33	133	54	0.00e+00
Xe34	134	54	7.97e-11
Xe35	135	54	0.00e+00
Xe36	136	54	2.82e-11
Cs33	133	55	8.72e-11
Cs34	134	55	0.00e+00
Cs35	135	55	4.55e-11
Cs36	136	55	0.00e+00
Cs37	137	55	0.00e+00
Ba34	134	56	1.40e-10
Ba35	135	56	6.52e-11
Ba36	136	56	4.77e-10
Ba37	137	56	4.40e-10
Ba38	138	56	6.05e-09
Ba39	139	56	0.00e+00
Ba40	140	56	0.00e+00
La39	139	57	7.35e-10
La40	140	57	0.00e+00
Ce40	140	58	2.50e-09
Ce41	141	58	0.00e+00
Ce42	142	58	8.79e-11
Ce43	143	58	0.00e+00
Ce44	144	58	0.00e+00
Pr41	141	59	2.62e-10
Pr42	142	59	0.00e+00
Pr43	143	59	0.00e+00
Pr45	145	59	0.00e+00
Nd42	142	60	6.26e-10
Nd43	143	60	1.08e-10
Nd44	144	60	3.39e-10
Nd45	145	60	6.51e-11
Nd46	146	60	3.10e-10
Nd47	147	60	0.00e+00
Nd48	148	60	5.30e-11
Nd49	149	60	0.00e+00

Nd50	150	60	4.77e-12
Pm45	145	61	0.00e+00
Pm46	146	61	0.00e+00
Pm47	147	61	0.00e+00
Pm48	148	61	0.00e+00
Pm49	149	61	0.00e+00
Pm50	150	61	0.00e+00
Pm51	151	61	0.00e+00
Sm44	144	62	5.40e-13
Sm45	145	62	0.00e+00
Sm46	146	62	0.00e+00
Sm47	147	62	3.76e-11
Sm48	148	62	7.86e-11
Sm49	149	62	1.71e-11
Sm50	150	62	6.51e-11
Sm51	151	62	0.00e+00
Sm52	152	62	5.98e-11
Sm53	153	62	0.00e+00
Sm54	154	62	2.84e-11
Eu51	151	63	1.23e-11
Eu52	152	63	0.00e+00
Eu53	153	63	1.45e-11
Eu54	154	63	0.00e+00
Eu55	155	63	0.00e+00
Eu56	156	63	0.00e+00
Eu57	157	63	0.00e+00
Gd52	152	64	6.96e-13
Gd53	153	64	0.00e+00
Gd54	154	64	1.42e-11
Gd55	155	64	1.83e-11
Gd56	156	64	4.97e-11
Gd57	157	64	2.43e-11
Gd58	158	64	8.33e-11
Gd59	159	64	0.00e+00
Gd60	160	64	2.28e-11
Tb59	159	65	2.24e-11
Tb60	160	65	0.00e+00
Tb61	161	65	0.00e+00
Dy60	160	66	2.64e-11
Dy61	161	66	1.92e-11
Dy62	162	66	6.52e-11

Dy63	163	66	2.58e-11
Dy64	164	66	1.06e-10
Dy65	165	66	0.00e+00
Dy66	166	66	0.00e+00
Ho63	163	67	0.00e+00
Ho64	164	67	0.00e+00
Ho65	165	67	3.15e-11
Ho66	166	67	0.00e+00
Er64	164	68	9.77e-12
Er65	165	68	0.00e+00
Er66	166	68	4.37e-11
Er67	167	68	2.21e-11
Er68	168	68	7.98e-11
Er69	169	68	0.00e+00
Er70	170	68	4.01e-11
Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	1.82e-11
Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00
Tm73	173	69	0.00e+00
Yb70	170	70	2.41e-11
Yb71	171	70	3.78e-11
Yb72	172	70	9.12e-11
Yb73	173	70	4.35e-11
Yb74	174	70	2.00e-10
Yb75	175	70	0.00e+00
Yb76	176	70	4.06e-11
Yb77	177	70	0.00e+00
Lu75	175	71	2.96e-11
Lu76	176	71	1.44e-11
Lu77	177	71	0.00e+00
Hf76	176	72	1.23e-11
Hf77	177	72	2.69e-11
Hf78	178	72	1.07e-10
Hf79	179	72	3.73e-11
Hf80	180	72	1.98e-10
Hf81	181	72	0.00e+00
Hf82	182	72	1.55e-11
Hf83	183	72	0.00e+00

Isotope	A	Z	Yield
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00
Ta81	181	73	4.24e-11
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	0.00e+00
W181	181	74	0.00e+00
W182	182	74	7.73e-11
W183	183	74	5.33e-11
W184	184	74	1.43e-10
W185	185	74	0.00e+00
W186	186	74	7.29e-11
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	2.92e-11
Re86	186	75	0.00e+00
Re87	187	75	2.07e-11
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	4.88e-11
Os87	187	76	1.45e-11
Os88	188	76	1.20e-10
Os89	189	76	3.37e-11
Os90	190	76	1.39e-10
Os91	191	76	0.00e+00
Os92	192	76	9.93e-11
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	4.54e-11
Ir92	192	77	0.00e+00
Ir93	193	77	6.74e-11
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	3.40e-11
Pt93	193	78	0.00e+00
Pt94	194	78	1.73e-10
Pt95	195	78	9.25e-11
Pt96	196	78	2.10e-10
Pt97	197	78	0.00e+00

Isotope	A	Z	Yield
Pt98	198	78	2.70e-11
Au97	197	79	7.12e-11
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.69e-10
Hg99	199	80	8.86e-11
Hg00	200	80	3.00e-10
Hg01	201	80	1.31e-10
Hg02	202	80	5.52e-10
Hg03	203	80	0.00e+00
Hg04	204	80	1.51e-11
Tl03	203	81	2.58e-10
Tl04	204	81	0.00e+00
Tl05	205	81	5.52e-10
Pb04	204	82	3.10e-10
Pb05	205	82	2.87e-11
Pb06	206	82	3.64e-09
Pb07	207	82	4.84e-09
Pb08	208	82	4.84e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	4.78e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M_0 = 1.50; Z = 0.000300 [α/Fe]=0.5; IRV = 60 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	5.86e-01
He4	4	2	2.38e-01
C12	12	6	6.32e-03
C13	13	6	1.85e-06
C14	14	6	2.78e-09
N14	14	7	4.93e-05
N15	15	7	3.42e-08
O16	16	8	5.34e-04
O17	17	8	1.88e-06

O18	18	8	1.73e-07
F18	18	9	0.00e+00
F19	19	9	1.17e-06
Ne20	20	10	6.22e-05
Ne21	21	10	1.45e-07
Ne22	22	10	3.91e-04
Na22	22	11	0.00e+00
Na23	23	11	4.00e-06
Na24	24	11	0.00e+00
Mg24	24	12	3.76e-05
Mg25	25	12	3.69e-06
Mg26	26	12	3.13e-06
Al26	26	13	2.21e-08
Al27	27	13	1.52e-06
Si28	28	14	3.98e-05
Si29	29	14	7.02e-07
Si30	30	14	5.24e-07
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	1.71e-07
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	2.08e-05
S33	33	16	6.60e-08
S34	34	16	3.51e-07
S35	35	16	0.00e+00
S36	36	16	2.77e-09
Cl35	35	17	6.71e-08
Cl36	36	17	4.35e-11
Cl37	37	17	4.10e-08
Ar36	36	18	4.73e-06
Ar37	37	18	0.00e+00
Ar38	38	18	3.12e-07
Ar39	39	18	2.00e-11
Ar40	40	18	2.69e-09
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	6.67e-08
K40	40	19	6.65e-10
K41	41	19	7.64e-09
K42	42	19	0.00e+00

K43	43	19	0.00e+00
Ca40	40	20	3.56e-06
Ca41	41	20	2.25e-10
Ca42	42	20	1.07e-08
Ca43	43	20	2.29e-09
Ca44	44	20	2.94e-08
Ca45	45	20	0.00e+00
Ca46	46	20	1.62e-10
Ca47	47	20	0.00e+00
Ca48	48	20	2.62e-09
Sc45	45	21	1.17e-09
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	5.14e-09
Ti47	47	22	4.26e-09
Ti48	48	22	4.09e-08
Ti49	49	22	4.12e-09
Ti50	50	22	7.61e-09
V50	50	23	1.70e-11
V51	51	23	7.25e-09
Cr50	50	24	1.36e-08
Cr51	51	24	0.00e+00
Cr52	52	24	2.77e-07
Cr53	53	24	3.21e-08
Cr54	54	24	1.06e-08
Mn55	55	25	2.45e-07
Mn56	56	25	0.00e+00
Fe54	54	26	1.31e-06
Fe55	55	26	1.41e-11
Fe56	56	26	2.15e-05
Fe57	57	26	5.76e-07
Fe58	58	26	1.63e-07
Fe59	59	26	0.00e+00
Fe60	60	26	2.51e-09
Co59	59	27	8.65e-08
Co60	60	27	0.00e+00
Ni58	58	28	8.98e-07
Ni59	59	28	5.61e-10
Ni60	60	28	3.80e-07

Ni61	61	28	2.42e-08	Br79	79	35	4.75e-10
Ni62	62	28	6.73e-08	Br80	80	35	0.00e+00
Ni63	63	28	8.62e-12	Br81	81	35	6.01e-10
Ni64	64	28	3.09e-08	Br82	82	35	0.00e+00
Ni65	65	28	0.00e+00	Br83	83	35	0.00e+00
Ni66	66	28	0.00e+00	Br84	84	35	0.00e+00
Cu63	63	29	1.90e-08	Kr80	80	36	8.88e-11
Cu64	64	29	0.00e+00	Kr81	81	36	4.78e-12
Cu65	65	29	1.16e-08	Kr82	82	36	1.43e-09
Cu66	66	29	0.00e+00	Kr83	83	36	6.94e-10
Cu67	67	29	0.00e+00	Kr84	84	36	4.10e-09
Zn64	64	30	2.09e-08	Kr85	85	36	0.00e+00
Zn65	65	30	0.00e+00	Kr86	86	36	1.49e-09
Zn66	66	30	1.65e-08	Kr87	87	36	0.00e+00
Zn67	67	30	2.85e-09	Kr88	88	36	0.00e+00
Zn68	68	30	1.39e-08	Rb85	85	37	8.76e-10
Zn69	69	30	0.00e+00	Rb86	86	37	0.00e+00
Zn70	70	30	2.66e-10	Rb87	87	37	5.46e-10
Ga69	69	31	1.63e-09	Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00	Sr86	86	38	1.01e-09
Ga71	71	31	1.36e-09	Sr87	87	38	7.11e-10
Ga72	72	31	0.00e+00	Sr88	88	38	1.40e-08
Ga73	73	31	0.00e+00	Sr89	89	38	0.00e+00
Ge70	70	32	2.34e-09	Sr90	90	38	0.00e+00
Ge71	71	32	0.00e+00	Sr91	91	38	0.00e+00
Ge72	72	32	2.87e-09	Sr92	92	38	0.00e+00
Ge73	73	32	8.32e-10	Y89	89	39	3.30e-09
Ge74	74	32	4.66e-09	Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00	Y91	91	39	0.00e+00
Ge76	76	32	3.34e-10	Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00	Y93	93	39	0.00e+00
As75	75	33	5.34e-10	Zr90	90	40	3.32e-09
As76	76	33	0.00e+00	Zr91	91	40	8.96e-10
As77	77	33	0.00e+00	Zr92	92	40	1.36e-09
Se76	76	34	9.53e-10	Zr93	93	40	3.84e-10
Se77	77	34	4.75e-10	Zr94	94	40	1.76e-09
Se78	78	34	2.53e-09	Zr95	95	40	0.00e+00
Se79	79	34	1.48e-10	Zr96	96	40	2.07e-10
Se80	80	34	3.38e-09	Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00	Nb93	93	41	1.22e-10
Se82	82	34	2.22e-10	Nb94	94	41	0.00e+00

Nb95	95	41	0.00e+00
Nb96	96	41	0.00e+00
Nb97	97	41	0.00e+00
Mo92	92	42	1.82e-11
Mo93	93	42	0.00e+00
Mo94	94	42	1.60e-11
Mo95	95	42	2.21e-10
Mo96	96	42	3.96e-10
Mo97	97	42	1.38e-10
Mo98	98	42	4.73e-10
Mo99	99	42	0.00e+00
Mo00	100	42	3.30e-11
Tc97	97	43	0.00e+00
Tc98	98	43	0.00e+00
Tc99	99	43	1.73e-11
Ru96	96	44	4.55e-12
Ru97	97	44	0.00e+00
Ru98	98	44	1.57e-12
Ru99	99	44	5.32e-11
Ru00	100	44	2.25e-10
Ru01	101	44	6.30e-11
Ru02	102	44	3.34e-10
Ru03	103	44	0.00e+00
Ru04	104	44	3.73e-11
Ru05	105	44	0.00e+00
Ru06	106	44	0.00e+00
Rh03	103	45	7.29e-11
Rh05	105	45	0.00e+00
Pd04	104	46	1.67e-10
Pd05	105	46	5.96e-11
Pd06	106	46	2.16e-10
Pd07	107	46	3.69e-11
Pd08	108	46	2.69e-10
Pd09	109	46	0.00e+00
Pd10	110	46	3.00e-11
Ag07	107	47	1.47e-11
Ag09	109	47	8.48e-11
Ag11	111	47	0.00e+00
Cd08	108	48	8.55e-13
Cd09	109	48	0.00e+00
Cd10	110	48	2.15e-10

Cd11	111	48	8.28e-11
Cd12	112	48	2.96e-10
Cd13	113	48	9.13e-11
Cd14	114	48	4.31e-10
Cd15	115	48	0.00e+00
Cd16	116	48	4.67e-11
In13	113	49	4.15e-13
In15	115	49	9.06e-11
Sn14	114	50	1.32e-12
Sn15	115	50	6.87e-13
Sn16	116	50	5.79e-10
Sn17	117	50	1.86e-10
Sn18	118	50	8.65e-10
Sn19	119	50	2.65e-10
Sn20	120	50	1.40e-09
Sn21	121	50	0.00e+00
Sn22	122	50	6.97e-11
Sn23	123	50	0.00e+00
Sn24	124	50	1.33e-11
Sb21	121	51	1.11e-10
Sb22	122	51	0.00e+00
Sb23	123	51	2.73e-11
Sb24	124	51	0.00e+00
Sb25	125	51	0.00e+00
Te22	122	52	1.61e-10
Te23	123	52	5.56e-11
Te24	124	52	3.25e-10
Te25	125	52	1.24e-10
Te26	126	52	6.62e-10
Te27	127	52	0.00e+00
Te28	128	52	1.54e-10
Te30	130	52	1.01e-10
I127	127	53	1.41e-10
I128	128	53	0.00e+00
I129	129	53	2.10e-12
I130	130	53	0.00e+00
I131	131	53	0.00e+00
I132	132	53	0.00e+00
I133	133	53	0.00e+00
Xe28	128	54	1.99e-10
Xe29	129	54	1.70e-10

Xe30	130	54	4.26e-10		Pm47	147	61	0.00e+00
Xe31	131	54	1.90e-10		Pm48	148	61	0.00e+00
Xe32	132	54	9.32e-10		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	9.11e-11		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	5.37e-13
Xe36	136	54	2.80e-11		Sm45	145	62	0.00e+00
Cs33	133	55	1.40e-10		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	5.69e-11
Cs35	135	55	7.49e-11		Sm48	148	62	1.37e-10
Cs36	136	55	0.00e+00		Sm49	149	62	2.54e-11
Cs37	137	55	0.00e+00		Sm50	150	62	1.02e-10
Ba34	134	56	2.65e-10		Sm51	151	62	0.00e+00
Ba35	135	56	1.10e-10		Sm52	152	62	9.17e-11
Ba36	136	56	9.00e-10		Sm53	153	62	0.00e+00
Ba37	137	56	7.91e-10		Sm54	154	62	3.23e-11
Ba38	138	56	1.06e-08		Eu51	151	63	1.74e-11
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	2.07e-11
La39	139	57	1.27e-09		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	4.10e-09		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	1.08e-10		Gd52	152	64	1.07e-12
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	2.31e-11
Pr41	141	59	4.13e-10		Gd55	155	64	2.52e-11
Pr42	142	59	0.00e+00		Gd56	156	64	7.35e-11
Pr43	143	59	0.00e+00		Gd57	157	64	3.54e-11
Pr45	145	59	0.00e+00		Gd58	158	64	1.28e-10
Nd42	142	60	1.05e-09		Gd59	159	64	0.00e+00
Nd43	143	60	1.69e-10		Gd60	160	64	2.43e-11
Nd44	144	60	5.31e-10		Tb59	159	65	3.27e-11
Nd45	145	60	1.01e-10		Tb60	160	65	0.00e+00
Nd46	146	60	4.84e-10		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	4.23e-11
Nd48	148	60	6.39e-11		Dy61	161	66	2.64e-11
Nd49	149	60	0.00e+00		Dy62	162	66	9.71e-11
Nd50	150	60	4.68e-12		Dy63	163	66	3.52e-11
Pm45	145	61	0.00e+00		Dy64	164	66	1.60e-10
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00

Dy66	166	66	0.00e+00		Ta81	181	73	6.42e-11
Ho63	163	67	5.86e-13		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta83	183	73	0.00e+00
Ho65	165	67	4.58e-11		Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00		W180	180	74	0.00e+00
Er64	164	68	1.57e-11		W181	181	74	0.00e+00
Er65	165	68	0.00e+00		W182	182	74	1.25e-10
Er66	166	68	6.87e-11		W183	183	74	8.02e-11
Er67	167	68	3.28e-11		W184	184	74	2.19e-10
Er68	168	68	1.22e-10		W185	185	74	0.00e+00
Er69	169	68	0.00e+00		W186	186	74	9.94e-11
Er70	170	68	4.63e-11		W187	187	74	0.00e+00
Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	4.25e-11
Tm69	169	69	2.57e-11		Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00		Re87	187	75	2.75e-11
Tm71	171	69	0.00e+00		Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00		Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00		Os86	186	76	8.26e-11
Yb70	170	70	3.85e-11		Os87	187	76	2.43e-11
Yb71	171	70	5.35e-11		Os88	188	76	1.82e-10
Yb72	172	70	1.42e-10		Os89	189	76	4.62e-11
Yb73	173	70	6.65e-11		Os90	190	76	2.02e-10
Yb74	174	70	3.08e-10		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	1.17e-10
Yb76	176	70	4.39e-11		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	4.39e-11		Ir91	191	77	5.73e-11
Lu76	176	71	2.23e-11		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	8.02e-11
Hf76	176	72	1.89e-11		Ir94	194	77	0.00e+00
Hf77	177	72	3.84e-11		Ir95	195	77	0.00e+00
Hf78	178	72	1.61e-10		Pt92	192	78	5.65e-11
Hf79	179	72	5.65e-11		Pt93	193	78	0.00e+00
Hf80	180	72	3.07e-10		Pt94	194	78	2.35e-10
Hf81	181	72	0.00e+00		Pt95	195	78	1.18e-10
Hf82	182	72	1.73e-11		Pt96	196	78	3.01e-10
Hf83	183	72	0.00e+00		Pt97	197	78	0.00e+00
Hf84	184	72	0.00e+00		Pt98	198	78	2.60e-11
Ta79	179	73	0.00e+00		Au97	197	79	9.72e-11
Ta80	180	73	0.00e+00		Au98	198	79	0.00e+00

Isotope	A	Z	YIELD
Au99	199	79	0.00e+00
Hg98	198	80	2.61e-10
Hg99	199	80	1.29e-10
Hg00	200	80	4.37e-10
Hg01	201	80	1.89e-10
Hg02	202	80	7.83e-10
Hg03	203	80	0.00e+00
Hg04	204	80	1.35e-11
Tl03	203	81	3.60e-10
Tl04	204	81	0.00e+00
Tl05	205	81	7.31e-10
Pb04	204	82	4.37e-10
Pb05	205	82	3.63e-11
Pb06	206	82	4.39e-09
Pb07	207	82	5.23e-09
Pb08	208	82	3.55e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	3.53e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 1.50; Z = 0.001000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	6.02e-01
He4	4	2	2.38e-01
C12	12	6	5.04e-03
C13	13	6	4.03e-06
C14	14	6	1.57e-10
N14	14	7	1.16e-04
N15	15	7	9.59e-08
O16	16	8	5.12e-04
O17	17	8	1.94e-06
O18	18	8	5.75e-07
F18	18	9	0.00e+00
F19	19	9	3.88e-07

Isotope	A	Z	YIELD
Ne20	20	10	6.55e-05
Ne21	21	10	2.28e-07
Ne22	22	10	2.07e-04
Na22	22	11	0.00e+00
Na23	23	11	3.85e-06
Na24	24	11	0.00e+00
Mg24	24	12	3.53e-05
Mg25	25	12	5.20e-06
Mg26	26	12	5.95e-06
Al26	26	13	1.71e-08
Al27	27	13	4.01e-06
Si28	28	14	4.26e-05
Si29	29	14	2.25e-06
Si30	30	14	1.58e-06
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	4.35e-07
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	2.24e-05
S33	33	16	1.89e-07
S34	34	16	1.08e-06
S35	35	16	0.00e+00
S36	36	16	6.48e-09
Cl35	35	17	2.28e-07
Cl36	36	17	8.28e-11
Cl37	37	17	8.55e-08
Ar36	36	18	5.11e-06
Ar37	37	18	0.00e+00
Ar38	38	18	9.97e-07
Ar39	39	18	9.16e-13
Ar40	40	18	2.87e-09
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	2.14e-07
K40	40	19	6.92e-10
K41	41	19	1.85e-08
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	3.83e-06
Ca41	41	20	1.63e-10

Ca42	42	20	2.87e-08
Ca43	43	20	6.10e-09
Ca44	44	20	9.18e-08
Ca45	45	20	0.00e+00
Ca46	46	20	2.88e-10
Ca47	47	20	0.00e+00
Ca48	48	20	8.91e-09
Sc45	45	21	2.81e-09
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	1.52e-08
Ti47	47	22	1.38e-08
Ti48	48	22	1.38e-07
Ti49	49	22	1.18e-08
Ti50	50	22	1.37e-08
V50	50	23	5.84e-11
V51	51	23	2.42e-08
Cr50	50	24	4.64e-08
Cr51	51	24	0.00e+00
Cr52	52	24	9.44e-07
Cr53	53	24	1.09e-07
Cr54	54	24	3.22e-08
Mn55	55	25	8.34e-07
Mn56	56	25	0.00e+00
Fe54	54	26	4.47e-06
Fe55	55	26	2.37e-13
Fe56	56	26	7.34e-05
Fe57	57	26	1.89e-06
Fe58	58	26	4.30e-07
Fe59	59	26	0.00e+00
Fe60	60	26	5.18e-09
Co59	59	27	2.61e-07
Co60	60	27	0.00e+00
Ni58	58	28	3.07e-06
Ni59	59	28	1.14e-09
Ni60	60	28	1.26e-06
Ni61	61	28	6.77e-08
Ni62	62	28	1.96e-07
Ni63	63	28	4.44e-13

Ni64	64	28	5.73e-08
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	4.66e-08
Cu64	64	29	0.00e+00
Cu65	65	29	2.03e-08
Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	6.58e-08
Zn65	65	30	0.00e+00
Zn66	66	30	4.07e-08
Zn67	67	30	6.26e-09
Zn68	68	30	2.90e-08
Zn69	69	30	0.00e+00
Zn70	70	30	8.94e-10
Ga69	69	31	2.88e-09
Ga70	70	31	0.00e+00
Ga71	71	31	2.06e-09
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	3.59e-09
Ge71	71	32	0.00e+00
Ge72	72	32	4.65e-09
Ge73	73	32	1.32e-09
Ge74	74	32	6.18e-09
Ge75	75	32	0.00e+00
Ge76	76	32	1.11e-09
Ge77	77	32	0.00e+00
As75	75	33	8.22e-10
As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	1.10e-09
Se77	77	34	7.68e-10
Se78	78	34	2.50e-09
Se79	79	34	9.46e-11
Se80	80	34	5.32e-09
Se81	81	34	0.00e+00
Se82	82	34	7.49e-10
Br79	79	35	8.26e-10
Br80	80	35	0.00e+00
Br81	81	35	8.75e-10

Br82	82	35	0.00e+00		Mo92	92	42	6.23e-11
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	4.49e-11
Kr80	80	36	1.90e-10		Mo95	95	42	2.22e-10
Kr81	81	36	3.78e-12		Mo96	96	42	3.54e-10
Kr82	82	36	1.41e-09		Mo97	97	42	1.41e-10
Kr83	83	36	1.05e-09		Mo98	98	42	4.62e-10
Kr84	84	36	5.52e-09		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	6.38e-11
Kr86	86	36	1.93e-09		Tc97	97	43	0.00e+00
Kr87	87	36	0.00e+00		Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00		Tc99	99	43	1.54e-11
Rb85	85	37	9.45e-10		Ru96	96	44	1.56e-11
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	5.14e-10		Ru98	98	44	5.40e-12
Rb88	88	37	0.00e+00		Ru99	99	44	7.05e-11
Sr86	86	38	7.47e-10		Ru00	100	44	2.09e-10
Sr87	87	38	5.31e-10		Ru01	101	44	8.94e-11
Sr88	88	38	1.09e-08		Ru02	102	44	2.95e-10
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	7.75e-11
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	2.65e-09		Rh03	103	45	1.03e-10
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	1.55e-10
Y92	92	39	0.00e+00		Pd05	105	46	9.06e-11
Y93	93	39	0.00e+00		Pd06	106	46	2.29e-10
Zr90	90	40	2.92e-09		Pd07	107	46	3.05e-11
Zr91	91	40	8.11e-10		Pd08	108	46	2.74e-10
Zr92	92	40	1.31e-09		Pd09	109	46	0.00e+00
Zr93	93	40	2.76e-10		Pd10	110	46	5.08e-11
Zr94	94	40	1.68e-09		Ag07	107	47	4.51e-11
Zr95	95	40	0.00e+00		Ag09	109	47	9.48e-11
Zr96	96	40	2.72e-10		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	2.70e-12
Nb93	93	41	1.74e-10		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	2.05e-10
Nb95	95	41	0.00e+00		Cd11	111	48	9.70e-11
Nb96	96	41	0.00e+00		Cd12	112	48	3.03e-10
Nb97	97	41	0.00e+00		Cd13	113	48	1.04e-10

Cd14	114	48	4.31e-10		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	2.11e-10
Cd16	116	48	6.61e-11		Xe35	135	54	0.00e+00
In13	113	49	1.42e-12		Xe36	136	54	9.53e-11
In15	115	49	1.03e-10		Cs33	133	55	1.95e-10
Sn14	114	50	4.51e-12		Cs34	134	55	0.00e+00
Sn15	115	50	2.34e-12		Cs35	135	55	8.11e-11
Sn16	116	50	5.72e-10		Cs36	136	55	0.00e+00
Sn17	117	50	2.02e-10		Cs37	137	55	0.00e+00
Sn18	118	50	8.96e-10		Ba34	134	56	2.73e-10
Sn19	119	50	2.77e-10		Ba35	135	56	1.53e-10
Sn20	120	50	1.46e-09		Ba36	136	56	9.34e-10
Sn21	121	50	0.00e+00		Ba37	137	56	9.01e-10
Sn22	122	50	1.22e-10		Ba38	138	56	1.27e-08
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00
Sn24	124	50	4.55e-11		Ba40	140	56	0.00e+00
Sb21	121	51	1.31e-10		La39	139	57	1.63e-09
Sb22	122	51	0.00e+00		La40	140	57	0.00e+00
Sb23	123	51	5.17e-11		Ce40	140	58	5.41e-09
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	2.27e-10
Te22	122	52	1.65e-10		Ce43	143	58	0.00e+00
Te23	123	52	5.64e-11		Ce44	144	58	0.00e+00
Te24	124	52	3.43e-10		Pr41	141	59	5.57e-10
Te25	125	52	1.69e-10		Pr42	142	59	0.00e+00
Te26	126	52	7.72e-10		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	3.85e-10		Nd42	142	60	1.36e-09
Te30	130	52	3.44e-10		Nd43	143	60	2.39e-10
I127	127	53	2.84e-10		Nd44	144	60	7.41e-10
I128	128	53	0.00e+00		Nd45	145	60	1.45e-10
I129	129	53	2.32e-12		Nd46	146	60	6.84e-10
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	1.07e-10
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	1.32e-11
Xe28	128	54	2.10e-10		Pm45	145	61	0.00e+00
Xe29	129	54	3.83e-10		Pm46	146	61	0.00e+00
Xe30	130	54	4.51e-10		Pm47	147	61	0.00e+00
Xe31	131	54	3.63e-10		Pm48	148	61	0.00e+00
Xe32	132	54	1.13e-09		Pm49	149	61	0.00e+00

Pm50	150	61	0.00e+00
Pm51	151	61	0.00e+00
Sm44	144	62	1.84e-12
Sm45	145	62	0.00e+00
Sm46	146	62	0.00e+00
Sm47	147	62	8.50e-11
Sm48	148	62	1.81e-10
Sm49	149	62	4.00e-11
Sm50	150	62	1.44e-10
Sm51	151	62	0.00e+00
Sm52	152	62	1.37e-10
Sm53	153	62	0.00e+00
Sm54	154	62	6.06e-11
Eu51	151	63	3.04e-11
Eu52	152	63	0.00e+00
Eu53	153	63	3.45e-11
Eu54	154	63	0.00e+00
Eu55	155	63	0.00e+00
Eu56	156	63	0.00e+00
Eu57	157	63	0.00e+00
Gd52	152	64	1.42e-12
Gd53	153	64	0.00e+00
Gd54	154	64	3.46e-11
Gd55	155	64	4.30e-11
Gd56	156	64	1.12e-10
Gd57	157	64	5.68e-11
Gd58	158	64	1.96e-10
Gd59	159	64	0.00e+00
Gd60	160	64	5.08e-11
Tb59	159	65	5.45e-11
Tb60	160	65	0.00e+00
Tb61	161	65	0.00e+00
Dy60	160	66	5.96e-11
Dy61	161	66	4.85e-11
Dy62	162	66	1.53e-10
Dy63	163	66	6.63e-11
Dy64	164	66	2.53e-10
Dy65	165	66	0.00e+00
Dy66	166	66	0.00e+00
Ho63	163	67	1.18e-13
Ho64	164	67	0.00e+00

Ho65	165	67	7.93e-11
Ho66	166	67	0.00e+00
Er64	164	68	2.19e-11
Er65	165	68	0.00e+00
Er66	166	68	1.08e-10
Er67	167	68	5.54e-11
Er68	168	68	1.90e-10
Er69	169	68	0.00e+00
Er70	170	68	8.59e-11
Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	5.59e-11
Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00
Tm73	173	69	0.00e+00
Yb70	170	70	5.65e-11
Yb71	171	70	8.74e-11
Yb72	172	70	2.20e-10
Yb73	173	70	1.08e-10
Yb74	174	70	4.98e-10
Yb75	175	70	0.00e+00
Yb76	176	70	8.50e-11
Yb77	177	70	0.00e+00
Lu75	175	71	7.61e-11
Lu76	176	71	1.20e-11
Lu77	177	71	0.00e+00
Hf76	176	72	8.63e-11
Hf77	177	72	6.40e-11
Hf78	178	72	2.69e-10
Hf79	179	72	9.51e-11
Hf80	180	72	5.21e-10
Hf81	181	72	0.00e+00
Hf82	182	72	4.47e-11
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00
Ta81	181	73	1.13e-10
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00

Isotope	A	Z	
Ta84	184	73	0.00e+00
W180	180	74	0.00e+00
W181	181	74	0.00e+00
W182	182	74	1.94e-10
W183	183	74	1.35e-10
W184	184	74	3.66e-10
W185	185	74	0.00e+00
W186	186	74	2.27e-10
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	7.53e-11
Re86	186	75	0.00e+00
Re87	187	75	5.11e-11
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	1.21e-10
Os87	187	76	3.82e-11
Os88	188	76	2.18e-10
Os89	189	76	8.53e-11
Os90	190	76	3.06e-10
Os91	191	76	0.00e+00
Os92	192	76	1.55e-10
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	1.29e-10
Ir92	192	77	0.00e+00
Ir93	193	77	1.94e-10
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	7.64e-11
Pt93	193	78	0.00e+00
Pt94	194	78	4.42e-10
Pt95	195	78	2.62e-10
Pt96	196	78	5.83e-10
Pt97	197	78	0.00e+00
Pt98	198	78	6.76e-11
Au97	197	79	1.94e-10
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	4.09e-10
Hg99	199	80	2.13e-10

Isotope	A	Z	
Hg00	200	80	6.80e-10
Hg01	201	80	2.95e-10
Hg02	202	80	1.14e-09
Hg03	203	80	0.00e+00
Hg04	204	80	3.64e-11
Tl03	203	81	5.72e-10
Tl04	204	81	0.00e+00
Tl05	205	81	1.32e-09
Pb04	204	82	7.41e-10
Pb05	205	82	9.06e-11
Pb06	206	82	7.45e-09
Pb07	207	82	1.32e-08
Pb08	208	82	2.07e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	3.02e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M_o = 1.50; Z = 0.001000; IRV = 60 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [M_o]
H	1	1	6.05e-01
He4	4	2	2.37e-01
C12	12	6	4.44e-03
C13	13	6	4.55e-06
C14	14	6	1.31e-10
N14	14	7	1.16e-04
N15	15	7	8.95e-08
O16	16	8	4.96e-04
O17	17	8	1.92e-06
O18	18	8	5.76e-07
F18	18	9	0.00e+00
F19	19	9	5.47e-07
Ne20	20	10	6.56e-05
Ne21	21	10	2.14e-07
Ne22	22	10	2.10e-04

Na22	22	11	0.00e+00
Na23	23	11	4.05e-06
Na24	24	11	0.00e+00
Mg24	24	12	3.56e-05
Mg25	25	12	5.22e-06
Mg26	26	12	5.87e-06
Al26	26	13	2.17e-08
Al27	27	13	4.05e-06
Si28	28	14	4.28e-05
Si29	29	14	2.26e-06
Si30	30	14	1.57e-06
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	4.18e-07
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	2.24e-05
S33	33	16	1.89e-07
S34	34	16	1.07e-06
S35	35	16	0.00e+00
S36	36	16	5.78e-09
Cl35	35	17	2.29e-07
Cl36	36	17	8.24e-11
Cl37	37	17	9.27e-08
Ar36	36	18	5.12e-06
Ar37	37	18	0.00e+00
Ar38	38	18	9.99e-07
Ar39	39	18	9.24e-13
Ar40	40	18	2.51e-09
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	2.15e-07
K40	40	19	7.87e-10
K41	41	19	1.85e-08
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	3.85e-06
Ca41	41	20	1.67e-10
Ca42	42	20	2.87e-08
Ca43	43	20	6.11e-09
Ca44	44	20	9.27e-08

Ca45	45	20	0.00e+00
Ca46	46	20	2.12e-10
Ca47	47	20	0.00e+00
Ca48	48	20	8.94e-09
Sc45	45	21	2.84e-09
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	1.55e-08
Ti47	47	22	1.39e-08
Ti48	48	22	1.39e-07
Ti49	49	22	1.18e-08
Ti50	50	22	1.28e-08
V50	50	23	5.87e-11
V51	51	23	2.43e-08
Cr50	50	24	4.67e-08
Cr51	51	24	0.00e+00
Cr52	52	24	9.46e-07
Cr53	53	24	1.09e-07
Cr54	54	24	3.12e-08
Mn55	55	25	8.37e-07
Mn56	56	25	0.00e+00
Fe54	54	26	4.49e-06
Fe55	55	26	3.20e-13
Fe56	56	26	7.36e-05
Fe57	57	26	1.87e-06
Fe58	58	26	3.76e-07
Fe59	59	26	0.00e+00
Fe60	60	26	8.31e-10
Co59	59	27	2.49e-07
Co60	60	27	0.00e+00
Ni58	58	28	3.09e-06
Ni59	59	28	1.18e-09
Ni60	60	28	1.26e-06
Ni61	61	28	6.63e-08
Ni62	62	28	1.96e-07
Ni63	63	28	5.88e-13
Ni64	64	28	6.36e-08
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00

Cu63	63	29	4.54e-08		Kr80	80	36	2.77e-10
Cu64	64	29	0.00e+00		Kr81	81	36	1.91e-11
Cu65	65	29	2.37e-08		Kr82	82	36	3.10e-09
Cu66	66	29	0.00e+00		Kr83	83	36	1.67e-09
Cu67	67	29	0.00e+00		Kr84	84	36	9.32e-09
Zn64	64	30	6.69e-08		Kr85	85	36	0.00e+00
Zn65	65	30	0.00e+00		Kr86	86	36	2.12e-09
Zn66	66	30	4.57e-08		Kr87	87	36	0.00e+00
Zn67	67	30	7.38e-09		Kr88	88	36	0.00e+00
Zn68	68	30	3.54e-08		Rb85	85	37	1.72e-09
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	9.00e-10		Rb87	87	37	6.98e-10
Ga69	69	31	3.87e-09		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	2.13e-09
Ga71	71	31	3.17e-09		Sr87	87	38	1.53e-09
Ga72	72	31	0.00e+00		Sr88	88	38	2.74e-08
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	5.39e-09		Sr90	90	38	0.00e+00
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	6.87e-09		Sr92	92	38	0.00e+00
Ge73	73	32	1.96e-09		Y89	89	39	6.04e-09
Ge74	74	32	9.10e-09		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	1.12e-09		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	1.09e-09		Zr90	90	40	5.94e-09
As76	76	33	0.00e+00		Zr91	91	40	1.65e-09
As77	77	33	0.00e+00		Zr92	92	40	2.52e-09
Se76	76	34	2.07e-09		Zr93	93	40	5.94e-10
Se77	77	34	1.15e-09		Zr94	94	40	3.09e-09
Se78	78	34	3.97e-09		Zr95	95	40	0.00e+00
Se79	79	34	3.77e-10		Zr96	96	40	2.19e-10
Se80	80	34	8.02e-09		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	2.38e-10
Se82	82	34	7.53e-10		Nb94	94	41	0.00e+00
Br79	79	35	1.08e-09		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	1.28e-09		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	6.26e-11
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	5.13e-11

Mo95	95	42	3.69e-10		In13	113	49	1.43e-12
Mo96	96	42	6.39e-10		In15	115	49	1.61e-10
Mo97	97	42	2.34e-10		Sn14	114	50	4.53e-12
Mo98	98	42	8.14e-10		Sn15	115	50	2.35e-12
Mo99	99	42	0.00e+00		Sn16	116	50	9.52e-10
Mo00	100	42	7.33e-11		Sn17	117	50	3.14e-10
Tc97	97	43	0.00e+00		Sn18	118	50	1.38e-09
Tc98	98	43	0.00e+00		Sn19	119	50	4.18e-10
Tc99	99	43	3.05e-11		Sn20	120	50	2.14e-09
Ru96	96	44	1.57e-11		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	9.55e-11
Ru98	98	44	5.42e-12		Sn23	123	50	0.00e+00
Ru99	99	44	1.04e-10		Sn24	124	50	4.41e-11
Ru00	100	44	3.82e-10		Sb21	121	51	1.82e-10
Ru01	101	44	1.28e-10		Sb22	122	51	0.00e+00
Ru02	102	44	4.92e-10		Sb23	123	51	5.58e-11
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	9.04e-11		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	2.42e-10
Ru06	106	44	0.00e+00		Te23	123	52	8.30e-11
Rh03	103	45	1.45e-10		Te24	124	52	4.90e-10
Rh05	105	45	0.00e+00		Te25	125	52	2.19e-10
Pd04	104	46	2.82e-10		Te26	126	52	1.05e-09
Pd05	105	46	1.25e-10		Te27	127	52	0.00e+00
Pd06	106	46	3.84e-10		Te28	128	52	4.08e-10
Pd07	107	46	5.96e-11		Te30	130	52	3.45e-10
Pd08	108	46	4.70e-10		I127	127	53	3.22e-10
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	6.30e-11		I129	129	53	3.07e-12
Ag07	107	47	4.67e-11		I130	130	53	0.00e+00
Ag09	109	47	1.45e-10		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	2.96e-12		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	2.97e-10
Cd10	110	48	3.65e-10		Xe29	129	54	4.19e-10
Cd11	111	48	1.52e-10		Xe30	130	54	6.30e-10
Cd12	112	48	5.10e-10		Xe31	131	54	4.15e-10
Cd13	113	48	1.64e-10		Xe32	132	54	1.46e-09
Cd14	114	48	7.23e-10		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	1.68e-10
Cd16	116	48	7.68e-11		Xe35	135	54	0.00e+00

Xe36	136	54	9.50e-11	Sm45	145	62	0.00e+00
Cs33	133	55	2.40e-10	Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00	Sm47	147	62	4.82e-11
Cs35	135	55	9.41e-11	Sm48	148	62	9.62e-11
Cs36	136	55	0.00e+00	Sm49	149	62	2.44e-11
Cs37	137	55	0.00e+00	Sm50	150	62	7.39e-11
Ba34	134	56	3.79e-10	Sm51	151	62	0.00e+00
Ba35	135	56	1.90e-10	Sm52	152	62	7.62e-11
Ba36	136	56	1.24e-09	Sm53	153	62	0.00e+00
Ba37	137	56	1.07e-09	Sm54	154	62	3.63e-11
Ba38	138	56	1.08e-08	Eu51	151	63	2.08e-11
Ba39	139	56	0.00e+00	Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00	Eu53	153	63	2.33e-11
La39	139	57	1.30e-09	Eu54	154	63	0.00e+00
La40	140	57	0.00e+00	Eu55	155	63	0.00e+00
Ce40	140	58	3.53e-09	Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00	Eu57	157	63	0.00e+00
Ce42	142	58	8.78e-11	Gd52	152	64	7.47e-13
Ce43	143	58	0.00e+00	Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00	Gd54	154	64	1.77e-11
Pr41	141	59	3.60e-10	Gd55	155	64	2.75e-11
Pr42	142	59	0.00e+00	Gd56	156	64	6.33e-11
Pr43	143	59	0.00e+00	Gd57	157	64	3.43e-11
Pr45	145	59	0.00e+00	Gd58	158	64	1.04e-10
Nd42	142	60	8.38e-10	Gd59	159	64	0.00e+00
Nd43	143	60	1.46e-10	Gd60	160	64	3.32e-11
Nd44	144	60	4.21e-10	Tb59	159	65	3.39e-11
Nd45	145	60	8.52e-11	Tb60	160	65	0.00e+00
Nd46	146	60	3.69e-10	Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00	Dy60	160	66	2.92e-11
Nd48	148	60	5.59e-11	Dy61	161	66	3.30e-11
Nd49	149	60	0.00e+00	Dy62	162	66	8.49e-11
Nd50	150	60	1.22e-11	Dy63	163	66	4.46e-11
Pm45	145	61	0.00e+00	Dy64	164	66	1.32e-10
Pm46	146	61	0.00e+00	Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00	Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00	Ho63	163	67	0.00e+00
Pm49	149	61	0.00e+00	Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00	Ho65	165	67	4.93e-11
Pm51	151	61	0.00e+00	Ho66	166	67	0.00e+00
Sm44	144	62	1.85e-12	Er64	164	68	1.04e-11

Er65	165	68	0.00e+00		W182	182	74	8.00e-11
Er66	166	68	6.21e-11		W183	183	74	5.53e-11
Er67	167	68	3.44e-11		W184	184	74	1.49e-10
Er68	168	68	9.82e-11		W185	185	74	0.00e+00
Er69	169	68	0.00e+00		W186	186	74	9.48e-11
Er70	170	68	4.45e-11		W187	187	74	0.00e+00
Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	3.31e-11
Tm69	169	69	3.16e-11		Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00		Re87	187	75	2.43e-11
Tm71	171	69	0.00e+00		Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00		Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00		Os86	186	76	4.88e-11
Yb70	170	70	2.69e-11		Os87	187	76	1.89e-11
Yb71	171	70	4.57e-11		Os88	188	76	1.03e-10
Yb72	172	70	1.04e-10		Os89	189	76	5.42e-11
Yb73	173	70	5.25e-11		Os90	190	76	1.54e-10
Yb74	174	70	2.20e-10		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	1.13e-10
Yb76	176	70	3.89e-11		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	3.75e-11		Ir91	191	77	9.59e-11
Lu76	176	71	5.10e-12		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	1.53e-10
Hf76	176	72	3.73e-11		Ir94	194	77	0.00e+00
Hf77	177	72	3.18e-11		Ir95	195	77	0.00e+00
Hf78	178	72	1.16e-10		Pt92	192	78	3.16e-11
Hf79	179	72	4.15e-11		Pt93	193	78	0.00e+00
Hf80	180	72	2.09e-10		Pt94	194	78	2.56e-10
Hf81	181	72	0.00e+00		Pt95	195	78	1.90e-10
Hf82	182	72	1.61e-11		Pt96	196	78	2.92e-10
Hf83	183	72	0.00e+00		Pt97	197	78	0.00e+00
Hf84	184	72	0.00e+00		Pt98	198	78	4.40e-11
Ta79	179	73	0.00e+00		Au97	197	79	1.14e-10
Ta80	180	73	0.00e+00		Au98	198	79	0.00e+00
Ta81	181	73	4.68e-11		Au99	199	79	0.00e+00
Ta82	182	73	0.00e+00		Hg98	198	80	1.68e-10
Ta83	183	73	0.00e+00		Hg99	199	80	9.70e-11
Ta84	184	73	0.00e+00		Hg00	200	80	2.80e-10
W180	180	74	0.00e+00		Hg01	201	80	1.23e-10
W181	181	74	0.00e+00		Hg02	202	80	4.37e-10

Isotope	A	Z	YIELD
Hg03	203	80	0.00e+00
Hg04	204	80	1.57e-11
Tl03	203	81	2.14e-10
Tl04	204	81	0.00e+00
Tl05	205	81	4.55e-10
Pb04	204	82	2.72e-10
Pb05	205	82	3.41e-11
Pb06	206	82	1.88e-09
Pb07	207	82	2.19e-09
Pb08	208	82	4.35e-09
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	8.11e-11
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 1.50; Z = 0.002000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	6.02e-01
He4	4	2	2.44e-01
C12	12	6	4.94e-03
C13	13	6	8.44e-06
C14	14	6	1.32e-09
N14	14	7	2.19e-04
N15	15	7	2.13e-07
O16	16	8	8.86e-04
O17	17	8	2.65e-06
O18	18	8	1.18e-06
F18	18	9	0.00e+00
F19	19	9	2.98e-07
Ne20	20	10	1.32e-04
Ne21	21	10	4.47e-07
Ne22	22	10	2.23e-04
Na22	22	11	0.00e+00
Na23	23	11	6.45e-06
Na24	24	11	0.00e+00

Isotope	A	Z	YIELD
Mg24	24	12	6.89e-05
Mg25	25	12	9.43e-06
Mg26	26	12	1.06e-05
Al26	26	13	2.49e-08
Al27	27	13	7.79e-06
Si28	28	14	8.60e-05
Si29	29	14	4.54e-06
Si30	30	14	3.17e-06
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	8.82e-07
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	4.51e-05
S33	33	16	3.79e-07
S34	34	16	2.18e-06
S35	35	16	0.00e+00
S36	36	16	1.33e-08
Cl35	35	17	4.60e-07
Cl36	36	17	1.61e-10
Cl37	37	17	1.71e-07
Ar36	36	18	1.03e-05
Ar37	37	18	0.00e+00
Ar38	38	18	2.01e-06
Ar39	39	18	8.03e-13
Ar40	40	18	7.74e-09
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	4.33e-07
K40	40	19	1.40e-09
K41	41	19	3.65e-08
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	7.73e-06
Ca41	41	20	2.98e-10
Ca42	42	20	5.74e-08
Ca43	43	20	1.23e-08
Ca44	44	20	1.86e-07
Ca45	45	20	0.00e+00
Ca46	46	20	1.01e-09
Ca47	47	20	0.00e+00

Ca48	48	20	1.80e-08
Sc45	45	21	5.76e-09
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	3.09e-08
Ti47	47	22	2.78e-08
Ti48	48	22	2.80e-07
Ti49	49	22	2.33e-08
Ti50	50	22	2.90e-08
V50	50	23	1.18e-10
V51	51	23	4.89e-08
Cr50	50	24	9.38e-08
Cr51	51	24	0.00e+00
Cr52	52	24	1.90e-06
Cr53	53	24	2.20e-07
Cr54	54	24	6.41e-08
Mn55	55	25	1.68e-06
Mn56	56	25	0.00e+00
Fe54	54	26	9.03e-06
Fe55	55	26	1.95e-13
Fe56	56	26	1.48e-04
Fe57	57	26	3.74e-06
Fe58	58	26	7.93e-07
Fe59	59	26	0.00e+00
Fe60	60	26	6.31e-08
Co59	59	27	5.34e-07
Co60	60	27	1.28e-13
Ni58	58	28	6.21e-06
Ni59	59	28	2.34e-09
Ni60	60	28	2.56e-06
Ni61	61	28	1.42e-07
Ni62	62	28	4.06e-07
Ni63	63	28	2.53e-13
Ni64	64	28	1.42e-07
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	1.03e-07
Cu64	64	29	0.00e+00
Cu65	65	29	4.90e-08

Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	1.35e-07
Zn65	65	30	0.00e+00
Zn66	66	30	8.54e-08
Zn67	67	30	1.33e-08
Zn68	68	30	6.10e-08
Zn69	69	30	0.00e+00
Zn70	70	30	1.82e-09
Ga69	69	31	6.19e-09
Ga70	70	31	0.00e+00
Ga71	71	31	4.49e-09
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	7.83e-09
Ge71	71	32	0.00e+00
Ge72	72	32	9.84e-09
Ge73	73	32	2.79e-09
Ge74	74	32	1.38e-08
Ge75	75	32	0.00e+00
Ge76	76	32	2.26e-09
Ge77	77	32	0.00e+00
As75	75	33	1.81e-09
As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	2.33e-09
Se77	77	34	1.59e-09
Se78	78	34	6.10e-09
Se79	79	34	1.53e-10
Se80	80	34	1.09e-08
Se81	81	34	0.00e+00
Se82	82	34	1.52e-09
Br79	79	35	1.73e-09
Br80	80	35	0.00e+00
Br81	81	35	1.90e-09
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	4.14e-10
Kr81	81	36	1.45e-11
Kr82	82	36	3.06e-09

Kr83	83	36	2.21e-09		Mo98	98	42	1.35e-09
Kr84	84	36	1.15e-08		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	1.28e-10
Kr86	86	36	4.58e-09		Tc97	97	43	0.00e+00
Kr87	87	36	0.00e+00		Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00		Tc99	99	43	4.62e-11
Rb85	85	37	1.93e-09		Ru96	96	44	3.15e-11
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	1.27e-09		Ru98	98	44	1.09e-11
Rb88	88	37	0.00e+00		Ru99	99	44	1.84e-10
Sr86	86	38	1.79e-09		Ru00	100	44	6.22e-10
Sr87	87	38	1.25e-09		Ru01	101	44	2.23e-10
Sr88	88	38	2.65e-08		Ru02	102	44	9.48e-10
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	1.55e-10
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	6.34e-09		Rh03	103	45	2.59e-10
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	4.50e-10
Y92	92	39	0.00e+00		Pd05	105	46	2.17e-10
Y93	93	39	0.00e+00		Pd06	106	46	6.18e-10
Zr90	90	40	7.53e-09		Pd07	107	46	9.05e-11
Zr91	91	40	1.90e-09		Pd08	108	46	7.43e-10
Zr92	92	40	3.04e-09		Pd09	109	46	0.00e+00
Zr93	93	40	7.53e-10		Pd10	110	46	9.74e-11
Zr94	94	40	4.38e-09		Ag07	107	47	9.27e-11
Zr95	95	40	0.00e+00		Ag09	109	47	2.61e-10
Zr96	96	40	1.12e-09		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	6.12e-12
Nb93	93	41	4.04e-10		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	5.67e-10
Nb95	95	41	0.00e+00		Cd11	111	48	2.44e-10
Nb96	96	41	0.00e+00		Cd12	112	48	7.89e-10
Nb97	97	41	0.00e+00		Cd13	113	48	2.61e-10
Mo92	92	42	1.26e-10		Cd14	114	48	1.11e-09
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	1.01e-10		Cd16	116	48	1.14e-10
Mo95	95	42	5.88e-10		In13	113	49	2.87e-12
Mo96	96	42	9.96e-10		In15	115	49	2.54e-10
Mo97	97	42	4.01e-10		Sn14	114	50	9.19e-12

Sn15	115	50	4.76e-12		Cs35	135	55	2.01e-10
Sn16	116	50	1.49e-09		Cs36	136	55	0.00e+00
Sn17	117	50	5.01e-10		Cs37	137	55	0.00e+00
Sn18	118	50	2.22e-09		Ba34	134	56	7.92e-10
Sn19	119	50	6.97e-10		Ba35	135	56	4.03e-10
Sn20	120	50	3.68e-09		Ba36	136	56	2.64e-09
Sn21	121	50	0.00e+00		Ba37	137	56	2.50e-09
Sn22	122	50	3.47e-10		Ba38	138	56	3.65e-08
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00
Sn24	124	50	1.39e-10		Ba40	140	56	0.00e+00
Sb21	121	51	3.19e-10		La39	139	57	4.51e-09
Sb22	122	51	0.00e+00		La40	140	57	0.00e+00
Sb23	123	51	1.13e-10		Ce40	140	58	1.56e-08
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	7.73e-10
Te22	122	52	4.31e-10		Ce43	143	58	0.00e+00
Te23	123	52	1.50e-10		Ce44	144	58	0.00e+00
Te24	124	52	9.32e-10		Pr41	141	59	1.50e-09
Te25	125	52	4.26e-10		Pr42	142	59	0.00e+00
Te26	126	52	2.06e-09		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	8.46e-10		Nd42	142	60	3.99e-09
Te30	130	52	6.94e-10		Nd43	143	60	6.86e-10
I127	127	53	6.40e-10		Nd44	144	60	2.18e-09
I128	128	53	0.00e+00		Nd45	145	60	4.20e-10
I129	129	53	5.84e-12		Nd46	146	60	2.09e-09
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	2.42e-10
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	2.58e-11
Xe28	128	54	5.82e-10		Pm45	145	61	0.00e+00
Xe29	129	54	8.45e-10		Pm46	146	61	0.00e+00
Xe30	130	54	1.27e-09		Pm47	147	61	0.00e+00
Xe31	131	54	8.34e-10		Pm48	148	61	0.00e+00
Xe32	132	54	2.96e-09		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	5.64e-10		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	3.72e-12
Xe36	136	54	2.22e-10		Sm45	145	62	0.00e+00
Cs33	133	55	4.84e-10		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	2.54e-10

Sm48	148	62	5.99e-10		Er68	168	68	6.12e-10
Sm49	149	62	1.14e-10		Er69	169	68	0.00e+00
Sm50	150	62	4.41e-10		Er70	170	68	2.07e-10
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	4.03e-10		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	1.35e-10
Sm54	154	62	1.33e-10		Tm70	170	69	0.00e+00
Eu51	151	63	8.32e-11		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00
Eu53	153	63	9.75e-11		Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00		Yb70	170	70	1.90e-10
Eu55	155	63	0.00e+00		Yb71	171	70	2.69e-10
Eu56	156	63	0.00e+00		Yb72	172	70	6.56e-10
Eu57	157	63	0.00e+00		Yb73	173	70	3.12e-10
Gd52	152	64	4.85e-12		Yb74	174	70	1.46e-09
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00
Gd54	154	64	9.80e-11		Yb76	176	70	1.81e-10
Gd55	155	64	1.14e-10		Yb77	177	70	0.00e+00
Gd56	156	64	3.17e-10		Lu75	175	71	2.15e-10
Gd57	157	64	1.57e-10		Lu76	176	71	3.51e-11
Gd58	158	64	5.67e-10		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	2.65e-10
Gd60	160	64	1.07e-10		Hf77	177	72	1.77e-10
Tb59	159	65	1.54e-10		Hf78	178	72	7.38e-10
Tb60	160	65	0.00e+00		Hf79	179	72	2.62e-10
Tb61	161	65	0.00e+00		Hf80	180	72	1.46e-09
Dy60	160	66	1.88e-10		Hf81	181	72	0.00e+00
Dy61	161	66	1.29e-10		Hf82	182	72	7.19e-11
Dy62	162	66	4.54e-10		Hf83	183	72	0.00e+00
Dy63	163	66	1.83e-10		Hf84	184	72	0.00e+00
Dy64	164	66	8.06e-10		Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00		Ta80	180	73	0.00e+00
Dy66	166	66	0.00e+00		Ta81	181	73	3.14e-10
Ho63	163	67	3.28e-13		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta83	183	73	0.00e+00
Ho65	165	67	2.27e-10		Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00		W180	180	74	0.00e+00
Er64	164	68	6.62e-11		W181	181	74	0.00e+00
Er65	165	68	0.00e+00		W182	182	74	6.22e-10
Er66	166	68	3.27e-10		W183	183	74	4.13e-10
Er67	167	68	1.63e-10		W184	184	74	1.09e-09

Isotope	A	Z	YIELD
W185	185	74	0.00e+00
W186	186	74	4.43e-10
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	2.19e-10
Re86	186	75	0.00e+00
Re87	187	75	1.24e-10
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	3.87e-10
Os87	187	76	1.16e-10
Os88	188	76	8.54e-10
Os89	189	76	2.37e-10
Os90	190	76	9.91e-10
Os91	191	76	0.00e+00
Os92	192	76	5.61e-10
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	3.20e-10
Ir92	192	77	0.00e+00
Ir93	193	77	4.53e-10
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	2.61e-10
Pt93	193	78	0.00e+00
Pt94	194	78	1.19e-09
Pt95	195	78	6.53e-10
Pt96	196	78	1.55e-09
Pt97	197	78	0.00e+00
Pt98	198	78	1.24e-10
Au97	197	79	5.19e-10
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.29e-09
Hg99	199	80	6.44e-10
Hg00	200	80	2.08e-09
Hg01	201	80	8.85e-10
Hg02	202	80	3.64e-09
Hg03	203	80	0.00e+00
Hg04	204	80	8.86e-11
Tl03	203	81	1.62e-09

Isotope	A	Z	YIELD
Tl04	204	81	0.00e+00
Tl05	205	81	3.75e-09
Pb04	204	82	2.04e-09
Pb05	205	82	2.29e-10
Pb06	206	82	2.33e-08
Pb07	207	82	3.19e-08
Pb08	208	82	3.21e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	2.37e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 1.50; Z = 0.003000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	6.02e-01
He4	4	2	2.47e-01
C12	12	6	3.59e-03
C13	13	6	1.23e-05
C14	14	6	5.52e-11
N14	14	7	3.14e-04
N15	15	7	2.98e-07
O16	16	8	1.21e-03
O17	17	8	3.60e-06
O18	18	8	1.83e-06
F18	18	9	0.00e+00
F19	19	9	2.89e-07
Ne20	20	10	1.98e-04
Ne21	21	10	5.49e-07
Ne22	22	10	1.49e-04
Na22	22	11	0.00e+00
Na23	23	11	8.62e-06
Na24	24	11	0.00e+00
Mg24	24	12	1.01e-04
Mg25	25	12	1.34e-05
Mg26	26	12	1.54e-05

Al26	26	13	3.63e-08		Sc47	47	21	0.00e+00
Al27	27	13	1.15e-05		Sc48	48	21	0.00e+00
Si28	28	14	1.29e-04		Sc49	49	21	0.00e+00
Si29	29	14	6.80e-06		Ti46	46	22	4.61e-08
Si30	30	14	4.72e-06		Ti47	47	22	4.18e-08
Si31	31	14	0.00e+00		Ti48	48	22	4.22e-07
Si32	32	14	0.00e+00		Ti49	49	22	3.37e-08
P31	31	15	1.26e-06		Ti50	50	22	3.93e-08
P32	32	15	0.00e+00		V50	50	23	1.78e-10
P33	33	15	0.00e+00		V51	51	23	7.34e-08
S32	32	16	6.78e-05		Cr50	50	24	1.42e-07
S33	33	16	5.63e-07		Cr51	51	24	0.00e+00
S34	34	16	3.25e-06		Cr52	52	24	2.86e-06
S35	35	16	0.00e+00		Cr53	53	24	3.31e-07
S36	36	16	1.70e-08		Cr54	54	24	9.14e-08
Cl35	35	17	6.93e-07		Mn55	55	25	2.51e-06
Cl36	36	17	1.28e-10		Mn56	56	25	0.00e+00
Cl37	37	17	2.51e-07		Fe54	54	26	1.36e-05
Ar36	36	18	1.55e-05		Fe55	55	26	3.10e-13
Ar37	37	18	0.00e+00		Fe56	56	26	2.23e-04
Ar38	38	18	3.01e-06		Fe57	57	26	5.46e-06
Ar39	39	18	5.71e-13		Fe58	58	26	1.03e-06
Ar40	40	18	8.87e-09		Fe59	59	26	0.00e+00
Ar41	41	18	0.00e+00		Fe60	60	26	3.04e-08
Ar42	42	18	0.00e+00		Co59	59	27	7.48e-07
K39	39	19	6.49e-07		Co60	60	27	1.07e-13
K40	40	19	1.27e-09		Ni58	58	28	9.37e-06
K41	41	19	5.30e-08		Ni59	59	28	1.74e-09
K42	42	19	0.00e+00		Ni60	60	28	3.80e-06
K43	43	19	0.00e+00		Ni61	61	28	1.89e-07
Ca40	40	20	1.16e-05		Ni62	62	28	5.79e-07
Ca41	41	20	2.93e-10		Ni63	63	28	2.24e-13
Ca42	42	20	8.49e-08		Ni64	64	28	1.73e-07
Ca43	43	20	1.81e-08		Ni65	65	28	0.00e+00
Ca44	44	20	2.79e-07		Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00		Cu63	63	29	1.34e-07
Ca46	46	20	1.00e-09		Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00		Cu65	65	29	6.00e-08
Ca48	48	20	2.70e-08		Cu66	66	29	0.00e+00
Sc45	45	21	8.23e-09		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	2.00e-07

Zn65	65	30	0.00e+00		Kr86	86	36	5.96e-09
Zn66	66	30	1.21e-07		Kr87	87	36	0.00e+00
Zn67	67	30	1.84e-08		Kr88	88	36	0.00e+00
Zn68	68	30	8.54e-08		Rb85	85	37	2.55e-09
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	2.72e-09		Rb87	87	37	1.46e-09
Ga69	69	31	8.40e-09		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	2.27e-09
Ga71	71	31	6.02e-09		Sr87	87	38	1.55e-09
Ga72	72	31	0.00e+00		Sr88	88	38	3.38e-08
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	1.04e-08		Sr90	90	38	0.00e+00
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	1.35e-08		Sr92	92	38	0.00e+00
Ge73	73	32	3.81e-09		Y89	89	39	8.03e-09
Ge74	74	32	1.80e-08		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	3.38e-09		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	2.43e-09		Zr90	90	40	9.62e-09
As76	76	33	0.00e+00		Zr91	91	40	2.44e-09
As77	77	33	0.00e+00		Zr92	92	40	4.16e-09
Se76	76	34	3.10e-09		Zr93	93	40	9.16e-10
Se77	77	34	2.24e-09		Zr94	94	40	5.91e-09
Se78	78	34	7.25e-09		Zr95	95	40	0.00e+00
Se79	79	34	1.77e-10		Zr96	96	40	1.26e-09
Se80	80	34	1.55e-08		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	5.58e-10
Se82	82	34	2.28e-09		Nb94	94	41	0.00e+00
Br79	79	35	2.43e-09		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	2.60e-09		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	1.90e-10
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	1.56e-10
Kr80	80	36	6.42e-10		Mo95	95	42	7.21e-10
Kr81	81	36	2.52e-11		Mo96	96	42	1.29e-09
Kr82	82	36	3.98e-09		Mo97	97	42	5.27e-10
Kr83	83	36	3.06e-09		Mo98	98	42	1.73e-09
Kr84	84	36	1.58e-08		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	1.67e-10

Tc97	97	43	0.00e+00		Sn18	118	50	2.99e-09
Tc98	98	43	0.00e+00		Sn19	119	50	9.39e-10
Tc99	99	43	5.78e-11		Sn20	120	50	5.07e-09
Ru96	96	44	4.77e-11		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	4.76e-10
Ru98	98	44	1.65e-11		Sn23	123	50	0.00e+00
Ru99	99	44	2.46e-10		Sn24	124	50	1.67e-10
Ru00	100	44	7.89e-10		Sb21	121	51	4.44e-10
Ru01	101	44	3.03e-10		Sb22	122	51	0.00e+00
Ru02	102	44	1.04e-09		Sb23	123	51	1.49e-10
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	2.03e-10		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	6.19e-10
Ru06	106	44	0.00e+00		Te23	123	52	2.21e-10
Rh03	103	45	3.43e-10		Te24	124	52	1.33e-09
Rh05	105	45	0.00e+00		Te25	125	52	6.16e-10
Pd04	104	46	5.79e-10		Te26	126	52	2.85e-09
Pd05	105	46	2.99e-10		Te27	127	52	0.00e+00
Pd06	106	46	8.07e-10		Te28	128	52	1.26e-09
Pd07	107	46	1.13e-10		Te30	130	52	1.05e-09
Pd08	108	46	9.57e-10		I127	127	53	9.29e-10
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	1.17e-10		I129	129	53	6.95e-12
Ag07	107	47	1.39e-10		I130	130	53	0.00e+00
Ag09	109	47	3.19e-10		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	9.66e-12		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	7.88e-10
Cd10	110	48	7.37e-10		Xe29	129	54	1.23e-09
Cd11	111	48	3.25e-10		Xe30	130	54	1.71e-09
Cd12	112	48	1.02e-09		Xe31	131	54	1.20e-09
Cd13	113	48	3.44e-10		Xe32	132	54	3.99e-09
Cd14	114	48	1.44e-09		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	7.97e-10
Cd16	116	48	1.41e-10		Xe35	135	54	0.00e+00
In13	113	49	4.34e-12		Xe36	136	54	3.02e-10
In15	115	49	3.34e-10		Cs33	133	55	6.56e-10
Sn14	114	50	1.38e-11		Cs34	134	55	0.00e+00
Sn15	115	50	7.17e-12		Cs35	135	55	1.88e-10
Sn16	116	50	1.97e-09		Cs36	136	55	0.00e+00
Sn17	117	50	6.80e-10		Cs37	137	55	0.00e+00

Ba34	134	56	1.15e-09		Sm51	151	62	0.00e+00
Ba35	135	56	5.99e-10		Sm52	152	62	5.31e-10
Ba36	136	56	3.45e-09		Sm53	153	62	0.00e+00
Ba37	137	56	3.46e-09		Sm54	154	62	1.32e-10
Ba38	138	56	4.93e-08		Eu51	151	63	1.15e-10
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	1.25e-10
La39	139	57	6.45e-09		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	2.15e-08		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	1.06e-09		Gd52	152	64	7.29e-12
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	1.45e-10
Pr41	141	59	1.97e-09		Gd55	155	64	1.45e-10
Pr42	142	59	0.00e+00		Gd56	156	64	4.23e-10
Pr43	143	59	0.00e+00		Gd57	157	64	2.17e-10
Pr45	145	59	0.00e+00		Gd58	158	64	8.34e-10
Nd42	142	60	5.48e-09		Gd59	159	64	0.00e+00
Nd43	143	60	9.15e-10		Gd60	160	64	1.20e-10
Nd44	144	60	2.91e-09		Tb59	159	65	2.21e-10
Nd45	145	60	5.60e-10		Tb60	160	65	0.00e+00
Nd46	146	60	2.83e-09		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	2.70e-10
Nd48	148	60	2.33e-10		Dy61	161	66	1.85e-10
Nd49	149	60	0.00e+00		Dy62	162	66	6.50e-10
Nd50	150	60	3.67e-11		Dy63	163	66	2.66e-10
Pm45	145	61	0.00e+00		Dy64	164	66	1.13e-09
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	4.81e-13
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	3.20e-10
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	5.63e-12		Er64	164	68	9.41e-11
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	4.82e-10
Sm47	147	62	3.38e-10		Er67	167	68	2.39e-10
Sm48	148	62	8.75e-10		Er68	168	68	8.79e-10
Sm49	149	62	1.56e-10		Er69	169	68	0.00e+00
Sm50	150	62	5.97e-10		Er70	170	68	1.93e-10

Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	2.46e-10
Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00
Tm73	173	69	0.00e+00
Yb70	170	70	2.69e-10
Yb71	171	70	3.37e-10
Yb72	172	70	8.88e-10
Yb73	173	70	4.29e-10
Yb74	174	70	1.96e-09
Yb75	175	70	0.00e+00
Yb76	176	70	1.75e-10
Yb77	177	70	0.00e+00
Lu75	175	71	2.91e-10
Lu76	176	71	4.72e-11
Lu77	177	71	0.00e+00
Hf76	176	72	3.44e-10
Hf77	177	72	2.34e-10
Hf78	178	72	1.01e-09
Hf79	179	72	3.52e-10
Hf80	180	72	1.92e-09
Hf81	181	72	0.00e+00
Hf82	182	72	7.57e-11
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00
Ta81	181	73	4.07e-10
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	1.37e-13
W181	181	74	0.00e+00
W182	182	74	8.54e-10
W183	183	74	5.56e-10
W184	184	74	1.49e-09
W185	185	74	0.00e+00
W186	186	74	5.18e-10
W187	187	74	0.00e+00

W188	188	74	0.00e+00
Re85	185	75	2.96e-10
Re86	186	75	0.00e+00
Re87	187	75	1.22e-10
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	5.41e-10
Os87	187	76	1.77e-10
Os88	188	76	8.13e-10
Os89	189	76	3.03e-10
Os90	190	76	1.18e-09
Os91	191	76	0.00e+00
Os92	192	76	4.32e-10
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	4.48e-10
Ir92	192	77	0.00e+00
Ir93	193	77	6.40e-10
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	3.72e-10
Pt93	193	78	0.00e+00
Pt94	194	78	1.69e-09
Pt95	195	78	9.44e-10
Pt96	196	78	2.33e-09
Pt97	197	78	0.00e+00
Pt98	198	78	1.63e-10
Au97	197	79	7.32e-10
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.69e-09
Hg99	199	80	8.20e-10
Hg00	200	80	2.60e-09
Hg01	201	80	1.10e-09
Hg02	202	80	4.47e-09
Hg03	203	80	0.00e+00
Hg04	204	80	1.31e-10
Tl03	203	81	2.09e-09
Tl04	204	81	0.00e+00
Tl05	205	81	5.58e-09
Pb04	204	82	3.23e-09

Isotope	A	Z	YIELD [M⊙]
Pb05	205	82	3.39e-10
Pb06	206	82	2.53e-08
Pb07	207	82	4.16e-08
Pb08	208	82	1.32e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	1.26e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M_α = 1.50; Z = 0.003000; IRV = 60 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [M⊙]
H	1	1	6.00e-01
He4	4	2	2.46e-01
C12	12	6	3.50e-03
C13	13	6	1.31e-05
C14	14	6	6.63e-11
N14	14	7	3.13e-04
N15	15	7	2.80e-07
O16	16	8	1.21e-03
O17	17	8	3.63e-06
O18	18	8	1.82e-06
F18	18	9	0.00e+00
F19	19	9	5.49e-07
Ne20	20	10	1.97e-04
Ne21	21	10	5.41e-07
Ne22	22	10	1.71e-04
Na22	22	11	0.00e+00
Na23	23	11	8.88e-06
Na24	24	11	0.00e+00
Mg24	24	12	1.02e-04
Mg25	25	12	1.34e-05
Mg26	26	12	1.54e-05
Al26	26	13	3.90e-08
Al27	27	13	1.15e-05
Si28	28	14	1.29e-04
Si29	29	14	6.78e-06
Si30	30	14	4.69e-06
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	1.24e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	6.76e-05
S33	33	16	5.61e-07
S34	34	16	3.22e-06
S35	35	16	0.00e+00
S36	36	16	1.66e-08
Cl35	35	17	6.90e-07
Cl36	36	17	1.45e-10
Cl37	37	17	2.69e-07
Ar36	36	18	1.55e-05
Ar37	37	18	0.00e+00
Ar38	38	18	3.00e-06
Ar39	39	18	7.65e-13
Ar40	40	18	7.31e-09
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	6.48e-07
K40	40	19	1.68e-09
K41	41	19	5.33e-08
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	1.16e-05
Ca41	41	20	3.31e-10
Ca42	42	20	8.53e-08
Ca43	43	20	1.82e-08
Ca44	44	20	2.78e-07
Ca45	45	20	0.00e+00
Ca46	46	20	6.31e-10
Ca47	47	20	0.00e+00
Ca48	48	20	2.69e-08
Sc45	45	21	8.14e-09
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00

Ti46	46	22	4.63e-08		Zn68	68	30	1.00e-07
Ti47	47	22	4.17e-08		Zn69	69	30	0.00e+00
Ti48	48	22	4.20e-07		Zn70	70	30	2.71e-09
Ti49	49	22	3.38e-08		Ga69	69	31	1.09e-08
Ti50	50	22	3.51e-08		Ga70	70	31	0.00e+00
V50	50	23	1.78e-10		Ga71	71	31	8.96e-09
V51	51	23	7.30e-08		Ga72	72	31	0.00e+00
Cr50	50	24	1.41e-07		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	1.51e-08
Cr52	52	24	2.85e-06		Ge71	71	32	0.00e+00
Cr53	53	24	3.29e-07		Ge72	72	32	1.88e-08
Cr54	54	24	9.07e-08		Ge73	73	32	5.30e-09
Mn55	55	25	2.50e-06		Ge74	74	32	2.47e-08
Mn56	56	25	0.00e+00		Ge75	75	32	0.00e+00
Fe54	54	26	1.36e-05		Ge76	76	32	3.37e-09
Fe55	55	26	3.67e-13		Ge77	77	32	0.00e+00
Fe56	56	26	2.22e-04		As75	75	33	3.04e-09
Fe57	57	26	5.45e-06		As76	76	33	0.00e+00
Fe58	58	26	1.03e-06		As77	77	33	0.00e+00
Fe59	59	26	0.00e+00		Se76	76	34	5.34e-09
Fe60	60	26	2.72e-09		Se77	77	34	3.14e-09
Co59	59	27	7.35e-07		Se78	78	34	1.06e-08
Co60	60	27	0.00e+00		Se79	79	34	7.15e-10
Ni58	58	28	9.34e-06		Se80	80	34	2.13e-08
Ni59	59	28	2.00e-09		Se81	81	34	0.00e+00
Ni60	60	28	3.80e-06		Se82	82	34	2.26e-09
Ni61	61	28	1.92e-07		Br79	79	35	2.98e-09
Ni62	62	28	5.92e-07		Br80	80	35	0.00e+00
Ni63	63	28	5.09e-13		Br81	81	35	3.55e-09
Ni64	64	28	1.92e-07		Br82	82	35	0.00e+00
Ni65	65	28	0.00e+00		Br83	83	35	0.00e+00
Ni66	66	28	0.00e+00		Br84	84	35	0.00e+00
Cu63	63	29	1.36e-07		Kr80	80	36	1.03e-09
Cu64	64	29	0.00e+00		Kr81	81	36	1.00e-10
Cu65	65	29	6.96e-08		Kr82	82	36	7.78e-09
Cu66	66	29	0.00e+00		Kr83	83	36	4.36e-09
Cu67	67	29	0.00e+00		Kr84	84	36	2.30e-08
Zn64	64	30	2.04e-07		Kr85	85	36	0.00e+00
Zn65	65	30	0.00e+00		Kr86	86	36	5.14e-09
Zn66	66	30	1.33e-07		Kr87	87	36	0.00e+00
Zn67	67	30	2.11e-08		Kr88	88	36	0.00e+00

Rb85	85	37	3.79e-09
Rb86	86	37	0.00e+00
Rb87	87	37	1.16e-09
Rb88	88	37	0.00e+00
Sr86	86	38	5.36e-09
Sr87	87	38	3.67e-09
Sr88	88	38	5.01e-08
Sr89	89	38	0.00e+00
Sr90	90	38	0.00e+00
Sr91	91	38	0.00e+00
Sr92	92	38	0.00e+00
Y89	89	39	9.95e-09
Y90	90	39	0.00e+00
Y91	91	39	0.00e+00
Y92	92	39	0.00e+00
Y93	93	39	0.00e+00
Zr90	90	40	1.01e-08
Zr91	91	40	2.44e-09
Zr92	92	40	3.69e-09
Zr93	93	40	7.64e-10
Zr94	94	40	4.47e-09
Zr95	95	40	0.00e+00
Zr96	96	40	2.09e-10
Zr97	97	40	0.00e+00
Nb93	93	41	5.05e-10
Nb94	94	41	0.00e+00
Nb95	95	41	0.00e+00
Nb96	96	41	0.00e+00
Nb97	97	41	0.00e+00
Mo92	92	42	1.90e-10
Mo93	93	42	0.00e+00
Mo94	94	42	1.45e-10
Mo95	95	42	5.62e-10
Mo96	96	42	9.54e-10
Mo97	97	42	3.78e-10
Mo98	98	42	1.23e-09
Mo99	99	42	0.00e+00
Mo00	100	42	1.46e-10
Tc97	97	43	0.00e+00
Tc98	98	43	0.00e+00
Tc99	99	43	4.01e-11

Ru96	96	44	4.75e-11
Ru97	97	44	0.00e+00
Ru98	98	44	1.64e-11
Ru99	99	44	1.95e-10
Ru00	100	44	5.53e-10
Ru01	101	44	2.50e-10
Ru02	102	44	7.77e-10
Ru03	103	44	0.00e+00
Ru04	104	44	1.89e-10
Ru05	105	44	0.00e+00
Ru06	106	44	0.00e+00
Rh03	103	45	2.86e-10
Rh05	105	45	0.00e+00
Pd04	104	46	4.06e-10
Pd05	105	46	2.53e-10
Pd06	106	46	5.92e-10
Pd07	107	46	7.28e-11
Pd08	108	46	6.83e-10
Pd09	109	46	0.00e+00
Pd10	110	46	1.04e-10
Ag07	107	47	1.36e-10
Ag09	109	47	2.49e-10
Ag11	111	47	0.00e+00
Cd08	108	48	8.92e-12
Cd09	109	48	0.00e+00
Cd10	110	48	5.03e-10
Cd11	111	48	2.44e-10
Cd12	112	48	7.05e-10
Cd13	113	48	2.51e-10
Cd14	114	48	9.50e-10
Cd15	115	48	0.00e+00
Cd16	116	48	8.57e-11
In13	113	49	4.32e-12
In15	115	49	2.36e-10
Sn14	114	50	1.37e-11
Sn15	115	50	7.14e-12
Sn16	116	50	1.23e-09
Sn17	117	50	4.39e-10
Sn18	118	50	1.73e-09
Sn19	119	50	5.44e-10
Sn20	120	50	2.51e-09

Sn21	121	50	0.00e+00		Ba37	137	56	1.04e-09
Sn22	122	50	1.17e-10		Ba38	138	56	7.41e-09
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00
Sn24	124	50	1.32e-10		Ba40	140	56	0.00e+00
Sb21	121	51	2.48e-10		La39	139	57	8.83e-10
Sb22	122	51	0.00e+00		La40	140	57	0.00e+00
Sb23	123	51	9.89e-11		Ce40	140	58	1.99e-09
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	9.64e-11
Te22	122	52	2.93e-10		Ce43	143	58	0.00e+00
Te23	123	52	1.04e-10		Ce44	144	58	0.00e+00
Te24	124	52	5.81e-10		Pr41	141	59	2.26e-10
Te25	125	52	3.59e-10		Pr42	142	59	0.00e+00
Te26	126	52	1.38e-09		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	1.04e-09		Nd42	142	60	4.35e-10
Te30	130	52	1.04e-09		Nd43	143	60	1.10e-10
I127	127	53	7.31e-10		Nd44	144	60	2.54e-10
I128	128	53	0.00e+00		Nd45	145	60	6.98e-11
I129	129	53	2.29e-12		Nd46	146	60	2.06e-10
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	4.02e-11
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	3.44e-11
Xe28	128	54	3.28e-10		Pm45	145	61	0.00e+00
Xe29	129	54	1.04e-09		Pm46	146	61	0.00e+00
Xe30	130	54	6.83e-10		Pm47	147	61	0.00e+00
Xe31	131	54	9.03e-10		Pm48	148	61	0.00e+00
Xe32	132	54	1.91e-09		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	3.55e-10		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	5.60e-12
Xe36	136	54	2.86e-10		Sm45	145	62	0.00e+00
Cs33	133	55	3.71e-10		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	3.96e-11
Cs35	135	55	4.16e-11		Sm48	148	62	5.25e-11
Cs36	136	55	0.00e+00		Sm49	149	62	3.06e-11
Cs37	137	55	0.00e+00		Sm50	150	62	3.47e-11
Ba34	134	56	4.14e-10		Sm51	151	62	0.00e+00
Ba35	135	56	3.21e-10		Sm52	152	62	6.77e-11
Ba36	136	56	1.16e-09		Sm53	153	62	0.00e+00

Sm54	154	62	4.69e-11
Eu51	151	63	3.67e-11
Eu52	152	63	0.00e+00
Eu53	153	63	4.04e-11
Eu54	154	63	0.00e+00
Eu55	155	63	0.00e+00
Eu56	156	63	0.00e+00
Eu57	157	63	0.00e+00
Gd52	152	64	7.74e-13
Gd53	153	64	0.00e+00
Gd54	154	64	1.03e-11
Gd55	155	64	4.09e-11
Gd56	156	64	6.44e-11
Gd57	157	64	4.58e-11
Gd58	158	64	8.92e-11
Gd59	159	64	0.00e+00
Gd60	160	64	5.87e-11
Tb59	159	65	5.17e-11
Tb60	160	65	0.00e+00
Tb61	161	65	0.00e+00
Dy60	160	66	1.58e-11
Dy61	161	66	6.22e-11
Dy62	162	66	9.74e-11
Dy63	163	66	8.35e-11
Dy64	164	66	1.21e-10
Dy65	165	66	0.00e+00
Dy66	166	66	0.00e+00
Ho63	163	67	0.00e+00
Ho64	164	67	0.00e+00
Ho65	165	67	8.01e-11
Ho66	166	67	0.00e+00
Er64	164	68	6.31e-12
Er65	165	68	0.00e+00
Er66	166	68	8.33e-11
Er67	167	68	5.43e-11
Er68	168	68	8.31e-11
Er69	169	68	0.00e+00
Er70	170	68	3.67e-11
Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	3.77e-11

Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00
Tm73	173	69	0.00e+00
Yb70	170	70	1.47e-11
Yb71	171	70	3.99e-11
Yb72	172	70	7.18e-11
Yb73	173	70	4.62e-11
Yb74	174	70	1.24e-10
Yb75	175	70	0.00e+00
Yb76	176	70	3.05e-11
Yb77	177	70	0.00e+00
Lu75	175	71	3.73e-11
Lu76	176	71	2.02e-12
Lu77	177	71	0.00e+00
Hf76	176	72	1.75e-11
Hf77	177	72	3.32e-11
Hf78	178	72	6.67e-11
Hf79	179	72	2.93e-11
Hf80	180	72	1.02e-10
Hf81	181	72	0.00e+00
Hf82	182	72	1.15e-12
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00
Ta81	181	73	2.87e-11
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	1.36e-13
W181	181	74	0.00e+00
W182	182	74	5.11e-11
W183	183	74	3.01e-11
W184	184	74	7.17e-11
W185	185	74	0.00e+00
W186	186	74	4.44e-11
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	2.48e-11
Re86	186	75	0.00e+00

Isotope	A	Z	YIELD
Re87	187	75	2.35e-11
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	2.27e-11
Os87	187	76	2.29e-11
Os88	188	76	9.98e-11
Os89	189	76	1.06e-10
Os90	190	76	1.90e-10
Os91	191	76	0.00e+00
Os92	192	76	2.65e-10
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	2.31e-10
Ir92	192	77	0.00e+00
Ir93	193	77	3.89e-10
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	1.82e-11
Pt93	193	78	0.00e+00
Pt94	194	78	4.54e-10
Pt95	195	78	4.49e-10
Pt96	196	78	3.76e-10
Pt97	197	78	0.00e+00
Pt98	198	78	9.52e-11
Au97	197	79	2.02e-10
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	7.84e-11
Hg99	199	80	8.56e-11
Hg00	200	80	1.47e-10
Hg01	201	80	7.56e-11
Hg02	202	80	2.03e-10
Hg03	203	80	0.00e+00
Hg04	204	80	2.91e-11
Tl03	203	81	9.12e-11
Tl04	204	81	0.00e+00
Tl05	205	81	2.13e-10
Pb04	204	82	1.19e-10
Pb05	205	82	5.60e-12
Pb06	206	82	8.52e-10
Pb07	207	82	8.91e-10

Isotope	A	Z	YIELD
Pb08	208	82	2.16e-09
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	1.45e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 1.50; Z = 0.006000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	6.10e-01
He4	4	2	2.49e-01
C12	12	6	3.64e-03
C13	13	6	2.53e-05
C14	14	6	4.80e-11
N14	14	7	6.08e-04
N15	15	7	6.31e-07
O16	16	8	2.36e-03
O17	17	8	4.85e-06
O18	18	8	3.85e-06
F18	18	9	0.00e+00
F19	19	9	3.58e-07
Ne20	20	10	4.03e-04
Ne21	21	10	1.06e-06
Ne22	22	10	1.87e-04
Na22	22	11	0.00e+00
Na23	23	11	1.65e-05
Na24	24	11	0.00e+00
Mg24	24	12	2.04e-04
Mg25	25	12	2.67e-05
Mg26	26	12	3.09e-05
Al26	26	13	6.34e-08
Al27	27	13	2.32e-05
Si28	28	14	2.62e-04
Si29	29	14	1.38e-05
Si30	30	14	9.52e-06
Si31	31	14	0.00e+00

Si32	32	14	0.00e+00
P31	31	15	2.52e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	1.38e-04
S33	33	16	1.14e-06
S34	34	16	6.56e-06
S35	35	16	0.00e+00
S36	36	16	3.20e-08
Cl35	35	17	1.41e-06
Cl36	36	17	2.47e-10
Cl37	37	17	5.08e-07
Ar36	36	18	3.16e-05
Ar37	37	18	0.00e+00
Ar38	38	18	6.10e-06
Ar39	39	18	6.42e-13
Ar40	40	18	1.42e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	1.32e-06
K40	40	19	2.11e-09
K41	41	19	1.07e-07
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	2.37e-05
Ca41	41	20	6.04e-10
Ca42	42	20	1.71e-07
Ca43	43	20	3.65e-08
Ca44	44	20	5.65e-07
Ca45	45	20	0.00e+00
Ca46	46	20	1.46e-09
Ca47	47	20	0.00e+00
Ca48	48	20	5.49e-08
Sc45	45	21	1.63e-08
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	9.35e-08
Ti47	47	22	8.50e-08
Ti48	48	22	8.59e-07

Ti49	49	22	6.83e-08
Ti50	50	22	7.44e-08
V50	50	23	3.63e-10
V51	51	23	1.49e-07
Cr50	50	24	2.89e-07
Cr51	51	24	0.00e+00
Cr52	52	24	5.83e-06
Cr53	53	24	6.72e-07
Cr54	54	24	1.82e-07
Mn55	55	25	5.11e-06
Mn56	56	25	0.00e+00
Fe54	54	26	2.78e-05
Fe55	55	26	5.28e-13
Fe56	56	26	4.54e-04
Fe57	57	26	1.10e-05
Fe58	58	26	1.89e-06
Fe59	59	26	0.00e+00
Fe60	60	26	1.47e-08
Co59	59	27	1.45e-06
Co60	60	27	0.00e+00
Ni58	58	28	1.91e-05
Ni59	59	28	3.14e-09
Ni60	60	28	7.69e-06
Ni61	61	28	3.66e-07
Ni62	62	28	1.14e-06
Ni63	63	28	2.16e-13
Ni64	64	28	3.17e-07
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	2.51e-07
Cu64	64	29	0.00e+00
Cu65	65	29	1.15e-07
Cu68	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	4.01e-07
Zn65	65	30	0.00e+00
Zn66	66	30	2.42e-07
Zn67	67	30	3.67e-08
Zn68	68	30	1.72e-07
Zn69	69	30	0.00e+00
Zn70	70	30	5.53e-09

Ga69	69	31	1.69e-08		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	5.39e-09
Ga71	71	31	1.22e-08		Sr87	87	38	3.64e-09
Ga72	72	31	0.00e+00		Sr88	88	38	8.43e-08
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	2.11e-08		Sr90	90	38	0.00e+00
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	2.75e-08		Sr92	92	38	0.00e+00
Ge73	73	32	7.76e-09		Y89	89	39	1.95e-08
Ge74	74	32	3.68e-08		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	6.88e-09		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	4.97e-09		Zr90	90	40	2.34e-08
As76	76	33	0.00e+00		Zr91	91	40	5.79e-09
As77	77	33	0.00e+00		Zr92	92	40	9.96e-09
Se76	76	34	6.44e-09		Zr93	93	40	2.33e-09
Se77	77	34	4.62e-09		Zr94	94	40	1.41e-08
Se78	78	34	1.50e-08		Zr95	95	40	0.00e+00
Se79	79	34	3.66e-10		Zr96	96	40	1.94e-09
Se80	80	34	3.22e-08		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	1.20e-09
Se82	82	34	4.63e-09		Nb94	94	41	0.00e+00
Br79	79	35	4.97e-09		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	5.42e-09		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	3.88e-10
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	3.38e-10
Kr80	80	36	1.42e-09		Mo95	95	42	1.65e-09
Kr81	81	36	7.72e-11		Mo96	96	42	3.06e-09
Kr82	82	36	8.49e-09		Mo97	97	42	1.20e-09
Kr83	83	36	6.37e-09		Mo98	98	42	3.92e-09
Kr84	84	36	3.33e-08		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	3.32e-10
Kr86	86	36	1.13e-08		Tc97	97	43	0.00e+00
Kr87	87	36	0.00e+00		Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00		Tc99	99	43	1.48e-10
Rb85	85	37	5.35e-09		Ru96	96	44	9.73e-11
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	2.60e-09		Ru98	98	44	3.36e-11

Ru99	99	44	5.23e-10		Sn24	124	50	2.87e-10
Ru00	100	44	1.81e-09		Sb21	121	51	1.03e-09
Ru01	101	44	6.61e-10		Sb22	122	51	0.00e+00
Ru02	102	44	2.35e-09		Sb23	123	51	2.71e-10
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	4.02e-10		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	1.50e-09
Ru06	106	44	0.00e+00		Te23	123	52	5.43e-10
Rh03	103	45	7.44e-10		Te24	124	52	3.07e-09
Rh05	105	45	0.00e+00		Te25	125	52	1.38e-09
Pd04	104	46	1.37e-09		Te26	126	52	6.35e-09
Pd05	105	46	6.58e-10		Te27	127	52	0.00e+00
Pd06	106	46	1.87e-09		Te28	128	52	2.66e-09
Pd07	107	46	2.75e-10		Te30	130	52	2.13e-09
Pd08	108	46	2.25e-09		I127	127	53	1.96e-09
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	2.28e-10		I129	129	53	1.26e-11
Ag07	107	47	2.84e-10		I130	130	53	0.00e+00
Ag09	109	47	7.32e-10		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	2.19e-11		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	1.77e-09
Cd10	110	48	1.79e-09		Xe29	129	54	2.59e-09
Cd11	111	48	7.62e-10		Xe30	130	54	3.87e-09
Cd12	112	48	2.44e-09		Xe31	131	54	2.54e-09
Cd13	113	48	8.15e-10		Xe32	132	54	8.97e-09
Cd14	114	48	3.52e-09		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	1.30e-09
Cd16	116	48	3.03e-10		Xe35	135	54	0.00e+00
In13	113	49	8.84e-12		Xe36	136	54	5.89e-10
In15	115	49	7.96e-10		Cs33	133	55	1.44e-09
Sn14	114	50	2.81e-11		Cs34	134	55	0.00e+00
Sn15	115	50	1.46e-11		Cs35	135	55	3.36e-10
Sn16	116	50	4.90e-09		Cs36	136	55	0.00e+00
Sn17	117	50	1.66e-09		Cs37	137	55	0.00e+00
Sn18	118	50	7.21e-09		Ba34	134	56	2.75e-09
Sn19	119	50	2.27e-09		Ba35	135	56	1.36e-09
Sn20	120	50	1.19e-08		Ba36	136	56	7.78e-09
Sn21	121	50	0.00e+00		Ba37	137	56	7.28e-09
Sn22	122	50	7.12e-10		Ba38	138	56	8.81e-08
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00

Ba40	140	56	0.00e+00		Eu53	153	63	1.79e-10
La39	139	57	1.12e-08		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	3.28e-08		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	8.67e-10		Gd52	152	64	1.31e-11
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	1.88e-10
Pr41	141	59	2.88e-09		Gd55	155	64	1.99e-10
Pr42	142	59	0.00e+00		Gd56	156	64	5.58e-10
Pr43	143	59	0.00e+00		Gd57	157	64	2.99e-10
Pr45	145	59	0.00e+00		Gd58	158	64	1.06e-09
Nd42	142	60	8.09e-09		Gd59	159	64	0.00e+00
Nd43	143	60	1.26e-09		Gd60	160	64	1.58e-10
Nd44	144	60	3.84e-09		Tb59	159	65	3.04e-10
Nd45	145	60	7.45e-10		Tb60	160	65	0.00e+00
Nd46	146	60	3.68e-09		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	3.34e-10
Nd48	148	60	2.27e-10		Dy61	161	66	2.70e-10
Nd49	149	60	0.00e+00		Dy62	162	66	8.44e-10
Nd50	150	60	7.19e-11		Dy63	163	66	3.86e-10
Pm45	145	61	0.00e+00		Dy64	164	66	1.42e-09
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	6.34e-13
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	4.35e-10
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	1.15e-11		Er64	164	68	1.09e-10
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	6.52e-10
Sm47	147	62	4.36e-10		Er67	167	68	3.32e-10
Sm48	148	62	1.17e-09		Er68	168	68	1.08e-09
Sm49	149	62	2.15e-10		Er69	169	68	0.00e+00
Sm50	150	62	7.43e-10		Er70	170	68	1.73e-10
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	6.62e-10		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	3.09e-10
Sm54	154	62	1.52e-10		Tm70	170	69	0.00e+00
Eu51	151	63	1.68e-10		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00

Tm73	173	69	0.00e+00		Os86	186	76	6.26e-10
Yb70	170	70	3.25e-10		Os87	187	76	2.30e-10
Yb71	171	70	3.92e-10		Os88	188	76	9.45e-10
Yb72	172	70	1.06e-09		Os89	189	76	4.20e-10
Yb73	173	70	5.20e-10		Os90	190	76	1.39e-09
Yb74	174	70	2.24e-09		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	6.52e-10
Yb76	176	70	1.49e-10		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	3.48e-10		Ir91	191	77	6.89e-10
Lu76	176	71	5.20e-11		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	1.04e-09
Hf76	176	72	3.93e-10		Ir94	194	77	0.00e+00
Hf77	177	72	2.81e-10		Ir95	195	77	0.00e+00
Hf78	178	72	1.13e-09		Pt92	192	78	4.46e-10
Hf79	179	72	4.00e-10		Pt93	193	78	0.00e+00
Hf80	180	72	2.11e-09		Pt94	194	78	2.17e-09
Hf81	181	72	0.00e+00		Pt95	195	78	1.40e-09
Hf82	182	72	4.68e-11		Pt96	196	78	2.66e-09
Hf83	183	72	0.00e+00		Pt97	197	78	0.00e+00
Hf84	184	72	0.00e+00		Pt98	198	78	2.26e-10
Ta79	179	73	0.00e+00		Au97	197	79	9.13e-10
Ta80	180	73	0.00e+00		Au98	198	79	0.00e+00
Ta81	181	73	4.47e-10		Au99	199	79	0.00e+00
Ta82	182	73	0.00e+00		Hg98	198	80	1.70e-09
Ta83	183	73	0.00e+00		Hg99	199	80	8.53e-10
Ta84	184	73	0.00e+00		Hg00	200	80	2.61e-09
W180	180	74	2.79e-13		Hg01	201	80	1.10e-09
W181	181	74	0.00e+00		Hg02	202	80	4.45e-09
W182	182	74	1.02e-09		Hg03	203	80	0.00e+00
W183	183	74	6.22e-10		Hg04	204	80	9.40e-11
W184	184	74	1.62e-09		Tl03	203	81	1.98e-09
W185	185	74	0.00e+00		Tl04	204	81	0.00e+00
W186	186	74	4.09e-10		Tl05	205	81	5.15e-09
W187	187	74	0.00e+00		Pb04	204	82	3.22e-09
W188	188	74	0.00e+00		Pb05	205	82	2.95e-10
Re85	185	75	3.27e-10		Pb06	206	82	1.75e-08
Re86	186	75	0.00e+00		Pb07	207	82	1.87e-08
Re87	187	75	1.16e-10		Pb08	208	82	2.92e-08
Re88	188	75	0.00e+00		Pb09	209	82	0.00e+00
Re89	189	75	0.00e+00		Pb10	210	82	0.00e+00

Isotope	A	Z	YIELD [M$_\odot$]
Bi09	209	83	4.52e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M$_0$ = 1.50; Z = 0.006000; IRV = 60 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [M$_\odot$]
H	1	1	6.09e-01
He4	4	2	2.48e-01
C12	12	6	3.45e-03
C13	13	6	2.58e-05
C14	14	6	4.50e-11
N14	14	7	6.03e-04
N15	15	7	6.09e-07
O16	16	8	2.35e-03
O17	17	8	4.59e-06
O18	18	8	3.85e-06
F18	18	9	0.00e+00
F19	19	9	4.63e-07
Ne20	20	10	4.02e-04
Ne21	21	10	1.05e-06
Ne22	22	10	1.81e-04
Na22	22	11	0.00e+00
Na23	23	11	1.64e-05
Na24	24	11	0.00e+00
Mg24	24	12	2.04e-04
Mg25	25	12	2.66e-05
Mg26	26	12	3.07e-05
Al26	26	13	5.78e-08
Al27	27	13	2.30e-05
Si28	28	14	2.61e-04
Si29	29	14	1.38e-05
Si30	30	14	9.50e-06
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	2.50e-06
P32	32	15	0.00e+00

Isotope	A	Z	YIELD [M$_\odot$]
P33	33	15	0.00e+00
S32	32	16	1.37e-04
S33	33	16	1.13e-06
S34	34	16	6.53e-06
S35	35	16	0.00e+00
S36	36	16	3.26e-08
Cl35	35	17	1.40e-06
Cl36	36	17	2.09e-10
Cl37	37	17	5.36e-07
Ar36	36	18	3.14e-05
Ar37	37	18	0.00e+00
Ar38	38	18	6.09e-06
Ar39	39	18	6.86e-13
Ar40	40	18	1.37e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	1.32e-06
K40	40	19	2.70e-09
K41	41	19	1.07e-07
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	2.36e-05
Ca41	41	20	4.85e-10
Ca42	42	20	1.72e-07
Ca43	43	20	3.67e-08
Ca44	44	20	5.65e-07
Ca45	45	20	0.00e+00
Ca46	46	20	1.31e-09
Ca47	47	20	0.00e+00
Ca48	48	20	5.47e-08
Sc45	45	21	1.63e-08
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	9.37e-08
Ti47	47	22	8.48e-08
Ti48	48	22	8.55e-07
Ti49	49	22	6.78e-08
Ti50	50	22	6.99e-08
V50	50	23	3.62e-10

V51	51	23	1.48e-07		Ga72	72	31	0.00e+00
Cr50	50	24	2.88e-07		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	2.84e-08
Cr52	52	24	5.80e-06		Ge71	71	32	0.00e+00
Cr53	53	24	6.69e-07		Ge72	72	32	3.52e-08
Cr54	54	24	1.82e-07		Ge73	73	32	9.87e-09
Mn55	55	25	5.08e-06		Ge74	74	32	4.65e-08
Mn56	56	25	0.00e+00		Ge75	75	32	0.00e+00
Fe54	54	26	2.76e-05		Ge76	76	32	6.85e-09
Fe55	55	26	2.99e-13		Ge77	77	32	0.00e+00
Fe56	56	26	4.52e-04		As75	75	33	5.84e-09
Fe57	57	26	1.10e-05		As76	76	33	0.00e+00
Fe58	58	26	1.98e-06		As77	77	33	0.00e+00
Fe59	59	26	0.00e+00		Se76	76	34	9.70e-09
Fe60	60	26	9.56e-09		Se77	77	34	5.94e-09
Co59	59	27	1.47e-06		Se78	78	34	1.98e-08
Co60	60	27	0.00e+00		Se79	79	34	9.94e-10
Ni58	58	28	1.90e-05		Se80	80	34	4.08e-08
Ni59	59	28	2.39e-09		Se81	81	34	0.00e+00
Ni60	60	28	7.70e-06		Se82	82	34	4.60e-09
Ni61	61	28	3.79e-07		Br79	79	35	5.82e-09
Ni62	62	28	1.19e-06		Br80	80	35	0.00e+00
Ni63	63	28	4.07e-13		Br81	81	35	6.81e-09
Ni64	64	28	3.69e-07		Br82	82	35	0.00e+00
Ni65	65	28	0.00e+00		Br83	83	35	0.00e+00
Ni66	66	28	0.00e+00		Br84	84	35	0.00e+00
Cu63	63	29	2.67e-07		Kr80	80	36	2.07e-09
Cu64	64	29	0.00e+00		Kr81	81	36	1.81e-10
Cu65	65	29	1.34e-07		Kr82	82	36	1.36e-08
Cu66	66	29	0.00e+00		Kr83	83	36	8.06e-09
Cu67	67	29	0.00e+00		Kr84	84	36	4.29e-08
Zn64	64	30	4.10e-07		Kr85	85	36	0.00e+00
Zn65	65	30	0.00e+00		Kr86	86	36	1.11e-08
Zn66	66	30	2.63e-07		Kr87	87	36	0.00e+00
Zn67	67	30	4.11e-08		Kr88	88	36	0.00e+00
Zn68	68	30	1.95e-07		Rb85	85	37	7.10e-09
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	5.51e-09		Rb87	87	37	2.64e-09
Ga69	69	31	2.10e-08		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	9.43e-09
Ga71	71	31	1.66e-08		Sr87	87	38	6.22e-09

Sr88	88	38	8.83e-08		Ru02	102	44	1.33e-09
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	3.75e-10
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	1.85e-08		Rh03	103	45	5.30e-10
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	6.63e-10
Y92	92	39	0.00e+00		Pd05	105	46	4.72e-10
Y93	93	39	0.00e+00		Pd06	106	46	1.01e-09
Zr90	90	40	1.83e-08		Pd07	107	46	1.10e-10
Zr91	91	40	4.45e-09		Pd08	108	46	1.15e-09
Zr92	92	40	6.96e-09		Pd09	109	46	0.00e+00
Zr93	93	40	1.32e-09		Pd10	110	46	1.99e-10
Zr94	94	40	7.94e-09		Ag07	107	47	2.77e-10
Zr95	95	40	0.00e+00		Ag09	109	47	4.47e-10
Zr96	96	40	8.98e-10		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	1.90e-11
Nb93	93	41	1.05e-09		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	8.32e-10
Nb95	95	41	0.00e+00		Cd11	111	48	4.34e-10
Nb96	96	41	0.00e+00		Cd12	112	48	1.20e-09
Nb97	97	41	0.00e+00		Cd13	113	48	4.46e-10
Mo92	92	42	3.86e-10		Cd14	114	48	1.62e-09
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	3.11e-10		Cd16	116	48	1.90e-10
Mo95	95	42	1.03e-09		In13	113	49	8.81e-12
Mo96	96	42	1.71e-09		In15	115	49	4.16e-10
Mo97	97	42	7.01e-10		Sn14	114	50	2.80e-11
Mo98	98	42	2.14e-09		Sn15	115	50	1.45e-11
Mo99	99	42	0.00e+00		Sn16	116	50	2.11e-09
Mo00	100	42	3.01e-10		Sn17	117	50	7.82e-10
Tc97	97	43	0.00e+00		Sn18	118	50	3.01e-09
Tc98	98	43	0.00e+00		Sn19	119	50	9.52e-10
Tc99	99	43	5.08e-11		Sn20	120	50	4.25e-09
Ru96	96	44	9.69e-11		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	2.99e-10
Ru98	98	44	3.35e-11		Sn23	123	50	0.00e+00
Ru99	99	44	3.78e-10		Sn24	124	50	2.70e-10
Ru00	100	44	9.16e-10		Sb21	121	51	4.39e-10
Ru01	101	44	4.64e-10		Sb22	122	51	0.00e+00

Sb23	123	51	1.95e-10		Ce40	140	58	2.83e-09
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	2.01e-10
Te22	122	52	4.98e-10		Ce43	143	58	0.00e+00
Te23	123	52	1.77e-10		Ce44	144	58	0.00e+00
Te24	124	52	9.52e-10		Pr41	141	59	3.60e-10
Te25	125	52	6.51e-10		Pr42	142	59	0.00e+00
Te26	126	52	2.31e-09		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	2.08e-09		Nd42	142	60	6.27e-10
Te30	130	52	2.12e-09		Nd43	143	60	1.87e-10
I127	127	53	1.42e-09		Nd44	144	60	4.13e-10
I128	128	53	0.00e+00		Nd45	145	60	1.23e-10
I129	129	53	2.28e-12		Nd46	146	60	3.24e-10
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	7.50e-11
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	7.02e-11
Xe28	128	54	5.08e-10		Pm45	145	61	0.00e+00
Xe29	129	54	2.05e-09		Pm46	146	61	0.00e+00
Xe30	130	54	1.04e-09		Pm47	147	61	0.00e+00
Xe31	131	54	1.74e-09		Pm48	148	61	0.00e+00
Xe32	132	54	3.22e-09		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	7.73e-10		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	1.14e-11
Xe36	136	54	5.82e-10		Sm45	145	62	0.00e+00
Cs33	133	55	6.61e-10		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	6.90e-11
Cs35	135	55	6.65e-11		Sm48	148	62	8.04e-11
Cs36	136	55	0.00e+00		Sm49	149	62	5.82e-11
Cs37	137	55	0.00e+00		Sm50	150	62	5.16e-11
Ba34	134	56	5.95e-10		Sm51	151	62	0.00e+00
Ba35	135	56	5.60e-10		Sm52	152	62	1.23e-10
Ba36	136	56	1.68e-09		Sm53	153	62	0.00e+00
Ba37	137	56	1.64e-09		Sm54	154	62	9.19e-11
Ba38	138	56	1.06e-08		Eu51	151	63	7.21e-11
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	7.95e-11
La39	139	57	1.27e-09		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00

Eu56	156	63	0.00e+00
Eu57	157	63	0.00e+00
Gd52	152	64	1.46e-12
Gd53	153	64	0.00e+00
Gd54	154	64	1.71e-11
Gd55	155	64	7.99e-11
Gd56	156	64	1.20e-10
Gd57	157	64	8.83e-11
Gd58	158	64	1.59e-10
Gd59	159	64	0.00e+00
Gd60	160	64	1.17e-10
Tb59	159	65	1.00e-10
Tb60	160	65	0.00e+00
Tb61	161	65	0.00e+00
Dy60	160	66	2.45e-11
Dy61	161	66	1.23e-10
Dy62	162	66	1.82e-10
Dy63	163	66	1.65e-10
Dy64	164	66	2.17e-10
Dy65	165	66	0.00e+00
Dy66	166	66	0.00e+00
Ho63	163	67	0.00e+00
Ho64	164	67	0.00e+00
Ho65	165	67	1.56e-10
Ho66	166	67	0.00e+00
Er64	164	68	9.94e-12
Er65	165	68	0.00e+00
Er66	166	68	1.59e-10
Er67	167	68	1.06e-10
Er68	168	68	1.45e-10
Er69	169	68	0.00e+00
Er70	170	68	6.81e-11
Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	7.01e-11
Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00
Tm73	173	69	0.00e+00
Yb70	170	70	2.25e-11
Yb71	171	70	7.10e-11

Yb72	172	70	1.23e-10
Yb73	173	70	8.32e-11
Yb74	174	70	1.99e-10
Yb75	175	70	0.00e+00
Yb76	176	70	5.85e-11
Yb77	177	70	0.00e+00
Lu75	175	71	6.86e-11
Lu76	176	71	2.76e-12
Lu77	177	71	0.00e+00
Hf76	176	72	2.67e-11
Hf77	177	72	6.22e-11
Hf78	178	72	1.12e-10
Hf79	179	72	5.14e-11
Hf80	180	72	1.62e-10
Hf81	181	72	0.00e+00
Hf82	182	72	8.23e-13
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00
Ta81	181	73	4.88e-11
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	2.78e-13
W181	181	74	0.00e+00
W182	182	74	8.75e-11
W183	183	74	4.88e-11
W184	184	74	1.11e-10
W185	185	74	0.00e+00
W186	186	74	7.66e-11
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	4.35e-11
Re86	186	75	0.00e+00
Re87	187	75	4.38e-11
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	3.56e-11
Os87	187	76	4.52e-11
Os88	188	76	1.89e-10

Isotope	A	Z	YIELD
Os89	189	76	2.12e-10
Os90	190	76	3.65e-10
Os91	191	76	0.00e+00
Os92	192	76	5.35e-10
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	4.65e-10
Ir92	192	77	0.00e+00
Ir93	193	77	7.89e-10
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	3.20e-11
Pt93	193	78	0.00e+00
Pt94	194	78	9.01e-10
Pt95	195	78	9.05e-10
Pt96	196	78	7.26e-10
Pt97	197	78	0.00e+00
Pt98	198	78	1.93e-10
Au97	197	79	3.99e-10
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.27e-10
Hg99	199	80	1.59e-10
Hg00	200	80	2.52e-10
Hg01	201	80	1.34e-10
Hg02	202	80	3.44e-10
Hg03	203	80	0.00e+00
Hg04	204	80	5.91e-11
Tl03	203	81	1.52e-10
Tl04	204	81	0.00e+00
Tl05	205	81	3.65e-10
Pb04	204	82	1.93e-10
Pb05	205	82	5.31e-12
Pb06	206	82	1.53e-09
Pb07	207	82	1.63e-09
Pb08	208	82	4.19e-09
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	2.93e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 1.50; Z = 0.008000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	6.05e-01
He4	4	2	2.51e-01
C12	12	6	2.76e-03
C13	13	6	3.46e-05
C14	14	6	3.03e-11
N14	14	7	8.09e-04
N15	15	7	8.26e-07
O16	16	8	3.08e-03
O17	17	8	5.08e-06
O18	18	8	5.17e-06
F18	18	9	0.00e+00
F19	19	9	3.34e-07
Ne20	20	10	5.36e-04
Ne21	21	10	1.38e-06
Ne22	22	10	1.49e-04
Na22	22	11	0.00e+00
Na23	23	11	2.09e-05
Na24	24	11	0.00e+00
Mg24	24	12	2.70e-04
Mg25	25	12	3.52e-05
Mg26	26	12	4.06e-05
Al26	26	13	7.79e-08
Al27	27	13	3.06e-05
Si28	28	14	3.49e-04
Si29	29	14	1.83e-05
Si30	30	14	1.26e-05
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	3.31e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	1.83e-04
S33	33	16	1.50e-06
S34	34	16	8.69e-06

S35	35	16	0.00e+00		Cr53	53	24	8.94e-07
S36	36	16	4.03e-08		Cr54	54	24	2.36e-07
Cl35	35	17	1.88e-06		Mn55	55	25	6.79e-06
Cl36	36	17	1.63e-10		Mn56	56	25	0.00e+00
Cl37	37	17	6.62e-07		Fe54	54	26	3.70e-05
Ar36	36	18	4.20e-05		Fe55	55	26	1.57e-13
Ar37	37	18	0.00e+00		Fe56	56	26	6.03e-04
Ar38	38	18	8.10e-06		Fe57	57	26	1.45e-05
Ar39	39	18	5.87e-13		Fe58	58	26	2.27e-06
Ar40	40	18	1.63e-08		Fe59	59	26	0.00e+00
Ar41	41	18	0.00e+00		Fe60	60	26	8.21e-09
Ar42	42	18	0.00e+00		Co59	59	27	1.86e-06
K39	39	19	1.75e-06		Co60	60	27	0.00e+00
K40	40	19	1.93e-09		Ni58	58	28	2.54e-05
K41	41	19	1.38e-07		Ni59	59	28	1.55e-09
K42	42	19	0.00e+00		Ni60	60	28	1.02e-05
K43	43	19	0.00e+00		Ni61	61	28	4.72e-07
Ca40	40	20	3.15e-05		Ni62	62	28	1.49e-06
Ca41	41	20	3.14e-10		Ni63	63	28	1.53e-13
Ca42	42	20	2.25e-07		Ni64	64	28	4.08e-07
Ca43	43	20	4.79e-08		Ni65	65	28	0.00e+00
Ca44	44	20	7.49e-07		Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00		Cu63	63	29	3.27e-07
Ca46	46	20	1.69e-09		Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00		Cu65	65	29	1.50e-07
Ca48	48	20	7.30e-08		Cu66	66	29	0.00e+00
Sc45	45	21	2.13e-08		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	5.30e-07
Sc47	47	21	0.00e+00		Zn65	65	30	0.00e+00
Sc48	48	21	0.00e+00		Zn66	66	30	3.19e-07
Sc49	49	21	0.00e+00		Zn67	67	30	4.82e-08
Ti46	46	22	1.24e-07		Zn68	68	30	2.25e-07
Ti47	47	22	1.13e-07		Zn69	69	30	0.00e+00
Ti48	48	22	1.14e-06		Zn70	70	30	7.36e-09
Ti49	49	22	8.92e-08		Ga69	69	31	2.20e-08
Ti50	50	22	9.26e-08		Ga70	70	31	0.00e+00
V50	50	23	4.84e-10		Ga71	71	31	1.56e-08
V51	51	23	1.98e-07		Ga72	72	31	0.00e+00
Cr50	50	24	3.85e-07		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	2.71e-08
Cr52	52	24	7.75e-06		Ge71	71	32	0.00e+00

Ge72	72	32	3.55e-08		Sr92	92	38	0.00e+00
Ge73	73	32	1.00e-08		Y89	89	39	1.96e-08
Ge74	74	32	4.95e-08		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	9.16e-09		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	6.73e-09		Zr90	90	40	2.44e-08
As76	76	33	0.00e+00		Zr91	91	40	5.66e-09
As77	77	33	0.00e+00		Zr92	92	40	9.31e-09
Se76	76	34	8.04e-09		Zr93	93	40	2.07e-09
Se77	77	34	5.95e-09		Zr94	94	40	1.32e-08
Se78	78	34	2.12e-08		Zr95	95	40	0.00e+00
Se79	79	34	2.35e-10		Zr96	96	40	1.54e-09
Se80	80	34	4.14e-08		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	1.45e-09
Se82	82	34	6.15e-09		Nb94	94	41	0.00e+00
Br79	79	35	6.61e-09		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	7.21e-09		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	5.17e-10
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	3.98e-10
Kr80	80	36	1.77e-09		Mo95	95	42	1.70e-09
Kr81	81	36	6.07e-11		Mo96	96	42	2.90e-09
Kr82	82	36	1.02e-08		Mo97	97	42	1.15e-09
Kr83	83	36	8.14e-09		Mo98	98	42	3.64e-09
Kr84	84	36	4.22e-08		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	4.16e-10
Kr86	86	36	1.34e-08		Tc97	97	43	0.00e+00
Kr87	87	36	0.00e+00		Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00		Tc99	99	43	1.03e-10
Rb85	85	37	6.77e-09		Ru96	96	44	1.30e-10
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	2.93e-09		Ru98	98	44	4.48e-11
Rb88	88	37	0.00e+00		Ru99	99	44	5.76e-10
Sr86	86	38	6.07e-09		Ru00	100	44	1.66e-09
Sr87	87	38	4.12e-09		Ru01	101	44	7.18e-10
Sr88	88	38	8.64e-08		Ru02	102	44	2.65e-09
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	5.13e-10
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00

Ru06	106	44	0.00e+00		Te23	123	52	4.80e-10
Rh03	103	45	8.37e-10		Te24	124	52	2.61e-09
Rh05	105	45	0.00e+00		Te25	125	52	1.32e-09
Pd04	104	46	1.28e-09		Te26	126	52	5.67e-09
Pd05	105	46	7.38e-10		Te27	127	52	0.00e+00
Pd06	106	46	1.84e-09		Te28	128	52	3.17e-09
Pd07	107	46	2.42e-10		Te30	130	52	2.83e-09
Pd08	108	46	2.18e-09		I127	127	53	2.25e-09
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	2.78e-10		I129	129	53	8.61e-12
Ag07	107	47	3.76e-10		I130	130	53	0.00e+00
Ag09	109	47	8.15e-10		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	2.65e-11		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	1.50e-09
Cd10	110	48	1.66e-09		Xe29	129	54	3.10e-09
Cd11	111	48	7.72e-10		Xe30	130	54	3.26e-09
Cd12	112	48	2.33e-09		Xe31	131	54	2.85e-09
Cd13	113	48	8.15e-10		Xe32	132	54	8.17e-09
Cd14	114	48	3.30e-09		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	1.24e-09
Cd16	116	48	3.05e-10		Xe35	135	54	0.00e+00
In13	113	49	1.18e-11		Xe36	136	54	7.77e-10
In15	115	49	7.85e-10		Cs33	133	55	1.40e-09
Sn14	114	50	3.76e-11		Cs34	134	55	0.00e+00
Sn15	115	50	1.95e-11		Cs35	135	55	2.49e-10
Sn16	116	50	4.52e-09		Cs36	136	55	0.00e+00
Sn17	117	50	1.59e-09		Cs37	137	55	0.00e+00
Sn18	118	50	6.55e-09		Ba34	134	56	2.27e-09
Sn19	119	50	2.12e-09		Ba35	135	56	1.29e-09
Sn20	120	50	1.05e-08		Ba36	136	56	6.29e-09
Sn21	121	50	0.00e+00		Ba37	137	56	5.92e-09
Sn22	122	50	5.48e-10		Ba38	138	56	5.97e-08
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00
Sn24	124	50	3.63e-10		Ba40	140	56	0.00e+00
Sb21	121	51	9.61e-10		La39	139	57	7.01e-09
Sb22	122	51	0.00e+00		La40	140	57	0.00e+00
Sb23	123	51	2.90e-10		Ce40	140	58	1.96e-08
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	5.12e-10
Te22	122	52	1.33e-09		Ce43	143	58	0.00e+00

Ce44	144	58	0.00e+00		Gd54	154	64	1.02e-10
Pr41	141	59	1.77e-09		Gd55	155	64	1.63e-10
Pr42	142	59	0.00e+00		Gd56	156	64	3.73e-10
Pr43	143	59	0.00e+00		Gd57	157	64	2.20e-10
Pr45	145	59	0.00e+00		Gd58	158	64	6.29e-10
Nd42	142	60	4.65e-09		Gd59	159	64	0.00e+00
Nd43	143	60	7.72e-10		Gd60	160	64	1.70e-10
Nd44	144	60	2.23e-09		Tb59	159	65	2.31e-10
Nd45	145	60	4.64e-10		Tb60	160	65	0.00e+00
Nd46	146	60	2.06e-09		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	1.83e-10
Nd48	148	60	1.61e-10		Dy61	161	66	2.35e-10
Nd49	149	60	0.00e+00		Dy62	162	66	5.56e-10
Nd50	150	60	9.46e-11		Dy63	163	66	3.26e-10
Pm45	145	61	0.00e+00		Dy64	164	66	8.53e-10
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	3.95e-13
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	3.35e-10
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	1.53e-11		Er64	164	68	5.50e-11
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	4.49e-10
Sm47	147	62	2.63e-10		Er67	167	68	2.47e-10
Sm48	148	62	6.41e-10		Er68	168	68	6.13e-10
Sm49	149	62	1.53e-10		Er69	169	68	0.00e+00
Sm50	150	62	3.94e-10		Er70	170	68	1.25e-10
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	4.06e-10		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	1.70e-10
Sm54	154	62	1.43e-10		Tm70	170	69	0.00e+00
Eu51	151	63	1.42e-10		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00
Eu53	153	63	1.54e-10		Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00		Yb70	170	70	1.76e-10
Eu55	155	63	0.00e+00		Yb71	171	70	2.39e-10
Eu56	156	63	0.00e+00		Yb72	172	70	5.97e-10
Eu57	157	63	0.00e+00		Yb73	173	70	3.08e-10
Gd52	152	64	1.00e-11		Yb74	174	70	1.18e-09
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00

Yb76	176	70	1.12e-10		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	2.15e-10		Ir91	191	77	7.14e-10
Lu76	176	71	2.53e-11		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	1.16e-09
Hf76	176	72	2.03e-10		Ir94	194	77	0.00e+00
Hf77	177	72	1.82e-10		Ir95	195	77	0.00e+00
Hf78	178	72	6.07e-10		Pt92	192	78	2.38e-10
Hf79	179	72	2.24e-10		Pt93	193	78	0.00e+00
Hf80	180	72	1.08e-09		Pt94	194	78	1.72e-09
Hf81	181	72	0.00e+00		Pt95	195	78	1.41e-09
Hf82	182	72	2.01e-11		Pt96	196	78	1.64e-09
Hf83	183	72	0.00e+00		Pt97	197	78	0.00e+00
Hf84	184	72	0.00e+00		Pt98	198	78	2.65e-10
Ta79	179	73	0.00e+00		Au97	197	79	7.24e-10
Ta80	180	73	0.00e+00		Au98	198	79	0.00e+00
Ta81	181	73	2.34e-10		Au99	199	79	0.00e+00
Ta82	182	73	0.00e+00		Hg98	198	80	7.94e-10
Ta83	183	73	0.00e+00		Hg99	199	80	4.85e-10
Ta84	184	73	0.00e+00		Hg00	200	80	1.28e-09
W180	180	74	3.72e-13		Hg01	201	80	5.64e-10
W181	181	74	0.00e+00		Hg02	202	80	2.17e-09
W182	182	74	5.64e-10		Hg03	203	80	0.00e+00
W183	183	74	3.18e-10		Hg04	204	80	8.59e-11
W184	184	74	7.36e-10		Tl03	203	81	8.90e-10
W185	185	74	0.00e+00		Tl04	204	81	0.00e+00
W186	186	74	1.83e-10		Tl05	205	81	2.20e-09
W187	187	74	0.00e+00		Pb04	204	82	1.18e-09
W188	188	74	0.00e+00		Pb05	205	82	9.95e-11
Re85	185	75	1.64e-10		Pb06	206	82	8.04e-09
Re86	186	75	0.00e+00		Pb07	207	82	6.68e-09
Re87	187	75	8.17e-11		Pb08	208	82	1.34e-08
Re88	188	75	0.00e+00		Pb09	209	82	0.00e+00
Re89	189	75	0.00e+00		Pb10	210	82	0.00e+00
Os86	186	76	3.19e-10		Bi09	209	83	4.20e-10
Os87	187	76	1.47e-10		Bi10	210	83	0.00e+00
Os88	188	76	7.26e-10		Po10	210	84	0.00e+00
Os89	189	76	3.81e-10					
Os90	190	76	9.74e-10					
Os91	191	76	0.00e+00					
Os92	192	76	7.87e-10					

Model Parameters: (M_o = 1.50; Z = 0.010000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [M_o]
H	1	1	6.22e-01
He4	4	2	2.58e-01
C12	12	6	3.10e-03
C13	13	6	4.42e-05
C14	14	6	2.65e-11
N14	14	7	1.01e-03
N15	15	7	1.10e-06
O16	16	8	3.95e-03
O17	17	8	5.61e-06
O18	18	8	6.76e-06
F18	18	9	0.00e+00
F19	19	9	4.06e-07
Ne20	20	10	6.90e-04
Ne21	21	10	1.77e-06
Ne22	22	10	1.80e-04
Na22	22	11	0.00e+00
Na23	23	11	2.64e-05
Na24	24	11	0.00e+00
Mg24	24	12	3.46e-04
Mg25	25	12	4.53e-05
Mg26	26	12	5.23e-05
Al26	26	13	9.63e-08
Al27	27	13	3.93e-05
Si28	28	14	4.49e-04
Si29	29	14	2.36e-05
Si30	30	14	1.62e-05
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	4.26e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	2.36e-04
S33	33	16	1.93e-06
S34	34	16	1.12e-05
S35	35	16	0.00e+00
S36	36	16	5.29e-08
Cl35	35	17	2.41e-06
Cl36	36	17	3.39e-10
Cl37	37	17	8.52e-07
Ar36	36	18	5.40e-05
Ar37	37	18	0.00e+00
Ar38	38	18	1.04e-05
Ar39	39	18	5.23e-13
Ar40	40	18	2.22e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	2.25e-06
K40	40	19	2.58e-09
K41	41	19	1.77e-07
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	4.05e-05
Ca41	41	20	7.13e-10
Ca42	42	20	2.91e-07
Ca43	43	20	6.20e-08
Ca44	44	20	9.65e-07
Ca45	45	20	0.00e+00
Ca46	46	20	2.45e-09
Ca47	47	20	0.00e+00
Ca48	48	20	9.39e-08
Sc45	45	21	2.75e-08
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	1.59e-07
Ti47	47	22	1.45e-07
Ti48	48	22	1.47e-06
Ti49	49	22	1.14e-07
Ti50	50	22	1.19e-07
V50	50	23	6.22e-10
V51	51	23	2.54e-07
Cr50	50	24	4.95e-07
Cr51	51	24	0.00e+00
Cr52	52	24	9.96e-06
Cr53	53	24	1.15e-06
Cr54	54	24	3.06e-07
Mn55	55	25	8.72e-06
Mn56	56	25	0.00e+00

Fe54	54	26	4.75e-05
Fe55	55	26	0.00e+00
Fe56	56	26	7.76e-04
Fe57	57	26	1.86e-05
Fe58	58	26	3.08e-06
Fe59	59	26	0.00e+00
Fe60	60	26	3.22e-08
Co59	59	27	2.44e-06
Co60	60	27	0.00e+00
Ni58	58	28	3.27e-05
Ni59	59	28	3.40e-09
Ni60	60	28	1.31e-05
Ni61	61	28	6.18e-07
Ni62	62	28	1.93e-06
Ni63	63	28	1.18e-13
Ni64	64	28	5.45e-07
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	4.34e-07
Cu64	64	29	0.00e+00
Cu65	65	29	1.98e-07
Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	6.85e-07
Zn65	65	30	0.00e+00
Zn66	66	30	4.13e-07
Zn67	67	30	6.24e-08
Zn68	68	30	2.93e-07
Zn69	69	30	0.00e+00
Zn70	70	30	9.47e-09
Ga69	69	31	2.88e-08
Ga70	70	31	0.00e+00
Ga71	71	31	2.06e-08
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	3.57e-08
Ge71	71	32	0.00e+00
Ge72	72	32	4.66e-08
Ge73	73	32	1.32e-08
Ge74	74	32	6.55e-08
Ge75	75	32	0.00e+00

Ge76	76	32	1.18e-08
Ge77	77	32	0.00e+00
As75	75	33	8.84e-09
As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	1.08e-08
Se77	77	34	7.84e-09
Se78	78	34	2.85e-08
Se79	79	34	4.84e-10
Se80	80	34	5.51e-08
Se81	81	34	0.00e+00
Se82	82	34	7.92e-09
Br79	79	35	8.57e-09
Br80	80	35	0.00e+00
Br81	81	35	9.54e-09
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	2.35e-09
Kr81	81	36	1.29e-10
Kr82	82	36	1.39e-08
Kr83	83	36	1.08e-08
Kr84	84	36	5.65e-08
Kr85	85	36	0.00e+00
Kr86	86	36	1.89e-08
Kr87	87	36	0.00e+00
Kr88	88	36	0.00e+00
Rb85	85	37	9.26e-09
Rb86	86	37	0.00e+00
Rb87	87	37	4.73e-09
Rb88	88	37	0.00e+00
Sr86	86	38	8.72e-09
Sr87	87	38	5.85e-09
Sr88	88	38	1.20e-07
Sr89	89	38	0.00e+00
Sr90	90	38	0.00e+00
Sr91	91	38	0.00e+00
Sr92	92	38	0.00e+00
Y89	89	39	2.73e-08
Y90	90	39	0.00e+00
Y91	91	39	0.00e+00

Y92	92	39	0.00e+00		Pd05	105	46	9.37e-10
Y93	93	39	0.00e+00		Pd06	106	46	2.27e-09
Zr90	90	40	3.29e-08		Pd07	107	46	2.98e-10
Zr91	91	40	7.58e-09		Pd08	108	46	2.65e-09
Zr92	92	40	1.24e-08		Pd09	109	46	0.00e+00
Zr93	93	40	3.01e-09		Pd10	110	46	3.49e-10
Zr94	94	40	1.72e-08		Ag07	107	47	4.77e-10
Zr95	95	40	0.00e+00		Ag09	109	47	1.00e-09
Zr96	96	40	2.24e-09		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	3.31e-11
Nb93	93	41	1.68e-09		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	2.00e-09
Nb95	95	41	0.00e+00		Cd11	111	48	9.47e-10
Nb96	96	41	0.00e+00		Cd12	112	48	2.80e-09
Nb97	97	41	0.00e+00		Cd13	113	48	9.94e-10
Mo92	92	42	6.65e-10		Cd14	114	48	3.94e-09
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	5.02e-10		Cd16	116	48	3.50e-10
Mo95	95	42	2.21e-09		In13	113	49	1.52e-11
Mo96	96	42	3.70e-09		In15	115	49	9.51e-10
Mo97	97	42	1.49e-09		Sn14	114	50	4.83e-11
Mo98	98	42	4.79e-09		Sn15	115	50	2.51e-11
Mo99	99	42	0.00e+00		Sn16	116	50	5.38e-09
Mo00	100	42	5.25e-10		Sn17	117	50	1.91e-09
Tc97	97	43	1.13e-13		Sn18	118	50	7.71e-09
Tc98	98	43	0.00e+00		Sn19	119	50	2.50e-09
Tc99	99	43	2.08e-10		Sn20	120	50	1.21e-08
Ru96	96	44	1.67e-10		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	6.20e-10
Ru98	98	44	5.76e-11		Sn23	123	50	0.00e+00
Ru99	99	44	6.83e-10		Sn24	124	50	4.70e-10
Ru00	100	44	2.18e-09		Sb21	121	51	1.13e-09
Ru01	101	44	9.33e-10		Sb22	122	51	0.00e+00
Ru02	102	44	3.37e-09		Sb23	123	51	3.62e-10
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	6.52e-10		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	1.52e-09
Ru06	106	44	0.00e+00		Te23	123	52	5.49e-10
Rh03	103	45	1.07e-09		Te24	124	52	2.96e-09
Rh05	105	45	0.00e+00		Te25	125	52	1.58e-09
Pd04	104	46	1.61e-09		Te26	126	52	6.58e-09

Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	3.95e-09		Nd42	142	60	3.69e-09
Te30	130	52	3.64e-09		Nd43	143	60	6.64e-10
I127	127	53	2.80e-09		Nd44	144	60	1.81e-09
I128	128	53	0.00e+00		Nd45	145	60	4.05e-10
I129	129	53	7.30e-12		Nd46	146	60	1.61e-09
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	1.64e-10
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	1.21e-10
Xe28	128	54	1.70e-09		Pm45	145	61	0.00e+00
Xe29	129	54	3.89e-09		Pm46	146	61	0.00e+00
Xe30	130	54	3.62e-09		Pm47	147	61	0.00e+00
Xe31	131	54	3.50e-09		Pm48	148	61	0.00e+00
Xe32	132	54	9.19e-09		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	1.43e-09		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	1.97e-11
Xe36	136	54	1.00e-09		Sm45	145	62	0.00e+00
Cs33	133	55	1.62e-09		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	2.25e-10
Cs35	135	55	2.97e-10		Sm48	148	62	4.77e-10
Cs36	136	55	0.00e+00		Sm49	149	62	1.47e-10
Cs37	137	55	0.00e+00		Sm50	150	62	2.90e-10
Ba34	134	56	2.39e-09		Sm51	151	62	0.00e+00
Ba35	135	56	1.44e-09		Sm52	152	62	3.54e-10
Ba36	136	56	6.76e-09		Sm53	153	62	0.00e+00
Ba37	137	56	6.11e-09		Sm54	154	62	1.71e-10
Ba38	138	56	5.35e-08		Eu51	151	63	1.52e-10
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	1.66e-10
La39	139	57	6.17e-09		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	1.60e-08		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	4.04e-10		Gd52	152	64	9.42e-12
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	8.25e-11
Pr41	141	59	1.49e-09		Gd55	155	64	1.73e-10
Pr42	142	59	0.00e+00		Gd56	156	64	3.46e-10
Pr43	143	59	0.00e+00		Gd57	157	64	2.18e-10

Gd58	158	64	5.33e-10		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	6.53e-11
Gd60	160	64	2.09e-10		Hf77	177	72	1.65e-10
Tb59	159	65	2.32e-10		Hf78	178	72	4.57e-10
Tb60	160	65	0.00e+00		Hf79	179	72	1.80e-10
Tb61	161	65	0.00e+00		Hf80	180	72	8.00e-10
Dy60	160	66	1.35e-10		Hf81	181	72	0.00e+00
Dy61	161	66	2.55e-10		Hf82	182	72	9.17e-12
Dy62	162	66	5.02e-10		Hf83	183	72	0.00e+00
Dy63	163	66	3.48e-10		Hf84	184	72	0.00e+00
Dy64	164	66	7.24e-10		Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00		Ta80	180	73	0.00e+00
Dy66	166	66	0.00e+00		Ta81	181	73	1.85e-10
Ho63	163	67	1.92e-13		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta93	183	73	0.00e+00
Ho65	165	67	3.46e-10		Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00		W180	180	74	4.79e-13
Er64	164	68	4.12e-11		W181	181	74	0.00e+00
Er65	165	68	0.00e+00		W182	182	74	4.21e-10
Er66	166	68	4.24e-10		W183	183	74	2.29e-10
Er67	167	68	2.47e-10		W184	184	74	5.25e-10
Er68	168	68	5.05e-10		W185	185	74	0.00e+00
Er69	169	68	0.00e+00		W186	186	74	1.85e-10
Er70	170	68	1.41e-10		W187	187	74	0.00e+00
Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	1.34e-10
Tm69	169	69	1.65e-10		Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00		Re87	187	75	8.86e-11
Tm71	171	69	0.00e+00		Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00		Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00		Os86	186	76	2.25e-10
Yb70	170	70	1.33e-10		Os87	187	76	1.32e-10
Yb71	171	70	2.12e-10		Os88	188	76	6.14e-10
Yb72	172	70	4.87e-10		Os89	189	76	4.23e-10
Yb73	173	70	2.66e-10		Os90	190	76	9.11e-10
Yb74	174	70	9.09e-10		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	9.69e-10
Yb76	176	70	1.17e-10		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	1.93e-10		Ir91	191	77	8.54e-10
Lu76	176	71	4.98e-11		Ir92	192	77	0.00e+00

Isotope	A	Z	YIELD
Ir93	193	77	1.42e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	1.73e-10
Pt93	193	78	0.00e+00
Pt94	194	78	1.83e-09
Pt95	195	78	1.66e-09
Pt96	196	78	1.61e-09
Pt97	197	78	0.00e+00
Pt98	198	78	3.35e-10
Au97	197	79	7.91e-10
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	5.73e-10
Hg99	199	80	4.28e-10
Hg00	200	80	9.78e-10
Hg01	201	80	4.48e-10
Hg02	202	80	1.54e-09
Hg03	203	80	0.00e+00
Hg04	204	80	1.03e-10
Tl03	203	81	6.31e-10
Tl04	204	81	0.00e+00
Tl05	205	81	1.55e-09
Pb04	204	82	8.13e-10
Pb05	205	82	5.04e-11
Pb06	206	82	5.75e-09
Pb07	207	82	5.17e-09
Pb08	208	82	1.16e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	5.18e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M_α = 1.50; Z = 0.010000; IRV = 60 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [M_α]

H	1	1	6.10e-01
He4	4	2	2.54e-01
C12	12	6	3.32e-03
C13	13	6	4.31e-05
C14	14	6	4.43e-11
N14	14	7	9.83e-04
N15	15	7	1.10e-06
O16	16	8	3.88e-03
O17	17	8	5.34e-06
O18	18	8	6.67e-06
F18	18	9	0.00e+00
F19	19	9	5.57e-07
Ne20	20	10	6.77e-04
Ne21	21	10	1.73e-06
Ne22	22	10	2.05e-04
Na22	22	11	0.00e+00
Na23	23	11	2.63e-05
Na24	24	11	0.00e+00
Mg24	24	12	3.41e-04
Mg25	25	12	4.46e-05
Mg26	26	12	5.16e-05
Al26	26	13	9.92e-08
Al27	27	13	3.86e-05
Si28	28	14	4.41e-04
Si29	29	14	2.32e-05
Si30	30	14	1.60e-05
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	4.18e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	2.32e-04
S33	33	16	1.90e-06
S34	34	16	1.10e-05
S35	35	16	0.00e+00
S36	36	16	5.30e-08
Cl35	35	17	2.37e-06
Cl36	36	17	3.03e-10
Cl37	37	17	8.82e-07
Ar36	36	18	5.30e-05
Ar37	37	18	0.00e+00

Ar38	38	18	1.03e-05		Fe57	57	26	1.83e-05
Ar39	39	18	8.24e-13		Fe58	58	26	3.20e-06
Ar40	40	18	2.10e-08		Fe59	59	26	0.00e+00
Ar41	41	18	0.00e+00		Fe60	60	26	1.33e-08
Ar42	42	18	0.00e+00		Co59	59	27	2.43e-06
K39	39	19	2.21e-06		Co60	60	27	0.00e+00
K40	40	19	3.43e-09		Ni58	58	28	3.21e-05
K41	41	19	1.77e-07		Ni59	59	28	3.00e-09
K42	42	19	0.00e+00		Ni60	60	28	1.30e-05
K43	43	19	0.00e+00		Ni61	61	28	6.28e-07
Ca40	40	20	3.98e-05		Ni62	62	28	1.97e-06
Ca41	41	20	6.90e-10		Ni63	63	28	3.93e-13
Ca42	42	20	2.88e-07		Ni64	64	28	5.81e-07
Ca43	43	20	6.13e-08		Ni65	65	28	0.00e+00
Ca44	44	20	9.48e-07		Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00		Cu63	63	29	4.38e-07
Ca46	46	20	2.14e-09		Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00		Cu65	65	29	2.12e-07
Ca48	48	20	9.22e-08		Cu66	66	29	0.00e+00
Sc45	45	21	2.70e-08		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	6.85e-07
Sc47	47	21	0.00e+00		Zn65	65	30	0.00e+00
Sc48	48	21	0.00e+00		Zn66	66	30	4.29e-07
Sc49	49	21	0.00e+00		Zn67	67	30	6.64e-08
Ti46	46	22	1.57e-07		Zn68	68	30	3.12e-07
Ti47	47	22	1.43e-07		Zn69	69	30	0.00e+00
Ti48	48	22	1.44e-06		Zn70	70	30	9.29e-09
Ti49	49	22	1.13e-07		Ga69	69	31	3.25e-08
Ti50	50	22	1.13e-07		Ga70	70	31	0.00e+00
V50	50	23	6.11e-10		Ga71	71	31	2.44e-08
V51	51	23	2.50e-07		Ga72	72	31	0.00e+00
Cr50	50	24	4.86e-07		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	4.20e-08
Cr52	52	24	9.78e-06		Ge71	71	32	0.00e+00
Cr53	53	24	1.13e-06		Ge72	72	32	5.25e-08
Cr54	54	24	3.03e-07		Ge73	73	32	1.47e-08
Mn55	55	25	8.56e-06		Ge74	74	32	6.89e-08
Mn56	56	25	0.00e+00		Ge75	75	32	0.00e+00
Fe54	54	26	4.66e-05		Ge76	76	32	1.16e-08
Fe55	55	26	3.37e-13		Ge77	77	32	0.00e+00
Fe56	56	26	7.62e-04		As75	75	33	8.98e-09

As76	76	33	0.00e+00		Zr91	91	40	3.09e-09
As77	77	33	0.00e+00		Zr92	92	40	4.71e-09
Se76	76	34	1.31e-08		Zr93	93	40	4.41e-10
Se77	77	34	8.67e-09		Zr94	94	40	4.88e-09
Se78	78	34	2.82e-08		Zr95	95	40	0.00e+00
Se79	79	34	9.66e-10		Zr96	96	40	6.56e-10
Se80	80	34	5.84e-08		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	1.28e-09
Se82	82	34	7.76e-09		Nb94	94	41	0.00e+00
Br79	79	35	8.84e-09		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	9.78e-09		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	6.52e-10
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	4.34e-10
Kr80	80	36	2.84e-09		Mo95	95	42	8.84e-10
Kr81	81	36	2.09e-10		Mo96	96	42	1.10e-09
Kr82	82	36	1.61e-08		Mo97	97	42	5.58e-10
Kr83	83	36	1.13e-08		Mo98	98	42	1.52e-09
Kr84	84	36	5.79e-08		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	4.64e-10
Kr86	86	36	1.63e-08		Tc97	97	43	1.25e-13
Kr87	87	36	0.00e+00		Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00		Tc99	99	43	1.75e-11
Rb85	85	37	9.36e-09		Ru96	96	44	1.64e-10
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	3.57e-09		Ru98	98	44	5.65e-11
Rb88	88	37	0.00e+00		Ru99	99	44	4.23e-10
Sr86	86	38	9.19e-09		Ru00	100	44	5.71e-10
Sr87	87	38	5.98e-09		Ru01	101	44	5.70e-10
Sr88	88	38	6.38e-08		Ru02	102	44	1.18e-09
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	6.00e-10
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	1.31e-08		Rh03	103	45	6.72e-10
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	4.13e-10
Y92	92	39	0.00e+00		Pd05	105	46	6.11e-10
Y93	93	39	0.00e+00		Pd06	106	46	8.57e-10
Zr90	90	40	1.38e-08		Pd07	107	46	2.70e-11

Pd08	108	46	8.69e-10		I127	127	53	2.17e-09
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	3.09e-10		I129	129	53	5.50e-13
Ag07	107	47	4.60e-10		I130	130	53	0.00e+00
Ag09	109	47	4.77e-10		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	2.78e-11		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	3.21e-10
Cd10	110	48	5.02e-10		Xe29	129	54	3.24e-09
Cd11	111	48	4.25e-10		Xe30	130	54	6.45e-10
Cd12	112	48	8.82e-10		Xe31	131	54	2.63e-09
Cd13	113	48	4.16e-10		Xe32	132	54	3.38e-09
Cd14	114	48	1.10e-09		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	1.19e-09
Cd16	116	48	2.39e-10		Xe35	135	54	0.00e+00
In13	113	49	1.49e-11		Xe36	136	54	9.80e-10
In15	115	49	3.81e-10		Cs33	133	55	8.44e-10
Sn14	114	50	4.73e-11		Cs34	134	55	0.00e+00
Sn15	115	50	2.46e-11		Cs35	135	55	7.12e-12
Sn16	116	50	1.34e-09		Cs36	136	55	0.00e+00
Sn17	117	50	6.50e-10		Cs37	137	55	0.00e+00
Sn18	118	50	2.15e-09		Ba34	134	56	3.18e-10
Sn19	119	50	7.46e-10		Ba35	135	56	6.98e-10
Sn20	120	50	2.93e-09		Ba36	136	56	9.80e-10
Sn21	121	50	0.00e+00		Ba37	137	56	1.29e-09
Sn22	122	50	3.65e-10		Ba38	138	56	8.20e-09
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00
Sn24	124	50	4.53e-10		Ba40	140	56	0.00e+00
Sb21	121	51	4.23e-10		La39	139	57	1.10e-09
Sb22	122	51	0.00e+00		La40	140	57	0.00e+00
Sb23	123	51	2.97e-10		Ce40	140	58	2.60e-09
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	3.16e-10
Te22	122	52	3.17e-10		Ce43	143	58	0.00e+00
Te23	123	52	1.12e-10		Ce44	144	58	0.00e+00
Te24	124	52	5.95e-10		Pr41	141	59	4.25e-10
Te25	125	52	7.59e-10		Pr42	142	59	0.00e+00
Te26	126	52	2.12e-09		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	3.31e-09		Nd42	142	60	5.72e-10
Te30	130	52	3.58e-09		Nd43	143	60	2.49e-10

Nd44	144	60	4.96e-10		Tb59	159	65	1.59e-10
Nd45	145	60	1.72e-10		Tb60	160	65	0.00e+00
Nd46	146	60	3.64e-10		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	2.62e-11
Nd48	148	60	1.20e-10		Dy61	161	66	2.01e-10
Nd49	149	60	0.00e+00		Dy62	162	66	2.75e-10
Nd50	150	60	1.19e-10		Dy63	163	66	2.68e-10
Pm45	145	61	0.00e+00		Dy64	164	66	3.10e-10
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	0.00e+00
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	2.50e-10
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	1.93e-11		Er64	164	68	1.20e-11
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	2.45e-10
Sm47	147	62	9.69e-11		Er67	167	68	1.67e-10
Sm48	148	62	7.62e-11		Er68	168	68	2.00e-10
Sm49	149	62	8.99e-11		Er69	169	68	0.00e+00
Sm50	150	62	5.06e-11		Er70	170	68	1.11e-10
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	1.79e-10		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	1.07e-10
Sm54	154	62	1.53e-10		Tm70	170	69	0.00e+00
Eu51	151	63	1.17e-10		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00
Eu53	153	63	1.29e-10		Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00		Yb70	170	70	2.35e-11
Eu55	155	63	0.00e+00		Yb71	171	70	1.05e-10
Eu56	156	63	0.00e+00		Yb72	172	70	1.63e-10
Eu57	157	63	0.00e+00		Yb73	173	70	1.20e-10
Gd52	152	64	1.86e-12		Yb74	174	70	2.43e-10
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00
Gd54	154	64	1.97e-11		Yb76	176	70	9.59e-11
Gd55	155	64	1.29e-10		Yb77	177	70	0.00e+00
Gd56	156	64	1.81e-10		Lu75	175	71	1.03e-10
Gd57	157	64	1.39e-10		Lu76	176	71	2.35e-12
Gd58	158	64	2.24e-10		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	2.85e-11
Gd60	160	64	1.96e-10		Hf77	177	72	9.52e-11

Hf78	178	72	1.43e-10
Hf79	179	72	7.13e-11
Hf80	180	72	1.88e-10
Hf81	181	72	0.00e+00
Hf82	182	72	1.71e-13
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00
Ta81	181	73	6.52e-11
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	4.70e-13
W181	181	74	0.00e+00
W182	182	74	1.08e-10
W183	183	74	5.88e-11
W184	184	74	1.27e-10
W185	185	74	0.00e+00
W186	186	74	1.16e-10
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	6.21e-11
Re86	186	75	0.00e+00
Re87	187	75	6.87e-11
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	3.57e-11
Os87	187	76	7.11e-11
Os88	188	76	2.88e-10
Os89	189	76	3.50e-10
Os90	190	76	5.77e-10
Os91	191	76	0.00e+00
Os92	192	76	8.99e-10
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	7.78e-10
Ir92	192	77	0.00e+00
Ir93	193	77	1.32e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00

Pt92	192	78	3.76e-11
Pt93	193	78	0.00e+00
Pt94	194	78	1.47e-09
Pt95	195	78	1.51e-09
Pt96	196	78	1.15e-09
Pt97	197	78	0.00e+00
Pt98	198	78	3.25e-10
Au97	197	79	6.54e-10
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.50e-10
Hg99	199	80	2.41e-10
Hg00	200	80	3.37e-10
Hg01	201	80	1.91e-10
Hg02	202	80	4.41e-10
Hg03	203	80	0.00e+00
Hg04	204	80	9.94e-11
Tl03	203	81	1.95e-10
Tl04	204	81	0.00e+00
Tl05	205	81	4.69e-10
Pb04	204	82	2.30e-10
Pb05	205	82	7.78e-13
Pb06	206	82	2.15e-09
Pb07	207	82	2.37e-09
Pb08	208	82	6.77e-09
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	4.92e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 1.50; Z = 0.014000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	6.09e-01
He4	4	2	2.57e-01
C12	12	6	3.06e-03

C13	13	6	6.05e-05
C14	14	6	2.76e-11
N14	14	7	1.35e-03
N15	15	7	1.54e-06
O16	16	8	5.35e-03
O17	17	8	6.43e-06
O18	18	8	9.38e-06
F18	18	9	0.00e+00
F19	19	9	4.91e-07
Ne20	20	10	9.40e-04
Ne21	21	10	2.38e-06
Ne22	22	10	1.93e-04
Na22	22	11	0.00e+00
Na23	23	11	3.51e-05
Na24	24	11	0.00e+00
Mg24	24	12	4.71e-04
Mg25	25	12	6.17e-05
Mg26	26	12	7.13e-05
Al26	26	13	1.31e-07
Al27	27	13	5.34e-05
Si28	28	14	6.11e-04
Si29	29	14	3.22e-05
Si30	30	14	2.20e-05
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	5.75e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	3.21e-04
S33	33	16	2.63e-06
S34	34	16	1.52e-05
S35	35	16	0.00e+00
S36	36	16	6.89e-08
Cl35	35	17	3.29e-06
Cl36	36	17	3.82e-10
Cl37	37	17	1.15e-06
Ar36	36	18	7.37e-05
Ar37	37	18	0.00e+00
Ar38	38	18	1.42e-05
Ar39	39	18	6.39e-13
Ar40	40	18	2.71e-08

Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	3.06e-06
K40	40	19	2.79e-09
K41	41	19	2.40e-07
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	5.53e-05
Ca41	41	20	8.95e-10
Ca42	42	20	3.93e-07
Ca43	43	20	8.37e-08
Ca44	44	20	1.31e-06
Ca45	45	20	0.00e+00
Ca46	46	20	2.86e-09
Ca47	47	20	0.00e+00
Ca48	48	20	1.28e-07
Sc45	45	21	3.70e-08
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	2.17e-07
Ti47	47	22	1.98e-07
Ti48	48	22	2.00e-06
Ti49	49	22	1.55e-07
Ti50	50	22	1.55e-07
V50	50	23	8.49e-10
V51	51	23	3.47e-07
Cr50	50	24	6.75e-07
Cr51	51	24	0.00e+00
Cr52	52	24	1.36e-05
Cr53	53	24	1.57e-06
Cr54	54	24	4.10e-07
Mn55	55	25	1.19e-05
Mn56	56	25	0.00e+00
Fe54	54	26	6.49e-05
Fe55	55	26	2.59e-13
Fe56	56	26	1.06e-03
Fe57	57	26	2.53e-05
Fe58	58	26	3.85e-06
Fe59	59	26	0.00e+00

Fe60	60	26	8.31e-09
Co59	59	27	3.22e-06
Co60	60	27	0.00e+00
Ni58	58	28	4.46e-05
Ni59	59	28	4.18e-09
Ni60	60	28	1.79e-05
Ni61	61	28	8.18e-07
Ni62	62	28	2.60e-06
Ni63	63	28	1.46e-13
Ni64	64	28	7.07e-07
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	5.59e-07
Cu64	64	29	0.00e+00
Cu65	65	29	2.60e-07
Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	9.31e-07
Zn65	65	30	0.00e+00
Zn66	66	30	5.60e-07
Zn67	67	30	8.45e-08
Zn68	68	30	3.95e-07
Zn69	69	30	0.00e+00
Zn70	70	30	1.29e-08
Ga69	69	31	3.86e-08
Ga70	70	31	0.00e+00
Ga71	71	31	2.75e-08
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	4.76e-08
Ge71	71	32	0.00e+00
Ge72	72	32	6.24e-08
Ge73	73	32	1.76e-08
Ge74	74	32	8.38e-08
Ge75	75	32	0.00e+00
Ge76	76	32	1.61e-08
Ge77	77	32	0.00e+00
As75	75	33	1.14e-08
As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	1.43e-08

Se77	77	34	1.05e-08
Se78	78	34	3.38e-08
Se79	79	34	6.78e-10
Se80	80	34	7.33e-08
Se81	81	34	0.00e+00
Se82	82	34	1.08e-08
Br79	79	35	1.14e-08
Br80	80	35	0.00e+00
Br81	81	35	1.22e-08
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	3.11e-09
Kr81	81	36	1.49e-10
Kr82	82	36	1.80e-08
Kr83	83	36	1.43e-08
Kr84	84	36	7.45e-08
Kr85	85	36	0.00e+00
Kr86	86	36	2.24e-08
Kr87	87	36	0.00e+00
Kr88	88	36	0.00e+00
Rb85	85	37	1.19e-08
Rb86	86	37	0.00e+00
Rb87	87	37	5.05e-09
Rb88	88	37	0.00e+00
Sr86	86	38	1.09e-08
Sr87	87	38	7.46e-09
Sr88	88	38	1.34e-07
Sr89	89	38	0.00e+00
Sr90	90	38	0.00e+00
Sr91	91	38	0.00e+00
Sr92	92	38	0.00e+00
Y89	89	39	2.93e-08
Y90	90	39	0.00e+00
Y91	91	39	0.00e+00
Y92	92	39	0.00e+00
Y93	93	39	0.00e+00
Zr90	90	40	3.39e-08
Zr91	91	40	7.89e-09
Zr92	92	40	1.29e-08
Zr93	93	40	2.58e-09

Zr94	94	40	1.64e-08		Ag07	107	47	6.47e-10
Zr95	95	40	0.00e+00		Ag09	109	47	1.05e-09
Zr96	96	40	1.45e-09		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	4.23e-11
Nb93	93	41	2.06e-09		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	1.94e-09
Nb95	95	41	0.00e+00		Cd11	111	48	1.02e-09
Nb96	96	41	0.00e+00		Cd12	112	48	2.76e-09
Nb97	97	41	0.00e+00		Cd13	113	48	1.04e-09
Mo92	92	42	9.07e-10		Cd14	114	48	3.77e-09
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	6.44e-10		Cd16	116	48	4.00e-10
Mo95	95	42	2.18e-09		In13	113	49	2.07e-11
Mo96	96	42	3.52e-09		In15	115	49	9.76e-10
Mo97	97	42	1.48e-09		Sn14	114	50	6.58e-11
Mo98	98	42	4.62e-09		Sn15	115	50	3.42e-11
Mo99	99	42	0.00e+00		Sn16	116	50	4.98e-09
Mo00	100	42	6.82e-10		Sn17	117	50	1.86e-09
Tc97	97	43	1.40e-13		Sn18	118	50	7.11e-09
Tc98	98	43	0.00e+00		Sn19	119	50	2.31e-09
Tc99	99	43	1.70e-10		Sn20	120	50	1.06e-08
Ru96	96	44	2.28e-10		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	6.06e-10
Ru98	98	44	7.86e-11		Sn23	123	50	0.00e+00
Ru99	99	44	7.86e-10		Sn24	124	50	6.32e-10
Ru00	100	44	2.04e-09		Sb21	121	51	1.09e-09
Ru01	101	44	1.07e-09		Sb22	122	51	0.00e+00
Ru02	102	44	3.02e-09		Sb23	123	51	4.46e-10
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	8.64e-10		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	1.30e-09
Ru06	106	44	0.00e+00		Te23	123	52	4.68e-10
Rh03	103	45	1.23e-09		Te24	124	52	2.49e-09
Rh05	105	45	0.00e+00		Te25	125	52	1.63e-09
Pd04	104	46	1.55e-09		Te26	126	52	6.02e-09
Pd05	105	46	1.11e-09		Te27	127	52	0.00e+00
Pd06	106	46	2.34e-09		Te28	128	52	4.99e-09
Pd07	107	46	2.59e-10		Te30	130	52	4.97e-09
Pd08	108	46	2.66e-09		I127	127	53	3.42e-09
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	4.54e-10		I129	129	53	6.09e-12

I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	1.77e-10
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	1.65e-10
Xe28	128	54	1.39e-09		Pm45	145	61	0.00e+00
Xe29	129	54	4.90e-09		Pm46	146	61	0.00e+00
Xe30	130	54	2.93e-09		Pm47	147	61	0.00e+00
Xe31	131	54	4.22e-09		Pm48	148	61	0.00e+00
Xe32	132	54	8.53e-09		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	1.73e-09		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	2.68e-11
Xe36	136	54	1.36e-09		Sm45	145	62	0.00e+00
Cs33	133	55	1.68e-09		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	1.79e-10
Cs35	135	55	1.54e-10		Sm48	148	62	2.49e-10
Cs36	136	55	0.00e+00		Sm49	149	62	1.44e-10
Cs37	137	55	0.00e+00		Sm50	150	62	1.54e-10
Ba34	134	56	1.86e-09		Sm51	151	62	0.00e+00
Ba35	135	56	1.47e-09		Sm52	152	62	3.07e-10
Ba36	136	56	5.02e-09		Sm53	153	62	0.00e+00
Ba37	137	56	4.71e-09		Sm54	154	62	2.16e-10
Ba38	138	56	3.34e-08		Eu51	151	63	1.74e-10
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	1.91e-10
La39	139	57	4.02e-09		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	8.97e-09		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	4.59e-10		Gd52	152	64	5.39e-12
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	5.10e-11
Pr41	141	59	1.00e-09		Gd55	155	64	1.94e-10
Pr42	142	59	0.00e+00		Gd56	156	64	3.07e-10
Pr43	143	59	0.00e+00		Gd57	157	64	2.19e-10
Pr45	145	59	0.00e+00		Gd58	158	64	4.18e-10
Nd42	142	60	1.96e-09		Gd59	159	64	0.00e+00
Nd43	143	60	4.98e-10		Gd60	160	64	2.75e-10
Nd44	144	60	1.16e-09		Tb59	159	65	2.45e-10
Nd45	145	60	3.21e-10		Tb60	160	65	0.00e+00
Nd46	146	60	9.44e-10		Tb61	161	65	0.00e+00

Dy60	160	66	7.32e-11		Hf81	181	72	0.00e+00
Dy61	161	66	2.97e-10		Hf82	182	72	2.25e-12
Dy62	162	66	4.59e-10		Hf83	183	72	0.00e+00
Dy63	163	66	3.98e-10		Hf84	184	72	0.00e+00
Dy64	164	66	5.69e-10		Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00		Ta80	180	73	0.00e+00
Dy66	166	66	0.00e+00		Ta81	181	73	1.29e-10
Ho63	163	67	0.00e+00		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta83	183	73	0.00e+00
Ho65	165	67	3.79e-10		Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00		W180	180	74	6.54e-13
Er64	164	68	2.68e-11		W181	181	74	0.00e+00
Er65	165	68	0.00e+00		W182	182	74	2.49e-10
Er66	166	68	4.01e-10		W183	183	74	1.36e-10
Er67	167	68	2.59e-10		W184	184	74	3.18e-10
Er68	168	68	3.80e-10		W185	185	74	0.00e+00
Er69	169	68	0.00e+00		W186	186	74	1.82e-10
Er70	170	68	1.61e-10		W187	187	74	0.00e+00
Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	1.12e-10
Tm69	169	69	1.74e-10		Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00		Re87	187	75	9.86e-11
Tm71	171	69	0.00e+00		Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00		Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00		Os86	186	76	1.10e-10
Yb70	170	70	6.90e-11		Os87	187	76	1.20e-10
Yb71	171	70	1.80e-10		Os88	188	76	4.70e-10
Yb72	172	70	3.32e-10		Os89	189	76	5.06e-10
Yb73	173	70	2.14e-10		Os90	190	76	8.91e-10
Yb74	174	70	5.53e-10		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	1.26e-09
Yb76	176	70	1.38e-10		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	1.72e-10		Ir91	191	77	1.10e-09
Lu76	176	71	8.25e-12		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	1.86e-09
Hf76	176	72	7.96e-11		Ir94	194	77	0.00e+00
Hf77	177	72	1.56e-10		Ir95	195	77	0.00e+00
Hf78	178	72	3.03e-10		Pt92	192	78	9.52e-11
Hf79	179	72	1.34e-10		Pt93	193	78	0.00e+00
Hf80	180	72	4.54e-10		Pt94	194	78	2.15e-09

Isotope	A	Z	YIELD
Pt95	195	78	2.14e-09
Pt96	196	78	1.75e-09
Pt97	197	78	0.00e+00
Pt98	198	78	4.53e-10
Au97	197	79	9.50e-10
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	3.35e-10
Hg99	199	80	3.90e-10
Hg00	200	80	6.59e-10
Hg01	201	80	3.42e-10
Hg02	202	80	9.32e-10
Hg03	203	80	0.00e+00
Hg04	204	80	1.39e-10
Tl03	203	81	4.03e-10
Tl04	204	81	0.00e+00
Tl05	205	81	9.88e-10
Pb04	204	82	5.52e-10
Pb05	205	82	2.16e-11
Pb06	206	82	4.02e-09
Pb07	207	82	4.45e-09
Pb08	208	82	1.10e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	6.92e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M_o = 1.50; Z = 0.020000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	5.94e-01
He4	4	2	2.54e-01
C12	12	6	3.37e-03
C13	13	6	8.83e-05
C14	14	6	2.50e-11
N14	14	7	1.90e-03

Isotope	A	Z	YIELD [$M_\odot$]
N15	15	7	2.24e-06
O16	16	8	7.61e-03
O17	17	8	7.72e-06
O18	18	8	1.36e-05
F18	18	9	0.00e+00
F19	19	9	6.46e-07
Ne20	20	10	1.34e-03
Ne21	21	10	3.39e-06
Ne22	22	10	2.41e-04
Na22	22	11	0.00e+00
Na23	23	11	4.94e-05
Na24	24	11	0.00e+00
Mg24	24	12	6.73e-04
Mg25	25	12	8.81e-05
Mg26	26	12	1.02e-04
Al26	26	13	1.75e-07
Al27	27	13	7.62e-05
Si28	28	14	8.74e-04
Si29	29	14	4.60e-05
Si30	30	14	3.15e-05
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	8.22e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	4.59e-04
S33	33	16	3.76e-06
S34	34	16	2.17e-05
S35	35	16	0.00e+00
S36	36	16	9.83e-08
Cl35	35	17	4.70e-06
Cl36	36	17	3.00e-10
Cl37	37	17	1.64e-06
Ar36	36	18	1.05e-04
Ar37	37	18	0.00e+00
Ar38	38	18	2.03e-05
Ar39	39	18	7.24e-13
Ar40	40	18	3.75e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	4.37e-06

K40	40	19	3.39e-09		Ni58	58	28	6.38e-05
K41	41	19	3.41e-07		Ni59	59	28	2.30e-09
K42	42	19	0.00e+00		Ni60	60	28	2.55e-05
K43	43	19	0.00e+00		Ni61	61	28	1.17e-06
Ca40	40	20	7.90e-05		Ni62	62	28	3.71e-06
Ca41	41	20	4.96e-10		Ni63	63	28	1.60e-13
Ca42	42	20	5.61e-07		Ni64	64	28	1.02e-06
Ca43	43	20	1.20e-07		Ni65	65	28	0.00e+00
Ca44	44	20	1.87e-06		Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00		Cu63	63	29	8.12e-07
Ca46	46	20	4.03e-09		Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00		Cu65	65	29	3.77e-07
Ca48	48	20	1.83e-07		Cu66	66	29	0.00e+00
Sc45	45	21	5.27e-08		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	1.33e-06
Sc47	47	21	0.00e+00		Zn65	65	30	0.00e+00
Sc48	48	21	0.00e+00		Zn66	66	30	8.01e-07
Sc49	49	21	0.00e+00		Zn67	67	30	1.21e-07
Ti46	46	22	3.09e-07		Zn68	68	30	5.66e-07
Ti47	47	22	2.83e-07		Zn69	69	30	0.00e+00
Ti48	48	22	2.86e-06		Zn70	70	30	1.85e-08
Ti49	49	22	2.21e-07		Ga69	69	31	5.54e-08
Ti50	50	22	2.18e-07		Ga70	70	31	0.00e+00
V50	50	23	1.21e-09		Ga71	71	31	3.93e-08
V51	51	23	4.96e-07		Ga72	72	31	0.00e+00
Cr50	50	24	9.65e-07		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	6.82e-08
Cr52	52	24	1.94e-05		Ge71	71	32	0.00e+00
Cr53	53	24	2.24e-06		Ge72	72	32	8.93e-08
Cr54	54	24	5.85e-07		Ge73	73	32	2.52e-08
Mn55	55	25	1.70e-05		Ge74	74	32	1.24e-07
Mn56	56	25	0.00e+00		Ge75	75	32	0.00e+00
Fe54	54	26	9.27e-05		Ge76	76	32	2.30e-08
Fe55	55	26	1.75e-13		Ge77	77	32	0.00e+00
Fe56	56	26	1.51e-03		As75	75	33	1.69e-08
Fe57	57	26	3.61e-05		As76	76	33	0.00e+00
Fe58	58	26	5.50e-06		As77	77	33	0.00e+00
Fe59	59	26	0.00e+00		Se76	76	34	2.01e-08
Fe60	60	26	1.48e-08		Se77	77	34	1.49e-08
Co59	59	27	4.62e-06		Se78	78	34	5.27e-08
Co60	60	27	0.00e+00		Se79	79	34	6.14e-10

Se80	80	34	1.04e-07
Se81	81	34	0.00e+00
Se82	82	34	1.54e-08
Br79	79	35	1.66e-08
Br80	80	35	0.00e+00
Br81	81	35	1.78e-08
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	4.17e-09
Kr81	81	36	9.94e-11
Kr82	82	36	2.46e-08
Kr83	83	36	2.01e-08
Kr84	84	36	1.03e-07
Kr85	85	36	0.00e+00
Kr86	86	36	2.99e-08
Kr87	87	36	0.00e+00
Kr88	88	36	0.00e+00
Rb85	85	37	1.65e-08
Rb86	86	37	0.00e+00
Rb87	87	37	6.61e-09
Rb88	88	37	0.00e+00
Sr86	86	38	1.37e-08
Sr87	87	38	9.49e-09
Sr88	88	38	1.34e-07
Sr89	89	38	0.00e+00
Sr90	90	38	0.00e+00
Sr91	91	38	0.00e+00
Sr92	92	38	0.00e+00
Y89	89	39	2.83e-08
Y90	90	39	0.00e+00
Y91	91	39	0.00e+00
Y92	92	39	0.00e+00
Y93	93	39	0.00e+00
Zr90	90	40	3.29e-08
Zr91	91	40	7.23e-09
Zr92	92	40	1.12e-08
Zr93	93	40	1.52e-09
Zr94	94	40	1.31e-08
Zr95	95	40	0.00e+00
Zr96	96	40	1.23e-09

Zr97	97	40	0.00e+00
Nb93	93	41	2.70e-09
Nb94	94	41	0.00e+00
Nb95	95	41	0.00e+00
Nb96	96	41	0.00e+00
Nb97	97	41	0.00e+00
Mo92	92	42	1.30e-09
Mo93	93	42	0.00e+00
Mo94	94	42	8.57e-10
Mo95	95	42	2.12e-09
Mo96	96	42	2.87e-09
Mo97	97	42	1.34e-09
Mo98	98	42	3.88e-09
Mo99	99	42	0.00e+00
Mo00	100	42	9.31e-10
Tc97	97	43	1.34e-13
Tc98	98	43	0.00e+00
Tc99	99	43	6.44e-11
Ru96	96	44	3.26e-10
Ru97	97	44	0.00e+00
Ru98	98	44	1.12e-10
Ru99	99	44	9.31e-10
Ru00	100	44	1.58e-09
Ru01	101	44	1.23e-09
Ru02	102	44	3.03e-09
Ru03	103	44	0.00e+00
Ru04	104	44	1.20e-09
Ru05	105	44	0.00e+00
Ru06	106	44	0.00e+00
Rh03	103	45	1.45e-09
Rh05	105	45	0.00e+00
Pd04	104	46	1.17e-09
Pd05	105	46	1.31e-09
Pd06	106	46	2.10e-09
Pd07	107	46	1.31e-10
Pd08	108	46	2.24e-09
Pd09	109	46	0.00e+00
Pd10	110	46	6.20e-10
Ag07	107	47	9.20e-10
Ag09	109	47	1.10e-09
Ag11	111	47	0.00e+00

Cd08	108	48	5.49e-11		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	8.87e-10
Cd10	110	48	1.42e-09		Xe29	129	54	6.56e-09
Cd11	111	48	9.94e-10		Xe30	130	54	1.80e-09
Cd12	112	48	2.27e-09		Xe31	131	54	5.37e-09
Cd13	113	48	9.86e-10		Xe32	132	54	7.64e-09
Cd14	114	48	2.92e-09		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	2.36e-09
Cd16	116	48	4.82e-10		Xe35	135	54	0.00e+00
In13	113	49	2.97e-11		Xe36	136	54	1.94e-09
In15	115	49	9.08e-10		Cs33	133	55	1.80e-09
Sn14	114	50	9.42e-11		Cs34	134	55	0.00e+00
Sn15	115	50	4.89e-11		Cs35	135	55	4.51e-11
Sn16	116	50	3.68e-09		Cs36	136	55	0.00e+00
Sn17	117	50	1.60e-09		Cs37	137	55	0.00e+00
Sn18	118	50	5.50e-09		Ba34	134	56	9.75e-10
Sn19	119	50	1.88e-09		Ba35	135	56	1.51e-09
Sn20	120	50	7.67e-09		Ba36	136	56	2.77e-09
Sn21	121	50	0.00e+00		Ba37	137	56	3.19e-09
Sn22	122	50	7.25e-10		Ba38	138	56	1.99e-08
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00
Sn24	124	50	9.01e-10		Ba40	140	56	0.00e+00
Sb21	121	51	9.87e-10		La39	139	57	2.55e-09
Sb22	122	51	0.00e+00		La40	140	57	0.00e+00
Sb23	123	51	5.96e-10		Ce40	140	58	5.96e-09
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	6.29e-10
Te22	122	52	8.77e-10		Ce43	143	58	0.00e+00
Te23	123	52	3.12e-10		Ce44	144	58	0.00e+00
Te24	124	52	1.64e-09		Pr41	141	59	9.05e-10
Te25	125	52	1.67e-09		Pr42	142	59	0.00e+00
Te26	126	52	5.05e-09		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	6.68e-09		Nd42	142	60	1.31e-09
Te30	130	52	7.10e-09		Nd43	143	60	5.17e-10
I127	127	53	4.43e-09		Nd44	144	60	1.05e-09
I128	128	53	0.00e+00		Nd45	145	60	3.53e-10
I129	129	53	1.54e-12		Nd46	146	60	7.88e-10
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	2.40e-10
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00

Nd50	150	60	2.36e-10		Dy63	163	66	5.37e-10
Pm45	145	61	0.00e+00		Dy64	164	66	6.36e-10
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	0.00e+00
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	5.01e-10
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	3.84e-11		Er64	164	68	2.49e-11
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	4.96e-10
Sm47	147	62	1.99e-10		Er67	167	68	3.37e-10
Sm48	148	62	1.72e-10		Er68	168	68	4.11e-10
Sm49	149	62	1.82e-10		Er69	169	68	0.00e+00
Sm50	150	62	1.12e-10		Er70	170	68	2.21e-10
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	3.63e-10		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	2.15e-10
Sm54	154	62	3.04e-10		Tm70	170	69	0.00e+00
Eu51	151	63	2.34e-10		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00
Eu53	153	63	2.59e-10		Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00		Yb70	170	70	5.23e-11
Eu55	155	63	0.00e+00		Yb71	171	70	2.14e-10
Eu56	156	63	0.00e+00		Yb72	172	70	3.40e-10
Eu57	157	63	0.00e+00		Yb73	173	70	2.46e-10
Gd52	152	64	4.19e-12		Yb74	174	70	5.13e-10
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00
Gd54	154	64	4.24e-11		Yb76	176	70	1.91e-10
Gd55	155	64	2.58e-10		Yb77	177	70	0.00e+00
Gd56	156	64	3.68e-10		Lu75	175	71	2.09e-10
Gd57	157	64	2.79e-10		Lu76	176	71	5.03e-12
Gd58	158	64	4.59e-10		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	6.28e-11
Gd60	160	64	3.91e-10		Hf77	177	72	1.93e-10
Tb59	159	65	3.20e-10		Hf78	178	72	3.00e-10
Tb60	160	65	0.00e+00		Hf79	179	72	1.47e-10
Tb61	161	65	0.00e+00		Hf80	180	72	4.02e-10
Dy60	160	66	5.71e-11		Hf81	181	72	0.00e+00
Dy61	161	66	4.02e-10		Hf82	182	72	7.84e-13
Dy62	162	66	5.58e-10		Hf83	183	72	0.00e+00

Isotope	A	Z	Yield
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00
Ta81	181	73	1.35e-10
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	9.35e-13
W181	181	74	0.00e+00
W182	182	74	2.31e-10
W183	183	74	1.25e-10
W184	184	74	2.71e-10
W185	185	74	0.00e+00
W186	186	74	2.33e-10
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	1.27e-10
Re86	186	75	0.00e+00
Re87	187	75	1.23e-10
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	8.08e-11
Os87	187	76	1.59e-10
Os88	188	76	5.90e-10
Os89	189	76	7.01e-10
Os90	190	76	1.16e-09
Os91	191	76	0.00e+00
Os92	192	76	1.79e-09
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	1.55e-09
Ir92	192	77	0.00e+00
Ir93	193	77	2.64e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	8.06e-11
Pt93	193	78	0.00e+00
Pt94	194	78	2.94e-09
Pt95	195	78	3.01e-09
Pt96	196	78	2.29e-09
Pt97	197	78	0.00e+00

Isotope	A	Z	Yield
Pt98	198	78	6.46e-10
Au97	197	79	1.30e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	3.11e-10
Hg99	199	80	4.86e-10
Hg00	200	80	6.96e-10
Hg01	201	80	3.91e-10
Hg02	202	80	9.30e-10
Hg03	203	80	0.00e+00
Hg04	204	80	1.97e-10
Tl03	203	81	4.08e-10
Tl04	204	81	0.00e+00
Tl05	205	81	9.84e-10
Pb04	204	82	4.84e-10
Pb05	205	82	3.43e-12
Pb06	206	82	4.46e-09
Pb07	207	82	4.84e-09
Pb08	208	82	1.36e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	9.76e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\star$ = 2.00; Z = 0.000020 [α/Fe]=0.5; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\star$]
H	1	1	9.10e-01
He4	4	2	3.48e-01
C12	12	6	7.74e-03
C13	13	6	6.77e-07
C14	14	6	6.35e-09
N14	14	7	1.23e-05
N15	15	7	2.53e-09
O16	16	8	2.98e-04
O17	17	8	1.93e-07

O18	18	8	1.88e-08		K43	43	19	0.00e+00
F18	18	9	0.00e+00		Ca40	40	20	3.68e-07
F19	19	9	2.76e-07		Ca41	41	20	2.29e-11
Ne20	20	10	8.03e-06		Ca42	42	20	1.13e-09
Ne21	21	10	2.79e-07		Ca43	43	20	2.54e-10
Ne22	22	10	3.16e-04		Ca44	44	20	3.09e-09
Na22	22	11	0.00e+00		Ca45	45	20	0.00e+00
Na23	23	11	2.87e-06		Ca46	46	20	5.58e-11
Na24	24	11	0.00e+00		Ca47	47	20	0.00e+00
Mg24	24	12	7.56e-06		Ca48	48	20	2.72e-10
Mg25	25	12	4.70e-06		Sc45	45	21	1.55e-10
Mg26	26	12	6.04e-06		Sc46	46	21	0.00e+00
Al26	26	13	1.28e-08		Sc47	47	21	0.00e+00
Al27	27	13	6.99e-07		Sc48	48	21	0.00e+00
Si28	28	14	4.66e-06		Sc49	49	21	0.00e+00
Si29	29	14	1.14e-07		Ti46	46	22	5.22e-10
Si30	30	14	9.21e-08		Ti47	47	22	4.47e-10
Si31	31	14	0.00e+00		Ti48	48	22	4.26e-09
Si32	32	14	0.00e+00		Ti49	49	22	4.46e-10
P31	31	15	1.04e-07		Ti50	50	22	1.32e-09
P32	32	15	0.00e+00		V50	50	23	1.77e-12
P33	33	15	0.00e+00		V51	51	23	7.90e-10
S32	32	16	2.19e-06		Cr50	50	24	1.41e-09
S33	33	16	7.60e-09		Cr51	51	24	0.00e+00
S34	34	16	4.28e-08		Cr52	52	24	2.89e-08
S35	35	16	0.00e+00		Cr53	53	24	3.34e-09
S36	36	16	1.53e-09		Cr54	54	24	1.25e-09
Cl35	35	17	7.05e-09		Mn55	55	25	2.50e-08
Cl36	36	17	7.93e-12		Mn56	56	25	0.00e+00
Cl37	37	17	3.54e-09		Fe54	54	26	1.36e-07
Ar36	36	18	4.90e-07		Fe55	55	26	0.00e+00
Ar37	37	18	0.00e+00		Fe56	56	26	2.23e-06
Ar38	38	18	3.25e-08		Fe57	57	26	5.81e-08
Ar39	39	18	3.79e-13		Fe58	58	26	1.96e-08
Ar40	40	18	4.82e-10		Fe59	59	26	0.00e+00
Ar41	41	18	0.00e+00		Fe60	60	26	1.29e-09
Ar42	42	18	0.00e+00		Co59	59	27	1.00e-08
K39	39	19	6.94e-09		Co60	60	27	0.00e+00
K40	40	19	4.62e-11		Ni58	58	28	9.31e-08
K41	41	19	7.34e-10		Ni59	59	28	2.69e-11
K42	42	19	0.00e+00		Ni60	60	28	3.93e-08

Ni61	61	28	2.57e-09
Ni62	62	28	7.37e-09
Ni63	63	28	1.54e-13
Ni64	64	28	3.08e-09
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	2.22e-09
Cu64	64	29	0.00e+00
Cu65	65	29	1.01e-09
Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	1.99e-09
Zn65	65	30	0.00e+00
Zn66	66	30	1.61e-09
Zn67	67	30	2.79e-10
Zn68	68	30	1.53e-09
Zn69	69	30	0.00e+00
Zn70	70	30	3.33e-11
Ga69	69	31	1.81e-10
Ga70	70	31	0.00e+00
Ga71	71	31	1.33e-10
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	2.52e-10
Ge71	71	32	0.00e+00
Ge72	72	32	2.98e-10
Ge73	73	32	8.80e-11
Ge74	74	32	5.38e-10
Ge75	75	32	0.00e+00
Ge76	76	32	4.58e-11
Ge77	77	32	0.00e+00
As75	75	33	6.16e-11
As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	1.14e-10
Se77	77	34	5.59e-11
Se78	78	34	3.05e-10
Se79	79	34	3.08e-11
Se80	80	34	4.46e-10
Se81	81	34	0.00e+00
Se82	82	34	2.92e-11

Br79	79	35	4.45e-11
Br80	80	35	0.00e+00
Br81	81	35	7.81e-11
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	8.09e-12
Kr81	81	36	4.75e-13
Kr82	82	36	1.60e-10
Kr83	83	36	7.57e-11
Kr84	84	36	5.20e-10
Kr85	85	36	0.00e+00
Kr86	86	36	4.84e-10
Kr87	87	36	0.00e+00
Kr88	88	36	0.00e+00
Rb85	85	37	1.58e-10
Rb86	86	37	0.00e+00
Rb87	87	37	2.20e-10
Rb88	88	37	0.00e+00
Sr86	86	38	8.49e-11
Sr87	87	38	4.70e-11
Sr88	88	38	1.92e-09
Sr89	89	38	0.00e+00
Sr90	90	38	0.00e+00
Sr91	91	38	0.00e+00
Sr92	92	38	0.00e+00
Y89	89	39	5.74e-10
Y90	90	39	0.00e+00
Y91	91	39	0.00e+00
Y92	92	39	0.00e+00
Y93	93	39	0.00e+00
Zr90	90	40	5.19e-10
Zr91	91	40	1.65e-10
Zr92	92	40	2.82e-10
Zr93	93	40	9.56e-11
Zr94	94	40	3.59e-10
Zr95	95	40	0.00e+00
Zr96	96	40	1.90e-10
Zr97	97	40	0.00e+00
Nb93	93	41	1.46e-11
Nb94	94	41	0.00e+00

Nb95	95	41	0.00e+00		Cd11	111	48	1.40e-11
Nb96	96	41	0.00e+00		Cd12	112	48	5.11e-11
Nb97	97	41	0.00e+00		Cd13	113	48	1.54e-11
Mo92	92	42	1.89e-12		Cd14	114	48	7.42e-11
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	1.22e-12		Cd16	116	48	2.58e-11
Mo95	95	42	4.77e-11		In13	113	49	0.00e+00
Mo96	96	42	7.74e-11		In15	115	49	1.56e-11
Mo97	97	42	3.11e-11		Sn14	114	50	1.37e-13
Mo98	98	42	8.98e-11		Sn15	115	50	0.00e+00
Mo99	99	42	0.00e+00		Sn16	116	50	9.13e-11
Mo00	100	42	1.08e-11		Sn17	117	50	3.34e-11
Tc97	97	43	0.00e+00		Sn18	118	50	1.64e-10
Tc98	98	43	0.00e+00		Sn19	119	50	5.06e-11
Tc99	99	43	5.87e-12		Sn20	120	50	2.84e-10
Ru96	96	44	4.76e-13		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	8.29e-11
Ru98	98	44	1.64e-13		Sn23	123	50	0.00e+00
Ru99	99	44	6.95e-12		Sn24	124	50	7.79e-12
Ru00	100	44	3.74e-11		Sb21	121	51	2.28e-11
Ru01	101	44	1.02e-11		Sb22	122	51	0.00e+00
Ru02	102	44	5.50e-11		Sb23	123	51	1.14e-11
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	9.26e-12		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	3.22e-11
Ru06	106	44	0.00e+00		Te23	123	52	1.08e-11
Rh03	103	45	1.14e-11		Te24	124	52	7.17e-11
Rh05	105	45	0.00e+00		Te25	125	52	2.53e-11
Pd04	104	46	2.64e-11		Te26	126	52	1.24e-10
Pd05	105	46	9.30e-12		Te27	127	52	0.00e+00
Pd06	106	46	3.65e-11		Te28	128	52	2.95e-11
Pd07	107	46	6.61e-12		Te30	130	52	1.04e-11
Pd08	108	46	4.55e-11		I127	127	53	2.19e-11
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	8.78e-12		I129	129	53	6.89e-13
Ag07	107	47	1.51e-12		I130	130	53	0.00e+00
Ag09	109	47	1.39e-11		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	0.00e+00		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	3.64e-11
Cd10	110	48	3.52e-11		Xe29	129	54	2.47e-11

Xe30	130	54	7.59e-11
Xe31	131	54	2.86e-11
Xe32	132	54	1.61e-10
Xe33	133	54	0.00e+00
Xe34	134	54	8.07e-11
Xe35	135	54	0.00e+00
Xe36	136	54	6.38e-12
Cs33	133	55	2.43e-11
Cs34	134	55	0.00e+00
Cs35	135	55	2.41e-11
Cs36	136	55	0.00e+00
Cs37	137	55	0.00e+00
Ba34	134	56	4.39e-11
Ba35	135	56	1.63e-11
Ba36	136	56	1.47e-10
Ba37	137	56	2.10e-10
Ba38	138	56	2.35e-09
Ba39	139	56	0.00e+00
Ba40	140	56	0.00e+00
La39	139	57	2.90e-10
La40	140	57	0.00e+00
Ce40	140	58	8.12e-10
Ce41	141	58	0.00e+00
Ce42	142	58	1.20e-10
Ce43	143	58	0.00e+00
Ce44	144	58	0.00e+00
Pr41	141	59	9.69e-11
Pr42	142	59	0.00e+00
Pr43	143	59	0.00e+00
Pr45	145	59	0.00e+00
Nd42	142	60	1.73e-10
Nd43	143	60	4.12e-11
Nd44	144	60	1.41e-10
Nd45	145	60	2.63e-11
Nd46	146	60	1.24e-10
Nd47	147	60	0.00e+00
Nd48	148	60	2.66e-11
Nd49	149	60	0.00e+00
Nd50	150	60	1.60e-12
Pm45	145	61	0.00e+00
Pm46	146	61	0.00e+00

Pm47	147	61	0.00e+00
Pm48	148	61	0.00e+00
Pm49	149	61	0.00e+00
Pm50	150	61	0.00e+00
Pm51	151	61	0.00e+00
Sm44	144	62	0.00e+00
Sm45	145	62	0.00e+00
Sm46	146	62	0.00e+00
Sm47	147	62	1.45e-11
Sm48	148	62	2.93e-11
Sm49	149	62	6.57e-12
Sm50	150	62	2.70e-11
Sm51	151	62	0.00e+00
Sm52	152	62	2.41e-11
Sm53	153	62	0.00e+00
Sm54	154	62	1.24e-11
Eu51	151	63	4.22e-12
Eu52	152	63	0.00e+00
Eu53	153	63	5.10e-12
Eu54	154	63	0.00e+00
Eu55	155	63	0.00e+00
Eu56	156	63	0.00e+00
Eu57	157	63	0.00e+00
Gd52	152	64	2.82e-13
Gd53	153	64	0.00e+00
Gd54	154	64	5.92e-12
Gd55	155	64	7.09e-12
Gd56	156	64	2.10e-11
Gd57	157	64	9.88e-12
Gd58	158	64	3.71e-11
Gd59	159	64	0.00e+00
Gd60	160	64	1.04e-11
Tb59	159	65	9.01e-12
Tb60	160	65	0.00e+00
Tb61	161	65	0.00e+00
Dy60	160	66	1.23e-11
Dy61	161	66	7.31e-12
Dy62	162	66	2.89e-11
Dy63	163	66	9.60e-12
Dy64	164	66	4.28e-11
Dy65	165	66	0.00e+00

Dy66	166	66	0.00e+00		Ta81	181	73	1.61e-11
Ho63	163	67	0.00e+00		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta83	183	73	0.00e+00
Ho65	165	67	1.20e-11		Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00		W180	180	74	0.00e+00
Er64	164	68	4.88e-12		W181	181	74	0.00e+00
Er65	165	68	0.00e+00		W182	182	74	2.81e-11
Er66	166	68	1.77e-11		W183	183	74	2.00e-11
Er67	167	68	8.61e-12		W184	184	74	5.04e-11
Er68	168	68	3.22e-11		W185	185	74	0.00e+00
Er69	169	68	0.00e+00		W186	186	74	2.57e-11
Er70	170	68	1.67e-11		W187	187	74	0.00e+00
Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	1.02e-11
Tm69	169	69	6.90e-12		Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00		Re87	187	75	7.08e-12
Tm71	171	69	0.00e+00		Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00		Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00		Os86	186	76	1.64e-11
Yb70	170	70	9.36e-12		Os87	187	76	4.50e-12
Yb71	171	70	1.44e-11		Os88	188	76	4.37e-11
Yb72	172	70	3.43e-11		Os89	189	76	1.02e-11
Yb73	173	70	1.60e-11		Os90	190	76	4.99e-11
Yb74	174	70	7.29e-11		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	3.63e-11
Yb76	176	70	2.05e-11		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	1.03e-11		Ir91	191	77	1.16e-11
Lu76	176	71	1.72e-12		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	1.69e-11
Hf76	176	72	1.29e-11		Ir94	194	77	0.00e+00
Hf77	177	72	9.33e-12		Ir95	195	77	0.00e+00
Hf78	178	72	4.07e-11		Pt92	192	78	1.30e-11
Hf79	179	72	1.42e-11		Pt93	193	78	0.00e+00
Hf80	180	72	7.62e-11		Pt94	194	78	6.75e-11
Hf81	181	72	0.00e+00		Pt95	195	78	2.77e-11
Hf82	182	72	8.31e-12		Pt96	196	78	7.87e-11
Hf83	183	72	0.00e+00		Pt97	197	78	0.00e+00
Hf84	184	72	0.00e+00		Pt98	198	78	1.30e-11
Ta79	179	73	0.00e+00		Au97	197	79	2.35e-11
Ta80	180	73	0.00e+00		Au98	198	79	0.00e+00

Isotope	A	Z	YIELD
Au99	199	79	0.00e+00
Hg98	198	80	6.02e-11
Hg99	199	80	3.04e-11
Hg00	200	80	9.80e-11
Hg01	201	80	4.19e-11
Hg02	202	80	1.78e-10
Hg03	203	80	0.00e+00
Hg04	204	80	1.52e-11
Tl03	203	81	8.62e-11
Tl04	204	81	0.00e+00
Tl05	205	81	1.61e-10
Pb04	204	82	9.33e-11
Pb05	205	82	3.93e-12
Pb06	206	82	1.35e-09
Pb07	207	82	1.81e-09
Pb08	208	82	4.36e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	7.09e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 2.00; Z = 0.000050 [α/Fe]=0.5; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	8.59e-01
He4	4	2	3.82e-01
C12	12	6	1.64e-02
C13	13	6	1.52e-06
C14	14	6	1.63e-08
N14	14	7	3.53e-05
N15	15	7	6.25e-09
O16	16	8	5.95e-04
O17	17	8	1.53e-06
O18	18	8	4.41e-08
F18	18	9	0.00e+00
F19	19	9	1.36e-06

Isotope	A	Z	YIELD
Ne20	20	10	2.65e-05
Ne21	21	10	1.22e-06
Ne22	22	10	1.29e-03
Na22	22	11	0.00e+00
Na23	23	11	1.31e-05
Na24	24	11	0.00e+00
Mg24	24	12	3.43e-05
Mg25	25	12	2.79e-05
Mg26	26	12	3.02e-05
Al26	26	13	3.40e-08
Al27	27	13	1.89e-06
Si28	28	14	1.17e-05
Si29	29	14	3.22e-07
Si30	30	14	2.89e-07
Si31	31	14	0.00e+00
Si32	32	14	1.06e-13
P31	31	15	2.95e-07
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	5.37e-06
S33	33	16	2.19e-08
S34	34	16	1.27e-07
S35	35	16	0.00e+00
S36	36	16	4.49e-09
Cl35	35	17	1.73e-08
Cl36	36	17	2.63e-11
Cl37	37	17	1.18e-08
Ar36	36	18	1.19e-06
Ar37	37	18	0.00e+00
Ar38	38	18	8.79e-08
Ar39	39	18	1.43e-12
Ar40	40	18	2.33e-09
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	1.85e-08
K40	40	19	2.20e-10
K41	41	19	2.61e-09
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	8.96e-07
Ca41	41	20	8.96e-11

Ca42	42	20	3.70e-09		Ni64	64	28	1.40e-08
Ca43	43	20	8.71e-10		Ni65	65	28	0.00e+00
Ca44	44	20	8.46e-09		Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00		Cu63	63	29	9.43e-09
Ca46	46	20	3.11e-10		Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00		Cu65	65	29	4.31e-09
Ca48	48	20	6.70e-10		Cu66	66	29	0.00e+00
Sc45	45	21	6.16e-10		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	4.90e-09
Sc47	47	21	0.00e+00		Zn65	65	30	0.00e+00
Sc48	48	21	0.00e+00		Zn66	66	30	5.58e-09
Sc49	49	21	0.00e+00		Zn67	67	30	1.07e-09
Ti46	46	22	1.43e-09		Zn68	68	30	6.37e-09
Ti47	47	22	1.15e-09		Zn69	69	30	0.00e+00
Ti48	48	22	1.04e-08		Zn70	70	30	1.25e-10
Ti49	49	22	1.40e-09		Ga69	69	31	8.24e-10
Ti50	50	22	5.30e-09		Ga70	70	31	0.00e+00
V50	50	23	4.23e-12		Ga71	71	31	6.20e-10
V51	51	23	2.04e-09		Ga72	72	31	0.00e+00
Cr50	50	24	3.36e-09		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	1.19e-09
Cr52	52	24	7.06e-08		Ge71	71	32	0.00e+00
Cr53	53	24	8.21e-09		Ge72	72	32	1.35e-09
Cr54	54	24	4.23e-09		Ge73	73	32	4.05e-10
Mn55	55	25	6.09e-08		Ge74	74	32	2.57e-09
Mn56	56	25	0.00e+00		Ge75	75	32	0.00e+00
Fe54	54	26	3.24e-07		Ge76	76	32	1.85e-10
Fe55	55	26	0.00e+00		Ge77	77	32	0.00e+00
Fe56	56	26	5.39e-06		As75	75	33	2.79e-10
Fe57	57	26	1.60e-07		As76	76	33	0.00e+00
Fe58	58	26	9.29e-08		As77	77	33	0.00e+00
Fe59	59	26	0.00e+00		Se76	76	34	5.71e-10
Fe60	60	26	1.02e-08		Se77	77	34	2.56e-10
Co59	59	27	3.78e-08		Se78	78	34	1.53e-09
Co60	60	27	0.00e+00		Se79	79	34	1.38e-10
Ni58	58	28	2.23e-07		Se80	80	34	2.06e-09
Ni59	59	28	7.97e-11		Se81	81	34	0.00e+00
Ni60	60	28	1.02e-07		Se82	82	34	1.22e-10
Ni61	61	28	9.53e-09		Br79	79	35	2.15e-10
Ni62	62	28	2.51e-08		Br80	80	35	0.00e+00
Ni63	63	28	6.51e-13		Br81	81	35	3.63e-10

Br82	82	35	0.00e+00		Mo92	92	42	4.51e-12
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	3.03e-12
Kr80	80	36	2.88e-11		Mo95	95	42	2.35e-10
Kr81	81	36	1.80e-12		Mo96	96	42	3.68e-10
Kr82	82	36	7.92e-10		Mo97	97	42	1.49e-10
Kr83	83	36	3.34e-10		Mo98	98	42	4.38e-10
Kr84	84	36	2.41e-09		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	5.49e-11
Kr86	86	36	2.33e-09		Tc97	97	43	0.00e+00
Kr87	87	36	0.00e+00		Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00		Tc99	99	43	2.17e-11
Rb85	85	37	7.84e-10		Ru96	96	44	1.13e-12
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	1.17e-09		Ru98	98	44	3.91e-13
Rb88	88	37	0.00e+00		Ru99	99	44	3.95e-11
Sr86	86	38	4.12e-10		Ru00	100	44	1.84e-10
Sr87	87	38	2.20e-10		Ru01	101	44	4.76e-11
Sr88	88	38	9.46e-09		Ru02	102	44	2.69e-10
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	4.49e-11
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	2.80e-09		Rh03	103	45	5.22e-11
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	1.28e-10
Y92	92	39	0.00e+00		Pd05	105	46	4.19e-11
Y93	93	39	0.00e+00		Pd06	106	46	1.75e-10
Zr90	90	40	2.45e-09		Pd07	107	46	3.19e-11
Zr91	91	40	7.89e-10		Pd08	108	46	2.16e-10
Zr92	92	40	1.33e-09		Pd09	109	46	0.00e+00
Zr93	93	40	4.31e-10		Pd10	110	46	4.54e-11
Zr94	94	40	1.72e-09		Ag07	107	47	4.65e-12
Zr95	95	40	0.00e+00		Ag09	109	47	6.46e-11
Zr96	96	40	9.19e-10		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	1.83e-13
Nb93	93	41	9.32e-11		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	1.65e-10
Nb95	95	41	0.00e+00		Cd11	111	48	6.50e-11
Nb96	96	41	0.00e+00		Cd12	112	48	2.41e-10
Nb97	97	41	0.00e+00		Cd13	113	48	7.14e-11

Cd14	114	48	3.48e-10	Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00	Xe34	134	54	4.30e-10
Cd16	116	48	1.32e-10	Xe35	135	54	0.00e+00
In13	113	49	1.03e-13	Xe36	136	54	3.94e-11
In15	115	49	7.26e-11	Cs33	133	55	1.06e-10
Sn14	114	50	3.27e-13	Cs34	134	55	0.00e+00
Sn15	115	50	1.70e-13	Cs35	135	55	1.17e-10
Sn16	116	50	4.19e-10	Cs36	136	55	0.00e+00
Sn17	117	50	1.55e-10	Cs37	137	55	0.00e+00
Sn18	118	50	7.65e-10	Ba34	134	56	1.93e-10
Sn19	119	50	2.34e-10	Ba35	135	56	7.20e-11
Sn20	120	50	1.32e-09	Ba36	136	56	6.62e-10
Sn21	121	50	0.00e+00	Ba37	137	56	9.96e-10
Sn22	122	50	4.47e-10	Ba38	138	56	1.05e-08
Sn23	123	50	0.00e+00	Ba39	139	56	0.00e+00
Sn24	124	50	5.75e-11	Ba40	140	56	0.00e+00
Sb21	121	51	1.05e-10	La39	139	57	1.29e-09
Sb22	122	51	0.00e+00	La40	140	57	0.00e+00
Sb23	123	51	5.83e-11	Ce40	140	58	3.58e-09
Sb24	124	51	0.00e+00	Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00	Ce42	142	58	6.16e-10
Te22	122	52	1.47e-10	Ce43	143	58	0.00e+00
Te23	123	52	4.91e-11	Ce44	144	58	0.00e+00
Te24	124	52	3.37e-10	Pr41	141	59	4.39e-10
Te25	125	52	1.16e-10	Pr42	142	59	0.00e+00
Te26	126	52	5.72e-10	Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00	Pr45	145	59	0.00e+00
Te28	128	52	1.29e-10	Nd42	142	60	7.44e-10
Te30	130	52	2.51e-11	Nd43	143	60	1.90e-10
I127	127	53	8.92e-11	Nd44	144	60	6.60e-10
I128	128	53	0.00e+00	Nd45	145	60	1.22e-10
I129	129	53	3.15e-12	Nd46	146	60	5.65e-10
I130	130	53	0.00e+00	Nd47	147	60	0.00e+00
I131	131	53	0.00e+00	Nd48	148	60	1.26e-10
I132	132	53	0.00e+00	Nd49	149	60	0.00e+00
I133	133	53	0.00e+00	Nd50	150	60	8.29e-12
Xe28	128	54	1.69e-10	Pm45	145	61	0.00e+00
Xe29	129	54	9.54e-11	Pm46	146	61	0.00e+00
Xe30	130	54	3.47e-10	Pm47	147	61	0.00e+00
Xe31	131	54	1.15e-10	Pm48	148	61	0.00e+00
Xe32	132	54	7.09e-10	Pm49	149	61	0.00e+00

Pm50	150	61	0.00e+00		Ho65	165	67	5.28e-11
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	1.33e-13		Er64	164	68	2.26e-11
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	7.69e-11
Sm47	147	62	6.58e-11		Er67	167	68	3.71e-11
Sm48	148	62	1.29e-10		Er68	168	68	1.43e-10
Sm49	149	62	2.94e-11		Er69	169	68	0.00e+00
Sm50	150	62	1.22e-10		Er70	170	68	8.15e-11
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	1.08e-10		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	3.03e-11
Sm54	154	62	6.03e-11		Tm70	170	69	0.00e+00
Eu51	151	63	1.84e-11		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00
Eu53	153	63	2.23e-11		Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00		Yb70	170	70	4.25e-11
Eu55	155	63	0.00e+00		Yb71	171	70	6.57e-11
Eu56	156	63	0.00e+00		Yb72	172	70	1.57e-10
Eu57	157	63	0.00e+00		Yb73	173	70	7.34e-11
Gd52	152	64	1.41e-12		Yb74	174	70	3.38e-10
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00
Gd54	154	64	2.69e-11		Yb76	176	70	1.02e-10
Gd55	155	64	3.13e-11		Yb77	177	70	0.00e+00
Gd56	156	64	9.45e-11		Lu75	175	71	4.74e-11
Gd57	157	64	4.42e-11		Lu76	176	71	8.07e-12
Gd58	158	64	1.66e-10		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	6.00e-11
Gd60	160	64	5.11e-11		Hf77	177	72	4.35e-11
Tb59	159	65	3.96e-11		Hf78	178	72	1.89e-10
Tb60	160	65	0.00e+00		Hf79	179	72	6.56e-11
Tb61	161	65	0.00e+00		Hf80	180	72	3.45e-10
Dy60	160	66	5.44e-11		Hf81	181	72	0.00e+00
Dy61	161	66	3.19e-11		Hf82	182	72	4.16e-11
Dy62	162	66	1.28e-10		Hf83	183	72	0.00e+00
Dy63	163	66	4.14e-11		Hf84	184	72	0.00e+00
Dy64	164	66	1.91e-10		Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00		Ta80	180	73	0.00e+00
Dy66	166	66	0.00e+00		Ta81	181	73	7.32e-11
Ho63	163	67	1.17e-13		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta83	183	73	0.00e+00

Isotope			
Ta84	184	73	0.00e+00
W180	180	74	0.00e+00
W181	181	74	0.00e+00
W182	182	74	1.25e-10
W183	183	74	9.07e-11
W184	184	74	2.27e-10
W185	185	74	0.00e+00
W186	186	74	1.20e-10
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	4.55e-11
Re86	186	75	0.00e+00
Re87	187	75	3.26e-11
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	7.31e-11
Os87	187	76	1.96e-11
Os88	188	76	1.99e-10
Os89	189	76	4.51e-11
Os90	190	76	2.28e-10
Os91	191	76	0.00e+00
Os92	192	76	1.68e-10
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	4.89e-11
Ir92	192	77	0.00e+00
Ir93	193	77	6.99e-11
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	5.90e-11
Pt93	193	78	0.00e+00
Pt94	194	78	3.06e-10
Pt95	195	78	1.18e-10
Pt96	196	78	3.47e-10
Pt97	197	78	0.00e+00
Pt98	198	78	6.36e-11
Au97	197	79	1.02e-10
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	2.64e-10
Hg99	199	80	1.36e-10

Isotope			
Hg00	200	80	4.41e-10
Hg01	201	80	1.89e-10
Hg02	202	80	7.82e-10
Hg03	203	80	0.00e+00
Hg04	204	80	8.02e-11
Tl03	203	81	3.79e-10
Tl04	204	81	0.00e+00
Tl05	205	81	7.30e-10
Pb04	204	82	3.99e-10
Pb05	205	82	2.04e-11
Pb06	206	82	5.96e-09
Pb07	207	82	8.09e-09
Pb08	208	82	1.76e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	2.87e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_⊙$ = 2.00; Z = 0.000100 [α/Fe]=0.5; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_⊙$]
H	1	1	9.02e-01
He4	4	2	3.90e-01
C12	12	6	1.53e-02
C13	13	6	9.44e-07
C14	14	6	1.03e-08
N14	14	7	4.42e-05
N15	15	7	1.30e-08
O16	16	8	5.53e-04
O17	17	8	2.97e-06
O18	18	8	7.88e-08
F18	18	9	0.00e+00
F19	19	9	1.20e-06
Ne20	20	10	4.00e-05
Ne21	21	10	1.07e-06
Ne22	22	10	1.11e-03

Na22	22	11	0.00e+00		Ca45	45	20	0.00e+00
Na23	23	11	1.01e-05		Ca46	46	20	4.23e-10
Na24	24	11	0.00e+00		Ca47	47	20	0.00e+00
Mg24	24	12	3.24e-05		Ca48	48	20	1.41e-09
Mg25	25	12	2.12e-05		Sc45	45	21	9.26e-10
Mg26	26	12	1.87e-05		Sc46	46	21	0.00e+00
Al26	26	13	2.38e-08		Sc47	47	21	0.00e+00
Al27	27	13	1.88e-06		Sc48	48	21	0.00e+00
Si28	28	14	2.21e-05		Sc49	49	21	0.00e+00
Si29	29	14	4.87e-07		Ti46	46	22	2.57e-09
Si30	30	14	4.46e-07		Ti47	47	22	2.22e-09
Si31	31	14	0.00e+00		Ti48	48	22	2.13e-08
Si32	32	14	0.00e+00		Ti49	49	22	2.28e-09
P31	31	15	1.78e-07		Ti50	50	22	4.25e-09
P32	32	15	0.00e+00		V50	50	23	8.89e-12
P33	33	15	0.00e+00		V51	51	23	3.83e-09
S32	32	16	1.11e-05		Cr50	50	24	7.07e-09
S33	33	16	4.02e-08		Cr51	51	24	0.00e+00
S34	34	16	2.44e-07		Cr52	52	24	1.47e-07
S35	35	16	0.00e+00		Cr53	53	24	1.71e-08
S36	36	16	3.70e-09		Cr54	54	24	7.84e-09
Cl35	35	17	3.60e-08		Mn55	55	25	1.28e-07
Cl36	36	17	4.35e-11		Mn56	56	25	0.00e+00
Cl37	37	17	1.99e-08		Fe54	54	26	6.82e-07
Ar36	36	18	2.50e-06		Fe55	55	26	0.00e+00
Ar37	37	18	0.00e+00		Fe56	56	26	1.13e-05
Ar38	38	18	1.83e-07		Fe57	57	26	3.39e-07
Ar39	39	18	2.48e-12		Fe58	58	26	2.08e-07
Ar40	40	18	2.42e-09		Fe59	59	26	0.00e+00
Ar41	41	18	0.00e+00		Fe60	60	26	2.68e-08
Ar42	42	18	0.00e+00		Co59	59	27	8.50e-08
K39	39	19	3.79e-08		Co60	60	27	0.00e+00
K40	40	19	3.24e-10		Ni58	58	28	4.68e-07
K41	41	19	5.17e-09		Ni59	59	28	1.53e-10
K42	42	19	0.00e+00		Ni60	60	28	2.16e-07
K43	43	19	0.00e+00		Ni61	61	28	2.12e-08
Ca40	40	20	1.89e-06		Ni62	62	28	5.51e-08
Ca41	41	20	1.76e-10		Ni63	63	28	1.08e-12
Ca42	42	20	7.24e-09		Ni64	64	28	2.62e-08
Ca43	43	20	1.67e-09		Ni65	65	28	0.00e+00
Ca44	44	20	1.62e-08		Ni66	66	28	0.00e+00

Cu63	63	29	2.09e-08		Kr80	80	36	3.22e-11
Cu64	64	29	0.00e+00		Kr81	81	36	7.95e-13
Cu65	65	29	6.99e-09		Kr82	82	36	4.24e-10
Cu66	66	29	0.00e+00		Kr83	83	36	2.39e-10
Cu67	67	29	0.00e+00		Kr84	84	36	1.45e-09
Zn64	64	30	1.02e-08		Kr85	85	36	0.00e+00
Zn65	65	30	0.00e+00		Kr86	86	36	1.05e-09
Zn66	66	30	9.03e-09		Kr87	87	36	0.00e+00
Zn67	67	30	1.58e-09		Kr88	88	36	0.00e+00
Zn68	68	30	7.77e-09		Rb85	85	37	3.78e-10
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	1.92e-10		Rb87	87	37	5.10e-10
Ga69	69	31	8.96e-10		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	1.87e-10
Ga71	71	31	6.11e-10		Sr87	87	38	1.03e-10
Ga72	72	31	0.00e+00		Sr88	88	38	3.56e-09
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	1.17e-09		Sr90	90	38	0.00e+00
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	1.28e-09		Sr92	92	38	0.00e+00
Ge73	73	32	3.70e-10		Y89	89	39	1.05e-09
Ge74	74	32	1.96e-09		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	2.32e-10		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	2.31e-10		Zr90	90	40	9.29e-10
As76	76	33	0.00e+00		Zr91	91	40	2.91e-10
As77	77	33	0.00e+00		Zr92	92	40	4.95e-10
Se76	76	34	3.80e-10		Zr93	93	40	1.49e-10
Se77	77	34	2.03e-10		Zr94	94	40	6.44e-10
Se78	78	34	9.56e-10		Zr95	95	40	0.00e+00
Se79	79	34	6.89e-11		Zr96	96	40	3.80e-10
Se80	80	34	1.41e-09		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	4.70e-11
Se82	82	34	1.52e-10		Nb94	94	41	0.00e+00
Br79	79	35	1.82e-10		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	2.43e-10		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	9.49e-12
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	6.12e-12

Mo95	95	42	9.33e-11		In13	113	49	2.17e-13
Mo96	96	42	1.38e-10		In15	115	49	2.92e-11
Mo97	97	42	5.90e-11		Sn14	114	50	6.89e-13
Mo98	98	42	1.73e-10		Sn15	115	50	3.57e-13
Mo99	99	42	0.00e+00		Sn16	116	50	1.52e-10
Mo00	100	42	2.75e-11		Sn17	117	50	5.94e-11
Tc97	97	43	0.00e+00		Sn18	118	50	2.80e-10
Tc98	98	43	0.00e+00		Sn19	119	50	8.68e-11
Tc99	99	43	8.07e-12		Sn20	120	50	4.76e-10
Ru96	96	44	2.38e-12		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	1.88e-10
Ru98	98	44	8.21e-13		Sn23	123	50	0.00e+00
Ru99	99	44	1.90e-11		Sn24	124	50	3.48e-11
Ru00	100	44	7.15e-11		Sb21	121	51	4.05e-11
Ru01	101	44	2.39e-11		Sb22	122	51	0.00e+00
Ru02	102	44	1.10e-10		Sb23	123	51	2.66e-11
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	2.47e-11		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	5.27e-11
Ru06	106	44	0.00e+00		Te23	123	52	1.75e-11
Rh03	103	45	2.67e-11		Te24	124	52	1.24e-10
Rh05	105	45	0.00e+00		Te25	125	52	4.97e-11
Pd04	104	46	4.95e-11		Te26	126	52	2.22e-10
Pd05	105	46	2.22e-11		Te27	127	52	0.00e+00
Pd06	106	46	7.23e-11		Te28	128	52	9.02e-11
Pd07	107	46	1.17e-11		Te30	130	52	5.28e-11
Pd08	108	46	8.69e-11		I127	127	53	5.71e-11
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	2.16e-11		I129	129	53	1.29e-12
Ag07	107	47	7.21e-12		I130	130	53	0.00e+00
Ag09	109	47	2.86e-11		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	3.79e-13		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	6.10e-11
Cd10	110	48	6.27e-11		Xe29	129	54	7.22e-11
Cd11	111	48	2.79e-11		Xe30	130	54	1.24e-10
Cd12	112	48	9.36e-11		Xe31	131	54	7.06e-11
Cd13	113	48	2.96e-11		Xe32	132	54	2.77e-10
Cd14	114	48	1.31e-10		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	1.95e-10
Cd16	116	48	5.27e-11		Xe35	135	54	0.00e+00

Xe36	136	54	3.16e-11		Sm45	145	62	0.00e+00
Cs33	133	55	4.58e-11		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	2.73e-11
Cs35	135	55	4.47e-11		Sm48	148	62	5.06e-11
Cs36	136	55	0.00e+00		Sm49	149	62	1.28e-11
Cs37	137	55	0.00e+00		Sm50	150	62	4.89e-11
Ba34	134	56	6.63e-11		Sm51	151	62	0.00e+00
Ba35	135	56	3.19e-11		Sm52	152	62	4.56e-11
Ba36	136	56	2.30e-10		Sm53	153	62	0.00e+00
Ba37	137	56	3.75e-10		Sm54	154	62	2.81e-11
Ba38	138	56	3.89e-09		Eu51	151	63	8.75e-12
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	1.05e-11
La39	139	57	4.87e-10		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	1.34e-09		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	2.85e-10		Gd52	152	64	5.75e-13
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	1.09e-11
Pr41	141	59	1.72e-10		Gd55	155	64	1.44e-11
Pr42	142	59	0.00e+00		Gd56	156	64	4.08e-11
Pr43	143	59	0.00e+00		Gd57	157	64	1.97e-11
Pr45	145	59	0.00e+00		Gd58	158	64	7.02e-11
Nd42	142	60	2.65e-10		Gd59	159	64	0.00e+00
Nd43	143	60	7.79e-11		Gd60	160	64	2.55e-11
Nd44	144	60	2.71e-10		Tb59	159	65	1.81e-11
Nd45	145	60	5.10e-11		Tb60	160	65	0.00e+00
Nd46	146	60	2.28e-10		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	2.24e-11
Nd48	148	60	5.41e-11		Dy61	161	66	1.56e-11
Nd49	149	60	0.00e+00		Dy62	162	66	5.64e-11
Nd50	150	60	5.55e-12		Dy63	163	66	2.04e-11
Pm45	145	61	0.00e+00		Dy64	164	66	8.44e-11
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	0.00e+00
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	2.49e-11
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	2.81e-13		Er64	164	68	9.36e-12

Er65	165	68	0.00e+00		W182	182	74	5.29e-11
Er66	166	68	3.43e-11		W183	183	74	3.92e-11
Er67	167	68	1.73e-11		W184	184	74	9.70e-11
Er68	168	68	6.18e-11		W185	185	74	0.00e+00
Er69	169	68	0.00e+00		W186	186	74	5.26e-11
Er70	170	68	3.74e-11		W187	187	74	0.00e+00
Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	1.99e-11
Tm69	169	69	1.40e-11		Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00		Re87	187	75	1.50e-11
Tm71	171	69	0.00e+00		Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00		Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00		Os86	186	76	3.04e-11
Yb70	170	70	1.80e-11		Os87	187	76	8.64e-12
Yb71	171	70	2.93e-11		Os88	188	76	8.79e-11
Yb72	172	70	6.80e-11		Os89	189	76	2.33e-11
Yb73	173	70	3.24e-11		Os90	190	76	1.04e-10
Yb74	174	70	1.45e-10		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	8.44e-11
Yb76	176	70	4.77e-11		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	2.13e-11		Ir91	191	77	2.99e-11
Lu76	176	71	3.44e-12		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	4.53e-11
Hf76	176	72	2.55e-11		Ir94	194	77	0.00e+00
Hf77	177	72	1.97e-11		Ir95	195	77	0.00e+00
Hf78	178	72	8.18e-11		Pt92	192	78	2.50e-11
Hf79	179	72	2.87e-11		Pt93	193	78	0.00e+00
Hf80	180	72	1.47e-10		Pt94	194	78	1.51e-10
Hf81	181	72	0.00e+00		Pt95	195	78	6.80e-11
Hf82	182	72	1.99e-11		Pt96	196	78	1.59e-10
Hf83	183	72	0.00e+00		Pt97	197	78	0.00e+00
Hf84	184	72	0.00e+00		Pt98	198	78	3.39e-11
Ta79	179	73	0.00e+00		Au97	197	79	5.06e-11
Ta80	180	73	0.00e+00		Au98	198	79	0.00e+00
Ta81	181	73	3.17e-11		Au99	199	79	0.00e+00
Ta82	182	73	0.00e+00		Hg98	198	80	1.09e-10
Ta83	183	73	0.00e+00		Hg99	199	80	5.93e-11
Ta84	184	73	0.00e+00		Hg00	200	80	1.85e-10
W180	180	74	0.00e+00		Hg01	201	80	7.91e-11
W181	181	74	0.00e+00		Hg02	202	80	3.20e-10

Isotope	A	Z	YIELD
Hg03	203	80	0.00e+00
Hg04	204	80	4.26e-11
Tl03	203	81	1.55e-10
Tl04	204	81	0.00e+00
Tl05	205	81	3.09e-10
Pb04	204	82	1.57e-10
Pb05	205	82	1.11e-11
Pb06	206	82	2.93e-09
Pb07	207	82	3.89e-09
Pb08	208	82	1.19e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	2.16e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 2.00; Z = 0.000100 [α/Fe]=0.5; IRV = 30 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	8.93e-01
He4	4	2	3.83e-01
C12	12	6	1.50e-02
C13	13	6	8.83e-07
C14	14	6	8.85e-09
N14	14	7	4.15e-05
N15	15	7	1.38e-08
O16	16	8	5.83e-04
O17	17	8	2.87e-06
O18	18	8	7.82e-08
F18	18	9	0.00e+00
F19	19	9	1.17e-06
Ne20	20	10	3.91e-05
Ne21	21	10	1.03e-06
Ne22	22	10	1.05e-03
Na22	22	11	0.00e+00
Na23	23	11	9.43e-06
Na24	24	11	0.00e+00
Mg24	24	12	3.11e-05
Mg25	25	12	2.03e-05
Mg26	26	12	1.76e-05
Al26	26	13	2.08e-08
Al27	27	13	1.77e-06
Si28	28	14	2.17e-05
Si29	29	14	4.73e-07
Si30	30	14	4.30e-07
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	1.65e-07
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	1.09e-05
S33	33	16	3.91e-08
S34	34	16	2.33e-07
S35	35	16	0.00e+00
S36	36	16	3.16e-09
Cl35	35	17	3.55e-08
Cl36	36	17	4.23e-11
Cl37	37	17	2.26e-08
Ar36	36	18	2.47e-06
Ar37	37	18	0.00e+00
Ar38	38	18	1.81e-07
Ar39	39	18	3.13e-12
Ar40	40	18	2.53e-09
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	3.76e-08
K40	40	19	3.50e-10
K41	41	19	5.09e-09
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	1.86e-06
Ca41	41	20	1.67e-10
Ca42	42	20	7.16e-09
Ca43	43	20	1.66e-09
Ca44	44	20	1.63e-08
Ca45	45	20	0.00e+00
Ca46	46	20	4.34e-10
Ca47	47	20	0.00e+00

Ca48	48	20	1.39e-09
Sc45	45	21	9.63e-10
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	2.63e-09
Ti47	47	22	2.24e-09
Ti48	48	22	2.12e-08
Ti49	49	22	2.36e-09
Ti50	50	22	5.28e-09
V50	50	23	8.80e-12
V51	51	23	3.85e-09
Cr50	50	24	7.00e-09
Cr51	51	24	0.00e+00
Cr52	52	24	1.45e-07
Cr53	53	24	1.69e-08
Cr54	54	24	7.78e-09
Mn55	55	25	1.26e-07
Mn56	56	25	0.00e+00
Fe54	54	26	6.75e-07
Fe55	55	26	0.00e+00
Fe56	56	26	1.12e-05
Fe57	57	26	3.31e-07
Fe58	58	26	1.96e-07
Fe59	59	26	0.00e+00
Fe60	60	26	2.56e-08
Co59	59	27	8.13e-08
Co60	60	27	0.00e+00
Ni58	58	28	4.63e-07
Ni59	59	28	1.36e-10
Ni60	60	28	2.12e-07
Ni61	61	28	2.05e-08
Ni62	62	28	5.32e-08
Ni63	63	28	1.47e-12
Ni64	64	28	2.61e-08
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	2.00e-08
Cu64	64	29	0.00e+00
Cu65	65	29	7.19e-09

Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	1.01e-08
Zn65	65	30	0.00e+00
Zn66	66	30	9.32e-09
Zn67	67	30	1.66e-09
Zn68	68	30	8.50e-09
Zn69	69	30	0.00e+00
Zn70	70	30	1.94e-10
Ga69	69	31	1.01e-09
Ga70	70	31	0.00e+00
Ga71	71	31	7.18e-10
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	1.37e-09
Ge71	71	32	0.00e+00
Ge72	72	32	1.53e-09
Ge73	73	32	4.46e-10
Ge74	74	32	2.49e-09
Ge75	75	32	0.00e+00
Ge76	76	32	2.40e-10
Ge77	77	32	0.00e+00
As75	75	33	2.85e-10
As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	5.05e-10
Se77	77	34	2.53e-10
Se78	78	34	1.30e-09
Se79	79	34	9.03e-11
Se80	80	34	1.84e-09
Se81	81	34	0.00e+00
Se82	82	34	1.57e-10
Br79	79	35	2.35e-10
Br80	80	35	0.00e+00
Br81	81	35	3.20e-10
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	3.63e-11
Kr81	81	36	1.04e-12
Kr82	82	36	6.18e-10

Kr83	83	36	3.12e-10		Mo98	98	42	2.79e-10
Kr84	84	36	2.01e-09		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	3.87e-11
Kr86	86	36	1.41e-09		Tc97	97	43	0.00e+00
Kr87	87	36	0.00e+00		Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00		Tc99	99	43	1.13e-11
Rb85	85	37	5.60e-10		Ru96	96	44	2.36e-12
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	7.24e-10		Ru98	98	44	8.13e-13
Rb88	88	37	0.00e+00		Ru99	99	44	3.03e-11
Sr86	86	38	3.14e-10		Ru00	100	44	1.19e-10
Sr87	87	38	1.84e-10		Ru01	101	44	3.52e-11
Sr88	88	38	6.26e-09		Ru02	102	44	1.81e-10
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	3.44e-11
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	1.80e-09		Rh03	103	45	3.97e-11
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	8.50e-11
Y92	92	39	0.00e+00		Pd05	105	46	3.26e-11
Y93	93	39	0.00e+00		Pd06	106	46	1.19e-10
Zr90	90	40	1.60e-09		Pd07	107	46	2.03e-11
Zr91	91	40	5.01e-10		Pd08	108	46	1.45e-10
Zr92	92	40	8.33e-10		Pd09	109	46	0.00e+00
Zr93	93	40	2.49e-10		Pd10	110	46	3.12e-11
Zr94	94	40	1.07e-09		Ag07	107	47	7.71e-12
Zr95	95	40	0.00e+00		Ag09	109	47	4.54e-11
Zr96	96	40	5.24e-10		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	3.76e-13
Nb93	93	41	7.72e-11		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	1.08e-10
Nb95	95	41	0.00e+00		Cd11	111	48	4.48e-11
Nb96	96	41	0.00e+00		Cd12	112	48	1.58e-10
Nb97	97	41	0.00e+00		Cd13	113	48	4.84e-11
Mo92	92	42	9.39e-12		Cd14	114	48	2.25e-10
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	6.14e-12		Cd16	116	48	7.79e-11
Mo95	95	42	1.48e-10		In13	113	49	2.15e-13
Mo96	96	42	2.29e-10		In15	115	49	4.85e-11
Mo97	97	42	9.28e-11		Sn14	114	50	6.81e-13

Sn15	115	50	3.54e-13		Cs35	135	55	6.74e-11
Sn16	116	50	2.70e-10		Cs36	136	55	0.00e+00
Sn17	117	50	9.99e-11		Cs37	137	55	0.00e+00
Sn18	118	50	4.78e-10		Ba34	134	56	1.20e-10
Sn19	119	50	1.47e-10		Ba35	135	56	5.14e-11
Sn20	120	50	8.07e-10		Ba36	136	56	4.14e-10
Sn21	121	50	0.00e+00		Ba37	137	56	5.81e-10
Sn22	122	50	2.50e-10		Ba38	138	56	6.37e-09
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00
Sn24	124	50	4.02e-11		Ba40	140	56	0.00e+00
Sb21	121	51	6.64e-11		La39	139	57	7.86e-10
Sb22	122	51	0.00e+00		La40	140	57	0.00e+00
Sb23	123	51	3.63e-11		Ce40	140	58	2.22e-09
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	3.50e-10
Te22	122	52	8.99e-11		Ce43	143	58	0.00e+00
Te23	123	52	2.99e-11		Ce44	144	58	0.00e+00
Te24	124	52	2.02e-10		Pr41	141	59	2.70e-10
Te25	125	52	7.54e-11		Pr42	142	59	0.00e+00
Te26	126	52	3.63e-10		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	1.10e-10		Nd42	142	60	4.74e-10
Te30	130	52	5.22e-11		Nd43	143	60	1.18e-10
I127	127	53	7.57e-11		Nd44	144	60	4.06e-10
I128	128	53	0.00e+00		Nd45	145	60	7.60e-11
I129	129	53	1.86e-12		Nd46	146	60	3.49e-10
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	7.81e-11
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	6.31e-12
Xe28	128	54	1.05e-10		Pm45	145	61	0.00e+00
Xe29	129	54	9.06e-11		Pm46	146	61	0.00e+00
Xe30	130	54	2.18e-10		Pm47	147	61	0.00e+00
Xe31	131	54	9.69e-11		Pm48	148	61	0.00e+00
Xe32	132	54	4.66e-10		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	2.47e-10		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	2.78e-13
Xe36	136	54	3.46e-11		Sm45	145	62	0.00e+00
Cs33	133	55	7.30e-11		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	4.12e-11

Sm48	148	62	7.96e-11
Sm49	149	62	1.88e-11
Sm50	150	62	7.49e-11
Sm51	151	62	0.00e+00
Sm52	152	62	6.80e-11
Sm53	153	62	0.00e+00
Sm54	154	62	3.93e-11
Eu51	151	63	1.24e-11
Eu52	152	63	0.00e+00
Eu53	153	63	1.50e-11
Eu54	154	63	0.00e+00
Eu55	155	63	0.00e+00
Eu56	156	63	0.00e+00
Eu57	157	63	0.00e+00
Gd52	152	64	8.72e-13
Gd53	153	64	0.00e+00
Gd54	154	64	1.66e-11
Gd55	155	64	2.06e-11
Gd56	156	64	6.00e-11
Gd57	157	64	2.85e-11
Gd58	158	64	1.04e-10
Gd59	159	64	0.00e+00
Gd60	160	64	3.40e-11
Tb59	159	65	2.59e-11
Tb60	160	65	0.00e+00
Tb61	161	65	0.00e+00
Dy60	160	66	3.35e-11
Dy61	161	66	2.16e-11
Dy62	162	66	8.14e-11
Dy63	163	66	2.82e-11
Dy64	164	66	1.22e-10
Dy65	165	66	0.00e+00
Dy66	166	66	0.00e+00
Ho63	163	67	0.00e+00
Ho64	164	67	0.00e+00
Ho65	165	67	3.48e-11
Ho66	166	67	0.00e+00
Er64	164	68	1.37e-11
Er65	165	68	0.00e+00
Er66	166	68	4.91e-11
Er67	167	68	2.42e-11

Er68	168	68	8.98e-11
Er69	169	68	0.00e+00
Er70	170	68	5.27e-11
Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	1.97e-11
Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00
Tm73	173	69	0.00e+00
Yb70	170	70	2.66e-11
Yb71	171	70	4.20e-11
Yb72	172	70	9.94e-11
Yb73	173	70	4.70e-11
Yb74	174	70	2.16e-10
Yb75	175	70	0.00e+00
Yb76	176	70	6.61e-11
Yb77	177	70	0.00e+00
Lu75	175	71	3.11e-11
Lu76	176	71	5.15e-12
Lu77	177	71	0.00e+00
Hf76	176	72	3.83e-11
Hf77	177	72	2.85e-11
Hf78	178	72	1.21e-10
Hf79	179	72	4.23e-11
Hf80	180	72	2.21e-10
Hf81	181	72	0.00e+00
Hf82	182	72	2.67e-11
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00
Ta81	181	73	4.71e-11
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	0.00e+00
W181	181	74	0.00e+00
W182	182	74	8.03e-11
W183	183	74	5.82e-11
W184	184	74	1.46e-10

Isotope	A	Z	YIELD
W185	185	74	0.00e+00
W186	186	74	7.82e-11
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	2.96e-11
Re86	186	75	0.00e+00
Re87	187	75	2.18e-11
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	4.69e-11
Os87	187	76	1.30e-11
Os88	188	76	1.30e-10
Os89	189	76	3.22e-11
Os90	190	76	1.51e-10
Os91	191	76	0.00e+00
Os92	192	76	1.16e-10
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	3.88e-11
Ir92	192	77	0.00e+00
Ir93	193	77	5.74e-11
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	3.75e-11
Pt93	193	78	0.00e+00
Pt94	194	78	2.06e-10
Pt95	195	78	8.83e-11
Pt96	196	78	2.27e-10
Pt97	197	78	0.00e+00
Pt98	198	78	4.37e-11
Au97	197	79	7.02e-11
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.67e-10
Hg99	199	80	8.83e-11
Hg00	200	80	2.86e-10
Hg01	201	80	1.23e-10
Hg02	202	80	5.07e-10
Hg03	203	80	0.00e+00
Hg04	204	80	5.11e-11
Tl03	203	81	2.44e-10

Isotope	A	Z	YIELD
Tl04	204	81	0.00e+00
Tl05	205	81	4.72e-10
Pb04	204	82	2.58e-10
Pb05	205	82	1.48e-11
Pb06	206	82	3.90e-09
Pb07	207	82	5.27e-09
Pb08	208	82	1.10e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	1.97e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M_α = 2.00; Z = 0.000100 [α/Fe]=0.5; IRV = 60 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [M$_\odot$]
H	1	1	9.02e-01
He4	4	2	3.85e-01
C12	12	6	1.44e-02
C13	13	6	4.00e-06
C14	14	6	8.36e-09
N14	14	7	4.55e-05
N15	15	7	2.81e-08
O16	16	8	6.10e-04
O17	17	8	2.90e-06
O18	18	8	6.97e-07
F18	18	9	0.00e+00
F19	19	9	1.76e-06
Ne20	20	10	4.26e-05
Ne21	21	10	9.69e-07
Ne22	22	10	1.30e-03
Na22	22	11	0.00e+00
Na23	23	11	2.12e-05
Na24	24	11	0.00e+00
Mg24	24	12	4.87e-05
Mg25	25	12	2.40e-05
Mg26	26	12	2.01e-05

Al26	26	13	4.22e-08		Sc47	47	21	0.00e+00
Al27	27	13	3.69e-06		Sc48	48	21	0.00e+00
Si28	28	14	2.25e-05		Sc49	49	21	0.00e+00
Si29	29	14	4.79e-07		Ti46	46	22	2.89e-09
Si30	30	14	3.94e-07		Ti47	47	22	2.32e-09
Si31	31	14	0.00e+00		Ti48	48	22	2.16e-08
Si32	32	14	0.00e+00		Ti49	49	22	2.57e-09
P31	31	15	1.74e-07		Ti50	50	22	6.07e-09
P32	32	15	0.00e+00		V50	50	23	8.91e-12
P33	33	15	0.00e+00		V51	51	23	3.92e-09
S32	32	16	1.11e-05		Cr50	50	24	7.09e-09
S33	33	16	3.96e-08		Cr51	51	24	0.00e+00
S34	34	16	2.20e-07		Cr52	52	24	1.47e-07
S35	35	16	0.00e+00		Cr53	53	24	1.71e-08
S36	36	16	2.66e-09		Cr54	54	24	7.31e-09
Cl35	35	17	3.57e-08		Mn55	55	25	1.29e-07
Cl36	36	17	4.15e-11		Mn56	56	25	0.00e+00
Cl37	37	17	2.52e-08		Fe54	54	26	6.84e-07
Ar36	36	18	2.50e-06		Fe55	55	26	0.00e+00
Ar37	37	18	0.00e+00		Fe56	56	26	1.13e-05
Ar38	38	18	1.79e-07		Fe57	57	26	3.35e-07
Ar39	39	18	2.78e-12		Fe58	58	26	1.70e-07
Ar40	40	18	2.36e-09		Fe59	59	26	0.00e+00
Ar41	41	18	0.00e+00		Fe60	60	26	1.41e-08
Ar42	42	18	0.00e+00		Co59	59	27	7.05e-08
K39	39	19	3.76e-08		Co60	60	27	0.00e+00
K40	40	19	4.71e-10		Ni58	58	28	4.69e-07
K41	41	19	5.12e-09		Ni59	59	28	1.96e-10
K42	42	19	0.00e+00		Ni60	60	28	2.11e-07
K43	43	19	0.00e+00		Ni61	61	28	1.81e-08
Ca40	40	20	1.88e-06		Ni62	62	28	4.70e-08
Ca41	41	20	1.81e-10		Ni63	63	28	1.46e-12
Ca42	42	20	7.13e-09		Ni64	64	28	2.09e-08
Ca43	43	20	1.60e-09		Ni65	65	28	0.00e+00
Ca44	44	20	1.67e-08		Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00		Cu63	63	29	1.58e-08
Ca46	46	20	2.61e-10		Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00		Cu65	65	29	6.92e-09
Ca48	48	20	1.40e-09		Cu66	66	29	0.00e+00
Sc45	45	21	9.12e-10		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	1.06e-08

Zn65	65	30	0.00e+00		Kr86	86	36	1.31e-09
Zn66	66	30	9.54e-09		Kr87	87	36	0.00e+00
Zn67	67	30	1.71e-09		Kr88	88	36	0.00e+00
Zn68	68	30	8.85e-09		Rb85	85	37	7.44e-10
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	1.62e-10		Rb87	87	37	6.57e-10
Ga69	69	31	1.08e-09		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	7.90e-10
Ga71	71	31	8.95e-10		Sr87	87	38	5.48e-10
Ga72	72	31	0.00e+00		Sr88	88	38	1.34e-08
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	1.59e-09		Sr90	90	38	0.00e+00
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	1.90e-09		Sr92	92	38	0.00e+00
Ge73	73	32	5.58e-10		Y89	89	39	3.40e-09
Ge74	74	32	3.28e-09		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	2.05e-10		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	3.66e-10		Zr90	90	40	3.37e-09
As76	76	33	0.00e+00		Zr91	91	40	9.51e-10
As77	77	33	0.00e+00		Zr92	92	40	1.51e-09
Se76	76	34	6.97e-10		Zr93	93	40	4.33e-10
Se77	77	34	3.29e-10		Zr94	94	40	1.97e-09
Se78	78	34	1.87e-09		Zr95	95	40	0.00e+00
Se79	79	34	1.05e-10		Zr96	96	40	4.37e-10
Se80	80	34	2.38e-09		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	1.41e-10
Se82	82	34	1.37e-10		Nb94	94	41	0.00e+00
Br79	79	35	3.35e-10		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	4.28e-10		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	9.50e-12
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	9.46e-12
Kr80	80	36	5.95e-11		Mo95	95	42	2.46e-10
Kr81	81	36	2.54e-12		Mo96	96	42	4.39e-10
Kr82	82	36	1.07e-09		Mo97	97	42	1.57e-10
Kr83	83	36	4.86e-10		Mo98	98	42	5.17e-10
Kr84	84	36	3.10e-09		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	3.69e-11

Tc97	97	43	0.00e+00		Sn18	118	50	9.20e-10
Tc98	98	43	0.00e+00		Sn19	119	50	2.81e-10
Tc99	99	43	1.49e-11		Sn20	120	50	1.50e-09
Ru96	96	44	2.38e-12		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	1.85e-10
Ru98	98	44	8.22e-13		Sn23	123	50	0.00e+00
Ru99	99	44	5.80e-11		Sn24	124	50	2.07e-11
Ru00	100	44	2.41e-10		Sb21	121	51	1.17e-10
Ru01	101	44	6.15e-11		Sb22	122	51	0.00e+00
Ru02	102	44	3.52e-10		Sb23	123	51	3.54e-11
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	3.61e-11		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	1.74e-10
Ru06	106	44	0.00e+00		Te23	123	52	5.99e-11
Rh03	103	45	7.01e-11		Te24	124	52	3.63e-10
Rh05	105	45	0.00e+00		Te25	125	52	1.29e-10
Pd04	104	46	1.78e-10		Te26	126	52	6.84e-10
Pd05	105	46	5.67e-11		Te27	127	52	0.00e+00
Pd06	106	46	2.29e-10		Te28	128	52	1.24e-10
Pd07	107	46	4.05e-11		Te30	130	52	5.29e-11
Pd08	108	46	2.86e-10		I127	127	53	1.19e-10
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	3.39e-11		I129	129	53	2.03e-12
Ag07	107	47	9.30e-12		I130	130	53	0.00e+00
Ag09	109	47	8.68e-11		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	5.05e-13		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	2.07e-10
Cd10	110	48	2.29e-10		Xe29	129	54	1.33e-10
Cd11	111	48	8.54e-11		Xe30	130	54	4.34e-10
Cd12	112	48	3.13e-10		Xe31	131	54	1.60e-10
Cd13	113	48	9.40e-11		Xe32	132	54	9.06e-10
Cd14	114	48	4.54e-10		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	1.91e-10
Cd16	116	48	7.23e-11		Xe35	135	54	0.00e+00
In13	113	49	2.17e-13		Xe36	136	54	2.17e-11
In15	115	49	9.29e-11		Cs33	133	55	1.31e-10
Sn14	114	50	6.90e-13		Cs34	134	55	0.00e+00
Sn15	115	50	3.58e-13		Cs35	135	55	8.67e-11
Sn16	116	50	5.96e-10		Cs36	136	55	0.00e+00
Sn17	117	50	1.94e-10		Cs37	137	55	0.00e+00

Ba34	134	56	2.66e-10		Sm51	151	62	0.00e+00
Ba35	135	56	1.05e-10		Sm52	152	62	7.79e-11
Ba36	136	56	8.71e-10		Sm53	153	62	0.00e+00
Ba37	137	56	8.76e-10		Sm54	154	62	3.32e-11
Ba38	138	56	9.63e-09		Eu51	151	63	1.41e-11
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	1.68e-11
La39	139	57	1.14e-09		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	3.24e-09		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	2.59e-10		Gd52	152	64	1.11e-12
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	2.04e-11
Pr41	141	59	3.50e-10		Gd55	155	64	2.11e-11
Pr42	142	59	0.00e+00		Gd56	156	64	6.49e-11
Pr43	143	59	0.00e+00		Gd57	157	64	3.08e-11
Pr45	145	59	0.00e+00		Gd58	158	64	1.13e-10
Nd42	142	60	7.48e-10		Gd59	159	64	0.00e+00
Nd43	143	60	1.42e-10		Gd60	160	64	2.66e-11
Nd44	144	60	4.59e-10		Tb59	159	65	2.79e-11
Nd45	145	60	8.62e-11		Tb60	160	65	0.00e+00
Nd46	146	60	4.08e-10		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	3.75e-11
Nd48	148	60	6.79e-11		Dy61	161	66	2.23e-11
Nd49	149	60	0.00e+00		Dy62	162	66	8.61e-11
Nd50	150	60	5.02e-12		Dy63	163	66	2.91e-11
Pm45	145	61	0.00e+00		Dy64	164	66	1.34e-10
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	0.00e+00
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	3.88e-11
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	2.81e-13		Er64	164	68	1.58e-11
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	6.28e-11
Sm47	147	62	4.74e-11		Er67	167	68	2.91e-11
Sm48	148	62	1.09e-10		Er68	168	68	1.11e-10
Sm49	149	62	2.12e-11		Er69	169	68	0.00e+00
Sm50	150	62	8.74e-11		Er70	170	68	4.60e-11

Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	3.39e-11
Tm69	169	69	2.26e-11		Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00		Re87	187	75	2.29e-11
Tm71	171	69	0.00e+00		Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00		Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00		Os86	186	76	6.48e-11
Yb70	170	70	3.44e-11		Os87	187	76	1.84e-11
Yb71	171	70	4.82e-11		Os88	188	76	1.48e-10
Yb72	172	70	1.26e-10		Os89	189	76	3.56e-11
Yb73	173	70	5.96e-11		Os90	190	76	1.64e-10
Yb74	174	70	2.67e-10		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	1.03e-10
Yb76	176	70	5.16e-11		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	3.73e-11		Ir91	191	77	4.13e-11
Lu76	176	71	6.35e-12		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	5.76e-11
Hf76	176	72	4.77e-11		Ir94	194	77	0.00e+00
Hf77	177	72	3.23e-11		Ir95	195	77	0.00e+00
Hf78	178	72	1.39e-10		Pt92	192	78	4.63e-11
Hf79	179	72	4.87e-11		Pt93	193	78	0.00e+00
Hf80	180	72	2.59e-10		Pt94	194	78	2.04e-10
Hf81	181	72	0.00e+00		Pt95	195	78	9.08e-11
Hf82	182	72	2.14e-11		Pt96	196	78	2.46e-10
Hf83	183	72	0.00e+00		Pt97	197	78	0.00e+00
Hf84	184	72	0.00e+00		Pt98	198	78	3.10e-11
Ta79	179	73	0.00e+00		Au97	197	79	7.63e-11
Ta80	180	73	0.00e+00		Au98	198	79	0.00e+00
Ta81	181	73	5.43e-11		Au99	199	79	0.00e+00
Ta82	182	73	0.00e+00		Hg98	198	80	2.00e-10
Ta83	183	73	0.00e+00		Hg99	199	80	9.97e-11
Ta84	184	73	0.00e+00		Hg00	200	80	3.28e-10
W180	180	74	0.00e+00		Hg01	201	80	1.42e-10
W181	181	74	0.00e+00		Hg02	202	80	5.86e-10
W182	182	74	1.02e-10		Hg03	203	80	0.00e+00
W183	183	74	6.67e-11		Hg04	204	80	3.06e-11
W184	184	74	1.77e-10		Tl03	203	81	2.77e-10
W185	185	74	0.00e+00		Tl04	204	81	0.00e+00
W186	186	74	8.34e-11		Tl05	205	81	5.49e-10
W187	187	74	0.00e+00		Pb04	204	82	3.14e-10

Isotope	A	Z	YIELD
Pb05	205	82	1.68e-11
Pb06	206	82	3.59e-09
Pb07	207	82	4.46e-09
Pb08	208	82	6.19e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	1.07e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M_a = 2.00; Z = 0.000300 [α/Fe]=0.5; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [M_a]
H	1	1	9.22e-01
He4	4	2	3.81e-01
C12	12	6	1.31e-02
C13	13	6	2.02e-06
C14	14	6	1.73e-09
N14	14	7	8.42e-05
N15	15	7	3.61e-08
O16	16	8	8.40e-04
O17	17	8	7.67e-06
O18	18	8	2.40e-07
F18	18	9	0.00e+00
F19	19	9	1.72e-06
Ne20	20	10	9.99e-05
Ne21	21	10	3.47e-07
Ne22	22	10	8.47e-04
Na22	22	11	0.00e+00
Na23	23	11	7.86e-06
Na24	24	11	0.00e+00
Mg24	24	12	6.11e-05
Mg25	25	12	1.27e-05
Mg26	26	12	1.17e-05
Al26	26	13	3.49e-08
Al27	27	13	3.16e-06
Si28	28	14	6.32e-05

Isotope	A	Z	YIELD
Si29	29	14	1.19e-06
Si30	30	14	9.69e-07
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	3.25e-07
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	3.28e-05
S33	33	16	1.13e-07
S34	34	16	6.17e-07
S35	35	16	0.00e+00
S36	36	16	6.64e-09
Cl35	35	17	1.06e-07
Cl36	36	17	1.07e-10
Cl37	37	17	5.40e-08
Ar36	36	18	7.45e-06
Ar37	37	18	0.00e+00
Ar38	38	18	5.07e-07
Ar39	39	18	4.69e-12
Ar40	40	18	3.35e-09
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	1.05e-07
K40	40	19	8.02e-10
K41	41	19	1.36e-08
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	5.61e-06
Ca41	41	20	5.20e-10
Ca42	42	20	1.81e-08
Ca43	43	20	3.92e-09
Ca44	44	20	4.49e-08
Ca45	45	20	0.00e+00
Ca46	46	20	3.95e-10
Ca47	47	20	0.00e+00
Ca48	48	20	4.15e-09
Sc45	45	21	1.88e-09
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00

Ti46	46	22	7.35e-09		Zn68	68	30	1.64e-08
Ti47	47	22	6.46e-09		Zn69	69	30	0.00e+00
Ti48	48	22	6.36e-08		Zn70	70	30	4.37e-10
Ti49	49	22	6.44e-09		Ga69	69	31	1.75e-09
Ti50	50	22	1.07e-08		Ga70	70	31	0.00e+00
V50	50	23	2.66e-11		Ga71	71	31	1.22e-09
V51	51	23	1.13e-08		Ga72	72	31	0.00e+00
Cr50	50	24	2.11e-08		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	2.24e-09
Cr52	52	24	4.37e-07		Ge71	71	32	0.00e+00
Cr53	53	24	5.07e-08		Ge72	72	32	2.73e-09
Cr54	54	24	1.94e-08		Ge73	73	32	7.90e-10
Mn55	55	25	3.86e-07		Ge74	74	32	4.15e-09
Mn56	56	25	0.00e+00		Ge75	75	32	0.00e+00
Fe54	54	26	2.04e-06		Ge76	76	32	5.50e-10
Fe55	55	26	0.00e+00		Ge77	77	32	0.00e+00
Fe56	56	26	3.38e-05		As75	75	33	5.17e-10
Fe57	57	26	9.84e-07		As76	76	33	0.00e+00
Fe58	58	26	4.16e-07		As77	77	33	0.00e+00
Fe59	59	26	0.00e+00		Se76	76	34	7.62e-10
Fe60	60	26	1.99e-08		Se77	77	34	4.54e-10
Co59	59	27	1.77e-07		Se78	78	34	1.97e-09
Co60	60	27	0.00e+00		Se79	79	34	1.10e-10
Ni58	58	28	1.40e-06		Se80	80	34	3.24e-09
Ni59	59	28	8.50e-10		Se81	81	34	0.00e+00
Ni60	60	28	6.09e-07		Se82	82	34	3.65e-10
Ni61	61	28	4.53e-08		Br79	79	35	4.52e-10
Ni62	62	28	1.19e-07		Br80	80	35	0.00e+00
Ni63	63	28	1.92e-12		Br81	81	35	5.59e-10
Ni64	64	28	3.87e-08		Br82	82	35	0.00e+00
Ni65	65	28	0.00e+00		Br83	83	35	0.00e+00
Ni66	66	28	0.00e+00		Br84	84	35	0.00e+00
Cu63	63	29	3.45e-08		Kr80	80	36	8.92e-11
Cu64	64	29	0.00e+00		Kr81	81	36	1.56e-12
Cu65	65	29	1.26e-08		Kr82	82	36	9.52e-10
Cu66	66	29	0.00e+00		Kr83	83	36	6.01e-10
Cu67	67	29	0.00e+00		Kr84	84	36	3.51e-09
Zn64	64	30	3.02e-08		Kr85	85	36	0.00e+00
Zn65	65	30	0.00e+00		Kr86	86	36	1.86e-09
Zn66	66	30	2.12e-08		Kr87	87	36	0.00e+00
Zn67	67	30	3.45e-09		Kr88	88	36	0.00e+00

Rb85	85	37	7.90e-10		Ru96	96	44	7.11e-12
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	7.74e-10		Ru98	98	44	2.45e-12
Rb88	88	37	0.00e+00		Ru99	99	44	4.31e-11
Sr86	86	38	4.87e-10		Ru00	100	44	1.55e-10
Sr87	87	38	3.19e-10		Ru01	101	44	5.63e-11
Sr88	88	38	8.86e-09		Ru02	102	44	2.51e-10
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	5.70e-11
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	2.39e-09		Rh03	103	45	6.57e-11
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	1.16e-10
Y92	92	39	0.00e+00		Pd05	105	46	5.61e-11
Y93	93	39	0.00e+00		Pd06	106	46	1.71e-10
Zr90	90	40	2.32e-09		Pd07	107	46	2.65e-11
Zr91	91	40	6.93e-10		Pd08	108	46	2.06e-10
Zr92	92	40	1.12e-09		Pd09	109	46	0.00e+00
Zr93	93	40	3.24e-10		Pd10	110	46	4.66e-11
Zr94	94	40	1.41e-09		Ag07	107	47	2.11e-11
Zr95	95	40	0.00e+00		Ag09	109	47	7.01e-11
Zr96	96	40	4.95e-10		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	1.16e-12
Nb93	93	41	1.09e-10		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	1.52e-10
Nb95	95	41	0.00e+00		Cd11	111	48	6.81e-11
Nb96	96	41	0.00e+00		Cd12	112	48	2.27e-10
Nb97	97	41	0.00e+00		Cd13	113	48	7.32e-11
Mo92	92	42	2.83e-11		Cd14	114	48	3.26e-10
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	1.89e-11		Cd16	116	48	9.95e-11
Mo95	95	42	2.03e-10		In13	113	49	6.47e-13
Mo96	96	42	3.03e-10		In15	115	49	7.36e-11
Mo97	97	42	1.18e-10		Sn14	114	50	2.06e-12
Mo98	98	42	3.56e-10		Sn15	115	50	1.07e-12
Mo99	99	42	0.00e+00		Sn16	116	50	4.08e-10
Mo00	100	42	5.56e-11		Sn17	117	50	1.52e-10
Tc97	97	43	0.00e+00		Sn18	118	50	7.07e-10
Tc98	98	43	0.00e+00		Sn19	119	50	2.20e-10
Tc99	99	43	1.58e-11		Sn20	120	50	1.18e-09

Sn21	121	50	0.00e+00		Ba37	137	56	7.77e-10
Sn22	122	50	2.44e-10		Ba38	138	56	1.02e-08
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00
Sn24	124	50	3.40e-11		Ba40	140	56	0.00e+00
Sb21	121	51	1.01e-10		La39	139	57	1.25e-09
Sb22	122	51	0.00e+00		La40	140	57	0.00e+00
Sb23	123	51	4.82e-11		Ce40	140	58	3.90e-09
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	4.08e-10
Te22	122	52	1.32e-10		Ce43	143	58	0.00e+00
Te23	123	52	4.41e-11		Ce44	144	58	0.00e+00
Te24	124	52	2.78e-10		Pr41	141	59	4.61e-10
Te25	125	52	1.16e-10		Pr42	142	59	0.00e+00
Te26	126	52	5.40e-10		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	2.23e-10		Nd42	142	60	8.78e-10
Te30	130	52	1.58e-10		Nd43	143	60	1.88e-10
I127	127	53	1.54e-10		Nd44	144	60	6.13e-10
I128	128	53	0.00e+00		Nd45	145	60	1.17e-10
I129	129	53	2.41e-12		Nd46	146	60	5.45e-10
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	1.20e-10
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	1.19e-11
Xe28	128	54	1.53e-10		Pm45	145	61	0.00e+00
Xe29	129	54	2.01e-10		Pm46	146	61	0.00e+00
Xe30	130	54	3.26e-10		Pm47	147	61	0.00e+00
Xe31	131	54	2.00e-10		Pm48	148	61	0.00e+00
Xe32	132	54	7.83e-10		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	2.81e-10		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	8.37e-13
Xe36	136	54	5.07e-11		Sm45	145	62	0.00e+00
Cs33	133	55	1.29e-10		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	6.57e-11
Cs35	135	55	9.41e-11		Sm48	148	62	1.29e-10
Cs36	136	55	0.00e+00		Sm49	149	62	3.11e-11
Cs37	137	55	0.00e+00		Sm50	150	62	1.18e-10
Ba34	134	56	1.93e-10		Sm51	151	62	0.00e+00
Ba35	135	56	9.10e-11		Sm52	152	62	1.10e-10
Ba36	136	56	6.58e-10		Sm53	153	62	0.00e+00

Sm54	154	62	6.18e-11		Tm70	170	69	0.00e+00
Eu51	151	63	2.18e-11		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00
Eu53	153	63	2.61e-11		Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00		Yb70	170	70	4.08e-11
Eu55	155	63	0.00e+00		Yb71	171	70	6.54e-11
Eu56	156	63	0.00e+00		Yb72	172	70	1.56e-10
Eu57	157	63	0.00e+00		Yb73	173	70	7.41e-11
Gd52	152	64	1.42e-12		Yb74	174	70	3.35e-10
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00
Gd54	154	64	2.67e-11		Yb76	176	70	9.69e-11
Gd55	155	64	3.43e-11		Yb77	177	70	0.00e+00
Gd56	156	64	9.63e-11		Lu75	175	71	4.96e-11
Gd57	157	64	4.67e-11		Lu76	176	71	2.41e-11
Gd58	158	64	1.62e-10		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	2.05e-11
Gd60	160	64	5.25e-11		Hf77	177	72	4.74e-11
Tb59	159	65	4.26e-11		Hf78	178	72	1.92e-10
Tb60	160	65	0.00e+00		Hf79	179	72	6.72e-11
Tb61	161	65	0.00e+00		Hf80	180	72	3.46e-10
Dy60	160	66	5.14e-11		Hf81	181	72	0.00e+00
Dy61	161	66	3.65e-11		Hf82	182	72	3.96e-11
Dy62	162	66	1.27e-10		Hf83	183	72	0.00e+00
Dy63	163	66	4.75e-11		Hf84	184	72	0.00e+00
Dy64	164	66	1.90e-10		Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00		Ta80	180	73	0.00e+00
Dy66	166	66	0.00e+00		Ta81	181	73	7.41e-11
Ho63	163	67	1.26e-13		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta83	183	73	0.00e+00
Ho65	165	67	5.76e-11		Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00		W180	180	74	0.00e+00
Er64	164	68	2.08e-11		W181	181	74	0.00e+00
Er65	165	68	0.00e+00		W182	182	74	1.28e-10
Er66	166	68	7.93e-11		W183	183	74	9.14e-11
Er67	167	68	3.96e-11		W184	184	74	2.33e-10
Er68	168	68	1.38e-10		W185	185	74	0.00e+00
Er69	169	68	0.00e+00		W186	186	74	1.27e-10
Er70	170	68	7.86e-11		W187	187	74	0.00e+00
Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	4.76e-11
Tm69	169	69	3.13e-11		Re86	186	75	0.00e+00

Isotope	A	Z	
Re87	187	75	3.61e-11
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	7.66e-11
Os87	187	76	2.22e-11
Os88	188	76	2.08e-10
Os89	189	76	5.74e-11
Os90	190	76	2.43e-10
Os91	191	76	0.00e+00
Os92	192	76	1.91e-10
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	7.59e-11
Ir92	192	77	0.00e+00
Ir93	193	77	1.15e-10
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	5.89e-11
Pt93	193	78	0.00e+00
Pt94	194	78	3.31e-10
Pt95	195	78	1.63e-10
Pt96	196	78	3.64e-10
Pt97	197	78	0.00e+00
Pt98	198	78	6.71e-11
Au97	197	79	1.20e-10
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	2.63e-10
Hg99	199	80	1.42e-10
Hg00	200	80	4.70e-10
Hg01	201	80	2.08e-10
Hg02	202	80	8.82e-10
Hg03	203	80	0.00e+00
Hg04	204	80	6.26e-11
Tl03	203	81	4.27e-10
Tl04	204	81	0.00e+00
Tl05	205	81	8.49e-10
Pb04	204	82	4.64e-10
Pb05	205	82	3.01e-11
Pb06	206	82	7.09e-09
Pb07	207	82	9.75e-09
Pb08	208	82	2.82e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	3.78e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 2.00; Z = 0.001000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	9.34e-01
He4	4	2	3.79e-01
C12	12	6	1.23e-02
C13	13	6	5.85e-06
C14	14	6	9.03e-10
N14	14	7	2.03e-04
N15	15	7	1.14e-07
O16	16	8	8.60e-04
O17	17	8	7.69e-06
O18	18	8	7.94e-07
F18	18	9	0.00e+00
F19	19	9	1.18e-06
Ne20	20	10	1.05e-04
Ne21	21	10	4.93e-07
Ne22	22	10	7.18e-04
Na22	22	11	0.00e+00
Na23	23	11	9.83e-06
Na24	24	11	0.00e+00
Mg24	24	12	6.20e-05
Mg25	25	12	1.47e-05
Mg26	26	12	1.65e-05
Al26	26	13	2.67e-08
Al27	27	13	6.87e-06
Si28	28	14	6.70e-05
Si29	29	14	3.59e-06
Si30	30	14	2.66e-06
Si31	31	14	0.00e+00

Si32	32	14	0.00e+00		Ti49	49	22	2.05e-08
P31	31	15	7.73e-07		Ti50	50	22	2.75e-08
P32	32	15	0.00e+00		V50	50	23	8.99e-11
P33	33	15	0.00e+00		V51	51	23	3.79e-08
S32	32	16	3.49e-05		Cr50	50	24	7.15e-08
S33	33	16	3.05e-07		Cr51	51	24	0.00e+00
S34	34	16	1.77e-06		Cr52	52	24	1.47e-06
S35	35	16	0.00e+00		Cr53	53	24	1.70e-07
S36	36	16	1.51e-08		Cr54	54	24	5.94e-08
Cl35	35	17	3.55e-07		Mn55	55	25	1.30e-06
Cl36	36	17	2.65e-10		Mn56	56	25	0.00e+00
Cl37	37	17	1.41e-07		Fe54	54	26	6.91e-06
Ar36	36	18	7.93e-06		Fe55	55	26	5.13e-13
Ar37	37	18	0.00e+00		Fe56	56	26	1.14e-04
Ar38	38	18	1.58e-06		Fe57	57	26	3.21e-06
Ar39	39	18	6.29e-12		Fe58	58	26	1.14e-06
Ar40	40	18	1.17e-08		Fe59	59	26	0.00e+00
Ar41	41	18	0.00e+00		Fe60	60	26	9.72e-08
Ar42	42	18	0.00e+00		Co59	59	27	5.18e-07
K39	39	19	3.41e-07		Co60	60	27	3.41e-13
K40	40	19	2.06e-09		Ni58	58	28	4.74e-06
K41	41	19	3.21e-08		Ni59	59	28	3.03e-09
K42	42	19	0.00e+00		Ni60	60	28	2.05e-06
K43	43	19	0.00e+00		Ni61	61	28	1.42e-07
Ca40	40	20	5.96e-06		Ni62	62	28	3.72e-07
Ca41	41	20	5.18e-10		Ni63	63	28	6.76e-12
Ca42	42	20	4.78e-08		Ni64	64	28	1.69e-07
Ca43	43	20	1.03e-08		Ni65	65	28	0.00e+00
Ca44	44	20	1.46e-07		Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00		Cu63	63	29	1.15e-07
Ca46	46	20	1.74e-09		Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00		Cu65	65	29	5.11e-08
Ca48	48	20	1.40e-08		Cu68	66	29	0.00e+00
Sc45	45	21	5.31e-09		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	1.07e-07
Sc47	47	21	0.00e+00		Zn65	65	30	0.00e+00
Sc48	48	21	0.00e+00		Zn66	66	30	8.31e-08
Sc49	49	21	0.00e+00		Zn67	67	30	1.41e-08
Ti46	46	22	2.43e-08		Zn68	68	30	6.67e-08
Ti47	47	22	2.16e-08		Zn69	69	30	0.00e+00
Ti48	48	22	2.14e-07		Zn70	70	30	1.51e-09

Ga69	69	31	7.50e-09
Ga70	70	31	0.00e+00
Ga71	71	31	5.55e-09
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	1.01e-08
Ge71	71	32	0.00e+00
Ge72	72	32	1.18e-08
Ge73	73	32	3.37e-09
Ge74	74	32	1.53e-08
Ge75	75	32	0.00e+00
Ge76	76	32	1.82e-09
Ge77	77	32	0.00e+00
As75	75	33	1.79e-09
As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	3.51e-09
Se77	77	34	1.90e-09
Se78	78	34	6.41e-09
Se79	79	34	5.67e-10
Se80	80	34	1.31e-08
Se81	81	34	0.00e+00
Se82	82	34	1.24e-09
Br79	79	35	1.82e-09
Br80	80	35	0.00e+00
Br81	81	35	2.04e-09
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	3.84e-10
Kr81	81	36	9.49e-12
Kr82	82	36	4.40e-09
Kr83	83	36	2.42e-09
Kr84	84	36	1.40e-08
Kr85	85	36	0.00e+00
Kr86	86	36	6.96e-09
Kr87	87	36	0.00e+00
Kr88	88	36	0.00e+00
Rb85	85	37	3.02e-09
Rb86	86	37	0.00e+00
Rb87	87	37	3.09e-09

Rb88	88	37	0.00e+00
Sr86	86	38	2.31e-09
Sr87	87	38	1.51e-09
Sr88	88	38	3.76e-08
Sr89	89	38	0.00e+00
Sr90	90	38	0.00e+00
Sr91	91	38	0.00e+00
Sr92	92	38	0.00e+00
Y89	89	39	9.63e-09
Y90	90	39	0.00e+00
Y91	91	39	0.00e+00
Y92	92	39	0.00e+00
Y93	93	39	0.00e+00
Zr90	90	40	9.08e-09
Zr91	91	40	2.94e-09
Zr92	92	40	4.91e-09
Zr93	93	40	1.23e-09
Zr94	94	40	6.02e-09
Zr95	95	40	0.00e+00
Zr96	96	40	2.18e-09
Zr97	97	40	0.00e+00
Nb93	93	41	4.18e-10
Nb94	94	41	0.00e+00
Nb95	95	41	0.00e+00
Nb96	96	41	0.00e+00
Nb97	97	41	0.00e+00
Mo92	92	42	9.58e-11
Mo93	93	42	0.00e+00
Mo94	94	42	6.77e-11
Mo95	95	42	7.85e-10
Mo96	96	42	1.16e-09
Mo97	97	42	4.48e-10
Mo98	98	42	1.41e-09
Mo99	99	42	0.00e+00
Mo00	100	42	2.14e-10
Tc97	97	43	0.00e+00
Tc98	98	43	0.00e+00
Tc99	99	43	5.24e-11
Ru96	96	44	2.40e-11
Ru97	97	44	0.00e+00
Ru98	98	44	8.29e-12

Ru99	99	44	1.77e-10		Sn24	124	50	1.49e-10
Ru00	100	44	6.49e-10		Sb21	121	51	4.10e-10
Ru01	101	44	2.21e-10		Sb22	122	51	0.00e+00
Ru02	102	44	8.90e-10		Sb23	123	51	1.91e-10
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	2.19e-10		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	5.36e-10
Ru06	106	44	0.00e+00		Te23	123	52	1.78e-10
Rh03	103	45	2.53e-10		Te24	124	52	1.13e-09
Rh05	105	45	0.00e+00		Te25	125	52	4.56e-10
Pd04	104	46	5.04e-10		Te26	126	52	2.24e-09
Pd05	105	46	2.22e-10		Te27	127	52	0.00e+00
Pd06	106	46	7.26e-10		Te28	128	52	8.22e-10
Pd07	107	46	1.17e-10		Te30	130	52	5.33e-10
Pd08	108	46	8.81e-10		I127	127	53	5.80e-10
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	1.91e-10		I129	129	53	9.53e-12
Ag07	107	47	7.30e-11		I130	130	53	0.00e+00
Ag09	109	47	2.63e-10		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	4.10e-12		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	6.55e-10
Cd10	110	48	6.56e-10		Xe29	129	54	7.36e-10
Cd11	111	48	2.84e-10		Xe30	130	54	1.42e-09
Cd12	112	48	9.77e-10		Xe31	131	54	7.67e-10
Cd13	113	48	3.09e-10		Xe32	132	54	3.31e-09
Cd14	114	48	1.42e-09		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	1.08e-09
Cd16	116	48	4.01e-10		Xe35	135	54	0.00e+00
In13	113	49	2.18e-12		Xe36	136	54	2.17e-10
In15	115	49	3.14e-10		Cs33	133	55	5.35e-10
Sn14	114	50	6.93e-12		Cs34	134	55	0.00e+00
Sn15	115	50	3.60e-12		Cs35	135	55	4.05e-10
Sn16	116	50	1.78e-09		Cs36	136	55	0.00e+00
Sn17	117	50	6.40e-10		Cs37	137	55	0.00e+00
Sn18	118	50	2.97e-09		Ba34	134	56	8.30e-10
Sn19	119	50	8.91e-10		Ba35	135	56	3.70e-10
Sn20	120	50	4.88e-09		Ba36	136	56	2.86e-09
Sn21	121	50	0.00e+00		Ba37	137	56	3.24e-09
Sn22	122	50	9.06e-10		Ba38	138	56	4.24e-08
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00

Ba40	140	56	0.00e+00
La39	139	57	5.34e-09
La40	140	57	0.00e+00
Ce40	140	58	1.67e-08
Ce41	141	58	0.00e+00
Ce42	142	58	1.54e-09
Ce43	143	58	0.00e+00
Ce44	144	58	0.00e+00
Pr41	141	59	1.94e-09
Pr42	142	59	0.00e+00
Pr43	143	59	0.00e+00
Pr45	145	59	0.00e+00
Nd42	142	60	3.76e-09
Nd43	143	60	7.74e-10
Nd44	144	60	2.53e-09
Nd45	145	60	4.83e-10
Nd46	146	60	2.30e-09
Nd47	147	60	0.00e+00
Nd48	148	60	5.01e-10
Nd49	149	60	0.00e+00
Nd50	150	60	4.62e-11
Pm45	145	61	0.00e+00
Pm46	146	61	0.00e+00
Pm47	147	61	0.00e+00
Pm48	148	61	0.00e+00
Pm49	149	61	0.00e+00
Pm50	150	61	0.00e+00
Pm51	151	61	0.00e+00
Sm44	144	62	2.83e-12
Sm45	145	62	0.00e+00
Sm46	146	62	0.00e+00
Sm47	147	62	2.77e-10
Sm48	148	62	5.46e-10
Sm49	149	62	1.28e-10
Sm50	150	62	5.00e-10
Sm51	151	62	0.00e+00
Sm52	152	62	4.58e-10
Sm53	153	62	0.00e+00
Sm54	154	62	2.51e-10
Eu51	151	63	8.70e-11
Eu52	152	63	0.00e+00

Eu53	153	63	9.95e-11
Eu54	154	63	0.00e+00
Eu55	155	63	0.00e+00
Eu56	156	63	0.00e+00
Eu57	157	63	0.00e+00
Gd52	152	64	5.54e-12
Gd53	153	64	0.00e+00
Gd54	154	64	1.21e-10
Gd55	155	64	1.37e-10
Gd56	156	64	3.93e-10
Gd57	157	64	1.88e-10
Gd58	158	64	6.83e-10
Gd59	159	64	0.00e+00
Gd60	160	64	2.07e-10
Tb59	159	65	1.70e-10
Tb60	160	65	0.00e+00
Tb61	161	65	0.00e+00
Dy60	160	66	2.09e-10
Dy61	161	66	1.42e-10
Dy62	162	66	5.08e-10
Dy63	163	66	1.86e-10
Dy64	164	66	7.89e-10
Dy65	165	66	0.00e+00
Dy66	166	66	0.00e+00
Ho63	163	67	3.89e-13
Ho64	164	67	0.00e+00
Ho65	165	67	2.28e-10
Ho66	166	67	0.00e+00
Er64	164	68	8.33e-11
Er65	165	68	0.00e+00
Er66	166	68	3.16e-10
Er67	167	68	1.56e-10
Er68	168	68	5.75e-10
Er69	169	68	0.00e+00
Er70	170	68	3.36e-10
Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	1.63e-10
Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00

Tm73	173	69	0.00e+00		Os86	186	76	3.36e-10
Yb70	170	70	1.73e-10		Os87	187	76	9.73e-11
Yb71	171	70	2.74e-10		Os88	188	76	6.93e-10
Yb72	172	70	6.62e-10		Os89	189	76	2.32e-10
Yb73	173	70	3.15e-10		Os90	190	76	9.73e-10
Yb74	174	70	1.46e-09		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	3.98e-10
Yb76	176	70	4.10e-10		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	2.15e-10		Ir91	191	77	3.08e-10
Lu76	176	71	3.56e-11		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	4.38e-10
Hf76	176	72	2.52e-10		Ir94	194	77	0.00e+00
Hf77	177	72	1.93e-10		Ir95	195	77	0.00e+00
Hf78	178	72	8.27e-10		Pt92	192	78	2.52e-10
Hf79	179	72	2.85e-10		Pt93	193	78	0.00e+00
Hf80	180	72	1.50e-09		Pt94	194	78	1.35e-09
Hf81	181	72	0.00e+00		Pt95	195	78	6.39e-10
Hf82	182	72	2.59e-10		Pt96	196	78	1.70e-09
Hf83	183	72	0.00e+00		Pt97	197	78	0.00e+00
Hf84	184	72	0.00e+00		Pt98	198	78	3.14e-10
Ta79	179	73	0.00e+00		Au97	197	79	5.21e-10
Ta80	180	73	0.00e+00		Au98	198	79	0.00e+00
Ta81	181	73	3.22e-10		Au99	199	79	0.00e+00
Ta82	182	73	0.00e+00		Hg98	198	80	1.20e-09
Ta83	183	73	0.00e+00		Hg99	199	80	6.46e-10
Ta84	184	73	0.00e+00		Hg00	200	80	2.19e-09
W180	180	74	0.00e+00		Hg01	201	80	9.63e-10
W181	181	74	0.00e+00		Hg02	202	80	3.66e-09
W182	182	74	5.24e-10		Hg03	203	80	0.00e+00
W183	183	74	3.99e-10		Hg04	204	80	2.62e-10
W184	184	74	1.05e-09		Tl03	203	81	1.93e-09
W185	185	74	0.00e+00		Tl04	204	81	0.00e+00
W186	186	74	7.68e-10		Tl05	205	81	4.07e-09
W187	187	74	0.00e+00		Pb04	204	82	2.15e-09
W188	188	74	0.00e+00		Pb05	205	82	1.99e-10
Re85	185	75	2.12e-10		Pb06	206	82	2.26e-08
Re86	186	75	0.00e+00		Pb07	207	82	3.81e-08
Re87	187	75	1.65e-10		Pb08	208	82	5.64e-07
Re88	188	75	0.00e+00		Pb09	209	82	0.00e+00
Re89	189	75	0.00e+00		Pb10	210	82	0.00e+00

Isotope	A	Z	YIELD [$M_\odot$]
Bi09	209	83	1.03e-08
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 2.00; Z = 0.001000; IRV = 30 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	9.34e-01
He4	4	2	3.79e-01
C12	12	6	1.21e-02
C13	13	6	5.94e-06
C14	14	6	9.08e-10
N14	14	7	2.04e-04
N15	15	7	1.14e-07
O16	16	8	8.63e-04
O17	17	8	7.71e-06
O18	18	8	7.91e-07
F18	18	9	0.00e+00
F19	19	9	1.33e-06
Ne20	20	10	1.05e-04
Ne21	21	10	4.85e-07
Ne22	22	10	7.30e-04
Na22	22	11	0.00e+00
Na23	23	11	9.92e-06
Na24	24	11	0.00e+00
Mg24	24	12	6.26e-05
Mg25	25	12	1.48e-05
Mg26	26	12	1.64e-05
Al26	26	13	2.87e-08
Al27	27	13	6.88e-06
Si28	28	14	6.70e-05
Si29	29	14	3.59e-06
Si30	30	14	2.64e-06
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	7.64e-07
P32	32	15	0.00e+00

Isotope	A	Z	YIELD [$M_\odot$]
P33	33	15	0.00e+00
S32	32	16	3.49e-05
S33	33	16	3.04e-07
S34	34	16	1.76e-06
S35	35	16	0.00e+00
S36	36	16	1.44e-08
Cl35	35	17	3.55e-07
Cl36	36	17	2.66e-10
Cl37	37	17	1.49e-07
Ar36	36	18	7.93e-06
Ar37	37	18	0.00e+00
Ar38	38	18	1.58e-06
Ar39	39	18	6.73e-12
Ar40	40	18	1.15e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	3.41e-07
K40	40	19	2.19e-09
K41	41	19	3.21e-08
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	5.96e-06
Ca41	41	20	5.27e-10
Ca42	42	20	4.83e-08
Ca43	43	20	1.04e-08
Ca44	44	20	1.47e-07
Ca45	45	20	0.00e+00
Ca46	46	20	1.37e-09
Ca47	47	20	0.00e+00
Ca48	48	20	1.39e-08
Sc45	45	21	5.37e-09
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	2.46e-08
Ti47	47	22	2.17e-08
Ti48	48	22	2.15e-07
Ti49	49	22	2.08e-08
Ti50	50	22	3.06e-08
V50	50	23	8.99e-11

V51	51	23	3.80e-08		Ga72	72	31	0.00e+00
Cr50	50	24	7.15e-08		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	1.19e-08
Cr52	52	24	1.47e-06		Ge71	71	32	0.00e+00
Cr53	53	24	1.70e-07		Ge72	72	32	1.41e-08
Cr54	54	24	5.94e-08		Ge73	73	32	4.04e-09
Mn55	55	25	1.30e-06		Ge74	74	32	1.84e-08
Mn56	56	25	0.00e+00		Ge75	75	32	0.00e+00
Fe54	54	26	6.90e-06		Ge76	76	32	1.81e-09
Fe55	55	26	6.35e-13		Ge77	77	32	0.00e+00
Fe56	56	26	1.14e-04		As75	75	33	2.08e-09
Fe57	57	26	3.20e-06		As76	76	33	0.00e+00
Fe58	58	26	1.13e-06		As77	77	33	0.00e+00
Fe59	59	26	0.00e+00		Se76	76	34	4.58e-09
Fe60	60	26	4.97e-08		Se77	77	34	2.33e-09
Co59	59	27	5.11e-07		Se78	78	34	8.06e-09
Co60	60	27	1.74e-13		Se79	79	34	7.96e-10
Ni58	58	28	4.73e-06		Se80	80	34	1.65e-08
Ni59	59	28	3.12e-09		Se81	81	34	0.00e+00
Ni60	60	28	2.03e-06		Se82	82	34	1.22e-09
Ni61	61	28	1.40e-07		Br79	79	35	2.20e-09
Ni62	62	28	3.76e-07		Br80	80	35	0.00e+00
Ni63	63	28	7.20e-12		Br81	81	35	2.56e-09
Ni64	64	28	1.81e-07		Br82	82	35	0.00e+00
Ni65	65	28	0.00e+00		Br83	83	35	0.00e+00
Ni66	66	28	0.00e+00		Br84	84	35	0.00e+00
Cu63	63	29	1.17e-07		Kr80	80	36	4.89e-10
Cu64	64	29	0.00e+00		Kr81	81	36	1.72e-11
Cu65	65	29	5.52e-08		Kr82	82	36	6.52e-09
Cu66	66	29	0.00e+00		Kr83	83	36	3.20e-09
Cu67	67	29	0.00e+00		Kr84	84	36	1.93e-08
Zn64	64	30	1.09e-07		Kr85	85	36	0.00e+00
Zn65	65	30	0.00e+00		Kr86	86	36	1.12e-08
Zn66	66	30	8.83e-08		Kr87	87	36	0.00e+00
Zn67	67	30	1.52e-08		Kr88	88	36	0.00e+00
Zn68	68	30	7.30e-08		Rb85	85	37	4.25e-09
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	1.47e-09		Rb87	87	37	4.70e-09
Ga69	69	31	8.50e-09		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	4.23e-09
Ga71	71	31	6.65e-09		Sr87	87	38	2.83e-09

Sr88	88	38	6.79e-08		Ru02	102	44	1.60e-09
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	2.82e-10
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	1.70e-08		Rh03	103	45	4.03e-10
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	9.52e-10
Y92	92	39	0.00e+00		Pd05	105	46	3.45e-10
Y93	93	39	0.00e+00		Pd06	106	46	1.28e-09
Zr90	90	40	1.60e-08		Pd07	107	46	2.18e-10
Zr91	91	40	5.02e-09		Pd08	108	46	1.57e-09
Zr92	92	40	8.39e-09		Pd09	109	46	0.00e+00
Zr93	93	40	2.08e-09		Pd10	110	46	2.53e-10
Zr94	94	40	1.06e-08		Ag07	107	47	8.07e-11
Zr95	95	40	0.00e+00		Ag09	109	47	4.40e-10
Zr96	96	40	3.83e-09		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	4.90e-12
Nb93	93	41	7.15e-10		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	1.22e-09
Nb95	95	41	0.00e+00		Cd11	111	48	4.82e-10
Nb96	96	41	0.00e+00		Cd12	112	48	1.73e-09
Nb97	97	41	0.00e+00		Cd13	113	48	5.28e-10
Mo92	92	42	9.58e-11		Cd14	114	48	2.50e-09
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	8.34e-11		Cd16	116	48	5.31e-10
Mo95	95	42	1.28e-09		In13	113	49	2.18e-12
Mo96	96	42	2.08e-09		In15	115	49	5.32e-10
Mo97	97	42	8.05e-10		Sn14	114	50	6.93e-12
Mo98	98	42	2.69e-09		Sn15	115	50	3.60e-12
Mo99	99	42	0.00e+00		Sn16	116	50	3.21e-09
Mo00	100	42	2.79e-10		Sn17	117	50	1.09e-09
Tc97	97	43	0.00e+00		Sn18	118	50	5.09e-09
Tc98	98	43	0.00e+00		Sn19	119	50	1.52e-09
Tc99	99	43	7.92e-11		Sn20	120	50	8.31e-09
Ru96	96	44	2.40e-11		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	1.23e-09
Ru98	98	44	8.29e-12		Sn23	123	50	0.00e+00
Ru99	99	44	3.25e-10		Sn24	124	50	1.34e-10
Ru00	100	44	1.26e-09		Sb21	121	51	6.72e-10
Ru01	101	44	3.60e-10		Sb22	122	51	0.00e+00

Sb23	123	51	2.57e-10		Ce40	140	58	2.68e-08
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	2.15e-09
Te22	122	52	9.32e-10		Ce43	143	58	0.00e+00
Te23	123	52	3.13e-10		Ce44	144	58	0.00e+00
Te24	124	52	1.96e-09		Pr41	141	59	2.94e-09
Te25	125	52	7.35e-10		Pr42	142	59	0.00e+00
Te26	126	52	3.83e-09		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	9.90e-10		Nd42	142	60	6.22e-09
Te30	130	52	5.33e-10		Nd43	143	60	1.20e-09
I127	127	53	7.93e-10		Nd44	144	60	3.91e-09
I128	128	53	0.00e+00		Nd45	145	60	7.40e-10
I129	129	53	1.35e-11		Nd46	146	60	3.62e-09
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	6.75e-10
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	4.96e-11
Xe28	128	54	1.15e-09		Pm45	145	61	0.00e+00
Xe29	129	54	9.41e-10		Pm46	146	61	0.00e+00
Xe30	130	54	2.47e-09		Pm47	147	61	0.00e+00
Xe31	131	54	1.07e-09		Pm48	148	61	0.00e+00
Xe32	132	54	5.42e-09		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	1.47e-09		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	2.83e-12
Xe36	136	54	1.95e-10		Sm45	145	62	0.00e+00
Cs33	133	55	8.31e-10		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	4.28e-10
Cs35	135	55	5.93e-10		Sm48	148	62	9.23e-10
Cs36	136	55	0.00e+00		Sm49	149	62	1.93e-10
Cs37	137	55	0.00e+00		Sm50	150	62	7.89e-10
Ba34	134	56	1.48e-09		Sm51	151	62	0.00e+00
Ba35	135	56	6.13e-10		Sm52	152	62	7.05e-10
Ba36	136	56	5.01e-09		Sm53	153	62	0.00e+00
Ba37	137	56	5.62e-09		Sm54	154	62	3.32e-10
Ba38	138	56	7.08e-08		Eu51	151	63	1.27e-10
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	1.45e-10
La39	139	57	8.83e-09		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00

Eu56	156	63	0.00e+00	Yb72	172	70	1.08e-09
Eu57	157	63	0.00e+00	Yb73	173	70	5.05e-10
Gd52	152	64	8.87e-12	Yb74	174	70	2.39e-09
Gd53	153	64	0.00e+00	Yb75	175	70	0.00e+00
Gd54	154	64	1.94e-10	Yb76	176	70	5.47e-10
Gd55	155	64	1.96e-10	Yb77	177	70	0.00e+00
Gd56	156	64	5.91e-10	Lu75	175	71	3.44e-10
Gd57	157	64	2.80e-10	Lu76	176	71	5.86e-11
Gd58	158	64	1.06e-09	Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00	Hf76	176	72	4.18e-10
Gd60	160	64	2.63e-10	Hf77	177	72	3.01e-10
Tb59	159	65	2.54e-10	Hf78	178	72	1.33e-09
Tb60	160	65	0.00e+00	Hf79	179	72	4.56e-10
Tb61	161	65	0.00e+00	Hf80	180	72	2.47e-09
Dy60	160	66	3.36e-10	Hf81	181	72	0.00e+00
Dy61	161	66	2.04e-10	Hf82	182	72	3.33e-10
Dy62	162	66	7.81e-10	Hf83	183	72	0.00e+00
Dy63	163	66	2.71e-10	Hf84	184	72	0.00e+00
Dy64	164	66	1.25e-09	Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00	Ta80	180	73	0.00e+00
Dy66	166	66	0.00e+00	Ta81	181	73	5.26e-10
Ho63	163	67	4.79e-13	Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00	Ta83	183	73	0.00e+00
Ho65	165	67	3.48e-10	Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00	W180	180	74	0.00e+00
Er64	164	68	1.32e-10	W181	181	74	0.00e+00
Er65	165	68	0.00e+00	W182	182	74	9.10e-10
Er66	166	68	5.07e-10	W183	183	74	6.58e-10
Er67	167	68	2.42e-10	W184	184	74	1.76e-09
Er68	168	68	9.45e-10	W185	185	74	0.00e+00
Er69	169	68	0.00e+00	W186	186	74	1.17e-09
Er70	170	68	4.69e-10	W187	187	74	0.00e+00
Er71	171	68	0.00e+00	W188	188	74	0.00e+00
Er72	172	68	0.00e+00	Re85	185	75	3.48e-10
Tm69	169	69	2.60e-10	Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00	Re87	187	75	2.46e-10
Tm71	171	69	0.00e+00	Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00	Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00	Os86	186	76	5.90e-10
Yb70	170	70	2.93e-10	Os87	187	76	1.69e-10
Yb71	171	70	4.28e-10	Os88	188	76	1.11e-09

Isotope	A	Z	YIELD
Os89	189	76	3.45e-10
Os90	190	76	1.53e-09
Os91	191	76	0.00e+00
Os92	192	76	5.30e-10
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	4.30e-10
Ir92	192	77	0.00e+00
Ir93	193	77	5.84e-10
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	4.31e-10
Pt93	193	78	0.00e+00
Pt94	194	78	2.04e-09
Pt95	195	78	9.06e-10
Pt96	196	78	2.77e-09
Pt97	197	78	0.00e+00
Pt98	198	78	3.85e-10
Au97	197	79	8.15e-10
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	2.11e-09
Hg99	199	80	1.08e-09
Hg00	200	80	3.65e-09
Hg01	201	80	1.58e-09
Hg02	202	80	6.03e-09
Hg03	203	80	0.00e+00
Hg04	204	80	3.19e-10
Tl03	203	81	3.08e-09
Tl04	204	81	0.00e+00
Tl05	205	81	6.30e-09
Pb04	204	82	3.49e-09
Pb05	205	82	2.64e-10
Pb06	206	82	3.16e-08
Pb07	207	82	5.16e-08
Pb08	208	82	3.67e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	6.67e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 2.00; Z = 0.001000; IRV = 60 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	9.34e-01
He4	4	2	3.78e-01
C12	12	6	1.21e-02
C13	13	6	8.48e-06
C14	14	6	9.04e-10
N14	14	7	2.18e-04
N15	15	7	7.56e-08
O16	16	8	8.67e-04
O17	17	8	7.65e-06
O18	18	8	7.81e-07
F18	18	9	0.00e+00
F19	19	9	1.36e-06
Ne20	20	10	1.05e-04
Ne21	21	10	4.78e-07
Ne22	22	10	7.36e-04
Na22	22	11	0.00e+00
Na23	23	11	1.01e-05
Na24	24	11	0.00e+00
Mg24	24	12	6.30e-05
Mg25	25	12	1.49e-05
Mg26	26	12	1.64e-05
Al26	26	13	3.05e-08
Al27	27	13	6.87e-06
Si28	28	14	6.70e-05
Si29	29	14	3.59e-06
Si30	30	14	2.61e-06
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	7.43e-07
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	3.49e-05
S33	33	16	3.05e-07
S34	34	16	1.74e-06

S35	35	16	0.00e+00
S36	36	16	1.34e-08
Cl35	35	17	3.55e-07
Cl36	36	17	2.68e-10
Cl37	37	17	1.57e-07
Ar36	36	18	7.93e-06
Ar37	37	18	0.00e+00
Ar38	38	18	1.59e-06
Ar39	39	18	6.98e-12
Ar40	40	18	7.27e-09
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	3.41e-07
K40	40	19	2.31e-09
K41	41	19	3.24e-08
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	5.96e-06
Ca41	41	20	5.34e-10
Ca42	42	20	4.86e-08
Ca43	43	20	1.05e-08
Ca44	44	20	1.47e-07
Ca45	45	20	0.00e+00
Ca46	46	20	6.82e-10
Ca47	47	20	0.00e+00
Ca48	48	20	1.39e-08
Sc45	45	21	5.32e-09
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	2.47e-08
Ti47	47	22	2.17e-08
Ti48	48	22	2.15e-07
Ti49	49	22	2.10e-08
Ti50	50	22	3.00e-08
V50	50	23	8.99e-11
V51	51	23	3.79e-08
Cr50	50	24	7.15e-08
Cr51	51	24	0.00e+00
Cr52	52	24	1.47e-06

Cr53	53	24	1.70e-07
Cr54	54	24	5.90e-08
Mn55	55	25	1.30e-06
Mn56	56	25	0.00e+00
Fe54	54	26	6.90e-06
Fe55	55	26	4.33e-13
Fe56	56	26	1.14e-04
Fe57	57	26	3.22e-06
Fe58	58	26	1.12e-06
Fe59	59	26	0.00e+00
Fe60	60	26	2.40e-08
Co59	59	27	5.03e-07
Co60	60	27	0.00e+00
Ni58	58	28	4.73e-06
Ni59	59	28	3.14e-09
Ni60	60	28	2.02e-06
Ni61	61	28	1.34e-07
Ni62	62	28	3.55e-07
Ni63	63	28	6.96e-12
Ni64	64	28	1.33e-07
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	1.00e-07
Cu64	64	29	0.00e+00
Cu65	65	29	4.51e-08
Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	1.05e-07
Zn65	65	30	0.00e+00
Zn66	66	30	8.10e-08
Zn67	67	30	1.38e-08
Zn68	68	30	6.85e-08
Zn69	69	30	0.00e+00
Zn70	70	30	1.45e-09
Ga69	69	31	7.99e-09
Ga70	70	31	0.00e+00
Ga71	71	31	6.53e-09
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	1.14e-08
Ge71	71	32	0.00e+00

Ge72	72	32	1.42e-08		Sr92	92	38	0.00e+00
Ge73	73	32	4.12e-09		Y89	89	39	2.09e-08
Ge74	74	32	1.93e-08		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	1.81e-09		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	2.17e-09		Zr90	90	40	1.95e-08
As76	76	33	0.00e+00		Zr91	91	40	6.00e-09
As77	77	33	0.00e+00		Zr92	92	40	9.66e-09
Se76	76	34	4.96e-09		Zr93	93	40	2.40e-09
Se77	77	34	2.49e-09		Zr94	94	40	1.18e-08
Se78	78	34	8.78e-09		Zr95	95	40	0.00e+00
Se79	79	34	8.99e-10		Zr96	96	40	2.13e-09
Se80	80	34	1.84e-08		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	7.88e-10
Se82	82	34	1.22e-09		Nb94	94	41	0.00e+00
Br79	79	35	2.39e-09		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	2.83e-09		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	9.57e-11
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	8.36e-11
Kr80	80	36	5.17e-10		Mo95	95	42	1.41e-09
Kr81	81	36	1.97e-11		Mo96	96	42	2.29e-09
Kr82	82	36	7.69e-09		Mo97	97	42	8.11e-10
Kr83	83	36	3.64e-09		Mo98	98	42	2.73e-09
Kr84	84	36	2.24e-08		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	2.79e-10
Kr86	86	36	7.83e-09		Tc97	97	43	0.00e+00
Kr87	87	36	0.00e+00		Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00		Tc99	99	43	8.51e-11
Rb85	85	37	4.96e-09		Ru96	96	44	2.40e-11
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	3.65e-09		Ru98	98	44	8.29e-12
Rb88	88	37	0.00e+00		Ru99	99	44	3.26e-10
Sr86	86	38	5.37e-09		Ru00	100	44	1.30e-09
Sr87	87	38	3.71e-09		Ru01	101	44	3.68e-10
Sr88	88	38	8.66e-08		Ru02	102	44	1.65e-09
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	2.92e-10
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00

Ru06	106	44	0.00e+00		Te23	123	52	3.40e-10
Rh03	103	45	4.15e-10		Te24	124	52	2.08e-09
Rh05	105	45	0.00e+00		Te25	125	52	7.75e-10
Pd04	104	46	9.91e-10		Te26	126	52	4.10e-09
Pd05	105	46	3.57e-10		Te27	127	52	0.00e+00
Pd06	106	46	1.34e-09		Te28	128	52	1.02e-09
Pd07	107	46	2.30e-10		Te30	130	52	5.33e-10
Pd08	108	46	1.66e-09		I127	127	53	8.30e-10
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	2.67e-10		I129	129	53	1.42e-11
Ag07	107	47	8.08e-11		I130	130	53	0.00e+00
Ag09	109	47	4.62e-10		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	4.57e-12		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	1.24e-09
Cd10	110	48	1.29e-09		Xe29	129	54	9.78e-10
Cd11	111	48	5.10e-10		Xe30	130	54	2.67e-09
Cd12	112	48	1.84e-09		Xe31	131	54	1.13e-09
Cd13	113	48	5.62e-10		Xe32	132	54	5.87e-09
Cd14	114	48	2.68e-09		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	1.11e-09
Cd16	116	48	5.38e-10		Xe35	135	54	0.00e+00
In13	113	49	2.18e-12		Xe36	136	54	1.62e-10
In15	115	49	5.70e-10		Cs33	133	55	8.96e-10
Sn14	114	50	6.93e-12		Cs34	134	55	0.00e+00
Sn15	115	50	3.60e-12		Cs35	135	55	5.93e-10
Sn16	116	50	3.48e-09		Cs36	136	55	0.00e+00
Sn17	117	50	1.17e-09		Cs37	137	55	0.00e+00
Sn18	118	50	5.49e-09		Ba34	134	56	1.64e-09
Sn19	119	50	1.64e-09		Ba35	135	56	6.65e-10
Sn20	120	50	8.99e-09		Ba36	136	56	5.47e-09
Sn21	121	50	0.00e+00		Ba37	137	56	5.31e-09
Sn22	122	50	1.01e-09		Ba38	138	56	7.08e-08
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00
Sn24	124	50	1.02e-10		Ba40	140	56	0.00e+00
Sb21	121	51	7.25e-10		La39	139	57	8.87e-09
Sb22	122	51	0.00e+00		La40	140	57	0.00e+00
Sb23	123	51	2.50e-10		Ce40	140	58	2.76e-08
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	1.54e-09
Te22	122	52	1.01e-09		Ce43	143	58	0.00e+00

Ce44	144	58	0.00e+00	Gd54	154	64	1.74e-10
Pr41	141	59	2.98e-09	Gd55	155	64	1.82e-10
Pr42	142	59	0.00e+00	Gd56	156	64	5.37e-10
Pr43	143	59	0.00e+00	Gd57	157	64	2.54e-10
Pr45	145	59	0.00e+00	Gd58	158	64	9.50e-10
Nd42	142	60	6.48e-09	Gd59	159	64	0.00e+00
Nd43	143	60	1.17e-09	Gd60	160	64	2.50e-10
Nd44	144	60	3.74e-09	Tb59	159	65	2.30e-10
Nd45	145	60	7.05e-10	Tb60	160	65	0.00e+00
Nd46	146	60	3.39e-09	Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00	Dy60	160	66	2.98e-10
Nd48	148	60	6.32e-10	Dy61	161	66	1.86e-10
Nd49	149	60	0.00e+00	Dy62	162	66	6.98e-10
Nd50	150	60	4.92e-11	Dy63	163	66	2.45e-10
Pm45	145	61	0.00e+00	Dy64	164	66	1.11e-09
Pm46	146	61	0.00e+00	Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00	Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00	Ho63	163	67	4.88e-13
Pm49	149	61	0.00e+00	Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00	Ho65	165	67	3.12e-10
Pm51	151	61	0.00e+00	Ho66	166	67	0.00e+00
Sm44	144	62	2.83e-12	Er64	164	68	1.18e-10
Sm45	145	62	0.00e+00	Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00	Er66	166	68	4.46e-10
Sm47	147	62	4.02e-10	Er67	167	68	2.15e-10
Sm48	148	62	8.44e-10	Er68	168	68	8.30e-10
Sm49	149	62	1.79e-10	Er69	169	68	0.00e+00
Sm50	150	62	7.23e-10	Er70	170	68	4.32e-10
Sm51	151	62	0.00e+00	Er71	171	68	0.00e+00
Sm52	152	62	6.46e-10	Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00	Tm69	169	69	2.31e-10
Sm54	154	62	3.15e-10	Tm70	170	69	0.00e+00
Eu51	151	63	1.18e-10	Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00	Tm72	172	69	0.00e+00
Eu53	153	63	1.34e-10	Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00	Yb70	170	70	2.55e-10
Eu55	155	63	0.00e+00	Yb71	171	70	3.82e-10
Eu56	156	63	0.00e+00	Yb72	172	70	9.44e-10
Eu57	157	63	0.00e+00	Yb73	173	70	4.44e-10
Gd52	152	64	8.04e-12	Yb74	174	70	2.08e-09
Gd53	153	64	0.00e+00	Yb75	175	70	0.00e+00

Yb76	176	70	4.85e-10		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	3.01e-10		Ir91	191	77	3.72e-10
Lu76	176	71	5.10e-11		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	5.15e-10
Hf76	176	72	3.61e-10		Ir94	194	77	0.00e+00
Hf77	177	72	2.63e-10		Ir95	195	77	0.00e+00
Hf78	178	72	1.14e-09		Pt92	192	78	3.42e-10
Hf79	179	72	3.91e-10		Pt93	193	78	0.00e+00
Hf80	180	72	2.08e-09		Pt94	194	78	1.70e-09
Hf81	181	72	0.00e+00		Pt95	195	78	7.73e-10
Hf82	182	72	2.96e-10		Pt96	196	78	2.24e-09
Hf83	183	72	0.00e+00		Pt97	197	78	0.00e+00
Hf84	184	72	0.00e+00		Pt98	198	78	3.39e-10
Ta79	179	73	0.00e+00		Au97	197	79	6.69e-10
Ta80	180	73	0.00e+00		Au98	198	79	0.00e+00
Ta81	181	73	4.45e-10		Au99	199	79	0.00e+00
Ta82	182	73	0.00e+00		Hg98	198	80	1.66e-09
Ta83	183	73	0.00e+00		Hg99	199	80	8.61e-10
Ta84	184	73	0.00e+00		Hg00	200	80	2.94e-09
W180	180	74	0.00e+00		Hg01	201	80	1.29e-09
W181	181	74	0.00e+00		Hg02	202	80	4.95e-09
W182	182	74	7.46e-10		Hg03	203	80	0.00e+00
W183	183	74	5.51e-10		Hg04	204	80	2.45e-10
W184	184	74	1.48e-09		Tl03	203	81	2.57e-09
W185	185	74	0.00e+00		Tl04	204	81	0.00e+00
W186	186	74	9.89e-10		Tl05	205	81	5.62e-09
W187	187	74	0.00e+00		Pb04	204	82	3.10e-09
W188	188	74	0.00e+00		Pb05	205	82	2.47e-10
Re85	185	75	2.94e-10		Pb06	206	82	2.72e-08
Re86	186	75	0.00e+00		Pb07	207	82	4.05e-08
Re87	187	75	2.11e-10		Pb08	208	82	2.64e-07
Re88	188	75	0.00e+00		Pb09	209	82	0.00e+00
Re89	189	75	0.00e+00		Pb10	210	82	0.00e+00
Os86	186	76	4.85e-10		Bi09	209	83	4.75e-09
Os87	187	76	1.39e-10		Bi10	210	83	0.00e+00
Os88	188	76	9.16e-10		Po10	210	84	0.00e+00
Os89	189	76	2.93e-10					
Os90	190	76	1.27e-09					
Os91	191	76	0.00e+00					
Os92	192	76	4.70e-10					

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Model Parameters: ($M_\odot$ = 2.00; Z = 0.002000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	9.41e-01
He4	4	2	3.93e-01
C12	12	6	1.26e-02
C13	13	6	1.23e-05
C14	14	6	2.84e-09
N14	14	7	3.81e-04
N15	15	7	2.68e-07
O16	16	8	1.47e-03
O17	17	8	1.31e-05
O18	18	8	1.64e-06
F18	18	9	0.00e+00
F19	19	9	1.02e-06
Ne20	20	10	2.11e-04
Ne21	21	10	1.03e-06
Ne22	22	10	8.55e-04
Na22	22	11	0.00e+00
Na23	23	11	1.53e-05
Na24	24	11	0.00e+00
Mg24	24	12	1.18e-04
Mg25	25	12	1.94e-05
Mg26	26	12	1.94e-05
Al26	26	13	3.25e-08
Al27	27	13	1.27e-05
Si28	28	14	1.36e-04
Si29	29	14	7.24e-06
Si30	30	14	5.15e-06
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	1.46e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	7.12e-05
S33	33	16	6.21e-07
S34	34	16	3.52e-06
S35	35	16	0.00e+00
S36	36	16	2.53e-08
Cl35	35	17	7.25e-07
Cl36	36	17	4.94e-10
Cl37	37	17	2.87e-07
Ar36	36	18	1.62e-05
Ar37	37	18	0.00e+00
Ar38	38	18	3.20e-06
Ar39	39	18	3.67e-12
Ar40	40	18	1.25e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	6.88e-07
K40	40	19	4.13e-09
K41	41	19	6.39e-08
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	1.22e-05
Ca41	41	20	8.88e-10
Ca42	42	20	9.47e-08
Ca43	43	20	2.02e-08
Ca44	44	20	2.95e-07
Ca45	45	20	0.00e+00
Ca46	46	20	1.35e-09
Ca47	47	20	0.00e+00
Ca48	48	20	2.84e-08
Sc45	45	21	9.95e-09
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	4.93e-08
Ti47	47	22	4.38e-08
Ti48	48	22	4.38e-07
Ti49	49	22	4.12e-08
Ti50	50	22	5.63e-08
V50	50	23	1.84e-10
V51	51	23	7.76e-08
Cr50	50	24	1.46e-07
Cr51	51	24	0.00e+00
Cr52	52	24	3.00e-06
Cr53	53	24	3.47e-07
Cr54	54	24	1.14e-07
Mn55	55	25	2.69e-06
Mn56	56	25	0.00e+00

Fe54	54	26	1.41e-05		Ge76	76	32	3.57e-09
Fe55	55	26	4.12e-13		Ge77	77	32	0.00e+00
Fe56	56	26	2.33e-04		As75	75	33	3.19e-09
Fe57	57	26	6.46e-06		As76	76	33	0.00e+00
Fe58	58	26	1.83e-06		As77	77	33	0.00e+00
Fe59	59	26	0.00e+00		Se76	76	34	4.48e-09
Fe60	60	26	5.55e-08		Se77	77	34	2.81e-09
Co59	59	27	9.53e-07		Se78	78	34	1.19e-08
Co60	60	27	1.12e-13		Se79	79	34	4.05e-10
Ni58	58	28	9.69e-06		Se80	80	34	1.98e-08
Ni59	59	28	7.32e-09		Se81	81	34	0.00e+00
Ni60	60	28	4.09e-06		Se82	82	34	2.40e-09
Ni61	61	28	2.55e-07		Br79	79	35	3.05e-09
Ni62	62	28	6.82e-07		Br80	80	35	0.00e+00
Ni63	63	28	1.22e-12		Br81	81	35	3.48e-09
Ni64	64	28	2.17e-07		Br82	82	35	0.00e+00
Ni65	65	28	0.00e+00		Br83	83	35	0.00e+00
Ni66	66	28	0.00e+00		Br84	84	35	0.00e+00
Cu63	63	29	1.73e-07		Kr80	80	36	6.67e-10
Cu64	64	29	0.00e+00		Kr81	81	36	1.36e-11
Cu65	65	29	7.86e-08		Kr82	82	36	6.24e-09
Cu66	66	29	0.00e+00		Kr83	83	36	4.03e-09
Cu67	67	29	0.00e+00		Kr84	84	36	2.23e-08
Zn64	64	30	2.11e-07		Kr85	85	36	0.00e+00
Zn65	65	30	0.00e+00		Kr86	86	36	9.28e-09
Zn66	66	30	1.38e-07		Kr87	87	36	0.00e+00
Zn67	67	30	2.18e-08		Kr88	88	36	0.00e+00
Zn68	68	30	1.01e-07		Rb85	85	37	4.17e-09
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	2.85e-09		Rb87	87	37	3.10e-09
Ga69	69	31	1.05e-08		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	3.98e-09
Ga71	71	31	7.67e-09		Sr87	87	38	2.85e-09
Ga72	72	31	0.00e+00		Sr88	88	38	7.58e-08
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	1.35e-08		Sr90	90	38	0.00e+00
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	1.71e-08		Sr92	92	38	0.00e+00
Ge73	73	32	4.89e-09		Y89	89	39	1.88e-08
Ge74	74	32	2.51e-08		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00

Y92	92	39	0.00e+00		Pd05	105	46	4.98e-10
Y93	93	39	0.00e+00		Pd06	106	46	1.67e-09
Zr90	90	40	2.10e-08		Pd07	107	46	2.70e-10
Zr91	91	40	5.77e-09		Pd08	108	46	2.05e-09
Zr92	92	40	9.07e-09		Pd09	109	46	0.00e+00
Zr93	93	40	2.39e-09		Pd10	110	46	3.25e-10
Zr94	94	40	1.27e-08		Ag07	107	47	1.54e-10
Zr95	95	40	0.00e+00		Ag09	109	47	6.68e-10
Zr96	96	40	2.84e-09		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	9.76e-12
Nb93	93	41	1.05e-09		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	1.58e-09
Nb95	95	41	0.00e+00		Cd11	111	48	6.44e-10
Nb96	96	41	0.00e+00		Cd12	112	48	2.24e-09
Nb97	97	41	0.00e+00		Cd13	113	48	7.03e-10
Mo92	92	42	1.96e-10		Cd14	114	48	3.25e-09
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	1.67e-10		Cd16	116	48	5.44e-10
Mo95	95	42	1.76e-09		In13	113	49	4.45e-12
Mo96	96	42	2.75e-09		In15	115	49	7.10e-10
Mo97	97	42	1.03e-09		Sn14	114	50	1.43e-11
Mo98	98	42	3.56e-09		Sn15	115	50	7.42e-12
Mo99	99	42	0.00e+00		Sn16	116	50	4.28e-09
Mo00	100	42	3.67e-10		Sn17	117	50	1.44e-09
Tc97	97	43	0.00e+00		Sn18	118	50	6.71e-09
Tc98	98	43	0.00e+00		Sn19	119	50	2.08e-09
Tc99	99	43	1.13e-10		Sn20	120	50	1.13e-08
Ru96	96	44	4.88e-11		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	1.07e-09
Ru98	98	44	1.70e-11		Sn23	123	50	0.00e+00
Ru99	99	44	4.50e-10		Sn24	124	50	1.91e-10
Ru00	100	44	1.68e-09		Sb21	121	51	9.32e-10
Ru01	101	44	5.18e-10		Sb22	122	51	0.00e+00
Ru02	102	44	2.56e-09		Sb23	123	51	3.23e-10
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	4.06e-10		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	1.28e-09
Ru06	106	44	0.00e+00		Te23	123	52	4.32e-10
Rh03	103	45	6.01e-10		Te24	124	52	2.67e-09
Rh05	105	45	0.00e+00		Te25	125	52	1.06e-09
Pd04	104	46	1.24e-09		Te26	126	52	5.65e-09

Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	1.66e-09		Nd42	142	60	1.12e-08
Te30	130	52	1.09e-09		Nd43	143	60	1.91e-09
I127	127	53	1.33e-09		Nd44	144	60	6.09e-09
I128	128	53	0.00e+00		Nd45	145	60	1.16e-09
I129	129	53	1.64e-11		Nd46	146	60	5.63e-09
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	1.01e-09
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	6.87e-11
Xe28	128	54	1.68e-09		Pm45	145	61	0.00e+00
Xe29	129	54	1.65e-09		Pm46	146	61	0.00e+00
Xe30	130	54	3.65e-09		Pm47	147	61	0.00e+00
Xe31	131	54	1.78e-09		Pm48	148	61	0.00e+00
Xe32	132	54	8.21e-09		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	1.40e-09		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	5.78e-12
Xe36	136	54	3.25e-10		Sm45	145	62	0.00e+00
Cs33	133	55	1.29e-09		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	6.79e-10
Cs35	135	55	7.98e-10		Sm48	148	62	1.41e-09
Cs36	136	55	0.00e+00		Sm49	149	62	2.98e-10
Cs37	137	55	0.00e+00		Sm50	150	62	1.18e-09
Ba34	134	56	2.16e-09		Sm51	151	62	0.00e+00
Ba35	135	56	9.47e-10		Sm52	152	62	1.05e-09
Ba36	136	56	7.65e-09		Sm53	153	62	0.00e+00
Ba37	137	56	7.18e-09		Sm54	154	62	4.96e-10
Ba38	138	56	1.06e-07		Eu51	151	63	2.00e-10
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	2.36e-10
La39	139	57	1.30e-08		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	4.53e-08		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	1.67e-09		Gd52	152	64	1.40e-11
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	2.56e-10
Pr41	141	59	4.71e-09		Gd55	155	64	3.01e-10
Pr42	142	59	0.00e+00		Gd56	156	64	8.64e-10
Pr43	143	59	0.00e+00		Gd57	157	64	4.11e-10

Gd58	158	64	1.46e-09		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	6.54e-10
Gd60	160	64	3.80e-10		Hf77	177	72	4.56e-10
Tb59	159	65	3.75e-10		Hf78	178	72	1.90e-09
Tb60	160	65	0.00e+00		Hf79	179	72	6.65e-10
Tb61	161	65	0.00e+00		Hf80	180	72	3.61e-09
Dy60	160	66	4.72e-10		Hf81	181	72	0.00e+00
Dy61	161	66	3.04e-10		Hf82	182	72	3.30e-10
Dy62	162	66	1.13e-09		Hf83	183	72	0.00e+00
Dy63	163	66	4.15e-10		Hf84	184	72	0.00e+00
Dy64	164	66	1.92e-09		Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00		Ta80	180	73	1.28e-13
Dy66	166	66	0.00e+00		Ta81	181	73	7.83e-10
Ho63	163	67	6.69e-13		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta93	183	73	0.00e+00
Ho65	165	67	5.25e-10		Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00		W180	180	74	1.40e-13
Er64	164	68	1.77e-10		W181	181	74	0.00e+00
Er65	165	68	0.00e+00		W182	182	74	1.40e-09
Er66	166	68	7.40e-10		W183	183	74	1.00e-09
Er67	167	68	3.63e-10		W184	184	74	2.65e-09
Er68	168	68	1.43e-09		W185	185	74	0.00e+00
Er69	169	68	0.00e+00		W186	186	74	1.40e-09
Er70	170	68	7.77e-10		W187	187	74	0.00e+00
Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	5.36e-10
Tm69	169	69	3.10e-10		Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00		Re87	187	75	3.86e-10
Tm71	171	69	0.00e+00		Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00		Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00		Os86	186	76	8.81e-10
Yb70	170	70	4.47e-10		Os87	187	76	2.39e-10
Yb71	171	70	7.13e-10		Os88	188	76	2.13e-09
Yb72	172	70	1.67e-09		Os89	189	76	5.42e-10
Yb73	173	70	7.81e-10		Os90	190	76	2.42e-09
Yb74	174	70	3.63e-09		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	1.71e-09
Yb76	176	70	7.72e-10		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	5.25e-10		Ir91	191	77	6.66e-10
Lu76	176	71	8.82e-11		Ir92	192	77	0.00e+00

Isotope	A	Z	YIELD [M$_\odot$]
Ir93	193	77	9.59e-10
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	6.04e-10
Pt93	193	78	0.00e+00
Pt94	194	78	2.84e-09
Pt95	195	78	1.36e-09
Pt96	196	78	3.58e-09
Pt97	197	78	0.00e+00
Pt98	198	78	4.24e-10
Au97	197	79	1.16e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	3.02e-09
Hg99	199	80	1.57e-09
Hg00	200	80	5.42e-09
Hg01	201	80	2.37e-09
Hg02	202	80	1.00e-08
Hg03	203	80	0.00e+00
Hg04	204	80	2.50e-10
Tl03	203	81	4.68e-09
Tl04	204	81	0.00e+00
Tl05	205	81	1.05e-08
Pb04	204	82	5.50e-09
Pb05	205	82	5.43e-10
Pb06	206	82	6.68e-08
Pb07	207	82	9.08e-08
Pb08	208	82	8.31e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	6.93e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M$_\alpha$ = 2.00; Z = 0.003000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [M$_\alpha$]

Isotope	A	Z	YIELD [M$_\odot$]
H	1	1	9.45e-01
He4	4	2	3.97e-01
C12	12	6	1.08e-02
C13	13	6	1.81e-05
C14	14	6	3.10e-10
N14	14	7	5.51e-04
N15	15	7	3.79e-07
O16	16	8	2.01e-03
O17	17	8	1.79e-05
O18	18	8	2.58e-06
F18	18	9	0.00e+00
F19	19	9	1.08e-06
Ne20	20	10	3.15e-04
Ne21	21	10	9.75e-07
Ne22	22	10	6.91e-04
Na22	22	11	0.00e+00
Na23	23	11	1.90e-05
Na24	24	11	0.00e+00
Mg24	24	12	1.69e-04
Mg25	25	12	2.42e-05
Mg26	26	12	2.74e-05
Al26	26	13	5.14e-08
Al27	27	13	1.87e-05
Si28	28	14	2.05e-04
Si29	29	14	1.09e-05
Si30	30	14	7.64e-06
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	2.11e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	1.07e-04
S33	33	16	9.20e-07
S34	34	16	5.23e-06
S35	35	16	0.00e+00
S36	36	16	3.24e-08
Cl35	35	17	1.10e-06
Cl36	36	17	5.50e-10
Cl37	37	17	4.25e-07
Ar36	36	18	2.45e-05
Ar37	37	18	0.00e+00

Ar38	38	18	4.80e-06
Ar39	39	18	3.26e-12
Ar40	40	18	1.94e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	1.04e-06
K40	40	19	4.65e-09
K41	41	19	9.28e-08
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	1.84e-05
Ca41	41	20	1.20e-09
Ca42	42	20	1.40e-07
Ca43	43	20	2.97e-08
Ca44	44	20	4.46e-07
Ca45	45	20	0.00e+00
Ca46	46	20	2.01e-09
Ca47	47	20	0.00e+00
Ca48	48	20	4.28e-08
Sc45	45	21	1.43e-08
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	7.44e-08
Ti47	47	22	6.63e-08
Ti48	48	22	6.65e-07
Ti49	49	22	5.88e-08
Ti50	50	22	7.88e-08
V50	50	23	2.80e-10
V51	51	23	1.17e-07
Cr50	50	24	2.22e-07
Cr51	51	24	0.00e+00
Cr52	52	24	4.53e-06
Cr53	53	24	5.24e-07
Cr54	54	24	1.59e-07
Mn55	55	25	4.03e-06
Mn56	56	25	0.00e+00
Fe54	54	26	2.15e-05
Fe55	55	26	8.54e-13
Fe56	56	26	3.52e-04

Fe57	57	26	9.26e-06
Fe58	58	26	2.15e-06
Fe59	59	26	0.00e+00
Fe60	60	26	6.45e-08
Co59	59	27	1.31e-06
Co60	60	27	2.27e-13
Ni58	58	28	1.47e-05
Ni59	59	28	9.05e-09
Ni60	60	28	6.10e-06
Ni61	61	28	3.39e-07
Ni62	62	28	9.64e-07
Ni63	63	28	1.37e-12
Ni64	64	28	3.12e-07
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	2.34e-07
Cu64	64	29	0.00e+00
Cu65	65	29	1.07e-07
Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	3.20e-07
Zn65	65	30	0.00e+00
Zn66	66	30	2.03e-07
Zn67	67	30	3.17e-08
Zn68	68	30	1.47e-07
Zn69	69	30	0.00e+00
Zn70	70	30	4.31e-09
Ga69	69	31	1.52e-08
Ga70	70	31	0.00e+00
Ga71	71	31	1.14e-08
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	1.97e-08
Ge71	71	32	0.00e+00
Ge72	72	32	2.51e-08
Ge73	73	32	7.13e-09
Ge74	74	32	3.35e-08
Ge75	75	32	0.00e+00
Ge76	76	32	5.35e-09
Ge77	77	32	0.00e+00
As75	75	33	4.29e-09

As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	6.67e-09
Se77	77	34	4.23e-09
Se78	78	34	1.41e-08
Se79	79	34	7.52e-10
Se80	80	34	2.98e-08
Se81	81	34	0.00e+00
Se82	82	34	3.61e-09
Br79	79	35	4.37e-09
Br80	80	35	0.00e+00
Br81	81	35	4.93e-09
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	1.17e-09
Kr81	81	36	4.88e-11
Kr82	82	36	9.77e-09
Kr83	83	36	6.09e-09
Kr84	84	36	3.31e-08
Kr85	85	36	0.00e+00
Kr86	86	36	1.36e-08
Kr87	87	36	0.00e+00
Kr88	88	36	0.00e+00
Rb85	85	37	5.77e-09
Rb86	86	37	0.00e+00
Rb87	87	37	3.94e-09
Rb88	88	37	0.00e+00
Sr86	86	38	6.60e-09
Sr87	87	38	4.61e-09
Sr88	88	38	1.23e-07
Sr89	89	38	0.00e+00
Sr90	90	38	0.00e+00
Sr91	91	38	0.00e+00
Sr92	92	38	0.00e+00
Y89	89	39	2.92e-08
Y90	90	39	0.00e+00
Y91	91	39	0.00e+00
Y92	92	39	0.00e+00
Y93	93	39	0.00e+00
Zr90	90	40	3.32e-08

Zr91	91	40	9.23e-09
Zr92	92	40	1.52e-08
Zr93	93	40	3.68e-09
Zr94	94	40	2.17e-08
Zr95	95	40	0.00e+00
Zr96	96	40	3.69e-09
Zr97	97	40	0.00e+00
Nb93	93	41	1.52e-09
Nb94	94	41	0.00e+00
Nb95	95	41	0.00e+00
Nb96	96	41	0.00e+00
Nb97	97	41	0.00e+00
Mo92	92	42	2.98e-10
Mo93	93	42	0.00e+00
Mo94	94	42	2.96e-10
Mo95	95	42	2.56e-09
Mo96	96	42	4.52e-09
Mo97	97	42	1.70e-09
Mo98	98	42	6.00e-09
Mo99	99	42	0.00e+00
Mo00	100	42	4.50e-10
Tc97	97	43	0.00e+00
Tc98	98	43	0.00e+00
Tc99	99	43	2.13e-10
Ru96	96	44	7.43e-11
Ru97	97	44	0.00e+00
Ru98	98	44	2.59e-11
Ru99	99	44	7.23e-10
Ru00	100	44	2.86e-09
Ru01	101	44	8.41e-10
Ru02	102	44	3.54e-09
Ru03	103	44	0.00e+00
Ru04	104	44	5.28e-10
Ru05	105	44	0.00e+00
Ru06	106	44	0.00e+00
Rh03	103	45	9.44e-10
Rh05	105	45	0.00e+00
Pd04	104	46	2.12e-09
Pd05	105	46	8.05e-10
Pd06	106	46	2.80e-09
Pd07	107	46	4.63e-10

Pd08	108	46	3.47e-09		I127	127	53	2.21e-09
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	4.05e-10		I129	129	53	2.59e-11
Ag07	107	47	2.34e-10		I130	130	53	0.00e+00
Ag09	109	47	1.01e-09		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	1.72e-11		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	2.99e-09
Cd10	110	48	2.76e-09		Xe29	129	54	2.66e-09
Cd11	111	48	1.08e-09		Xe30	130	54	6.52e-09
Cd12	112	48	3.81e-09		Xe31	131	54	2.98e-09
Cd13	113	48	1.19e-09		Xe32	132	54	1.42e-08
Cd14	114	48	5.51e-09		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	2.04e-09
Cd16	116	48	5.99e-10		Xe35	135	54	0.00e+00
In13	113	49	6.75e-12		Xe36	136	54	5.00e-10
In15	115	49	1.19e-09		Cs33	133	55	2.17e-09
Sn14	114	50	2.16e-11		Cs34	134	55	0.00e+00
Sn15	115	50	1.12e-11		Cs35	135	55	1.08e-09
Sn16	116	50	7.44e-09		Cs36	136	55	0.00e+00
Sn17	117	50	2.42e-09		Cs37	137	55	0.00e+00
Sn18	118	50	1.13e-08		Ba34	134	56	4.17e-09
Sn19	119	50	3.43e-09		Ba35	135	56	1.80e-09
Sn20	120	50	1.92e-08		Ba36	136	56	1.38e-08
Sn21	121	50	0.00e+00		Ba37	137	56	1.30e-08
Sn22	122	50	1.45e-09		Ba38	138	56	1.96e-07
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00
Sn24	124	50	3.11e-10		Ba40	140	56	0.00e+00
Sb21	121	51	1.56e-09		La39	139	57	2.54e-08
Sb22	122	51	0.00e+00		La40	140	57	0.00e+00
Sb23	123	51	4.64e-10		Ce40	140	58	8.58e-08
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	3.33e-09
Te22	122	52	2.23e-09		Ce43	143	58	0.00e+00
Te23	123	52	7.69e-10		Ce44	144	58	0.00e+00
Te24	124	52	4.80e-09		Pr41	141	59	8.22e-09
Te25	125	52	1.89e-09		Pr42	142	59	0.00e+00
Te26	126	52	1.00e-08		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	2.67e-09		Nd42	142	60	2.16e-08
Te30	130	52	1.65e-09		Nd43	143	60	3.57e-09

Nd44	144	60	1.14e-08		Tb59	159	65	7.15e-10
Nd45	145	60	2.15e-09		Tb60	160	65	0.00e+00
Nd46	146	60	1.08e-08		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	9.51e-10
Nd48	148	60	1.33e-09		Dy61	161	66	5.62e-10
Nd49	149	60	0.00e+00		Dy62	162	66	2.21e-09
Nd50	150	60	7.78e-11		Dy63	163	66	7.99e-10
Pm45	145	61	0.00e+00		Dy64	164	66	3.94e-09
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	1.11e-12
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	1.04e-09
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	8.80e-12		Er64	164	68	3.55e-10
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	1.55e-09
Sm47	147	62	1.28e-09		Er67	167	68	7.44e-10
Sm48	148	62	3.02e-09		Er68	168	68	3.05e-09
Sm49	149	62	5.47e-10		Er69	169	68	0.00e+00
Sm50	150	62	2.27e-09		Er70	170	68	1.12e-09
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	1.97e-09		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	8.39e-10
Sm54	154	62	6.70e-10		Tm70	170	69	0.00e+00
Eu51	151	63	3.65e-10		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00
Eu53	153	63	4.08e-10		Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00		Yb70	170	70	9.63e-10
Eu55	155	63	0.00e+00		Yb71	171	70	1.32e-09
Eu56	156	63	0.00e+00		Yb72	172	70	3.26e-09
Eu57	157	63	0.00e+00		Yb73	173	70	1.53e-09
Gd52	152	64	2.67e-11		Yb74	174	70	7.31e-09
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00
Gd54	154	64	5.43e-10		Yb76	176	70	9.97e-10
Gd55	155	64	5.15e-10		Yb77	177	70	0.00e+00
Gd56	156	64	1.56e-09		Lu75	175	71	1.05e-09
Gd57	157	64	7.46e-10		Lu76	176	71	1.81e-10
Gd58	158	64	2.93e-09		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	1.29e-09
Gd60	160	64	5.14e-10		Hf77	177	72	8.66e-10

Isotope	A	Z	Yield
Hf78	178	72	3.80e-09
Hf79	179	72	1.31e-09
Hf80	180	72	7.28e-09
Hf81	181	72	0.00e+00
Hf82	182	72	5.07e-10
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	2.37e-13
Ta81	181	73	1.56e-09
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	2.13e-13
W181	181	74	0.00e+00
W182	182	74	2.91e-09
W183	183	74	2.02e-09
W184	184	74	5.56e-09
W185	185	74	0.00e+00
W186	186	74	2.87e-09
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	1.11e-09
Re86	186	75	0.00e+00
Re87	187	75	6.12e-10
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	1.90e-09
Os87	187	76	5.46e-10
Os88	188	76	2.97e-09
Os89	189	76	9.36e-10
Os90	190	76	4.15e-09
Os91	191	76	0.00e+00
Os92	192	76	1.39e-09
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	1.21e-09
Ir92	192	77	0.00e+00
Ir93	193	77	1.65e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00

Isotope	A	Z	Yield
Pt92	192	78	1.24e-09
Pt93	193	78	0.00e+00
Pt94	194	78	5.45e-09
Pt95	195	78	2.58e-09
Pt96	196	78	8.15e-09
Pt97	197	78	0.00e+00
Pt98	198	78	5.89e-10
Au97	197	79	2.42e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	6.39e-09
Hg99	199	80	3.11e-09
Hg00	200	80	1.03e-08
Hg01	201	80	4.40e-09
Hg02	202	80	1.74e-08
Hg03	203	80	0.00e+00
Hg04	204	80	4.34e-10
Tl03	203	81	8.55e-09
Tl04	204	81	0.00e+00
Tl05	205	81	2.16e-08
Pb04	204	82	1.22e-08
Pb05	205	82	1.13e-09
Pb06	206	82	9.68e-08
Pb07	207	82	1.49e-07
Pb08	208	82	4.18e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	4.07e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 2.00; Z = 0.006000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	9.53e-01
He4	4	2	3.95e-01
C12	12	6	1.02e-02

C13	13	6	3.72e-05		Ar41	41	18	0.00e+00
C14	14	6	2.45e-10		Ar42	42	18	0.00e+00
N14	14	7	1.05e-03		K39	39	19	2.08e-06
N15	15	7	7.95e-07		K40	40	19	7.84e-09
O16	16	8	3.75e-03		K41	41	19	1.82e-07
O17	17	8	2.51e-05		K42	42	19	0.00e+00
O18	18	8	5.41e-06		K43	43	19	0.00e+00
F18	18	9	0.00e+00		Ca40	40	20	3.72e-05
F19	19	9	1.11e-06		Ca41	41	20	2.47e-09
Ne20	20	10	6.34e-04		Ca42	42	20	2.77e-07
Ne21	21	10	1.75e-06		Ca43	43	20	5.90e-08
Ne22	22	10	7.33e-04		Ca44	44	20	8.97e-07
Na22	22	11	0.00e+00		Ca45	45	20	0.00e+00
Na23	23	11	3.32e-05		Ca46	46	20	2.96e-09
Na24	24	11	0.00e+00		Ca47	47	20	0.00e+00
Mg24	24	12	3.29e-04		Ca48	48	20	8.63e-08
Mg25	25	12	4.42e-05		Sc45	45	21	2.77e-08
Mg26	26	12	5.10e-05		Sc46	46	21	0.00e+00
Al26	26	13	1.07e-07		Sc47	47	21	0.00e+00
Al27	27	13	3.69e-05		Sc48	48	21	0.00e+00
Si28	28	14	4.13e-04		Sc49	49	21	0.00e+00
Si29	29	14	2.18e-05		Ti46	46	22	1.50e-07
Si30	30	14	1.52e-05		Ti47	47	22	1.34e-07
Si31	31	14	0.00e+00		Ti48	48	22	1.34e-06
Si32	32	14	0.00e+00		Ti49	49	22	1.15e-07
P31	31	15	4.13e-06		Ti50	50	22	1.41e-07
P32	32	15	0.00e+00		V50	50	23	5.66e-10
P33	33	15	0.00e+00		V51	51	23	2.36e-07
S32	32	16	2.17e-04		Cr50	50	24	4.50e-07
S33	33	16	1.83e-06		Cr51	51	24	0.00e+00
S34	34	16	1.04e-05		Cr52	52	24	9.14e-06
S35	35	16	0.00e+00		Cr53	53	24	1.06e-06
S36	36	16	5.85e-08		Cr54	54	24	3.04e-07
Cl35	35	17	2.21e-06		Mn55	55	25	8.11e-06
Cl36	36	17	9.76e-10		Mn56	56	25	0.00e+00
Cl37	37	17	8.52e-07		Fe54	54	26	4.34e-05
Ar36	36	18	4.95e-05		Fe55	55	26	1.54e-12
Ar37	37	18	0.00e+00		Fe56	56	26	7.11e-04
Ar38	38	18	9.64e-06		Fe57	57	26	1.81e-05
Ar39	39	18	3.56e-12		Fe58	58	26	3.64e-06
Ar40	40	18	3.13e-08		Fe59	59	26	0.00e+00

Fe60	60	26	6.59e-08		Se77	77	34	9.26e-09
Co59	59	27	2.47e-06		Se78	78	34	3.13e-08
Co60	60	27	2.32e-13		Se79	79	34	1.70e-09
Ni58	58	28	2.98e-05		Se80	80	34	6.53e-08
Ni59	59	28	1.79e-08		Se81	81	34	0.00e+00
Ni60	60	28	1.22e-05		Se82	82	34	7.28e-09
Ni61	61	28	6.34e-07		Br79	79	35	9.18e-09
Ni62	62	28	1.88e-06		Br80	80	35	0.00e+00
Ni63	63	28	1.57e-12		Br81	81	35	1.10e-08
Ni64	64	28	5.96e-07		Br82	82	35	0.00e+00
Ni65	65	28	0.00e+00		Br83	83	35	0.00e+00
Ni66	66	28	0.00e+00		Br84	84	35	0.00e+00
Cu63	63	29	4.37e-07		Kr80	80	36	3.18e-09
Cu64	64	29	0.00e+00		Kr81	81	36	2.42e-10
Cu65	65	29	2.08e-07		Kr82	82	36	2.39e-08
Cu66	66	29	0.00e+00		Kr83	83	36	1.36e-08
Cu67	67	29	0.00e+00		Kr84	84	36	7.43e-08
Zn64	64	30	6.42e-07		Kr85	85	36	0.00e+00
Zn65	65	30	0.00e+00		Kr86	86	36	2.56e-08
Zn66	66	30	4.05e-07		Kr87	87	36	0.00e+00
Zn67	67	30	6.32e-08		Kr88	88	36	0.00e+00
Zn68	68	30	2.99e-07		Rb85	85	37	1.24e-08
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	8.69e-09		Rb87	87	37	6.83e-09
Ga69	69	31	3.16e-08		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	1.86e-08
Ga71	71	31	2.47e-08		Sr87	87	38	1.26e-08
Ga72	72	31	0.00e+00		Sr88	88	38	3.24e-07
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	4.23e-08		Sr90	90	38	0.00e+00
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	5.37e-08		Sr92	92	38	0.00e+00
Ge73	73	32	1.52e-08		Y89	89	39	7.32e-08
Ge74	74	32	7.21e-08		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	1.08e-08		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	9.08e-09		Zr90	90	40	8.55e-08
As76	76	33	0.00e+00		Zr91	91	40	2.22e-08
As77	77	33	0.00e+00		Zr92	92	40	3.71e-08
Se76	76	34	1.52e-08		Zr93	93	40	9.15e-09

Zr94	94	40	5.39e-08
Zr95	95	40	0.00e+00
Zr96	96	40	6.00e-09
Zr97	97	40	0.00e+00
Nb93	93	41	3.64e-09
Nb94	94	41	0.00e+00
Nb95	95	41	0.00e+00
Nb96	96	41	0.00e+00
Nb97	97	41	0.00e+00
Mo92	92	42	6.04e-10
Mo93	93	42	0.00e+00
Mo94	94	42	7.75e-10
Mo95	95	42	5.96e-09
Mo96	96	42	1.15e-08
Mo97	97	42	4.25e-09
Mo98	98	42	1.49e-08
Mo99	99	42	0.00e+00
Mo00	100	42	7.33e-10
Tc97	97	43	2.43e-13
Tc98	98	43	0.00e+00
Tc99	99	43	5.43e-10
Ru96	96	44	1.51e-10
Ru97	97	44	0.00e+00
Ru98	98	44	5.25e-11
Ru99	99	44	1.72e-09
Ru00	100	44	7.16e-09
Ru01	101	44	1.98e-09
Ru02	102	44	8.56e-09
Ru03	103	44	0.00e+00
Ru04	104	44	8.86e-10
Ru05	105	44	0.00e+00
Ru06	106	44	0.00e+00
Rh03	103	45	2.20e-09
Rh05	105	45	0.00e+00
Pd04	104	46	5.34e-09
Pd05	105	46	1.88e-09
Pd06	106	46	6.83e-09
Pd07	107	46	1.16e-09
Pd08	108	46	8.47e-09
Pd09	109	46	0.00e+00
Pd10	110	46	6.19e-10

Ag07	107	47	4.86e-10
Ag09	109	47	2.41e-09
Ag11	111	47	0.00e+00
Cd08	108	48	4.62e-11
Cd09	109	48	0.00e+00
Cd10	110	48	6.92e-09
Cd11	111	48	2.60e-09
Cd12	112	48	9.18e-09
Cd13	113	48	2.83e-09
Cd14	114	48	1.33e-08
Cd15	115	48	0.00e+00
Cd16	116	48	8.92e-10
In13	113	49	1.37e-11
In15	115	49	2.81e-09
Sn14	114	50	4.37e-11
Sn15	115	50	2.27e-11
Sn16	116	50	1.84e-08
Sn17	117	50	5.89e-09
Sn18	118	50	2.68e-08
Sn19	119	50	8.21e-09
Sn20	120	50	4.48e-08
Sn21	121	50	0.00e+00
Sn22	122	50	2.11e-09
Sn23	123	50	0.00e+00
Sn24	124	50	5.15e-10
Sb21	121	51	3.60e-09
Sb22	122	51	0.00e+00
Sb23	123	51	7.70e-10
Sb24	124	51	0.00e+00
Sb25	125	51	0.00e+00
Te22	122	52	5.48e-09
Te23	123	52	1.95e-09
Te24	124	52	1.15e-08
Te25	125	52	4.44e-09
Te26	126	52	2.31e-08
Te27	127	52	0.00e+00
Te28	128	52	5.71e-09
Te30	130	52	3.34e-09
I127	127	53	4.82e-09
I128	128	53	0.00e+00
I129	129	53	4.79e-11

I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	9.37e-10
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	1.18e-10
Xe28	128	54	6.88e-09		Pm45	145	61	0.00e+00
Xe29	129	54	5.74e-09		Pm46	146	61	0.00e+00
Xe30	130	54	1.50e-08		Pm47	147	61	0.00e+00
Xe31	131	54	6.52e-09		Pm48	148	61	0.00e+00
Xe32	132	54	3.18e-08		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	3.10e-09		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	1.78e-11
Xe36	136	54	9.49e-10		Sm45	145	62	0.00e+00
Cs33	133	55	4.72e-09		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	1.49e-09
Cs35	135	55	1.65e-09		Sm48	148	62	3.85e-09
Cs36	136	55	0.00e+00		Sm49	149	62	6.55e-10
Cs37	137	55	0.00e+00		Sm50	150	62	2.59e-09
Ba34	134	56	1.03e-08		Sm51	151	62	0.00e+00
Ba35	135	56	4.38e-09		Sm52	152	62	2.21e-09
Ba36	136	56	3.07e-08		Sm53	153	62	0.00e+00
Ba37	137	56	2.71e-08		Sm54	154	62	5.16e-10
Ba38	138	56	3.25e-07		Eu51	151	63	4.61e-10
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	4.95e-10
La39	139	57	4.08e-08		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	1.18e-07		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	2.41e-09		Gd52	152	64	3.87e-11
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	6.24e-10
Pr41	141	59	1.04e-08		Gd55	155	64	5.79e-10
Pr42	142	59	0.00e+00		Gd56	156	64	1.75e-09
Pr43	143	59	0.00e+00		Gd57	157	64	8.75e-10
Pr45	145	59	0.00e+00		Gd58	158	64	3.41e-09
Nd42	142	60	2.88e-08		Gd59	159	64	0.00e+00
Nd43	143	60	4.38e-09		Gd60	160	64	4.34e-10
Nd44	144	60	1.34e-08		Tb59	159	65	8.78e-10
Nd45	145	60	2.53e-09		Tb60	160	65	0.00e+00
Nd46	146	60	1.27e-08		Tb61	161	65	0.00e+00

Dy60	160	66	1.11e-09		Hf81	181	72	0.00e+00
Dy61	161	66	7.07e-10		Hf82	182	72	2.27e-10
Dy62	162	66	2.60e-09		Hf83	183	72	0.00e+00
Dy63	163	66	1.03e-09		Hf84	184	72	0.00e+00
Dy64	164	66	4.59e-09		Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00		Ta80	180	73	2.36e-13
Dy66	166	66	0.00e+00		Ta81	181	73	1.56e-09
Ho63	163	67	1.24e-12		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta83	183	73	0.00e+00
Ho65	165	67	1.24e-09		Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00		W180	180	74	4.31e-13
Er64	164	68	3.83e-10		W181	181	74	0.00e+00
Er65	165	68	0.00e+00		W182	182	74	3.20e-09
Er66	166	68	1.89e-09		W183	183	74	2.09e-09
Er67	167	68	9.30e-10		W184	184	74	5.59e-09
Er68	168	68	3.56e-09		W185	185	74	0.00e+00
Er69	169	68	0.00e+00		W186	186	74	1.90e-09
Er70	170	68	7.78e-10		W187	187	74	0.00e+00
Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	1.12e-09
Tm69	169	69	9.87e-10		Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00		Re87	187	75	4.50e-10
Tm71	171	69	0.00e+00		Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00		Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00		Os86	186	76	2.01e-09
Yb70	170	70	1.11e-09		Os87	187	76	6.33e-10
Yb71	171	70	1.37e-09		Os88	188	76	2.92e-09
Yb72	172	70	3.54e-09		Os89	189	76	1.05e-09
Yb73	173	70	1.69e-09		Os90	190	76	4.21e-09
Yb74	174	70	7.81e-09		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	1.47e-09
Yb76	176	70	5.77e-10		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	1.15e-09		Ir91	191	77	1.52e-09
Lu76	176	71	1.89e-10		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	2.15e-09
Hf76	176	72	1.37e-09		Ir94	194	77	0.00e+00
Hf77	177	72	9.05e-10		Ir95	195	77	0.00e+00
Hf78	178	72	3.88e-09		Pt92	192	78	1.34e-09
Hf79	179	72	1.35e-09		Pt93	193	78	0.00e+00
Hf80	180	72	7.35e-09		Pt94	194	78	5.79e-09

Isotope	A	Z	YIELD
Pt95	195	78	3.16e-09
Pt96	196	78	8.04e-09
Pt97	197	78	0.00e+00
Pt98	198	78	4.69e-10
Au97	197	79	2.50e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	5.88e-09
Hg99	199	80	2.83e-09
Hg00	200	80	8.98e-09
Hg01	201	80	3.78e-09
Hg02	202	80	1.49e-08
Hg03	203	80	0.00e+00
Hg04	204	80	2.11e-10
Tl03	203	81	6.90e-09
Tl04	204	81	0.00e+00
Tl05	205	81	1.73e-08
Pb04	204	82	1.07e-08
Pb05	205	82	8.83e-10
Pb06	206	82	5.85e-08
Pb07	207	82	6.34e-08
Pb08	208	82	1.18e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	1.31e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M_o = 2.00; Z = 0.008000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [M_o]
H	1	1	9.26e-01
He4	4	2	3.88e-01
C12	12	6	8.68e-03
C13	13	6	4.98e-05
C14	14	6	1.78e-10
N14	14	7	1.36e-03

Isotope	A	Z	YIELD
N15	15	7	1.02e-06
O16	16	8	4.78e-03
O17	17	8	2.90e-05
O18	18	8	7.11e-06
F18	18	9	0.00e+00
F19	19	9	1.04e-06
Ne20	20	10	8.25e-04
Ne21	21	10	2.19e-06
Ne22	22	10	6.51e-04
Na22	22	11	0.00e+00
Na23	23	11	4.03e-05
Na24	24	11	0.00e+00
Mg24	24	12	4.22e-04
Mg25	25	12	5.56e-05
Mg26	26	12	6.39e-05
Al26	26	13	1.54e-07
Al27	27	13	4.77e-05
Si28	28	14	5.37e-04
Si29	29	14	2.83e-05
Si30	30	14	1.95e-05
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	5.28e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	2.82e-04
S33	33	16	2.36e-06
S34	34	16	1.35e-05
S35	35	16	0.00e+00
S36	36	16	7.06e-08
Cl35	35	17	2.88e-06
Cl36	36	17	9.31e-10
Cl37	37	17	1.08e-06
Ar36	36	18	6.45e-05
Ar37	37	18	0.00e+00
Ar38	38	18	1.25e-05
Ar39	39	18	2.28e-12
Ar40	40	18	3.40e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	2.70e-06

K40	40	19	8.31e-09		Ni58	58	28	3.89e-05
K41	41	19	2.28e-07		Ni59	59	28	1.50e-08
K42	42	19	0.00e+00		Ni60	60	28	1.58e-05
K43	43	19	0.00e+00		Ni61	61	28	7.85e-07
Ca40	40	20	4.84e-05		Ni62	62	28	2.36e-06
Ca41	41	20	2.11e-09		Ni63	63	28	4.26e-13
Ca42	42	20	3.56e-07		Ni64	64	28	7.26e-07
Ca43	43	20	7.56e-08		Ni65	65	28	0.00e+00
Ca44	44	20	1.16e-06		Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00		Cu63	63	29	5.47e-07
Ca46	46	20	3.07e-09		Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00		Cu65	65	29	2.66e-07
Ca48	48	20	1.12e-07		Cu66	66	29	0.00e+00
Sc45	45	21	3.50e-08		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	8.25e-07
Sc47	47	21	0.00e+00		Zn65	65	30	0.00e+00
Sc48	48	21	0.00e+00		Zn66	66	30	5.17e-07
Sc49	49	21	0.00e+00		Zn67	67	30	8.02e-08
Ti46	46	22	1.94e-07		Zn68	68	30	3.81e-07
Ti47	47	22	1.74e-07		Zn69	69	30	0.00e+00
Ti48	48	22	1.75e-06		Zn70	70	30	1.13e-08
Ti49	49	22	1.46e-07		Ga69	69	31	4.01e-08
Ti50	50	22	1.70e-07		Ga70	70	31	0.00e+00
V50	50	23	7.40e-10		Ga71	71	31	3.12e-08
V51	51	23	3.06e-07		Ga72	72	31	0.00e+00
Cr50	50	24	5.88e-07		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	5.33e-08
Cr52	52	24	1.19e-05		Ge71	71	32	0.00e+00
Cr53	53	24	1.37e-06		Ge72	72	32	6.79e-08
Cr54	54	24	3.83e-07		Ge73	73	32	1.93e-08
Mn55	55	25	1.05e-05		Ge74	74	32	1.02e-07
Mn56	56	25	0.00e+00		Ge75	75	32	0.00e+00
Fe54	54	26	5.66e-05		Ge76	76	32	1.41e-08
Fe55	55	26	6.94e-13		Ge77	77	32	0.00e+00
Fe56	56	26	9.27e-04		As75	75	33	1.30e-08
Fe57	57	26	2.31e-05		As76	76	33	0.00e+00
Fe58	58	26	4.17e-06		As77	77	33	0.00e+00
Fe59	59	26	0.00e+00		Se76	76	34	1.88e-08
Fe60	60	26	4.22e-08		Se77	77	34	1.17e-08
Co59	59	27	3.07e-06		Se78	78	34	5.07e-08
Co60	60	27	0.00e+00		Se79	79	34	1.45e-09

Se80	80	34	8.30e-08		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	4.39e-09
Se82	82	34	9.46e-09		Nb94	94	41	0.00e+00
Br79	79	35	1.20e-08		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	1.54e-08		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	7.89e-10
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	9.74e-10
Kr80	80	36	4.30e-09		Mo95	95	42	7.14e-09
Kr81	81	36	3.62e-10		Mo96	96	42	1.34e-08
Kr82	82	36	2.95e-08		Mo97	97	42	4.88e-09
Kr83	83	36	1.73e-08		Mo98	98	42	1.67e-08
Kr84	84	36	9.33e-08		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	7.95e-10
Kr86	86	36	2.92e-08		Tc97	97	43	3.27e-13
Kr87	87	36	0.00e+00		Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00		Tc99	99	43	5.95e-10
Rb85	85	37	1.54e-08		Ru96	96	44	1.97e-10
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	7.11e-09		Ru98	98	44	6.85e-11
Rb88	88	37	0.00e+00		Ru99	99	44	1.97e-09
Sr86	86	38	2.36e-08		Ru00	100	44	7.98e-09
Sr87	87	38	1.59e-08		Ru01	101	44	2.28e-09
Sr88	88	38	3.87e-07		Ru02	102	44	1.15e-08
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	9.75e-10
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	8.55e-08		Rh03	103	45	2.61e-09
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	5.99e-09
Y92	92	39	0.00e+00		Pd05	105	46	2.18e-09
Y93	93	39	0.00e+00		Pd06	106	46	7.68e-09
Zr90	90	40	1.04e-07		Pd07	107	46	1.28e-09
Zr91	91	40	2.50e-08		Pd08	108	46	9.49e-09
Zr92	92	40	4.06e-08		Pd09	109	46	0.00e+00
Zr93	93	40	1.08e-08		Pd10	110	46	6.20e-10
Zr94	94	40	6.05e-08		Ag07	107	47	6.22e-10
Zr95	95	40	0.00e+00		Ag09	109	47	3.05e-09
Zr96	96	40	5.19e-09		Ag11	111	47	0.00e+00

Cd08	108	48	6.17e-11
Cd09	109	48	0.00e+00
Cd10	110	48	7.69e-09
Cd11	111	48	2.92e-09
Cd12	112	48	1.02e-08
Cd13	113	48	3.19e-09
Cd14	114	48	1.48e-08
Cd15	115	48	0.00e+00
Cd16	116	48	8.08e-10
In13	113	49	1.80e-11
In15	115	49	3.14e-09
Sn14	114	50	5.78e-11
Sn15	115	50	2.99e-11
Sn16	116	50	2.05e-08
Sn17	117	50	6.58e-09
Sn18	118	50	2.91e-08
Sn19	119	50	9.17e-09
Sn20	120	50	4.76e-08
Sn21	121	50	0.00e+00
Sn22	122	50	1.54e-09
Sn23	123	50	0.00e+00
Sn24	124	50	5.77e-10
Sb21	121	51	3.86e-09
Sb22	122	51	0.00e+00
Sb23	123	51	7.09e-10
Sb24	124	51	0.00e+00
Sb25	125	51	0.00e+00
Te22	122	52	5.96e-09
Te23	123	52	2.14e-09
Te24	124	52	1.22e-08
Te25	125	52	4.79e-09
Te26	126	52	2.43e-08
Te27	127	52	0.00e+00
Te28	128	52	6.68e-09
Te30	130	52	4.35e-09
I127	127	53	5.49e-09
I128	128	53	0.00e+00
I129	129	53	4.49e-11
I130	130	53	0.00e+00
I131	131	53	0.00e+00
I132	132	53	0.00e+00

I133	133	53	0.00e+00
Xe28	128	54	7.15e-09
Xe29	129	54	6.79e-09
Xe30	130	54	1.56e-08
Xe31	131	54	7.34e-09
Xe32	132	54	3.33e-08
Xe33	133	54	0.00e+00
Xe34	134	54	2.62e-09
Xe35	135	54	0.00e+00
Xe36	136	54	1.20e-09
Cs33	133	55	4.97e-09
Cs34	134	55	0.00e+00
Cs35	135	55	1.32e-09
Cs36	136	55	0.00e+00
Cs37	137	55	0.00e+00
Ba34	134	56	1.09e-08
Ba35	135	56	4.77e-09
Ba36	136	56	3.09e-08
Ba37	137	56	2.65e-08
Ba38	138	56	2.76e-07
Ba39	139	56	0.00e+00
Ba40	140	56	0.00e+00
La39	139	57	3.18e-08
La40	140	57	0.00e+00
Ce40	140	58	8.94e-08
Ce41	141	58	0.00e+00
Ce42	142	58	1.28e-09
Ce43	143	58	0.00e+00
Ce44	144	58	0.00e+00
Pr41	141	59	7.69e-09
Pr42	142	59	0.00e+00
Pr43	143	59	0.00e+00
Pr45	145	59	0.00e+00
Nd42	142	60	2.13e-08
Nd43	143	60	3.18e-09
Nd44	144	60	9.49e-09
Nd45	145	60	1.82e-09
Nd46	146	60	8.89e-09
Nd47	147	60	0.00e+00
Nd48	148	60	5.42e-10
Nd49	149	60	0.00e+00

Nd50	150	60	1.46e-10		Dy63	163	66	8.58e-10
Pm45	145	61	0.00e+00		Dy64	164	66	3.26e-09
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	1.02e-12
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	9.66e-10
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	2.33e-11		Er64	164	68	2.50e-10
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	1.43e-09
Sm47	147	62	1.06e-09		Er67	167	68	7.32e-10
Sm48	148	62	2.76e-09		Er68	168	68	2.49e-09
Sm49	149	62	4.95e-10		Er69	169	68	0.00e+00
Sm50	150	62	1.77e-09		Er70	170	68	4.47e-10
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	1.54e-09		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	5.64e-10
Sm54	154	62	3.55e-10		Tm70	170	69	0.00e+00
Eu51	151	63	3.81e-10		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00
Eu53	153	63	4.16e-10		Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00		Yb70	170	70	7.69e-10
Eu55	155	63	0.00e+00		Yb71	171	70	9.56e-10
Eu56	156	63	0.00e+00		Yb72	172	70	2.43e-09
Eu57	157	63	0.00e+00		Yb73	173	70	1.19e-09
Gd52	152	64	3.54e-11		Yb74	174	70	5.18e-09
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00
Gd54	154	64	4.09e-10		Yb76	176	70	3.22e-10
Gd55	155	64	4.55e-10		Yb77	177	70	0.00e+00
Gd56	156	64	1.28e-09		Lu75	175	71	7.97e-10
Gd57	157	64	6.73e-10		Lu76	176	71	1.22e-10
Gd58	158	64	2.37e-09		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	9.00e-10
Gd60	160	64	3.50e-10		Hf77	177	72	6.32e-10
Tb59	159	65	6.89e-10		Hf78	178	72	2.55e-09
Tb60	160	65	0.00e+00		Hf79	179	72	9.00e-10
Tb61	161	65	0.00e+00		Hf80	180	72	4.75e-09
Dy60	160	66	7.75e-10		Hf81	181	72	0.00e+00
Dy61	161	66	5.95e-10		Hf82	182	72	9.28e-11
Dy62	162	66	1.92e-09		Hf83	183	72	0.00e+00

Isotope	A	Z	YIELD
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	1.57e-13
Ta81	181	73	9.95e-10
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	5.63e-13
W181	181	74	0.00e+00
W182	182	74	2.25e-09
W183	183	74	1.38e-09
W184	184	74	3.32e-09
W185	185	74	0.00e+00
W186	186	74	8.10e-10
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	6.78e-10
Re86	186	75	0.00e+00
Re87	187	75	2.82e-10
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	1.32e-09
Os87	187	76	4.50e-10
Os88	188	76	2.67e-09
Os89	189	76	9.14e-10
Os90	190	76	3.21e-09
Os91	191	76	0.00e+00
Os92	192	76	1.59e-09
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	1.42e-09
Ir92	192	77	0.00e+00
Ir93	193	77	2.12e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	9.18e-10
Pt93	193	78	0.00e+00
Pt94	194	78	4.38e-09
Pt95	195	78	2.85e-09
Pt96	196	78	5.01e-09
Pt97	197	78	0.00e+00

Isotope	A	Z	YIELD
Pt98	198	78	4.44e-10
Au97	197	79	1.83e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	3.55e-09
Hg99	199	80	1.80e-09
Hg00	200	80	5.44e-09
Hg01	201	80	2.31e-09
Hg02	202	80	9.35e-09
Hg03	203	80	0.00e+00
Hg04	204	80	1.49e-10
Tl03	203	81	3.94e-09
Tl04	204	81	0.00e+00
Tl05	205	81	9.41e-09
Pb04	204	82	5.24e-09
Pb05	205	82	4.26e-10
Pb06	206	82	3.56e-08
Pb07	207	82	3.10e-08
Pb08	208	82	7.11e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	8.88e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 2.00; Z = 0.010000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	9.47e-01
He4	4	2	3.97e-01
C12	12	6	9.39e-03
C13	13	6	6.34e-05
C14	14	6	1.66e-10
N14	14	7	1.69e-03
N15	15	7	1.37e-06
O16	16	8	6.08e-03
O17	17	8	3.14e-05

O18	18	8	9.32e-06
F18	18	9	0.00e+00
F19	19	9	1.19e-06
Ne20	20	10	1.06e-03
Ne21	21	10	2.78e-06
Ne22	22	10	7.52e-04
Na22	22	11	0.00e+00
Na23	23	11	5.09e-05
Na24	24	11	0.00e+00
Mg24	24	12	5.39e-04
Mg25	25	12	7.09e-05
Mg26	26	12	8.27e-05
Al26	26	13	2.01e-07
Al27	27	13	6.09e-05
Si28	28	14	6.88e-04
Si29	29	14	3.63e-05
Si30	30	14	2.51e-05
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	6.72e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	3.61e-04
S33	33	16	3.02e-06
S34	34	16	1.73e-05
S35	35	16	0.00e+00
S36	36	16	8.98e-08
Cl35	35	17	3.69e-06
Cl36	36	17	1.31e-09
Cl37	37	17	1.40e-06
Ar36	36	18	8.27e-05
Ar37	37	18	0.00e+00
Ar38	38	18	1.60e-05
Ar39	39	18	2.94e-12
Ar40	40	18	4.22e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	3.46e-06
K40	40	19	1.07e-08
K41	41	19	2.94e-07
K42	42	19	0.00e+00

K43	43	19	0.00e+00
Ca40	40	20	6.20e-05
Ca41	41	20	3.64e-09
Ca42	42	20	4.56e-07
Ca43	43	20	9.69e-08
Ca44	44	20	1.49e-06
Ca45	45	20	0.00e+00
Ca46	46	20	3.79e-09
Ca47	47	20	0.00e+00
Ca48	48	20	1.44e-07
Sc45	45	21	4.44e-08
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	2.49e-07
Ti47	47	22	2.23e-07
Ti48	48	22	2.25e-06
Ti49	49	22	1.87e-07
Ti50	50	22	2.09e-07
V50	50	23	9.48e-10
V51	51	23	3.92e-07
Cr50	50	24	7.54e-07
Cr51	51	24	0.00e+00
Cr52	52	24	1.53e-05
Cr53	53	24	1.76e-06
Cr54	54	24	4.90e-07
Mn55	55	25	1.35e-05
Mn56	56	25	0.00e+00
Fe54	54	26	7.26e-05
Fe55	55	26	1.65e-12
Fe56	56	26	1.19e-03
Fe57	57	26	2.96e-05
Fe58	58	26	5.38e-06
Fe59	59	26	0.00e+00
Fe60	60	26	3.50e-08
Co59	59	27	3.92e-06
Co60	60	27	1.23e-13
Ni58	58	28	4.99e-05
Ni59	59	28	2.36e-08
Ni60	60	28	2.02e-05

Ni61	61	28	1.01e-06		Br79	79	35	1.54e-08
Ni62	62	28	3.07e-06		Br80	80	35	0.00e+00
Ni63	63	28	1.20e-12		Br81	81	35	1.92e-08
Ni64	64	28	9.29e-07		Br82	82	35	0.00e+00
Ni65	65	28	0.00e+00		Br83	83	35	0.00e+00
Ni66	66	28	0.00e+00		Br84	84	35	0.00e+00
Cu63	63	29	6.85e-07		Kr80	80	36	6.21e-09
Cu64	64	29	0.00e+00		Kr81	81	36	6.02e-10
Cu65	65	29	3.33e-07		Kr82	82	36	4.14e-08
Cu66	66	29	0.00e+00		Kr83	83	36	2.31e-08
Cu67	67	29	0.00e+00		Kr84	84	36	1.28e-07
Zn64	64	30	1.06e-06		Kr85	85	36	0.00e+00
Zn65	65	30	0.00e+00		Kr86	86	36	3.62e-08
Zn66	66	30	6.73e-07		Kr87	87	36	0.00e+00
Zn67	67	30	1.05e-07		Kr88	88	36	0.00e+00
Zn68	68	30	4.99e-07		Rb85	85	37	2.12e-08
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	1.45e-08		Rb87	87	37	9.16e-09
Ga69	69	31	5.33e-08		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	3.38e-08
Ga71	71	31	4.20e-08		Sr87	87	38	2.26e-08
Ga72	72	31	0.00e+00		Sr88	88	38	5.12e-07
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	7.16e-08		Sr90	90	38	0.00e+00
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	9.09e-08		Sr92	92	38	0.00e+00
Ge73	73	32	2.57e-08		Y89	89	39	1.09e-07
Ge74	74	32	1.23e-07		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	1.80e-08		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	1.54e-08		Zr90	90	40	1.26e-07
As76	76	33	0.00e+00		Zr91	91	40	3.11e-08
As77	77	33	0.00e+00		Zr92	92	40	5.12e-08
Se76	76	34	2.62e-08		Zr93	93	40	1.27e-08
Se77	77	34	1.59e-08		Zr94	94	40	7.23e-08
Se78	78	34	5.37e-08		Zr95	95	40	0.00e+00
Se79	79	34	2.72e-09		Zr96	96	40	3.43e-09
Se80	80	34	1.13e-07		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	5.01e-09
Se82	82	34	1.21e-08		Nb94	94	41	0.00e+00

Nb95	95	41	0.00e+00
Nb96	96	41	0.00e+00
Nb97	97	41	0.00e+00
Mo92	92	42	1.01e-09
Mo93	93	42	0.00e+00
Mo94	94	42	1.20e-09
Mo95	95	42	7.90e-09
Mo96	96	42	1.54e-08
Mo97	97	42	5.58e-09
Mo98	98	42	1.95e-08
Mo99	99	42	0.00e+00
Mo00	100	42	9.86e-10
Tc97	97	43	4.71e-13
Tc98	98	43	0.00e+00
Tc99	99	43	7.51e-10
Ru96	96	44	2.53e-10
Ru97	97	44	0.00e+00
Ru98	98	44	8.79e-11
Ru99	99	44	2.29e-09
Ru00	100	44	9.51e-09
Ru01	101	44	2.77e-09
Ru02	102	44	1.16e-08
Ru03	103	44	0.00e+00
Ru04	104	44	1.22e-09
Ru05	105	44	0.00e+00
Ru06	106	44	0.00e+00
Rh03	103	45	3.09e-09
Rh05	105	45	0.00e+00
Pd04	104	46	7.29e-09
Pd05	105	46	2.69e-09
Pd06	106	46	9.32e-09
Pd07	107	46	1.55e-09
Pd08	108	46	1.14e-08
Pd09	109	46	0.00e+00
Pd10	110	46	7.45e-10
Ag07	107	47	7.86e-10
Ag09	109	47	3.33e-09
Ag11	111	47	0.00e+00
Cd08	108	48	7.99e-11
Cd09	109	48	0.00e+00
Cd10	110	48	9.33e-09

Cd11	111	48	3.56e-09
Cd12	112	48	1.21e-08
Cd13	113	48	3.81e-09
Cd14	114	48	1.74e-08
Cd15	115	48	0.00e+00
Cd16	116	48	8.48e-10
In13	113	49	2.29e-11
In15	115	49	3.70e-09
Sn14	114	50	7.33e-11
Sn15	115	50	3.81e-11
Sn16	116	50	2.38e-08
Sn17	117	50	7.63e-09
Sn18	118	50	3.30e-08
Sn19	119	50	1.02e-08
Sn20	120	50	5.27e-08
Sn21	121	50	0.00e+00
Sn22	122	50	1.19e-09
Sn23	123	50	0.00e+00
Sn24	124	50	7.10e-10
Sb21	121	51	4.31e-09
Sb22	122	51	0.00e+00
Sb23	123	51	7.83e-10
Sb24	124	51	0.00e+00
Sb25	125	51	0.00e+00
Te22	122	52	6.61e-09
Te23	123	52	2.38e-09
Te24	124	52	1.32e-08
Te25	125	52	5.36e-09
Te26	126	52	2.66e-08
Te27	127	52	0.00e+00
Te28	128	52	7.95e-09
Te30	130	52	5.57e-09
I127	127	53	6.43e-09
I128	128	53	0.00e+00
I129	129	53	4.25e-11
I130	130	53	0.00e+00
I131	131	53	0.00e+00
I132	132	53	0.00e+00
I133	133	53	0.00e+00
Xe28	128	54	7.79e-09
Xe29	129	54	8.04e-09

Xe30	130	54	1.69e-08		Pm47	147	61	0.00e+00
Xe31	131	54	8.51e-09		Pm48	148	61	0.00e+00
Xe32	132	54	3.60e-08		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	2.49e-09		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	2.99e-11
Xe36	136	54	1.53e-09		Sm45	145	62	0.00e+00
Cs33	133	55	5.44e-09		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	8.13e-10
Cs35	135	55	1.23e-09		Sm48	148	62	2.04e-09
Cs36	136	55	0.00e+00		Sm49	149	62	4.14e-10
Cs37	137	55	0.00e+00		Sm50	150	62	1.29e-09
Ba34	134	56	1.16e-08		Sm51	151	62	0.00e+00
Ba35	135	56	5.19e-09		Sm52	152	62	1.19e-09
Ba36	136	56	3.20e-08		Sm53	153	62	0.00e+00
Ba37	137	56	2.69e-08		Sm54	154	62	3.46e-10
Ba38	138	56	2.44e-07		Eu51	151	63	3.48e-10
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	3.68e-10
La39	139	57	2.91e-08		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	7.12e-08		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	9.68e-10		Gd52	152	64	2.88e-11
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	3.29e-10
Pr41	141	59	6.15e-09		Gd55	155	64	4.05e-10
Pr42	142	59	0.00e+00		Gd56	156	64	1.04e-09
Pr43	143	59	0.00e+00		Gd57	157	64	5.77e-10
Pr45	145	59	0.00e+00		Gd58	158	64	1.88e-09
Nd42	142	60	1.63e-08		Gd59	159	64	0.00e+00
Nd43	143	60	2.49e-09		Gd60	160	64	3.75e-10
Nd44	144	60	7.24e-09		Tb59	159	65	5.92e-10
Nd45	145	60	1.43e-09		Tb60	160	65	0.00e+00
Nd46	146	60	6.64e-09		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	5.62e-10
Nd48	148	60	4.54e-10		Dy61	161	66	5.56e-10
Nd49	149	60	0.00e+00		Dy62	162	66	1.53e-09
Nd50	150	60	1.85e-10		Dy63	163	66	7.82e-10
Pm45	145	61	0.00e+00		Dy64	164	66	2.45e-09
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00

Dy66	166	66	0.00e+00	Ta81	181	73	7.24e-10	
Ho63	163	67	6.10e-13	Ta82	182	73	0.00e+00	
Ho64	164	67	0.00e+00	Ta83	183	73	0.00e+00	
Ho65	165	67	8.43e-10	Ta84	184	73	0.00e+00	
Ho66	166	67	0.00e+00	W180	180	74	7.23e-13	
Er64	164	68	1.85e-10	W181	181	74	0.00e+00	
Er65	165	68	0.00e+00	W182	182	74	1.58e-09	
Er66	166	68	1.18e-09	W183	183	74	9.65e-10	
Er67	167	68	6.28e-10	W184	184	74	2.46e-09	
Er68	168	68	1.85e-09	W185	185	74	0.00e+00	
Er69	169	68	0.00e+00	W186	186	74	6.99e-10	
Er70	170	68	3.68e-10	W187	187	74	0.00e+00	
Er71	171	68	0.00e+00	W188	188	74	0.00e+00	
Er72	172	68	0.00e+00	Re85	185	75	5.24e-10	
Tm69	169	69	5.61e-10	Re86	186	75	0.00e+00	
Tm70	170	69	0.00e+00	Re87	187	75	2.41e-10	
Tm71	171	69	0.00e+00	Re88	188	75	0.00e+00	
Tm72	172	69	0.00e+00	Re89	189	75	0.00e+00	
Tm73	173	69	0.00e+00	Os86	186	76	9.20e-10	
Yb70	170	70	5.37e-10	Os87	187	76	3.54e-10	
Yb71	171	70	6.99e-10	Os88	188	76	1.55e-09	
Yb72	172	70	1.78e-09	Os89	189	76	8.44e-10	
Yb73	173	70	8.96e-10	Os90	190	76	2.38e-09	
Yb74	174	70	3.69e-09	Os91	191	76	0.00e+00	
Yb75	175	70	0.00e+00	Os92	192	76	1.57e-09	
Yb76	176	70	2.89e-10	Os93	193	76	0.00e+00	
Yb77	177	70	0.00e+00	Os94	194	76	0.00e+00	
Lu75	175	71	6.13e-10	Ir91	191	77	1.52e-09	
Lu76	176	71	8.42e-11	Ir92	192	77	0.00e+00	
Lu77	177	71	0.00e+00	Ir93	193	77	2.40e-09	
Hf76	176	72	6.35e-10	Ir94	194	77	0.00e+00	
Hf77	177	72	4.99e-10	Ir95	195	77	0.00e+00	
Hf78	178	72	1.84e-09	Pt92	192	78	6.49e-10	
Hf79	179	72	6.64e-10	Pt93	193	78	0.00e+00	
Hf80	180	72	3.34e-09	Pt94	194	78	4.06e-09	
Hf81	181	72	0.00e+00	Pt95	195	78	3.03e-09	
Hf82	182	72	5.94e-11	Pt96	196	78	4.50e-09	
Hf83	183	72	0.00e+00	Pt97	197	78	0.00e+00	
Hf84	184	72	0.00e+00	Pt98	198	78	5.41e-10	
Ta79	179	73	0.00e+00	Au97	197	79	1.73e-09	
Ta80	180	73	1.09e-13	Au98	198	79	0.00e+00	

Isotope	A	Z	YIELD
Au99	199	79	0.00e+00
Hg98	198	80	2.44e-09
Hg99	199	80	1.35e-09
Hg00	200	80	3.78e-09
Hg01	201	80	1.63e-09
Hg02	202	80	6.04e-09
Hg03	203	80	0.00e+00
Hg04	204	80	1.72e-10
Tl03	203	81	2.68e-09
Tl04	204	81	0.00e+00
Tl05	205	81	6.60e-09
Pb04	204	82	4.21e-09
Pb05	205	82	2.88e-10
Pb06	206	82	2.18e-08
Pb07	207	82	2.50e-08
Pb08	208	82	5.12e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	1.04e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 2.00; Z = 0.014000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	9.38e-01
He4	4	2	3.96e-01
C12	12	6	8.27e-03
C13	13	6	8.85e-05
C14	14	6	1.24e-10
N14	14	7	2.29e-03
N15	15	7	1.92e-06
O16	16	8	8.25e-03
O17	17	8	3.46e-05
O18	18	8	1.31e-05
F18	18	9	0.00e+00
F19	19	9	1.25e-06

Isotope	A	Z	YIELD
Ne20	20	10	1.45e-03
Ne21	21	10	3.73e-06
Ne22	22	10	7.26e-04
Na22	22	11	0.00e+00
Na23	23	11	6.63e-05
Na24	24	11	0.00e+00
Mg24	24	12	7.35e-04
Mg25	25	12	9.63e-05
Mg26	26	12	1.12e-04
Al26	26	13	2.79e-07
Al27	27	13	8.31e-05
Si28	28	14	9.45e-04
Si29	29	14	4.98e-05
Si30	30	14	3.43e-05
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	9.09e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	4.97e-04
S33	33	16	4.12e-06
S34	34	16	2.36e-05
S35	35	16	0.00e+00
S36	36	16	1.16e-07
Cl35	35	17	5.08e-06
Cl36	36	17	1.38e-09
Cl37	37	17	1.89e-06
Ar36	36	18	1.14e-04
Ar37	37	18	0.00e+00
Ar38	38	18	2.20e-05
Ar39	39	18	2.50e-12
Ar40	40	18	5.14e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	4.75e-06
K40	40	19	1.16e-08
K41	41	19	3.93e-07
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	8.53e-05
Ca41	41	20	3.97e-09

Ca42	42	20	6.19e-07		Ni64	64	28	1.23e-06
Ca43	43	20	1.32e-07		Ni65	65	28	0.00e+00
Ca44	44	20	2.04e-06		Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00		Cu63	63	29	9.02e-07
Ca46	46	20	4.69e-09		Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00		Cu65	65	29	4.45e-07
Ca48	48	20	1.98e-07		Cu66	66	29	0.00e+00
Sc45	45	21	5.95e-08		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	1.45e-06
Sc47	47	21	0.00e+00		Zn65	65	30	0.00e+00
Sc48	48	21	0.00e+00		Zn66	66	30	9.14e-07
Sc49	49	21	0.00e+00		Zn67	67	30	1.42e-07
Ti46	46	22	3.40e-07		Zn68	68	30	6.75e-07
Ti47	47	22	3.07e-07		Zn69	69	30	0.00e+00
Ti48	48	22	3.09e-06		Zn70	70	30	1.99e-08
Ti49	49	22	2.51e-07		Ga69	69	31	7.18e-08
Ti50	50	22	2.66e-07		Ga70	70	31	0.00e+00
V50	50	23	1.31e-09		Ga71	71	31	5.63e-08
V51	51	23	5.38e-07		Ga72	72	31	0.00e+00
Cr50	50	24	1.04e-06		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	9.61e-08
Cr52	52	24	2.10e-05		Ge71	71	32	0.00e+00
Cr53	53	24	2.42e-06		Ge72	72	32	1.22e-07
Cr54	54	24	6.56e-07		Ge73	73	32	3.43e-08
Mn55	55	25	1.85e-05		Ge74	74	32	1.64e-07
Mn56	56	25	0.00e+00		Ge75	75	32	0.00e+00
Fe54	54	26	9.99e-05		Ge76	76	32	2.48e-08
Fe55	55	26	1.78e-12		Ge77	77	32	0.00e+00
Fe56	56	26	1.63e-03		As75	75	33	2.08e-08
Fe57	57	26	4.00e-05		As76	76	33	0.00e+00
Fe58	58	26	6.69e-06		As77	77	33	0.00e+00
Fe59	59	26	0.00e+00		Se76	76	34	3.46e-08
Fe60	60	26	2.34e-08		Se77	77	34	2.13e-08
Co59	59	27	5.20e-06		Se78	78	34	7.14e-08
Co60	60	27	0.00e+00		Se79	79	34	3.29e-09
Ni58	58	28	6.87e-05		Se80	80	34	1.50e-07
Ni59	59	28	2.38e-08		Se81	81	34	0.00e+00
Ni60	60	28	2.77e-05		Se82	82	34	1.67e-08
Ni61	61	28	1.33e-06		Br79	79	35	2.07e-08
Ni62	62	28	4.12e-06		Br80	80	35	0.00e+00
Ni63	63	28	8.45e-13		Br81	81	35	2.55e-08

Br82	82	35	0.00e+00		Mo92	92	42	1.39e-09
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	1.43e-09
Kr80	80	36	8.51e-09		Mo95	95	42	7.90e-09
Kr81	81	36	8.82e-10		Mo96	96	42	1.52e-08
Kr82	82	36	5.34e-08		Mo97	97	42	5.67e-09
Kr83	83	36	3.05e-08		Mo98	98	42	1.92e-08
Kr84	84	36	1.67e-07		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	1.15e-09
Kr86	86	36	4.32e-08		Tc97	97	43	5.89e-13
Kr87	87	36	0.00e+00		Tc98	98	43	1.06e-13
Kr88	88	36	0.00e+00		Tc99	99	43	7.29e-10
Rb85	85	37	2.69e-08		Ru96	96	44	3.49e-10
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	1.03e-08		Ru98	98	44	1.21e-10
Rb88	88	37	0.00e+00		Ru99	99	44	2.40e-09
Sr86	86	38	4.37e-08		Ru00	100	44	9.15e-09
Sr87	87	38	2.91e-08		Ru01	101	44	2.94e-09
Sr88	88	38	5.83e-07		Ru02	102	44	1.13e-08
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	1.45e-09
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	1.22e-07		Rh03	103	45	3.27e-09
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	6.89e-09
Y92	92	39	0.00e+00		Pd05	105	46	2.87e-09
Y93	93	39	0.00e+00		Pd06	106	46	8.93e-09
Zr90	90	40	1.36e-07		Pd07	107	46	1.40e-09
Zr91	91	40	3.25e-08		Pd08	108	46	1.07e-08
Zr92	92	40	5.31e-08		Pd09	109	46	0.00e+00
Zr93	93	40	1.29e-08		Pd10	110	46	8.11e-10
Zr94	94	40	7.16e-08		Ag07	107	47	1.04e-09
Zr95	95	40	0.00e+00		Ag09	109	47	3.31e-09
Zr96	96	40	3.65e-09		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	9.53e-11
Nb93	93	41	5.56e-09		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	8.60e-09
Nb95	95	41	0.00e+00		Cd11	111	48	3.45e-09
Nb96	96	41	0.00e+00		Cd12	112	48	1.12e-08
Nb97	97	41	0.00e+00		Cd13	113	48	3.63e-09

Cd14	114	48	1.57e-08		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	2.90e-09
Cd16	116	48	8.09e-10		Xe35	135	54	0.00e+00
In13	113	49	3.16e-11		Xe36	136	54	2.10e-09
In15	115	49	3.46e-09		Cs33	133	55	4.66e-09
Sn14	114	50	1.01e-10		Cs34	134	55	0.00e+00
Sn15	115	50	5.25e-11		Cs35	135	55	6.71e-10
Sn16	116	50	2.12e-08		Cs36	136	55	0.00e+00
Sn17	117	50	6.97e-09		Cs37	137	55	0.00e+00
Sn18	118	50	2.88e-08		Ba34	134	56	8.68e-09
Sn19	119	50	8.98e-09		Ba35	135	56	4.42e-09
Sn20	120	50	4.40e-08		Ba36	136	56	2.25e-08
Sn21	121	50	0.00e+00		Ba37	137	56	1.88e-08
Sn22	122	50	1.20e-09		Ba38	138	56	1.40e-07
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00
Sn24	124	50	9.78e-10		Ba40	140	56	0.00e+00
Sb21	121	51	3.76e-09		La39	139	57	1.62e-08
Sb22	122	51	0.00e+00		La40	140	57	0.00e+00
Sb23	123	51	8.20e-10		Ce40	140	58	3.67e-08
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	7.74e-10
Te22	122	52	5.54e-09		Ce43	143	58	0.00e+00
Te23	123	52	2.00e-09		Ce44	144	58	0.00e+00
Te24	124	52	1.08e-08		Pr41	141	59	3.35e-09
Te25	125	52	4.87e-09		Pr42	142	59	0.00e+00
Te26	126	52	2.21e-08		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	9.10e-09		Nd42	142	60	8.18e-09
Te30	130	52	7.67e-09		Nd43	143	60	1.46e-09
I127	127	53	6.93e-09		Nd44	144	60	3.88e-09
I128	128	53	0.00e+00		Nd45	145	60	8.72e-10
I129	129	53	2.98e-11		Nd46	146	60	3.43e-09
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	3.25e-10
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	2.53e-10
Xe28	128	54	6.12e-09		Pm45	145	61	0.00e+00
Xe29	129	54	9.15e-09		Pm46	146	61	0.00e+00
Xe30	130	54	1.30e-08		Pm47	147	61	0.00e+00
Xe31	131	54	8.82e-09		Pm48	148	61	0.00e+00
Xe32	132	54	2.88e-08		Pm49	149	61	0.00e+00

Pm50	150	61	0.00e+00		Ho65	165	67	7.32e-10
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	4.12e-11		Er64	164	68	9.79e-11
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	8.85e-10
Sm47	147	62	4.91e-10		Er67	167	68	5.23e-10
Sm48	148	62	1.03e-09		Er68	168	68	1.11e-09
Sm49	149	62	3.11e-10		Er69	169	68	0.00e+00
Sm50	150	62	6.32e-10		Er70	170	68	2.92e-10
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	7.63e-10		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	4.01e-10
Sm54	154	62	3.55e-10		Tm70	170	69	0.00e+00
Eu51	151	63	3.21e-10		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00
Eu53	153	63	3.46e-10		Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00		Yb70	170	70	2.75e-10
Eu55	155	63	0.00e+00		Yb71	171	70	4.52e-10
Eu56	156	63	0.00e+00		Yb72	172	70	1.02e-09
Eu57	157	63	0.00e+00		Yb73	173	70	5.66e-10
Gd52	152	64	1.80e-11		Yb74	174	70	1.95e-09
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00
Gd54	154	64	1.76e-10		Yb76	176	70	2.36e-10
Gd55	155	64	3.62e-10		Yb77	177	70	0.00e+00
Gd56	156	64	7.16e-10		Lu75	175	71	4.15e-10
Gd57	157	64	4.53e-10		Lu76	176	71	4.00e-11
Gd58	158	64	1.15e-09		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	3.17e-10
Gd60	160	64	4.38e-10		Hf77	177	72	3.53e-10
Tb59	159	65	4.89e-10		Hf78	178	72	9.99e-10
Tb60	160	65	0.00e+00		Hf79	179	72	3.88e-10
Tb61	161	65	0.00e+00		Hf80	180	72	1.71e-09
Dy60	160	66	2.85e-10		Hf81	181	72	0.00e+00
Dy61	161	66	5.34e-10		Hf82	182	72	1.27e-11
Dy62	162	66	1.07e-09		Hf83	183	72	0.00e+00
Dy63	163	66	7.31e-10		Hf84	184	72	0.00e+00
Dy64	164	66	1.53e-09		Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00		Ta80	180	73	0.00e+00
Dy66	166	66	0.00e+00		Ta81	181	73	4.03e-10
Ho63	163	67	3.20e-13		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta83	183	73	0.00e+00

Isotope	A	Z	
Ta84	184	73	0.00e+00
W180	180	74	9.98e-13
W181	181	74	0.00e+00
W182	182	74	8.59e-10
W183	183	74	5.02e-10
W184	184	74	1.25e-09
W185	185	74	0.00e+00
W186	186	74	4.13e-10
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	3.16e-10
Re86	186	75	0.00e+00
Re87	187	75	2.14e-10
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	4.66e-10
Os87	187	76	2.45e-10
Os88	188	76	1.09e-09
Os89	189	76	8.76e-10
Os90	190	76	1.87e-09
Os91	191	76	0.00e+00
Os92	192	76	1.97e-09
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	1.79e-09
Ir92	192	77	0.00e+00
Ir93	193	77	2.97e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	3.54e-10
Pt93	193	78	0.00e+00
Pt94	194	78	3.93e-09
Pt95	195	78	3.52e-09
Pt96	196	78	3.67e-09
Pt97	197	78	0.00e+00
Pt98	198	78	7.02e-10
Au97	197	79	1.71e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.31e-09
Hg99	199	80	9.43e-10

Isotope	A	Z	
Hg00	200	80	2.16e-09
Hg01	201	80	9.98e-10
Hg02	202	80	3.37e-09
Hg03	203	80	0.00e+00
Hg04	204	80	2.16e-10
Tl03	203	81	1.49e-09
Tl04	204	81	0.00e+00
Tl05	205	81	3.84e-09
Pb04	204	82	2.34e-09
Pb05	205	82	1.35e-10
Pb06	206	82	1.40e-08
Pb07	207	82	1.63e-08
Pb08	208	82	3.15e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	1.15e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M_a = 2.00; Z = 0.014000; IRV = 10 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [M_a]
H	1	1	9.43e-01
He4	4	2	3.97e-01
C12	12	6	8.01e-03
C13	13	6	8.89e-05
C14	14	6	1.17e-10
N14	14	7	2.30e-03
N15	15	7	1.93e-06
O16	16	8	8.28e-03
O17	17	8	3.57e-05
O18	18	8	1.32e-05
F18	18	9	0.00e+00
F19	19	9	1.30e-06
Ne20	20	10	1.46e-03
Ne21	21	10	3.74e-06
Ne22	22	10	6.98e-04

Na22	22	11	0.00e+00
Na23	23	11	6.60e-05
Na24	24	11	0.00e+00
Mg24	24	12	7.37e-04
Mg25	25	12	9.66e-05
Mg26	26	12	1.13e-04
Al26	26	13	2.72e-07
Al27	27	13	8.34e-05
Si28	28	14	9.49e-04
Si29	29	14	5.00e-05
Si30	30	14	3.44e-05
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	9.10e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	4.99e-04
S33	33	16	4.13e-06
S34	34	16	2.37e-05
S35	35	16	0.00e+00
S36	36	16	1.16e-07
Cl35	35	17	5.10e-06
Cl36	36	17	1.30e-09
Cl37	37	17	1.90e-06
Ar36	36	18	1.14e-04
Ar37	37	18	0.00e+00
Ar38	38	18	2.21e-05
Ar39	39	18	2.41e-12
Ar40	40	18	5.04e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	4.77e-06
K40	40	19	1.16e-08
K41	41	19	3.93e-07
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	8.56e-05
Ca41	41	20	3.70e-09
Ca42	42	20	6.22e-07
Ca43	43	20	1.32e-07
Ca44	44	20	2.05e-06

Ca45	45	20	0.00e+00
Ca46	46	20	4.66e-09
Ca47	47	20	0.00e+00
Ca48	48	20	1.99e-07
Sc45	45	21	5.95e-08
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	3.41e-07
Ti47	47	22	3.08e-07
Ti48	48	22	3.10e-06
Ti49	49	22	2.50e-07
Ti50	50	22	2.61e-07
V50	50	23	1.31e-09
V51	51	23	5.39e-07
Cr50	50	24	1.04e-06
Cr51	51	24	0.00e+00
Cr52	52	24	2.11e-05
Cr53	53	24	2.43e-06
Cr54	54	24	6.58e-07
Mn55	55	25	1.85e-05
Mn56	56	25	0.00e+00
Fe54	54	26	1.00e-04
Fe55	55	26	1.55e-12
Fe56	56	26	1.64e-03
Fe57	57	26	4.01e-05
Fe58	58	26	6.76e-06
Fe59	59	26	0.00e+00
Fe60	60	26	1.90e-08
Co59	59	27	5.22e-06
Co60	60	27	0.00e+00
Ni58	58	28	6.90e-05
Ni59	59	28	2.17e-08
Ni60	60	28	2.78e-05
Ni61	61	28	1.34e-06
Ni62	62	28	4.16e-06
Ni63	63	28	7.85e-13
Ni64	64	28	1.24e-06
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00

Cu63	63	29	9.12e-07	Kr80	80	36	8.52e-09
Cu64	64	29	0.00e+00	Kr81	81	36	8.90e-10
Cu65	65	29	4.53e-07	Kr82	82	36	5.28e-08
Cu66	66	29	0.00e+00	Kr83	83	36	3.04e-08
Cu67	67	29	0.00e+00	Kr84	84	36	1.64e-07
Zn64	64	30	1.46e-06	Kr85	85	36	0.00e+00
Zn65	65	30	0.00e+00	Kr86	86	36	4.09e-08
Zn66	66	30	9.24e-07	Kr87	87	36	0.00e+00
Zn67	67	30	1.43e-07	Kr88	88	36	0.00e+00
Zn68	68	30	6.83e-07	Rb85	85	37	2.64e-08
Zn69	69	30	0.00e+00	Rb86	86	37	0.00e+00
Zn70	70	30	2.00e-08	Rb87	87	37	9.17e-09
Ga69	69	31	7.29e-08	Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00	Sr86	86	38	4.23e-08
Ga71	71	31	5.74e-08	Sr87	87	38	2.84e-08
Ga72	72	31	0.00e+00	Sr88	88	38	5.15e-07
Ga73	73	31	0.00e+00	Sr89	89	38	0.00e+00
Ge70	70	32	9.78e-08	Sr90	90	38	0.00e+00
Ge71	71	32	0.00e+00	Sr91	91	38	0.00e+00
Ge72	72	32	1.23e-07	Sr92	92	38	0.00e+00
Ge73	73	32	3.47e-08	Y89	89	39	1.05e-07
Ge74	74	32	1.65e-07	Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00	Y91	91	39	0.00e+00
Ge76	76	32	2.49e-08	Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00	Y93	93	39	0.00e+00
As75	75	33	2.09e-08	Zr90	90	40	1.16e-07
As76	76	33	0.00e+00	Zr91	91	40	2.73e-08
As77	77	33	0.00e+00	Zr92	92	40	4.41e-08
Se76	76	34	3.47e-08	Zr93	93	40	1.05e-08
Se77	77	34	2.14e-08	Zr94	94	40	5.79e-08
Se78	78	34	7.16e-08	Zr95	95	40	0.00e+00
Se79	79	34	3.31e-09	Zr96	96	40	2.63e-09
Se80	80	34	1.49e-07	Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00	Nb93	93	41	4.86e-09
Se82	82	34	1.67e-08	Nb94	94	41	0.00e+00
Br79	79	35	2.07e-08	Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00	Nb96	96	41	0.00e+00
Br81	81	35	2.53e-08	Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00	Mo92	92	42	1.40e-09
Br83	83	35	0.00e+00	Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00	Mo94	94	42	1.31e-09

Mo95	95	42	6.49e-09		In13	113	49	3.18e-11
Mo96	96	42	1.23e-08		In15	115	49	2.78e-09
Mo97	97	42	4.66e-09		Sn14	114	50	1.02e-10
Mo98	98	42	1.56e-08		Sn15	115	50	5.27e-11
Mo99	99	42	0.00e+00		Sn16	116	50	1.65e-08
Mo00	100	42	1.08e-09		Sn17	117	50	5.50e-09
Tc97	97	43	5.58e-13		Sn18	118	50	2.23e-08
Tc98	98	43	1.01e-13		Sn19	119	50	6.97e-09
Tc99	99	43	5.95e-10		Sn20	120	50	3.33e-08
Ru96	96	44	3.50e-10		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	9.68e-10
Ru98	98	44	1.22e-10		Sn23	123	50	0.00e+00
Ru99	99	44	2.05e-09		Sn24	124	50	9.78e-10
Ru00	100	44	7.37e-09		Sb21	121	51	2.95e-09
Ru01	101	44	2.55e-09		Sb22	122	51	0.00e+00
Ru02	102	44	9.26e-09		Sb23	123	51	7.48e-10
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	1.39e-09		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	4.16e-09
Ru06	106	44	0.00e+00		Te23	123	52	1.50e-09
Rh03	103	45	2.85e-09		Te24	124	52	8.08e-09
Rh05	105	45	0.00e+00		Te25	125	52	3.94e-09
Pd04	104	46	5.48e-09		Te26	126	52	1.69e-08
Pd05	105	46	2.50e-09		Te27	127	52	0.00e+00
Pd06	106	46	7.23e-09		Te28	128	52	8.49e-09
Pd07	107	46	1.08e-09		Te30	130	52	7.70e-09
Pd08	108	46	8.55e-09		I127	127	53	6.27e-09
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	7.55e-10		I129	129	53	2.16e-11
Ag07	107	47	1.03e-09		I130	130	53	0.00e+00
Ag09	109	47	2.75e-09		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	8.58e-11		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	4.52e-09
Cd10	110	48	6.75e-09		Xe29	129	54	8.51e-09
Cd11	111	48	2.82e-09		Xe30	130	54	9.48e-09
Cd12	112	48	8.85e-09		Xe31	131	54	7.86e-09
Cd13	113	48	2.94e-09		Xe32	132	54	2.21e-08
Cd14	114	48	1.23e-08		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	2.70e-09
Cd16	116	48	6.61e-10		Xe35	135	54	0.00e+00

Xe36	136	54	2.11e-09		Sm45	145	62	0.00e+00
Cs33	133	55	3.77e-09		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	3.86e-10
Cs35	135	55	3.99e-10		Sm48	148	62	7.03e-10
Cs36	136	55	0.00e+00		Sm49	149	62	2.66e-10
Cs37	137	55	0.00e+00		Sm50	150	62	4.35e-10
Ba34	134	56	6.23e-09		Sm51	151	62	0.00e+00
Ba35	135	56	3.52e-09		Sm52	152	62	6.18e-10
Ba36	136	56	1.59e-08		Sm53	153	62	0.00e+00
Ba37	137	56	1.34e-08		Sm54	154	62	3.44e-10
Ba38	138	56	9.54e-08		Eu51	151	63	2.95e-10
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	3.20e-10
La39	139	57	1.11e-08		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	2.50e-08		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	7.20e-10		Gd52	152	64	1.27e-11
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	1.25e-10
Pr41	141	59	2.42e-09		Gd55	155	64	3.29e-10
Pr42	142	59	0.00e+00		Gd56	156	64	5.93e-10
Pr43	143	59	0.00e+00		Gd57	157	64	3.96e-10
Pr45	145	59	0.00e+00		Gd58	158	64	8.99e-10
Nd42	142	60	5.57e-09		Gd59	159	64	0.00e+00
Nd43	143	60	1.11e-09		Gd60	160	64	4.32e-10
Nd44	144	60	2.82e-09		Tb59	159	65	4.34e-10
Nd45	145	60	6.82e-10		Tb60	160	65	0.00e+00
Nd46	146	60	2.43e-09		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	2.00e-10
Nd48	148	60	2.96e-10		Dy61	161	66	4.96e-10
Nd49	149	60	0.00e+00		Dy62	162	66	8.92e-10
Nd50	150	60	2.54e-10		Dy63	163	66	6.73e-10
Pm45	145	61	0.00e+00		Dy64	164	66	1.20e-09
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	2.27e-13
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	6.60e-10
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	4.14e-11		Er64	164	68	7.22e-11

Er65	165	68	0.00e+00		W182	182	74	6.27e-10
Er66	166	68	7.52e-10		W183	183	74	3.64e-10
Er67	167	68	4.63e-10		W184	184	74	8.89e-10
Er68	168	68	8.58e-10		W185	185	74	0.00e+00
Er69	169	68	0.00e+00		W186	186	74	3.48e-10
Er70	170	68	2.71e-10		W187	187	74	0.00e+00
Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	2.48e-10
Tm69	169	69	3.39e-10		Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00		Re87	187	75	1.99e-10
Tm71	171	69	0.00e+00		Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00		Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00		Os86	186	76	3.22e-10
Yb70	170	70	1.91e-10		Os87	187	76	2.01e-10
Yb71	171	70	3.69e-10		Os88	188	76	9.18e-10
Yb72	172	70	7.70e-10		Os89	189	76	8.31e-10
Yb73	173	70	4.52e-10		Os90	190	76	1.64e-09
Yb74	174	70	1.42e-09		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	1.96e-09
Yb76	176	70	2.24e-10		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	3.43e-10		Ir91	191	77	1.75e-09
Lu76	176	71	2.73e-11		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	2.93e-09
Hf76	176	72	2.21e-10		Ir94	194	77	0.00e+00
Hf77	177	72	2.98e-10		Ir95	195	77	0.00e+00
Hf78	178	72	7.41e-10		Pt92	192	78	2.53e-10
Hf79	179	72	3.00e-10		Pt93	193	78	0.00e+00
Hf80	180	72	1.22e-09		Pt94	194	78	3.66e-09
Hf81	181	72	0.00e+00		Pt95	195	78	3.43e-09
Hf82	182	72	7.35e-12		Pt96	196	78	3.24e-09
Hf83	183	72	0.00e+00		Pt97	197	78	0.00e+00
Hf84	184	72	0.00e+00		Pt98	198	78	7.02e-10
Ta79	179	73	0.00e+00		Au97	197	79	1.61e-09
Ta80	180	73	0.00e+00		Au98	198	79	0.00e+00
Ta81	181	73	3.05e-10		Au99	199	79	0.00e+00
Ta82	182	73	0.00e+00		Hg98	198	80	9.51e-10
Ta83	183	73	0.00e+00		Hg99	199	80	7.89e-10
Ta84	184	73	0.00e+00		Hg00	200	80	1.64e-09
W180	180	74	1.00e-12		Hg01	201	80	7.83e-10
W181	181	74	0.00e+00		Hg02	202	80	2.48e-09

Isotope	A	Z	YIELD
Hg03	203	80	0.00e+00
Hg04	204	80	2.15e-10
Tl03	203	81	1.10e-09
Tl04	204	81	0.00e+00
Tl05	205	81	2.80e-09
Pb04	204	82	1.67e-09
Pb05	205	82	8.61e-11
Pb06	206	82	1.04e-08
Pb07	207	82	1.17e-08
Pb08	208	82	2.34e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	1.11e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 2.00; Z = 0.014000; IRV = 30 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	9.37e-01
He4	4	2	3.95e-01
C12	12	6	8.03e-03
C13	13	6	8.84e-05
C14	14	6	1.45e-10
N14	14	7	2.29e-03
N15	15	7	1.92e-06
O16	16	8	8.24e-03
O17	17	8	3.54e-05
O18	18	8	1.31e-05
F18	18	9	0.00e+00
F19	19	9	1.48e-06
Ne20	20	10	1.45e-03
Ne21	21	10	3.72e-06
Ne22	22	10	7.20e-04
Na22	22	11	0.00e+00
Na23	23	11	6.63e-05
Na24	24	11	0.00e+00

Isotope	A	Z	YIELD
Mg24	24	12	7.35e-04
Mg25	25	12	9.62e-05
Mg26	26	12	1.12e-04
Al26	26	13	2.75e-07
Al27	27	13	8.29e-05
Si28	28	14	9.43e-04
Si29	29	14	4.97e-05
Si30	30	14	3.43e-05
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	9.04e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	4.96e-04
S33	33	16	4.11e-06
S34	34	16	2.36e-05
S35	35	16	0.00e+00
S36	36	16	1.17e-07
Cl35	35	17	5.07e-06
Cl36	36	17	1.31e-09
Cl37	37	17	1.95e-06
Ar36	36	18	1.13e-04
Ar37	37	18	0.00e+00
Ar38	38	18	2.20e-05
Ar39	39	18	2.49e-12
Ar40	40	18	4.95e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	4.74e-06
K40	40	19	1.25e-08
K41	41	19	3.92e-07
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	8.51e-05
Ca41	41	20	3.75e-09
Ca42	42	20	6.21e-07
Ca43	43	20	1.32e-07
Ca44	44	20	2.04e-06
Ca45	45	20	0.00e+00
Ca46	46	20	4.45e-09
Ca47	47	20	0.00e+00

Ca48	48	20	1.97e-07
Sc45	45	21	5.91e-08
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	3.38e-07
Ti47	47	22	3.06e-07
Ti48	48	22	3.08e-06
Ti49	49	22	2.48e-07
Ti50	50	22	2.53e-07
V50	50	23	1.30e-09
V51	51	23	5.36e-07
Cr50	50	24	1.04e-06
Cr51	51	24	0.00e+00
Cr52	52	24	2.09e-05
Cr53	53	24	2.41e-06
Cr54	54	24	6.60e-07
Mn55	55	25	1.84e-05
Mn56	56	25	0.00e+00
Fe54	54	26	9.97e-05
Fe55	55	26	1.55e-12
Fe56	56	26	1.63e-03
Fe57	57	26	3.99e-05
Fe58	58	26	7.09e-06
Fe59	59	26	0.00e+00
Fe60	60	26	1.52e-08
Co59	59	27	5.29e-06
Co60	60	27	0.00e+00
Ni58	58	28	6.85e-05
Ni59	59	28	2.24e-08
Ni60	60	28	2.78e-05
Ni61	61	28	1.37e-06
Ni62	62	28	4.24e-06
Ni63	63	28	8.93e-13
Ni64	64	28	1.30e-06
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	9.43e-07
Cu64	64	29	0.00e+00
Cu65	65	29	4.75e-07

Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	1.47e-06
Zn65	65	30	0.00e+00
Zn66	66	30	9.41e-07
Zn67	67	30	1.47e-07
Zn68	68	30	6.98e-07
Zn69	69	30	0.00e+00
Zn70	70	30	1.99e-08
Ga69	69	31	7.57e-08
Ga70	70	31	0.00e+00
Ga71	71	31	6.01e-08
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	1.02e-07
Ge71	71	32	0.00e+00
Ge72	72	32	1.27e-07
Ge73	73	32	3.57e-08
Ge74	74	32	1.68e-07
Ge75	75	32	0.00e+00
Ge76	76	32	2.47e-08
Ge77	77	32	0.00e+00
As75	75	33	2.11e-08
As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	3.56e-08
Se77	77	34	2.16e-08
Se78	78	34	7.21e-08
Se79	79	34	3.40e-09
Se80	80	34	1.47e-07
Se81	81	34	0.00e+00
Se82	82	34	1.66e-08
Br79	79	35	2.07e-08
Br80	80	35	0.00e+00
Br81	81	35	2.51e-08
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	8.66e-09
Kr81	81	36	8.99e-10
Kr82	82	36	5.16e-08

Kr83	83	36	2.98e-08	Mo98	98	42	9.21e-09
Kr84	84	36	1.58e-07	Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00	Mo00	100	42	1.02e-09
Kr86	86	36	3.50e-08	Tc97	97	43	5.44e-13
Kr87	87	36	0.00e+00	Tc98	98	43	1.03e-13
Kr88	88	36	0.00e+00	Tc99	99	43	3.84e-10
Rb85	85	37	2.49e-08	Ru96	96	44	3.48e-10
Rb86	86	37	0.00e+00	Ru97	97	44	0.00e+00
Rb87	87	37	7.16e-09	Ru98	98	44	1.21e-10
Rb88	88	37	0.00e+00	Ru99	99	44	1.37e-09
Sr86	86	38	3.85e-08	Ru00	100	44	4.20e-09
Sr87	87	38	2.59e-08	Ru01	101	44	1.86e-09
Sr88	88	38	3.72e-07	Ru02	102	44	5.78e-09
Sr89	89	38	0.00e+00	Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00	Ru04	104	44	1.33e-09
Sr91	91	38	0.00e+00	Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00	Ru06	106	44	0.00e+00
Y89	89	39	7.17e-08	Rh03	103	45	2.11e-09
Y90	90	39	0.00e+00	Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00	Pd04	104	46	3.10e-09
Y92	92	39	0.00e+00	Pd05	105	46	1.87e-09
Y93	93	39	0.00e+00	Pd06	106	46	4.42e-09
Zr90	90	40	7.63e-08	Pd07	107	46	5.53e-10
Zr91	91	40	1.74e-08	Pd08	108	46	5.04e-09
Zr92	92	40	2.71e-08	Pd09	109	46	0.00e+00
Zr93	93	40	5.98e-09	Pd10	110	46	7.08e-10
Zr94	94	40	3.37e-08	Ag07	107	47	9.92e-10
Zr95	95	40	0.00e+00	Ag09	109	47	1.83e-09
Zr96	96	40	1.30e-09	Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00	Cd08	108	48	7.02e-11
Nb93	93	41	3.54e-09	Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00	Cd10	110	48	3.75e-09
Nb95	95	41	0.00e+00	Cd11	111	48	1.80e-09
Nb96	96	41	0.00e+00	Cd12	112	48	5.12e-09
Nb97	97	41	0.00e+00	Cd13	113	48	1.83e-09
Mo92	92	42	1.39e-09	Cd14	114	48	6.90e-09
Mo93	93	42	0.00e+00	Cd15	115	48	0.00e+00
Mo94	94	42	1.07e-09	Cd16	116	48	5.56e-10
Mo95	95	42	4.13e-09	In13	113	49	3.16e-11
Mo96	96	42	7.14e-09	In15	115	49	1.71e-09
Mo97	97	42	2.84e-09	Sn14	114	50	1.01e-10

Sn15	115	50	5.24e-11		Cs35	135	55	1.75e-10
Sn16	116	50	8.94e-09		Cs36	136	55	0.00e+00
Sn17	117	50	3.21e-09		Cs37	137	55	0.00e+00
Sn18	118	50	1.23e-08		Ba34	134	56	2.91e-09
Sn19	119	50	3.92e-09		Ba35	135	56	2.30e-09
Sn20	120	50	1.77e-08		Ba36	136	56	7.56e-09
Sn21	121	50	0.00e+00		Ba37	137	56	6.87e-09
Sn22	122	50	8.02e-10		Ba38	138	56	4.63e-08
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00
Sn24	124	50	9.70e-10		Ba40	140	56	0.00e+00
Sb21	121	51	1.77e-09		La39	139	57	5.55e-09
Sb22	122	51	0.00e+00		La40	140	57	0.00e+00
Sb23	123	51	6.84e-10		Ce40	140	58	1.25e-08
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	6.86e-10
Te22	122	52	2.14e-09		Ce43	143	58	0.00e+00
Te23	123	52	7.67e-10		Ce44	144	58	0.00e+00
Te24	124	52	4.14e-09		Pr41	141	59	1.45e-09
Te25	125	52	2.58e-09		Pr42	142	59	0.00e+00
Te26	126	52	9.70e-09		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	7.62e-09		Nd42	142	60	2.75e-09
Te30	130	52	7.65e-09		Nd43	143	60	7.35e-10
I127	127	53	5.29e-09		Nd44	144	60	1.67e-09
I128	128	53	0.00e+00		Nd45	145	60	4.77e-10
I129	129	53	1.21e-11		Nd46	146	60	1.35e-09
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	2.73e-10
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	2.52e-10
Xe28	128	54	2.29e-09		Pm45	145	61	0.00e+00
Xe29	129	54	7.54e-09		Pm46	146	61	0.00e+00
Xe30	130	54	4.74e-09		Pm47	147	61	0.00e+00
Xe31	131	54	6.52e-09		Pm48	148	61	0.00e+00
Xe32	132	54	1.33e-08		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	2.56e-09		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	4.11e-11
Xe36	136	54	2.10e-09		Sm45	145	62	0.00e+00
Cs33	133	55	2.60e-09		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	2.71e-10

Sm48	148	62	3.46e-10		Er68	168	68	5.80e-10
Sm49	149	62	2.17e-10		Er69	169	68	0.00e+00
Sm50	150	62	2.22e-10		Er70	170	68	2.51e-10
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	4.64e-10		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	2.68e-10
Sm54	154	62	3.32e-10		Tm70	170	69	0.00e+00
Eu51	151	63	2.64e-10		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00
Eu53	153	63	2.90e-10		Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00		Yb70	170	70	9.80e-11
Eu55	155	63	0.00e+00		Yb71	171	70	2.76e-10
Eu56	156	63	0.00e+00		Yb72	172	70	4.94e-10
Eu57	157	63	0.00e+00		Yb73	173	70	3.24e-10
Gd52	152	64	6.29e-12		Yb74	174	70	8.29e-10
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00
Gd54	154	64	6.93e-11		Yb76	176	70	2.12e-10
Gd55	155	64	2.93e-10		Yb77	177	70	0.00e+00
Gd56	156	64	4.56e-10		Lu75	175	71	2.62e-10
Gd57	157	64	3.29e-10		Lu76	176	71	1.32e-11
Gd58	158	64	6.26e-10		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	1.15e-10
Gd60	160	64	4.23e-10		Hf77	177	72	2.35e-10
Tb59	159	65	3.72e-10		Hf78	178	72	4.54e-10
Tb60	160	65	0.00e+00		Hf79	179	72	2.03e-10
Tb61	161	65	0.00e+00		Hf80	180	72	6.80e-10
Dy60	160	66	1.06e-10		Hf81	181	72	0.00e+00
Dy61	161	66	4.50e-10		Hf82	182	72	3.42e-12
Dy62	162	66	6.92e-10		Hf83	183	72	0.00e+00
Dy63	163	66	6.05e-10		Hf84	184	72	0.00e+00
Dy64	164	66	8.52e-10		Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00		Ta80	180	73	0.00e+00
Dy66	166	66	0.00e+00		Ta81	181	73	1.96e-10
Ho63	163	67	1.27e-13		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta83	183	73	0.00e+00
Ho65	165	67	5.76e-10		Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00		W180	180	74	9.97e-13
Er64	164	68	4.23e-11		W181	181	74	0.00e+00
Er65	165	68	0.00e+00		W182	182	74	3.59e-10
Er66	166	68	5.98e-10		W183	183	74	2.07e-10
Er67	167	68	3.93e-10		W184	184	74	4.82e-10

Isotope	A	Z	YIELD
W185	185	74	0.00e+00
W186	186	74	2.89e-10
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	1.73e-10
Re86	186	75	0.00e+00
Re87	187	75	1.83e-10
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	1.55e-10
Os87	187	76	1.48e-10
Os88	188	76	7.13e-10
Os89	189	76	7.71e-10
Os90	190	76	1.37e-09
Os91	191	76	0.00e+00
Os92	192	76	1.93e-09
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	1.68e-09
Ir92	192	77	0.00e+00
Ir93	193	77	2.84e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	1.35e-10
Pt93	193	78	0.00e+00
Pt94	194	78	3.32e-09
Pt95	195	78	3.28e-09
Pt96	196	78	2.73e-09
Pt97	197	78	0.00e+00
Pt98	198	78	6.95e-10
Au97	197	79	1.47e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	5.45e-10
Hg99	199	80	6.10e-10
Hg00	200	80	1.03e-09
Hg01	201	80	5.33e-10
Hg02	202	80	1.44e-09
Hg03	203	80	0.00e+00
Hg04	204	80	2.13e-10
Tl03	203	81	6.39e-10

Isotope	A	Z	YIELD
Tl04	204	81	0.00e+00
Tl05	205	81	1.55e-09
Pb04	204	82	8.64e-10
Pb05	205	82	3.37e-11
Pb06	206	82	6.29e-09
Pb07	207	82	6.78e-09
Pb08	208	82	1.64e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	1.06e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M$_\odot$ = 2.00; Z = 0.014000; IRV = 60 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [M$_\odot$]
H	1	1	9.43e-01
He4	4	2	3.97e-01
C12	12	6	7.95e-03
C13	13	6	9.64e-05
C14	14	6	2.63e-10
N14	14	7	2.30e-03
N15	15	7	1.68e-06
O16	16	8	8.28e-03
O17	17	8	3.64e-05
O18	18	8	1.32e-05
F18	18	9	0.00e+00
F19	19	9	1.47e-06
Ne20	20	10	1.46e-03
Ne21	21	10	3.74e-06
Ne22	22	10	7.06e-04
Na22	22	11	0.00e+00
Na23	23	11	6.64e-05
Na24	24	11	0.00e+00
Mg24	24	12	7.39e-04
Mg25	25	12	9.67e-05
Mg26	26	12	1.13e-04

Al26	26	13	2.72e-07		Sc47	47	21	0.00e+00
Al27	27	13	8.34e-05		Sc48	48	21	0.00e+00
Si28	28	14	9.49e-04		Sc49	49	21	0.00e+00
Si29	29	14	5.00e-05		Ti46	46	22	3.40e-07
Si30	30	14	3.44e-05		Ti47	47	22	3.07e-07
Si31	31	14	0.00e+00		Ti48	48	22	3.10e-06
Si32	32	14	0.00e+00		Ti49	49	22	2.49e-07
P31	31	15	9.08e-06		Ti50	50	22	2.52e-07
P32	32	15	0.00e+00		V50	50	23	1.31e-09
P33	33	15	0.00e+00		V51	51	23	5.39e-07
S32	32	16	4.98e-04		Cr50	50	24	1.04e-06
S33	33	16	4.13e-06		Cr51	51	24	0.00e+00
S34	34	16	2.37e-05		Cr52	52	24	2.10e-05
S35	35	16	0.00e+00		Cr53	53	24	2.43e-06
S36	36	16	1.17e-07		Cr54	54	24	6.62e-07
Cl35	35	17	5.09e-06		Mn55	55	25	1.85e-05
Cl36	36	17	1.43e-09		Mn56	56	25	0.00e+00
Cl37	37	17	1.98e-06		Fe54	54	26	1.00e-04
Ar36	36	18	1.14e-04		Fe55	55	26	1.32e-12
Ar37	37	18	0.00e+00		Fe56	56	26	1.64e-03
Ar38	38	18	2.21e-05		Fe57	57	26	4.01e-05
Ar39	39	18	2.49e-12		Fe58	58	26	7.04e-06
Ar40	40	18	4.87e-08		Fe59	59	26	0.00e+00
Ar41	41	18	0.00e+00		Fe60	60	26	2.08e-08
Ar42	42	18	0.00e+00		Co59	59	27	5.29e-06
K39	39	19	4.77e-06		Co60	60	27	0.00e+00
K40	40	19	1.28e-08		Ni58	58	28	6.89e-05
K41	41	19	3.94e-07		Ni59	59	28	2.59e-08
K42	42	19	0.00e+00		Ni60	60	28	2.79e-05
K43	43	19	0.00e+00		Ni61	61	28	1.38e-06
Ca40	40	20	8.56e-05		Ni62	62	28	4.27e-06
Ca41	41	20	4.17e-09		Ni63	63	28	9.27e-13
Ca42	42	20	6.25e-07		Ni64	64	28	1.34e-06
Ca43	43	20	1.33e-07		Ni65	65	28	0.00e+00
Ca44	44	20	2.05e-06		Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00		Cu63	63	29	9.45e-07
Ca46	46	20	4.58e-09		Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00		Cu65	65	29	4.94e-07
Ca48	48	20	1.99e-07		Cu66	66	29	0.00e+00
Sc45	45	21	5.95e-08		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	1.49e-06

Zn65	65	30	0.00e+00		Kr86	86	36	3.77e-08
Zn66	66	30	9.67e-07		Kr87	87	36	0.00e+00
Zn67	67	30	1.52e-07		Kr88	88	36	0.00e+00
Zn68	68	30	7.26e-07		Rb85	85	37	2.62e-08
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	2.00e-08		Rb87	87	37	8.91e-09
Ga69	69	31	8.03e-08		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	3.97e-08
Ga71	71	31	6.44e-08		Sr87	87	38	2.60e-08
Ga72	72	31	0.00e+00		Sr88	88	38	3.24e-07
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	1.10e-07		Sr90	90	38	0.00e+00
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	1.35e-07		Sr92	92	38	0.00e+00
Ge73	73	32	3.77e-08		Y89	89	39	6.17e-08
Ge74	74	32	1.77e-07		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	2.49e-08		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	2.20e-08		Zr90	90	40	6.23e-08
As76	76	33	0.00e+00		Zr91	91	40	1.42e-08
As77	77	33	0.00e+00		Zr92	92	40	2.16e-08
Se76	76	34	3.85e-08		Zr93	93	40	4.33e-09
Se77	77	34	2.29e-08		Zr94	94	40	2.51e-08
Se78	78	34	7.64e-08		Zr95	95	40	0.00e+00
Se79	79	34	3.89e-09		Zr96	96	40	1.44e-09
Se80	80	34	1.54e-07		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	3.23e-09
Se82	82	34	1.67e-08		Nb94	94	41	0.00e+00
Br79	79	35	2.15e-08		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	2.61e-08		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	1.40e-09
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	1.04e-09
Kr80	80	36	9.22e-09		Mo95	95	42	3.31e-09
Kr81	81	36	1.02e-09		Mo96	96	42	5.33e-09
Kr82	82	36	5.54e-08		Mo97	97	42	2.22e-09
Kr83	83	36	3.11e-08		Mo98	98	42	6.88e-09
Kr84	84	36	1.64e-07		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	1.02e-09

Tc97	97	43	5.32e-13		Sn18	118	50	8.93e-09
Tc98	98	43	1.01e-13		Sn19	119	50	2.90e-09
Tc99	99	43	2.86e-10		Sn20	120	50	1.26e-08
Ru96	96	44	3.50e-10		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	7.98e-10
Ru98	98	44	1.21e-10		Sn23	123	50	0.00e+00
Ru99	99	44	1.15e-09		Sn24	124	50	9.75e-10
Ru00	100	44	3.01e-09		Sb21	121	51	1.38e-09
Ru01	101	44	1.60e-09		Sb22	122	51	0.00e+00
Ru02	102	44	4.48e-09		Sb23	123	51	6.66e-10
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	1.32e-09		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	1.47e-09
Ru06	106	44	0.00e+00		Te23	123	52	5.25e-10
Rh03	103	45	1.84e-09		Te24	124	52	2.83e-09
Rh05	105	45	0.00e+00		Te25	125	52	2.15e-09
Pd04	104	46	2.19e-09		Te26	126	52	7.32e-09
Pd05	105	46	1.64e-09		Te27	127	52	0.00e+00
Pd06	106	46	3.37e-09		Te28	128	52	7.40e-09
Pd07	107	46	3.53e-10		Te30	130	52	7.69e-09
Pd08	108	46	3.74e-09		I127	127	53	5.00e-09
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	6.95e-10		I129	129	53	7.93e-12
Ag07	107	47	9.90e-10		I130	130	53	0.00e+00
Ag09	109	47	1.50e-09		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	6.68e-11		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	1.55e-09
Cd10	110	48	2.64e-09		Xe29	129	54	7.27e-09
Cd11	111	48	1.43e-09		Xe30	130	54	3.18e-09
Cd12	112	48	3.78e-09		Xe31	131	54	6.11e-09
Cd13	113	48	1.44e-09		Xe32	132	54	1.04e-08
Cd14	114	48	4.98e-09		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	2.56e-09
Cd16	116	48	5.45e-10		Xe35	135	54	0.00e+00
In13	113	49	3.18e-11		Xe36	136	54	2.11e-09
In15	115	49	1.33e-09		Cs33	133	55	2.23e-09
Sn14	114	50	1.01e-10		Cs34	134	55	0.00e+00
Sn15	115	50	5.27e-11		Cs35	135	55	1.06e-10
Sn16	116	50	6.34e-09		Cs36	136	55	0.00e+00
Sn17	117	50	2.43e-09		Cs37	137	55	0.00e+00

Ba34	134	56	1.84e-09		Sm51	151	62	0.00e+00
Ba35	135	56	1.91e-09		Sm52	152	62	4.21e-10
Ba36	136	56	4.91e-09		Sm53	153	62	0.00e+00
Ba37	137	56	4.87e-09		Sm54	154	62	3.30e-10
Ba38	138	56	3.16e-08		Eu51	151	63	2.57e-10
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	2.83e-10
La39	139	57	3.90e-09		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	8.83e-09		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	6.85e-10		Gd52	152	64	4.96e-12
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	5.47e-11
Pr41	141	59	1.17e-09		Gd55	155	64	2.84e-10
Pr42	142	59	0.00e+00		Gd56	156	64	4.20e-10
Pr43	143	59	0.00e+00		Gd57	157	64	3.12e-10
Pr45	145	59	0.00e+00		Gd58	158	64	5.50e-10
Nd42	142	60	1.93e-09		Gd59	159	64	0.00e+00
Nd43	143	60	6.29e-10		Gd60	160	64	4.23e-10
Nd44	144	60	1.35e-09		Tb59	159	65	3.56e-10
Nd45	145	60	4.19e-10		Tb60	160	65	0.00e+00
Nd46	146	60	1.05e-09		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	7.99e-11
Nd48	148	60	2.66e-10		Dy61	161	66	4.40e-10
Nd49	149	60	0.00e+00		Dy62	162	66	6.39e-10
Nd50	150	60	2.54e-10		Dy63	163	66	5.89e-10
Pm45	145	61	0.00e+00		Dy64	164	66	7.54e-10
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	1.03e-13
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	5.55e-10
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	4.14e-11		Er64	164	68	3.38e-11
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	5.60e-10
Sm47	147	62	2.37e-10		Er67	167	68	3.75e-10
Sm48	148	62	2.47e-10		Er68	168	68	5.01e-10
Sm49	149	62	2.04e-10		Er69	169	68	0.00e+00
Sm50	150	62	1.61e-10		Er70	170	68	2.45e-10

Er71	171	68	0.00e+00	W188	188	74	0.00e+00
Er72	172	68	0.00e+00	Re85	185	75	1.51e-10
Tm69	169	69	2.48e-10	Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00	Re87	187	75	1.78e-10
Tm71	171	69	0.00e+00	Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00	Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00	Os86	186	76	1.12e-10
Yb70	170	70	7.28e-11	Os87	187	76	1.35e-10
Yb71	171	70	2.50e-10	Os88	188	76	6.61e-10
Yb72	172	70	4.18e-10	Os89	189	76	7.60e-10
Yb73	173	70	2.89e-10	Os90	190	76	1.30e-09
Yb74	174	70	6.63e-10	Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00	Os92	192	76	1.93e-09
Yb76	176	70	2.09e-10	Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00	Os94	194	76	0.00e+00
Lu75	175	71	2.40e-10	Ir91	191	77	1.67e-09
Lu76	176	71	9.15e-12	Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00	Ir93	193	77	2.84e-09
Hf76	176	72	8.53e-11	Ir94	194	77	0.00e+00
Hf77	177	72	2.18e-10	Ir95	195	77	0.00e+00
Hf78	178	72	3.75e-10	Pt92	192	78	1.06e-10
Hf79	179	72	1.76e-10	Pt93	193	78	0.00e+00
Hf80	180	72	5.29e-10	Pt94	194	78	3.24e-09
Hf81	181	72	0.00e+00	Pt95	195	78	3.26e-09
Hf82	182	72	2.00e-12	Pt96	196	78	2.60e-09
Hf83	183	72	0.00e+00	Pt97	197	78	0.00e+00
Hf84	184	72	0.00e+00	Pt98	198	78	6.98e-10
Ta79	179	73	0.00e+00	Au97	197	79	1.44e-09
Ta80	180	73	0.00e+00	Au98	198	79	0.00e+00
Ta81	181	73	1.66e-10	Au99	199	79	0.00e+00
Ta82	182	73	0.00e+00	Hg98	198	80	4.32e-10
Ta83	183	73	0.00e+00	Hg99	199	80	5.62e-10
Ta84	184	73	0.00e+00	Hg00	200	80	8.62e-10
W180	180	74	1.00e-12	Hg01	201	80	4.65e-10
W181	181	74	0.00e+00	Hg02	202	80	1.16e-09
W182	182	74	2.89e-10	Hg03	203	80	0.00e+00
W183	183	74	1.63e-10	Hg04	204	80	2.14e-10
W184	184	74	3.67e-10	Tl03	203	81	5.15e-10
W185	185	74	0.00e+00	Tl04	204	81	0.00e+00
W186	186	74	2.68e-10	Tl05	205	81	1.23e-09
W187	187	74	0.00e+00	Pb04	204	82	6.51e-10

Isotope	A	Z	YIELD [$M_\odot$]
Pb05	205	82	1.65e-11
Pb06	206	82	5.29e-09
Pb07	207	82	5.73e-09
Pb08	208	82	1.52e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	1.06e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M_α = 2.00; Z = 0.020000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	9.35e-01
He4	4	2	3.99e-01
C12	12	6	9.42e-03
C13	13	6	1.31e-04
C14	14	6	3.38e-09
N14	14	7	3.26e-03
N15	15	7	2.89e-06
O16	16	8	1.19e-02
O17	17	8	4.01e-05
O18	18	8	1.95e-05
F18	18	9	0.00e+00
F19	19	9	1.71e-06
Ne20	20	10	2.12e-03
Ne21	21	10	5.40e-06
Ne22	22	10	9.94e-04
Na22	22	11	0.00e+00
Na23	23	11	9.60e-05
Na24	24	11	0.00e+00
Mg24	24	12	1.07e-03
Mg25	25	12	1.40e-04
Mg26	26	12	1.64e-04
Al26	26	13	5.08e-07
Al27	27	13	1.21e-04
Si28	28	14	1.38e-03
Si29	29	14	7.26e-05
Si30	30	14	5.00e-05
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	1.32e-05
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	7.24e-04
S33	33	16	6.01e-06
S34	34	16	3.44e-05
S35	35	16	0.00e+00
S36	36	16	1.68e-07
Cl35	35	17	7.41e-06
Cl36	36	17	2.19e-09
Cl37	37	17	2.76e-06
Ar36	36	18	1.66e-04
Ar37	37	18	0.00e+00
Ar38	38	18	3.21e-05
Ar39	39	18	2.53e-12
Ar40	40	18	7.15e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	6.93e-06
K40	40	19	1.65e-08
K41	41	19	5.73e-07
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	1.24e-04
Ca41	41	20	6.74e-09
Ca42	42	20	9.03e-07
Ca43	43	20	1.92e-07
Ca44	44	20	2.98e-06
Ca45	45	20	0.00e+00
Ca46	46	20	6.78e-09
Ca47	47	20	0.00e+00
Ca48	48	20	2.89e-07
Sc45	45	21	8.64e-08
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00

Ti46	46	22	4.94e-07		Zn68	68	30	1.00e-06
Ti47	47	22	4.47e-07		Zn69	69	30	0.00e+00
Ti48	48	22	4.51e-06		Zn70	70	30	2.91e-08
Ti49	49	22	3.64e-07		Ga69	69	31	1.08e-07
Ti50	50	22	3.73e-07		Ga70	70	31	0.00e+00
V50	50	23	1.91e-09		Ga71	71	31	8.53e-08
V51	51	23	7.84e-07		Ga72	72	31	0.00e+00
Cr50	50	24	1.52e-06		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	1.46e-07
Cr52	52	24	3.06e-05		Ge71	71	32	0.00e+00
Cr53	53	24	3.53e-06		Ge72	72	32	1.83e-07
Cr54	54	24	9.57e-07		Ge73	73	32	5.15e-08
Mn55	55	25	2.70e-05		Ge74	74	32	2.47e-07
Mn56	56	25	0.00e+00		Ge75	75	32	0.00e+00
Fe54	54	26	1.46e-04		Ge76	76	32	3.61e-08
Fe55	55	26	1.40e-12		Ge77	77	32	0.00e+00
Fe56	56	26	2.38e-03		As75	75	33	3.09e-08
Fe57	57	26	5.83e-05		As76	76	33	0.00e+00
Fe58	58	26	9.80e-06		As77	77	33	0.00e+00
Fe59	59	26	0.00e+00		Se76	76	34	5.29e-08
Fe60	60	26	3.54e-08		Se77	77	34	3.21e-08
Co59	59	27	7.59e-06		Se78	78	34	1.08e-07
Co60	60	27	1.24e-13		Se79	79	34	4.79e-09
Ni58	58	28	1.00e-04		Se80	80	34	2.26e-07
Ni59	59	28	3.89e-08		Se81	81	34	0.00e+00
Ni60	60	28	4.04e-05		Se82	82	34	2.43e-08
Ni61	61	28	1.95e-06		Br79	79	35	3.08e-08
Ni62	62	28	6.04e-06		Br80	80	35	0.00e+00
Ni63	63	28	7.57e-13		Br81	81	35	3.81e-08
Ni64	64	28	1.82e-06		Br82	82	35	0.00e+00
Ni65	65	28	0.00e+00		Br83	83	35	0.00e+00
Ni66	66	28	0.00e+00		Br84	84	35	0.00e+00
Cu63	63	29	1.32e-06		Kr80	80	36	1.35e-08
Cu64	64	29	0.00e+00		Kr81	81	36	1.50e-09
Cu65	65	29	6.60e-07		Kr82	82	36	8.04e-08
Cu66	66	29	0.00e+00		Kr83	83	36	4.52e-08
Cu67	67	29	0.00e+00		Kr84	84	36	2.47e-07
Zn64	64	30	2.13e-06		Kr85	85	36	0.00e+00
Zn65	65	30	0.00e+00		Kr86	86	36	5.69e-08
Zn66	66	30	1.35e-06		Kr87	87	36	0.00e+00
Zn67	67	30	2.09e-07		Kr88	88	36	0.00e+00

Rb85	85	37	3.96e-08		Ru96	96	44	5.09e-10
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	1.36e-08		Ru98	98	44	1.77e-10
Rb88	88	37	0.00e+00		Ru99	99	44	2.53e-09
Sr86	86	38	6.57e-08		Ru00	100	44	8.26e-09
Sr87	87	38	4.36e-08		Ru01	101	44	3.18e-09
Sr88	88	38	7.09e-07		Ru02	102	44	1.07e-08
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	1.95e-09
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	1.39e-07		Rh03	103	45	3.56e-09
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	6.12e-09
Y92	92	39	0.00e+00		Pd05	105	46	3.15e-09
Y93	93	39	0.00e+00		Pd06	106	46	8.24e-09
Zr90	90	40	1.48e-07		Pd07	107	46	1.14e-09
Zr91	91	40	3.37e-08		Pd08	108	46	9.52e-09
Zr92	92	40	5.32e-08		Pd09	109	46	0.00e+00
Zr93	93	40	1.21e-08		Pd10	110	46	1.03e-09
Zr94	94	40	6.68e-08		Ag07	107	47	1.47e-09
Zr95	95	40	0.00e+00		Ag09	109	47	3.26e-09
Zr96	96	40	2.52e-09		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	1.21e-10
Nb93	93	41	6.37e-09		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	7.31e-09
Nb95	95	41	0.00e+00		Cd11	111	48	3.25e-09
Nb96	96	41	0.00e+00		Cd12	112	48	9.65e-09
Nb97	97	41	0.00e+00		Cd13	113	48	3.33e-09
Mo92	92	42	2.03e-09		Cd14	114	48	1.31e-08
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	1.80e-09		Cd16	116	48	8.43e-10
Mo95	95	42	7.72e-09		In13	113	49	4.61e-11
Mo96	96	42	1.40e-08		In15	115	49	3.10e-09
Mo97	97	42	5.39e-09		Sn14	114	50	1.48e-10
Mo98	98	42	1.78e-08		Sn15	115	50	7.66e-11
Mo99	99	42	0.00e+00		Sn16	116	50	1.71e-08
Mo00	100	42	1.52e-09		Sn17	117	50	5.92e-09
Tc97	97	43	1.01e-12		Sn18	118	50	2.29e-08
Tc98	98	43	1.66e-13		Sn19	119	50	7.24e-09
Tc99	99	43	6.41e-10		Sn20	120	50	3.28e-08

Sn21	121	50	0.00e+00		Ba37	137	56	1.19e-08
Sn22	122	50	1.21e-09		Ba38	138	56	7.94e-08
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00
Sn24	124	50	1.42e-09		Ba40	140	56	0.00e+00
Sb21	121	51	3.11e-09		La39	139	57	9.44e-09
Sb22	122	51	0.00e+00		La40	140	57	0.00e+00
Sb23	123	51	9.98e-10		Ce40	140	58	2.18e-08
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	1.01e-09
Te22	122	52	4.05e-09		Ce43	143	58	0.00e+00
Te23	123	52	1.46e-09		Ce44	144	58	0.00e+00
Te24	124	52	7.69e-09		Pr41	141	59	2.37e-09
Te25	125	52	4.34e-09		Pr42	142	59	0.00e+00
Te26	126	52	1.70e-08		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	1.15e-08		Nd42	142	60	4.88e-09
Te30	130	52	1.12e-08		Nd43	143	60	1.18e-09
I127	127	53	8.09e-09		Nd44	144	60	2.80e-09
I128	128	53	0.00e+00		Nd45	145	60	7.58e-10
I129	129	53	1.54e-11		Nd46	146	60	2.34e-09
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	3.96e-10
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	3.69e-10
Xe28	128	54	4.21e-09		Pm45	145	61	0.00e+00
Xe29	129	54	1.14e-08		Pm46	146	61	0.00e+00
Xe30	130	54	8.68e-09		Pm47	147	61	0.00e+00
Xe31	131	54	9.98e-09		Pm48	148	61	0.00e+00
Xe32	132	54	2.24e-08		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	3.77e-09		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	6.01e-11
Xe36	136	54	3.07e-09		Sm45	145	62	0.00e+00
Cs33	133	55	4.17e-09		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	4.27e-10
Cs35	135	55	2.88e-10		Sm48	148	62	6.38e-10
Cs36	136	55	0.00e+00		Sm49	149	62	3.33e-10
Cs37	137	55	0.00e+00		Sm50	150	62	3.95e-10
Ba34	134	56	5.39e-09		Sm51	151	62	0.00e+00
Ba35	135	56	3.75e-09		Sm52	152	62	7.20e-10
Ba36	136	56	1.35e-08		Sm53	153	62	0.00e+00

Sm54	154	62	4.84e-10		Tm70	170	69	0.00e+00
Eu51	151	63	3.94e-10		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00
Eu53	153	63	4.31e-10		Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00		Yb70	170	70	1.83e-10
Eu55	155	63	0.00e+00		Yb71	171	70	4.32e-10
Eu56	156	63	0.00e+00		Yb72	172	70	8.28e-10
Eu57	157	63	0.00e+00		Yb73	173	70	5.20e-10
Gd52	152	64	1.43e-11		Yb74	174	70	1.43e-09
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00
Gd54	154	64	1.26e-10		Yb76	176	70	3.09e-10
Gd55	155	64	4.39e-10		Yb77	177	70	0.00e+00
Gd56	156	64	7.19e-10		Lu75	175	71	4.11e-10
Gd57	157	64	5.05e-10		Lu76	176	71	2.42e-11
Gd58	158	64	1.01e-09		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	2.11e-10
Gd60	160	64	6.17e-10		Hf77	177	72	3.67e-10
Tb59	159	65	5.64e-10		Hf78	178	72	7.74e-10
Tb60	160	65	0.00e+00		Hf79	179	72	3.33e-10
Tb61	161	65	0.00e+00		Hf80	180	72	1.20e-09
Dy60	160	66	1.91e-10		Hf81	181	72	0.00e+00
Dy61	161	66	6.73e-10		Hf82	182	72	4.65e-12
Dy62	162	66	1.08e-09		Hf83	183	72	0.00e+00
Dy63	163	66	9.06e-10		Hf84	184	72	0.00e+00
Dy64	164	66	1.37e-09		Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00		Ta80	180	73	0.00e+00
Dy66	166	66	0.00e+00		Ta81	181	73	3.26e-10
Ho63	163	67	1.13e-12		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta83	183	73	0.00e+00
Ho65	165	67	8.68e-10		Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00		W180	180	74	1.46e-12
Er64	164	68	7.11e-11		W181	181	74	0.00e+00
Er65	165	68	0.00e+00		W182	182	74	6.50e-10
Er66	166	68	9.39e-10		W183	183	74	3.64e-10
Er67	167	68	6.00e-10		W184	184	74	8.64e-10
Er68	168	68	9.46e-10		W185	185	74	0.00e+00
Er69	169	68	0.00e+00		W186	186	74	4.20e-10
Er70	170	68	3.64e-10		W187	187	74	0.00e+00
Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	2.79e-10
Tm69	169	69	4.14e-10		Re86	186	75	0.00e+00

Isotope	A	Z	YIELD [M$_\odot$]
Re87	187	75	2.62e-10
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	3.06e-10
Os87	187	76	2.49e-10
Os88	188	76	1.13e-09
Os89	189	76	1.15e-09
Os90	190	76	2.11e-09
Os91	191	76	0.00e+00
Os92	192	76	2.81e-09
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	2.48e-09
Ir92	192	77	0.00e+00
Ir93	193	77	4.18e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	2.67e-10
Pt93	193	78	0.00e+00
Pt94	194	78	4.99e-09
Pt95	195	78	4.84e-09
Pt96	196	78	4.20e-09
Pt97	197	78	0.00e+00
Pt98	198	78	1.02e-09
Au97	197	79	2.19e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	9.67e-10
Hg99	199	80	9.62e-10
Hg00	200	80	1.76e-09
Hg01	201	80	8.82e-10
Hg02	202	80	2.57e-09
Hg03	203	80	0.00e+00
Hg04	204	80	3.12e-10
Tl03	203	81	1.13e-09
Tl04	204	81	0.00e+00
Tl05	205	81	2.84e-09
Pb04	204	82	1.64e-09
Pb05	205	82	6.22e-11
Pb06	206	82	1.09e-08
Pb07	207	82	1.16e-08
Pb08	208	82	2.55e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	1.56e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M$_\odot$ = 2.50; Z = 0.000100 [α/Fe]=0.5; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [M$_\odot$]
H	1	1	1.24e+00
He4	4	2	4.76e-01
C12	12	6	1.42e-02
C13	13	6	6.90e-06
C14	14	6	2.58e-08
N14	14	7	3.90e-05
N15	15	7	1.76e-08
O16	16	8	5.96e-04
O17	17	8	1.34e-06
O18	18	8	1.09e-07
F18	18	9	0.00e+00
F19	19	9	4.66e-07
Ne20	20	10	4.82e-05
Ne21	21	10	9.63e-07
Ne22	22	10	6.86e-04
Na22	22	11	0.00e+00
Na23	23	11	9.60e-06
Na24	24	11	0.00e+00
Mg24	24	12	2.64e-05
Mg25	25	12	3.03e-05
Mg26	26	12	4.19e-05
Al26	26	13	2.15e-08
Al27	27	13	3.96e-06
Si28	28	14	3.21e-05
Si29	29	14	1.02e-06
Si30	30	14	1.06e-06
Si31	31	14	0.00e+00

Si32	32	14	4.02e-12		Ti49	49	22	2.81e-09
P31	31	15	4.50e-07		Ti50	50	22	5.38e-09
P32	32	15	0.00e+00		V50	50	23	1.20e-11
P33	33	15	0.00e+00		V51	51	23	5.15e-09
S32	32	16	1.47e-05		Cr50	50	24	9.57e-09
S33	33	16	4.82e-08		Cr51	51	24	0.00e+00
S34	34	16	3.35e-07		Cr52	52	24	1.95e-07
S35	35	16	0.00e+00		Cr53	53	24	2.26e-08
S36	36	16	8.22e-09		Cr54	54	24	9.26e-09
Cl35	35	17	4.90e-08		Mn55	55	25	1.69e-07
Cl36	36	17	9.83e-11		Mn56	56	25	0.00e+00
Cl37	37	17	2.28e-08		Fe54	54	26	9.19e-07
Ar36	36	18	3.32e-06		Fe55	55	26	0.00e+00
Ar37	37	18	0.00e+00		Fe56	56	26	1.51e-05
Ar38	38	18	2.36e-07		Fe57	57	26	3.86e-07
Ar39	39	18	1.13e-11		Fe58	58	26	1.76e-07
Ar40	40	18	7.63e-09		Fe59	59	26	0.00e+00
Ar41	41	18	0.00e+00		Fe60	60	26	9.75e-08
Ar42	42	18	0.00e+00		Co59	59	27	9.79e-08
K39	39	19	5.20e-08		Co60	60	27	1.98e-13
K40	40	19	1.69e-10		Ni58	58	28	6.32e-07
K41	41	19	5.38e-09		Ni59	59	28	2.66e-11
K42	42	19	0.00e+00		Ni60	60	28	2.82e-07
K43	43	19	0.00e+00		Ni61	61	28	2.96e-08
Ca40	40	20	2.50e-06		Ni62	62	28	7.85e-08
Ca41	41	20	1.39e-10		Ni63	63	28	7.07e-12
Ca42	42	20	8.45e-09		Ni64	64	28	5.88e-08
Ca43	43	20	2.03e-09		Ni65	65	28	0.00e+00
Ca44	44	20	2.24e-08		Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00		Cu63	63	29	3.29e-08
Ca46	46	20	1.88e-09		Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00		Cu65	65	29	1.48e-08
Ca48	48	20	1.92e-09		Cu66	66	29	0.00e+00
Sc45	45	21	1.62e-09		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	1.33e-08
Sc47	47	21	0.00e+00		Zn65	65	30	0.00e+00
Sc48	48	21	0.00e+00		Zn66	66	30	1.58e-08
Sc49	49	21	0.00e+00		Zn67	67	30	2.95e-09
Ti46	46	22	3.61e-09		Zn68	68	30	1.64e-08
Ti47	47	22	3.16e-09		Zn69	69	30	0.00e+00
Ti48	48	22	2.89e-08		Zn70	70	30	5.50e-10

Ga69	69	31	2.06e-09	Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00	Sr86	86	38	4.82e-10
Ga71	71	31	1.50e-09	Sr87	87	38	2.05e-10
Ga72	72	31	0.00e+00	Sr88	88	38	5.60e-09
Ga73	73	31	0.00e+00	Sr89	89	38	0.00e+00
Ge70	70	32	2.89e-09	Sr90	90	38	0.00e+00
Ge71	71	32	0.00e+00	Sr91	91	38	0.00e+00
Ge72	72	32	3.20e-09	Sr92	92	38	0.00e+00
Ge73	73	32	9.43e-10	Y89	89	39	1.63e-09
Ge74	74	32	5.31e-09	Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00	Y91	91	39	0.00e+00
Ge76	76	32	6.69e-10	Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00	Y93	93	39	0.00e+00
As75	75	33	5.86e-10	Zr90	90	40	1.40e-09
As76	76	33	0.00e+00	Zr91	91	40	4.40e-10
As77	77	33	0.00e+00	Zr92	92	40	7.17e-10
Se76	76	34	1.11e-09	Zr93	93	40	2.40e-10
Se77	77	34	5.32e-10	Zr94	94	40	9.67e-10
Se78	78	34	2.91e-09	Zr95	95	40	0.00e+00
Se79	79	34	3.74e-10	Zr96	96	40	7.80e-10
Se80	80	34	3.83e-09	Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00	Nb93	93	41	4.56e-11
Se82	82	34	6.93e-10	Nb94	94	41	0.00e+00
Br79	79	35	3.15e-10	Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00	Nb96	96	41	0.00e+00
Br81	81	35	6.65e-10	Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00	Mo92	92	42	1.28e-11
Br83	83	35	0.00e+00	Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00	Mo94	94	42	8.20e-12
Kr80	80	36	6.41e-11	Mo95	95	42	1.41e-10
Kr81	81	36	5.96e-12	Mo96	96	42	2.12e-10
Kr82	82	36	1.31e-09	Mo97	97	42	1.05e-10
Kr83	83	36	6.05e-10	Mo98	98	42	3.39e-10
Kr84	84	36	3.70e-09	Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00	Mo00	100	42	5.60e-11
Kr86	86	36	4.40e-09	Tc97	97	43	0.00e+00
Kr87	87	36	0.00e+00	Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00	Tc99	99	43	2.66e-11
Rb85	85	37	1.11e-09	Ru96	96	44	3.23e-12
Rb86	86	37	0.00e+00	Ru97	97	44	0.00e+00
Rb87	87	37	2.12e-09	Ru98	98	44	1.11e-12

Ru99	99	44	2.58e-11		Sn24	124	50	2.08e-10
Ru00	100	44	1.46e-10		Sb21	121	51	6.04e-11
Ru01	101	44	4.49e-11		Sb22	122	51	0.00e+00
Ru02	102	44	2.26e-10		Sb23	123	51	4.84e-11
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	4.88e-11		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	7.70e-11
Ru06	106	44	0.00e+00		Te23	123	52	2.54e-11
Rh03	103	45	5.05e-11		Te24	124	52	2.00e-10
Rh05	105	45	0.00e+00		Te25	125	52	8.50e-11
Pd04	104	46	1.02e-10		Te26	126	52	3.88e-10
Pd05	105	46	4.11e-11		Te27	127	52	0.00e+00
Pd06	106	46	1.46e-10		Te28	128	52	1.50e-10
Pd07	107	46	2.53e-11		Te30	130	52	7.06e-11
Pd08	108	46	1.74e-10		I127	127	53	8.94e-11
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	4.34e-11		I129	129	53	2.84e-12
Ag07	107	47	9.54e-12		I130	130	53	0.00e+00
Ag09	109	47	5.55e-11		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	5.14e-13		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	1.09e-10
Cd10	110	48	1.25e-10		Xe29	129	54	1.10e-10
Cd11	111	48	5.35e-11		Xe30	130	54	2.22e-10
Cd12	112	48	1.85e-10		Xe31	131	54	1.11e-10
Cd13	113	48	5.66e-11		Xe32	132	54	4.38e-10
Cd14	114	48	2.53e-10		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	3.73e-10
Cd16	116	48	1.04e-10		Xe35	135	54	0.00e+00
In13	113	49	2.94e-13		Xe36	136	54	2.70e-10
In15	115	49	5.54e-11		Cs33	133	55	7.13e-11
Sn14	114	50	9.32e-13		Cs34	134	55	0.00e+00
Sn15	115	50	4.84e-13		Cs35	135	55	7.68e-11
Sn16	116	50	2.71e-10		Cs36	136	55	0.00e+00
Sn17	117	50	1.05e-10		Cs37	137	55	0.00e+00
Sn18	118	50	4.67e-10		Ba34	134	56	1.03e-10
Sn19	119	50	1.41e-10		Ba35	135	56	4.49e-11
Sn20	120	50	7.11e-10		Ba36	136	56	3.36e-10
Sn21	121	50	0.00e+00		Ba37	137	56	8.29e-10
Sn22	122	50	4.02e-10		Ba38	138	56	4.84e-09
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00

Ba40	140	56	0.00e+00		Eu53	153	63	1.58e-11
La39	139	57	6.07e-10		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	1.35e-09		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	4.39e-10		Gd52	152	64	9.00e-13
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	1.64e-11
Pr41	141	59	1.77e-10		Gd55	155	64	2.17e-11
Pr42	142	59	0.00e+00		Gd56	156	64	6.08e-11
Pr43	143	59	0.00e+00		Gd57	157	64	2.96e-11
Pr45	145	59	0.00e+00		Gd58	158	64	1.06e-10
Nd42	142	60	2.50e-10		Gd59	159	64	0.00e+00
Nd43	143	60	9.62e-11		Gd60	160	64	3.93e-11
Nd44	144	60	3.97e-10		Tb59	159	65	2.76e-11
Nd45	145	60	7.53e-11		Tb60	160	65	0.00e+00
Nd46	146	60	3.44e-10		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	3.39e-11
Nd48	148	60	8.29e-11		Dy61	161	66	2.38e-11
Nd49	149	60	0.00e+00		Dy62	162	66	8.63e-11
Nd50	150	60	7.67e-12		Dy63	163	66	3.06e-11
Pm45	145	61	0.00e+00		Dy64	164	66	1.27e-10
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	2.55e-13
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	3.84e-11
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	3.80e-13		Er64	164	68	1.53e-11
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	5.39e-11
Sm47	147	62	4.18e-11		Er67	167	68	2.74e-11
Sm48	148	62	7.53e-11		Er68	168	68	9.87e-11
Sm49	149	62	1.97e-11		Er69	169	68	0.00e+00
Sm50	150	62	7.39e-11		Er70	170	68	6.12e-11
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	6.86e-11		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	2.26e-11
Sm54	154	62	4.27e-11		Tm70	170	69	0.00e+00
Eu51	151	63	1.31e-11		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00

Tm73	173	69	0.00e+00		Os86	186	76	4.84e-11
Yb70	170	70	2.80e-11		Os87	187	76	1.37e-11
Yb71	171	70	4.72e-11		Os88	188	76	1.41e-10
Yb72	172	70	1.07e-10		Os89	189	76	3.68e-11
Yb73	173	70	5.17e-11		Os90	190	76	1.68e-10
Yb74	174	70	2.32e-10		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	1.38e-10
Yb76	176	70	7.78e-11		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	3.42e-11		Ir91	191	77	4.60e-11
Lu76	176	71	5.52e-12		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	7.03e-11
Hf76	176	72	4.05e-11		Ir94	194	77	0.00e+00
Hf77	177	72	3.16e-11		Ir95	195	77	0.00e+00
Hf78	178	72	1.32e-10		Pt92	192	78	3.97e-11
Hf79	179	72	4.64e-11		Pt93	193	78	0.00e+00
Hf80	180	72	2.41e-10		Pt94	194	78	2.51e-10
Hf81	181	72	0.00e+00		Pt95	195	78	1.11e-10
Hf82	182	72	3.18e-11		Pt96	196	78	2.80e-10
Hf83	183	72	0.00e+00		Pt97	197	78	0.00e+00
Hf84	184	72	0.00e+00		Pt98	198	78	6.23e-11
Ta79	179	73	0.00e+00		Au97	197	79	8.82e-11
Ta80	180	73	0.00e+00		Au98	198	79	0.00e+00
Ta81	181	73	5.30e-11		Au99	199	79	0.00e+00
Ta82	182	73	0.00e+00		Hg98	198	80	1.98e-10
Ta83	183	73	0.00e+00		Hg99	199	80	1.08e-10
Ta84	184	73	0.00e+00		Hg00	200	80	3.29e-10
W180	180	74	0.00e+00		Hg01	201	80	1.39e-10
W181	181	74	0.00e+00		Hg02	202	80	5.00e-10
W182	182	74	8.56e-11		Hg03	203	80	0.00e+00
W183	183	74	6.52e-11		Hg04	204	80	6.99e-11
W184	184	74	1.59e-10		Tl03	203	81	2.31e-10
W185	185	74	0.00e+00		Tl04	204	81	0.00e+00
W186	186	74	8.58e-11		Tl05	205	81	3.81e-10
W187	187	74	0.00e+00		Pb04	204	82	2.25e-10
W188	188	74	0.00e+00		Pb05	205	82	1.34e-11
Re85	185	75	3.35e-11		Pb06	206	82	4.47e-09
Re86	186	75	0.00e+00		Pb07	207	82	4.70e-09
Re87	187	75	2.46e-11		Pb08	208	82	1.34e-07
Re88	188	75	0.00e+00		Pb09	209	82	0.00e+00
Re89	189	75	0.00e+00		Pb10	210	82	0.00e+00

Isotope	A	Z	YIELD [$M_\odot$]
Bi09	209	83	3.61e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 2.50; Z = 0.000300 [α/Fe]=0.5; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	1.28e+00
He4	4	2	4.69e-01
C12	12	6	1.00e-02
C13	13	6	2.66e-06
C14	14	6	1.86e-09
N14	14	7	9.15e-05
N15	15	7	4.08e-08
O16	16	8	9.51e-04
O17	17	8	4.66e-06
O18	18	8	3.16e-07
F18	18	9	0.00e+00
F19	19	9	1.27e-06
Ne20	20	10	1.30e-04
Ne21	21	10	3.36e-07
Ne22	22	10	4.37e-04
Na22	22	11	0.00e+00
Na23	23	11	5.94e-06
Na24	24	11	0.00e+00
Mg24	24	12	6.69e-05
Mg25	25	12	1.25e-05
Mg26	26	12	1.48e-05
Al26	26	13	2.86e-08
Al27	27	13	5.51e-06
Si28	28	14	8.60e-05
Si29	29	14	1.66e-06
Si30	30	14	1.33e-06
Si31	31	14	0.00e+00
Si32	32	14	7.50e-13
P31	31	15	4.46e-07
P32	32	15	0.00e+00

Isotope	A	Z	YIELD [$M_\odot$]
P33	33	15	0.00e+00
S32	32	16	4.40e-05
S33	33	16	1.33e-07
S34	34	16	7.90e-07
S35	35	16	0.00e+00
S36	36	16	8.69e-09
Cl35	35	17	1.43e-07
Cl36	36	17	1.33e-10
Cl37	37	17	6.06e-08
Ar36	36	18	1.00e-05
Ar37	37	18	0.00e+00
Ar38	38	18	6.61e-07
Ar39	39	18	2.41e-11
Ar40	40	18	5.19e-09
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	1.40e-07
K40	40	19	5.64e-10
K41	41	19	1.42e-08
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	7.54e-06
Ca41	41	20	5.50e-10
Ca42	42	20	2.17e-08
Ca43	43	20	4.84e-09
Ca44	44	20	6.00e-08
Ca45	45	20	0.00e+00
Ca46	46	20	8.60e-10
Ca47	47	20	0.00e+00
Ca48	48	20	5.56e-09
Sc45	45	21	2.48e-09
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	9.71e-09
Ti47	47	22	8.69e-09
Ti48	48	22	8.60e-08
Ti49	49	22	7.58e-09
Ti50	50	22	1.08e-08
V50	50	23	3.62e-11

V51	51	23	1.51e-08
Cr50	50	24	2.88e-08
Cr51	51	24	0.00e+00
Cr52	52	24	5.86e-07
Cr53	53	24	6.79e-08
Cr54	54	24	2.31e-08
Mn55	55	25	5.12e-07
Mn56	56	25	0.00e+00
Fe54	54	26	2.77e-06
Fe55	55	26	0.00e+00
Fe56	56	26	4.55e-05
Fe57	57	26	1.19e-06
Fe58	58	26	4.30e-07
Fe59	59	26	0.00e+00
Fe60	60	26	5.56e-08
Co59	59	27	2.22e-07
Co60	60	27	1.13e-13
Ni58	58	28	1.90e-06
Ni59	59	28	4.88e-10
Ni60	60	28	8.06e-07
Ni61	61	28	5.57e-08
Ni62	62	28	1.55e-07
Ni63	63	28	1.39e-11
Ni64	64	28	6.20e-08
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	4.83e-08
Cu64	64	29	0.00e+00
Cu65	65	29	1.78e-08
Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	4.00e-08
Zn65	65	30	0.00e+00
Zn66	66	30	2.86e-08
Zn67	67	30	4.64e-09
Zn68	68	30	2.25e-08
Zn69	69	30	0.00e+00
Zn70	70	30	6.46e-10
Ga69	69	31	2.40e-09
Ga70	70	31	0.00e+00
Ga71	71	31	1.64e-09

Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	3.06e-09
Ge71	71	32	0.00e+00
Ge72	72	32	3.64e-09
Ge73	73	32	1.05e-09
Ge74	74	32	5.30e-09
Ge75	75	32	0.00e+00
Ge76	76	32	7.91e-10
Ge77	77	32	0.00e+00
As75	75	33	6.66e-10
As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	9.43e-10
Se77	77	34	5.83e-10
Se78	78	34	2.40e-09
Se79	79	34	1.65e-10
Se80	80	34	4.04e-09
Se81	81	34	0.00e+00
Se82	82	34	5.26e-10
Br79	79	35	5.39e-10
Br80	80	35	0.00e+00
Br81	81	35	6.91e-10
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	1.18e-10
Kr81	81	36	2.86e-12
Kr82	82	36	1.08e-09
Kr83	83	36	7.33e-10
Kr84	84	36	4.08e-09
Kr85	85	36	0.00e+00
Kr86	86	36	2.51e-09
Kr87	87	36	0.00e+00
Kr88	88	36	0.00e+00
Rb85	85	37	8.98e-10
Rb86	86	37	0.00e+00
Rb87	87	37	1.01e-09
Rb88	88	37	0.00e+00
Sr86	86	38	4.63e-10
Sr87	87	38	2.87e-10

Sr88	88	38	7.08e-09		Ru02	102	44	2.19e-10
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	5.93e-11
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	1.98e-09		Rh03	103	45	6.68e-11
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	9.40e-11
Y92	92	39	0.00e+00		Pd05	105	46	5.73e-11
Y93	93	39	0.00e+00		Pd06	106	46	1.45e-10
Zr90	90	40	1.87e-09		Pd07	107	46	1.96e-11
Zr91	91	40	5.47e-10		Pd08	108	46	1.68e-10
Zr92	92	40	9.04e-10		Pd09	109	46	0.00e+00
Zr93	93	40	2.62e-10		Pd10	110	46	4.24e-11
Zr94	94	40	1.14e-09		Ag07	107	47	2.77e-11
Zr95	95	40	0.00e+00		Ag09	109	47	6.24e-11
Zr96	96	40	5.62e-10		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	1.54e-12
Nb93	93	41	9.36e-11		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	1.18e-10
Nb95	95	41	0.00e+00		Cd11	111	48	5.90e-11
Nb96	96	41	0.00e+00		Cd12	112	48	1.79e-10
Nb97	97	41	0.00e+00		Cd13	113	48	6.16e-11
Mo92	92	42	3.87e-11		Cd14	114	48	2.47e-10
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	2.48e-11		Cd16	116	48	8.30e-11
Mo95	95	42	1.72e-10		In13	113	49	8.86e-13
Mo96	96	42	2.50e-10		In15	115	49	5.99e-11
Mo97	97	42	1.11e-10		Sn14	114	50	2.81e-12
Mo98	98	42	3.26e-10		Sn15	115	50	1.46e-12
Mo99	99	42	0.00e+00		Sn16	116	50	2.94e-10
Mo00	100	42	5.75e-11		Sn17	117	50	1.17e-10
Tc97	97	43	0.00e+00		Sn18	118	50	5.17e-10
Tc98	98	43	0.00e+00		Sn19	119	50	1.63e-10
Tc99	99	43	2.13e-11		Sn20	120	50	8.51e-10
Ru96	96	44	9.73e-12		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	2.81e-10
Ru98	98	44	3.35e-12		Sn23	123	50	0.00e+00
Ru99	99	44	3.73e-11		Sn24	124	50	7.18e-11
Ru00	100	44	1.35e-10		Sb21	121	51	7.84e-11
Ru01	101	44	5.84e-11		Sb22	122	51	0.00e+00

Sb23	123	51	4.90e-11		Ce40	140	58	2.47e-09
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	4.27e-10
Te22	122	52	9.46e-11		Ce43	143	58	0.00e+00
Te23	123	52	3.19e-11		Ce44	144	58	0.00e+00
Te24	124	52	2.15e-10		Pr41	141	59	3.04e-10
Te25	125	52	1.06e-10		Pr42	142	59	0.00e+00
Te26	126	52	4.36e-10		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	2.56e-10		Nd42	142	60	5.24e-10
Te30	130	52	2.13e-10		Nd43	143	60	1.40e-10
I127	127	53	1.70e-10		Nd44	144	60	4.75e-10
I128	128	53	0.00e+00		Nd45	145	60	9.28e-11
I129	129	53	1.94e-12		Nd46	146	60	4.07e-10
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	9.01e-11
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	1.18e-11
Xe28	128	54	1.12e-10		Pm45	145	61	0.00e+00
Xe29	129	54	2.33e-10		Pm46	146	61	0.00e+00
Xe30	130	54	2.30e-10		Pm47	147	61	0.00e+00
Xe31	131	54	2.10e-10		Pm48	148	61	0.00e+00
Xe32	132	54	5.77e-10		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	3.12e-10		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	1.14e-12
Xe36	136	54	8.86e-11		Sm45	145	62	0.00e+00
Cs33	133	55	1.05e-10		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	5.07e-11
Cs35	135	55	6.66e-11		Sm48	148	62	9.43e-11
Cs36	136	55	0.00e+00		Sm49	149	62	2.52e-11
Cs37	137	55	0.00e+00		Sm50	150	62	8.62e-11
Ba34	134	56	1.24e-10		Sm51	151	62	0.00e+00
Ba35	135	56	7.58e-11		Sm52	152	62	8.38e-11
Ba36	136	56	4.22e-10		Sm53	153	62	0.00e+00
Ba37	137	56	6.58e-10		Sm54	154	62	4.83e-11
Ba38	138	56	6.90e-09		Eu51	151	63	1.90e-11
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	2.24e-11
La39	139	57	8.68e-10		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00

Eu56	156	63	0.00e+00
Eu57	157	63	0.00e+00
Gd52	152	64	1.11e-12
Gd53	153	64	0.00e+00
Gd54	154	64	1.99e-11
Gd55	155	64	2.84e-11
Gd56	156	64	7.41e-11
Gd57	157	64	3.78e-11
Gd58	158	64	1.25e-10
Gd59	159	64	0.00e+00
Gd60	160	64	4.48e-11
Tb59	159	65	3.59e-11
Tb60	160	65	0.00e+00
Tb61	161	65	0.00e+00
Dy60	160	66	3.88e-11
Dy61	161	66	3.29e-11
Dy62	162	66	1.03e-10
Dy63	163	66	4.27e-11
Dy64	164	66	1.47e-10
Dy65	165	66	0.00e+00
Dy66	166	66	0.00e+00
Ho63	163	67	2.67e-13
Ho64	164	67	0.00e+00
Ho65	165	67	5.07e-11
Ho66	166	67	0.00e+00
Er64	164	68	1.69e-11
Er65	165	68	0.00e+00
Er66	166	68	6.82e-11
Er67	167	68	3.55e-11
Er68	168	68	1.12e-10
Er69	169	68	0.00e+00
Er70	170	68	6.27e-11
Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	2.73e-11
Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00
Tm73	173	69	0.00e+00
Yb70	170	70	3.12e-11
Yb71	171	70	5.24e-11

Yb72	172	70	1.21e-10
Yb73	173	70	5.95e-11
Yb74	174	70	2.57e-10
Yb75	175	70	0.00e+00
Yb76	176	70	7.57e-11
Yb77	177	70	0.00e+00
Lu75	175	71	4.00e-11
Lu76	176	71	1.79e-11
Lu77	177	71	0.00e+00
Hf76	176	72	1.60e-11
Hf77	177	72	3.81e-11
Hf78	178	72	1.47e-10
Hf79	179	72	5.24e-11
Hf80	180	72	2.65e-10
Hf81	181	72	0.00e+00
Hf82	182	72	2.86e-11
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00
Ta81	181	73	5.76e-11
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	0.00e+00
W181	181	74	0.00e+00
W182	182	74	9.79e-11
W183	183	74	6.98e-11
W184	184	74	1.74e-10
W185	185	74	0.00e+00
W186	186	74	9.27e-11
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	3.70e-11
Re86	186	75	0.00e+00
Re87	187	75	2.84e-11
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	5.59e-11
Os87	187	76	1.74e-11
Os88	188	76	1.60e-10

Isotope	A	Z	YIELD
Os89	189	76	5.17e-11
Os90	190	76	1.95e-10
Os91	191	76	0.00e+00
Os92	192	76	1.65e-10
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	7.74e-11
Ir92	192	77	0.00e+00
Ir93	193	77	1.22e-10
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	4.43e-11
Pt93	193	78	0.00e+00
Pt94	194	78	2.96e-10
Pt95	195	78	1.66e-10
Pt96	196	78	3.14e-10
Pt97	197	78	0.00e+00
Pt98	198	78	6.25e-11
Au97	197	79	1.10e-10
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	2.04e-10
Hg99	199	80	1.14e-10
Hg00	200	80	3.44e-10
Hg01	201	80	1.50e-10
Hg02	202	80	5.91e-10
Hg03	203	80	0.00e+00
Hg04	204	80	6.10e-11
Tl03	203	81	2.83e-10
Tl04	204	81	0.00e+00
Tl05	205	81	5.38e-10
Pb04	204	82	3.08e-10
Pb05	205	82	1.33e-11
Pb06	206	82	5.47e-09
Pb07	207	82	6.84e-09
Pb08	208	82	2.39e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	4.39e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 2.50; Z = 0.001000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	1.29e+00
He4	4	2	4.86e-01
C12	12	6	1.23e-02
C13	13	6	7.78e-06
C14	14	6	1.29e-09
N14	14	7	2.74e-04
N15	15	7	1.35e-07
O16	16	8	1.02e-03
O17	17	8	1.12e-05
O18	18	8	1.03e-06
F18	18	9	0.00e+00
F19	19	9	1.11e-06
Ne20	20	10	1.40e-04
Ne21	21	10	6.11e-07
Ne22	22	10	5.79e-04
Na22	22	11	0.00e+00
Na23	23	11	1.20e-05
Na24	24	11	0.00e+00
Mg24	24	12	7.38e-05
Mg25	25	12	2.29e-05
Mg26	26	12	3.01e-05
Al26	26	13	3.05e-08
Al27	27	13	1.13e-05
Si28	28	14	9.14e-05
Si29	29	14	4.92e-06
Si30	30	14	3.64e-06
Si31	31	14	0.00e+00
Si32	32	14	4.59e-13
P31	31	15	1.04e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	4.71e-05
S33	33	16	4.03e-07
S34	34	16	2.37e-06

S35	35	16	0.00e+00
S36	36	16	1.86e-08
Cl35	35	17	4.80e-07
Cl36	36	17	3.40e-10
Cl37	37	17	1.83e-07
Ar36	36	18	1.07e-05
Ar37	37	18	0.00e+00
Ar38	38	18	2.13e-06
Ar39	39	18	2.24e-11
Ar40	40	18	1.02e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	4.58e-07
K40	40	19	1.82e-09
K41	41	19	4.06e-08
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	8.06e-06
Ca41	41	20	6.82e-10
Ca42	42	20	6.36e-08
Ca43	43	20	1.39e-08
Ca44	44	20	1.96e-07
Ca45	45	20	0.00e+00
Ca46	46	20	1.65e-09
Ca47	47	20	0.00e+00
Ca48	48	20	1.88e-08
Sc45	45	21	7.05e-09
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	3.21e-08
Ti47	47	22	2.90e-08
Ti48	48	22	2.90e-07
Ti49	49	22	2.58e-08
Ti50	50	22	3.29e-08
V50	50	23	1.22e-10
V51	51	23	5.09e-08
Cr50	50	24	9.72e-08
Cr51	51	24	0.00e+00
Cr52	52	24	1.98e-06

Cr53	53	24	2.30e-07
Cr54	54	24	7.91e-08
Mn55	55	25	1.74e-06
Mn56	56	25	0.00e+00
Fe54	54	26	9.36e-06
Fe55	55	26	2.74e-13
Fe56	56	26	1.54e-04
Fe57	57	26	4.15e-06
Fe58	58	26	1.60e-06
Fe59	59	26	0.00e+00
Fe60	60	26	1.41e-07
Co59	59	27	7.49e-07
Co60	60	27	4.95e-13
Ni58	58	28	6.42e-06
Ni59	59	28	2.08e-09
Ni60	60	28	2.72e-06
Ni61	61	28	1.84e-07
Ni62	62	28	4.77e-07
Ni63	63	28	3.18e-11
Ni64	64	28	1.91e-07
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	1.57e-07
Cu64	64	29	0.00e+00
Cu65	65	29	5.34e-08
Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	1.35e-07
Zn65	65	30	0.00e+00
Zn66	66	30	9.66e-08
Zn67	67	30	1.57e-08
Zn68	68	30	7.57e-08
Zn69	69	30	0.00e+00
Zn70	70	30	2.17e-09
Ga69	69	31	8.05e-09
Ga70	70	31	0.00e+00
Ga71	71	31	5.53e-09
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	1.02e-08
Ge71	71	32	0.00e+00

Ge72	72	32	1.23e-08		Sr92	92	38	0.00e+00
Ge73	73	32	3.53e-09		Y89	89	39	1.00e-08
Ge74	74	32	1.63e-08		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	2.57e-09		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	2.03e-09		Zr90	90	40	8.87e-09
As76	76	33	0.00e+00		Zr91	91	40	2.92e-09
As77	77	33	0.00e+00		Zr92	92	40	5.26e-09
Se76	76	34	3.37e-09		Zr93	93	40	1.43e-09
Se77	77	34	2.04e-09		Zr94	94	40	6.51e-09
Se78	78	34	6.78e-09		Zr95	95	40	0.00e+00
Se79	79	34	6.59e-10		Zr96	96	40	3.76e-09
Se80	80	34	1.46e-08		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	3.93e-10
Se82	82	34	1.81e-09		Nb94	94	41	0.00e+00
Br79	79	35	1.89e-09		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	2.29e-09		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	1.30e-10
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	8.43e-11
Kr80	80	36	4.08e-10		Mo95	95	42	8.80e-10
Kr81	81	36	8.78e-12		Mo96	96	42	1.24e-09
Kr82	82	36	4.07e-09		Mo97	97	42	5.29e-10
Kr83	83	36	2.62e-09		Mo98	98	42	1.43e-09
Kr84	84	36	1.52e-08		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	2.40e-10
Kr86	86	36	8.85e-09		Tc97	97	43	0.00e+00
Kr87	87	36	0.00e+00		Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00		Tc99	99	43	8.56e-11
Rb85	85	37	3.48e-09		Ru96	96	44	3.28e-11
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	3.88e-09		Ru98	98	44	1.13e-11
Rb88	88	37	0.00e+00		Ru99	99	44	1.55e-10
Sr86	86	38	1.87e-09		Ru00	100	44	5.79e-10
Sr87	87	38	1.16e-09		Ru01	101	44	2.28e-10
Sr88	88	38	3.55e-08		Ru02	102	44	7.98e-10
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	2.40e-10
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00

Ru06	106	44	0.00e+00
Rh03	103	45	2.55e-10
Rh05	105	45	0.00e+00
Pd04	104	46	4.15e-10
Pd05	105	46	2.24e-10
Pd06	106	46	6.44e-10
Pd07	107	46	9.62e-11
Pd08	108	46	7.80e-10
Pd09	109	46	0.00e+00
Pd10	110	46	2.07e-10
Ag07	107	47	9.45e-11
Ag09	109	47	2.50e-10
Ag11	111	47	0.00e+00
Cd08	108	48	5.26e-12
Cd09	109	48	0.00e+00
Cd10	110	48	5.65e-10
Cd11	111	48	2.68e-10
Cd12	112	48	8.79e-10
Cd13	113	48	2.88e-10
Cd14	114	48	1.25e-09
Cd15	115	48	0.00e+00
Cd16	116	48	4.86e-10
In13	113	49	2.98e-12
In15	115	49	2.90e-10
Sn14	114	50	9.45e-12
Sn15	115	50	4.91e-12
Sn16	116	50	1.51e-09
Sn17	117	50	5.95e-10
Sn18	118	50	2.78e-09
Sn19	119	50	8.47e-10
Sn20	120	50	4.74e-09
Sn21	121	50	0.00e+00
Sn22	122	50	1.69e-09
Sn23	123	50	0.00e+00
Sn24	124	50	3.38e-10
Sb21	121	51	4.13e-10
Sb22	122	51	0.00e+00
Sb23	123	51	2.65e-10
Sb24	124	51	0.00e+00
Sb25	125	51	0.00e+00
Te22	122	52	5.22e-10

Te23	123	52	1.73e-10
Te24	124	52	1.21e-09
Te25	125	52	5.17e-10
Te26	126	52	2.26e-09
Te27	127	52	0.00e+00
Te28	128	52	1.06e-09
Te30	130	52	7.21e-10
I127	127	53	6.80e-10
I128	128	53	0.00e+00
I129	129	53	1.16e-11
I130	130	53	0.00e+00
I131	131	53	0.00e+00
I132	132	53	0.00e+00
I133	133	53	0.00e+00
Xe28	128	54	6.10e-10
Xe29	129	54	8.86e-10
Xe30	130	54	1.26e-09
Xe31	131	54	8.49e-10
Xe32	132	54	3.00e-09
Xe33	133	54	0.00e+00
Xe34	134	54	1.82e-09
Xe35	135	54	0.00e+00
Xe36	136	54	3.44e-10
Cs33	133	55	5.11e-10
Cs34	134	55	0.00e+00
Cs35	135	55	4.43e-10
Cs36	136	55	0.00e+00
Cs37	137	55	0.00e+00
Ba34	134	56	7.08e-10
Ba35	135	56	3.51e-10
Ba36	136	56	2.43e-09
Ba37	137	56	3.65e-09
Ba38	138	56	4.03e-08
Ba39	139	56	0.00e+00
Ba40	140	56	0.00e+00
La39	139	57	5.13e-09
La40	140	57	0.00e+00
Ce40	140	58	1.46e-08
Ce41	141	58	0.00e+00
Ce42	142	58	2.71e-09
Ce43	143	58	0.00e+00

Ce44	144	58	0.00e+00		Gd54	154	64	1.23e-10
Pr41	141	59	1.86e-09		Gd55	155	64	1.48e-10
Pr42	142	59	0.00e+00		Gd56	156	64	4.15e-10
Pr43	143	59	0.00e+00		Gd57	157	64	2.03e-10
Pr45	145	59	0.00e+00		Gd58	158	64	7.30e-10
Nd42	142	60	2.97e-09		Gd59	159	64	0.00e+00
Nd43	143	60	8.17e-10		Gd60	160	64	2.59e-10
Nd44	144	60	2.77e-09		Tb59	159	65	1.88e-10
Nd45	145	60	5.27e-10		Tb60	160	65	0.00e+00
Nd46	146	60	2.32e-09		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	2.22e-10
Nd48	148	60	5.44e-10		Dy61	161	66	1.64e-10
Nd49	149	60	0.00e+00		Dy62	162	66	5.64e-10
Nd50	150	60	6.34e-11		Dy63	163	66	2.11e-10
Pm45	145	61	0.00e+00		Dy64	164	66	8.30e-10
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	1.10e-12
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	2.59e-10
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	3.86e-12		Er64	164	68	9.81e-11
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	3.52e-10
Sm47	147	62	2.83e-10		Er67	167	68	1.77e-10
Sm48	148	62	5.19e-10		Er68	168	68	6.12e-10
Sm49	149	62	1.34e-10		Er69	169	68	0.00e+00
Sm50	150	62	4.95e-10		Er70	170	68	3.70e-10
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	4.67e-10		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	1.78e-10
Sm54	154	62	2.87e-10		Tm70	170	69	0.00e+00
Eu51	151	63	9.38e-11		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00
Eu53	153	63	1.07e-10		Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00		Yb70	170	70	1.76e-10
Eu55	155	63	0.00e+00		Yb71	171	70	2.87e-10
Eu56	156	63	0.00e+00		Yb72	172	70	6.69e-10
Eu57	157	63	0.00e+00		Yb73	173	70	3.23e-10
Gd52	152	64	5.90e-12		Yb74	174	70	1.44e-09
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00

Yb76	176	70	4.63e-10		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	2.18e-10		Ir91	191	77	3.49e-10
Lu76	176	71	3.49e-11		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	5.14e-10
Hf76	176	72	2.44e-10		Ir94	194	77	0.00e+00
Hf77	177	72	1.99e-10		Ir95	195	77	0.00e+00
Hf78	178	72	8.28e-10		Pt92	192	78	2.46e-10
Hf79	179	72	2.87e-10		Pt93	193	78	0.00e+00
Hf80	180	72	1.47e-09		Pt94	194	78	1.53e-09
Hf81	181	72	0.00e+00		Pt95	195	78	7.44e-10
Hf82	182	72	2.93e-10		Pt96	196	78	1.73e-09
Hf83	183	72	0.00e+00		Pt97	197	78	0.00e+00
Hf84	184	72	0.00e+00		Pt98	198	78	3.96e-10
Ta79	179	73	0.00e+00		Au97	197	79	5.41e-10
Ta80	180	73	0.00e+00		Au98	198	79	0.00e+00
Ta81	181	73	3.19e-10		Au99	199	79	0.00e+00
Ta82	182	73	0.00e+00		Hg98	198	80	1.07e-09
Ta83	183	73	0.00e+00		Hg99	199	80	5.97e-10
Ta84	184	73	0.00e+00		Hg00	200	80	1.86e-09
W180	180	74	0.00e+00		Hg01	201	80	8.12e-10
W181	181	74	0.00e+00		Hg02	202	80	2.95e-09
W182	182	74	4.93e-10		Hg03	203	80	0.00e+00
W183	183	74	3.88e-10		Hg04	204	80	4.13e-10
W184	184	74	9.76e-10		Tl03	203	81	1.59e-09
W185	185	74	0.00e+00		Tl04	204	81	0.00e+00
W186	186	74	7.21e-10		Tl05	205	81	3.32e-09
W187	187	74	0.00e+00		Pb04	204	82	1.67e-09
W188	188	74	0.00e+00		Pb05	205	82	1.19e-10
Re85	185	75	2.01e-10		Pb06	206	82	2.05e-08
Re86	186	75	0.00e+00		Pb07	207	82	3.40e-08
Re87	187	75	1.61e-10		Pb08	208	82	5.84e-07
Re88	188	75	0.00e+00		Pb09	209	82	0.00e+00
Re89	189	75	0.00e+00		Pb10	210	82	0.00e+00
Os86	186	76	3.00e-10		Bi09	209	83	1.50e-08
Os87	187	76	8.96e-11		Bi10	210	83	0.00e+00
Os88	188	76	6.77e-10		Po10	210	84	0.00e+00
Os89	189	76	2.45e-10					
Os90	190	76	9.95e-10					
Os91	191	76	0.00e+00					
Os92	192	76	4.55e-10					

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Model Parameters: ($M_\odot$ = 2.50; Z = 0.002000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	1.28e+00
He4	4	2	5.12e-01
C12	12	6	1.30e-02
C13	13	6	1.61e-05
C14	14	6	5.11e-09
N14	14	7	5.62e-04
N15	15	7	3.16e-07
O16	16	8	1.78e-03
O17	17	8	1.69e-05
O18	18	8	2.03e-06
F18	18	9	0.00e+00
F19	19	9	9.65e-07
Ne20	20	10	2.81e-04
Ne21	21	10	1.36e-06
Ne22	22	10	7.20e-04
Na22	22	11	0.00e+00
Na23	23	11	1.86e-05
Na24	24	11	0.00e+00
Mg24	24	12	1.48e-04
Mg25	25	12	3.03e-05
Mg26	26	12	3.09e-05
Al26	26	13	5.70e-08
Al27	27	13	1.88e-05
Si28	28	14	1.83e-04
Si29	29	14	9.79e-06
Si30	30	14	7.01e-06
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	1.92e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	9.56e-05
S33	33	16	8.21e-07
S34	34	16	4.74e-06
S35	35	16	0.00e+00
S36	36	16	3.31e-08
Cl35	35	17	9.74e-07
Cl36	36	17	7.11e-10
Cl37	37	17	3.70e-07
Ar36	36	18	2.18e-05
Ar37	37	18	0.00e+00
Ar38	38	18	4.30e-06
Ar39	39	18	1.60e-11
Ar40	40	18	1.55e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	9.23e-07
K40	40	19	4.26e-09
K41	41	19	8.18e-08
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	1.64e-05
Ca41	41	20	1.33e-09
Ca42	42	20	1.26e-07
Ca43	43	20	2.72e-08
Ca44	44	20	3.95e-07
Ca45	45	20	0.00e+00
Ca46	46	20	2.00e-09
Ca47	47	20	0.00e+00
Ca48	48	20	3.82e-08
Sc45	45	21	1.34e-08
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	6.50e-08
Ti47	47	22	5.87e-08
Ti48	48	22	5.88e-07
Ti49	49	22	5.35e-08
Ti50	50	22	6.79e-08
V50	50	23	2.48e-10
V51	51	23	1.03e-07
Cr50	50	24	1.97e-07
Cr51	51	24	0.00e+00
Cr52	52	24	4.03e-06
Cr53	53	24	4.67e-07
Cr54	54	24	1.54e-07
Mn55	55	25	3.56e-06
Mn56	56	25	0.00e+00

Fe54	54	26	1.90e-05		Ge76	76	32	4.98e-09
Fe55	55	26	4.27e-13		Ge77	77	32	0.00e+00
Fe56	56	26	3.13e-04		As75	75	33	4.15e-09
Fe57	57	26	8.55e-06		As76	76	33	0.00e+00
Fe58	58	26	2.75e-06		As77	77	33	0.00e+00
Fe59	59	26	0.00e+00		Se76	76	34	5.62e-09
Fe60	60	26	1.15e-07		Se77	77	34	3.64e-09
Co59	59	27	1.36e-06		Se78	78	34	1.47e-08
Co60	60	27	2.32e-13		Se79	79	34	6.60e-10
Ni58	58	28	1.30e-05		Se80	80	34	2.58e-08
Ni59	59	28	7.67e-09		Se81	81	34	0.00e+00
Ni60	60	28	5.46e-06		Se82	82	34	3.33e-09
Ni61	61	28	3.37e-07		Br79	79	35	3.77e-09
Ni62	62	28	9.34e-07		Br80	80	35	0.00e+00
Ni63	63	28	1.14e-11		Br81	81	35	4.45e-09
Ni64	64	28	2.78e-07		Br82	82	35	0.00e+00
Ni65	65	28	0.00e+00		Br83	83	35	0.00e+00
Ni66	66	28	0.00e+00		Br84	84	35	0.00e+00
Cu63	63	29	2.40e-07		Kr80	80	36	8.22e-10
Cu64	64	29	0.00e+00		Kr81	81	36	1.41e-11
Cu65	65	29	9.58e-08		Kr82	82	36	7.11e-09
Cu66	66	29	0.00e+00		Kr83	83	36	4.94e-09
Cu67	67	29	0.00e+00		Kr84	84	36	2.78e-08
Zn64	64	30	2.76e-07		Kr85	85	36	0.00e+00
Zn65	65	30	0.00e+00		Kr86	86	36	1.29e-08
Zn66	66	30	1.80e-07		Kr87	87	36	0.00e+00
Zn67	67	30	2.83e-08		Kr88	88	36	0.00e+00
Zn68	68	30	1.34e-07		Rb85	85	37	5.63e-09
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	3.97e-09		Rb87	87	37	4.85e-09
Ga69	69	31	1.37e-08		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	3.79e-09
Ga71	71	31	9.59e-09		Sr87	87	38	2.60e-09
Ga72	72	31	0.00e+00		Sr88	88	38	7.33e-08
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	1.72e-08		Sr90	90	38	0.00e+00
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	2.18e-08		Sr92	92	38	0.00e+00
Ge73	73	32	6.27e-09		Y89	89	39	1.93e-08
Ge74	74	32	3.21e-08		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00

Y92	92	39	0.00e+00		Pd05	105	46	5.06e-10
Y93	93	39	0.00e+00		Pd06	106	46	1.53e-09
Zr90	90	40	1.98e-08		Pd07	107	46	2.36e-10
Zr91	91	40	5.79e-09		Pd08	108	46	1.84e-09
Zr92	92	40	9.38e-09		Pd09	109	46	0.00e+00
Zr93	93	40	2.70e-09		Pd10	110	46	4.15e-10
Zr94	94	40	1.22e-08		Ag07	107	47	1.95e-10
Zr95	95	40	0.00e+00		Ag09	109	47	6.32e-10
Zr96	96	40	3.77e-09		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	1.12e-11
Nb93	93	41	9.16e-10		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	1.35e-09
Nb95	95	41	0.00e+00		Cd11	111	48	6.07e-10
Nb96	96	41	0.00e+00		Cd12	112	48	2.02e-09
Nb97	97	41	0.00e+00		Cd13	113	48	6.53e-10
Mo92	92	42	2.64e-10		Cd14	114	48	2.90e-09
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	1.82e-10		Cd16	116	48	8.67e-10
Mo95	95	42	1.82e-09		In13	113	49	6.04e-12
Mo96	96	42	2.58e-09		In15	115	49	6.58e-10
Mo97	97	42	1.01e-09		Sn14	114	50	1.92e-11
Mo98	98	42	3.10e-09		Sn15	115	50	9.97e-12
Mo99	99	42	0.00e+00		Sn16	116	50	3.66e-09
Mo00	100	42	4.91e-10		Sn17	117	50	1.36e-09
Tc97	97	43	0.00e+00		Sn18	118	50	6.28e-09
Tc98	98	43	0.00e+00		Sn19	119	50	1.95e-09
Tc99	99	43	1.42e-10		Sn20	120	50	1.05e-08
Ru96	96	44	6.62e-11		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	2.09e-09
Ru98	98	44	2.29e-11		Sn23	123	50	0.00e+00
Ru99	99	44	3.78e-10		Sn24	124	50	3.14e-10
Ru00	100	44	1.37e-09		Sb21	121	51	8.99e-10
Ru01	101	44	5.07e-10		Sb22	122	51	0.00e+00
Ru02	102	44	2.24e-09		Sb23	123	51	4.28e-10
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	5.08e-10		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	1.18e-09
Ru06	106	44	0.00e+00		Te23	123	52	3.95e-10
Rh03	103	45	5.91e-10		Te24	124	52	2.48e-09
Rh05	105	45	0.00e+00		Te25	125	52	1.04e-09
Pd04	104	46	1.04e-09		Te26	126	52	4.87e-09

Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	2.08e-09		Nd42	142	60	8.51e-09
Te30	130	52	1.46e-09		Nd43	143	60	1.80e-09
I127	127	53	1.42e-09		Nd44	144	60	5.81e-09
I128	128	53	0.00e+00		Nd45	145	60	1.11e-09
I129	129	53	1.88e-11		Nd46	146	60	5.21e-09
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	1.13e-09
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	1.22e-10
Xe28	128	54	1.37e-09		Pm45	145	61	0.00e+00
Xe29	129	54	1.86e-09		Pm46	146	61	0.00e+00
Xe30	130	54	2.95e-09		Pm47	147	61	0.00e+00
Xe31	131	54	1.84e-09		Pm48	148	61	0.00e+00
Xe32	132	54	7.16e-09		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	2.52e-09		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	7.80e-12
Xe36	136	54	4.63e-10		Sm45	145	62	0.00e+00
Cs33	133	55	1.19e-09		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	6.32e-10
Cs35	135	55	8.43e-10		Sm48	148	62	1.25e-09
Cs36	136	55	0.00e+00		Sm49	149	62	2.98e-10
Cs37	137	55	0.00e+00		Sm50	150	62	1.13e-09
Ba34	134	56	1.80e-09		Sm51	151	62	0.00e+00
Ba35	135	56	8.46e-10		Sm52	152	62	1.04e-09
Ba36	136	56	5.99e-09		Sm53	153	62	0.00e+00
Ba37	137	56	6.88e-09		Sm54	154	62	5.71e-10
Ba38	138	56	9.48e-08		Eu51	151	63	2.08e-10
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	2.46e-10
La39	139	57	1.17e-08		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	3.79e-08		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	3.94e-09		Gd52	152	64	1.49e-11
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	2.60e-10
Pr41	141	59	4.44e-09		Gd55	155	64	3.19e-10
Pr42	142	59	0.00e+00		Gd56	156	64	9.04e-10
Pr43	143	59	0.00e+00		Gd57	157	64	4.40e-10

Gd58	158	64	1.53e-09
Gd59	159	64	0.00e+00
Gd60	160	64	4.86e-10
Tb59	159	65	4.03e-10
Tb60	160	65	0.00e+00
Tb61	161	65	0.00e+00
Dy60	160	66	4.88e-10
Dy61	161	66	3.42e-10
Dy62	162	66	1.20e-09
Dy63	163	66	4.48e-10
Dy64	164	66	1.85e-09
Dy65	165	66	0.00e+00
Dy66	166	66	0.00e+00
Ho63	163	67	1.47e-12
Ho64	164	67	0.00e+00
Ho65	165	67	5.52e-10
Ho66	166	67	0.00e+00
Er64	164	68	2.02e-10
Er65	165	68	0.00e+00
Er66	166	68	7.63e-10
Er67	167	68	3.78e-10
Er68	168	68	1.35e-09
Er69	169	68	0.00e+00
Er70	170	68	7.54e-10
Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	3.00e-10
Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00
Tm73	173	69	0.00e+00
Yb70	170	70	4.08e-10
Yb71	171	70	6.50e-10
Yb72	172	70	1.54e-09
Yb73	173	70	7.31e-10
Yb74	174	70	3.28e-09
Yb75	175	70	0.00e+00
Yb76	176	70	9.17e-10
Yb77	177	70	0.00e+00
Lu75	175	71	4.84e-10
Lu76	176	71	7.90e-11

Lu77	177	71	0.00e+00
Hf76	176	72	5.83e-10
Hf77	177	72	4.39e-10
Hf78	178	72	1.81e-09
Hf79	179	72	6.36e-10
Hf80	180	72	3.31e-09
Hf81	181	72	0.00e+00
Hf82	182	72	3.95e-10
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	1.67e-13
Ta81	181	73	7.16e-10
Ta82	182	73	0.00e+00
Ta93	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	1.90e-13
W181	181	74	0.00e+00
W182	182	74	1.27e-09
W183	183	74	9.16e-10
W184	184	74	2.33e-09
W185	185	74	0.00e+00
W186	186	74	1.22e-09
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	4.71e-10
Re86	186	75	0.00e+00
Re87	187	75	3.48e-10
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	7.75e-10
Os87	187	76	2.20e-10
Os88	188	76	2.06e-09
Os89	189	76	5.62e-10
Os90	190	76	2.38e-09
Os91	191	76	0.00e+00
Os92	192	76	1.78e-09
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	7.29e-10
Ir92	192	77	0.00e+00

Isotope	A	Z	YIELD [$M_\odot$]
Ir93	193	77	1.09e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	5.86e-10
Pt93	193	78	0.00e+00
Pt94	194	78	3.18e-09
Pt95	195	78	1.55e-09
Pt96	196	78	3.49e-09
Pt97	197	78	0.00e+00
Pt98	198	78	6.25e-10
Au97	197	79	1.15e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	2.55e-09
Hg99	199	80	1.38e-09
Hg00	200	80	4.59e-09
Hg01	201	80	2.03e-09
Hg02	202	80	8.63e-09
Hg03	203	80	0.00e+00
Hg04	204	80	6.09e-10
Tl03	203	81	4.15e-09
Tl04	204	81	0.00e+00
Tl05	205	81	8.89e-09
Pb04	204	82	4.55e-09
Pb05	205	82	3.12e-10
Pb06	206	82	5.98e-08
Pb07	207	82	8.32e-08
Pb08	208	82	9.51e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	1.12e-08
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M_α = 2.50; Z = 0.003000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]

H	1	1	1.29e+00
He4	4	2	5.32e-01
C12	12	6	1.30e-02
C13	13	6	2.40e-05
C14	14	6	7.38e-10
N14	14	7	8.47e-04
N15	15	7	4.59e-07
O16	16	8	2.55e-03
O17	17	8	1.98e-05
O18	18	8	3.33e-06
F18	18	9	0.00e+00
F19	19	9	1.30e-06
Ne20	20	10	4.26e-04
Ne21	21	10	1.42e-06
Ne22	22	10	7.74e-04
Na22	22	11	0.00e+00
Na23	23	11	2.56e-05
Na24	24	11	0.00e+00
Mg24	24	12	2.25e-04
Mg25	25	12	3.59e-05
Mg26	26	12	4.13e-05
Al26	26	13	7.99e-08
Al27	27	13	2.60e-05
Si28	28	14	2.78e-04
Si29	29	14	1.47e-05
Si30	30	14	1.04e-05
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	2.82e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	1.46e-04
S33	33	16	1.25e-06
S34	34	16	7.07e-06
S35	35	16	0.00e+00
S36	36	16	4.20e-08
Cl35	35	17	1.48e-06
Cl36	36	17	9.41e-10
Cl37	37	17	5.68e-07
Ar36	36	18	3.32e-05
Ar37	37	18	0.00e+00

Ar38	38	18	6.50e-06
Ar39	39	18	1.11e-11
Ar40	40	18	2.11e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	1.40e-06
K40	40	19	6.40e-09
K41	41	19	1.24e-07
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	2.49e-05
Ca41	41	20	2.03e-09
Ca42	42	20	1.88e-07
Ca43	43	20	4.01e-08
Ca44	44	20	6.00e-07
Ca45	45	20	0.00e+00
Ca46	46	20	1.83e-09
Ca47	47	20	0.00e+00
Ca48	48	20	5.80e-08
Sc45	45	21	1.92e-08
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	9.99e-08
Ti47	47	22	8.97e-08
Ti48	48	22	9.00e-07
Ti49	49	22	8.07e-08
Ti50	50	22	1.01e-07
V50	50	23	3.78e-10
V51	51	23	1.58e-07
Cr50	50	24	3.01e-07
Cr51	51	24	0.00e+00
Cr52	52	24	6.14e-06
Cr53	53	24	7.11e-07
Cr54	54	24	2.16e-07
Mn55	55	25	5.46e-06
Mn56	56	25	0.00e+00
Fe54	54	26	2.90e-05
Fe55	55	26	1.60e-12
Fe56	56	26	4.77e-04

Fe57	57	26	1.27e-05
Fe58	58	26	3.02e-06
Fe59	59	26	0.00e+00
Fe60	60	26	2.57e-08
Co59	59	27	1.72e-06
Co60	60	27	0.00e+00
Ni58	58	28	1.99e-05
Ni59	59	28	1.55e-08
Ni60	60	28	8.20e-06
Ni61	61	28	4.50e-07
Ni62	62	28	1.27e-06
Ni63	63	28	8.93e-12
Ni64	64	28	3.70e-07
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	2.99e-07
Cu64	64	29	0.00e+00
Cu65	65	29	1.34e-07
Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	4.23e-07
Zn65	65	30	0.00e+00
Zn66	66	30	2.71e-07
Zn67	67	30	4.25e-08
Zn68	68	30	2.01e-07
Zn69	69	30	0.00e+00
Zn70	70	30	5.86e-09
Ga69	69	31	2.06e-08
Ga70	70	31	0.00e+00
Ga71	71	31	1.51e-08
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	2.66e-08
Ge71	71	32	0.00e+00
Ge72	72	32	3.45e-08
Ge73	73	32	9.89e-09
Ge74	74	32	4.64e-08
Ge75	75	32	0.00e+00
Ge76	76	32	7.30e-09
Ge77	77	32	0.00e+00
As75	75	33	5.92e-09

As76	76	33	0.00e+00		Zr91	91	40	1.23e-08
As77	77	33	0.00e+00		Zr92	92	40	1.97e-08
Se76	76	34	9.29e-09		Zr93	93	40	4.95e-09
Se77	77	34	5.83e-09		Zr94	94	40	2.59e-08
Se78	78	34	1.95e-08		Zr95	95	40	0.00e+00
Se79	79	34	1.33e-09		Zr96	96	40	3.94e-09
Se80	80	34	4.17e-08		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	1.69e-09
Se82	82	34	4.92e-09		Nb94	94	41	0.00e+00
Br79	79	35	5.89e-09		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	6.73e-09		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	4.03e-10
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	3.15e-10
Kr80	80	36	1.40e-09		Mo95	95	42	3.31e-09
Kr81	81	36	4.20e-11		Mo96	96	42	5.08e-09
Kr82	82	36	1.31e-08		Mo97	97	42	1.84e-09
Kr83	83	36	8.32e-09		Mo98	98	42	6.42e-09
Kr84	84	36	4.66e-08		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	7.65e-10
Kr86	86	36	1.82e-08		Tc97	97	43	0.00e+00
Kr87	87	36	0.00e+00		Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00		Tc99	99	43	2.71e-10
Rb85	85	37	8.74e-09		Ru96	96	44	1.01e-10
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	6.01e-09		Ru98	98	44	3.50e-11
Rb88	88	37	0.00e+00		Ru99	99	44	7.68e-10
Sr86	86	38	8.18e-09		Ru00	100	44	3.08e-09
Sr87	87	38	5.94e-09		Ru01	101	44	9.89e-10
Sr88	88	38	1.58e-07		Ru02	102	44	4.05e-09
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	8.53e-10
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	3.86e-08		Rh03	103	45	1.13e-09
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	2.35e-09
Y92	92	39	0.00e+00		Pd05	105	46	9.79e-10
Y93	93	39	0.00e+00		Pd06	106	46	3.28e-09
Zr90	90	40	4.07e-08		Pd07	107	46	5.34e-10

Pd08	108	46	4.04e-09
Pd09	109	46	0.00e+00
Pd10	110	46	7.25e-10
Ag07	107	47	3.06e-10
Ag09	109	47	1.19e-09
Ag11	111	47	0.00e+00
Cd08	108	48	1.89e-11
Cd09	109	48	0.00e+00
Cd10	110	48	3.13e-09
Cd11	111	48	1.30e-09
Cd12	112	48	4.56e-09
Cd13	113	48	1.43e-09
Cd14	114	48	6.68e-09
Cd15	115	48	0.00e+00
Cd16	116	48	1.26e-09
In13	113	49	9.17e-12
In15	115	49	1.46e-09
Sn14	114	50	2.92e-11
Sn15	115	50	1.52e-11
Sn16	116	50	8.75e-09
Sn17	117	50	2.97e-09
Sn18	118	50	1.38e-08
Sn19	119	50	4.17e-09
Sn20	120	50	2.30e-08
Sn21	121	50	0.00e+00
Sn22	122	50	2.07e-09
Sn23	123	50	0.00e+00
Sn24	124	50	3.18e-10
Sb21	121	51	1.91e-09
Sb22	122	51	0.00e+00
Sb23	123	51	6.71e-10
Sb24	124	51	0.00e+00
Sb25	125	51	0.00e+00
Te22	122	52	2.58e-09
Te23	123	52	8.66e-10
Te24	124	52	5.31e-09
Te25	125	52	2.12e-09
Te26	126	52	1.11e-08
Te27	127	52	0.00e+00
Te28	128	52	3.43e-09
Te30	130	52	2.24e-09

I127	127	53	2.68e-09
I128	128	53	0.00e+00
I129	129	53	3.44e-11
I130	130	53	0.00e+00
I131	131	53	0.00e+00
I132	132	53	0.00e+00
I133	133	53	0.00e+00
Xe28	128	54	3.31e-09
Xe29	129	54	3.31e-09
Xe30	130	54	7.21e-09
Xe31	131	54	3.59e-09
Xe32	132	54	1.65e-08
Xe33	133	54	0.00e+00
Xe34	134	54	2.71e-09
Xe35	135	54	0.00e+00
Xe36	136	54	6.29e-10
Cs33	133	55	2.61e-09
Cs34	134	55	0.00e+00
Cs35	135	55	1.62e-09
Cs36	136	55	0.00e+00
Cs37	137	55	0.00e+00
Ba34	134	56	4.43e-09
Ba35	135	56	1.89e-09
Ba36	136	56	1.52e-08
Ba37	137	56	1.45e-08
Ba38	138	56	2.21e-07
Ba39	139	56	0.00e+00
Ba40	140	56	0.00e+00
La39	139	57	2.83e-08
La40	140	57	0.00e+00
Ce40	140	58	9.51e-08
Ce41	141	58	0.00e+00
Ce42	142	58	4.12e-09
Ce43	143	58	0.00e+00
Ce44	144	58	0.00e+00
Pr41	141	59	1.00e-08
Pr42	142	59	0.00e+00
Pr43	143	59	0.00e+00
Pr45	145	59	0.00e+00
Nd42	142	60	2.31e-08
Nd43	143	60	4.00e-09

Nd44	144	60	1.28e-08		Tb59	159	65	8.01e-10
Nd45	145	60	2.44e-09		Tb60	160	65	0.00e+00
Nd46	146	60	1.18e-08		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	1.01e-09
Nd48	148	60	2.15e-09		Dy61	161	66	6.51e-10
Nd49	149	60	0.00e+00		Dy62	162	66	2.41e-09
Nd50	150	60	1.61e-10		Dy63	163	66	8.75e-10
Pm45	145	61	0.00e+00		Dy64	164	66	4.00e-09
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	1.87e-12
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	1.12e-09
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	1.19e-11		Er64	164	68	4.02e-10
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	1.59e-09
Sm47	147	62	1.43e-09		Er67	167	68	7.72e-10
Sm48	148	62	2.97e-09		Er68	168	68	3.01e-09
Sm49	149	62	6.32e-10		Er69	169	68	0.00e+00
Sm50	150	62	2.51e-09		Er70	170	68	1.59e-09
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	2.22e-09		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	8.45e-10
Sm54	154	62	1.05e-09		Tm70	170	69	0.00e+00
Eu51	151	63	4.21e-10		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00
Eu53	153	63	4.72e-10		Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00		Yb70	170	70	9.29e-10
Eu55	155	63	0.00e+00		Yb71	171	70	1.44e-09
Eu56	156	63	0.00e+00		Yb72	172	70	3.44e-09
Eu57	157	63	0.00e+00		Yb73	173	70	1.62e-09
Gd52	152	64	2.95e-11		Yb74	174	70	7.51e-09
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00
Gd54	154	64	6.02e-10		Yb76	176	70	1.66e-09
Gd55	155	64	6.28e-10		Yb77	177	70	0.00e+00
Gd56	156	64	1.83e-09		Lu75	175	71	1.10e-09
Gd57	157	64	8.77e-10		Lu76	176	71	1.86e-10
Gd58	158	64	3.25e-09		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	1.31e-09
Gd60	160	64	8.26e-10		Hf77	177	72	9.52e-10

Isotope	A	Z	Yield
Hf78	178	72	4.08e-09
Hf79	179	72	1.40e-09
Hf80	180	72	7.54e-09
Hf81	181	72	0.00e+00
Hf82	182	72	9.89e-10
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	3.13e-13
Ta81	181	73	1.64e-09
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	2.89e-13
W181	181	74	0.00e+00
W182	182	74	2.78e-09
W183	183	74	2.07e-09
W184	184	74	5.59e-09
W185	185	74	0.00e+00
W186	186	74	3.76e-09
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	1.13e-09
Re86	186	75	0.00e+00
Re87	187	75	8.01e-10
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	1.83e-09
Os87	187	76	5.16e-10
Os88	188	76	3.35e-09
Os89	189	76	1.09e-09
Os90	190	76	4.61e-09
Os91	191	76	0.00e+00
Os92	192	76	1.79e-09
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	1.40e-09
Ir92	192	77	0.00e+00
Ir93	193	77	1.99e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00

Isotope	A	Z	Yield
Pt92	192	78	1.23e-09
Pt93	193	78	0.00e+00
Pt94	194	78	6.16e-09
Pt95	195	78	2.93e-09
Pt96	196	78	8.51e-09
Pt97	197	78	0.00e+00
Pt98	198	78	1.09e-09
Au97	197	79	2.60e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	6.44e-09
Hg99	199	80	3.33e-09
Hg00	200	80	1.14e-08
Hg01	201	80	4.97e-09
Hg02	202	80	1.94e-08
Hg03	203	80	0.00e+00
Hg04	204	80	6.74e-10
Tl03	203	81	1.00e-08
Tl04	204	81	0.00e+00
Tl05	205	81	2.34e-08
Pb04	204	82	1.26e-08
Pb05	205	82	1.10e-09
Pb06	206	82	1.11e-07
Pb07	207	82	1.73e-07
Pb08	208	82	5.22e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	6.04e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 2.50; Z = 0.006000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	1.28e+00
He4	4	2	5.51e-01
C12	12	6	1.70e-02

C13	13	6	4.93e-05
C14	14	6	4.15e-10
N14	14	7	1.64e-03
N15	15	7	9.80e-07
O16	16	8	4.94e-03
O17	17	8	2.84e-05
O18	18	8	6.95e-06
F18	18	9	0.00e+00
F19	19	9	2.09e-06
Ne20	20	10	8.65e-04
Ne21	21	10	2.69e-06
Ne22	22	10	1.47e-03
Na22	22	11	0.00e+00
Na23	23	11	5.21e-05
Na24	24	11	0.00e+00
Mg24	24	12	4.58e-04
Mg25	25	12	6.29e-05
Mg26	26	12	7.06e-05
Al26	26	13	1.29e-07
Al27	27	13	5.05e-05
Si28	28	14	5.61e-04
Si29	29	14	2.97e-05
Si30	30	14	2.08e-05
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	5.86e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	2.94e-04
S33	33	16	2.53e-06
S34	34	16	1.43e-05
S35	35	16	0.00e+00
S36	36	16	8.96e-08
Cl35	35	17	3.00e-06
Cl36	36	17	1.53e-09
Cl37	37	17	1.18e-06
Ar36	36	18	6.71e-05
Ar37	37	18	0.00e+00
Ar38	38	18	1.31e-05
Ar39	39	18	3.53e-12
Ar40	40	18	6.02e-08

Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	2.84e-06
K40	40	19	1.54e-08
K41	41	19	2.56e-07
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	5.04e-05
Ca41	41	20	3.12e-09
Ca42	42	20	3.82e-07
Ca43	43	20	8.12e-08
Ca44	44	20	1.23e-06
Ca45	45	20	0.00e+00
Ca46	46	20	6.90e-09
Ca47	47	20	0.00e+00
Ca48	48	20	1.17e-07
Sc45	45	21	4.02e-08
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	2.07e-07
Ti47	47	22	1.83e-07
Ti48	48	22	1.82e-06
Ti49	49	22	1.64e-07
Ti50	50	22	2.14e-07
V50	50	23	7.65e-10
V51	51	23	3.21e-07
Cr50	50	24	6.08e-07
Cr51	51	24	0.00e+00
Cr52	52	24	1.24e-05
Cr53	53	24	1.43e-06
Cr54	54	24	4.31e-07
Mn55	55	25	1.11e-05
Mn56	56	25	0.00e+00
Fe54	54	26	5.87e-05
Fe55	55	26	6.37e-13
Fe56	56	26	9.65e-04
Fe57	57	26	2.54e-05
Fe58	58	26	5.38e-06
Fe59	59	26	0.00e+00

Fe60	60	26	3.22e-07
Co59	59	27	3.54e-06
Co60	60	27	6.54e-13
Ni58	58	28	4.03e-05
Ni59	59	28	2.64e-08
Ni60	60	28	1.68e-05
Ni61	61	28	9.69e-07
Ni62	62	28	2.70e-06
Ni63	63	28	7.69e-13
Ni64	64	28	1.05e-06
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	7.05e-07
Cu64	64	29	0.00e+00
Cu65	65	29	3.67e-07
Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	8.83e-07
Zn65	65	30	0.00e+00
Zn66	66	30	6.01e-07
Zn67	67	30	9.72e-08
Zn68	68	30	4.56e-07
Zn69	69	30	0.00e+00
Zn70	70	30	1.19e-08
Ga69	69	31	5.03e-08
Ga70	70	31	0.00e+00
Ga71	71	31	3.97e-08
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	6.88e-08
Ge71	71	32	0.00e+00
Ge72	72	32	8.43e-08
Ge73	73	32	2.40e-08
Ge74	74	32	1.29e-07
Ge75	75	32	0.00e+00
Ge76	76	32	1.49e-08
Ge77	77	32	0.00e+00
As75	75	33	1.57e-08
As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	2.47e-08

Se77	77	34	1.42e-08
Se78	78	34	6.66e-08
Se79	79	34	2.01e-09
Se80	80	34	1.01e-07
Se81	81	34	0.00e+00
Se82	82	34	1.01e-08
Br79	79	35	1.48e-08
Br80	80	35	0.00e+00
Br81	81	35	1.91e-08
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	4.80e-09
Kr81	81	36	2.37e-10
Kr82	82	36	3.98e-08
Kr83	83	36	2.14e-08
Kr84	84	36	1.20e-07
Kr85	85	36	0.00e+00
Kr86	86	36	5.52e-08
Kr87	87	36	0.00e+00
Kr88	88	36	0.00e+00
Rb85	85	37	2.14e-08
Rb86	86	37	0.00e+00
Rb87	87	37	1.75e-08
Rb88	88	37	0.00e+00
Sr86	86	38	3.19e-08
Sr87	87	38	2.19e-08
Sr88	88	38	5.92e-07
Sr89	89	38	0.00e+00
Sr90	90	38	0.00e+00
Sr91	91	38	0.00e+00
Sr92	92	38	0.00e+00
Y89	89	39	1.35e-07
Y90	90	39	0.00e+00
Y91	91	39	0.00e+00
Y92	92	39	0.00e+00
Y93	93	39	0.00e+00
Zr90	90	40	1.62e-07
Zr91	91	40	4.09e-08
Zr92	92	40	6.52e-08
Zr93	93	40	1.64e-08

Zr94	94	40	9.83e-08		Ag07	107	47	7.54e-10
Zr95	95	40	0.00e+00		Ag09	109	47	5.02e-09
Zr96	96	40	1.17e-08		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	7.46e-11
Nb93	93	41	8.04e-09		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	1.30e-08
Nb95	95	41	0.00e+00		Cd11	111	48	4.80e-09
Nb96	96	41	0.00e+00		Cd12	112	48	1.73e-08
Nb97	97	41	0.00e+00		Cd13	113	48	5.27e-09
Mo92	92	42	8.15e-10		Cd14	114	48	2.52e-08
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	1.20e-09		Cd16	116	48	1.79e-09
Mo95	95	42	1.22e-08		In13	113	49	1.85e-11
Mo96	96	42	2.15e-08		In15	115	49	5.27e-09
Mo97	97	42	7.75e-09		Sn14	114	50	6.00e-11
Mo98	98	42	2.76e-08		Sn15	115	50	3.10e-11
Mo99	99	42	0.00e+00		Sn16	116	50	3.43e-08
Mo00	100	42	1.44e-09		Sn17	117	50	1.08e-08
Tc97	97	43	3.68e-13		Sn18	118	50	4.92e-08
Tc98	98	43	0.00e+00		Sn19	119	50	1.53e-08
Tc99	99	43	7.59e-10		Sn20	120	50	8.08e-08
Ru96	96	44	2.03e-10		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	2.59e-09
Ru98	98	44	7.09e-11		Sn23	123	50	0.00e+00
Ru99	99	44	3.37e-09		Sn24	124	50	6.96e-10
Ru00	100	44	1.35e-08		Sb21	121	51	6.44e-09
Ru01	101	44	3.54e-09		Sb22	122	51	0.00e+00
Ru02	102	44	1.95e-08		Sb23	123	51	1.32e-09
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	1.69e-09		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	9.70e-09
Ru06	106	44	0.00e+00		Te23	123	52	3.39e-09
Rh03	103	45	4.10e-09		Te24	124	52	2.01e-08
Rh05	105	45	0.00e+00		Te25	125	52	7.52e-09
Pd04	104	46	1.01e-08		Te26	126	52	4.10e-08
Pd05	105	46	3.34e-09		Te27	127	52	0.00e+00
Pd06	106	46	1.29e-08		Te28	128	52	8.87e-09
Pd07	107	46	2.19e-09		Te30	130	52	4.52e-09
Pd08	108	46	1.61e-08		I127	127	53	7.84e-09
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	1.31e-09		I129	129	53	8.11e-11

I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	2.09e-09
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	1.73e-10
Xe28	128	54	1.24e-08		Pm45	145	61	0.00e+00
Xe29	129	54	9.18e-09		Pm46	146	61	0.00e+00
Xe30	130	54	2.73e-08		Pm47	147	61	0.00e+00
Xe31	131	54	1.08e-08		Pm48	148	61	0.00e+00
Xe32	132	54	5.77e-08		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	3.64e-09		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	2.41e-11
Xe36	136	54	1.29e-09		Sm45	145	62	0.00e+00
Cs33	133	55	8.50e-09		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	2.64e-09
Cs35	135	55	3.53e-09		Sm48	148	62	6.47e-09
Cs36	136	55	0.00e+00		Sm49	149	62	1.13e-09
Cs37	137	55	0.00e+00		Sm50	150	62	4.54e-09
Ba34	134	56	1.80e-08		Sm51	151	62	0.00e+00
Ba35	135	56	7.50e-09		Sm52	152	62	3.79e-09
Ba36	136	56	5.67e-08		Sm53	153	62	0.00e+00
Ba37	137	56	4.81e-08		Sm54	154	62	1.05e-09
Ba38	138	56	5.85e-07		Eu51	151	63	7.72e-10
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	8.64e-10
La39	139	57	6.88e-08		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	2.12e-07		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	2.82e-09		Gd52	152	64	8.07e-11
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	1.00e-09
Pr41	141	59	1.91e-08		Gd55	155	64	1.01e-09
Pr42	142	59	0.00e+00		Gd56	156	64	3.07e-09
Pr43	143	59	0.00e+00		Gd57	157	64	1.50e-09
Pr45	145	59	0.00e+00		Gd58	158	64	5.68e-09
Nd42	142	60	5.19e-08		Gd59	159	64	0.00e+00
Nd43	143	60	7.76e-09		Gd60	160	64	8.26e-10
Nd44	144	60	2.38e-08		Tb59	159	65	1.48e-09
Nd45	145	60	4.47e-09		Tb60	160	65	0.00e+00
Nd46	146	60	2.24e-08		Tb61	161	65	0.00e+00

Dy60	160	66	1.91e-09	Hf81	181	72	0.00e+00
Dy61	161	66	1.17e-09	Hf82	182	72	5.83e-10
Dy62	162	66	4.45e-09	Hf83	183	72	0.00e+00
Dy63	163	66	1.71e-09	Hf84	184	72	0.00e+00
Dy64	164	66	7.92e-09	Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00	Ta80	180	73	4.15e-13
Dy66	166	66	0.00e+00	Ta81	181	73	2.74e-09
Ho63	163	67	1.18e-12	Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00	Ta83	183	73	0.00e+00
Ho65	165	67	2.06e-09	Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00	W180	180	74	5.79e-13
Er64	164	68	6.39e-10	W181	181	74	0.00e+00
Er65	165	68	0.00e+00	W182	182	74	5.74e-09
Er66	166	68	3.10e-09	W183	183	74	3.72e-09
Er67	167	68	1.53e-09	W184	184	74	9.24e-09
Er68	168	68	6.02e-09	W185	185	74	0.00e+00
Er69	169	68	0.00e+00	W186	186	74	3.11e-09
Er70	170	68	1.71e-09	W187	187	74	0.00e+00
Er71	171	68	0.00e+00	W188	188	74	0.00e+00
Er72	172	68	0.00e+00	Re85	185	75	1.85e-09
Tm69	169	69	1.27e-09	Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00	Re87	187	75	8.92e-10
Tm71	171	69	0.00e+00	Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00	Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00	Os86	186	76	3.39e-09
Yb70	170	70	1.92e-09	Os87	187	76	1.00e-09
Yb71	171	70	2.53e-09	Os88	188	76	7.00e-09
Yb72	172	70	6.17e-09	Os89	189	76	1.85e-09
Yb73	173	70	2.91e-09	Os90	190	76	8.06e-09
Yb74	174	70	1.36e-08	Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00	Os92	192	76	3.75e-09
Yb76	176	70	1.31e-09	Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00	Os94	194	76	0.00e+00
Lu75	175	71	1.99e-09	Ir91	191	77	2.38e-09
Lu76	176	71	3.34e-10	Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00	Ir93	193	77	3.27e-09
Hf76	176	72	2.40e-09	Ir94	194	77	0.00e+00
Hf77	177	72	1.59e-09	Ir95	195	77	0.00e+00
Hf78	178	72	6.85e-09	Pt92	192	78	2.34e-09
Hf79	179	72	2.37e-09	Pt93	193	78	0.00e+00
Hf80	180	72	1.30e-08	Pt94	194	78	9.34e-09

Isotope	A	Z	YIELD [$M_\odot$]
Pt95	195	78	4.86e-09
Pt96	196	78	1.20e-08
Pt97	197	78	0.00e+00
Pt98	198	78	7.51e-10
Au97	197	79	3.92e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.00e-08
Hg99	199	80	4.86e-09
Hg00	200	80	1.60e-08
Hg01	201	80	6.80e-09
Hg02	202	80	2.85e-08
Hg03	203	80	0.00e+00
Hg04	204	80	3.02e-10
Tl03	203	81	1.23e-08
Tl04	204	81	0.00e+00
Tl05	205	81	2.93e-08
Pb04	204	82	1.57e-08
Pb05	205	82	1.28e-09
Pb06	206	82	1.20e-07
Pb07	207	82	1.05e-07
Pb08	208	82	2.25e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	1.74e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M_0 = 2.50; Z = 0.008000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	1.27e+00
He4	4	2	5.54e-01
C12	12	6	1.60e-02
C13	13	6	6.70e-05
C14	14	6	4.28e-10
N14	14	7	2.14e-03

Isotope	A	Z	YIELD [$M_\odot$]
N15	15	7	1.32e-06
O16	16	8	6.44e-03
O17	17	8	3.43e-05
O18	18	8	9.41e-06
F18	18	9	0.00e+00
F19	19	9	2.10e-06
Ne20	20	10	1.15e-03
Ne21	21	10	3.35e-06
Ne22	22	10	1.47e-03
Na22	22	11	0.00e+00
Na23	23	11	6.61e-05
Na24	24	11	0.00e+00
Mg24	24	12	5.98e-04
Mg25	25	12	7.98e-05
Mg26	26	12	9.15e-05
Al26	26	13	2.05e-07
Al27	27	13	6.66e-05
Si28	28	14	7.46e-04
Si29	29	14	3.94e-05
Si30	30	14	2.74e-05
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	7.64e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	3.91e-04
S33	33	16	3.33e-06
S34	34	16	1.89e-05
S35	35	16	0.00e+00
S36	36	16	1.11e-07
Cl35	35	17	3.99e-06
Cl36	36	17	1.70e-09
Cl37	37	17	1.57e-06
Ar36	36	18	8.93e-05
Ar37	37	18	0.00e+00
Ar38	38	18	1.74e-05
Ar39	39	18	4.12e-12
Ar40	40	18	6.41e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	3.77e-06

K40	40	19	1.79e-08		Ni58	58	28	5.38e-05
K41	41	19	3.33e-07		Ni59	59	28	2.92e-08
K42	42	19	0.00e+00		Ni60	60	28	2.21e-05
K43	43	19	0.00e+00		Ni61	61	28	1.20e-06
Ca40	40	20	6.71e-05		Ni62	62	28	3.44e-06
Ca41	41	20	3.68e-09		Ni63	63	28	8.05e-13
Ca42	42	20	5.05e-07		Ni64	64	28	1.34e-06
Ca43	43	20	1.07e-07		Ni65	65	28	0.00e+00
Ca44	44	20	1.63e-06		Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00		Cu63	63	29	8.84e-07
Ca46	46	20	6.33e-09		Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00		Cu65	65	29	4.69e-07
Ca48	48	20	1.56e-07		Cu66	66	29	0.00e+00
Sc45	45	21	5.18e-08		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	1.18e-06
Sc47	47	21	0.00e+00		Zn65	65	30	0.00e+00
Sc48	48	21	0.00e+00		Zn66	66	30	7.85e-07
Sc49	49	21	0.00e+00		Zn67	67	30	1.26e-07
Ti46	46	22	2.75e-07		Zn68	68	30	5.98e-07
Ti47	47	22	2.42e-07		Zn69	69	30	0.00e+00
Ti48	48	22	2.43e-06		Zn70	70	30	1.57e-08
Ti49	49	22	2.13e-07		Ga69	69	31	6.71e-08
Ti50	50	22	2.66e-07		Ga70	70	31	0.00e+00
V50	50	23	1.02e-09		Ga71	71	31	5.50e-08
V51	51	23	4.26e-07		Ga72	72	31	0.00e+00
Cr50	50	24	8.12e-07		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	9.37e-08
Cr52	52	24	1.65e-05		Ge71	71	32	0.00e+00
Cr53	53	24	1.91e-06		Ge72	72	32	1.16e-07
Cr54	54	24	5.55e-07		Ge73	73	32	3.29e-08
Mn55	55	25	1.47e-05		Ge74	74	32	1.81e-07
Mn56	56	25	0.00e+00		Ge75	75	32	0.00e+00
Fe54	54	26	7.82e-05		Ge76	76	32	1.96e-08
Fe55	55	26	1.02e-12		Ge77	77	32	0.00e+00
Fe56	56	26	1.28e-03		As75	75	33	2.19e-08
Fe57	57	26	3.30e-05		As76	76	33	0.00e+00
Fe58	58	26	6.52e-06		As77	77	33	0.00e+00
Fe59	59	26	0.00e+00		Se76	76	34	3.56e-08
Fe60	60	26	2.01e-07		Se77	77	34	2.01e-08
Co59	59	27	4.54e-06		Se78	78	34	9.65e-08
Co60	60	27	4.08e-13		Se79	79	34	2.82e-09

Se80	80	34	1.43e-07		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	1.10e-08
Se82	82	34	1.32e-08		Nb94	94	41	0.00e+00
Br79	79	35	2.04e-08		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	2.76e-08		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	1.09e-09
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	1.77e-09
Kr80	80	36	7.82e-09		Mo95	95	42	1.55e-08
Kr81	81	36	5.10e-10		Mo96	96	42	2.87e-08
Kr82	82	36	5.97e-08		Mo97	97	42	1.04e-08
Kr83	83	36	3.07e-08		Mo98	98	42	3.67e-08
Kr84	84	36	1.70e-07		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	1.44e-09
Kr86	86	36	5.55e-08		Tc97	97	43	5.62e-13
Kr87	87	36	0.00e+00		Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00		Tc99	99	43	9.55e-10
Rb85	85	37	2.91e-08		Ru96	96	44	2.71e-10
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	1.58e-08		Ru98	98	44	9.46e-11
Rb88	88	37	0.00e+00		Ru99	99	44	4.51e-09
Sr86	86	38	5.08e-08		Ru00	100	44	1.78e-08
Sr87	87	38	3.46e-08		Ru01	101	44	4.63e-09
Sr88	88	38	8.51e-07		Ru02	102	44	2.51e-08
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	1.74e-09
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	1.87e-07		Rh03	103	45	5.27e-09
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	1.31e-08
Y92	92	39	0.00e+00		Pd05	105	46	4.29e-09
Y93	93	39	0.00e+00		Pd06	106	46	1.64e-08
Zr90	90	40	2.24e-07		Pd07	107	46	2.77e-09
Zr91	91	40	5.45e-08		Pd08	108	46	2.03e-08
Zr92	92	40	8.76e-08		Pd09	109	46	0.00e+00
Zr93	93	40	2.18e-08		Pd10	110	46	1.24e-09
Zr94	94	40	1.31e-07		Ag07	107	47	9.91e-10
Zr95	95	40	0.00e+00		Ag09	109	47	6.31e-09
Zr96	96	40	1.28e-08		Ag11	111	47	0.00e+00

Cd08	108	48	1.09e-10		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	1.51e-08
Cd10	110	48	1.64e-08		Xe29	129	54	1.16e-08
Cd11	111	48	6.02e-09		Xe30	130	54	3.28e-08
Cd12	112	48	2.15e-08		Xe31	131	54	1.33e-08
Cd13	113	48	6.57e-09		Xe32	132	54	6.76e-08
Cd14	114	48	3.11e-08		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	4.60e-09
Cd16	116	48	1.59e-09		Xe35	135	54	0.00e+00
In13	113	49	2.48e-11		Xe36	136	54	1.70e-09
In15	115	49	6.49e-09		Cs33	133	55	9.86e-09
Sn14	114	50	8.01e-11		Cs34	134	55	0.00e+00
Sn15	115	50	4.14e-11		Cs35	135	55	3.24e-09
Sn16	116	50	4.28e-08		Cs36	136	55	0.00e+00
Sn17	117	50	1.35e-08		Cs37	137	55	0.00e+00
Sn18	118	50	6.05e-08		Ba34	134	56	2.19e-08
Sn19	119	50	1.89e-08		Ba35	135	56	9.26e-09
Sn20	120	50	9.93e-08		Ba36	136	56	6.46e-08
Sn21	121	50	0.00e+00		Ba37	137	56	5.40e-08
Sn22	122	50	3.23e-09		Ba38	138	56	5.46e-07
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00
Sn24	124	50	9.02e-10		Ba40	140	56	0.00e+00
Sb21	121	51	7.90e-09		La39	139	57	6.23e-08
Sb22	122	51	0.00e+00		La40	140	57	0.00e+00
Sb23	123	51	1.42e-09		Ce40	140	58	1.73e-07
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	2.09e-09
Te22	122	52	1.23e-08		Ce43	143	58	0.00e+00
Te23	123	52	4.36e-09		Ce44	144	58	0.00e+00
Te24	124	52	2.53e-08		Pr41	141	59	1.49e-08
Te25	125	52	9.50e-09		Pr42	142	59	0.00e+00
Te26	126	52	5.04e-08		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	1.12e-08		Nd42	142	60	4.09e-08
Te30	130	52	6.02e-09		Nd43	143	60	6.04e-09
I127	127	53	9.83e-09		Nd44	144	60	1.82e-08
I128	128	53	0.00e+00		Nd45	145	60	3.43e-09
I129	129	53	8.66e-11		Nd46	146	60	1.69e-08
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	1.16e-09
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00

Nd50	150	60	2.04e-10
Pm45	145	61	0.00e+00
Pm46	146	61	0.00e+00
Pm47	147	61	0.00e+00
Pm48	148	61	0.00e+00
Pm49	149	61	0.00e+00
Pm50	150	61	0.00e+00
Pm51	151	61	0.00e+00
Sm44	144	62	3.21e-11
Sm45	145	62	0.00e+00
Sm46	146	62	1.12e-13
Sm47	147	62	1.99e-09
Sm48	148	62	5.13e-09
Sm49	149	62	8.92e-10
Sm50	150	62	3.37e-09
Sm51	151	62	0.00e+00
Sm52	152	62	2.83e-09
Sm53	153	62	0.00e+00
Sm54	154	62	6.76e-10
Eu51	151	63	6.53e-10
Eu52	152	63	0.00e+00
Eu53	153	63	7.14e-10
Eu54	154	63	0.00e+00
Eu55	155	63	0.00e+00
Eu56	156	63	0.00e+00
Eu57	157	63	0.00e+00
Gd52	152	64	7.26e-11
Gd53	153	64	0.00e+00
Gd54	154	64	7.74e-10
Gd55	155	64	8.06e-10
Gd56	156	64	2.36e-09
Gd57	157	64	1.21e-09
Gd58	158	64	4.37e-09
Gd59	159	64	0.00e+00
Gd60	160	64	6.00e-10
Tb59	159	65	1.21e-09
Tb60	160	65	0.00e+00
Tb61	161	65	0.00e+00
Dy60	160	66	1.45e-09
Dy61	161	66	1.00e-09
Dy62	162	66	3.47e-09

Dy63	163	66	1.46e-09
Dy64	164	66	6.02e-09
Dy65	165	66	0.00e+00
Dy66	166	66	0.00e+00
Ho63	163	67	9.80e-13
Ho64	164	67	0.00e+00
Ho65	165	67	1.68e-09
Ho66	166	67	0.00e+00
Er64	164	68	4.58e-10
Er65	165	68	0.00e+00
Er66	166	68	2.53e-09
Er67	167	68	1.27e-09
Er68	168	68	4.59e-09
Er69	169	68	0.00e+00
Er70	170	68	9.61e-10
Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	1.01e-09
Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00
Tm73	173	69	0.00e+00
Yb70	170	70	1.45e-09
Yb71	171	70	1.81e-09
Yb72	172	70	4.58e-09
Yb73	173	70	2.20e-09
Yb74	174	70	9.86e-09
Yb75	175	70	0.00e+00
Yb76	176	70	6.70e-10
Yb77	177	70	0.00e+00
Lu75	175	71	1.48e-09
Lu76	176	71	2.35e-10
Lu77	177	71	0.00e+00
Hf76	176	72	1.73e-09
Hf77	177	72	1.17e-09
Hf78	178	72	4.85e-09
Hf79	179	72	1.69e-09
Hf80	180	72	9.06e-09
Hf81	181	72	0.00e+00
Hf82	182	72	2.28e-10
Hf83	183	72	0.00e+00

Isotope	A	Z	Yield
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	2.82e-13
Ta81	181	73	1.89e-09
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	7.73e-13
W181	181	74	0.00e+00
W182	182	74	4.17e-09
W183	183	74	2.58e-09
W184	184	74	6.26e-09
W185	185	74	0.00e+00
W186	186	74	1.75e-09
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	1.27e-09
Re86	186	75	0.00e+00
Re87	187	75	5.67e-10
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	2.44e-09
Os87	187	76	7.81e-10
Os88	188	76	4.95e-09
Os89	189	76	1.53e-09
Os90	190	76	5.79e-09
Os91	191	76	0.00e+00
Os92	192	76	2.72e-09
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	2.21e-09
Ir92	192	77	0.00e+00
Ir93	193	77	3.22e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	1.69e-09
Pt93	193	78	0.00e+00
Pt94	194	78	7.36e-09
Pt95	195	78	4.45e-09
Pt96	196	78	8.82e-09
Pt97	197	78	0.00e+00

Isotope	A	Z	Yield
Pt98	198	78	6.70e-10
Au97	197	79	3.09e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	6.71e-09
Hg99	199	80	3.33e-09
Hg00	200	80	1.04e-08
Hg01	201	80	4.39e-09
Hg02	202	80	1.79e-08
Hg03	203	80	0.00e+00
Hg04	204	80	2.25e-10
Tl03	203	81	7.57e-09
Tl04	204	81	0.00e+00
Tl05	205	81	1.81e-08
Pb04	204	82	9.89e-09
Pb05	205	82	7.58e-10
Pb06	206	82	7.11e-08
Pb07	207	82	6.51e-08
Pb08	208	82	1.55e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	1.52e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 2.50; Z = 0.010000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	1.27e+00
He4	4	2	5.56e-01
C12	12	6	1.63e-02
C13	13	6	8.45e-05
C14	14	6	2.49e-10
N14	14	7	2.61e-03
N15	15	7	1.73e-06
O16	16	8	8.03e-03
O17	17	8	4.00e-05

O18	18	8	1.21e-05
F18	18	9	0.00e+00
F19	19	9	2.26e-06
Ne20	20	10	1.44e-03
Ne21	21	10	4.07e-06
Ne22	22	10	1.61e-03
Na22	22	11	0.00e+00
Na23	23	11	8.26e-05
Na24	24	11	0.00e+00
Mg24	24	12	7.45e-04
Mg25	25	12	9.76e-05
Mg26	26	12	1.14e-04
Al26	26	13	2.78e-07
Al27	27	13	8.33e-05
Si28	28	14	9.38e-04
Si29	29	14	4.95e-05
Si30	30	14	3.43e-05
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	9.43e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	4.92e-04
S33	33	16	4.16e-06
S34	34	16	2.36e-05
S35	35	16	0.00e+00
S36	36	16	1.32e-07
Cl35	35	17	5.02e-06
Cl36	36	17	1.88e-09
Cl37	37	17	1.98e-06
Ar36	36	18	1.12e-04
Ar37	37	18	0.00e+00
Ar38	38	18	2.19e-05
Ar39	39	18	2.00e-12
Ar40	40	18	7.00e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	4.74e-06
K40	40	19	2.05e-08
K41	41	19	4.16e-07
K42	42	19	0.00e+00

K43	43	19	0.00e+00
Ca40	40	20	8.44e-05
Ca41	41	20	4.32e-09
Ca42	42	20	6.32e-07
Ca43	43	20	1.34e-07
Ca44	44	20	2.05e-06
Ca45	45	20	0.00e+00
Ca46	46	20	6.31e-09
Ca47	47	20	0.00e+00
Ca48	48	20	1.96e-07
Sc45	45	21	6.35e-08
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	3.44e-07
Ti47	47	22	3.05e-07
Ti48	48	22	3.06e-06
Ti49	49	22	2.65e-07
Ti50	50	22	3.16e-07
V50	50	23	1.29e-09
V51	51	23	5.35e-07
Cr50	50	24	1.02e-06
Cr51	51	24	0.00e+00
Cr52	52	24	2.08e-05
Cr53	53	24	2.40e-06
Cr54	54	24	6.89e-07
Mn55	55	25	1.85e-05
Mn56	56	25	0.00e+00
Fe54	54	26	9.85e-05
Fe55	55	26	5.36e-13
Fe56	56	26	1.62e-03
Fe57	57	26	4.11e-05
Fe58	58	26	7.94e-06
Fe59	59	26	0.00e+00
Fe60	60	26	1.14e-07
Co59	59	27	5.60e-06
Co60	60	27	2.31e-13
Ni58	58	28	6.77e-05
Ni59	59	28	3.20e-08
Ni60	60	28	2.77e-05

Ni61	61	28	1.46e-06
Ni62	62	28	4.22e-06
Ni63	63	28	3.28e-13
Ni64	64	28	1.46e-06
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	1.02e-06
Cu64	64	29	0.00e+00
Cu65	65	29	5.32e-07
Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	1.46e-06
Zn65	65	30	0.00e+00
Zn66	66	30	9.57e-07
Zn67	67	30	1.52e-07
Zn68	68	30	7.30e-07
Zn69	69	30	0.00e+00
Zn70	70	30	1.97e-08
Ga69	69	31	8.21e-08
Ga70	70	31	0.00e+00
Ga71	71	31	6.81e-08
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	1.15e-07
Ge71	71	32	0.00e+00
Ge72	72	32	1.44e-07
Ge73	73	32	4.10e-08
Ge74	74	32	2.28e-07
Ge75	75	32	0.00e+00
Ge76	76	32	2.46e-08
Ge77	77	32	0.00e+00
As75	75	33	2.77e-08
As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	4.55e-08
Se77	77	34	2.56e-08
Se78	78	34	1.24e-07
Se79	79	34	3.34e-09
Se80	80	34	1.83e-07
Se81	81	34	0.00e+00
Se82	82	34	1.65e-08

Br79	79	35	2.57e-08
Br80	80	35	0.00e+00
Br81	81	35	3.59e-08
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	1.09e-08
Kr81	81	36	7.99e-10
Kr82	82	36	7.73e-08
Kr83	83	36	3.91e-08
Kr84	84	36	2.18e-07
Kr85	85	36	0.00e+00
Kr86	86	36	6.36e-08
Kr87	87	36	0.00e+00
Kr88	88	36	0.00e+00
Rb85	85	37	3.71e-08
Rb86	86	37	0.00e+00
Rb87	87	37	1.75e-08
Rb88	88	37	0.00e+00
Sr86	86	38	6.83e-08
Sr87	87	38	4.59e-08
Sr88	88	38	1.07e-06
Sr89	89	38	0.00e+00
Sr90	90	38	0.00e+00
Sr91	91	38	0.00e+00
Sr92	92	38	0.00e+00
Y89	89	39	2.28e-07
Y90	90	39	0.00e+00
Y91	91	39	0.00e+00
Y92	92	39	0.00e+00
Y93	93	39	0.00e+00
Zr90	90	40	2.69e-07
Zr91	91	40	6.37e-08
Zr92	92	40	1.02e-07
Zr93	93	40	2.45e-08
Zr94	94	40	1.50e-07
Zr95	95	40	0.00e+00
Zr96	96	40	1.09e-08
Zr97	97	40	0.00e+00
Nb93	93	41	1.34e-08
Nb94	94	41	0.00e+00

Nb95	95	41	0.00e+00	Cd11	111	48	6.75e-09
Nb96	96	41	0.00e+00	Cd12	112	48	2.37e-08
Nb97	97	41	0.00e+00	Cd13	113	48	7.30e-09
Mo92	92	42	1.37e-09	Cd14	114	48	3.41e-08
Mo93	93	42	0.00e+00	Cd15	115	48	0.00e+00
Mo94	94	42	2.30e-09	Cd16	116	48	1.39e-09
Mo95	95	42	1.73e-08	In13	113	49	3.13e-11
Mo96	96	42	3.26e-08	In15	115	49	7.12e-09
Mo97	97	42	1.17e-08	Sn14	114	50	1.01e-10
Mo98	98	42	4.10e-08	Sn15	115	50	5.21e-11
Mo99	99	42	0.00e+00	Sn16	116	50	4.68e-08
Mo00	100	42	1.51e-09	Sn17	117	50	1.48e-08
Tc97	97	43	8.22e-13	Sn18	118	50	6.44e-08
Tc98	98	43	1.28e-13	Sn19	119	50	2.02e-08
Tc99	99	43	1.01e-09	Sn20	120	50	1.03e-07
Ru96	96	44	3.42e-10	Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00	Sn22	122	50	2.37e-09
Ru98	98	44	1.19e-10	Sn23	123	50	0.00e+00
Ru99	99	44	5.15e-09	Sn24	124	50	1.02e-09
Ru00	100	44	2.00e-08	Sb21	121	51	8.26e-09
Ru01	101	44	5.29e-09	Sb22	122	51	0.00e+00
Ru02	102	44	2.80e-08	Sb23	123	51	1.29e-09
Ru03	103	44	0.00e+00	Sb24	124	51	0.00e+00
Ru04	104	44	1.83e-09	Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00	Te22	122	52	1.30e-08
Ru06	106	44	0.00e+00	Te23	123	52	4.66e-09
Rh03	103	45	6.00e-09	Te24	124	52	2.60e-08
Rh05	105	45	0.00e+00	Te25	125	52	9.98e-09
Pd04	104	46	1.48e-08	Te26	126	52	5.12e-08
Pd05	105	46	4.94e-09	Te27	127	52	0.00e+00
Pd06	106	46	1.84e-08	Te28	128	52	1.25e-08
Pd07	107	46	3.07e-09	Te30	130	52	7.58e-09
Pd08	108	46	2.26e-08	I127	127	53	1.07e-08
Pd09	109	46	0.00e+00	I128	128	53	0.00e+00
Pd10	110	46	1.18e-09	I129	129	53	7.15e-11
Ag07	107	47	1.23e-09	I130	130	53	0.00e+00
Ag09	109	47	7.06e-09	I131	131	53	0.00e+00
Ag11	111	47	0.00e+00	I132	132	53	0.00e+00
Cd08	108	48	1.45e-10	I133	133	53	0.00e+00
Cd09	109	48	0.00e+00	Xe28	128	54	1.52e-08
Cd10	110	48	1.83e-08	Xe29	129	54	1.30e-08

Xe30	130	54	3.27e-08		Pm47	147	61	0.00e+00
Xe31	131	54	1.43e-08		Pm48	148	61	0.00e+00
Xe32	132	54	6.73e-08		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	3.94e-09		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	4.05e-11
Xe36	136	54	2.10e-09		Sm45	145	62	0.00e+00
Cs33	133	55	9.85e-09		Sm46	146	62	1.26e-13
Cs34	134	55	0.00e+00		Sm47	147	62	1.39e-09
Cs35	135	55	2.43e-09		Sm48	148	62	3.59e-09
Cs36	136	55	0.00e+00		Sm49	149	62	6.77e-10
Cs37	137	55	0.00e+00		Sm50	150	62	2.26e-09
Ba34	134	56	2.21e-08		Sm51	151	62	0.00e+00
Ba35	135	56	9.55e-09		Sm52	152	62	1.98e-09
Ba36	136	56	6.14e-08		Sm53	153	62	0.00e+00
Ba37	137	56	5.04e-08		Sm54	154	62	5.10e-10
Ba38	138	56	4.40e-07		Eu51	151	63	5.44e-10
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	5.85e-10
La39	139	57	4.89e-08		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	1.26e-07		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	1.31e-09		Gd52	152	64	5.75e-11
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	5.38e-10
Pr41	141	59	1.07e-08		Gd55	155	64	6.41e-10
Pr42	142	59	0.00e+00		Gd56	156	64	1.74e-09
Pr43	143	59	0.00e+00		Gd57	157	64	9.36e-10
Pr45	145	59	0.00e+00		Gd58	158	64	3.13e-09
Nd42	142	60	2.89e-08		Gd59	159	64	0.00e+00
Nd43	143	60	4.29e-09		Gd60	160	64	5.32e-10
Nd44	144	60	1.26e-08		Tb59	159	65	9.58e-10
Nd45	145	60	2.44e-09		Tb60	160	65	0.00e+00
Nd46	146	60	1.16e-08		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	9.94e-10
Nd48	148	60	7.11e-10		Dy61	161	66	8.62e-10
Nd49	149	60	0.00e+00		Dy62	162	66	2.57e-09
Nd50	150	60	2.50e-10		Dy63	163	66	1.23e-09
Pm45	145	61	0.00e+00		Dy64	164	66	4.26e-09
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00

Dy66	166	66	0.00e+00		Ta81	181	73	1.24e-09
Ho63	163	67	5.26e-13		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta83	183	73	0.00e+00
Ho65	165	67	1.33e-09		Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00		W180	180	74	9.73e-13
Er64	164	68	3.00e-10		W181	181	74	0.00e+00
Er65	165	68	0.00e+00		W182	182	74	2.85e-09
Er66	166	68	1.94e-09		W183	183	74	1.70e-09
Er67	167	68	1.01e-09		W184	184	74	4.01e-09
Er68	168	68	3.20e-09		W185	185	74	0.00e+00
Er69	169	68	0.00e+00		W186	186	74	9.96e-10
Er70	170	68	5.92e-10		W187	187	74	0.00e+00
Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	8.37e-10
Tm69	169	69	7.57e-10		Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00		Re87	187	75	3.95e-10
Tm71	171	69	0.00e+00		Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00		Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00		Os86	186	76	1.63e-09
Yb70	170	70	9.85e-10		Os87	187	76	5.75e-10
Yb71	171	70	1.23e-09		Os88	188	76	3.42e-09
Yb72	172	70	3.13e-09		Os89	189	76	1.32e-09
Yb73	173	70	1.54e-09		Os90	190	76	4.21e-09
Yb74	174	70	6.54e-09		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	2.45e-09
Yb76	176	70	4.26e-10		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	1.04e-09		Ir91	191	77	2.19e-09
Lu76	176	71	1.51e-10		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	3.39e-09
Hf76	176	72	1.14e-09		Ir94	194	77	0.00e+00
Hf77	177	72	8.36e-10		Ir95	195	77	0.00e+00
Hf78	178	72	3.22e-09		Pt92	192	78	1.18e-09
Hf79	179	72	1.14e-09		Pt93	193	78	0.00e+00
Hf80	180	72	5.89e-09		Pt94	194	78	6.20e-09
Hf81	181	72	0.00e+00		Pt95	195	78	4.37e-09
Hf82	182	72	9.68e-11		Pt96	196	78	6.70e-09
Hf83	183	72	0.00e+00		Pt97	197	78	0.00e+00
Hf84	184	72	0.00e+00		Pt98	198	78	7.34e-10
Ta79	179	73	0.00e+00		Au97	197	79	2.59e-09
Ta80	180	73	1.72e-13		Au98	198	79	0.00e+00

Isotope	A	Z	
Au99	199	79	0.00e+00
Hg98	198	80	4.32e-09
Hg99	199	80	2.28e-09
Hg00	200	80	6.72e-09
Hg01	201	80	2.87e-09
Hg02	202	80	1.14e-08
Hg03	203	80	0.00e+00
Hg04	204	80	2.32e-10
Tl03	203	81	4.78e-09
Tl04	204	81	0.00e+00
Tl05	205	81	1.18e-08
Pb04	204	82	6.33e-09
Pb05	205	82	4.73e-10
Pb06	206	82	4.78e-08
Pb07	207	82	4.66e-08
Pb08	208	82	1.05e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	1.44e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 2.50; Z = 0.014000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	1.26e+00
He4	4	2	5.55e-01
C12	12	6	1.44e-02
C13	13	6	1.18e-04
C14	14	6	1.99e-10
N14	14	7	3.51e-03
N15	15	7	2.44e-06
O16	16	8	1.09e-02
O17	17	8	5.29e-05
O18	18	8	1.71e-05
F18	18	9	0.00e+00
F19	19	9	2.32e-06

Isotope	A	Z	
Ne20	20	10	1.99e-03
Ne21	21	10	5.37e-06
Ne22	22	10	1.56e-03
Na22	22	11	0.00e+00
Na23	23	11	1.07e-04
Na24	24	11	0.00e+00
Mg24	24	12	1.01e-03
Mg25	25	12	1.32e-04
Mg26	26	12	1.55e-04
Al26	26	13	4.22e-07
Al27	27	13	1.14e-04
Si28	28	14	1.29e-03
Si29	29	14	6.80e-05
Si30	30	14	4.70e-05
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	1.29e-05
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	6.78e-04
S33	33	16	5.67e-06
S34	34	16	3.24e-05
S35	35	16	0.00e+00
S36	36	16	1.76e-07
Cl35	35	17	6.92e-06
Cl36	36	17	1.95e-09
Cl37	37	17	2.68e-06
Ar36	36	18	1.55e-04
Ar37	37	18	0.00e+00
Ar38	38	18	3.01e-05
Ar39	39	18	2.11e-12
Ar40	40	18	9.05e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	6.52e-06
K40	40	19	2.48e-08
K41	41	19	5.56e-07
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	1.16e-04
Ca41	41	20	4.76e-09

Ca42	42	20	8.63e-07		Ni64	64	28	2.20e-06
Ca43	43	20	1.83e-07		Ni65	65	28	0.00e+00
Ca44	44	20	2.82e-06		Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00		Cu63	63	29	1.48e-06
Ca46	46	20	8.40e-09		Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00		Cu65	65	29	7.96e-07
Ca48	48	20	2.70e-07		Cu66	66	29	0.00e+00
Sc45	45	21	8.54e-08		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	2.04e-06
Sc47	47	21	0.00e+00		Zn65	65	30	0.00e+00
Sc48	48	21	0.00e+00		Zn66	66	30	1.37e-06
Sc49	49	21	0.00e+00		Zn67	67	30	2.20e-07
Ti46	46	22	4.72e-07		Zn68	68	30	1.06e-06
Ti47	47	22	4.20e-07		Zn69	69	30	0.00e+00
Ti48	48	22	4.21e-06		Zn70	70	30	2.72e-08
Ti49	49	22	3.53e-07		Ga69	69	31	1.23e-07
Ti50	50	22	3.98e-07		Ga70	70	31	0.00e+00
V50	50	23	1.78e-09		Ga71	71	31	1.02e-07
V51	51	23	7.35e-07		Ga72	72	31	0.00e+00
Cr50	50	24	1.41e-06		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	1.74e-07
Cr52	52	24	2.86e-05		Ge71	71	32	0.00e+00
Cr53	53	24	3.30e-06		Ge72	72	32	2.13e-07
Cr54	54	24	9.24e-07		Ge73	73	32	6.01e-08
Mn55	55	25	2.53e-05		Ge74	74	32	3.38e-07
Mn56	56	25	0.00e+00		Ge75	75	32	0.00e+00
Fe54	54	26	1.36e-04		Ge76	76	32	3.39e-08
Fe55	55	26	7.12e-13		Ge77	77	32	0.00e+00
Fe56	56	26	2.23e-03		As75	75	33	4.04e-08
Fe57	57	26	5.54e-05		As76	76	33	0.00e+00
Fe58	58	26	1.01e-05		As77	77	33	0.00e+00
Fe59	59	26	0.00e+00		Se76	76	34	6.85e-08
Fe60	60	26	1.69e-07		Se77	77	34	3.77e-08
Co59	59	27	7.51e-06		Se78	78	34	1.84e-07
Co60	60	27	3.42e-13		Se79	79	34	4.44e-09
Ni58	58	28	9.35e-05		Se80	80	34	2.67e-07
Ni59	59	28	3.30e-08		Se81	81	34	0.00e+00
Ni60	60	28	3.81e-05		Se82	82	34	2.28e-08
Ni61	61	28	1.98e-06		Br79	79	35	3.70e-08
Ni62	62	28	5.87e-06		Br80	80	35	0.00e+00
Ni63	63	28	4.11e-13		Br81	81	35	5.28e-08

Br82	82	35	0.00e+00		Mo92	92	42	1.89e-09
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	2.58e-09
Kr80	80	36	1.74e-08		Mo95	95	42	1.66e-08
Kr81	81	36	1.31e-09		Mo96	96	42	3.13e-08
Kr82	82	36	1.13e-07		Mo97	97	42	1.13e-08
Kr83	83	36	5.61e-08		Mo98	98	42	3.87e-08
Kr84	84	36	3.12e-07		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	1.64e-09
Kr86	86	36	7.93e-08		Tc97	97	43	1.09e-12
Kr87	87	36	0.00e+00		Tc98	98	43	1.73e-13
Kr88	88	36	0.00e+00		Tc99	99	43	9.24e-10
Rb85	85	37	5.26e-08		Ru96	96	44	4.73e-10
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	2.17e-08		Ru98	98	44	1.65e-10
Rb88	88	37	0.00e+00		Ru99	99	44	5.09e-09
Sr86	86	38	1.01e-07		Ru00	100	44	1.87e-08
Sr87	87	38	6.64e-08		Ru01	101	44	5.37e-09
Sr88	88	38	1.28e-06		Ru02	102	44	2.64e-08
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	2.07e-09
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	2.59e-07		Rh03	103	45	6.07e-09
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	1.39e-08
Y92	92	39	0.00e+00		Pd05	105	46	5.08e-09
Y93	93	39	0.00e+00		Pd06	106	46	1.74e-08
Zr90	90	40	2.93e-07		Pd07	107	46	2.79e-09
Zr91	91	40	6.67e-08		Pd08	108	46	2.09e-08
Zr92	92	40	1.05e-07		Pd09	109	46	0.00e+00
Zr93	93	40	2.47e-08		Pd10	110	46	1.19e-09
Zr94	94	40	1.46e-07		Ag07	107	47	1.56e-09
Zr95	95	40	0.00e+00		Ag09	109	47	6.76e-09
Zr96	96	40	5.19e-09		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	1.68e-10
Nb93	93	41	1.39e-08		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	1.68e-08
Nb95	95	41	0.00e+00		Cd11	111	48	6.42e-09
Nb96	96	41	0.00e+00		Cd12	112	48	2.16e-08
Nb97	97	41	0.00e+00		Cd13	113	48	6.82e-09

Cd14	114	48	3.05e-08	Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00	Xe34	134	54	3.79e-09
Cd16	116	48	1.11e-09	Xe35	135	54	0.00e+00
In13	113	49	4.33e-11	Xe36	136	54	2.87e-09
In15	115	49	6.51e-09	Cs33	133	55	7.95e-09
Sn14	114	50	1.39e-10	Cs34	134	55	0.00e+00
Sn15	115	50	7.19e-11	Cs35	135	55	1.16e-09
Sn16	116	50	4.11e-08	Cs36	136	55	0.00e+00
Sn17	117	50	1.32e-08	Cs37	137	55	0.00e+00
Sn18	118	50	5.45e-08	Ba34	134	56	1.63e-08
Sn19	119	50	1.72e-08	Ba35	135	56	7.69e-09
Sn20	120	50	8.26e-08	Ba36	136	56	4.17e-08
Sn21	121	50	0.00e+00	Ba37	137	56	3.38e-08
Sn22	122	50	1.47e-09	Ba38	138	56	2.54e-07
Sn23	123	50	0.00e+00	Ba39	139	56	0.00e+00
Sn24	124	50	1.33e-09	Ba40	140	56	0.00e+00
Sb21	121	51	6.86e-09	La39	139	57	2.78e-08
Sb22	122	51	0.00e+00	La40	140	57	0.00e+00
Sb23	123	51	1.17e-09	Ce40	140	58	6.91e-08
Sb24	124	51	0.00e+00	Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00	Ce42	142	58	1.07e-09
Te22	122	52	1.05e-08	Ce43	143	58	0.00e+00
Te23	123	52	3.79e-09	Ce44	144	58	0.00e+00
Te24	124	52	2.04e-08	Pr41	141	59	6.04e-09
Te25	125	52	8.50e-09	Pr42	142	59	0.00e+00
Te26	126	52	4.04e-08	Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00	Pr45	145	59	0.00e+00
Te28	128	52	1.35e-08	Nd42	142	60	1.57e-08
Te30	130	52	1.04e-08	Nd43	143	60	2.58e-09
I127	127	53	1.08e-08	Nd44	144	60	7.18e-09
I128	128	53	0.00e+00	Nd45	145	60	1.53e-09
I129	129	53	4.81e-11	Nd46	146	60	6.53e-09
I130	130	53	0.00e+00	Nd47	147	60	0.00e+00
I131	131	53	0.00e+00	Nd48	148	60	4.95e-10
I132	132	53	0.00e+00	Nd49	149	60	0.00e+00
I133	133	53	0.00e+00	Nd50	150	60	3.43e-10
Xe28	128	54	1.16e-08	Pm45	145	61	0.00e+00
Xe29	129	54	1.38e-08	Pm46	146	61	0.00e+00
Xe30	130	54	2.44e-08	Pm47	147	61	0.00e+00
Xe31	131	54	1.38e-08	Pm48	148	61	0.00e+00
Xe32	132	54	5.14e-08	Pm49	149	61	0.00e+00

Pm50	150	61	0.00e+00
Pm51	151	61	0.00e+00
Sm44	144	62	5.60e-11
Sm45	145	62	0.00e+00
Sm46	146	62	1.30e-13
Sm47	147	62	8.64e-10
Sm48	148	62	2.00e-09
Sm49	149	62	5.05e-10
Sm50	150	62	1.23e-09
Sm51	151	62	0.00e+00
Sm52	152	62	1.29e-09
Sm53	153	62	0.00e+00
Sm54	154	62	5.02e-10
Eu51	151	63	4.87e-10
Eu52	152	63	0.00e+00
Eu53	153	63	5.25e-10
Eu54	154	63	0.00e+00
Eu55	155	63	0.00e+00
Eu56	156	63	0.00e+00
Eu57	157	63	0.00e+00
Gd52	152	64	3.93e-11
Gd53	153	64	0.00e+00
Gd54	154	64	3.17e-10
Gd55	155	64	5.54e-10
Gd56	156	64	1.21e-09
Gd57	157	64	7.31e-10
Gd58	158	64	2.01e-09
Gd59	159	64	0.00e+00
Gd60	160	64	6.08e-10
Tb59	159	65	7.78e-10
Tb60	160	65	0.00e+00
Tb61	161	65	0.00e+00
Dy60	160	66	5.63e-10
Dy61	161	66	8.06e-10
Dy62	162	66	1.82e-09
Dy63	163	66	1.12e-09
Dy64	164	66	2.75e-09
Dy65	165	66	0.00e+00
Dy66	166	66	0.00e+00
Ho63	163	67	3.03e-13
Ho64	164	67	0.00e+00

Ho65	165	67	1.14e-09
Ho66	166	67	0.00e+00
Er64	164	68	1.74e-10
Er65	165	68	0.00e+00
Er66	166	68	1.47e-09
Er67	167	68	8.34e-10
Er68	168	68	2.02e-09
Er69	169	68	0.00e+00
Er70	170	68	4.44e-10
Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	5.82e-10
Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00
Tm73	173	69	0.00e+00
Yb70	170	70	5.61e-10
Yb71	171	70	8.07e-10
Yb72	172	70	1.91e-09
Yb73	173	70	1.01e-09
Yb74	174	70	3.78e-09
Yb75	175	70	0.00e+00
Yb76	176	70	3.48e-10
Yb77	177	70	0.00e+00
Lu75	175	71	7.16e-10
Lu76	176	71	8.15e-11
Lu77	177	71	0.00e+00
Hf76	176	72	6.35e-10
Hf77	177	72	5.98e-10
Hf78	178	72	1.90e-09
Hf79	179	72	7.12e-10
Hf80	180	72	3.36e-09
Hf81	181	72	0.00e+00
Hf82	182	72	2.85e-11
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	1.04e-13
Ta81	181	73	7.47e-10
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00

Isotope	A	Z	Value
Ta84	184	73	0.00e+00
W180	180	74	1.35e-12
W181	181	74	0.00e+00
W182	182	74	1.72e-09
W183	183	74	9.92e-10
W184	184	74	2.29e-09
W185	185	74	0.00e+00
W186	186	74	6.19e-10
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	5.38e-10
Re86	186	75	0.00e+00
Re87	187	75	3.42e-10
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	9.51e-10
Os87	187	76	4.07e-10
Os88	188	76	2.31e-09
Os89	189	76	1.32e-09
Os90	190	76	3.25e-09
Os91	191	76	0.00e+00
Os92	192	76	2.81e-09
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	2.54e-09
Ir92	192	77	0.00e+00
Ir93	193	77	4.15e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	7.32e-10
Pt93	193	78	0.00e+00
Pt94	194	78	5.97e-09
Pt95	195	78	5.02e-09
Pt96	196	78	5.66e-09
Pt97	197	78	0.00e+00
Pt98	198	78	9.60e-10
Au97	197	79	2.55e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	2.62e-09
Hg99	199	80	1.65e-09

Isotope	A	Z	Value
Hg00	200	80	4.23e-09
Hg01	201	80	1.88e-09
Hg02	202	80	7.11e-09
Hg03	203	80	0.00e+00
Hg04	204	80	2.96e-10
Tl03	203	81	2.98e-09
Tl04	204	81	0.00e+00
Tl05	205	81	7.65e-09
Pb04	204	82	4.00e-09
Pb05	205	82	2.61e-10
Pb06	206	82	3.15e-08
Pb07	207	82	2.99e-08
Pb08	208	82	5.70e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	1.58e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 2.50; Z = 0.020000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	1.25e+00
He4	4	2	5.60e-01
C12	12	6	1.67e-02
C13	13	6	1.72e-04
C14	14	6	2.10e-10
N14	14	7	4.88e-03
N15	15	7	3.67e-06
O16	16	8	1.58e-02
O17	17	8	7.66e-05
O18	18	8	2.56e-05
F18	18	9	0.00e+00
F19	19	9	3.30e-06
Ne20	20	10	2.89e-03
Ne21	21	10	7.61e-06
Ne22	22	10	2.20e-03

Na22	22	11	0.00e+00
Na23	23	11	1.59e-04
Na24	24	11	0.00e+00
Mg24	24	12	1.47e-03
Mg25	25	12	1.90e-04
Mg26	26	12	2.25e-04
Al26	26	13	7.71e-07
Al27	27	13	1.65e-04
Si28	28	14	1.88e-03
Si29	29	14	9.89e-05
Si30	30	14	6.83e-05
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	1.86e-05
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	9.86e-04
S33	33	16	8.26e-06
S34	34	16	4.71e-05
S35	35	16	0.00e+00
S36	36	16	2.52e-07
Cl35	35	17	1.01e-05
Cl36	36	17	2.84e-09
Cl37	37	17	3.96e-06
Ar36	36	18	2.25e-04
Ar37	37	18	0.00e+00
Ar38	38	18	4.38e-05
Ar39	39	18	2.06e-12
Ar40	40	18	1.18e-07
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	9.48e-06
K40	40	19	3.61e-08
K41	41	19	8.17e-07
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	1.69e-04
Ca41	41	20	7.32e-09
Ca42	42	20	1.26e-06
Ca43	43	20	2.67e-07
Ca44	44	20	4.09e-06

Ca45	45	20	0.00e+00
Ca46	46	20	1.04e-08
Ca47	47	20	0.00e+00
Ca48	48	20	3.93e-07
Sc45	45	21	1.23e-07
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	6.84e-07
Ti47	47	22	6.09e-07
Ti48	48	22	6.13e-06
Ti49	49	22	5.12e-07
Ti50	50	22	5.48e-07
V50	50	23	2.58e-09
V51	51	23	1.07e-06
Cr50	50	24	2.05e-06
Cr51	51	24	0.00e+00
Cr52	52	24	4.16e-05
Cr53	53	24	4.80e-06
Cr54	54	24	1.35e-06
Mn55	55	25	3.69e-05
Mn56	56	25	0.00e+00
Fe54	54	26	1.98e-04
Fe55	55	26	6.46e-13
Fe56	56	26	3.24e-03
Fe57	57	26	8.07e-05
Fe58	58	26	1.50e-05
Fe59	59	26	0.00e+00
Fe60	60	26	1.29e-07
Co59	59	27	1.10e-05
Co60	60	27	2.62e-13
Ni58	58	28	1.36e-04
Ni59	59	28	4.69e-08
Ni60	60	28	5.54e-05
Ni61	61	28	2.89e-06
Ni62	62	28	8.49e-06
Ni63	63	28	3.72e-13
Ni64	64	28	3.10e-06
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00

Cu63	63	29	2.10e-06		Kr80	80	36	2.81e-08
Cu64	64	29	0.00e+00		Kr81	81	36	2.14e-09
Cu65	65	29	1.15e-06		Kr82	82	36	1.70e-07
Cu66	66	29	0.00e+00		Kr83	83	36	8.28e-08
Cu67	67	29	0.00e+00		Kr84	84	36	4.54e-07
Zn64	64	30	2.97e-06		Kr85	85	36	0.00e+00
Zn65	65	30	0.00e+00		Kr86	86	36	8.38e-08
Zn66	66	30	2.01e-06		Kr87	87	36	0.00e+00
Zn67	67	30	3.24e-07		Kr88	88	36	0.00e+00
Zn68	68	30	1.57e-06		Rb85	85	37	7.44e-08
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	3.95e-08		Rb87	87	37	1.97e-08
Ga69	69	31	1.86e-07		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	1.51e-07
Ga71	71	31	1.57e-07		Sr87	87	38	9.90e-08
Ga72	72	31	0.00e+00		Sr88	88	38	1.55e-06
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	2.67e-07		Sr90	90	38	0.00e+00
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	3.24e-07		Sr92	92	38	0.00e+00
Ge73	73	32	9.13e-08		Y89	89	39	2.89e-07
Ge74	74	32	5.17e-07		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	4.92e-08		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	6.12e-08		Zr90	90	40	3.06e-07
As76	76	33	0.00e+00		Zr91	91	40	6.70e-08
As77	77	33	0.00e+00		Zr92	92	40	1.02e-07
Se76	76	34	1.06e-07		Zr93	93	40	2.22e-08
Se77	77	34	5.75e-08		Zr94	94	40	1.31e-07
Se78	78	34	2.82e-07		Zr95	95	40	0.00e+00
Se79	79	34	5.99e-09		Zr96	96	40	3.50e-09
Se80	80	34	4.00e-07		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	1.49e-08
Se82	82	34	3.30e-08		Nb94	94	41	0.00e+00
Br79	79	35	5.54e-08		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	7.96e-08		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	2.75e-09
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	3.07e-09

Mo95	95	42	1.51e-08		In13	113	49	6.30e-11
Mo96	96	42	2.76e-08		In15	115	49	5.42e-09
Mo97	97	42	1.02e-08		Sn14	114	50	2.03e-10
Mo98	98	42	3.38e-08		Sn15	115	50	1.05e-10
Mo99	99	42	0.00e+00		Sn16	116	50	3.13e-08
Mo00	100	42	2.08e-09		Sn17	117	50	1.05e-08
Tc97	97	43	1.95e-12		Sn18	118	50	4.06e-08
Tc98	98	43	2.74e-13		Sn19	119	50	1.30e-08
Tc99	99	43	6.91e-10		Sn20	120	50	5.80e-08
Ru96	96	44	6.88e-10		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	1.63e-09
Ru98	98	44	2.40e-10		Sn23	123	50	0.00e+00
Ru99	99	44	4.95e-09		Sn24	124	50	1.93e-09
Ru00	100	44	1.60e-08		Sb21	121	51	5.26e-09
Ru01	101	44	5.34e-09		Sb22	122	51	0.00e+00
Ru02	102	44	2.29e-08		Sb23	123	51	1.36e-09
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	2.66e-09		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	7.30e-09
Ru06	106	44	0.00e+00		Te23	123	52	2.64e-09
Rh03	103	45	6.03e-09		Te24	124	52	1.38e-08
Rh05	105	45	0.00e+00		Te25	125	52	6.99e-09
Pd04	104	46	1.17e-08		Te26	126	52	2.89e-08
Pd05	105	46	5.14e-09		Te27	127	52	0.00e+00
Pd06	106	46	1.50e-08		Te28	128	52	1.62e-08
Pd07	107	46	2.18e-09		Te30	130	52	1.52e-08
Pd08	108	46	1.75e-08		I127	127	53	1.17e-08
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	1.41e-09		I129	129	53	2.36e-11
Ag07	107	47	2.11e-09		I130	130	53	0.00e+00
Ag09	109	47	6.03e-09		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	2.05e-10		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	7.55e-09
Cd10	110	48	1.35e-08		Xe29	129	54	1.61e-08
Cd11	111	48	5.65e-09		Xe30	130	54	1.56e-08
Cd12	112	48	1.75e-08		Xe31	131	54	1.45e-08
Cd13	113	48	5.83e-09		Xe32	132	54	3.70e-08
Cd14	114	48	2.40e-08		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	5.11e-09
Cd16	116	48	1.15e-09		Xe35	135	54	0.00e+00

Xe36	136	54	4.17e-09		Sm45	145	62	0.00e+00
Cs33	133	55	6.50e-09		Sm46	146	62	1.79e-13
Cs34	134	55	0.00e+00		Sm47	147	62	7.00e-10
Cs35	135	55	4.39e-10		Sm48	148	62	1.27e-09
Cs36	136	55	0.00e+00		Sm49	149	62	5.03e-10
Cs37	137	55	0.00e+00		Sm50	150	62	7.75e-10
Ba34	134	56	9.94e-09		Sm51	151	62	0.00e+00
Ba35	135	56	6.03e-09		Sm52	152	62	1.13e-09
Ba36	136	56	2.41e-08		Sm53	153	62	0.00e+00
Ba37	137	56	2.05e-08		Sm54	154	62	6.59e-10
Ba38	138	56	1.47e-07		Eu51	151	63	5.64e-10
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	6.15e-10
La39	139	57	1.67e-08		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	4.21e-08		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	1.37e-09		Gd52	152	64	3.23e-11
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	2.29e-10
Pr41	141	59	4.16e-09		Gd55	155	64	6.34e-10
Pr42	142	59	0.00e+00		Gd56	156	64	1.13e-09
Pr43	143	59	0.00e+00		Gd57	157	64	7.58e-10
Pr45	145	59	0.00e+00		Gd58	158	64	1.67e-09
Nd42	142	60	9.63e-09		Gd59	159	64	0.00e+00
Nd43	143	60	1.98e-09		Gd60	160	64	8.38e-10
Nd44	144	60	5.03e-09		Tb59	159	65	8.35e-10
Nd45	145	60	1.24e-09		Tb60	160	65	0.00e+00
Nd46	146	60	4.39e-09		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	3.76e-10
Nd48	148	60	5.51e-10		Dy61	161	66	9.60e-10
Nd49	149	60	0.00e+00		Dy62	162	66	1.71e-09
Nd50	150	60	4.98e-10		Dy63	163	66	1.31e-09
Pm45	145	61	0.00e+00		Dy64	164	66	2.30e-09
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	1.70e-13
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	1.26e-09
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	8.14e-11		Er64	164	68	1.23e-10

Er65	165	68	0.00e+00
Er66	166	68	1.45e-09
Er67	167	68	8.93e-10
Er68	168	68	1.62e-09
Er69	169	68	0.00e+00
Er70	170	68	5.07e-10
Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	5.92e-10
Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00
Tm73	173	69	0.00e+00
Yb70	170	70	3.75e-10
Yb71	171	70	7.02e-10
Yb72	172	70	1.46e-09
Yb73	173	70	8.54e-10
Yb74	174	70	2.64e-09
Yb75	175	70	0.00e+00
Yb76	176	70	4.25e-10
Yb77	177	70	0.00e+00
Lu75	175	71	6.50e-10
Lu76	176	71	5.00e-11
Lu77	177	71	0.00e+00
Hf76	176	72	4.15e-10
Hf77	177	72	5.69e-10
Hf78	178	72	1.39e-09
Hf79	179	72	5.64e-10
Hf80	180	72	2.27e-09
Hf81	181	72	0.00e+00
Hf82	182	72	8.71e-12
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00
Ta81	181	73	5.61e-10
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	1.96e-12
W181	181	74	0.00e+00

W182	182	74	1.22e-09
W183	183	74	6.78e-10
W184	184	74	1.53e-09
W185	185	74	0.00e+00
W186	186	74	5.90e-10
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	4.41e-10
Re86	186	75	0.00e+00
Re87	187	75	4.01e-10
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	6.20e-10
Os87	187	76	3.64e-10
Os88	188	76	2.00e-09
Os89	189	76	1.62e-09
Os90	190	76	3.27e-09
Os91	191	76	0.00e+00
Os92	192	76	3.86e-09
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	3.40e-09
Ir92	192	77	0.00e+00
Ir93	193	77	5.71e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	5.31e-10
Pt93	193	78	0.00e+00
Pt94	194	78	7.15e-09
Pt95	195	78	6.68e-09
Pt96	196	78	6.15e-09
Pt97	197	78	0.00e+00
Pt98	198	78	1.38e-09
Au97	197	79	3.11e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.84e-09
Hg99	199	80	1.52e-09
Hg00	200	80	3.13e-09
Hg01	201	80	1.49e-09
Hg02	202	80	4.85e-09

Isotope	A	Z	YIELD
Hg03	203	80	0.00e+00
Hg04	204	80	4.23e-10
Tl03	203	81	2.03e-09
Tl04	204	81	0.00e+00
Tl05	205	81	5.12e-09
Pb04	204	82	2.65e-09
Pb05	205	82	1.23e-10
Pb06	206	82	2.01e-08
Pb07	207	82	1.85e-08
Pb08	208	82	3.90e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	2.13e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M_α = 3.00; Z = 0.000100 [α/Fe]=0.5; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [M_α]
H	1	1	1.56e+00
He4	4	2	5.96e-01
C12	12	6	1.18e-02
C13	13	6	4.69e-05
C14	14	6	4.67e-08
N14	14	7	6.46e-05
N15	15	7	2.38e-08
O16	16	8	6.07e-04
O17	17	8	3.06e-06
O18	18	8	1.28e-07
F18	18	9	0.00e+00
F19	19	9	9.79e-08
Ne20	20	10	5.71e-05
Ne21	21	10	5.67e-07
Ne22	22	10	3.24e-04
Na22	22	11	0.00e+00
Na23	23	11	6.60e-06
Na24	24	11	0.00e+00

Isotope	A	Z	YIELD
Mg24	24	12	2.91e-05
Mg25	25	12	2.33e-05
Mg26	26	12	3.81e-05
Al26	26	13	4.06e-09
Al27	27	13	2.37e-06
Si28	28	14	3.88e-05
Si29	29	14	1.20e-06
Si30	30	14	1.41e-06
Si31	31	14	0.00e+00
Si32	32	14	1.24e-11
P31	31	15	5.62e-07
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	1.85e-05
S33	33	16	5.52e-08
S34	34	16	3.90e-07
S35	35	16	0.00e+00
S36	36	16	1.01e-08
Cl35	35	17	6.19e-08
Cl36	36	17	1.43e-10
Cl37	37	17	2.56e-08
Ar36	36	18	4.20e-06
Ar37	37	18	0.00e+00
Ar38	38	18	2.81e-07
Ar39	39	18	1.31e-11
Ar40	40	18	9.98e-09
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	6.27e-08
K40	40	19	1.28e-10
K41	41	19	5.81e-09
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	3.15e-06
Ca41	41	20	9.61e-11
Ca42	42	20	9.31e-09
Ca43	43	20	2.16e-09
Ca44	44	20	2.71e-08
Ca45	45	20	0.00e+00
Ca46	46	20	2.60e-09
Ca47	47	20	0.00e+00

Ca48	48	20	2.49e-09		Cu66	66	29	0.00e+00
Sc45	45	21	1.71e-09		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	1.68e-08
Sc47	47	21	0.00e+00		Zn65	65	30	0.00e+00
Sc48	48	21	0.00e+00		Zn66	66	30	1.99e-08
Sc49	49	21	0.00e+00		Zn67	67	30	3.72e-09
Ti46	46	22	4.49e-09		Zn68	68	30	2.14e-08
Ti47	47	22	4.04e-09		Zn69	69	30	0.00e+00
Ti48	48	22	3.68e-08		Zn70	70	30	6.50e-10
Ti49	49	22	3.56e-09		Ga69	69	31	2.72e-09
Ti50	50	22	5.88e-09		Ga70	70	31	0.00e+00
V50	50	23	1.53e-11		Ga71	71	31	1.94e-09
V51	51	23	6.47e-09		Ga72	72	31	0.00e+00
Cr50	50	24	1.22e-08		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	3.88e-09
Cr52	52	24	2.46e-07		Ge71	71	32	0.00e+00
Cr53	53	24	2.84e-08		Ge72	72	32	4.43e-09
Cr54	54	24	9.75e-09		Ge73	73	32	1.31e-09
Mn55	55	25	2.14e-07		Ge74	74	32	7.64e-09
Mn56	56	25	0.00e+00		Ge75	75	32	0.00e+00
Fe54	54	26	1.17e-06		Ge76	76	32	8.84e-10
Fe55	55	26	0.00e+00		Ge77	77	32	0.00e+00
Fe56	56	26	1.91e-05		As75	75	33	8.39e-10
Fe57	57	26	4.62e-07		As76	76	33	0.00e+00
Fe58	58	26	1.26e-07		As77	77	33	0.00e+00
Fe59	59	26	0.00e+00		Se76	76	34	1.64e-09
Fe60	60	26	9.21e-08		Se77	77	34	7.67e-10
Co59	59	27	8.52e-08		Se78	78	34	4.40e-09
Co60	60	27	1.87e-13		Se79	79	34	6.22e-10
Ni58	58	28	8.02e-07		Se80	80	34	5.96e-09
Ni59	59	28	2.54e-11		Se81	81	34	0.00e+00
Ni60	60	28	3.38e-07		Se82	82	34	1.24e-09
Ni61	61	28	2.82e-08		Br79	79	35	4.07e-10
Ni62	62	28	8.44e-08		Br80	80	35	0.00e+00
Ni63	63	28	1.07e-11		Br81	81	35	1.04e-09
Ni64	64	28	6.88e-08		Br82	82	35	0.00e+00
Ni65	65	28	0.00e+00		Br83	83	35	0.00e+00
Ni66	66	28	0.00e+00		Br84	84	35	0.00e+00
Cu63	63	29	3.48e-08		Kr80	80	36	9.84e-11
Cu64	64	29	0.00e+00		Kr81	81	36	1.32e-11
Cu65	65	29	1.81e-08		Kr82	82	36	2.20e-09

Kr83	83	36	9.82e-10
Kr84	84	36	6.28e-09
Kr85	85	36	0.00e+00
Kr86	86	36	9.27e-09
Kr87	87	36	0.00e+00
Kr88	88	36	0.00e+00
Rb85	85	37	2.00e-09
Rb86	86	37	0.00e+00
Rb87	87	37	4.42e-09
Rb88	88	37	0.00e+00
Sr86	86	38	8.67e-10
Sr87	87	38	3.73e-10
Sr88	88	38	9.47e-09
Sr89	89	38	0.00e+00
Sr90	90	38	0.00e+00
Sr91	91	38	0.00e+00
Sr92	92	38	0.00e+00
Y89	89	39	2.59e-09
Y90	90	39	0.00e+00
Y91	91	39	0.00e+00
Y92	92	39	0.00e+00
Y93	93	39	0.00e+00
Zr90	90	40	2.12e-09
Zr91	91	40	6.67e-10
Zr92	92	40	1.07e-09
Zr93	93	40	3.74e-10
Zr94	94	40	1.38e-09
Zr95	95	40	0.00e+00
Zr96	96	40	1.06e-09
Zr97	97	40	0.00e+00
Nb93	93	41	4.76e-11
Nb94	94	41	0.00e+00
Nb95	95	41	0.00e+00
Nb96	96	41	0.00e+00
Nb97	97	41	0.00e+00
Mo92	92	42	1.63e-11
Mo93	93	42	0.00e+00
Mo94	94	42	1.04e-11
Mo95	95	42	2.03e-10
Mo96	96	42	2.96e-10
Mo97	97	42	1.51e-10

Mo98	98	42	4.94e-10
Mo99	99	42	0.00e+00
Mo00	100	42	7.69e-11
Tc97	97	43	0.00e+00
Tc98	98	43	0.00e+00
Tc99	99	43	4.90e-11
Ru96	96	44	4.11e-12
Ru97	97	44	0.00e+00
Ru98	98	44	1.41e-12
Ru99	99	44	2.73e-11
Ru00	100	44	2.16e-10
Ru01	101	44	6.40e-11
Ru02	102	44	3.33e-10
Ru03	103	44	0.00e+00
Ru04	104	44	6.94e-11
Ru05	105	44	0.00e+00
Ru06	106	44	0.00e+00
Rh03	103	45	7.31e-11
Rh05	105	45	0.00e+00
Pd04	104	46	1.52e-10
Pd05	105	46	5.90e-11
Pd06	106	46	2.16e-10
Pd07	107	46	3.79e-11
Pd08	108	46	2.58e-10
Pd09	109	46	0.00e+00
Pd10	110	46	6.08e-11
Ag07	107	47	1.19e-11
Ag09	109	47	8.14e-11
Ag11	111	47	0.00e+00
Cd08	108	48	6.51e-13
Cd09	109	48	0.00e+00
Cd10	110	48	1.88e-10
Cd11	111	48	7.84e-11
Cd12	112	48	2.77e-10
Cd13	113	48	8.42e-11
Cd14	114	48	3.87e-10
Cd15	115	48	0.00e+00
Cd16	116	48	1.59e-10
In13	113	49	3.74e-13
In15	115	49	8.46e-11
Sn14	114	50	1.19e-12

Sn15	115	50	6.15e-13	Cs35	135	55	1.01e-10
Sn16	116	50	4.25e-10	Cs36	136	55	0.00e+00
Sn17	117	50	1.64e-10	Cs37	137	55	0.00e+00
Sn18	118	50	7.44e-10	Ba34	134	56	1.48e-10
Sn19	119	50	2.24e-10	Ba35	135	56	6.11e-11
Sn20	120	50	1.12e-09	Ba36	136	56	4.62e-10
Sn21	121	50	0.00e+00	Ba37	137	56	1.14e-09
Sn22	122	50	5.59e-10	Ba38	138	56	4.61e-09
Sn23	123	50	0.00e+00	Ba39	139	56	0.00e+00
Sn24	124	50	2.90e-10	Ba40	140	56	0.00e+00
Sb21	121	51	9.46e-11	La39	139	57	5.50e-10
Sb22	122	51	0.00e+00	La40	140	57	0.00e+00
Sb23	123	51	6.76e-11	Ce40	140	58	1.13e-09
Sb24	124	51	0.00e+00	Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00	Ce42	142	58	2.93e-10
Te22	122	52	1.20e-10	Ce43	143	58	0.00e+00
Te23	123	52	3.95e-11	Ce44	144	58	0.00e+00
Te24	124	52	2.98e-10	Pr41	141	59	1.43e-10
Te25	125	52	1.23e-10	Pr42	142	59	0.00e+00
Te26	126	52	5.66e-10	Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00	Pr45	145	59	0.00e+00
Te28	128	52	1.93e-10	Nd42	142	60	2.21e-10
Te30	130	52	8.95e-11	Nd43	143	60	7.39e-11
I127	127	53	1.24e-10	Nd44	144	60	2.90e-10
I128	128	53	0.00e+00	Nd45	145	60	5.64e-11
I129	129	53	4.09e-12	Nd46	146	60	2.62e-10
I130	130	53	0.00e+00	Nd47	147	60	0.00e+00
I131	131	53	0.00e+00	Nd48	148	60	6.26e-11
I132	132	53	0.00e+00	Nd49	149	60	0.00e+00
I133	133	53	0.00e+00	Nd50	150	60	6.05e-12
Xe28	128	54	1.60e-10	Pm45	145	61	0.00e+00
Xe29	129	54	1.48e-10	Pm46	146	61	0.00e+00
Xe30	130	54	3.24e-10	Pm47	147	61	0.00e+00
Xe31	131	54	1.53e-10	Pm48	148	61	0.00e+00
Xe32	132	54	6.25e-10	Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00	Pm50	150	61	0.00e+00
Xe34	134	54	4.60e-10	Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00	Sm44	144	62	4.83e-13
Xe36	136	54	5.39e-10	Sm45	145	62	0.00e+00
Cs33	133	55	1.01e-10	Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00	Sm47	147	62	3.30e-11

Sm48	148	62	5.82e-11
Sm49	149	62	1.61e-11
Sm50	150	62	5.67e-11
Sm51	151	62	0.00e+00
Sm52	152	62	5.41e-11
Sm53	153	62	0.00e+00
Sm54	154	62	3.21e-11
Eu51	151	63	1.12e-11
Eu52	152	63	0.00e+00
Eu53	153	63	1.34e-11
Eu54	154	63	0.00e+00
Eu55	155	63	0.00e+00
Eu56	156	63	0.00e+00
Eu57	157	63	0.00e+00
Gd52	152	64	6.49e-13
Gd53	153	64	0.00e+00
Gd54	154	64	1.26e-11
Gd55	155	64	1.78e-11
Gd56	156	64	4.71e-11
Gd57	157	64	2.37e-11
Gd58	158	64	8.31e-11
Gd59	159	64	0.00e+00
Gd60	160	64	2.98e-11
Tb59	159	65	2.28e-11
Tb60	160	65	0.00e+00
Tb61	161	65	0.00e+00
Dy60	160	66	2.61e-11
Dy61	161	66	2.03e-11
Dy62	162	66	6.84e-11
Dy63	163	66	2.61e-11
Dy64	164	66	9.93e-11
Dy65	165	66	0.00e+00
Dy66	166	66	0.00e+00
Ho63	163	67	3.64e-13
Ho64	164	67	0.00e+00
Ho65	165	67	3.22e-11
Ho66	166	67	0.00e+00
Er64	164	68	1.18e-11
Er65	165	68	0.00e+00
Er66	166	68	4.48e-11
Er67	167	68	2.36e-11

Er68	168	68	8.05e-11
Er69	169	68	0.00e+00
Er70	170	68	4.92e-11
Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	1.95e-11
Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00
Tm73	173	69	0.00e+00
Yb70	170	70	2.16e-11
Yb71	171	70	3.91e-11
Yb72	172	70	8.56e-11
Yb73	173	70	4.27e-11
Yb74	174	70	1.90e-10
Yb75	175	70	0.00e+00
Yb76	176	70	6.00e-11
Yb77	177	70	0.00e+00
Lu75	175	71	2.89e-11
Lu76	176	71	4.47e-12
Lu77	177	71	0.00e+00
Hf76	176	72	3.30e-11
Hf77	177	72	2.63e-11
Hf78	178	72	1.08e-10
Hf79	179	72	3.85e-11
Hf80	180	72	2.03e-10
Hf81	181	72	0.00e+00
Hf82	182	72	2.38e-11
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00
Ta81	181	73	4.54e-11
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	0.00e+00
W181	181	74	0.00e+00
W182	182	74	7.24e-11
W183	183	74	5.57e-11
W184	184	74	1.37e-10

Isotope	A	Z	YIELD [M⊙]
W185	185	74	0.00e+00
W186	186	74	7.59e-11
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	3.01e-11
Re86	186	75	0.00e+00
Re87	187	75	2.22e-11
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	4.07e-11
Os87	187	76	1.20e-11
Os88	188	76	1.23e-10
Os89	189	76	3.43e-11
Os90	190	76	1.46e-10
Os91	191	76	0.00e+00
Os92	192	76	1.22e-10
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	4.54e-11
Ir92	192	77	0.00e+00
Ir93	193	77	7.10e-11
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	3.26e-11
Pt93	193	78	0.00e+00
Pt94	194	78	2.21e-10
Pt95	195	78	1.06e-10
Pt96	196	78	2.56e-10
Pt97	197	78	0.00e+00
Pt98	198	78	5.40e-11
Au97	197	79	8.39e-11
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.86e-10
Hg99	199	80	1.03e-10
Hg00	200	80	3.13e-10
Hg01	201	80	1.35e-10
Hg02	202	80	4.92e-10
Hg03	203	80	0.00e+00
Hg04	204	80	5.52e-11
Tl03	203	81	2.28e-10

Isotope	A	Z	YIELD [M⊙]
Tl04	204	81	0.00e+00
Tl05	205	81	3.34e-10
Pb04	204	82	2.37e-10
Pb05	205	82	2.02e-11
Pb06	206	82	3.97e-09
Pb07	207	82	3.86e-09
Pb08	208	82	9.80e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	2.77e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M⊙ = 3.00; Z = 0.000300 [α/Fe]=0.5; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [M⊙]
H	1	1	1.60e+00
He4	4	2	5.70e-01
C12	12	6	7.40e-03
C13	13	6	1.24e-05
C14	14	6	2.50e-09
N14	14	7	1.17e-04
N15	15	7	5.28e-08
O16	16	8	1.07e-03
O17	17	8	5.75e-06
O18	18	8	3.99e-07
F18	18	9	0.00e+00
F19	19	9	6.90e-07
Ne20	20	10	1.60e-04
Ne21	21	10	3.47e-07
Ne22	22	10	1.95e-04
Na22	22	11	0.00e+00
Na23	23	11	5.00e-06
Na24	24	11	0.00e+00
Mg24	24	12	8.05e-05
Mg25	25	12	1.13e-05
Mg26	26	12	1.58e-05

Al26	26	13	7.53e-09		Sc47	47	21	0.00e+00
Al27	27	13	3.97e-06		Sc48	48	21	0.00e+00
Si28	28	14	1.07e-04		Sc49	49	21	0.00e+00
Si29	29	14	2.16e-06		Ti46	46	22	1.22e-08
Si30	30	14	1.73e-06		Ti47	47	22	1.10e-08
Si31	31	14	0.00e+00		Ti48	48	22	1.07e-07
Si32	32	14	1.29e-11		Ti49	49	22	9.07e-09
P31	31	15	6.28e-07		Ti50	50	22	1.42e-08
P32	32	15	0.00e+00		V50	50	23	4.52e-11
P33	33	15	0.00e+00		V51	51	23	1.89e-08
S32	32	16	5.45e-05		Cr50	50	24	3.60e-08
S33	33	16	1.53e-07		Cr51	51	24	0.00e+00
S34	34	16	9.37e-07		Cr52	52	24	7.26e-07
S35	35	16	0.00e+00		Cr53	53	24	8.40e-08
S36	36	16	1.26e-08		Cr54	54	24	2.61e-08
Cl35	35	17	1.77e-07		Mn55	55	25	6.33e-07
Cl36	36	17	1.50e-10		Mn56	56	25	0.00e+00
Cl37	37	17	7.11e-08		Fe54	54	26	3.45e-06
Ar36	36	18	1.24e-05		Fe55	55	26	0.00e+00
Ar37	37	18	0.00e+00		Fe56	56	26	5.64e-05
Ar38	38	18	7.97e-07		Fe57	57	26	1.38e-06
Ar39	39	18	9.21e-11		Fe58	58	26	3.57e-07
Ar40	40	18	8.99e-09		Fe59	59	26	0.00e+00
Ar41	41	18	0.00e+00		Fe60	60	26	7.92e-08
Ar42	42	18	0.00e+00		Co59	59	27	2.32e-07
K39	39	19	1.72e-07		Co60	60	27	1.61e-13
K40	40	19	4.64e-10		Ni58	58	28	2.37e-06
K41	41	19	1.51e-08		Ni59	59	28	2.73e-10
K42	42	19	0.00e+00		Ni60	60	28	9.83e-07
K43	43	19	0.00e+00		Ni61	61	28	6.24e-08
Ca40	40	20	9.33e-06		Ni62	62	28	1.82e-07
Ca41	41	20	3.94e-10		Ni63	63	28	6.43e-11
Ca42	42	20	2.47e-08		Ni64	64	28	8.34e-08
Ca43	43	20	5.53e-09		Ni65	65	28	0.00e+00
Ca44	44	20	7.44e-08		Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00		Cu63	63	29	5.51e-08
Ca46	46	20	1.69e-09		Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00		Cu65	65	29	2.46e-08
Ca48	48	20	6.89e-09		Cu66	66	29	0.00e+00
Sc45	45	21	3.14e-09		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	4.98e-08

Zn65	65	30	0.00e+00
Zn66	66	30	3.77e-08
Zn67	67	30	6.27e-09
Zn68	68	30	3.25e-08
Zn69	69	30	0.00e+00
Zn70	70	30	9.00e-10
Ga69	69	31	3.64e-09
Ga70	70	31	0.00e+00
Ga71	71	31	2.55e-09
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	4.90e-09
Ge71	71	32	0.00e+00
Ge72	72	32	5.92e-09
Ge73	73	32	1.72e-09
Ge74	74	32	9.40e-09
Ge75	75	32	0.00e+00
Ge76	76	32	1.16e-09
Ge77	77	32	0.00e+00
As75	75	33	1.12e-09
As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	1.83e-09
Se77	77	34	9.97e-10
Se78	78	34	4.82e-09
Se79	79	34	5.33e-10
Se80	80	34	7.37e-09
Se81	81	34	0.00e+00
Se82	82	34	8.75e-10
Br79	79	35	7.38e-10
Br80	80	35	0.00e+00
Br81	81	35	1.28e-09
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	1.79e-10
Kr81	81	36	1.28e-11
Kr82	82	36	2.37e-09
Kr83	83	36	1.30e-09
Kr84	84	36	7.74e-09
Kr85	85	36	0.00e+00

Kr86	86	36	7.55e-09
Kr87	87	36	0.00e+00
Kr88	88	36	0.00e+00
Rb85	85	37	2.04e-09
Rb86	86	37	0.00e+00
Rb87	87	37	3.30e-09
Rb88	88	37	0.00e+00
Sr86	86	38	1.04e-09
Sr87	87	38	5.83e-10
Sr88	88	38	1.59e-08
Sr89	89	38	0.00e+00
Sr90	90	38	1.19e-13
Sr91	91	38	0.00e+00
Sr92	92	38	0.00e+00
Y89	89	39	4.59e-09
Y90	90	39	0.00e+00
Y91	91	39	0.00e+00
Y92	92	39	0.00e+00
Y93	93	39	0.00e+00
Zr90	90	40	4.20e-09
Zr91	91	40	1.26e-09
Zr92	92	40	2.09e-09
Zr93	93	40	7.03e-10
Zr94	94	40	2.72e-09
Zr95	95	40	0.00e+00
Zr96	96	40	1.55e-09
Zr97	97	40	0.00e+00
Nb93	93	41	1.20e-10
Nb94	94	41	0.00e+00
Nb95	95	41	0.00e+00
Nb96	96	41	0.00e+00
Nb97	97	41	0.00e+00
Mo92	92	42	4.83e-11
Mo93	93	42	0.00e+00
Mo94	94	42	3.09e-11
Mo95	95	42	3.86e-10
Mo96	96	42	5.94e-10
Mo97	97	42	2.74e-10
Mo98	98	42	8.61e-10
Mo99	99	42	0.00e+00
Mo00	100	42	1.18e-10

Tc97	97	43	0.00e+00
Tc98	98	43	0.00e+00
Tc99	99	43	8.15e-11
Ru96	96	44	1.22e-11
Ru97	97	44	0.00e+00
Ru98	98	44	4.19e-12
Ru99	99	44	5.53e-11
Ru00	100	44	3.72e-10
Ru01	101	44	1.21e-10
Ru02	102	44	5.69e-10
Ru03	103	44	0.00e+00
Ru04	104	44	1.13e-10
Ru05	105	44	0.00e+00
Ru06	106	44	0.00e+00
Rh03	103	45	1.38e-10
Rh05	105	45	0.00e+00
Pd04	104	46	2.59e-10
Pd05	105	46	1.13e-10
Pd06	106	46	3.64e-10
Pd07	107	46	5.99e-11
Pd08	108	46	4.31e-10
Pd09	109	46	0.00e+00
Pd10	110	46	8.70e-11
Ag07	107	47	3.47e-11
Ag09	109	47	1.43e-10
Ag11	111	47	0.00e+00
Cd08	108	48	1.92e-12
Cd09	109	48	0.00e+00
Cd10	110	48	3.17e-10
Cd11	111	48	1.36e-10
Cd12	112	48	4.57e-10
Cd13	113	48	1.44e-10
Cd14	114	48	6.33e-10
Cd15	115	48	0.00e+00
Cd16	116	48	1.94e-10
In13	113	49	1.11e-12
In15	115	49	1.41e-10
Sn14	114	50	3.51e-12
Sn15	115	50	1.82e-12
Sn16	116	50	7.40e-10
Sn17	117	50	2.74e-10

Sn18	118	50	1.23e-09
Sn19	119	50	3.77e-10
Sn20	120	50	1.97e-09
Sn21	121	50	0.00e+00
Sn22	122	50	7.32e-10
Sn23	123	50	0.00e+00
Sn24	124	50	2.37e-10
Sb21	121	51	1.69e-10
Sb22	122	51	0.00e+00
Sb23	123	51	1.02e-10
Sb24	124	51	0.00e+00
Sb25	125	51	0.00e+00
Te22	122	52	2.19e-10
Te23	123	52	7.43e-11
Te24	124	52	5.18e-10
Te25	125	52	2.21e-10
Te26	126	52	1.02e-09
Te27	127	52	0.00e+00
Te28	128	52	3.91e-10
Te30	130	52	2.65e-10
I127	127	53	2.77e-10
I128	128	53	0.00e+00
I129	129	53	5.38e-12
I130	130	53	0.00e+00
I131	131	53	0.00e+00
I132	132	53	0.00e+00
I133	133	53	0.00e+00
Xe28	128	54	2.84e-10
Xe29	129	54	3.53e-10
Xe30	130	54	5.85e-10
Xe31	131	54	3.48e-10
Xe32	132	54	1.26e-09
Xe33	133	54	0.00e+00
Xe34	134	54	6.82e-10
Xe35	135	54	0.00e+00
Xe36	136	54	2.65e-10
Cs33	133	55	2.08e-10
Cs34	134	55	0.00e+00
Cs35	135	55	1.58e-10
Cs36	136	55	0.00e+00
Cs37	137	55	1.36e-13

Ba34	134	56	3.08e-10
Ba35	135	56	1.43e-10
Ba36	136	56	9.95e-10
Ba37	137	56	1.76e-09
Ba38	138	56	1.34e-08
Ba39	139	56	0.00e+00
Ba40	140	56	0.00e+00
La39	139	57	1.65e-09
La40	140	57	0.00e+00
Ce40	140	58	4.18e-09
Ce41	141	58	0.00e+00
Ce42	142	58	7.65e-10
Ce43	143	58	0.00e+00
Ce44	144	58	0.00e+00
Pr41	141	59	4.98e-10
Pr42	142	59	0.00e+00
Pr43	143	59	0.00e+00
Pr45	145	59	0.00e+00
Nd42	142	60	8.88e-10
Nd43	143	60	2.39e-10
Nd44	144	60	8.61e-10
Nd45	145	60	1.67e-10
Nd46	146	60	7.62e-10
Nd47	147	60	0.00e+00
Nd48	148	60	1.63e-10
Nd49	149	60	0.00e+00
Nd50	150	60	1.56e-11
Pm45	145	61	0.00e+00
Pm46	146	61	0.00e+00
Pm47	147	61	0.00e+00
Pm48	148	61	0.00e+00
Pm49	149	61	0.00e+00
Pm50	150	61	0.00e+00
Pm51	151	61	0.00e+00
Sm44	144	62	1.43e-12
Sm45	145	62	0.00e+00
Sm46	146	62	0.00e+00
Sm47	147	62	9.50e-11
Sm48	148	62	1.78e-10
Sm49	149	62	4.56e-11
Sm50	150	62	1.63e-10

Sm51	151	62	0.00e+00
Sm52	152	62	1.53e-10
Sm53	153	62	0.00e+00
Sm54	154	62	8.15e-11
Eu51	151	63	3.21e-11
Eu52	152	63	0.00e+00
Eu53	153	63	3.81e-11
Eu54	154	63	0.00e+00
Eu55	155	63	0.00e+00
Eu56	156	63	0.00e+00
Eu57	157	63	0.00e+00
Gd52	152	64	1.87e-12
Gd53	153	64	0.00e+00
Gd54	154	64	3.68e-11
Gd55	155	64	4.94e-11
Gd56	156	64	1.31e-10
Gd57	157	64	6.61e-11
Gd58	158	64	2.30e-10
Gd59	159	64	0.00e+00
Gd60	160	64	7.24e-11
Tb59	159	65	6.30e-11
Tb60	160	65	0.00e+00
Tb61	161	65	0.00e+00
Dy60	160	66	7.27e-11
Dy61	161	66	5.55e-11
Dy62	162	66	1.85e-10
Dy63	163	66	7.07e-11
Dy64	164	66	2.63e-10
Dy65	165	66	0.00e+00
Dy66	166	66	0.00e+00
Ho63	163	67	1.30e-12
Ho64	164	67	0.00e+00
Ho65	165	67	8.72e-11
Ho66	166	67	0.00e+00
Er64	164	68	3.18e-11
Er65	165	68	0.00e+00
Er66	166	68	1.23e-10
Er67	167	68	6.38e-11
Er68	168	68	2.13e-10
Er69	169	68	0.00e+00
Er70	170	68	1.14e-10

Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	7.07e-11
Tm69	169	69	5.06e-11		Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00		Re87	187	75	5.07e-11
Tm71	171	69	0.00e+00		Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00		Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00		Os86	186	76	1.02e-10
Yb70	170	70	5.74e-11		Os87	187	76	3.11e-11
Yb71	171	70	9.89e-11		Os88	188	76	2.89e-10
Yb72	172	70	2.23e-10		Os89	189	76	8.44e-11
Yb73	173	70	1.10e-10		Os90	190	76	3.40e-10
Yb74	174	70	4.82e-10		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	2.67e-10
Yb76	176	70	1.28e-10		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	7.30e-11		Ir91	191	77	1.16e-10
Lu76	176	71	3.37e-11		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	1.79e-10
Hf76	176	72	2.94e-11		Ir94	194	77	0.00e+00
Hf77	177	72	6.79e-11		Ir95	195	77	0.00e+00
Hf78	178	72	2.69e-10		Pt92	192	78	7.82e-11
Hf79	179	72	9.58e-11		Pt93	193	78	0.00e+00
Hf80	180	72	4.96e-10		Pt94	194	78	4.93e-10
Hf81	181	72	0.00e+00		Pt95	195	78	2.56e-10
Hf82	182	72	4.69e-11		Pt96	196	78	5.65e-10
Hf83	183	72	0.00e+00		Pt97	197	78	0.00e+00
Hf84	184	72	0.00e+00		Pt98	198	78	1.00e-10
Ta79	179	73	0.00e+00		Au97	197	79	1.90e-10
Ta80	180	73	0.00e+00		Au98	198	79	0.00e+00
Ta81	181	73	1.09e-10		Au99	199	79	0.00e+00
Ta82	182	73	0.00e+00		Hg98	198	80	4.08e-10
Ta83	183	73	0.00e+00		Hg99	199	80	2.19e-10
Ta84	184	73	0.00e+00		Hg00	200	80	6.64e-10
W180	180	74	0.00e+00		Hg01	201	80	2.86e-10
W181	181	74	0.00e+00		Hg02	202	80	1.08e-09
W182	182	74	1.81e-10		Hg03	203	80	0.00e+00
W183	183	74	1.32e-10		Hg04	204	80	9.18e-11
W184	184	74	3.27e-10		Tl03	203	81	5.03e-10
W185	185	74	0.00e+00		Tl04	204	81	0.00e+00
W186	186	74	1.71e-10		Tl05	205	81	8.03e-10
W187	187	74	0.00e+00		Pb04	204	82	5.62e-10

Isotope	A	Z	YIELD
Pb05	205	82	3.10e-11
Pb06	206	82	7.95e-09
Pb07	207	82	9.52e-09
Pb08	208	82	2.32e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	5.02e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M_α = 3.00; Z = 0.001000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [M_α]
H	1	1	1.62e+00
He4	4	2	5.73e-01
C12	12	6	7.68e-03
C13	13	6	1.78e-05
C14	14	6	1.22e-09
N14	14	7	3.20e-04
N15	15	7	1.80e-07
O16	16	8	1.12e-03
O17	17	8	5.75e-06
O18	18	8	1.38e-06
F18	18	9	0.00e+00
F19	19	9	8.27e-07
Ne20	20	10	1.70e-04
Ne21	21	10	6.25e-07
Ne22	22	10	2.43e-04
Na22	22	11	0.00e+00
Na23	23	11	1.04e-05
Na24	24	11	0.00e+00
Mg24	24	12	8.58e-05
Mg25	25	12	2.04e-05
Mg26	26	12	2.45e-05
Al26	26	13	8.69e-09
Al27	27	13	1.15e-05
Si28	28	14	1.14e-04

Isotope	A	Z	YIELD
Si29	29	14	6.19e-06
Si30	30	14	4.44e-06
Si31	31	14	0.00e+00
Si32	32	14	9.71e-13
P31	31	15	1.27e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	5.80e-05
S33	33	16	4.83e-07
S34	34	16	2.85e-06
S35	35	16	0.00e+00
S36	36	16	2.09e-08
Cl35	35	17	5.93e-07
Cl36	36	17	2.73e-10
Cl37	37	17	2.14e-07
Ar36	36	18	1.32e-05
Ar37	37	18	0.00e+00
Ar38	38	18	2.59e-06
Ar39	39	18	1.72e-11
Ar40	40	18	1.23e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	5.60e-07
K40	40	19	1.21e-09
K41	41	19	4.51e-08
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	9.94e-06
Ca41	41	20	4.82e-10
Ca42	42	20	7.42e-08
Ca43	43	20	1.61e-08
Ca44	44	20	2.40e-07
Ca45	45	20	0.00e+00
Ca46	46	20	2.18e-09
Ca47	47	20	0.00e+00
Ca48	48	20	2.31e-08
Sc45	45	21	7.99e-09
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00

Ti46	46	22	3.94e-08
Ti47	47	22	3.59e-08
Ti48	48	22	3.60e-07
Ti49	49	22	2.90e-08
Ti50	50	22	3.49e-08
V50	50	23	1.52e-10
V51	51	23	6.27e-08
Cr50	50	24	1.21e-07
Cr51	51	24	0.00e+00
Cr52	52	24	2.44e-06
Cr53	53	24	2.83e-07
Cr54	54	24	8.54e-08
Mn55	55	25	2.13e-06
Mn56	56	25	0.00e+00
Fe54	54	26	1.16e-05
Fe55	55	26	0.00e+00
Fe56	56	26	1.90e-04
Fe57	57	26	4.70e-06
Fe58	58	26	1.25e-06
Fe59	59	26	0.00e+00
Fe60	60	26	2.17e-07
Co59	59	27	7.87e-07
Co60	60	27	4.40e-13
Ni58	58	28	7.99e-06
Ni59	59	28	1.32e-09
Ni60	60	28	3.30e-06
Ni61	61	28	2.02e-07
Ni62	62	28	5.86e-07
Ni63	63	28	2.86e-11
Ni64	64	28	2.35e-07
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	1.69e-07
Cu64	64	29	0.00e+00
Cu65	65	29	7.02e-08
Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	1.67e-07
Zn65	65	30	0.00e+00
Zn66	66	30	1.17e-07
Zn67	67	30	1.88e-08

Zn68	68	30	9.29e-08
Zn69	69	30	0.00e+00
Zn70	70	30	2.76e-09
Ga69	69	31	9.88e-09
Ga70	70	31	0.00e+00
Ga71	71	31	6.82e-09
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	1.27e-08
Ge71	71	32	0.00e+00
Ge72	72	32	1.56e-08
Ge73	73	32	4.50e-09
Ge74	74	32	2.33e-08
Ge75	75	32	0.00e+00
Ge76	76	32	3.45e-09
Ge77	77	32	0.00e+00
As75	75	33	2.91e-09
As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	4.23e-09
Se77	77	34	2.57e-09
Se78	78	34	1.10e-08
Se79	79	34	8.98e-10
Se80	80	34	1.83e-08
Se81	81	34	0.00e+00
Se82	82	34	2.40e-09
Br79	79	35	2.25e-09
Br80	80	35	0.00e+00
Br81	81	35	3.14e-09
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	5.21e-10
Kr81	81	36	2.03e-11
Kr82	82	36	5.11e-09
Kr83	83	36	3.30e-09
Kr84	84	36	1.87e-08
Kr85	85	36	0.00e+00
Kr86	86	36	1.41e-08
Kr87	87	36	0.00e+00
Kr88	88	36	0.00e+00

Rb85	85	37	4.34e-09		Ru96	96	44	4.09e-11
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	5.80e-09		Ru98	98	44	1.41e-11
Rb88	88	37	0.00e+00		Ru99	99	44	1.61e-10
Sr86	86	38	2.18e-09		Ru00	100	44	8.42e-10
Sr87	87	38	1.31e-09		Ru01	101	44	3.11e-10
Sr88	88	38	3.60e-08		Ru02	102	44	1.32e-09
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	3.06e-10
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	1.05e-08		Rh03	103	45	3.53e-10
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	5.83e-10
Y92	92	39	0.00e+00		Pd05	105	46	2.96e-10
Y93	93	39	0.00e+00		Pd06	106	46	8.53e-10
Zr90	90	40	9.87e-09		Pd07	107	46	1.30e-10
Zr91	91	40	2.94e-09		Pd08	108	46	9.99e-10
Zr92	92	40	4.91e-09		Pd09	109	46	0.00e+00
Zr93	93	40	1.57e-09		Pd10	110	46	2.30e-10
Zr94	94	40	6.40e-09		Ag07	107	47	1.16e-10
Zr95	95	40	0.00e+00		Ag09	109	47	3.49e-10
Zr96	96	40	3.54e-09		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	6.47e-12
Nb93	93	41	3.77e-10		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	7.16e-10
Nb95	95	41	0.00e+00		Cd11	111	48	3.29e-10
Nb96	96	41	0.00e+00		Cd12	112	48	1.06e-09
Nb97	97	41	0.00e+00		Cd13	113	48	3.46e-10
Mo92	92	42	1.63e-10		Cd14	114	48	1.45e-09
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	1.04e-10		Cd16	116	48	4.85e-10
Mo95	95	42	9.48e-10		In13	113	49	3.73e-12
Mo96	96	42	1.41e-09		In15	115	49	3.36e-10
Mo97	97	42	6.51e-10		Sn14	114	50	1.18e-11
Mo98	98	42	1.99e-09		Sn15	115	50	6.12e-12
Mo99	99	42	0.00e+00		Sn16	116	50	1.70e-09
Mo00	100	42	3.10e-10		Sn17	117	50	6.55e-10
Tc97	97	43	0.00e+00		Sn18	118	50	2.94e-09
Tc98	98	43	0.00e+00		Sn19	119	50	9.12e-10
Tc99	99	43	1.71e-10		Sn20	120	50	4.83e-09

Sn21	121	50	0.00e+00		Ba37	137	56	4.24e-09
Sn22	122	50	1.90e-09		Ba38	138	56	3.47e-08
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00
Sn24	124	50	5.66e-10		Ba40	140	56	0.00e+00
Sb21	121	51	4.27e-10		La39	139	57	4.32e-09
Sb22	122	51	0.00e+00		La40	140	57	0.00e+00
Sb23	123	51	2.78e-10		Ce40	140	58	1.11e-08
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	2.27e-09
Te22	122	52	5.38e-10		Ce43	143	58	0.00e+00
Te23	123	52	1.82e-10		Ce44	144	58	0.00e+00
Te24	124	52	1.28e-09		Pr41	141	59	1.37e-09
Te25	125	52	5.80e-10		Pr42	142	59	0.00e+00
Te26	126	52	2.54e-09		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	1.20e-09		Nd42	142	60	2.27e-09
Te30	130	52	8.92e-10		Nd43	143	60	6.58e-10
I127	127	53	8.11e-10		Nd44	144	60	2.35e-09
I128	128	53	0.00e+00		Nd45	145	60	4.57e-10
I129	129	53	1.20e-11		Nd46	146	60	2.01e-09
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	4.45e-10
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	5.20e-11
Xe28	128	54	6.81e-10		Pm45	145	61	0.00e+00
Xe29	129	54	1.07e-09		Pm46	146	61	0.00e+00
Xe30	130	54	1.39e-09		Pm47	147	61	0.00e+00
Xe31	131	54	1.01e-09		Pm48	148	61	0.00e+00
Xe32	132	54	3.15e-09		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	1.87e-09		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	4.81e-12
Xe36	136	54	6.12e-10		Sm45	145	62	0.00e+00
Cs33	133	55	5.45e-10		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	2.52e-10
Cs35	135	55	4.02e-10		Sm48	148	62	4.61e-10
Cs36	136	55	0.00e+00		Sm49	149	62	1.23e-10
Cs37	137	55	1.40e-13		Sm50	150	62	4.26e-10
Ba34	134	56	7.25e-10		Sm51	151	62	0.00e+00
Ba35	135	56	3.80e-10		Sm52	152	62	4.08e-10
Ba36	136	56	2.38e-09		Sm53	153	62	0.00e+00

Sm54	154	62	2.31e-10
Eu51	151	63	9.00e-11
Eu52	152	63	0.00e+00
Eu53	153	63	1.06e-10
Eu54	154	63	0.00e+00
Eu55	155	63	0.00e+00
Eu56	156	63	0.00e+00
Eu57	157	63	0.00e+00
Gd52	152	64	5.42e-12
Gd53	153	64	0.00e+00
Gd54	154	64	9.82e-11
Gd55	155	64	1.36e-10
Gd56	156	64	3.56e-10
Gd57	157	64	1.81e-10
Gd58	158	64	6.10e-10
Gd59	159	64	0.00e+00
Gd60	160	64	2.11e-10
Tb59	159	65	1.72e-10
Tb60	160	65	0.00e+00
Tb61	161	65	0.00e+00
Dy60	160	66	1.91e-10
Dy61	161	66	1.55e-10
Dy62	162	66	4.96e-10
Dy63	163	66	1.98e-10
Dy64	164	66	6.98e-10
Dy65	165	66	0.00e+00
Dy66	166	66	0.00e+00
Ho63	163	67	2.91e-12
Ho64	164	67	0.00e+00
Ho65	165	67	2.41e-10
Ho66	166	67	0.00e+00
Er64	164	68	8.60e-11
Er65	165	68	0.00e+00
Er66	166	68	3.29e-10
Er67	167	68	1.71e-10
Er68	168	68	5.49e-10
Er69	169	68	0.00e+00
Er70	170	68	3.04e-10
Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	1.32e-10

Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00
Tm73	173	69	0.00e+00
Yb70	170	70	1.50e-10
Yb71	171	70	2.57e-10
Yb72	172	70	5.81e-10
Yb73	173	70	2.87e-10
Yb74	174	70	1.24e-09
Yb75	175	70	0.00e+00
Yb76	176	70	3.56e-10
Yb77	177	70	0.00e+00
Lu75	175	71	1.93e-10
Lu76	176	71	2.94e-11
Lu77	177	71	0.00e+00
Hf76	176	72	2.07e-10
Hf77	177	72	1.73e-10
Hf78	178	72	7.03e-10
Hf79	179	72	2.48e-10
Hf80	180	72	1.27e-09
Hf81	181	72	0.00e+00
Hf82	182	72	2.08e-10
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	1.07e-13
Ta81	181	73	2.75e-10
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	1.17e-13
W181	181	74	0.00e+00
W182	182	74	4.58e-10
W183	183	74	3.42e-10
W184	184	74	8.41e-10
W185	185	74	0.00e+00
W186	186	74	4.45e-10
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	1.81e-10
Re86	186	75	0.00e+00

Re87	187	75	1.35e-10
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	2.64e-10
Os87	187	76	8.09e-11
Os88	188	76	7.54e-10
Os89	189	76	2.37e-10
Os90	190	76	9.12e-10
Os91	191	76	0.00e+00
Os92	192	76	7.54e-10
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	3.45e-10
Ir92	192	77	0.00e+00
Ir93	193	77	5.39e-10
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	2.06e-10
Pt93	193	78	0.00e+00
Pt94	194	78	1.37e-09
Pt95	195	78	7.51e-10
Pt96	196	78	1.49e-09
Pt97	197	78	0.00e+00
Pt98	198	78	2.90e-10
Au97	197	79	5.16e-10
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	9.97e-10
Hg99	199	80	5.49e-10
Hg00	200	80	1.63e-09
Hg01	201	80	7.10e-10
Hg02	202	80	2.66e-09
Hg03	203	80	0.00e+00
Hg04	204	80	2.70e-10
Tl03	203	81	1.26e-09
Tl04	204	81	0.00e+00
Tl05	205	81	2.15e-09
Pb04	204	82	1.37e-09
Pb05	205	82	7.23e-11
Pb06	206	82	1.88e-08
Pb07	207	82	2.34e-08

Pb08	208	82	4.80e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	1.01e-08
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 3.00; Z = 0.002000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	1.62e+00
He4	4	2	5.90e-01
C12	12	6	7.78e-03
C13	13	6	2.37e-05
C14	14	6	2.30e-08
N14	14	7	6.53e-04
N15	15	7	3.82e-07
O16	16	8	2.08e-03
O17	17	8	1.66e-05
O18	18	8	2.60e-06
F18	18	9	0.00e+00
F19	19	9	3.21e-07
Ne20	20	10	3.43e-04
Ne21	21	10	1.20e-06
Ne22	22	10	3.26e-04
Na22	22	11	0.00e+00
Na23	23	11	1.92e-05
Na24	24	11	0.00e+00
Mg24	24	12	1.72e-04
Mg25	25	12	3.23e-05
Mg26	26	12	3.48e-05
Al26	26	13	2.43e-08
Al27	27	13	2.42e-05
Si28	28	14	2.27e-04
Si29	29	14	1.21e-05
Si30	30	14	8.52e-06
Si31	31	14	0.00e+00

Si32	32	14	4.32e-13
P31	31	15	2.35e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	1.18e-04
S33	33	16	9.79e-07
S34	34	16	5.72e-06
S35	35	16	0.00e+00
S36	36	16	3.53e-08
Cl35	35	17	1.20e-06
Cl36	36	17	5.77e-10
Cl37	37	17	4.33e-07
Ar36	36	18	2.69e-05
Ar37	37	18	0.00e+00
Ar38	38	18	5.24e-06
Ar39	39	18	2.35e-11
Ar40	40	18	1.82e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	1.13e-06
K40	40	19	2.77e-09
K41	41	19	9.13e-08
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	2.02e-05
Ca41	41	20	1.16e-09
Ca42	42	20	1.49e-07
Ca43	43	20	3.23e-08
Ca44	44	20	4.84e-07
Ca45	45	20	0.00e+00
Ca46	46	20	2.60e-09
Ca47	47	20	0.00e+00
Ca48	48	20	4.69e-08
Sc45	45	21	1.54e-08
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	7.96e-08
Ti47	47	22	7.26e-08
Ti48	48	22	7.30e-07

Ti49	49	22	5.95e-08
Ti50	50	22	6.99e-08
V50	50	23	3.09e-10
V51	51	23	1.27e-07
Cr50	50	24	2.45e-07
Cr51	51	24	0.00e+00
Cr52	52	24	4.96e-06
Cr53	53	24	5.74e-07
Cr54	54	24	1.70e-07
Mn55	55	25	4.34e-06
Mn56	56	25	0.00e+00
Fe54	54	26	2.36e-05
Fe55	55	26	3.23e-13
Fe56	56	26	3.86e-04
Fe57	57	26	9.65e-06
Fe58	58	26	2.43e-06
Fe59	59	26	0.00e+00
Fe60	60	26	1.94e-07
Co59	59	27	1.49e-06
Co60	60	27	3.93e-13
Ni58	58	28	1.62e-05
Ni59	59	28	5.02e-09
Ni60	60	28	6.65e-06
Ni61	61	28	3.71e-07
Ni62	62	28	1.10e-06
Ni63	63	28	2.84e-11
Ni64	64	28	3.58e-07
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	2.84e-07
Cu64	64	29	0.00e+00
Cu65	65	29	1.17e-07
Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	3.38e-07
Zn65	65	30	0.00e+00
Zn66	66	30	2.21e-07
Zn67	67	30	3.46e-08
Zn68	68	30	1.67e-07
Zn69	69	30	0.00e+00
Zn70	70	30	5.06e-09

Ga69	69	31	1.71e-08
Ga70	70	31	0.00e+00
Ga71	71	31	1.18e-08
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	2.16e-08
Ge71	71	32	0.00e+00
Ge72	72	32	2.72e-08
Ge73	73	32	7.84e-09
Ge74	74	32	4.02e-08
Ge75	75	32	0.00e+00
Ge76	76	32	6.39e-09
Ge77	77	32	0.00e+00
As75	75	33	5.19e-09
As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	7.04e-09
Se77	77	34	4.57e-09
Se78	78	34	1.85e-08
Se79	79	34	1.17e-09
Se80	80	34	3.28e-08
Se81	81	34	0.00e+00
Se82	82	34	4.28e-09
Br79	79	35	4.41e-09
Br80	80	35	0.00e+00
Br81	81	35	5.62e-09
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	1.00e-09
Kr81	81	36	2.71e-11
Kr82	82	36	8.72e-09
Kr83	83	36	6.09e-09
Kr84	84	36	3.43e-08
Kr85	85	36	0.00e+00
Kr86	86	36	2.10e-08
Kr87	87	36	0.00e+00
Kr88	88	36	0.00e+00
Rb85	85	37	7.47e-09
Rb86	86	37	0.00e+00
Rb87	87	37	8.17e-09

Rb88	88	37	0.00e+00
Sr86	86	38	3.97e-09
Sr87	87	38	2.56e-09
Sr88	88	38	6.94e-08
Sr89	89	38	0.00e+00
Sr90	90	38	0.00e+00
Sr91	91	38	0.00e+00
Sr92	92	38	0.00e+00
Y89	89	39	1.94e-08
Y90	90	39	0.00e+00
Y91	91	39	0.00e+00
Y92	92	39	0.00e+00
Y93	93	39	0.00e+00
Zr90	90	40	1.87e-08
Zr91	91	40	5.52e-09
Zr92	92	40	9.17e-09
Zr93	93	40	2.85e-09
Zr94	94	40	1.16e-08
Zr95	95	40	0.00e+00
Zr96	96	40	5.07e-09
Zr97	97	40	0.00e+00
Nb93	93	41	7.55e-10
Nb94	94	41	0.00e+00
Nb95	95	41	0.00e+00
Nb96	96	41	0.00e+00
Nb97	97	41	0.00e+00
Mo92	92	42	3.29e-10
Mo93	93	42	0.00e+00
Mo94	94	42	2.11e-10
Mo95	95	42	1.75e-09
Mo96	96	42	2.52e-09
Mo97	97	42	1.09e-09
Mo98	98	42	3.22e-09
Mo99	99	42	0.00e+00
Mo00	100	42	5.25e-10
Tc97	97	43	0.00e+00
Tc98	98	43	0.00e+00
Tc99	99	43	2.52e-10
Ru96	96	44	8.29e-11
Ru97	97	44	0.00e+00
Ru98	98	44	2.85e-11

Ru99	99	44	3.05e-10		Sn24	124	50	5.77e-10
Ru00	100	44	1.35e-09		Sb21	121	51	8.06e-10
Ru01	101	44	5.43e-10		Sb22	122	51	0.00e+00
Ru02	102	44	2.16e-09		Sb23	123	51	4.67e-10
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	5.43e-10		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	1.01e-09
Ru06	106	44	0.00e+00		Te23	123	52	3.42e-10
Rh03	103	45	6.21e-10		Te24	124	52	2.26e-09
Rh05	105	45	0.00e+00		Te25	125	52	1.04e-09
Pd04	104	46	9.51e-10		Te26	126	52	4.44e-09
Pd05	105	46	5.31e-10		Te27	127	52	0.00e+00
Pd06	106	46	1.44e-09		Te28	128	52	2.29e-09
Pd07	107	46	2.08e-10		Te30	130	52	1.81e-09
Pd08	108	46	1.69e-09		I127	127	53	1.55e-09
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	4.09e-10		I129	129	53	1.79e-11
Ag07	107	47	2.35e-10		I130	130	53	0.00e+00
Ag09	109	47	6.11e-10		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	1.32e-11		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	1.17e-09
Cd10	110	48	1.21e-09		Xe29	129	54	2.08e-09
Cd11	111	48	5.80e-10		Xe30	130	54	2.42e-09
Cd12	112	48	1.83e-09		Xe31	131	54	1.93e-09
Cd13	113	48	6.14e-10		Xe32	132	54	5.94e-09
Cd14	114	48	2.56e-09		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	2.95e-09
Cd16	116	48	8.45e-10		Xe35	135	54	0.00e+00
In13	113	49	7.55e-12		Xe36	136	54	7.03e-10
In15	115	49	6.02e-10		Cs33	133	55	1.04e-09
Sn14	114	50	2.39e-11		Cs34	134	55	0.00e+00
Sn15	115	50	1.24e-11		Cs35	135	55	7.03e-10
Sn16	116	50	3.10e-09		Cs36	136	55	0.00e+00
Sn17	117	50	1.20e-09		Cs37	137	55	1.06e-13
Sn18	118	50	5.46e-09		Ba34	134	56	1.38e-09
Sn19	119	50	1.71e-09		Ba35	135	56	7.44e-10
Sn20	120	50	9.05e-09		Ba36	136	56	4.58e-09
Sn21	121	50	0.00e+00		Ba37	137	56	6.64e-09
Sn22	122	50	2.73e-09		Ba38	138	56	6.96e-08
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00

Ba40	140	56	0.00e+00
La39	139	57	8.66e-09
La40	140	57	0.00e+00
Ce40	140	58	2.45e-08
Ce41	141	58	0.00e+00
Ce42	142	58	3.80e-09
Ce43	143	58	0.00e+00
Ce44	144	58	0.00e+00
Pr41	141	59	3.00e-09
Pr42	142	59	0.00e+00
Pr43	143	59	0.00e+00
Pr45	145	59	0.00e+00
Nd42	142	60	5.23e-09
Nd43	143	60	1.33e-09
Nd44	144	60	4.40e-09
Nd45	145	60	8.58e-10
Nd46	146	60	3.76e-09
Nd47	147	60	0.00e+00
Nd48	148	60	8.14e-10
Nd49	149	60	0.00e+00
Nd50	150	60	1.05e-10
Pm45	145	61	0.00e+00
Pm46	146	61	0.00e+00
Pm47	147	61	0.00e+00
Pm48	148	61	0.00e+00
Pm49	149	61	0.00e+00
Pm50	150	61	0.00e+00
Pm51	151	61	0.00e+00
Sm44	144	62	9.74e-12
Sm45	145	62	0.00e+00
Sm46	146	62	0.00e+00
Sm47	147	62	4.70e-10
Sm48	148	62	8.81e-10
Sm49	149	62	2.31e-10
Sm50	150	62	7.99e-10
Sm51	151	62	0.00e+00
Sm52	152	62	7.70e-10
Sm53	153	62	0.00e+00
Sm54	154	62	4.31e-10
Eu51	151	63	1.72e-10
Eu52	152	63	0.00e+00

Eu53	153	63	2.02e-10
Eu54	154	63	0.00e+00
Eu55	155	63	0.00e+00
Eu56	156	63	0.00e+00
Eu57	157	63	0.00e+00
Gd52	152	64	1.08e-11
Gd53	153	64	0.00e+00
Gd54	154	64	1.88e-10
Gd55	155	64	2.55e-10
Gd56	156	64	6.73e-10
Gd57	157	64	3.43e-10
Gd58	158	64	1.14e-09
Gd59	159	64	0.00e+00
Gd60	160	64	3.94e-10
Tb59	159	65	3.25e-10
Tb60	160	65	0.00e+00
Tb61	161	65	0.00e+00
Dy60	160	66	3.56e-10
Dy61	161	66	2.94e-10
Dy62	162	66	9.28e-10
Dy63	163	66	3.76e-10
Dy64	164	66	1.32e-09
Dy65	165	66	0.00e+00
Dy66	166	66	0.00e+00
Ho63	163	67	4.19e-12
Ho64	164	67	0.00e+00
Ho65	165	67	4.57e-10
Ho66	166	67	0.00e+00
Er64	164	68	1.61e-10
Er65	165	68	0.00e+00
Er66	166	68	6.20e-10
Er67	167	68	3.20e-10
Er68	168	68	1.02e-09
Er69	169	68	0.00e+00
Er70	170	68	5.53e-10
Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	2.44e-10
Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00

Tm73	173	69	0.00e+00		Os86	186	76	5.11e-10
Yb70	170	70	2.84e-10		Os87	187	76	1.57e-10
Yb71	171	70	4.76e-10		Os88	188	76	1.44e-09
Yb72	172	70	1.10e-09		Os89	189	76	4.60e-10
Yb73	173	70	5.40e-10		Os90	190	76	1.75e-09
Yb74	174	70	2.33e-09		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	1.42e-09
Yb76	176	70	6.50e-10		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	3.61e-10		Ir91	191	77	6.78e-10
Lu76	176	71	5.50e-11		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	1.06e-09
Hf76	176	72	4.08e-10		Ir94	194	77	0.00e+00
Hf77	177	72	3.26e-10		Ir95	195	77	0.00e+00
Hf78	178	72	1.29e-09		Pt92	192	78	4.02e-10
Hf79	179	72	4.62e-10		Pt93	193	78	0.00e+00
Hf80	180	72	2.35e-09		Pt94	194	78	2.60e-09
Hf81	181	72	0.00e+00		Pt95	195	78	1.45e-09
Hf82	182	72	2.42e-10		Pt96	196	78	2.77e-09
Hf83	183	72	0.00e+00		Pt97	197	78	0.00e+00
Hf84	184	72	0.00e+00		Pt98	198	78	5.26e-10
Ta79	179	73	0.00e+00		Au97	197	79	9.70e-10
Ta80	180	73	1.88e-13		Au98	198	79	0.00e+00
Ta81	181	73	5.14e-10		Au99	199	79	0.00e+00
Ta82	182	73	0.00e+00		Hg98	198	80	1.84e-09
Ta83	183	73	0.00e+00		Hg99	199	80	1.02e-09
Ta84	184	73	0.00e+00		Hg00	200	80	3.09e-09
W180	180	74	2.38e-13		Hg01	201	80	1.36e-09
W181	181	74	0.00e+00		Hg02	202	80	5.40e-09
W182	182	74	8.79e-10		Hg03	203	80	0.00e+00
W183	183	74	6.27e-10		Hg04	204	80	4.84e-10
W184	184	74	1.57e-09		Tl03	203	81	2.60e-09
W185	185	74	0.00e+00		Tl04	204	81	0.00e+00
W186	186	74	8.30e-10		Tl05	205	81	4.94e-09
W187	187	74	0.00e+00		Pb04	204	82	2.91e-09
W188	188	74	0.00e+00		Pb05	205	82	1.27e-10
Re85	185	75	3.33e-10		Pb06	206	82	3.70e-08
Re86	186	75	0.00e+00		Pb07	207	82	4.95e-08
Re87	187	75	2.54e-10		Pb08	208	82	7.66e-07
Re88	188	75	0.00e+00		Pb09	209	82	0.00e+00
Re89	189	75	0.00e+00		Pb10	210	82	0.00e+00

Isotope	A	Z	YIELD [$M_\odot$]
Bi09	209	83	1.29e-08
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 3.00; Z = 0.003000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	1.62e+00
He4	4	2	6.14e-01
C12	12	6	6.77e-03
C13	13	6	3.10e-05
C14	14	6	4.76e-10
N14	14	7	1.03e-03
N15	15	7	5.41e-07
O16	16	8	2.97e-03
O17	17	8	2.24e-05
O18	18	8	4.13e-06
F18	18	9	0.00e+00
F19	19	9	1.01e-06
Ne20	20	10	5.20e-04
Ne21	21	10	1.55e-06
Ne22	22	10	3.13e-04
Na22	22	11	0.00e+00
Na23	23	11	2.74e-05
Na24	24	11	0.00e+00
Mg24	24	12	2.60e-04
Mg25	25	12	4.04e-05
Mg26	26	12	4.55e-05
Al26	26	13	7.72e-08
Al27	27	13	3.48e-05
Si28	28	14	3.41e-04
Si29	29	14	1.80e-05
Si30	30	14	1.25e-05
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	3.33e-06
P32	32	15	0.00e+00

Isotope	A	Z	YIELD [$M_\odot$]
P33	33	15	0.00e+00
S32	32	16	1.78e-04
S33	33	16	1.48e-06
S34	34	16	8.54e-06
S35	35	16	0.00e+00
S36	36	16	4.44e-08
Cl35	35	17	1.82e-06
Cl36	36	17	8.30e-10
Cl37	37	17	6.43e-07
Ar36	36	18	4.08e-05
Ar37	37	18	0.00e+00
Ar38	38	18	7.90e-06
Ar39	39	18	1.49e-11
Ar40	40	18	2.09e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	1.70e-06
K40	40	19	4.02e-09
K41	41	19	1.36e-07
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	3.06e-05
Ca41	41	20	1.76e-09
Ca42	42	20	2.22e-07
Ca43	43	20	4.75e-08
Ca44	44	20	7.30e-07
Ca45	45	20	0.00e+00
Ca46	46	20	2.16e-09
Ca47	47	20	0.00e+00
Ca48	48	20	7.10e-08
Sc45	45	21	2.18e-08
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	1.20e-07
Ti47	47	22	1.10e-07
Ti48	48	22	1.11e-06
Ti49	49	22	8.95e-08
Ti50	50	22	1.02e-07
V50	50	23	4.69e-10

V51	51	23	1.93e-07		Ga72	72	31	0.00e+00
Cr50	50	24	3.73e-07		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	2.74e-08
Cr52	52	24	7.53e-06		Ge71	71	32	0.00e+00
Cr53	53	24	8.71e-07		Ge72	72	32	3.59e-08
Cr54	54	24	2.44e-07		Ge73	73	32	1.02e-08
Mn55	55	25	6.60e-06		Ge74	74	32	5.07e-08
Mn56	56	25	0.00e+00		Ge75	75	32	0.00e+00
Fe54	54	26	3.58e-05		Ge76	76	32	9.04e-09
Fe55	55	26	7.19e-13		Ge77	77	32	0.00e+00
Fe56	56	26	5.86e-04		As75	75	33	6.81e-09
Fe57	57	26	1.45e-05		As76	76	33	0.00e+00
Fe58	58	26	2.94e-06		As77	77	33	0.00e+00
Fe59	59	26	0.00e+00		Se76	76	34	8.32e-09
Fe60	60	26	6.22e-08		Se77	77	34	5.96e-09
Co59	59	27	1.98e-06		Se78	78	34	2.18e-08
Co60	60	27	1.26e-13		Se79	79	34	7.97e-10
Ni58	58	28	2.46e-05		Se80	80	34	4.18e-08
Ni59	59	28	1.27e-08		Se81	81	34	0.00e+00
Ni60	60	28	9.98e-06		Se82	82	34	6.04e-09
Ni61	61	28	5.00e-07		Br79	79	35	6.30e-09
Ni62	62	28	1.52e-06		Br80	80	35	0.00e+00
Ni63	63	28	1.29e-11		Br81	81	35	7.14e-09
Ni64	64	28	4.21e-07		Br82	82	35	0.00e+00
Ni65	65	28	0.00e+00		Br83	83	35	0.00e+00
Ni66	66	28	0.00e+00		Br84	84	35	0.00e+00
Cu63	63	29	3.46e-07		Kr80	80	36	1.47e-09
Cu64	64	29	0.00e+00		Kr81	81	36	3.53e-11
Cu65	65	29	1.53e-07		Kr82	82	36	1.02e-08
Cu66	66	29	0.00e+00		Kr83	83	36	8.13e-09
Cu67	67	29	0.00e+00		Kr84	84	36	4.33e-08
Zn64	64	30	5.14e-07		Kr85	85	36	0.00e+00
Zn65	65	30	0.00e+00		Kr86	86	36	2.09e-08
Zn66	66	30	3.16e-07		Kr87	87	36	0.00e+00
Zn67	67	30	4.83e-08		Kr88	88	36	0.00e+00
Zn68	68	30	2.27e-07		Rb85	85	37	7.87e-09
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	7.23e-09		Rb87	87	37	6.03e-09
Ga69	69	31	2.23e-08		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	5.01e-09
Ga71	71	31	1.55e-08		Sr87	87	38	3.60e-09

Sr88	88	38	8.13e-08
Sr89	89	38	0.00e+00
Sr90	90	38	0.00e+00
Sr91	91	38	0.00e+00
Sr92	92	38	0.00e+00
Y89	89	39	2.12e-08
Y90	90	39	0.00e+00
Y91	91	39	0.00e+00
Y92	92	39	0.00e+00
Y93	93	39	0.00e+00
Zr90	90	40	2.30e-08
Zr91	91	40	6.41e-09
Zr92	92	40	1.03e-08
Zr93	93	40	2.90e-09
Zr94	94	40	1.32e-08
Zr95	95	40	0.00e+00
Zr96	96	40	3.12e-09
Zr97	97	40	0.00e+00
Nb93	93	41	1.09e-09
Nb94	94	41	0.00e+00
Nb95	95	41	0.00e+00
Nb96	96	41	0.00e+00
Nb97	97	41	0.00e+00
Mo92	92	42	5.00e-10
Mo93	93	42	0.00e+00
Mo94	94	42	3.25e-10
Mo95	95	42	1.98e-09
Mo96	96	42	2.89e-09
Mo97	97	42	1.17e-09
Mo98	98	42	3.58e-09
Mo99	99	42	0.00e+00
Mo00	100	42	5.90e-10
Tc97	97	43	0.00e+00
Tc98	98	43	0.00e+00
Tc99	99	43	2.40e-10
Ru96	96	44	1.26e-10
Ru97	97	44	0.00e+00
Ru98	98	44	4.33e-11
Ru99	99	44	4.28e-10
Ru00	100	44	1.57e-09
Ru01	101	44	7.05e-10

Ru02	102	44	2.66e-09
Ru03	103	44	0.00e+00
Ru04	104	44	6.81e-10
Ru05	105	44	0.00e+00
Ru06	106	44	0.00e+00
Rh03	103	45	8.29e-10
Rh05	105	45	0.00e+00
Pd04	104	46	1.19e-09
Pd05	105	46	7.23e-10
Pd06	106	46	1.82e-09
Pd07	107	46	2.46e-10
Pd08	108	46	2.15e-09
Pd09	109	46	0.00e+00
Pd10	110	46	4.77e-10
Ag07	107	47	3.56e-10
Ag09	109	47	8.06e-10
Ag11	111	47	0.00e+00
Cd08	108	48	2.03e-11
Cd09	109	48	0.00e+00
Cd10	110	48	1.56e-09
Cd11	111	48	7.60e-10
Cd12	112	48	2.35e-09
Cd13	113	48	8.06e-10
Cd14	114	48	3.32e-09
Cd15	115	48	0.00e+00
Cd16	116	48	8.10e-10
In13	113	49	1.15e-11
In15	115	49	7.95e-10
Sn14	114	50	3.63e-11
Sn15	115	50	1.89e-11
Sn16	116	50	4.25e-09
Sn17	117	50	1.59e-09
Sn18	118	50	7.09e-09
Sn19	119	50	2.24e-09
Sn20	120	50	1.17e-08
Sn21	121	50	0.00e+00
Sn22	122	50	1.84e-09
Sn23	123	50	0.00e+00
Sn24	124	50	4.31e-10
Sb21	121	51	1.06e-09
Sb22	122	51	0.00e+00

Sb23	123	51	4.79e-10
Sb24	124	51	0.00e+00
Sb25	125	51	0.00e+00
Te22	122	52	1.33e-09
Te23	123	52	4.54e-10
Te24	124	52	2.74e-09
Te25	125	52	1.34e-09
Te26	126	52	5.83e-09
Te27	127	52	0.00e+00
Te28	128	52	3.18e-09
Te30	130	52	2.75e-09
I127	127	53	2.23e-09
I128	128	53	0.00e+00
I129	129	53	1.80e-11
I130	130	53	0.00e+00
I131	131	53	0.00e+00
I132	132	53	0.00e+00
I133	133	53	0.00e+00
Xe28	128	54	1.56e-09
Xe29	129	54	3.06e-09
Xe30	130	54	3.34e-09
Xe31	131	54	2.84e-09
Xe32	132	54	8.66e-09
Xe33	133	54	0.00e+00
Xe34	134	54	2.47e-09
Xe35	135	54	0.00e+00
Xe36	136	54	7.92e-10
Cs33	133	55	1.52e-09
Cs34	134	55	0.00e+00
Cs35	135	55	7.42e-10
Cs36	136	55	0.00e+00
Cs37	137	55	0.00e+00
Ba34	134	56	2.10e-09
Ba35	135	56	1.15e-09
Ba36	136	56	6.85e-09
Ba37	137	56	7.47e-09
Ba38	138	56	1.05e-07
Ba39	139	56	0.00e+00
Ba40	140	56	0.00e+00
La39	139	57	1.30e-08
La40	140	57	0.00e+00

Ce40	140	58	4.19e-08
Ce41	141	58	0.00e+00
Ce42	142	58	3.33e-09
Ce43	143	58	0.00e+00
Ce44	144	58	0.00e+00
Pr41	141	59	4.76e-09
Pr42	142	59	0.00e+00
Pr43	143	59	0.00e+00
Pr45	145	59	0.00e+00
Nd42	142	60	9.95e-09
Nd43	143	60	1.98e-09
Nd44	144	60	6.28e-09
Nd45	145	60	1.23e-09
Nd46	146	60	5.65e-09
Nd47	147	60	0.00e+00
Nd48	148	60	1.09e-09
Nd49	149	60	0.00e+00
Nd50	150	60	1.45e-10
Pm45	145	61	0.00e+00
Pm46	146	61	0.00e+00
Pm47	147	61	0.00e+00
Pm48	148	61	0.00e+00
Pm49	149	61	0.00e+00
Pm50	150	61	0.00e+00
Pm51	151	61	0.00e+00
Sm44	144	62	1.48e-11
Sm45	145	62	0.00e+00
Sm46	146	62	0.00e+00
Sm47	147	62	7.04e-10
Sm48	148	62	1.42e-09
Sm49	149	62	3.44e-10
Sm50	150	62	1.21e-09
Sm51	151	62	0.00e+00
Sm52	152	62	1.15e-09
Sm53	153	62	0.00e+00
Sm54	154	62	5.84e-10
Eu51	151	63	2.59e-10
Eu52	152	63	0.00e+00
Eu53	153	63	3.03e-10
Eu54	154	63	0.00e+00
Eu55	155	63	0.00e+00

Eu56	156	63	0.00e+00
Eu57	157	63	0.00e+00
Gd52	152	64	1.76e-11
Gd53	153	64	0.00e+00
Gd54	154	64	2.91e-10
Gd55	155	64	3.73e-10
Gd56	156	64	9.97e-10
Gd57	157	64	5.09e-10
Gd58	158	64	1.69e-09
Gd59	159	64	0.00e+00
Gd60	160	64	5.17e-10
Tb59	159	65	4.80e-10
Tb60	160	65	0.00e+00
Tb61	161	65	0.00e+00
Dy60	160	66	5.31e-10
Dy61	161	66	4.30e-10
Dy62	162	66	1.35e-09
Dy63	163	66	5.52e-10
Dy64	164	66	1.96e-09
Dy65	165	66	0.00e+00
Dy66	166	66	0.00e+00
Ho63	163	67	5.09e-12
Ho64	164	67	0.00e+00
Ho65	165	67	6.76e-10
Ho66	166	67	0.00e+00
Er64	164	68	2.34e-10
Er65	165	68	0.00e+00
Er66	166	68	9.29e-10
Er67	167	68	4.73e-10
Er68	168	68	1.52e-09
Er69	169	68	0.00e+00
Er70	170	68	7.43e-10
Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	3.58e-10
Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00
Tm73	173	69	0.00e+00
Yb70	170	70	4.39e-10
Yb71	171	70	7.01e-10

Yb72	172	70	1.68e-09
Yb73	173	70	8.18e-10
Yb74	174	70	3.59e-09
Yb75	175	70	0.00e+00
Yb76	176	70	8.42e-10
Yb77	177	70	0.00e+00
Lu75	175	71	5.56e-10
Lu76	176	71	8.64e-11
Lu77	177	71	0.00e+00
Hf76	176	72	6.14e-10
Hf77	177	72	4.91e-10
Hf78	178	72	2.00e-09
Hf79	179	72	7.05e-10
Hf80	180	72	3.65e-09
Hf81	181	72	0.00e+00
Hf82	182	72	4.81e-10
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	2.79e-13
Ta81	181	73	7.81e-10
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	3.61e-13
W181	181	74	0.00e+00
W182	182	74	1.41e-09
W183	183	74	9.89e-10
W184	184	74	2.52e-09
W185	185	74	0.00e+00
W186	186	74	1.25e-09
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	5.23e-10
Re86	186	75	0.00e+00
Re87	187	75	3.80e-10
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	8.67e-10
Os87	187	76	2.67e-10
Os88	188	76	2.26e-09

Isotope	A	Z	YIELD
Os89	189	76	7.09e-10
Os90	190	76	2.69e-09
Os91	191	76	0.00e+00
Os92	192	76	2.01e-09
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	1.04e-09
Ir92	192	77	0.00e+00
Ir93	193	77	1.59e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	6.56e-10
Pt93	193	78	0.00e+00
Pt94	194	78	3.79e-09
Pt95	195	78	2.16e-09
Pt96	196	78	4.18e-09
Pt97	197	78	0.00e+00
Pt98	198	78	6.86e-10
Au97	197	79	1.47e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	2.96e-09
Hg99	199	80	1.60e-09
Hg00	200	80	5.18e-09
Hg01	201	80	2.31e-09
Hg02	202	80	9.69e-09
Hg03	203	80	0.00e+00
Hg04	204	80	5.23e-10
Tl03	203	81	4.64e-09
Tl04	204	81	0.00e+00
Tl05	205	81	9.39e-09
Pb04	204	82	5.49e-09
Pb05	205	82	2.18e-10
Pb06	206	82	6.19e-08
Pb07	207	82	8.59e-08
Pb08	208	82	5.50e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	7.11e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 3.00; Z = 0.006000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	1.63e+00
He4	4	2	6.46e-01
C12	12	6	9.52e-03
C13	13	6	6.25e-05
C14	14	6	5.30e-10
N14	14	7	2.14e-03
N15	15	7	1.19e-06
O16	16	8	5.81e-03
O17	17	8	2.95e-05
O18	18	8	8.74e-06
F18	18	9	0.00e+00
F19	19	9	1.17e-06
Ne20	20	10	1.07e-03
Ne21	21	10	3.20e-06
Ne22	22	10	5.34e-04
Na22	22	11	0.00e+00
Na23	23	11	5.32e-05
Na24	24	11	0.00e+00
Mg24	24	12	5.39e-04
Mg25	25	12	7.71e-05
Mg26	26	12	9.09e-05
Al26	26	13	1.52e-07
Al27	27	13	6.33e-05
Si28	28	14	6.95e-04
Si29	29	14	3.67e-05
Si30	30	14	2.53e-05
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	6.69e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	3.65e-04
S33	33	16	3.04e-06
S34	34	16	1.74e-05

S35	35	16	0.00e+00		Cr53	53	24	1.78e-06
S36	36	16	8.50e-08		Cr54	54	24	4.89e-07
Cl35	35	17	3.73e-06		Mn55	55	25	1.36e-05
Cl36	36	17	1.83e-09		Mn56	56	25	0.00e+00
Cl37	37	17	1.34e-06		Fe54	54	26	7.34e-05
Ar36	36	18	8.35e-05		Fe55	55	26	3.37e-12
Ar37	37	18	0.00e+00		Fe56	56	26	1.20e-03
Ar38	38	18	1.62e-05		Fe57	57	26	3.00e-05
Ar39	39	18	2.31e-11		Fe58	58	26	5.32e-06
Ar40	40	18	3.94e-08		Fe59	59	26	0.00e+00
Ar41	41	18	0.00e+00		Fe60	60	26	2.15e-08
Ar42	42	18	0.00e+00		Co59	59	27	3.83e-06
K39	39	19	3.48e-06		Co60	60	27	0.00e+00
K40	40	19	9.61e-09		Ni58	58	28	5.04e-05
K41	41	19	2.83e-07		Ni59	59	28	3.77e-08
K42	42	19	0.00e+00		Ni60	60	28	2.03e-05
K43	43	19	0.00e+00		Ni61	61	28	9.91e-07
Ca40	40	20	6.27e-05		Ni62	62	28	2.99e-06
Ca41	41	20	4.48e-09		Ni63	63	28	1.43e-11
Ca42	42	20	4.53e-07		Ni64	64	28	8.26e-07
Ca43	43	20	9.65e-08		Ni65	65	28	0.00e+00
Ca44	44	20	1.49e-06		Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00		Cu63	63	29	6.62e-07
Ca46	46	20	3.51e-09		Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00		Cu65	65	29	3.05e-07
Ca48	48	20	1.45e-07		Cu66	66	29	0.00e+00
Sc45	45	21	4.43e-08		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	1.05e-06
Sc47	47	21	0.00e+00		Zn65	65	30	0.00e+00
Sc48	48	21	0.00e+00		Zn66	66	30	6.48e-07
Sc49	49	21	0.00e+00		Zn67	67	30	9.89e-08
Ti46	46	22	2.47e-07		Zn68	68	30	4.63e-07
Ti47	47	22	2.25e-07		Zn69	69	30	0.00e+00
Ti48	48	22	2.27e-06		Zn70	70	30	1.47e-08
Ti49	49	22	1.86e-07		Ga69	69	31	4.56e-08
Ti50	50	22	2.01e-07		Ga70	70	31	0.00e+00
V50	50	23	9.59e-10		Ga71	71	31	3.26e-08
V51	51	23	3.96e-07		Ga72	72	31	0.00e+00
Cr50	50	24	7.62e-07		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	5.69e-08
Cr52	52	24	1.54e-05		Ge71	71	32	0.00e+00

Ge72	72	32	7.51e-08		Sr92	92	38	0.00e+00
Ge73	73	32	2.14e-08		Y89	89	39	6.08e-08
Ge74	74	32	1.01e-07		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	1.83e-08		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	1.35e-08		Zr90	90	40	6.78e-08
As76	76	33	0.00e+00		Zr91	91	40	1.96e-08
As77	77	33	0.00e+00		Zr92	92	40	3.15e-08
Se76	76	34	1.80e-08		Zr93	93	40	8.12e-09
Se77	77	34	1.26e-08		Zr94	94	40	4.20e-08
Se78	78	34	4.11e-08		Zr95	95	40	0.00e+00
Se79	79	34	1.94e-09		Zr96	96	40	4.76e-09
Se80	80	34	8.87e-08		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	2.69e-09
Se82	82	34	1.23e-08		Nb94	94	41	0.00e+00
Br79	79	35	1.32e-08		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	1.46e-08		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	1.02e-09
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	7.16e-10
Kr80	80	36	3.25e-09		Mo95	95	42	5.49e-09
Kr81	81	36	1.20e-10		Mo96	96	42	8.42e-09
Kr82	82	36	2.40e-08		Mo97	97	42	3.14e-09
Kr83	83	36	1.76e-08		Mo98	98	42	1.09e-08
Kr84	84	36	9.45e-08		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	1.37e-09
Kr86	86	36	3.68e-08		Tc97	97	43	1.05e-13
Kr87	87	36	0.00e+00		Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00		Tc99	99	43	6.46e-10
Rb85	85	37	1.63e-08		Ru96	96	44	2.56e-10
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	9.78e-09		Ru98	98	44	8.87e-11
Rb88	88	37	0.00e+00		Ru99	99	44	1.24e-09
Sr86	86	38	1.39e-08		Ru00	100	44	5.24e-09
Sr87	87	38	1.03e-08		Ru01	101	44	1.90e-09
Sr88	88	38	2.51e-07		Ru02	102	44	7.12e-09
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	1.62e-09
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00

Ru06	106	44	0.00e+00		Te23	123	52	1.45e-09
Rh03	103	45	2.18e-09		Te24	124	52	8.69e-09
Rh05	105	45	0.00e+00		Te25	125	52	3.79e-09
Pd04	104	46	4.00e-09		Te26	126	52	1.89e-08
Pd05	105	46	1.91e-09		Te27	127	52	0.00e+00
Pd06	106	46	5.70e-09		Te28	128	52	7.28e-09
Pd07	107	46	8.78e-10		Te30	130	52	5.63e-09
Pd08	108	46	6.92e-09		I127	127	53	5.52e-09
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	1.24e-09		I129	129	53	5.11e-11
Ag07	107	47	7.40e-10		I130	130	53	0.00e+00
Ag09	109	47	2.16e-09		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	4.50e-11		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	5.44e-09
Cd10	110	48	5.29e-09		Xe29	129	54	7.16e-09
Cd11	111	48	2.30e-09		Xe30	130	54	1.18e-08
Cd12	112	48	7.70e-09		Xe31	131	54	7.25e-09
Cd13	113	48	2.50e-09		Xe32	132	54	2.80e-08
Cd14	114	48	1.11e-08		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	4.28e-09
Cd16	116	48	1.90e-09		Xe35	135	54	0.00e+00
In13	113	49	2.33e-11		Xe36	136	54	1.56e-09
In15	115	49	2.51e-09		Cs33	133	55	4.58e-09
Sn14	114	50	7.41e-11		Cs34	134	55	0.00e+00
Sn15	115	50	3.85e-11		Cs35	135	55	2.26e-09
Sn16	116	50	1.46e-08		Cs36	136	55	0.00e+00
Sn17	117	50	5.03e-09		Cs37	137	55	0.00e+00
Sn18	118	50	2.28e-08		Ba34	134	56	7.54e-09
Sn19	119	50	6.93e-09		Ba35	135	56	3.47e-09
Sn20	120	50	3.76e-08		Ba36	136	56	2.46e-08
Sn21	121	50	0.00e+00		Ba37	137	56	2.28e-08
Sn22	122	50	2.92e-09		Ba38	138	56	2.92e-07
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00
Sn24	124	50	7.54e-10		Ba40	140	56	0.00e+00
Sb21	121	51	3.21e-09		La39	139	57	3.66e-08
Sb22	122	51	0.00e+00		La40	140	57	0.00e+00
Sb23	123	51	1.12e-09		Ce40	140	58	1.07e-07
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	3.84e-09
Te22	122	52	4.28e-09		Ce43	143	58	0.00e+00

Ce44	144	58	0.00e+00
Pr41	141	59	1.12e-08
Pr42	142	59	0.00e+00
Pr43	143	59	0.00e+00
Pr45	145	59	0.00e+00
Nd42	142	60	2.52e-08
Nd43	143	60	4.37e-09
Nd44	144	60	1.33e-08
Nd45	145	60	2.62e-09
Nd46	146	60	1.20e-08
Nd47	147	60	0.00e+00
Nd48	148	60	2.04e-09
Nd49	149	60	0.00e+00
Nd50	150	60	2.69e-10
Pm45	145	61	0.00e+00
Pm46	146	61	0.00e+00
Pm47	147	61	0.00e+00
Pm48	148	61	0.00e+00
Pm49	149	61	0.00e+00
Pm50	150	61	0.00e+00
Pm51	151	61	0.00e+00
Sm44	144	62	3.02e-11
Sm45	145	62	0.00e+00
Sm46	146	62	0.00e+00
Sm47	147	62	1.50e-09
Sm48	148	62	3.05e-09
Sm49	149	62	7.03e-10
Sm50	150	62	2.47e-09
Sm51	151	62	0.00e+00
Sm52	152	62	2.29e-09
Sm53	153	62	0.00e+00
Sm54	154	62	1.08e-09
Eu51	151	63	5.24e-10
Eu52	152	63	0.00e+00
Eu53	153	63	5.78e-10
Eu54	154	63	0.00e+00
Eu55	155	63	0.00e+00
Eu56	156	63	0.00e+00
Eu57	157	63	0.00e+00
Gd52	152	64	3.39e-11
Gd53	153	64	0.00e+00

Gd54	154	64	6.13e-10
Gd55	155	64	7.19e-10
Gd56	156	64	1.91e-09
Gd57	157	64	9.74e-10
Gd58	158	64	3.30e-09
Gd59	159	64	0.00e+00
Gd60	160	64	9.22e-10
Tb59	159	65	9.18e-10
Tb60	160	65	0.00e+00
Tb61	161	65	0.00e+00
Dy60	160	66	9.90e-10
Dy61	161	66	8.14e-10
Dy62	162	66	2.53e-09
Dy63	163	66	1.08e-09
Dy64	164	66	3.99e-09
Dy65	165	66	0.00e+00
Dy66	166	66	0.00e+00
Ho63	163	67	4.67e-12
Ho64	164	67	0.00e+00
Ho65	165	67	1.31e-09
Ho66	166	67	0.00e+00
Er64	164	68	4.13e-10
Er65	165	68	0.00e+00
Er66	166	68	1.77e-09
Er67	167	68	9.06e-10
Er68	168	68	3.04e-09
Er69	169	68	0.00e+00
Er70	170	68	1.49e-09
Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	9.04e-10
Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00
Tm73	173	69	0.00e+00
Yb70	170	70	8.98e-10
Yb71	171	70	1.44e-09
Yb72	172	70	3.36e-09
Yb73	173	70	1.63e-09
Yb74	174	70	7.14e-09
Yb75	175	70	0.00e+00

Yb76	176	70	1.43e-09		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	1.11e-09		Ir91	191	77	1.99e-09
Lu76	176	71	1.73e-10		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	3.04e-09
Hf76	176	72	1.22e-09		Ir94	194	77	0.00e+00
Hf77	177	72	9.54e-10		Ir95	195	77	0.00e+00
Hf78	178	72	3.80e-09		Pt92	192	78	1.09e-09
Hf79	179	72	1.33e-09		Pt93	193	78	0.00e+00
Hf80	180	72	6.87e-09		Pt94	194	78	6.64e-09
Hf81	181	72	0.00e+00		Pt95	195	78	4.02e-09
Hf82	182	72	7.71e-10		Pt96	196	78	8.18e-09
Hf83	183	72	0.00e+00		Pt97	197	78	0.00e+00
Hf84	184	72	0.00e+00		Pt98	198	78	1.16e-09
Ta79	179	73	0.00e+00		Au97	197	79	2.83e-09
Ta80	180	73	3.92e-13		Au98	198	79	0.00e+00
Ta81	181	73	1.51e-09		Au99	199	79	0.00e+00
Ta82	182	73	0.00e+00		Hg98	198	80	5.42e-09
Ta83	183	73	0.00e+00		Hg99	199	80	2.95e-09
Ta84	184	73	0.00e+00		Hg00	200	80	9.34e-09
W180	180	74	7.36e-13		Hg01	201	80	4.12e-09
W181	181	74	0.00e+00		Hg02	202	80	1.51e-08
W182	182	74	2.58e-09		Hg03	203	80	0.00e+00
W183	183	74	1.87e-09		Hg04	204	80	5.33e-10
W184	184	74	4.99e-09		Tl03	203	81	7.65e-09
W185	185	74	0.00e+00		Tl04	204	81	0.00e+00
W186	186	74	3.14e-09		Tl05	205	81	1.66e-08
W187	187	74	0.00e+00		Pb04	204	82	9.80e-09
W188	188	74	0.00e+00		Pb05	205	82	6.30e-10
Re85	185	75	1.05e-09		Pb06	206	82	6.29e-08
Re86	186	75	0.00e+00		Pb07	207	82	6.81e-08
Re87	187	75	7.45e-10		Pb08	208	82	1.28e-07
Re88	188	75	0.00e+00		Pb09	209	82	0.00e+00
Re89	189	75	0.00e+00		Pb10	210	82	0.00e+00
Os86	186	76	1.65e-09		Bi09	209	83	2.02e-09
Os87	187	76	5.13e-10		Bi10	210	83	0.00e+00
Os88	188	76	3.13e-09		Po10	210	84	0.00e+00
Os89	189	76	1.29e-09					
Os90	190	76	4.46e-09					
Os91	191	76	0.00e+00					
Os92	192	76	2.36e-09					

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Model Parameters: ($M_\star$ = 3.00; Z = 0.008000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	1.62e+00
He4	4	2	6.71e-01
C12	12	6	1.17e-02
C13	13	6	8.53e-05
C14	14	6	5.98e-10
N14	14	7	2.86e-03
N15	15	7	1.58e-06
O16	16	8	7.75e-03
O17	17	8	3.71e-05
O18	18	8	1.18e-05
F18	18	9	0.00e+00
F19	19	9	1.58e-06
Ne20	20	10	1.43e-03
Ne21	21	10	4.23e-06
Ne22	22	10	8.17e-04
Na22	22	11	0.00e+00
Na23	23	11	7.12e-05
Na24	24	11	0.00e+00
Mg24	24	12	7.28e-04
Mg25	25	12	1.01e-04
Mg26	26	12	1.16e-04
Al26	26	13	2.02e-07
Al27	27	13	8.38e-05
Si28	28	14	9.33e-04
Si29	29	14	4.93e-05
Si30	30	14	3.39e-05
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	9.04e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	4.90e-04
S33	33	16	4.11e-06
S34	34	16	2.34e-05
S35	35	16	0.00e+00
S36	36	16	1.16e-07
Cl35	35	17	5.01e-06
Cl36	36	17	2.57e-09

Isotope	A	Z	YIELD [$M_\odot$]
Cl37	37	17	1.82e-06
Ar36	36	18	1.12e-04
Ar37	37	18	0.00e+00
Ar38	38	18	2.17e-05
Ar39	39	18	1.27e-11
Ar40	40	18	5.50e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	4.68e-06
K40	40	19	1.50e-08
K41	41	19	3.85e-07
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	8.42e-05
Ca41	41	20	5.54e-09
Ca42	42	20	6.11e-07
Ca43	43	20	1.30e-07
Ca44	44	20	2.01e-06
Ca45	45	20	0.00e+00
Ca46	46	20	4.55e-09
Ca47	47	20	0.00e+00
Ca48	48	20	1.95e-07
Sc45	45	21	6.02e-08
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	3.35e-07
Ti47	47	22	3.03e-07
Ti48	48	22	3.05e-06
Ti49	49	22	2.54e-07
Ti50	50	22	2.79e-07
V50	50	23	1.29e-09
V51	51	23	5.32e-07
Cr50	50	24	1.02e-06
Cr51	51	24	0.00e+00
Cr52	52	24	2.07e-05
Cr53	53	24	2.39e-06
Cr54	54	24	6.59e-07
Mn55	55	25	1.83e-05
Mn56	56	25	0.00e+00

Fe54	54	26	9.84e-05		Ge76	76	32	2.46e-08
Fe55	55	26	2.10e-12		Ge77	77	32	0.00e+00
Fe56	56	26	1.61e-03		As75	75	33	2.12e-08
Fe57	57	26	4.06e-05		As76	76	33	0.00e+00
Fe58	58	26	6.96e-06		As77	77	33	0.00e+00
Fe59	59	26	0.00e+00		Se76	76	34	2.91e-08
Fe60	60	26	1.56e-08		Se77	77	34	1.89e-08
Co59	59	27	5.16e-06		Se78	78	34	7.83e-08
Co60	60	27	0.00e+00		Se79	79	34	3.21e-09
Ni58	58	28	6.77e-05		Se80	80	34	1.35e-07
Ni59	59	28	5.23e-08		Se81	81	34	0.00e+00
Ni60	60	28	2.73e-05		Se82	82	34	1.65e-08
Ni61	61	28	1.34e-06		Br79	79	35	1.94e-08
Ni62	62	28	4.03e-06		Br80	80	35	0.00e+00
Ni63	63	28	3.77e-12		Br81	81	35	2.40e-08
Ni64	64	28	1.15e-06		Br82	82	35	0.00e+00
Ni65	65	28	0.00e+00		Br83	83	35	0.00e+00
Ni66	66	28	0.00e+00		Br84	84	35	0.00e+00
Cu63	63	29	8.83e-07		Kr80	80	36	5.45e-09
Cu64	64	29	0.00e+00		Kr81	81	36	3.67e-10
Cu65	65	29	4.39e-07		Kr82	82	36	4.34e-08
Cu66	66	29	0.00e+00		Kr83	83	36	2.79e-08
Cu67	67	29	0.00e+00		Kr84	84	36	1.50e-07
Zn64	64	30	1.42e-06		Kr85	85	36	0.00e+00
Zn65	65	30	0.00e+00		Kr86	86	36	5.27e-08
Zn66	66	30	8.87e-07		Kr87	87	36	0.00e+00
Zn67	67	30	1.37e-07		Kr88	88	36	0.00e+00
Zn68	68	30	6.47e-07		Rb85	85	37	2.58e-08
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	1.97e-08		Rb87	87	37	1.39e-08
Ga69	69	31	6.56e-08		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	3.04e-08
Ga71	71	31	4.93e-08		Sr87	87	38	2.20e-08
Ga72	72	31	0.00e+00		Sr88	88	38	5.31e-07
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	8.51e-08		Sr90	90	38	0.00e+00
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	1.12e-07		Sr92	92	38	0.00e+00
Ge73	73	32	3.19e-08		Y89	89	39	1.22e-07
Ge74	74	32	1.64e-07		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00

Y92	92	39	0.00e+00		Pd05	105	46	3.24e-09
Y93	93	39	0.00e+00		Pd06	106	46	1.08e-08
Zr90	90	40	1.43e-07		Pd07	107	46	1.76e-09
Zr91	91	40	3.71e-08		Pd08	108	46	1.33e-08
Zr92	92	40	5.78e-08		Pd09	109	46	0.00e+00
Zr93	93	40	1.68e-08		Pd10	110	46	1.72e-09
Zr94	94	40	8.18e-08		Ag07	107	47	1.02e-09
Zr95	95	40	0.00e+00		Ag09	109	47	4.40e-09
Zr96	96	40	6.03e-09		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	7.11e-11
Nb93	93	41	5.02e-09		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	1.04e-08
Nb95	95	41	0.00e+00		Cd11	111	48	4.17e-09
Nb96	96	41	0.00e+00		Cd12	112	48	1.44e-08
Nb97	97	41	0.00e+00		Cd13	113	48	4.54e-09
Mo92	92	42	1.37e-09		Cd14	114	48	2.08e-08
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	1.12e-09		Cd16	116	48	2.28e-09
Mo95	95	42	1.09e-08		In13	113	49	3.13e-11
Mo96	96	42	1.76e-08		In15	115	49	4.53e-09
Mo97	97	42	6.38e-09		Sn14	114	50	1.00e-10
Mo98	98	42	2.24e-08		Sn15	115	50	5.19e-11
Mo99	99	42	0.00e+00		Sn16	116	50	2.78e-08
Mo00	100	42	1.89e-09		Sn17	117	50	9.10e-09
Tc97	97	43	2.46e-13		Sn18	118	50	4.10e-08
Tc98	98	43	0.00e+00		Sn19	119	50	1.27e-08
Tc99	99	43	1.18e-09		Sn20	120	50	6.63e-08
Ru96	96	44	3.43e-10		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	2.91e-09
Ru98	98	44	1.19e-10		Sn23	123	50	0.00e+00
Ru99	99	44	2.42e-09		Sn24	124	50	9.76e-10
Ru00	100	44	1.08e-08		Sb21	121	51	5.50e-09
Ru01	101	44	3.34e-09		Sb22	122	51	0.00e+00
Ru02	102	44	1.62e-08		Sb23	123	51	1.50e-09
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	2.28e-09		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	7.72e-09
Ru06	106	44	0.00e+00		Te23	123	52	2.66e-09
Rh03	103	45	3.89e-09		Te24	124	52	1.57e-08
Rh05	105	45	0.00e+00		Te25	125	52	6.48e-09
Pd04	104	46	8.03e-09		Te26	126	52	3.33e-08

Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	1.04e-08		Nd42	142	60	2.82e-08
Te30	130	52	7.56e-09		Nd43	143	60	4.61e-09
I127	127	53	8.46e-09		Nd44	144	60	1.35e-08
I128	128	53	0.00e+00		Nd45	145	60	2.68e-09
I129	129	53	7.51e-11		Nd46	146	60	1.21e-08
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	1.58e-09
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	2.82e-10
Xe28	128	54	9.72e-09		Pm45	145	61	0.00e+00
Xe29	129	54	1.07e-08		Pm46	146	61	0.00e+00
Xe30	130	54	2.10e-08		Pm47	147	61	0.00e+00
Xe31	131	54	1.12e-08		Pm48	148	61	0.00e+00
Xe32	132	54	4.68e-08		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	4.57e-09		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	4.05e-11
Xe36	136	54	2.08e-09		Sm45	145	62	0.00e+00
Cs33	133	55	7.38e-09		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	1.54e-09
Cs35	135	55	3.11e-09		Sm48	148	62	3.26e-09
Cs36	136	55	0.00e+00		Sm49	149	62	7.22e-10
Cs37	137	55	0.00e+00		Sm50	150	62	2.41e-09
Ba34	134	56	1.34e-08		Sm51	151	62	0.00e+00
Ba35	135	56	5.94e-09		Sm52	152	62	2.27e-09
Ba36	136	56	4.23e-08		Sm53	153	62	0.00e+00
Ba37	137	56	3.62e-08		Sm54	154	62	9.29e-10
Ba38	138	56	3.81e-07		Eu51	151	63	5.71e-10
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	6.45e-10
La39	139	57	4.39e-08		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	1.21e-07		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	2.40e-09		Gd52	152	64	3.83e-11
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	5.52e-10
Pr41	141	59	1.17e-08		Gd55	155	64	7.36e-10
Pr42	142	59	0.00e+00		Gd56	156	64	1.87e-09
Pr43	143	59	0.00e+00		Gd57	157	64	9.83e-10

Gd58	158	64	3.16e-09		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	1.19e-09
Gd60	160	64	8.37e-10		Hf77	177	72	9.30e-10
Tb59	159	65	9.74e-10		Hf78	178	72	3.54e-09
Tb60	160	65	0.00e+00		Hf79	179	72	1.25e-09
Tb61	161	65	0.00e+00		Hf80	180	72	6.45e-09
Dy60	160	66	9.78e-10		Hf81	181	72	0.00e+00
Dy61	161	66	8.90e-10		Hf82	182	72	4.21e-10
Dy62	162	66	2.61e-09		Hf83	183	72	0.00e+00
Dy63	163	66	1.22e-09		Hf84	184	72	0.00e+00
Dy64	164	66	4.22e-09		Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00		Ta80	180	73	3.35e-13
Dy66	166	66	0.00e+00		Ta81	181	73	1.41e-09
Ho63	163	67	2.46e-12		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta93	183	73	0.00e+00
Ho65	165	67	1.42e-09		Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00		W180	180	74	9.84e-13
Er64	164	68	3.86e-10		W181	181	74	0.00e+00
Er65	165	68	0.00e+00		W182	182	74	2.69e-09
Er66	166	68	1.88e-09		W183	183	74	1.81e-09
Er67	167	68	9.92e-10		W184	184	74	4.56e-09
Er68	168	68	3.20e-09		W185	185	74	0.00e+00
Er69	169	68	0.00e+00		W186	186	74	1.93e-09
Er70	170	68	1.26e-09		W187	187	74	0.00e+00
Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	9.78e-10
Tm69	169	69	7.78e-10		Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00		Re87	187	75	6.38e-10
Tm71	171	69	0.00e+00		Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00		Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00		Os86	186	76	1.58e-09
Yb70	170	70	9.53e-10		Os87	187	76	5.05e-10
Yb71	171	70	1.48e-09		Os88	188	76	3.66e-09
Yb72	172	70	3.32e-09		Os89	189	76	1.39e-09
Yb73	173	70	1.62e-09		Os90	190	76	4.61e-09
Yb74	174	70	6.96e-09		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	3.37e-09
Yb76	176	70	1.00e-09		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	1.12e-09		Ir91	191	77	2.29e-09
Lu76	176	71	1.67e-10		Ir92	192	77	0.00e+00

Isotope	A	Z	YIELD [$M_\odot$]
Ir93	193	77	3.56e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	1.07e-09
Pt93	193	78	0.00e+00
Pt94	194	78	6.53e-09
Pt95	195	78	4.53e-09
Pt96	196	78	7.26e-09
Pt97	197	78	0.00e+00
Pt98	198	78	9.52e-10
Au97	197	79	2.82e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	4.77e-09
Hg99	199	80	2.64e-09
Hg00	200	80	7.86e-09
Hg01	201	80	3.44e-09
Hg02	202	80	1.32e-08
Hg03	203	80	0.00e+00
Hg04	204	80	3.33e-10
Tl03	203	81	5.85e-09
Tl04	204	81	0.00e+00
Tl05	205	81	1.26e-08
Pb04	204	82	7.22e-09
Pb05	205	82	4.28e-10
Pb06	206	82	5.07e-08
Pb07	207	82	4.61e-08
Pb08	208	82	1.12e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	1.66e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M_α = 3.00; Z = 0.010000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]

Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	1.62e+00
He4	4	2	6.83e-01
C12	12	6	1.31e-02
C13	13	6	1.07e-04
C14	14	6	8.90e-10
N14	14	7	3.52e-03
N15	15	7	2.10e-06
O16	16	8	9.77e-03
O17	17	8	4.29e-05
O18	18	8	1.52e-05
F18	18	9	0.00e+00
F19	19	9	1.80e-06
Ne20	20	10	1.81e-03
Ne21	21	10	5.26e-06
Ne22	22	10	1.02e-03
Na22	22	11	0.00e+00
Na23	23	11	8.95e-05
Na24	24	11	0.00e+00
Mg24	24	12	9.22e-04
Mg25	25	12	1.24e-04
Mg26	26	12	1.46e-04
Al26	26	13	2.31e-07
Al27	27	13	1.05e-04
Si28	28	14	1.18e-03
Si29	29	14	6.22e-05
Si30	30	14	4.29e-05
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	1.14e-05
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	6.19e-04
S33	33	16	5.19e-06
S34	34	16	2.95e-05
S35	35	16	0.00e+00
S36	36	16	1.48e-07
Cl35	35	17	6.33e-06
Cl36	36	17	2.78e-09
Cl37	37	17	2.34e-06
Ar36	36	18	1.42e-04
Ar37	37	18	0.00e+00

Ar38	38	18	2.75e-05		Fe57	57	26	5.09e-05
Ar39	39	18	6.12e-12		Fe58	58	26	8.80e-06
Ar40	40	18	6.97e-08		Fe59	59	26	0.00e+00
Ar41	41	18	0.00e+00		Fe60	60	26	4.02e-08
Ar42	42	18	0.00e+00		Co59	59	27	6.57e-06
K39	39	19	5.92e-06		Co60	60	27	1.41e-13
K40	40	19	1.89e-08		Ni58	58	28	8.55e-05
K41	41	19	4.93e-07		Ni59	59	28	6.03e-08
K42	42	19	0.00e+00		Ni60	60	28	3.46e-05
K43	43	19	0.00e+00		Ni61	61	28	1.69e-06
Ca40	40	20	1.06e-04		Ni62	62	28	5.14e-06
Ca41	41	20	7.39e-09		Ni63	63	28	2.24e-12
Ca42	42	20	7.75e-07		Ni64	64	28	1.51e-06
Ca43	43	20	1.65e-07		Ni65	65	28	0.00e+00
Ca44	44	20	2.55e-06		Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00		Cu63	63	29	1.13e-06
Ca46	46	20	6.15e-09		Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00		Cu65	65	29	5.53e-07
Ca48	48	20	2.47e-07		Cu66	66	29	0.00e+00
Sc45	45	21	7.57e-08		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	1.81e-06
Sc47	47	21	0.00e+00		Zn65	65	30	0.00e+00
Sc48	48	21	0.00e+00		Zn66	66	30	1.14e-06
Sc49	49	21	0.00e+00		Zn67	67	30	1.76e-07
Ti46	46	22	4.24e-07		Zn68	68	30	8.37e-07
Ti47	47	22	3.82e-07		Zn69	69	30	0.00e+00
Ti48	48	22	3.85e-06		Zn70	70	30	2.49e-08
Ti49	49	22	3.19e-07		Ga69	69	31	8.70e-08
Ti50	50	22	3.45e-07		Ga70	70	31	0.00e+00
V50	50	23	1.63e-09		Ga71	71	31	6.75e-08
V51	51	23	6.72e-07		Ga72	72	31	0.00e+00
Cr50	50	24	1.29e-06		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	1.15e-07
Cr52	52	24	2.62e-05		Ge71	71	32	0.00e+00
Cr53	53	24	3.02e-06		Ge72	72	32	1.49e-07
Cr54	54	24	8.31e-07		Ge73	73	32	4.24e-08
Mn55	55	25	2.31e-05		Ge74	74	32	2.01e-07
Mn56	56	25	0.00e+00		Ge75	75	32	0.00e+00
Fe54	54	26	1.24e-04		Ge76	76	32	3.09e-08
Fe55	55	26	2.05e-12		Ge77	77	32	0.00e+00
Fe56	56	26	2.04e-03		As75	75	33	2.56e-08

As76	76	33	0.00e+00		Zr91	91	40	4.93e-08
As77	77	33	0.00e+00		Zr92	92	40	7.92e-08
Se76	76	34	4.13e-08		Zr93	93	40	1.99e-08
Se77	77	34	2.57e-08		Zr94	94	40	1.08e-07
Se78	78	34	8.67e-08		Zr95	95	40	0.00e+00
Se79	79	34	5.20e-09		Zr96	96	40	7.85e-09
Se80	80	34	1.83e-07		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	7.25e-09
Se82	82	34	2.08e-08		Nb94	94	41	0.00e+00
Br79	79	35	2.53e-08		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	3.06e-08		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	1.73e-09
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	1.63e-09
Kr80	80	36	8.44e-09		Mo95	95	42	1.25e-08
Kr81	81	36	7.05e-10		Mo96	96	42	2.25e-08
Kr82	82	36	6.46e-08		Mo97	97	42	8.29e-09
Kr83	83	36	3.79e-08		Mo98	98	42	2.90e-08
Kr84	84	36	2.07e-07		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	1.95e-09
Kr86	86	36	6.39e-08		Tc97	97	43	4.49e-13
Kr87	87	36	0.00e+00		Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00		Tc99	99	43	1.28e-09
Rb85	85	37	3.47e-08		Ru96	96	44	4.34e-10
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	1.72e-08		Ru98	98	44	1.51e-10
Rb88	88	37	0.00e+00		Ru99	99	44	3.35e-09
Sr86	86	38	4.90e-08		Ru00	100	44	1.39e-08
Sr87	87	38	3.41e-08		Ru01	101	44	4.23e-09
Sr88	88	38	7.63e-07		Ru02	102	44	1.72e-08
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	2.43e-09
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	1.69e-07		Rh03	103	45	4.75e-09
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	1.03e-08
Y92	92	39	0.00e+00		Pd05	105	46	4.08e-09
Y93	93	39	0.00e+00		Pd06	106	46	1.36e-08
Zr90	90	40	1.89e-07		Pd07	107	46	2.21e-09

Pd08	108	46	1.67e-08		I127	127	53	1.02e-08
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	1.67e-09		I129	129	53	7.25e-11
Ag07	107	47	1.31e-09		I130	130	53	0.00e+00
Ag09	109	47	4.95e-09		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	1.01e-10		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	1.12e-08
Cd10	110	48	1.33e-08		Xe29	129	54	1.29e-08
Cd11	111	48	5.26e-09		Xe30	130	54	2.41e-08
Cd12	112	48	1.80e-08		Xe31	131	54	1.34e-08
Cd13	113	48	5.67e-09		Xe32	132	54	5.28e-08
Cd14	114	48	2.57e-08		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	4.80e-09
Cd16	116	48	2.03e-09		Xe35	135	54	0.00e+00
In13	113	49	3.94e-11		Xe36	136	54	2.63e-09
In15	115	49	5.57e-09		Cs33	133	55	8.30e-09
Sn14	114	50	1.26e-10		Cs34	134	55	0.00e+00
Sn15	115	50	6.53e-11		Cs35	135	55	2.62e-09
Sn16	116	50	3.45e-08		Cs36	136	55	0.00e+00
Sn17	117	50	1.12e-08		Cs37	137	55	0.00e+00
Sn18	118	50	4.93e-08		Ba34	134	56	1.56e-08
Sn19	119	50	1.50e-08		Ba35	135	56	7.22e-09
Sn20	120	50	7.80e-08		Ba36	136	56	4.60e-08
Sn21	121	50	0.00e+00		Ba37	137	56	3.86e-08
Sn22	122	50	2.78e-09		Ba38	138	56	3.44e-07
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00
Sn24	124	50	1.24e-09		Ba40	140	56	0.00e+00
Sb21	121	51	6.47e-09		La39	139	57	4.06e-08
Sb22	122	51	0.00e+00		La40	140	57	0.00e+00
Sb23	123	51	1.61e-09		Ce40	140	58	9.84e-08
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	1.64e-09
Te22	122	52	9.26e-09		Ce43	143	58	0.00e+00
Te23	123	52	3.24e-09		Ce44	144	58	0.00e+00
Te24	124	52	1.90e-08		Pr41	141	59	9.06e-09
Te25	125	52	7.93e-09		Pr42	142	59	0.00e+00
Te26	126	52	3.91e-08		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	1.26e-08		Nd42	142	60	2.23e-08
Te30	130	52	9.56e-09		Nd43	143	60	3.66e-09

Nd44	144	60	1.03e-08	Tb59	159	65	8.84e-10
Nd45	145	60	2.11e-09	Tb60	160	65	0.00e+00
Nd46	146	60	9.21e-09	Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00	Dy60	160	66	7.47e-10
Nd48	148	60	9.49e-10	Dy61	161	66	8.63e-10
Nd49	149	60	0.00e+00	Dy62	162	66	2.19e-09
Nd50	150	60	3.23e-10	Dy63	163	66	1.19e-09
Pm45	145	61	0.00e+00	Dy64	164	66	3.44e-09
Pm46	146	61	0.00e+00	Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00	Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00	Ho63	163	67	1.37e-12
Pm49	149	61	0.00e+00	Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00	Ho65	165	67	1.30e-09
Pm51	151	61	0.00e+00	Ho66	166	67	0.00e+00
Sm44	144	62	5.12e-11	Er64	164	68	2.80e-10
Sm45	145	62	0.00e+00	Er65	165	68	0.00e+00
Sm46	146	62	1.08e-13	Er66	166	68	1.66e-09
Sm47	147	62	1.21e-09	Er67	167	68	9.18e-10
Sm48	148	62	2.62e-09	Er68	168	68	2.59e-09
Sm49	149	62	6.16e-10	Er69	169	68	0.00e+00
Sm50	150	62	1.79e-09	Er70	170	68	8.02e-10
Sm51	151	62	0.00e+00	Er71	171	68	0.00e+00
Sm52	152	62	1.80e-09	Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00	Tm69	169	69	8.33e-10
Sm54	154	62	6.94e-10	Tm70	170	69	0.00e+00
Eu51	151	63	5.41e-10	Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00	Tm72	172	69	0.00e+00
Eu53	153	63	5.87e-10	Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00	Yb70	170	70	7.23e-10
Eu55	155	63	0.00e+00	Yb71	171	70	1.10e-09
Eu56	156	63	0.00e+00	Yb72	172	70	2.49e-09
Eu57	157	63	0.00e+00	Yb73	173	70	1.28e-09
Gd52	152	64	3.01e-11	Yb74	174	70	5.19e-09
Gd53	153	64	0.00e+00	Yb75	175	70	0.00e+00
Gd54	154	64	4.48e-10	Yb76	176	70	5.95e-10
Gd55	155	64	6.47e-10	Yb77	177	70	0.00e+00
Gd56	156	64	1.50e-09	Lu75	175	71	9.07e-10
Gd57	157	64	8.50e-10	Lu76	176	71	1.20e-10
Gd58	158	64	2.62e-09	Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00	Hf76	176	72	8.74e-10
Gd60	160	64	7.14e-10	Hf77	177	72	7.46e-10

Hf78	178	72	2.59e-09
Hf79	179	72	9.46e-10
Hf80	180	72	4.68e-09
Hf81	181	72	0.00e+00
Hf82	182	72	1.58e-10
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	1.97e-13
Ta81	181	73	1.06e-09
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	1.24e-12
W181	181	74	0.00e+00
W182	182	74	2.02e-09
W183	183	74	1.32e-09
W184	184	74	3.46e-09
W185	185	74	0.00e+00
W186	186	74	1.46e-09
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	7.80e-10
Re86	186	75	0.00e+00
Re87	187	75	4.82e-10
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	1.19e-09
Os87	187	76	4.40e-10
Os88	188	76	2.24e-09
Os89	189	76	1.33e-09
Os90	190	76	3.57e-09
Os91	191	76	0.00e+00
Os92	192	76	2.78e-09
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	2.50e-09
Ir92	192	77	0.00e+00
Ir93	193	77	4.03e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00

Pt92	192	78	7.89e-10
Pt93	193	78	0.00e+00
Pt94	194	78	6.32e-09
Pt95	195	78	4.96e-09
Pt96	196	78	6.86e-09
Pt97	197	78	0.00e+00
Pt98	198	78	9.73e-10
Au97	197	79	2.79e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	3.51e-09
Hg99	199	80	2.07e-09
Hg00	200	80	5.59e-09
Hg01	201	80	2.47e-09
Hg02	202	80	8.68e-09
Hg03	203	80	0.00e+00
Hg04	204	80	3.07e-10
Tl03	203	81	4.05e-09
Tl04	204	81	0.00e+00
Tl05	205	81	9.58e-09
Pb04	204	82	5.94e-09
Pb05	205	82	3.60e-10
Pb06	206	82	3.34e-08
Pb07	207	82	3.95e-08
Pb08	208	82	8.48e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	1.83e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M$_p$ = 3.00; Z = 0.014000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [M$_\odot$]
H	1	1	1.59e+00
He4	4	2	6.92e-01
C12	12	6	1.49e-02

C13	13	6	1.48e-04		Ar41	41	18	0.00e+00
C14	14	6	7.25e-10		Ar42	42	18	0.00e+00
N14	14	7	4.71e-03		K39	39	19	8.13e-06
N15	15	7	2.95e-06		K40	40	19	2.72e-08
O16	16	8	1.33e-02		K41	41	19	6.83e-07
O17	17	8	5.51e-05		K42	42	19	0.00e+00
O18	18	8	2.12e-05		K43	43	19	0.00e+00
F18	18	9	0.00e+00		Ca40	40	20	1.46e-04
F19	19	9	2.38e-06		Ca41	41	20	9.75e-09
Ne20	20	10	2.49e-03		Ca42	42	20	1.06e-06
Ne21	21	10	6.99e-06		Ca43	43	20	2.26e-07
Ne22	22	10	1.42e-03		Ca44	44	20	3.50e-06
Na22	22	11	0.00e+00		Ca45	45	20	0.00e+00
Na23	23	11	1.23e-04		Ca46	46	20	7.84e-09
Na24	24	11	0.00e+00		Ca47	47	20	0.00e+00
Mg24	24	12	1.26e-03		Ca48	48	20	3.39e-07
Mg25	25	12	1.69e-04		Sc45	45	21	1.04e-07
Mg26	26	12	1.99e-04		Sc46	46	21	0.00e+00
Al26	26	13	3.54e-07		Sc47	47	21	0.00e+00
Al27	27	13	1.43e-04		Sc48	48	21	0.00e+00
Si28	28	14	1.62e-03		Sc49	49	21	0.00e+00
Si29	29	14	8.53e-05		Ti46	46	22	5.82e-07
Si30	30	14	5.89e-05		Ti47	47	22	5.24e-07
Si31	31	14	0.00e+00		Ti48	48	22	5.29e-06
Si32	32	14	0.00e+00		Ti49	49	22	4.38e-07
P31	31	15	1.56e-05		Ti50	50	22	4.61e-07
P32	32	15	0.00e+00		V50	50	23	2.23e-09
P33	33	15	0.00e+00		V51	51	23	9.22e-07
S32	32	16	8.50e-04		Cr50	50	24	1.77e-06
S33	33	16	7.13e-06		Cr51	51	24	0.00e+00
S34	34	16	4.05e-05		Cr52	52	24	3.59e-05
S35	35	16	0.00e+00		Cr53	53	24	4.15e-06
S36	36	16	2.02e-07		Cr54	54	24	1.14e-06
Cl35	35	17	8.69e-06		Mn55	55	25	3.18e-05
Cl36	36	17	3.59e-09		Mn56	56	25	0.00e+00
Cl37	37	17	3.24e-06		Fe54	54	26	1.71e-04
Ar36	36	18	1.95e-04		Fe55	55	26	4.45e-12
Ar37	37	18	0.00e+00		Fe56	56	26	2.79e-03
Ar38	38	18	3.77e-05		Fe57	57	26	6.99e-05
Ar39	39	18	1.17e-11		Fe58	58	26	1.18e-05
Ar40	40	18	9.21e-08		Fe59	59	26	0.00e+00

Fe60	60	26	2.52e-08		Se77	77	34	3.83e-08
Co59	59	27	8.99e-06		Se78	78	34	1.30e-07
Co60	60	27	0.00e+00		Se79	79	34	8.04e-09
Ni58	58	28	1.17e-04		Se80	80	34	2.73e-07
Ni59	59	28	7.49e-08		Se81	81	34	0.00e+00
Ni60	60	28	4.74e-05		Se82	82	34	2.85e-08
Ni61	61	28	2.33e-06		Br79	79	35	3.69e-08
Ni62	62	28	7.06e-06		Br80	80	35	0.00e+00
Ni63	63	28	5.85e-12		Br81	81	35	4.59e-08
Ni64	64	28	2.13e-06		Br82	82	35	0.00e+00
Ni65	65	28	0.00e+00		Br83	83	35	0.00e+00
Ni66	66	28	0.00e+00		Br84	84	35	0.00e+00
Cu63	63	29	1.55e-06		Kr80	80	36	1.39e-08
Cu64	64	29	0.00e+00		Kr81	81	36	1.29e-09
Cu65	65	29	7.80e-07		Kr82	82	36	1.03e-07
Cu66	66	29	0.00e+00		Kr83	83	36	5.68e-08
Cu67	67	29	0.00e+00		Kr84	84	36	3.12e-07
Zn64	64	30	2.49e-06		Kr85	85	36	0.00e+00
Zn65	65	30	0.00e+00		Kr86	86	36	7.96e-08
Zn66	66	30	1.59e-06		Kr87	87	36	0.00e+00
Zn67	67	30	2.48e-07		Kr88	88	36	0.00e+00
Zn68	68	30	1.19e-06		Rb85	85	37	5.15e-08
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	3.41e-08		Rb87	87	37	2.06e-08
Ga69	69	31	1.26e-07		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	8.22e-08
Ga71	71	31	1.01e-07		Sr87	87	38	5.71e-08
Ga72	72	31	0.00e+00		Sr88	88	38	1.12e-06
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	1.72e-07		Sr90	90	38	0.00e+00
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	2.20e-07		Sr92	92	38	0.00e+00
Ge73	73	32	6.25e-08		Y89	89	39	2.35e-07
Ge74	74	32	2.97e-07		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	4.24e-08		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	3.70e-08		Zr90	90	40	2.56e-07
As76	76	33	0.00e+00		Zr91	91	40	6.42e-08
As77	77	33	0.00e+00		Zr92	92	40	1.01e-07
Se76	76	34	6.41e-08		Zr93	93	40	2.45e-08

Zr94	94	40	1.34e-07		Ag07	107	47	1.80e-09
Zr95	95	40	0.00e+00		Ag09	109	47	6.08e-09
Zr96	96	40	5.10e-09		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	1.44e-10
Nb93	93	41	1.01e-08		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	1.60e-08
Nb95	95	41	0.00e+00		Cd11	111	48	6.37e-09
Nb96	96	41	0.00e+00		Cd12	112	48	2.12e-08
Nb97	97	41	0.00e+00		Cd13	113	48	6.75e-09
Mo92	92	42	2.38e-09		Cd14	114	48	2.97e-08
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	2.23e-09		Cd16	116	48	1.81e-09
Mo95	95	42	1.52e-08		In13	113	49	5.39e-11
Mo96	96	42	2.79e-08		In15	115	49	6.49e-09
Mo97	97	42	1.02e-08		Sn14	114	50	1.72e-10
Mo98	98	42	3.58e-08		Sn15	115	50	8.95e-11
Mo99	99	42	0.00e+00		Sn16	116	50	3.94e-08
Mo00	100	42	2.28e-09		Sn17	117	50	1.28e-08
Tc97	97	43	8.13e-13		Sn18	118	50	5.41e-08
Tc98	98	43	1.37e-13		Sn19	119	50	1.65e-08
Tc99	99	43	1.35e-09		Sn20	120	50	8.20e-08
Ru96	96	44	5.94e-10		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	2.14e-09
Ru98	98	44	2.07e-10		Sn23	123	50	0.00e+00
Ru99	99	44	4.44e-09		Sn24	124	50	1.66e-09
Ru00	100	44	1.72e-08		Sb21	121	51	6.94e-09
Ru01	101	44	5.36e-09		Sb22	122	51	0.00e+00
Ru02	102	44	2.12e-08		Sb23	123	51	1.71e-09
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	2.92e-09		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	9.82e-09
Ru06	106	44	0.00e+00		Te23	123	52	3.47e-09
Rh03	103	45	6.02e-09		Te24	124	52	1.97e-08
Rh05	105	45	0.00e+00		Te25	125	52	8.70e-09
Pd04	104	46	1.27e-08		Te26	126	52	4.06e-08
Pd05	105	46	5.18e-09		Te27	127	52	0.00e+00
Pd06	106	46	1.67e-08		Te28	128	52	1.56e-08
Pd07	107	46	2.64e-09		Te30	130	52	1.31e-08
Pd08	108	46	2.02e-08		I127	127	53	1.23e-08
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	1.84e-09		I129	129	53	6.26e-11

I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	7.48e-10
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	4.33e-10
Xe28	128	54	1.13e-08		Pm45	145	61	0.00e+00
Xe29	129	54	1.60e-08		Pm46	146	61	0.00e+00
Xe30	130	54	2.39e-08		Pm47	147	61	0.00e+00
Xe31	131	54	1.56e-08		Pm48	148	61	0.00e+00
Xe32	132	54	5.29e-08		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	5.00e-09		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	7.03e-11
Xe36	136	54	3.60e-09		Sm45	145	62	0.00e+00
Cs33	133	55	8.58e-09		Sm46	146	62	1.65e-13
Cs34	134	55	0.00e+00		Sm47	147	62	9.25e-10
Cs35	135	55	2.01e-09		Sm48	148	62	1.80e-09
Cs36	136	55	0.00e+00		Sm49	149	62	5.56e-10
Cs37	137	55	0.00e+00		Sm50	150	62	1.19e-09
Ba34	134	56	1.50e-08		Sm51	151	62	0.00e+00
Ba35	135	56	7.59e-09		Sm52	152	62	1.43e-09
Ba36	136	56	4.20e-08		Sm53	153	62	0.00e+00
Ba37	137	56	3.44e-08		Sm54	154	62	6.95e-10
Ba38	138	56	2.57e-07		Eu51	151	63	5.64e-10
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	6.14e-10
La39	139	57	2.97e-08		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	6.78e-08		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	1.46e-09		Gd52	152	64	2.60e-11
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	3.18e-10
Pr41	141	59	6.44e-09		Gd55	155	64	6.48e-10
Pr42	142	59	0.00e+00		Gd56	156	64	1.28e-09
Pr43	143	59	0.00e+00		Gd57	157	64	8.00e-10
Pr45	145	59	0.00e+00		Gd58	158	64	2.07e-09
Nd42	142	60	1.52e-08		Gd59	159	64	0.00e+00
Nd43	143	60	2.74e-09		Gd60	160	64	8.07e-10
Nd44	144	60	7.30e-09		Tb59	159	65	8.63e-10
Nd45	145	60	1.63e-09		Tb60	160	65	0.00e+00
Nd46	146	60	6.38e-09		Tb61	161	65	0.00e+00

Dy60	160	66	5.17e-10		Hf81	181	72	0.00e+00
Dy61	161	66	9.31e-10		Hf82	182	72	7.27e-11
Dy62	162	66	1.90e-09		Hf83	183	72	0.00e+00
Dy63	163	66	1.27e-09		Hf84	184	72	0.00e+00
Dy64	164	66	2.75e-09		Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00		Ta80	180	73	1.33e-13
Dy66	166	66	0.00e+00		Ta81	181	73	7.78e-10
Ho63	163	67	5.78e-13		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta83	183	73	0.00e+00
Ho65	165	67	1.30e-09		Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00		W180	180	74	1.70e-12
Er64	164	68	1.93e-10		W181	181	74	0.00e+00
Er65	165	68	0.00e+00		W182	182	74	1.50e-09
Er66	166	68	1.53e-09		W183	183	74	9.42e-10
Er67	167	68	9.06e-10		W184	184	74	2.40e-09
Er68	168	68	2.01e-09		W185	185	74	0.00e+00
Er69	169	68	0.00e+00		W186	186	74	1.05e-09
Er70	170	68	6.62e-10		W187	187	74	0.00e+00
Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	6.04e-10
Tm69	169	69	7.28e-10		Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00		Re87	187	75	4.66e-10
Tm71	171	69	0.00e+00		Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00		Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00		Os86	186	76	8.26e-10
Yb70	170	70	4.98e-10		Os87	187	76	3.76e-10
Yb71	171	70	8.71e-10		Os88	188	76	1.97e-09
Yb72	172	70	1.87e-09		Os89	189	76	1.52e-09
Yb73	173	70	1.03e-09		Os90	190	76	3.37e-09
Yb74	174	70	3.69e-09		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	3.48e-09
Yb76	176	70	5.14e-10		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	7.64e-10		Ir91	191	77	3.10e-09
Lu76	176	71	7.94e-11		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	5.12e-09
Hf76	176	72	5.97e-10		Ir94	194	77	0.00e+00
Hf77	177	72	6.47e-10		Ir95	195	77	0.00e+00
Hf78	178	72	1.88e-09		Pt92	192	78	5.87e-10
Hf79	179	72	7.25e-10		Pt93	193	78	0.00e+00
Hf80	180	72	3.26e-09		Pt94	194	78	6.88e-09

Isotope	A	Z	YIELD
Pt95	195	78	6.09e-09
Pt96	196	78	6.64e-09
Pt97	197	78	0.00e+00
Pt98	198	78	1.24e-09
Au97	197	79	3.05e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	2.57e-09
Hg99	199	80	1.79e-09
Hg00	200	80	4.24e-09
Hg01	201	80	1.95e-09
Hg02	202	80	6.52e-09
Hg03	203	80	0.00e+00
Hg04	204	80	3.83e-10
Tl03	203	81	3.00e-09
Tl04	204	81	0.00e+00
Tl05	205	81	7.45e-09
Pb04	204	82	4.44e-09
Pb05	205	82	2.42e-10
Pb06	206	82	2.77e-08
Pb07	207	82	3.24e-08
Pb08	208	82	6.21e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	2.06e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 3.00; Z = 0.020000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	1.55e+00
He4	4	2	6.88e-01
C12	12	6	1.80e-02
C13	13	6	2.13e-04
C14	14	6	9.85e-10
N14	14	7	6.41e-03
N15	15	7	4.32e-06
O16	16	8	1.90e-02
O17	17	8	7.71e-05
O18	18	8	3.09e-05
F18	18	9	0.00e+00
F19	19	9	3.44e-06
Ne20	20	10	3.56e-03
Ne21	21	10	9.67e-06
Ne22	22	10	2.20e-03
Na22	22	11	0.00e+00
Na23	23	11	1.81e-04
Na24	24	11	0.00e+00
Mg24	24	12	1.81e-03
Mg25	25	12	2.38e-04
Mg26	26	12	2.82e-04
Al26	26	13	6.76e-07
Al27	27	13	2.04e-04
Si28	28	14	2.31e-03
Si29	29	14	1.22e-04
Si30	30	14	8.41e-05
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	2.23e-05
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	1.21e-03
S33	33	16	1.02e-05
S34	34	16	5.79e-05
S35	35	16	0.00e+00
S36	36	16	2.91e-07
Cl35	35	17	1.24e-05
Cl36	36	17	4.70e-09
Cl37	37	17	4.73e-06
Ar36	36	18	2.78e-04
Ar37	37	18	0.00e+00
Ar38	38	18	5.39e-05
Ar39	39	18	7.14e-12
Ar40	40	18	1.30e-07
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	1.16e-05

K40	40	19	4.07e-08		Ni58	58	28	1.68e-04
K41	41	19	9.93e-07		Ni59	59	28	9.58e-08
K42	42	19	0.00e+00		Ni60	60	28	6.78e-05
K43	43	19	0.00e+00		Ni61	61	28	3.37e-06
Ca40	40	20	2.08e-04		Ni62	62	28	1.02e-05
Ca41	41	20	1.38e-08		Ni63	63	28	2.67e-12
Ca42	42	20	1.53e-06		Ni64	64	28	3.24e-06
Ca43	43	20	3.24e-07		Ni65	65	28	0.00e+00
Ca44	44	20	5.00e-06		Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00		Cu63	63	29	2.26e-06
Ca46	46	20	1.14e-08		Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00		Cu65	65	29	1.17e-06
Ca48	48	20	4.84e-07		Cu66	66	29	0.00e+00
Sc45	45	21	1.48e-07		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	3.59e-06
Sc47	47	21	0.00e+00		Zn65	65	30	0.00e+00
Sc48	48	21	0.00e+00		Zn66	66	30	2.34e-06
Sc49	49	21	0.00e+00		Zn67	67	30	3.70e-07
Ti46	46	22	8.33e-07		Zn68	68	30	1.78e-06
Ti47	47	22	7.49e-07		Zn69	69	30	0.00e+00
Ti48	48	22	7.55e-06		Zn70	70	30	4.87e-08
Ti49	49	22	6.27e-07		Ga69	69	31	1.99e-07
Ti50	50	22	6.45e-07		Ga70	70	31	0.00e+00
V50	50	23	3.18e-09		Ga71	71	31	1.64e-07
V51	51	23	1.32e-06		Ga72	72	31	0.00e+00
Cr50	50	24	2.53e-06		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	2.79e-07
Cr52	52	24	5.13e-05		Ge71	71	32	0.00e+00
Cr53	53	24	5.92e-06		Ge72	72	32	3.48e-07
Cr54	54	24	1.63e-06		Ge73	73	32	9.82e-08
Mn55	55	25	4.55e-05		Ge74	74	32	4.69e-07
Mn56	56	25	0.00e+00		Ge75	75	32	0.00e+00
Fe54	54	26	2.44e-04		Ge76	76	32	6.05e-08
Fe55	55	26	3.20e-12		Ge77	77	32	0.00e+00
Fe56	56	26	3.99e-03		As75	75	33	5.68e-08
Fe57	57	26	9.98e-05		As76	76	33	0.00e+00
Fe58	58	26	1.72e-05		As77	77	33	0.00e+00
Fe59	59	26	0.00e+00		Se76	76	34	1.08e-07
Fe60	60	26	5.36e-08		Se77	77	34	6.14e-08
Co59	59	27	1.30e-05		Se78	78	34	2.10e-07
Co60	60	27	1.88e-13		Se79	79	34	1.15e-08

Se80	80	34	4.33e-07
Se81	81	34	0.00e+00
Se82	82	34	4.07e-08
Br79	79	35	5.77e-08
Br80	80	35	0.00e+00
Br81	81	35	7.44e-08
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	2.66e-08
Kr81	81	36	2.49e-09
Kr82	82	36	1.76e-07
Kr83	83	36	8.96e-08
Kr84	84	36	4.93e-07
Kr85	85	36	0.00e+00
Kr86	86	36	1.04e-07
Kr87	87	36	0.00e+00
Kr88	88	36	0.00e+00
Rb85	85	37	8.00e-08
Rb86	86	37	0.00e+00
Rb87	87	37	2.68e-08
Rb88	88	37	0.00e+00
Sr86	86	38	1.47e-07
Sr87	87	38	9.85e-08
Sr88	88	38	1.57e-06
Sr89	89	38	0.00e+00
Sr90	90	38	0.00e+00
Sr91	91	38	0.00e+00
Sr92	92	38	0.00e+00
Y89	89	39	3.06e-07
Y90	90	39	0.00e+00
Y91	91	39	0.00e+00
Y92	92	39	0.00e+00
Y93	93	39	0.00e+00
Zr90	90	40	3.13e-07
Zr91	91	40	7.36e-08
Zr92	92	40	1.14e-07
Zr93	93	40	2.45e-08
Zr94	94	40	1.40e-07
Zr95	95	40	0.00e+00
Zr96	96	40	5.24e-09

Zr97	97	40	0.00e+00
Nb93	93	41	1.43e-08
Nb94	94	41	0.00e+00
Nb95	95	41	0.00e+00
Nb96	96	41	0.00e+00
Nb97	97	41	0.00e+00
Mo92	92	42	3.40e-09
Mo93	93	42	0.00e+00
Mo94	94	42	3.23e-09
Mo95	95	42	1.59e-08
Mo96	96	42	2.92e-08
Mo97	97	42	1.10e-08
Mo98	98	42	3.65e-08
Mo99	99	42	0.00e+00
Mo00	100	42	2.69e-09
Tc97	97	43	1.84e-12
Tc98	98	43	2.81e-13
Tc99	99	43	9.79e-10
Ru96	96	44	8.47e-10
Ru97	97	44	0.00e+00
Ru98	98	44	2.95e-10
Ru99	99	44	5.25e-09
Ru00	100	44	1.70e-08
Ru01	101	44	6.00e-09
Ru02	102	44	2.15e-08
Ru03	103	44	0.00e+00
Ru04	104	44	3.46e-09
Ru05	105	44	0.00e+00
Ru06	106	44	0.00e+00
Rh03	103	45	6.70e-09
Rh05	105	45	0.00e+00
Pd04	104	46	1.25e-08
Pd05	105	46	5.85e-09
Pd06	106	46	1.65e-08
Pd07	107	46	2.37e-09
Pd08	108	46	1.93e-08
Pd09	109	46	0.00e+00
Pd10	110	46	1.92e-09
Ag07	107	47	2.53e-09
Ag09	109	47	6.28e-09
Ag11	111	47	0.00e+00

Cd08	108	48	2.09e-10		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	8.41e-09
Cd10	110	48	1.50e-08		Xe29	129	54	1.95e-08
Cd11	111	48	6.36e-09		Xe30	130	54	1.74e-08
Cd12	112	48	1.96e-08		Xe31	131	54	1.75e-08
Cd13	113	48	6.55e-09		Xe32	132	54	4.26e-08
Cd14	114	48	2.67e-08		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	6.41e-09
Cd16	116	48	1.63e-09		Xe35	135	54	0.00e+00
In13	113	49	7.67e-11		Xe36	136	54	5.14e-09
In15	115	49	6.12e-09		Cs33	133	55	7.69e-09
Sn14	114	50	2.46e-10		Cs34	134	55	0.00e+00
Sn15	115	50	1.28e-10		Cs35	135	55	8.14e-10
Sn16	116	50	3.47e-08		Cs36	136	55	0.00e+00
Sn17	117	50	1.17e-08		Cs37	137	55	0.00e+00
Sn18	118	50	4.60e-08		Ba34	134	56	1.06e-08
Sn19	119	50	1.43e-08		Ba35	135	56	6.88e-09
Sn20	120	50	6.55e-08		Ba36	136	56	2.73e-08
Sn21	121	50	0.00e+00		Ba37	137	56	2.33e-08
Sn22	122	50	2.19e-09		Ba38	138	56	1.65e-07
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00
Sn24	124	50	2.38e-09		Ba40	140	56	0.00e+00
Sb21	121	51	5.98e-09		La39	139	57	1.96e-08
Sb22	122	51	0.00e+00		La40	140	57	0.00e+00
Sb23	123	51	1.80e-09		Ce40	140	58	4.66e-08
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	1.73e-09
Te22	122	52	7.95e-09		Ce43	143	58	0.00e+00
Te23	123	52	2.85e-09		Ce44	144	58	0.00e+00
Te24	124	52	1.53e-08		Pr41	141	59	4.84e-09
Te25	125	52	8.07e-09		Pr42	142	59	0.00e+00
Te26	126	52	3.29e-08		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	1.96e-08		Nd42	142	60	1.06e-08
Te30	130	52	1.87e-08		Nd43	143	60	2.32e-09
I127	127	53	1.41e-08		Nd44	144	60	5.73e-09
I128	128	53	0.00e+00		Nd45	145	60	1.46e-09
I129	129	53	3.30e-11		Nd46	146	60	4.90e-09
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	7.27e-10
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00

Nd50	150	60	6.15e-10		Dy63	163	66	1.57e-09
Pm45	145	61	0.00e+00		Dy64	164	66	2.64e-09
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	3.59e-13
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	1.53e-09
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	1.00e-10		Er64	164	68	1.51e-10
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	2.59e-13		Er66	166	68	1.69e-09
Sm47	147	62	8.30e-10		Er67	167	68	1.06e-09
Sm48	148	62	1.36e-09		Er68	168	68	1.86e-09
Sm49	149	62	6.00e-10		Er69	169	68	0.00e+00
Sm50	150	62	8.64e-10		Er70	170	68	6.70e-10
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	1.36e-09		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	7.67e-10
Sm54	154	62	8.37e-10		Tm70	170	69	0.00e+00
Eu51	151	63	6.85e-10		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00
Eu53	153	63	7.49e-10		Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00		Yb70	170	70	3.91e-10
Eu55	155	63	0.00e+00		Yb71	171	70	8.31e-10
Eu56	156	63	0.00e+00		Yb72	172	70	1.65e-09
Eu57	157	63	0.00e+00		Yb73	173	70	9.95e-10
Gd52	152	64	2.62e-11		Yb74	174	70	3.00e-09
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00
Gd54	154	64	2.55e-10		Yb76	176	70	5.52e-10
Gd55	155	64	7.68e-10		Yb77	177	70	0.00e+00
Gd56	156	64	1.32e-09		Lu75	175	71	7.71e-10
Gd57	157	64	9.00e-10		Lu76	176	71	5.67e-11
Gd58	158	64	1.95e-09		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	4.55e-10
Gd60	160	64	1.05e-09		Hf77	177	72	6.75e-10
Tb59	159	65	9.99e-10		Hf78	178	72	1.58e-09
Tb60	160	65	0.00e+00		Hf79	179	72	6.56e-10
Tb61	161	65	0.00e+00		Hf80	180	72	2.57e-09
Dy60	160	66	4.04e-10		Hf81	181	72	0.00e+00
Dy61	161	66	1.16e-09		Hf82	182	72	2.24e-11
Dy62	162	66	1.99e-09		Hf83	183	72	0.00e+00

Isotope	A	Z	YIELD
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00
Ta81	181	73	6.65e-10
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	2.42e-12
W181	181	74	0.00e+00
W182	182	74	1.30e-09
W183	183	74	7.67e-10
W184	184	74	1.87e-09
W185	185	74	0.00e+00
W186	186	74	8.54e-10
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	5.52e-10
Re86	186	75	0.00e+00
Re87	187	75	5.31e-10
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	6.50e-10
Os87	187	76	3.91e-10
Os88	188	76	2.08e-09
Os89	189	76	1.97e-09
Os90	190	76	3.79e-09
Os91	191	76	0.00e+00
Os92	192	76	4.74e-09
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	4.18e-09
Ir92	192	77	0.00e+00
Ir93	193	77	7.03e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	5.26e-10
Pt93	193	78	0.00e+00
Pt94	194	78	8.67e-09
Pt95	195	78	8.21e-09
Pt96	196	78	7.62e-09
Pt97	197	78	0.00e+00

Isotope	A	Z	YIELD
Pt98	198	78	1.71e-09
Au97	197	79	3.83e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	2.11e-09
Hg99	199	80	1.83e-09
Hg00	200	80	3.63e-09
Hg01	201	80	1.76e-09
Hg02	202	80	5.36e-09
Hg03	203	80	0.00e+00
Hg04	204	80	5.25e-10
Tl03	203	81	2.39e-09
Tl04	204	81	0.00e+00
Tl05	205	81	5.97e-09
Pb04	204	82	3.50e-09
Pb05	205	82	1.45e-10
Pb06	206	82	2.19e-08
Pb07	207	82	2.31e-08
Pb08	208	82	4.74e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	2.65e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 4.00; Z = 0.000100 [α/Fe]=0.5; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	2.13e+00
He4	4	2	9.62e-01
C12	12	6	1.39e-02
C13	13	6	5.42e-05
C14	14	6	3.17e-08
N14	14	7	1.17e-04
N15	15	7	2.72e-08
O16	16	8	7.88e-04
O17	17	8	6.05e-06

O18	18	8	1.56e-07
F18	18	9	0.00e+00
F19	19	9	4.16e-08
Ne20	20	10	8.00e-05
Ne21	21	10	6.98e-07
Ne22	22	10	2.40e-04
Na22	22	11	0.00e+00
Na23	23	11	9.98e-06
Na24	24	11	0.00e+00
Mg24	24	12	4.08e-05
Mg25	25	12	3.31e-05
Mg26	26	12	6.68e-05
Al26	26	13	3.46e-09
Al27	27	13	3.07e-06
Si28	28	14	5.41e-05
Si29	29	14	1.57e-06
Si30	30	14	2.15e-06
Si31	31	14	0.00e+00
Si32	32	14	3.87e-11
P31	31	15	8.37e-07
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	2.65e-05
S33	33	16	7.64e-08
S34	34	16	5.55e-07
S35	35	16	0.00e+00
S36	36	16	1.39e-08
Cl35	35	17	8.94e-08
Cl36	36	17	2.37e-10
Cl37	37	17	3.42e-08
Ar36	36	18	6.03e-06
Ar37	37	18	0.00e+00
Ar38	38	18	3.92e-07
Ar39	39	18	1.75e-11
Ar40	40	18	1.55e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	8.80e-08
K40	40	19	1.43e-10
K41	41	19	8.05e-09
K42	42	19	0.00e+00

K43	43	19	0.00e+00
Ca40	40	20	4.53e-06
Ca41	41	20	7.60e-11
Ca42	42	20	1.29e-08
Ca43	43	20	2.95e-09
Ca44	44	20	3.82e-08
Ca45	45	20	0.00e+00
Ca46	46	20	4.33e-09
Ca47	47	20	0.00e+00
Ca48	48	20	3.89e-09
Sc45	45	21	2.31e-09
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	6.36e-09
Ti47	47	22	5.87e-09
Ti48	48	22	5.31e-08
Ti49	49	22	5.41e-09
Ti50	50	22	7.91e-09
V50	50	23	2.20e-11
V51	51	23	9.26e-09
Cr50	50	24	1.75e-08
Cr51	51	24	0.00e+00
Cr52	52	24	3.53e-07
Cr53	53	24	4.08e-08
Cr54	54	24	1.27e-08
Mn55	55	25	3.07e-07
Mn56	56	25	0.00e+00
Fe54	54	26	1.68e-06
Fe55	55	26	0.00e+00
Fe56	56	26	2.74e-05
Fe57	57	26	6.53e-07
Fe58	58	26	1.32e-07
Fe59	59	26	0.00e+00
Fe60	60	26	1.01e-07
Co59	59	27	1.01e-07
Co60	60	27	2.06e-13
Ni58	58	28	1.15e-06
Ni59	59	28	2.07e-11
Ni60	60	28	4.75e-07

Ni61	61	28	3.33e-08	Br79	79	35	6.74e-10
Ni62	62	28	1.07e-07	Br80	80	35	0.00e+00
Ni63	63	28	1.34e-11	Br81	81	35	1.94e-09
Ni64	64	28	9.96e-08	Br82	82	35	0.00e+00
Ni65	65	28	0.00e+00	Br83	83	35	0.00e+00
Ni66	66	28	0.00e+00	Br84	84	35	0.00e+00
Cu63	63	29	4.33e-08	Kr80	80	36	1.72e-10
Cu64	64	29	0.00e+00	Kr81	81	36	2.75e-11
Cu65	65	29	2.75e-08	Kr82	82	36	4.26e-09
Cu66	66	29	0.00e+00	Kr83	83	36	1.86e-09
Cu67	67	29	0.00e+00	Kr84	84	36	1.22e-08
Zn64	64	30	2.42e-08	Kr85	85	36	0.00e+00
Zn65	65	30	0.00e+00	Kr86	86	36	2.08e-08
Zn66	66	30	3.04e-08	Kr87	87	36	0.00e+00
Zn67	67	30	5.80e-09	Kr88	88	36	0.00e+00
Zn68	68	30	3.53e-08	Rb85	85	37	4.05e-09
Zn69	69	30	0.00e+00	Rb86	86	37	0.00e+00
Zn70	70	30	1.04e-09	Rb87	87	37	9.94e-09
Ga69	69	31	4.55e-09	Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00	Sr86	86	38	1.69e-09
Ga71	71	31	3.18e-09	Sr87	87	38	7.15e-10
Ga72	72	31	0.00e+00	Sr88	88	38	1.87e-08
Ga73	73	31	0.00e+00	Sr89	89	38	0.00e+00
Ge70	70	32	6.62e-09	Sr90	90	38	2.80e-13
Ge71	71	32	0.00e+00	Sr91	91	38	0.00e+00
Ge72	72	32	7.74e-09	Sr92	92	38	0.00e+00
Ge73	73	32	2.31e-09	Y89	89	39	4.88e-09
Ge74	74	32	1.37e-08	Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00	Y91	91	39	0.00e+00
Ge76	76	32	1.49e-09	Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00	Y93	93	39	0.00e+00
As75	75	33	1.49e-09	Zr90	90	40	3.72e-09
As76	76	33	0.00e+00	Zr91	91	40	1.18e-09
As77	77	33	0.00e+00	Zr92	92	40	1.86e-09
Se76	76	34	2.99e-09	Zr93	93	40	6.65e-10
Se77	77	34	1.37e-09	Zr94	94	40	2.30e-09
Se78	78	34	8.15e-09	Zr95	95	40	0.00e+00
Se79	79	34	1.20e-09	Zr96	96	40	1.68e-09
Se80	80	34	1.10e-08	Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00	Nb93	93	41	6.45e-11
Se82	82	34	2.79e-09	Nb94	94	41	0.00e+00

Nb95	95	41	0.00e+00
Nb96	96	41	0.00e+00
Nb97	97	41	0.00e+00
Mo92	92	42	2.35e-11
Mo93	93	42	0.00e+00
Mo94	94	42	1.50e-11
Mo95	95	42	3.52e-10
Mo96	96	42	4.73e-10
Mo97	97	42	2.55e-10
Mo98	98	42	8.30e-10
Mo99	99	42	0.00e+00
Mo00	100	42	1.32e-10
Tc97	97	43	0.00e+00
Tc98	98	43	0.00e+00
Tc99	99	43	9.16e-11
Ru96	96	44	5.92e-12
Ru97	97	44	0.00e+00
Ru98	98	44	2.04e-12
Ru99	99	44	3.73e-11
Ru00	100	44	3.62e-10
Ru01	101	44	1.05e-10
Ru02	102	44	5.61e-10
Ru03	103	44	0.00e+00
Ru04	104	44	1.22e-10
Ru05	105	44	0.00e+00
Ru06	106	44	0.00e+00
Rh03	103	45	1.21e-10
Rh05	105	45	0.00e+00
Pd04	104	46	2.52e-10
Pd05	105	46	9.67e-11
Pd06	106	46	3.63e-10
Pd07	107	46	6.43e-11
Pd08	108	46	4.32e-10
Pd09	109	46	0.00e+00
Pd10	110	46	1.08e-10
Ag07	107	47	1.70e-11
Ag09	109	47	1.36e-10
Ag11	111	47	0.00e+00
Cd08	108	48	9.55e-13
Cd09	109	48	0.00e+00
Cd10	110	48	3.11e-10

Cd11	111	48	1.30e-10
Cd12	112	48	4.65e-10
Cd13	113	48	1.40e-10
Cd14	114	48	6.52e-10
Cd15	115	48	0.00e+00
Cd16	116	48	2.87e-10
In13	113	49	5.39e-13
In15	115	49	1.43e-10
Sn14	114	50	1.71e-12
Sn15	115	50	8.85e-13
Sn16	116	50	7.03e-10
Sn17	117	50	2.75e-10
Sn18	118	50	1.27e-09
Sn19	119	50	3.80e-10
Sn20	120	50	1.92e-09
Sn21	121	50	0.00e+00
Sn22	122	50	1.04e-09
Sn23	123	50	0.00e+00
Sn24	124	50	5.46e-10
Sb21	121	51	1.64e-10
Sb22	122	51	0.00e+00
Sb23	123	51	1.22e-10
Sb24	124	51	0.00e+00
Sb25	125	51	0.00e+00
Te22	122	52	2.02e-10
Te23	123	52	6.61e-11
Te24	124	52	5.16e-10
Te25	125	52	2.11e-10
Te26	126	52	9.85e-10
Te27	127	52	0.00e+00
Te28	128	52	3.21e-10
Te30	130	52	1.29e-10
I127	127	53	2.02e-10
I128	128	53	0.00e+00
I129	129	53	8.33e-12
I130	130	53	0.00e+00
I131	131	53	0.00e+00
I132	132	53	0.00e+00
I133	133	53	0.00e+00
Xe28	128	54	2.79e-10
Xe29	129	54	2.34e-10

Xe30	130	54	5.67e-10		Pm47	147	61	0.00e+00
Xe31	131	54	2.51e-10		Pm48	148	61	0.00e+00
Xe32	132	54	1.07e-09		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	7.84e-10		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	6.95e-13
Xe36	136	54	1.38e-09		Sm45	145	62	0.00e+00
Cs33	133	55	1.75e-10		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	2.36e-11
Cs35	135	55	1.79e-10		Sm48	148	62	3.67e-11
Cs36	136	55	0.00e+00		Sm49	149	62	1.24e-11
Cs37	137	55	2.58e-13		Sm50	150	62	3.68e-11
Ba34	134	56	2.51e-10		Sm51	151	62	0.00e+00
Ba35	135	56	9.75e-11		Sm52	152	62	3.80e-11
Ba36	136	56	7.53e-10		Sm53	153	62	0.00e+00
Ba37	137	56	1.95e-09		Sm54	154	62	2.45e-11
Ba38	138	56	4.69e-09		Eu51	151	63	9.59e-12
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	1.12e-11
La39	139	57	5.08e-10		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	8.22e-10		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	2.04e-10		Gd52	152	64	4.17e-13
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	8.06e-12
Pr41	141	59	1.10e-10		Gd55	155	64	1.42e-11
Pr42	142	59	0.00e+00		Gd56	156	64	3.32e-11
Pr43	143	59	0.00e+00		Gd57	157	64	1.78e-11
Pr45	145	59	0.00e+00		Gd58	158	64	5.65e-11
Nd42	142	60	1.53e-10		Gd59	159	64	0.00e+00
Nd43	143	60	5.44e-11		Gd60	160	64	2.36e-11
Nd44	144	60	2.00e-10		Tb59	159	65	1.77e-11
Nd45	145	60	4.02e-11		Tb60	160	65	0.00e+00
Nd46	146	60	1.75e-10		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	1.65e-11
Nd48	148	60	4.45e-11		Dy61	161	66	1.70e-11
Nd49	149	60	0.00e+00		Dy62	162	66	4.81e-11
Nd50	150	60	6.39e-12		Dy63	163	66	2.18e-11
Pm45	145	61	0.00e+00		Dy64	164	66	6.82e-11
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00

Dy66	166	66	0.00e+00		Ta81	181	73	2.99e-11
Ho63	163	67	4.17e-13		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta83	183	73	0.00e+00
Ho65	165	67	2.50e-11		Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00		W180	180	74	0.00e+00
Er64	164	68	7.26e-12		W181	181	74	0.00e+00
Er65	165	68	0.00e+00		W182	182	74	4.51e-11
Er66	166	68	3.23e-11		W183	183	74	3.58e-11
Er67	167	68	1.82e-11		W184	184	74	8.67e-11
Er68	168	68	5.41e-11		W185	185	74	0.00e+00
Er69	169	68	0.00e+00		W186	186	74	5.16e-11
Er70	170	68	3.48e-11		W187	187	74	0.00e+00
Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	2.06e-11
Tm69	169	69	1.47e-11		Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00		Re87	187	75	1.65e-11
Tm71	171	69	0.00e+00		Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00		Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00		Os86	186	76	2.42e-11
Yb70	170	70	1.31e-11		Os87	187	76	7.86e-12
Yb71	171	70	2.74e-11		Os88	188	76	8.26e-11
Yb72	172	70	5.55e-11		Os89	189	76	2.87e-11
Yb73	173	70	2.91e-11		Os90	190	76	1.02e-10
Yb74	174	70	1.22e-10		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	9.65e-11
Yb76	176	70	4.02e-11		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	2.03e-11		Ir91	191	77	4.42e-11
Lu76	176	71	2.80e-12		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	7.19e-11
Hf76	176	72	2.06e-11		Ir94	194	77	0.00e+00
Hf77	177	72	1.83e-11		Ir95	195	77	0.00e+00
Hf78	178	72	6.87e-11		Pt92	192	78	1.96e-11
Hf79	179	72	2.51e-11		Pt93	193	78	0.00e+00
Hf80	180	72	1.28e-10		Pt94	194	78	1.68e-10
Hf81	181	72	0.00e+00		Pt95	195	78	9.70e-11
Hf82	182	72	1.51e-11		Pt96	196	78	1.84e-10
Hf83	183	72	0.00e+00		Pt97	197	78	0.00e+00
Hf84	184	72	0.00e+00		Pt98	198	78	4.25e-11
Ta79	179	73	0.00e+00		Au97	197	79	6.67e-11
Ta80	180	73	0.00e+00		Au98	198	79	0.00e+00

Isotope	A	Z	YIELD
Au99	199	79	0.00e+00
Hg98	198	80	1.21e-10
Hg99	199	80	7.16e-11
Hg00	200	80	2.13e-10
Hg01	201	80	9.37e-11
Hg02	202	80	3.41e-10
Hg03	203	80	0.00e+00
Hg04	204	80	3.93e-11
Tl03	203	81	1.60e-10
Tl04	204	81	0.00e+00
Tl05	205	81	2.14e-10
Pb04	204	82	1.68e-10
Pb05	205	82	3.17e-11
Pb06	206	82	2.44e-09
Pb07	207	82	2.16e-09
Pb08	208	82	4.21e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	1.36e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M_α = 4.00; Z = 0.000300 [α/Fe]=0.5; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	2.16e+00
He4	4	2	9.41e-01
C12	12	6	8.60e-03
C13	13	6	2.35e-05
C14	14	6	1.95e-09
N14	14	7	2.55e-04
N15	15	7	6.71e-08
O16	16	8	1.38e-03
O17	17	8	1.18e-05
O18	18	8	5.09e-07
F18	18	9	0.00e+00
F19	19	9	3.17e-07

Isotope	A	Z	YIELD
Ne20	20	10	2.22e-04
Ne21	21	10	4.55e-07
Ne22	22	10	1.52e-04
Na22	22	11	0.00e+00
Na23	23	11	1.44e-05
Na24	24	11	0.00e+00
Mg24	24	12	1.14e-04
Mg25	25	12	1.54e-05
Mg26	26	12	2.63e-05
Al26	26	13	8.69e-09
Al27	27	13	4.87e-06
Si28	28	14	1.52e-04
Si29	29	14	3.12e-06
Si30	30	14	2.68e-06
Si31	31	14	0.00e+00
Si32	32	14	4.92e-11
P31	31	15	8.15e-07
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	7.79e-05
S33	33	16	2.12e-07
S34	34	16	1.32e-06
S35	35	16	0.00e+00
S36	36	16	1.42e-08
Cl35	35	17	2.54e-07
Cl36	36	17	2.14e-10
Cl37	37	17	9.65e-08
Ar36	36	18	1.78e-05
Ar37	37	18	0.00e+00
Ar38	38	18	1.13e-06
Ar39	39	18	1.49e-10
Ar40	40	18	1.49e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	2.46e-07
K40	40	19	4.73e-10
K41	41	19	2.06e-08
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	1.34e-05
Ca41	41	20	3.67e-10

Ca42	42	20	3.40e-08		Ni64	64	28	1.39e-07
Ca43	43	20	7.60e-09		Ni65	65	28	0.00e+00
Ca44	44	20	1.06e-07		Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00		Cu63	63	29	8.43e-08
Ca46	46	20	3.36e-09		Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00		Cu65	65	29	3.96e-08
Ca48	48	20	9.93e-09		Cu66	66	29	0.00e+00
Sc45	45	21	4.44e-09		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	7.11e-08
Sc47	47	21	0.00e+00		Zn65	65	30	0.00e+00
Sc48	48	21	0.00e+00		Zn66	66	30	5.69e-08
Sc49	49	21	0.00e+00		Zn67	67	30	9.61e-09
Ti46	46	22	1.74e-08		Zn68	68	30	5.03e-08
Ti47	47	22	1.58e-08		Zn69	69	30	0.00e+00
Ti48	48	22	1.54e-07		Zn70	70	30	1.41e-09
Ti49	49	22	1.26e-08		Ga69	69	31	5.73e-09
Ti50	50	22	1.57e-08		Ga70	70	31	0.00e+00
V50	50	23	6.49e-11		Ga71	71	31	3.87e-09
V51	51	23	2.68e-08		Ga72	72	31	0.00e+00
Cr50	50	24	5.16e-08		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	7.74e-09
Cr52	52	24	1.04e-06		Ge71	71	32	0.00e+00
Cr53	53	24	1.20e-07		Ge72	72	32	9.27e-09
Cr54	54	24	3.52e-08		Ge73	73	32	2.71e-09
Mn55	55	25	9.06e-07		Ge74	74	32	1.47e-08
Mn56	56	25	0.00e+00		Ge75	75	32	0.00e+00
Fe54	54	26	4.95e-06		Ge76	76	32	1.83e-09
Fe55	55	26	0.00e+00		Ge77	77	32	0.00e+00
Fe56	56	26	8.08e-05		As75	75	33	1.73e-09
Fe57	57	26	1.94e-06		As76	76	33	0.00e+00
Fe58	58	26	4.24e-07		As77	77	33	0.00e+00
Fe59	59	26	0.00e+00		Se76	76	34	2.88e-09
Fe60	60	26	1.45e-07		Se77	77	34	1.54e-09
Co59	59	27	3.07e-07		Se78	78	34	7.55e-09
Co60	60	27	3.01e-13		Se79	79	34	9.15e-10
Ni58	58	28	3.41e-06		Se80	80	34	1.13e-08
Ni59	59	28	1.95e-10		Se81	81	34	0.00e+00
Ni60	60	28	1.40e-06		Se82	82	34	1.60e-09
Ni61	61	28	8.77e-08		Br79	79	35	1.05e-09
Ni62	62	28	2.65e-07		Br80	80	35	0.00e+00
Ni63	63	28	1.85e-10		Br81	81	35	1.96e-09

Br82	82	35	0.00e+00	Mo92	92	42	6.93e-11
Br83	83	35	0.00e+00	Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00	Mo94	94	42	4.42e-11
Kr80	80	36	2.65e-10	Mo95	95	42	3.00e-10
Kr81	81	36	2.24e-11	Mo96	96	42	4.04e-10
Kr82	82	36	3.65e-09	Mo97	97	42	2.08e-10
Kr83	83	36	1.97e-09	Mo98	98	42	6.43e-10
Kr84	84	36	1.15e-08	Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00	Mo00	100	42	1.13e-10
Kr86	86	36	1.23e-08	Tc97	97	43	0.00e+00
Kr87	87	36	0.00e+00	Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00	Tc99	99	43	6.17e-11
Rb85	85	37	3.10e-09	Ru96	96	44	1.74e-11
Rb86	86	37	0.00e+00	Ru97	97	44	0.00e+00
Rb87	87	37	5.53e-09	Ru98	98	44	6.01e-12
Rb88	88	37	0.00e+00	Ru99	99	44	5.43e-11
Sr86	86	38	1.37e-09	Ru00	100	44	2.71e-10
Sr87	87	38	6.97e-10	Ru01	101	44	1.12e-10
Sr88	88	38	1.45e-08	Ru02	102	44	4.43e-10
Sr89	89	38	0.00e+00	Ru03	103	44	0.00e+00
Sr90	90	38	8.74e-13	Ru04	104	44	1.18e-10
Sr91	91	38	0.00e+00	Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00	Ru06	106	44	0.00e+00
Y89	89	39	3.84e-09	Rh03	103	45	1.30e-10
Y90	90	39	0.00e+00	Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00	Pd04	104	46	1.89e-10
Y92	92	39	0.00e+00	Pd05	105	46	1.10e-10
Y93	93	39	0.00e+00	Pd06	106	46	2.89e-10
Zr90	90	40	3.37e-09	Pd07	107	46	4.08e-11
Zr91	91	40	9.82e-10	Pd08	108	46	3.32e-10
Zr92	92	40	1.57e-09	Pd09	109	46	0.00e+00
Zr93	93	40	4.74e-10	Pd10	110	46	8.35e-11
Zr94	94	40	1.90e-09	Ag07	107	47	4.92e-11
Zr95	95	40	0.00e+00	Ag09	109	47	1.22e-10
Zr96	96	40	1.12e-09	Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00	Cd08	108	48	2.77e-12
Nb93	93	41	1.40e-10	Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00	Cd10	110	48	2.31e-10
Nb95	95	41	0.00e+00	Cd11	111	48	1.13e-10
Nb96	96	41	0.00e+00	Cd12	112	48	3.50e-10
Nb97	97	41	0.00e+00	Cd13	113	48	1.18e-10

Cd14	114	48	4.77e-10		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	5.06e-10
Cd16	116	48	1.66e-10		Xe35	135	54	0.00e+00
In13	113	49	1.59e-12		Xe36	136	54	3.72e-10
In15	115	49	1.16e-10		Cs33	133	55	1.70e-10
Sn14	114	50	5.03e-12		Cs34	134	55	0.00e+00
Sn15	115	50	2.61e-12		Cs35	135	55	9.49e-11
Sn16	116	50	5.39e-10		Cs36	136	55	0.00e+00
Sn17	117	50	2.15e-10		Cs37	137	55	5.60e-13
Sn18	118	50	9.09e-10		Ba34	134	56	1.77e-10
Sn19	119	50	2.81e-10		Ba35	135	56	1.19e-10
Sn20	120	50	1.34e-09		Ba36	136	56	5.64e-10
Sn21	121	50	0.00e+00		Ba37	137	56	1.18e-09
Sn22	122	50	5.19e-10		Ba38	138	56	6.10e-09
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00
Sn24	124	50	2.37e-10		Ba40	140	56	0.00e+00
Sb21	121	51	1.27e-10		La39	139	57	7.45e-10
Sb22	122	51	0.00e+00		La40	140	57	0.00e+00
Sb23	123	51	8.50e-11		Ce40	140	58	1.68e-09
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	3.43e-10
Te22	122	52	1.43e-10		Ce43	143	58	0.00e+00
Te23	123	52	4.82e-11		Ce44	144	58	0.00e+00
Te24	124	52	3.35e-10		Pr41	141	59	2.15e-10
Te25	125	52	1.78e-10		Pr42	142	59	0.00e+00
Te26	126	52	7.16e-10		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	4.41e-10		Nd42	142	60	3.41e-10
Te30	130	52	3.80e-10		Nd43	143	60	1.09e-10
I127	127	53	2.98e-10		Nd44	144	60	3.72e-10
I128	128	53	0.00e+00		Nd45	145	60	7.81e-11
I129	129	53	3.72e-12		Nd46	146	60	3.27e-10
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	7.92e-11
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	1.56e-11
Xe28	128	54	1.79e-10		Pm45	145	61	0.00e+00
Xe29	129	54	4.08e-10		Pm46	146	61	0.00e+00
Xe30	130	54	3.65e-10		Pm47	147	61	0.00e+00
Xe31	131	54	3.65e-10		Pm48	148	61	0.00e+00
Xe32	132	54	8.99e-10		Pm49	149	61	0.00e+00

Pm50	150	61	0.00e+00	Ho65	165	67	5.51e-11
Pm51	151	61	0.00e+00	Ho66	166	67	0.00e+00
Sm44	144	62	2.05e-12	Er64	164	68	1.36e-11
Sm45	145	62	0.00e+00	Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00	Er66	166	68	6.87e-11
Sm47	147	62	4.59e-11	Er67	167	68	3.96e-11
Sm48	148	62	7.22e-11	Er68	168	68	1.05e-10
Sm49	149	62	2.56e-11	Er69	169	68	0.00e+00
Sm50	150	62	6.84e-11	Er70	170	68	6.18e-11
Sm51	151	62	0.00e+00	Er71	171	68	0.00e+00
Sm52	152	62	7.54e-11	Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00	Tm69	169	69	3.03e-11
Sm54	154	62	4.70e-11	Tm70	170	69	0.00e+00
Eu51	151	63	2.19e-11	Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00	Tm72	172	69	0.00e+00
Eu53	153	63	2.54e-11	Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00	Yb70	170	70	2.46e-11
Eu55	155	63	0.00e+00	Yb71	171	70	5.20e-11
Eu56	156	63	0.00e+00	Yb72	172	70	1.06e-10
Eu57	157	63	0.00e+00	Yb73	173	70	5.65e-11
Gd52	152	64	8.15e-13	Yb74	174	70	2.26e-10
Gd53	153	64	0.00e+00	Yb75	175	70	0.00e+00
Gd54	154	64	1.56e-11	Yb76	176	70	6.76e-11
Gd55	155	64	3.04e-11	Yb77	177	70	0.00e+00
Gd56	156	64	6.65e-11	Lu75	175	71	3.98e-11
Gd57	157	64	3.74e-11	Lu76	176	71	1.47e-11
Gd58	158	64	1.10e-10	Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00	Hf76	176	72	1.46e-11
Gd60	160	64	4.70e-11	Hf77	177	72	3.71e-11
Tb59	159	65	3.82e-11	Hf78	178	72	1.28e-10
Tb60	160	65	0.00e+00	Hf79	179	72	4.73e-11
Tb61	161	65	0.00e+00	Hf80	180	72	2.32e-10
Dy60	160	66	3.10e-11	Hf81	181	72	0.00e+00
Dy61	161	66	3.85e-11	Hf82	182	72	2.25e-11
Dy62	162	66	9.69e-11	Hf83	183	72	0.00e+00
Dy63	163	66	4.97e-11	Hf84	184	72	0.00e+00
Dy64	164	66	1.33e-10	Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00	Ta80	180	73	0.00e+00
Dy66	166	66	0.00e+00	Ta81	181	73	5.40e-11
Ho63	163	67	8.05e-13	Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00	Ta83	183	73	0.00e+00

Isotope	A	Z	
Ta84	184	73	0.00e+00
W180	180	74	0.00e+00
W181	181	74	0.00e+00
W182	182	74	8.47e-11
W183	183	74	6.37e-11
W184	184	74	1.55e-10
W185	185	74	0.00e+00
W186	186	74	9.03e-11
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	3.75e-11
Re86	186	75	0.00e+00
Re87	187	75	3.15e-11
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	4.45e-11
Os87	187	76	1.58e-11
Os88	188	76	1.50e-10
Os89	189	76	6.39e-11
Os90	190	76	1.95e-10
Os91	191	76	0.00e+00
Os92	192	76	1.92e-10
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	1.09e-10
Ir92	192	77	0.00e+00
Ir93	193	77	1.79e-10
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	3.49e-11
Pt93	193	78	0.00e+00
Pt94	194	78	3.33e-10
Pt95	195	78	2.27e-10
Pt96	196	78	3.43e-10
Pt97	197	78	0.00e+00
Pt98	198	78	7.38e-11
Au97	197	79	1.36e-10
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.98e-10
Hg99	199	80	1.21e-10

Isotope	A	Z	
Hg00	200	80	3.36e-10
Hg01	201	80	1.49e-10
Hg02	202	80	5.28e-10
Hg03	203	80	0.00e+00
Hg04	204	80	5.18e-11
Tl03	203	81	2.46e-10
Tl04	204	81	0.00e+00
Tl05	205	81	3.45e-10
Pb04	204	82	2.69e-10
Pb05	205	82	3.76e-11
Pb06	206	82	3.91e-09
Pb07	207	82	4.09e-09
Pb08	208	82	9.56e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	2.61e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 4.00; Z = 0.001000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	2.18e+00
He4	4	2	9.24e-01
C12	12	6	5.97e-03
C13	13	6	2.33e-05
C14	14	6	8.96e-08
N14	14	7	5.62e-04
N15	15	7	2.53e-07
O16	16	8	1.39e-03
O17	17	8	1.12e-05
O18	18	8	1.70e-06
F18	18	9	0.00e+00
F19	19	9	1.07e-07
Ne20	20	10	2.36e-04
Ne21	21	10	8.05e-07
Ne22	22	10	1.17e-04

Na22	22	11	0.00e+00
Na23	23	11	2.00e-05
Na24	24	11	0.00e+00
Mg24	24	12	1.20e-04
Mg25	25	12	2.13e-05
Mg26	26	12	2.62e-05
Al26	26	13	1.63e-08
Al27	27	13	1.45e-05
Si28	28	14	1.60e-04
Si29	29	14	8.64e-06
Si30	30	14	6.12e-06
Si31	31	14	0.00e+00
Si32	32	14	2.00e-12
P31	31	15	1.66e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	8.24e-05
S33	33	16	6.77e-07
S34	34	16	3.98e-06
S35	35	16	0.00e+00
S36	36	16	2.40e-08
Cl35	35	17	8.43e-07
Cl36	36	17	2.28e-10
Cl37	37	17	2.96e-07
Ar36	36	18	1.89e-05
Ar37	37	18	0.00e+00
Ar38	38	18	3.66e-06
Ar39	39	18	2.90e-11
Ar40	40	18	1.38e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	7.90e-07
K40	40	19	1.33e-09
K41	41	19	6.17e-08
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	1.41e-05
Ca41	41	20	3.85e-10
Ca42	42	20	1.03e-07
Ca43	43	20	2.22e-08
Ca44	44	20	3.39e-07

Ca45	45	20	0.00e+00
Ca46	46	20	2.32e-09
Ca47	47	20	0.00e+00
Ca48	48	20	3.29e-08
Sc45	45	21	1.04e-08
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	5.57e-08
Ti47	47	22	5.10e-08
Ti48	48	22	5.13e-07
Ti49	49	22	3.98e-08
Ti50	50	22	4.28e-08
V50	50	23	2.17e-10
V51	51	23	8.90e-08
Cr50	50	24	1.73e-07
Cr51	51	24	0.00e+00
Cr52	52	24	3.48e-06
Cr53	53	24	4.02e-07
Cr54	54	24	1.12e-07
Mn55	55	25	3.03e-06
Mn56	56	25	0.00e+00
Fe54	54	26	1.66e-05
Fe55	55	26	0.00e+00
Fe56	56	26	2.71e-04
Fe57	57	26	6.50e-06
Fe58	58	26	1.31e-06
Fe59	59	26	0.00e+00
Fe60	60	26	1.95e-07
Co59	59	27	9.61e-07
Co60	60	27	4.10e-13
Ni58	58	28	1.14e-05
Ni59	59	28	1.11e-09
Ni60	60	28	4.64e-06
Ni61	61	28	2.53e-07
Ni62	62	28	7.72e-07
Ni63	63	28	5.53e-11
Ni64	64	28	2.96e-07
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00

Cu63	63	29	2.08e-07		Kr80	80	36	7.27e-10
Cu64	64	29	0.00e+00		Kr81	81	36	3.14e-11
Cu65	65	29	9.25e-08		Kr82	82	36	6.55e-09
Cu66	66	29	0.00e+00		Kr83	83	36	4.44e-09
Cu67	67	29	0.00e+00		Kr84	84	36	2.41e-08
Zn64	64	30	2.38e-07		Kr85	85	36	0.00e+00
Zn65	65	30	0.00e+00		Kr86	86	36	1.73e-08
Zn66	66	30	1.61e-07		Kr87	87	36	0.00e+00
Zn67	67	30	2.56e-08		Kr88	88	36	0.00e+00
Zn68	68	30	1.26e-07		Rb85	85	37	5.29e-09
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	3.72e-09		Rb87	87	37	6.76e-09
Ga69	69	31	1.32e-08		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	2.56e-09
Ga71	71	31	8.95e-09		Sr87	87	38	1.56e-09
Ga72	72	31	0.00e+00		Sr88	88	38	2.96e-08
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	1.70e-08		Sr90	90	38	2.31e-13
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	2.11e-08		Sr92	92	38	0.00e+00
Ge73	73	32	6.08e-09		Y89	89	39	7.96e-09
Ge74	74	32	3.11e-08		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	4.69e-09		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	3.93e-09		Zr90	90	40	7.77e-09
As76	76	33	0.00e+00		Zr91	91	40	2.15e-09
As77	77	33	0.00e+00		Zr92	92	40	3.47e-09
Se76	76	34	5.53e-09		Zr93	93	40	9.08e-10
Se77	77	34	3.45e-09		Zr94	94	40	4.20e-09
Se78	78	34	1.43e-08		Zr95	95	40	0.00e+00
Se79	79	34	1.17e-09		Zr96	96	40	2.00e-09
Se80	80	34	2.43e-08		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	4.50e-10
Se82	82	34	3.25e-09		Nb94	94	41	0.00e+00
Br79	79	35	3.02e-09		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	4.15e-09		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	2.32e-10
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	1.48e-10

Mo95	95	42	6.80e-10
Mo96	96	42	9.19e-10
Mo97	97	42	4.57e-10
Mo98	98	42	1.36e-09
Mo99	99	42	0.00e+00
Mo00	100	42	2.66e-10
Tc97	97	43	0.00e+00
Tc98	98	43	0.00e+00
Tc99	99	43	1.12e-10
Ru96	96	44	5.84e-11
Ru97	97	44	0.00e+00
Ru98	98	44	2.01e-11
Ru99	99	44	1.62e-10
Ru00	100	44	5.62e-10
Ru01	101	44	2.90e-10
Ru02	102	44	9.64e-10
Ru03	103	44	0.00e+00
Ru04	104	44	2.99e-10
Ru05	105	44	0.00e+00
Ru06	106	44	0.00e+00
Rh03	103	45	3.38e-10
Rh05	105	45	0.00e+00
Pd04	104	46	3.92e-10
Pd05	105	46	2.92e-10
Pd06	106	46	6.34e-10
Pd07	107	46	7.31e-11
Pd08	108	46	7.11e-10
Pd09	109	46	0.00e+00
Pd10	110	46	1.88e-10
Ag07	107	47	1.64e-10
Ag09	109	47	2.90e-10
Ag11	111	47	0.00e+00
Cd08	108	48	9.24e-12
Cd09	109	48	0.00e+00
Cd10	110	48	4.81e-10
Cd11	111	48	2.65e-10
Cd12	112	48	7.45e-10
Cd13	113	48	2.73e-10
Cd14	114	48	9.97e-10
Cd15	115	48	0.00e+00
Cd16	116	48	2.98e-10

In13	113	49	5.32e-12
In15	115	49	2.61e-10
Sn14	114	50	1.69e-11
Sn15	115	50	8.74e-12
Sn16	116	50	1.17e-09
Sn17	117	50	4.78e-10
Sn18	118	50	1.95e-09
Sn19	119	50	6.20e-10
Sn20	120	50	2.97e-09
Sn21	121	50	0.00e+00
Sn22	122	50	9.52e-10
Sn23	123	50	0.00e+00
Sn24	124	50	3.74e-10
Sb21	121	51	3.04e-10
Sb22	122	51	0.00e+00
Sb23	123	51	1.99e-10
Sb24	124	51	0.00e+00
Sb25	125	51	0.00e+00
Te22	122	52	3.24e-10
Te23	123	52	1.10e-10
Te24	124	52	7.32e-10
Te25	125	52	4.51e-10
Te26	126	52	1.70e-09
Te27	127	52	0.00e+00
Te28	128	52	1.34e-09
Te30	130	52	1.27e-09
I127	127	53	9.02e-10
I128	128	53	0.00e+00
I129	129	53	6.11e-12
I130	130	53	0.00e+00
I131	131	53	0.00e+00
I132	132	53	0.00e+00
I133	133	53	0.00e+00
Xe28	128	54	3.98e-10
Xe29	129	54	1.28e-09
Xe30	130	54	8.14e-10
Xe31	131	54	1.11e-09
Xe32	132	54	2.31e-09
Xe33	133	54	0.00e+00
Xe34	134	54	1.10e-09
Xe35	135	54	0.00e+00

Xe36	136	54	5.51e-10		Sm45	145	62	0.00e+00
Cs33	133	55	4.63e-10		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	1.25e-10
Cs35	135	55	1.81e-10		Sm48	148	62	1.95e-10
Cs36	136	55	0.00e+00		Sm49	149	62	7.22e-11
Cs37	137	55	2.22e-13		Sm50	150	62	1.78e-10
Ba34	134	56	4.19e-10		Sm51	151	62	0.00e+00
Ba35	135	56	3.46e-10		Sm52	152	62	2.06e-10
Ba36	136	56	1.35e-09		Sm53	153	62	0.00e+00
Ba37	137	56	2.37e-09		Sm54	154	62	1.28e-10
Ba38	138	56	1.64e-08		Eu51	151	63	6.57e-11
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	7.53e-11
La39	139	57	2.04e-09		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	4.96e-09		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	8.81e-10		Gd52	152	64	2.24e-12
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	4.17e-11
Pr41	141	59	6.31e-10		Gd55	155	64	8.73e-11
Pr42	142	59	0.00e+00		Gd56	156	64	1.83e-10
Pr43	143	59	0.00e+00		Gd57	157	64	1.06e-10
Pr45	145	59	0.00e+00		Gd58	158	64	2.94e-10
Nd42	142	60	1.04e-09		Gd59	159	64	0.00e+00
Nd43	143	60	3.12e-10		Gd60	160	64	1.30e-10
Nd44	144	60	1.01e-09		Tb59	159	65	1.09e-10
Nd45	145	60	2.17e-10		Tb60	160	65	0.00e+00
Nd46	146	60	8.70e-10		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	7.97e-11
Nd48	148	60	2.04e-10		Dy61	161	66	1.13e-10
Nd49	149	60	0.00e+00		Dy62	162	66	2.63e-10
Nd50	150	60	4.91e-11		Dy63	163	66	1.47e-10
Pm45	145	61	0.00e+00		Dy64	164	66	3.52e-10
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	2.04e-12
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	1.58e-10
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	6.87e-12		Er64	164	68	3.49e-11

Er65	165	68	0.00e+00
Er66	166	68	1.92e-10
Er67	167	68	1.12e-10
Er68	168	68	2.72e-10
Er69	169	68	0.00e+00
Er70	170	68	1.52e-10
Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	8.26e-11
Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00
Tm73	173	69	0.00e+00
Yb70	170	70	6.22e-11
Yb71	171	70	1.33e-10
Yb72	172	70	2.69e-10
Yb73	173	70	1.46e-10
Yb74	174	70	5.56e-10
Yb75	175	70	0.00e+00
Yb76	176	70	1.58e-10
Yb77	177	70	0.00e+00
Lu75	175	71	1.04e-10
Lu76	176	71	1.22e-11
Lu77	177	71	0.00e+00
Hf76	176	72	9.19e-11
Hf77	177	72	9.28e-11
Hf78	178	72	3.05e-10
Hf79	179	72	1.15e-10
Hf80	180	72	5.48e-10
Hf81	181	72	0.00e+00
Hf82	182	72	4.69e-11
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00
Ta81	181	73	1.29e-10
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	1.68e-13
W181	181	74	0.00e+00

W182	182	74	2.07e-10
W183	183	74	1.50e-10
W184	184	74	3.64e-10
W185	185	74	0.00e+00
W186	186	74	2.13e-10
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	9.09e-11
Re86	186	75	0.00e+00
Re87	187	75	8.08e-11
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	1.07e-10
Os87	187	76	4.15e-11
Os88	188	76	3.70e-10
Os89	189	76	1.84e-10
Os90	190	76	5.02e-10
Os91	191	76	0.00e+00
Os92	192	76	5.25e-10
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	3.36e-10
Ir92	192	77	0.00e+00
Ir93	193	77	5.55e-10
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	8.38e-11
Pt93	193	78	0.00e+00
Pt94	194	78	9.05e-10
Pt95	195	78	6.83e-10
Pt96	196	78	8.88e-10
Pt97	197	78	0.00e+00
Pt98	198	78	1.93e-10
Au97	197	79	3.76e-10
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	4.53e-10
Hg99	199	80	2.91e-10
Hg00	200	80	7.70e-10
Hg01	201	80	3.47e-10
Hg02	202	80	1.22e-09

Isotope	A	Z	YIELD
Hg03	203	80	0.00e+00
Hg04	204	80	1.17e-10
Tl03	203	81	5.70e-10
Tl04	204	81	0.00e+00
Tl05	205	81	8.74e-10
Pb04	204	82	6.42e-10
Pb05	205	82	6.90e-11
Pb06	206	82	8.11e-09
Pb07	207	82	9.45e-09
Pb08	208	82	1.94e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	4.61e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 4.00; Z = 0.002000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	2.18e+00
He4	4	2	9.22e-01
C12	12	6	6.39e-03
C13	13	6	3.53e-05
C14	14	6	9.83e-08
N14	14	7	1.04e-03
N15	15	7	5.33e-07
O16	16	8	2.67e-03
O17	17	8	1.64e-05
O18	18	8	3.61e-06
F18	18	9	0.00e+00
F19	19	9	2.08e-07
Ne20	20	10	4.76e-04
Ne21	21	10	1.61e-06
Ne22	22	10	1.63e-04
Na22	22	11	0.00e+00
Na23	23	11	3.09e-05
Na24	24	11	0.00e+00

Isotope	A	Z	YIELD
Mg24	24	12	2.40e-04
Mg25	25	12	3.84e-05
Mg26	26	12	4.58e-05
Al26	26	13	2.51e-08
Al27	27	13	2.89e-05
Si28	28	14	3.18e-04
Si29	29	14	1.70e-05
Si30	30	14	1.19e-05
Si31	31	14	0.00e+00
Si32	32	14	1.59e-12
P31	31	15	3.13e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	1.64e-04
S33	33	16	1.35e-06
S34	34	16	7.91e-06
S35	35	16	0.00e+00
S36	36	16	4.33e-08
Cl35	35	17	1.68e-06
Cl36	36	17	4.90e-10
Cl37	37	17	5.87e-07
Ar36	36	18	3.77e-05
Ar37	37	18	0.00e+00
Ar38	38	18	7.30e-06
Ar39	39	18	5.14e-11
Ar40	40	18	2.24e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	1.58e-06
K40	40	19	2.77e-09
K41	41	19	1.23e-07
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	2.83e-05
Ca41	41	20	9.82e-10
Ca42	42	20	2.04e-07
Ca43	43	20	4.40e-08
Ca44	44	20	6.74e-07
Ca45	45	20	0.00e+00
Ca46	46	20	3.36e-09
Ca47	47	20	0.00e+00

Ca48	48	20	6.56e-08
Sc45	45	21	2.03e-08
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	1.11e-07
Ti47	47	22	1.02e-07
Ti48	48	22	1.02e-06
Ti49	49	22	7.96e-08
Ti50	50	22	8.40e-08
V50	50	23	4.34e-10
V51	51	23	1.78e-07
Cr50	50	24	3.45e-07
Cr51	51	24	0.00e+00
Cr52	52	24	6.94e-06
Cr53	53	24	8.03e-07
Cr54	54	24	2.23e-07
Mn55	55	25	6.07e-06
Mn56	56	25	0.00e+00
Fe54	54	26	3.31e-05
Fe55	55	26	2.57e-13
Fe56	56	26	5.41e-04
Fe57	57	26	1.31e-05
Fe58	58	26	2.68e-06
Fe59	59	26	0.00e+00
Fe60	60	26	2.76e-07
Co59	59	27	1.92e-06
Co60	60	27	5.86e-13
Ni58	58	28	2.28e-05
Ni59	59	28	3.85e-09
Ni60	60	28	9.25e-06
Ni61	61	28	4.91e-07
Ni62	62	28	1.50e-06
Ni63	63	28	9.52e-11
Ni64	64	28	5.08e-07
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	3.83e-07
Cu64	64	29	0.00e+00
Cu65	65	29	1.63e-07

Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	4.74e-07
Zn65	65	30	0.00e+00
Zn66	66	30	3.05e-07
Zn67	67	30	4.74e-08
Zn68	68	30	2.26e-07
Zn69	69	30	0.00e+00
Zn70	70	30	6.99e-09
Ga69	69	31	2.26e-08
Ga70	70	31	0.00e+00
Ga71	71	31	1.53e-08
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	2.81e-08
Ge71	71	32	0.00e+00
Ge72	72	32	3.56e-08
Ge73	73	32	1.02e-08
Ge74	74	32	4.97e-08
Ge75	75	32	0.00e+00
Ge76	76	32	8.65e-09
Ge77	77	32	0.00e+00
As75	75	33	6.58e-09
As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	8.20e-09
Se77	77	34	5.73e-09
Se78	78	34	2.10e-08
Se79	79	34	1.02e-09
Se80	80	34	3.92e-08
Se81	81	34	0.00e+00
Se82	82	34	5.78e-09
Br79	79	35	5.74e-09
Br80	80	35	0.00e+00
Br81	81	35	6.66e-09
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	1.34e-09
Kr81	81	36	3.18e-11
Kr82	82	36	9.21e-09

Kr83	83	36	7.41e-09		Mo98	98	42	2.01e-09
Kr84	84	36	3.86e-08		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	4.42e-10
Kr86	86	36	2.05e-08		Tc97	97	43	0.00e+00
Kr87	87	36	0.00e+00		Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00		Tc99	99	43	1.35e-10
Rb85	85	37	7.13e-09		Ru96	96	44	1.17e-10
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	6.50e-09		Ru98	98	44	4.02e-11
Rb88	88	37	0.00e+00		Ru99	99	44	3.08e-10
Sr86	86	38	3.68e-09		Ru00	100	44	8.12e-10
Sr87	87	38	2.52e-09		Ru01	101	44	5.04e-10
Sr88	88	38	4.32e-08		Ru02	102	44	1.47e-09
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	1.87e-13		Ru04	104	44	5.24e-10
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	1.14e-08		Rh03	103	45	5.90e-10
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	5.76e-10
Y92	92	39	0.00e+00		Pd05	105	46	5.20e-10
Y93	93	39	0.00e+00		Pd06	106	46	9.93e-10
Zr90	90	40	1.22e-08		Pd07	107	46	9.35e-11
Zr91	91	40	3.24e-09		Pd08	108	46	1.10e-09
Zr92	92	40	5.24e-09		Pd09	109	46	0.00e+00
Zr93	93	40	1.17e-09		Pd10	110	46	3.12e-10
Zr94	94	40	6.31e-09		Ag07	107	47	3.28e-10
Zr95	95	40	0.00e+00		Ag09	109	47	4.84e-10
Zr96	96	40	2.35e-09		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	1.84e-11
Nb93	93	41	8.84e-10		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	7.22e-10
Nb95	95	41	0.00e+00		Cd11	111	48	4.40e-10
Nb96	96	41	0.00e+00		Cd12	112	48	1.16e-09
Nb97	97	41	0.00e+00		Cd13	113	48	4.49e-10
Mo92	92	42	4.63e-10		Cd14	114	48	1.54e-09
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	2.96e-10		Cd16	116	48	4.29e-10
Mo95	95	42	1.06e-09		In13	113	49	1.06e-11
Mo96	96	42	1.41e-09		In15	115	49	4.28e-10
Mo97	97	42	6.91e-10		Sn14	114	50	3.36e-11

Sn15	115	50	1.75e-11		Cs35	135	55	2.58e-10
Sn16	116	50	1.86e-09		Cs36	136	55	0.00e+00
Sn17	117	50	7.85e-10		Cs37	137	55	2.71e-13
Sn18	118	50	3.15e-09		Ba34	134	56	7.08e-10
Sn19	119	50	1.02e-09		Ba35	135	56	6.53e-10
Sn20	120	50	4.91e-09		Ba36	136	56	2.30e-09
Sn21	121	50	0.00e+00		Ba37	137	56	3.51e-09
Sn22	122	50	1.29e-09		Ba38	138	56	3.02e-08
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00
Sn24	124	50	5.22e-10		Ba40	140	56	0.00e+00
Sb21	121	51	5.23e-10		La39	139	57	3.80e-09
Sb22	122	51	0.00e+00		La40	140	57	0.00e+00
Sb23	123	51	3.33e-10		Ce40	140	58	9.92e-09
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	1.52e-09
Te22	122	52	5.41e-10		Ce43	143	58	0.00e+00
Te23	123	52	1.85e-10		Ce44	144	58	0.00e+00
Te24	124	52	1.18e-09		Pr41	141	59	1.25e-09
Te25	125	52	7.97e-10		Pr42	142	59	0.00e+00
Te26	126	52	2.88e-09		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	2.57e-09		Nd42	142	60	2.14e-09
Te30	130	52	2.54e-09		Nd43	143	60	6.03e-10
I127	127	53	1.73e-09		Nd44	144	60	1.87e-09
I128	128	53	0.00e+00		Nd45	145	60	4.08e-10
I129	129	53	7.80e-12		Nd46	146	60	1.60e-09
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	3.62e-10
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	9.64e-11
Xe28	128	54	6.41e-10		Pm45	145	61	0.00e+00
Xe29	129	54	2.49e-09		Pm46	146	61	0.00e+00
Xe30	130	54	1.31e-09		Pm47	147	61	0.00e+00
Xe31	131	54	2.12e-09		Pm48	148	61	0.00e+00
Xe32	132	54	4.08e-09		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	1.73e-09		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	1.37e-11
Xe36	136	54	8.65e-10		Sm45	145	62	0.00e+00
Cs33	133	55	8.45e-10		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	2.32e-10

Sm48	148	62	3.68e-10		Er68	168	68	4.96e-10
Sm49	149	62	1.35e-10		Er69	169	68	0.00e+00
Sm50	150	62	3.26e-10		Er70	170	68	2.67e-10
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	3.82e-10		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	1.52e-10
Sm54	154	62	2.35e-10		Tm70	170	69	0.00e+00
Eu51	151	63	1.26e-10		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00
Eu53	153	63	1.44e-10		Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00		Yb70	170	70	1.15e-10
Eu55	155	63	0.00e+00		Yb71	171	70	2.41e-10
Eu56	156	63	0.00e+00		Yb72	172	70	4.94e-10
Eu57	157	63	0.00e+00		Yb73	173	70	2.68e-10
Gd52	152	64	4.43e-12		Yb74	174	70	1.01e-09
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00
Gd54	154	64	7.87e-11		Yb76	176	70	2.79e-10
Gd55	155	64	1.64e-10		Yb77	177	70	0.00e+00
Gd56	156	64	3.41e-10		Lu75	175	71	1.92e-10
Gd57	157	64	2.00e-10		Lu76	176	71	2.21e-11
Gd58	158	64	5.42e-10		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	1.67e-10
Gd60	160	64	2.42e-10		Hf77	177	72	1.72e-10
Tb59	159	65	2.06e-10		Hf78	178	72	5.55e-10
Tb60	160	65	0.00e+00		Hf79	179	72	2.11e-10
Tb61	161	65	0.00e+00		Hf80	180	72	9.93e-10
Dy60	160	66	1.46e-10		Hf81	181	72	0.00e+00
Dy61	161	66	2.16e-10		Hf82	182	72	7.96e-11
Dy62	162	66	4.89e-10		Hf83	183	72	0.00e+00
Dy63	163	66	2.80e-10		Hf84	184	72	0.00e+00
Dy64	164	66	6.46e-10		Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00		Ta80	180	73	1.00e-13
Dy66	166	66	0.00e+00		Ta81	181	73	2.33e-10
Ho63	163	67	3.65e-12		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta83	183	73	0.00e+00
Ho65	165	67	3.02e-10		Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00		W180	180	74	3.35e-13
Er64	164	68	6.51e-11		W181	181	74	0.00e+00
Er65	165	68	0.00e+00		W182	182	74	3.87e-10
Er66	166	68	3.62e-10		W183	183	74	2.72e-10
Er67	167	68	2.12e-10		W184	184	74	6.67e-10

W185	185	74	0.00e+00
W186	186	74	3.83e-10
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	1.66e-10
Re86	186	75	0.00e+00
Re87	187	75	1.50e-10
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	2.05e-10
Os87	187	76	8.03e-11
Os88	188	76	6.90e-10
Os89	189	76	3.57e-10
Os90	190	76	9.51e-10
Os91	191	76	0.00e+00
Os92	192	76	9.94e-10
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	6.61e-10
Ir92	192	77	0.00e+00
Ir93	193	77	1.09e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	1.61e-10
Pt93	193	78	0.00e+00
Pt94	194	78	1.73e-09
Pt95	195	78	1.33e-09
Pt96	196	78	1.67e-09
Pt97	197	78	0.00e+00
Pt98	198	78	3.60e-10
Au97	197	79	7.18e-10
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	8.20e-10
Hg99	199	80	5.33e-10
Hg00	200	80	1.40e-09
Hg01	201	80	6.38e-10
Hg02	202	80	2.28e-09
Hg03	203	80	0.00e+00
Hg04	204	80	2.10e-10
Tl03	203	81	1.07e-09

Tl04	204	81	0.00e+00
Tl05	205	81	1.75e-09
Pb04	204	82	1.24e-09
Pb05	205	82	1.23e-10
Pb06	206	82	1.44e-08
Pb07	207	82	1.80e-08
Pb08	208	82	3.00e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	6.37e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 4.00; Z = 0.003000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	2.19e+00
He4	4	2	9.34e-01
C12	12	6	4.93e-03
C13	13	6	4.68e-05
C14	14	6	1.12e-07
N14	14	7	1.50e-03
N15	15	7	8.36e-07
O16	16	8	3.96e-03
O17	17	8	2.05e-05
O18	18	8	5.71e-06
F18	18	9	0.00e+00
F19	19	9	3.02e-07
Ne20	20	10	7.23e-04
Ne21	21	10	2.55e-06
Ne22	22	10	1.55e-04
Na22	22	11	0.00e+00
Na23	23	11	4.05e-05
Na24	24	11	0.00e+00
Mg24	24	12	3.63e-04
Mg25	25	12	5.05e-05
Mg26	26	12	6.11e-05

Al26	26	13	3.54e-08		Sc47	47	21	0.00e+00
Al27	27	13	4.35e-05		Sc48	48	21	0.00e+00
Si28	28	14	4.77e-04		Sc49	49	21	0.00e+00
Si29	29	14	2.52e-05		Ti46	46	22	1.67e-07
Si30	30	14	1.73e-05		Ti47	47	22	1.54e-07
Si31	31	14	0.00e+00		Ti48	48	22	1.55e-06
Si32	32	14	3.77e-13		Ti49	49	22	1.20e-07
P31	31	15	4.58e-06		Ti50	50	22	1.24e-07
P32	32	15	0.00e+00		V50	50	23	6.57e-10
P33	33	15	0.00e+00		V51	51	23	2.69e-07
S32	32	16	2.49e-04		Cr50	50	24	5.23e-07
S33	33	16	2.04e-06		Cr51	51	24	0.00e+00
S34	34	16	1.18e-05		Cr52	52	24	1.05e-05
S35	35	16	0.00e+00		Cr53	53	24	1.22e-06
S36	36	16	5.77e-08		Cr54	54	24	3.25e-07
Cl35	35	17	2.55e-06		Mn55	55	25	9.18e-06
Cl36	36	17	5.79e-10		Mn56	56	25	0.00e+00
Cl37	37	17	8.85e-07		Fe54	54	26	5.02e-05
Ar36	36	18	5.70e-05		Fe55	55	26	6.99e-13
Ar37	37	18	0.00e+00		Fe56	56	26	8.18e-04
Ar38	38	18	1.10e-05		Fe57	57	26	1.97e-05
Ar39	39	18	3.70e-11		Fe58	58	26	3.46e-06
Ar40	40	18	2.58e-08		Fe59	59	26	0.00e+00
Ar41	41	18	0.00e+00		Fe60	60	26	9.85e-08
Ar42	42	18	0.00e+00		Co59	59	27	2.65e-06
K39	39	19	2.37e-06		Co60	60	27	2.11e-13
K40	40	19	4.10e-09		Ni58	58	28	3.45e-05
K41	41	19	1.84e-07		Ni59	59	28	7.91e-09
K42	42	19	0.00e+00		Ni60	60	28	1.39e-05
K43	43	19	0.00e+00		Ni61	61	28	6.71e-07
Ca40	40	20	4.28e-05		Ni62	62	28	2.10e-06
Ca41	41	20	1.29e-09		Ni63	63	28	6.10e-11
Ca42	42	20	3.05e-07		Ni64	64	28	6.06e-07
Ca43	43	20	6.55e-08		Ni65	65	28	0.00e+00
Ca44	44	20	1.02e-06		Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00		Cu63	63	29	4.84e-07
Ca46	46	20	2.94e-09		Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00		Cu65	65	29	2.16e-07
Ca48	48	20	9.91e-08		Cu66	66	29	0.00e+00
Sc45	45	21	2.94e-08		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	7.19e-07

Zn65	65	30	0.00e+00
Zn66	66	30	4.44e-07
Zn67	67	30	6.79e-08
Zn68	68	30	3.21e-07
Zn69	69	30	0.00e+00
Zn70	70	30	1.01e-08
Ga69	69	31	3.14e-08
Ga70	70	31	0.00e+00
Ga71	71	31	2.15e-08
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	3.86e-08
Ge71	71	32	0.00e+00
Ge72	72	32	5.03e-08
Ge73	73	32	1.43e-08
Ge74	74	32	7.02e-08
Ge75	75	32	0.00e+00
Ge76	76	32	1.27e-08
Ge77	77	32	0.00e+00
As75	75	33	9.46e-09
As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	1.14e-08
Se77	77	34	8.26e-09
Se78	78	34	2.97e-08
Se79	79	34	1.17e-09
Se80	80	34	5.74e-08
Se81	81	34	0.00e+00
Se82	82	34	8.45e-09
Br79	79	35	8.61e-09
Br80	80	35	0.00e+00
Br81	81	35	9.76e-09
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	2.02e-09
Kr81	81	36	4.89e-11
Kr82	82	36	1.34e-08
Kr83	83	36	1.10e-08
Kr84	84	36	5.79e-08
Kr85	85	36	0.00e+00

Kr86	86	36	2.88e-08
Kr87	87	36	0.00e+00
Kr88	88	36	0.00e+00
Rb85	85	37	1.05e-08
Rb86	86	37	0.00e+00
Rb87	87	37	8.42e-09
Rb88	88	37	0.00e+00
Sr86	86	38	5.80e-09
Sr87	87	38	4.10e-09
Sr88	88	38	7.20e-08
Sr89	89	38	0.00e+00
Sr90	90	38	2.00e-13
Sr91	91	38	0.00e+00
Sr92	92	38	0.00e+00
Y89	89	39	1.88e-08
Y90	90	39	0.00e+00
Y91	91	39	0.00e+00
Y92	92	39	0.00e+00
Y93	93	39	0.00e+00
Zr90	90	40	2.00e-08
Zr91	91	40	5.31e-09
Zr92	92	40	8.49e-09
Zr93	93	40	1.96e-09
Zr94	94	40	1.00e-08
Zr95	95	40	0.00e+00
Zr96	96	40	2.91e-09
Zr97	97	40	0.00e+00
Nb93	93	41	1.33e-09
Nb94	94	41	0.00e+00
Nb95	95	41	0.00e+00
Nb96	96	41	0.00e+00
Nb97	97	41	0.00e+00
Mo92	92	42	7.02e-10
Mo93	93	42	0.00e+00
Mo94	94	42	4.48e-10
Mo95	95	42	1.65e-09
Mo96	96	42	2.22e-09
Mo97	97	42	1.03e-09
Mo98	98	42	2.95e-09
Mo99	99	42	0.00e+00
Mo00	100	42	6.35e-10

Tc97	97	43	0.00e+00
Tc98	98	43	0.00e+00
Tc99	99	43	1.97e-10
Ru96	96	44	1.77e-10
Ru97	97	44	0.00e+00
Ru98	98	44	6.08e-11
Ru99	99	44	4.58e-10
Ru00	100	44	1.19e-09
Ru01	101	44	7.51e-10
Ru02	102	44	2.17e-09
Ru03	103	44	0.00e+00
Ru04	104	44	7.69e-10
Ru05	105	44	0.00e+00
Ru06	106	44	0.00e+00
Rh03	103	45	8.81e-10
Rh05	105	45	0.00e+00
Pd04	104	46	8.53e-10
Pd05	105	46	7.79e-10
Pd06	106	46	1.47e-09
Pd07	107	46	1.36e-10
Pd08	108	46	1.64e-09
Pd09	109	46	0.00e+00
Pd10	110	46	4.56e-10
Ag07	107	47	4.96e-10
Ag09	109	47	7.27e-10
Ag11	111	47	0.00e+00
Cd08	108	48	2.79e-11
Cd09	109	48	0.00e+00
Cd10	110	48	1.09e-09
Cd11	111	48	6.64e-10
Cd12	112	48	1.75e-09
Cd13	113	48	6.82e-10
Cd14	114	48	2.37e-09
Cd15	115	48	0.00e+00
Cd16	116	48	6.10e-10
In13	113	49	1.61e-11
In15	115	49	6.53e-10
Sn14	114	50	5.09e-11
Sn15	115	50	2.64e-11
Sn16	116	50	2.94e-09
Sn17	117	50	1.22e-09

Sn18	118	50	4.94e-09
Sn19	119	50	1.60e-09
Sn20	120	50	7.71e-09
Sn21	121	50	0.00e+00
Sn22	122	50	1.48e-09
Sn23	123	50	0.00e+00
Sn24	124	50	5.71e-10
Sb21	121	51	8.10e-10
Sb22	122	51	0.00e+00
Sb23	123	51	4.65e-10
Sb24	124	51	0.00e+00
Sb25	125	51	0.00e+00
Te22	122	52	8.54e-10
Te23	123	52	2.94e-10
Te24	124	52	1.77e-09
Te25	125	52	1.19e-09
Te26	126	52	4.31e-09
Te27	127	52	0.00e+00
Te28	128	52	3.83e-09
Te30	130	52	3.84e-09
I127	127	53	2.61e-09
I128	128	53	0.00e+00
I129	129	53	9.50e-12
I130	130	53	0.00e+00
I131	131	53	0.00e+00
I132	132	53	0.00e+00
I133	133	53	0.00e+00
Xe28	128	54	9.62e-10
Xe29	129	54	3.76e-09
Xe30	130	54	1.98e-09
Xe31	131	54	3.21e-09
Xe32	132	54	6.27e-09
Xe33	133	54	0.00e+00
Xe34	134	54	2.23e-09
Xe35	135	54	0.00e+00
Xe36	136	54	1.10e-09
Cs33	133	55	1.29e-09
Cs34	134	55	0.00e+00
Cs35	135	55	3.50e-10
Cs36	136	55	0.00e+00
Cs37	137	55	2.66e-13

Ba34	134	56	1.13e-09		Sm51	151	62	0.00e+00
Ba35	135	56	1.01e-09		Sm52	152	62	5.42e-10
Ba36	136	56	3.66e-09		Sm53	153	62	0.00e+00
Ba37	137	56	4.68e-09		Sm54	154	62	3.23e-10
Ba38	138	56	4.65e-08		Eu51	151	63	1.85e-10
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	2.10e-10
La39	139	57	5.79e-09		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	1.59e-08		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	1.75e-09		Gd52	152	64	6.44e-12
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	1.12e-10
Pr41	141	59	1.95e-09		Gd55	155	64	2.36e-10
Pr42	142	59	0.00e+00		Gd56	156	64	4.83e-10
Pr43	143	59	0.00e+00		Gd57	157	64	2.87e-10
Pr45	145	59	0.00e+00		Gd58	158	64	7.63e-10
Nd42	142	60	3.60e-09		Gd59	159	64	0.00e+00
Nd43	143	60	8.94e-10		Gd60	160	64	3.36e-10
Nd44	144	60	2.63e-09		Tb59	159	65	2.97e-10
Nd45	145	60	5.79e-10		Tb60	160	65	0.00e+00
Nd46	146	60	2.25e-09		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	2.03e-10
Nd48	148	60	4.81e-10		Dy61	161	66	3.15e-10
Nd49	149	60	0.00e+00		Dy62	162	66	6.92e-10
Nd50	150	60	1.41e-10		Dy63	163	66	4.08e-10
Pm45	145	61	0.00e+00		Dy64	164	66	9.09e-10
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	5.64e-12
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	4.37e-10
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	2.08e-11		Er64	164	68	9.03e-11
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	5.23e-10
Sm47	147	62	3.28e-10		Er67	167	68	3.06e-10
Sm48	148	62	5.35e-10		Er68	168	68	6.96e-10
Sm49	149	62	1.94e-10		Er69	169	68	0.00e+00
Sm50	150	62	4.55e-10		Er70	170	68	3.53e-10

Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	2.17e-10
Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00
Tm73	173	69	0.00e+00
Yb70	170	70	1.61e-10
Yb71	171	70	3.34e-10
Yb72	172	70	6.93e-10
Yb73	173	70	3.78e-10
Yb74	174	70	1.40e-09
Yb75	175	70	0.00e+00
Yb76	176	70	3.54e-10
Yb77	177	70	0.00e+00
Lu75	175	71	2.72e-10
Lu76	176	71	3.07e-11
Lu77	177	71	0.00e+00
Hf76	176	72	2.33e-10
Hf77	177	72	2.42e-10
Hf78	178	72	7.63e-10
Hf79	179	72	2.92e-10
Hf80	180	72	1.36e-09
Hf81	181	72	0.00e+00
Hf82	182	72	9.31e-11
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	1.38e-13
Ta81	181	73	3.19e-10
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	5.07e-13
W181	181	74	0.00e+00
W182	182	74	5.48e-10
W183	183	74	3.74e-10
W184	184	74	9.25e-10
W185	185	74	0.00e+00
W186	186	74	5.19e-10
W187	187	74	0.00e+00

W188	188	74	0.00e+00
Re85	185	75	2.30e-10
Re86	186	75	0.00e+00
Re87	187	75	2.11e-10
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	2.94e-10
Os87	187	76	1.18e-10
Os88	188	76	9.70e-10
Os89	189	76	5.23e-10
Os90	190	76	1.35e-09
Os91	191	76	0.00e+00
Os92	192	76	1.41e-09
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	9.84e-10
Ir92	192	77	0.00e+00
Ir93	193	77	1.62e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	2.29e-10
Pt93	193	78	0.00e+00
Pt94	194	78	2.46e-09
Pt95	195	78	1.97e-09
Pt96	196	78	2.36e-09
Pt97	197	78	0.00e+00
Pt98	198	78	4.93e-10
Au97	197	79	1.04e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.13e-09
Hg99	199	80	7.41e-10
Hg00	200	80	1.95e-09
Hg01	201	80	8.98e-10
Hg02	202	80	3.31e-09
Hg03	203	80	0.00e+00
Hg04	204	80	2.53e-10
Tl03	203	81	1.57e-09
Tl04	204	81	0.00e+00
Tl05	205	81	2.74e-09
Pb04	204	82	1.89e-09

Isotope	A	Z	YIELD
Pb05	205	82	1.45e-10
Pb06	206	82	1.97e-08
Pb07	207	82	2.57e-08
Pb08	208	82	2.86e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	5.04e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M_α = 4.00; Z = 0.006000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [M_α]
H	1	1	2.24e+00
He4	4	2	9.02e-01
C12	12	6	5.41e-03
C13	13	6	1.34e-04
C14	14	6	8.73e-08
N14	14	7	2.95e-03
N15	15	7	1.75e-06
O16	16	8	7.90e-03
O17	17	8	3.14e-05
O18	18	8	1.18e-05
F18	18	9	0.00e+00
F19	19	9	6.55e-07
Ne20	20	10	1.47e-03
Ne21	21	10	5.66e-06
Ne22	22	10	2.42e-04
Na22	22	11	0.00e+00
Na23	23	11	7.02e-05
Na24	24	11	0.00e+00
Mg24	24	12	7.32e-04
Mg25	25	12	9.72e-05
Mg26	26	12	1.18e-04
Al26	26	13	1.20e-07
Al27	27	13	8.85e-05
Si28	28	14	9.57e-04

Isotope	A	Z	YIELD
Si29	29	14	5.04e-05
Si30	30	14	3.45e-05
Si31	31	14	0.00e+00
Si32	32	14	1.24e-13
P31	31	15	9.08e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	5.02e-04
S33	33	16	4.12e-06
S34	34	16	2.38e-05
S35	35	16	0.00e+00
S36	36	16	1.09e-07
Cl35	35	17	5.14e-06
Cl36	36	17	1.21e-09
Cl37	37	17	1.78e-06
Ar36	36	18	1.15e-04
Ar37	37	18	0.00e+00
Ar38	38	18	2.22e-05
Ar39	39	18	3.69e-11
Ar40	40	18	5.09e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	4.78e-06
K40	40	19	8.33e-09
K41	41	19	3.69e-07
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	8.63e-05
Ca41	41	20	2.93e-09
Ca42	42	20	6.13e-07
Ca43	43	20	1.31e-07
Ca44	44	20	2.05e-06
Ca45	45	20	0.00e+00
Ca46	46	20	4.59e-09
Ca47	47	20	0.00e+00
Ca48	48	20	2.00e-07
Sc45	45	21	5.83e-08
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00

Ti46	46	22	3.38e-07		Zn68	68	30	6.33e-07
Ti47	47	22	3.10e-07		Zn69	69	30	0.00e+00
Ti48	48	22	3.13e-06		Zn70	70	30	2.02e-08
Ti49	49	22	2.42e-07		Ga69	69	31	6.19e-08
Ti50	50	22	2.48e-07		Ga70	70	31	0.00e+00
V50	50	23	1.33e-09		Ga71	71	31	4.38e-08
V51	51	23	5.43e-07		Ga72	72	31	0.00e+00
Cr50	50	24	1.06e-06		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	7.69e-08
Cr52	52	24	2.12e-05		Ge71	71	32	0.00e+00
Cr53	53	24	2.45e-06		Ge72	72	32	1.02e-07
Cr54	54	24	6.42e-07		Ge73	73	32	2.92e-08
Mn55	55	25	1.86e-05		Ge74	74	32	1.46e-07
Mn56	56	25	0.00e+00		Ge75	75	32	0.00e+00
Fe54	54	26	1.01e-04		Ge76	76	32	2.53e-08
Fe55	55	26	2.96e-12		Ge77	77	32	0.00e+00
Fe56	56	26	1.65e-03		As75	75	33	1.96e-08
Fe57	57	26	3.96e-05		As76	76	33	0.00e+00
Fe58	58	26	6.14e-06		As77	77	33	0.00e+00
Fe59	59	26	0.00e+00		Se76	76	34	2.43e-08
Fe60	60	26	2.72e-08		Se77	77	34	1.72e-08
Co59	59	27	5.05e-06		Se78	78	34	6.48e-08
Co60	60	27	0.00e+00		Se79	79	34	2.84e-09
Ni58	58	28	6.97e-05		Se80	80	34	1.23e-07
Ni59	59	28	2.79e-08		Se81	81	34	0.00e+00
Ni60	60	28	2.79e-05		Se82	82	34	1.69e-08
Ni61	61	28	1.29e-06		Br79	79	35	1.78e-08
Ni62	62	28	4.07e-06		Br80	80	35	0.00e+00
Ni63	63	28	3.23e-11		Br81	81	35	2.11e-08
Ni64	64	28	1.13e-06		Br82	82	35	0.00e+00
Ni65	65	28	0.00e+00		Br83	83	35	0.00e+00
Ni66	66	28	0.00e+00		Br84	84	35	0.00e+00
Cu63	63	29	8.82e-07		Kr80	80	36	4.46e-09
Cu64	64	29	0.00e+00		Kr81	81	36	2.64e-10
Cu65	65	29	4.19e-07		Kr82	82	36	3.24e-08
Cu66	66	29	0.00e+00		Kr83	83	36	2.43e-08
Cu67	67	29	0.00e+00		Kr84	84	36	1.31e-07
Zn64	64	30	1.45e-06		Kr85	85	36	0.00e+00
Zn65	65	30	0.00e+00		Kr86	86	36	6.10e-08
Zn66	66	30	8.84e-07		Kr87	87	36	0.00e+00
Zn67	67	30	1.34e-07		Kr88	88	36	0.00e+00

Rb85	85	37	2.37e-08		Ru96	96	44	3.56e-10
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	1.63e-08		Ru98	98	44	1.23e-10
Rb88	88	37	0.00e+00		Ru99	99	44	9.57e-10
Sr86	86	38	1.80e-08		Ru00	100	44	3.12e-09
Sr87	87	38	1.33e-08		Ru01	101	44	1.67e-09
Sr88	88	38	2.32e-07		Ru02	102	44	5.44e-09
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	2.25e-13		Ru04	104	44	1.60e-09
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	5.64e-08		Rh03	103	45	1.97e-09
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	2.31e-09
Y92	92	39	0.00e+00		Pd05	105	46	1.73e-09
Y93	93	39	0.00e+00		Pd06	106	46	3.69e-09
Zr90	90	40	5.78e-08		Pd07	107	46	4.16e-10
Zr91	91	40	1.53e-08		Pd08	108	46	4.20e-09
Zr92	92	40	2.33e-08		Pd09	109	46	0.00e+00
Zr93	93	40	6.09e-09		Pd10	110	46	9.78e-10
Zr94	94	40	2.70e-08		Ag07	107	47	1.00e-09
Zr95	95	40	0.00e+00		Ag09	109	47	1.73e-09
Zr96	96	40	4.68e-09		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	5.69e-11
Nb93	93	41	2.72e-09		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	2.93e-09
Nb95	95	41	0.00e+00		Cd11	111	48	1.59e-09
Nb96	96	41	0.00e+00		Cd12	112	48	4.47e-09
Nb97	97	41	0.00e+00		Cd13	113	48	1.65e-09
Mo92	92	42	1.42e-09		Cd14	114	48	6.10e-09
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	9.09e-10		Cd16	116	48	1.24e-09
Mo95	95	42	4.12e-09		In13	113	49	3.25e-11
Mo96	96	42	5.86e-09		In15	115	49	1.58e-09
Mo97	97	42	2.44e-09		Sn14	114	50	1.03e-10
Mo98	98	42	7.28e-09		Sn15	115	50	5.34e-11
Mo99	99	42	0.00e+00		Sn16	116	50	7.72e-09
Mo00	100	42	1.31e-09		Sn17	117	50	2.98e-09
Tc97	97	43	0.00e+00		Sn18	118	50	1.22e-08
Tc98	98	43	0.00e+00		Sn19	119	50	3.90e-09
Tc99	99	43	5.43e-10		Sn20	120	50	1.87e-08

Sn21	121	50	0.00e+00		Ba37	137	56	9.56e-09
Sn22	122	50	2.13e-09		Ba38	138	56	1.03e-07
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00
Sn24	124	50	1.02e-09		Ba40	140	56	0.00e+00
Sb21	121	51	1.86e-09		La39	139	57	1.26e-08
Sb22	122	51	0.00e+00		La40	140	57	0.00e+00
Sb23	123	51	8.86e-10		Ce40	140	58	3.60e-08
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	2.10e-09
Te22	122	52	2.10e-09		Ce43	143	58	0.00e+00
Te23	123	52	7.27e-10		Ce44	144	58	0.00e+00
Te24	124	52	4.15e-09		Pr41	141	59	4.10e-09
Te25	125	52	2.59e-09		Pr42	142	59	0.00e+00
Te26	126	52	9.91e-09		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	7.82e-09		Nd42	142	60	8.68e-09
Te30	130	52	7.76e-09		Nd43	143	60	1.81e-09
I127	127	53	5.44e-09		Nd44	144	60	5.15e-09
I128	128	53	0.00e+00		Nd45	145	60	1.14e-09
I129	129	53	1.78e-11		Nd46	146	60	4.51e-09
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	8.25e-10
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	2.77e-10
Xe28	128	54	2.34e-09		Pm45	145	61	0.00e+00
Xe29	129	54	7.76e-09		Pm46	146	61	0.00e+00
Xe30	130	54	4.91e-09		Pm47	147	61	0.00e+00
Xe31	131	54	6.73e-09		Pm48	148	61	0.00e+00
Xe32	132	54	1.45e-08		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	3.68e-09		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	4.19e-11
Xe36	136	54	2.14e-09		Sm45	145	62	0.00e+00
Cs33	133	55	2.85e-09		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	6.47e-10
Cs35	135	55	6.86e-10		Sm48	148	62	1.16e-09
Cs36	136	55	0.00e+00		Sm49	149	62	3.83e-10
Cs37	137	55	2.08e-13		Sm50	150	62	9.05e-10
Ba34	134	56	2.96e-09		Sm51	151	62	0.00e+00
Ba35	135	56	2.28e-09		Sm52	152	62	1.06e-09
Ba36	136	56	9.21e-09		Sm53	153	62	0.00e+00

Sm54	154	62	5.84e-10
Eu51	151	63	3.68e-10
Eu52	152	63	0.00e+00
Eu53	153	63	4.18e-10
Eu54	154	63	0.00e+00
Eu55	155	63	0.00e+00
Eu56	156	63	0.00e+00
Eu57	157	63	0.00e+00
Gd52	152	64	1.85e-11
Gd53	153	64	0.00e+00
Gd54	154	64	2.39e-10
Gd55	155	64	4.54e-10
Gd56	156	64	9.48e-10
Gd57	157	64	5.64e-10
Gd58	158	64	1.48e-09
Gd59	159	64	0.00e+00
Gd60	160	64	6.12e-10
Tb59	159	65	5.82e-10
Tb60	160	65	0.00e+00
Tb61	161	65	0.00e+00
Dy60	160	66	3.97e-10
Dy61	161	66	6.17e-10
Dy62	162	66	1.34e-09
Dy63	163	66	7.96e-10
Dy64	164	66	1.75e-09
Dy65	165	66	0.00e+00
Dy66	166	66	0.00e+00
Ho63	163	67	1.10e-11
Ho64	164	67	0.00e+00
Ho65	165	67	8.65e-10
Ho66	166	67	0.00e+00
Er64	164	68	1.83e-10
Er65	165	68	0.00e+00
Er66	166	68	1.05e-09
Er67	167	68	6.01e-10
Er68	168	68	1.36e-09
Er69	169	68	0.00e+00
Er70	170	68	6.09e-10
Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	4.18e-10

Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00
Tm73	173	69	0.00e+00
Yb70	170	70	3.35e-10
Yb71	171	70	6.29e-10
Yb72	172	70	1.38e-09
Yb73	173	70	7.45e-10
Yb74	174	70	2.79e-09
Yb75	175	70	0.00e+00
Yb76	176	70	5.87e-10
Yb77	177	70	0.00e+00
Lu75	175	71	5.37e-10
Lu76	176	71	6.11e-11
Lu77	177	71	0.00e+00
Hf76	176	72	4.70e-10
Hf77	177	72	4.74e-10
Hf78	178	72	1.49e-09
Hf79	179	72	5.71e-10
Hf80	180	72	2.68e-09
Hf81	181	72	0.00e+00
Hf82	182	72	1.41e-10
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	2.89e-13
Ta81	181	73	6.19e-10
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	1.02e-12
W181	181	74	0.00e+00
W182	182	74	1.15e-09
W183	183	74	7.38e-10
W184	184	74	1.86e-09
W185	185	74	0.00e+00
W186	186	74	9.48e-10
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	4.47e-10
Re86	186	75	0.00e+00

Isotope	A	Z	YIELD
Re87	187	75	3.95e-10
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	6.50e-10
Os87	187	76	2.58e-10
Os88	188	76	1.93e-09
Os89	189	76	1.05e-09
Os90	190	76	2.68e-09
Os91	191	76	0.00e+00
Os92	192	76	2.66e-09
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	1.97e-09
Ir92	192	77	0.00e+00
Ir93	193	77	3.23e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	4.95e-10
Pt93	193	78	0.00e+00
Pt94	194	78	4.77e-09
Pt95	195	78	3.90e-09
Pt96	196	78	4.55e-09
Pt97	197	78	0.00e+00
Pt98	198	78	8.99e-10
Au97	197	79	2.03e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	2.19e-09
Hg99	199	80	1.43e-09
Hg00	200	80	3.85e-09
Hg01	201	80	1.78e-09
Hg02	202	80	6.68e-09
Hg03	203	80	0.00e+00
Hg04	204	80	3.71e-10
Tl03	203	81	3.10e-09
Tl04	204	81	0.00e+00
Tl05	205	81	5.92e-09
Pb04	204	82	3.84e-09
Pb05	205	82	1.43e-10
Pb06	206	82	3.34e-08
Pb07	207	82	3.80e-08

Isotope	A	Z	YIELD
Pb08	208	82	1.03e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	1.97e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_{\odot}$ = 4.00; Z = 0.008000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_{\odot}$]
H	1	1	2.22e+00
He4	4	2	9.12e-01
C12	12	6	4.49e-03
C13	13	6	1.22e-04
C14	14	6	7.95e-08
N14	14	7	4.01e-03
N15	15	7	2.35e-06
O16	16	8	1.04e-02
O17	17	8	3.88e-05
O18	18	8	1.59e-05
F18	18	9	0.00e+00
F19	19	9	8.20e-07
Ne20	20	10	1.96e-03
Ne21	21	10	7.11e-06
Ne22	22	10	2.34e-04
Na22	22	11	0.00e+00
Na23	23	11	9.27e-05
Na24	24	11	0.00e+00
Mg24	24	12	9.78e-04
Mg25	25	12	1.27e-04
Mg26	26	12	1.55e-04
Al26	26	13	1.75e-07
Al27	27	13	1.15e-04
Si28	28	14	1.28e-03
Si29	29	14	6.71e-05
Si30	30	14	4.58e-05
Si31	31	14	0.00e+00

Si32	32	14	0.00e+00
P31	31	15	1.20e-05
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	6.70e-04
S33	33	16	5.48e-06
S34	34	16	3.16e-05
S35	35	16	0.00e+00
S36	36	16	1.40e-07
Cl35	35	17	6.86e-06
Cl36	36	17	9.54e-10
Cl37	37	17	2.36e-06
Ar36	36	18	1.54e-04
Ar37	37	18	0.00e+00
Ar38	38	18	2.95e-05
Ar39	39	18	2.15e-11
Ar40	40	18	5.78e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	6.37e-06
K40	40	19	9.52e-09
K41	41	19	4.88e-07
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	1.15e-04
Ca41	41	20	2.41e-09
Ca42	42	20	8.13e-07
Ca43	43	20	1.74e-07
Ca44	44	20	2.73e-06
Ca45	45	20	0.00e+00
Ca46	46	20	5.65e-09
Ca47	47	20	0.00e+00
Ca48	48	20	2.67e-07
Sc45	45	21	7.64e-08
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	4.50e-07
Ti47	47	22	4.14e-07
Ti48	48	22	4.18e-06

Ti49	49	22	3.18e-07
Ti50	50	22	3.18e-07
V50	50	23	1.77e-09
V51	51	23	7.24e-07
Cr50	50	24	1.41e-06
Cr51	51	24	0.00e+00
Cr52	52	24	2.83e-05
Cr53	53	24	3.27e-06
Cr54	54	24	8.43e-07
Mn55	55	25	2.48e-05
Mn56	56	25	0.00e+00
Fe54	54	26	1.35e-04
Fe55	55	26	4.32e-12
Fe56	56	26	2.21e-03
Fe57	57	26	5.24e-05
Fe58	58	26	7.56e-06
Fe59	59	26	0.00e+00
Fe60	60	26	7.88e-09
Co59	59	27	6.61e-06
Co60	60	27	0.00e+00
Ni58	58	28	9.31e-05
Ni59	59	28	2.50e-08
Ni60	60	28	3.72e-05
Ni61	61	28	1.68e-06
Ni62	62	28	5.38e-06
Ni63	63	28	2.07e-11
Ni64	64	28	1.45e-06
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	1.15e-06
Cu64	64	29	0.00e+00
Cu65	65	29	5.43e-07
Cu68	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	1.94e-06
Zn65	65	30	0.00e+00
Zn66	66	30	1.16e-06
Zn67	67	30	1.75e-07
Zn68	68	30	8.18e-07
Zn69	69	30	0.00e+00
Zn70	70	30	2.69e-08

Ga69	69	31	7.84e-08		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	1.47e-08
Ga71	71	31	5.45e-08		Sr87	87	38	1.10e-08
Ga72	72	31	0.00e+00		Sr88	88	38	1.63e-07
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	9.51e-08		Sr90	90	38	0.00e+00
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	1.27e-07		Sr92	92	38	0.00e+00
Ge73	73	32	3.59e-08		Y89	89	39	3.94e-08
Ge74	74	32	1.73e-07		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	3.36e-08		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	2.38e-08		Zr90	90	40	4.66e-08
As76	76	33	0.00e+00		Zr91	91	40	1.14e-08
As77	77	33	0.00e+00		Zr92	92	40	1.77e-08
Se76	76	34	2.71e-08		Zr93	93	40	3.23e-09
Se77	77	34	2.08e-08		Zr94	94	40	2.11e-08
Se78	78	34	7.07e-08		Zr95	95	40	0.00e+00
Se79	79	34	1.48e-09		Zr96	96	40	2.65e-09
Se80	80	34	1.43e-07		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	3.54e-09
Se82	82	34	2.25e-08		Nb94	94	41	0.00e+00
Br79	79	35	2.28e-08		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	2.43e-08		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	1.89e-09
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	1.21e-09
Kr80	80	36	5.43e-09		Mo95	95	42	3.54e-09
Kr81	81	36	1.62e-10		Mo96	96	42	4.80e-09
Kr82	82	36	3.20e-08		Mo97	97	42	2.17e-09
Kr83	83	36	2.82e-08		Mo98	98	42	6.42e-09
Kr84	84	36	1.44e-07		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	1.47e-09
Kr86	86	36	5.76e-08		Tc97	97	43	0.00e+00
Kr87	87	36	0.00e+00		Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00		Tc99	99	43	3.60e-10
Rb85	85	37	2.32e-08		Ru96	96	44	4.76e-10
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	1.25e-08		Ru98	98	44	1.64e-10

Ru99	99	44	1.20e-09		Sn24	124	50	1.32e-09
Ru00	100	44	2.67e-09		Sb21	121	51	1.88e-09
Ru01	101	44	1.89e-09		Sb22	122	51	0.00e+00
Ru02	102	44	5.09e-09		Sb23	123	51	9.85e-10
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	1.89e-09		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	1.92e-09
Ru06	106	44	0.00e+00		Te23	123	52	6.68e-10
Rh03	103	45	2.24e-09		Te24	124	52	3.76e-09
Rh05	105	45	0.00e+00		Te25	125	52	2.89e-09
Pd04	104	46	1.99e-09		Te26	126	52	1.02e-08
Pd05	105	46	2.00e-09		Te27	127	52	0.00e+00
Pd06	106	46	3.52e-09		Te28	128	52	1.00e-08
Pd07	107	46	2.80e-10		Te30	130	52	1.04e-08
Pd08	108	46	3.87e-09		I127	127	53	6.86e-09
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	1.05e-09		I129	129	53	1.38e-11
Ag07	107	47	1.34e-09		I130	130	53	0.00e+00
Ag09	109	47	1.80e-09		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	7.58e-11		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	2.21e-09
Cd10	110	48	2.57e-09		Xe29	129	54	9.97e-09
Cd11	111	48	1.63e-09		Xe30	130	54	4.61e-09
Cd12	112	48	4.11e-09		Xe31	131	54	8.44e-09
Cd13	113	48	1.66e-09		Xe32	132	54	1.55e-08
Cd14	114	48	5.50e-09		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	3.85e-09
Cd16	116	48	9.88e-10		Xe35	135	54	0.00e+00
In13	113	49	4.34e-11		Xe36	136	54	2.84e-09
In15	115	49	1.58e-09		Cs33	133	55	3.26e-09
Sn14	114	50	1.38e-10		Cs34	134	55	0.00e+00
Sn15	115	50	7.13e-11		Cs35	135	55	4.49e-10
Sn16	116	50	7.07e-09		Cs36	136	55	0.00e+00
Sn17	117	50	2.88e-09		Cs37	137	55	0.00e+00
Sn18	118	50	1.12e-08		Ba34	134	56	2.78e-09
Sn19	119	50	3.68e-09		Ba35	135	56	2.67e-09
Sn20	120	50	1.70e-08		Ba36	136	56	8.78e-09
Sn21	121	50	0.00e+00		Ba37	137	56	8.92e-09
Sn22	122	50	1.51e-09		Ba38	138	56	9.31e-08
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00

Ba40	140	56	0.00e+00		Eu53	153	63	4.76e-10
La39	139	57	1.14e-08		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	3.18e-08		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	1.53e-09		Gd52	152	64	1.29e-11
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	1.93e-10
Pr41	141	59	3.66e-09		Gd55	155	64	5.04e-10
Pr42	142	59	0.00e+00		Gd56	156	64	9.19e-10
Pr43	143	59	0.00e+00		Gd57	157	64	5.90e-10
Pr45	145	59	0.00e+00		Gd58	158	64	1.36e-09
Nd42	142	60	7.71e-09		Gd59	159	64	0.00e+00
Nd43	143	60	1.69e-09		Gd60	160	64	6.87e-10
Nd44	144	60	4.49e-09		Tb59	159	65	6.32e-10
Nd45	145	60	1.07e-09		Tb60	160	65	0.00e+00
Nd46	146	60	3.83e-09		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	3.16e-10
Nd48	148	60	7.22e-10		Dy61	161	66	7.11e-10
Nd49	149	60	0.00e+00		Dy62	162	66	1.32e-09
Nd50	150	60	3.53e-10		Dy63	163	66	9.34e-10
Pm45	145	61	0.00e+00		Dy64	164	66	1.68e-09
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	8.20e-12
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	9.54e-10
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	5.60e-11		Er64	164	68	1.38e-10
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	1.07e-09
Sm47	147	62	6.13e-10		Er67	167	68	6.59e-10
Sm48	148	62	9.68e-10		Er68	168	68	1.26e-09
Sm49	149	62	4.00e-10		Er69	169	68	0.00e+00
Sm50	150	62	7.30e-10		Er70	170	68	5.84e-10
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	1.01e-09		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	4.49e-10
Sm54	154	62	6.14e-10		Tm70	170	69	0.00e+00
Eu51	151	63	4.24e-10		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00

Tm73	173	69	0.00e+00		Os86	186	76	5.11e-10
Yb70	170	70	2.70e-10		Os87	187	76	2.41e-10
Yb71	171	70	6.09e-10		Os88	188	76	1.76e-09
Yb72	172	70	1.22e-09		Os89	189	76	1.22e-09
Yb73	173	70	7.07e-10		Os90	190	76	2.68e-09
Yb74	174	70	2.38e-09		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	3.08e-09
Yb76	176	70	5.14e-10		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	5.33e-10		Ir91	191	77	2.46e-09
Lu76	176	71	4.90e-11		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	4.09e-09
Hf76	176	72	3.83e-10		Ir94	194	77	0.00e+00
Hf77	177	72	4.70e-10		Ir95	195	77	0.00e+00
Hf78	178	72	1.26e-09		Pt92	192	78	3.83e-10
Hf79	179	72	5.07e-10		Pt93	193	78	0.00e+00
Hf80	180	72	2.19e-09		Pt94	194	78	5.31e-09
Hf81	181	72	0.00e+00		Pt95	195	78	4.80e-09
Hf82	182	72	8.58e-11		Pt96	196	78	4.74e-09
Hf83	183	72	0.00e+00		Pt97	197	78	0.00e+00
Hf84	184	72	0.00e+00		Pt98	198	78	1.05e-09
Ta79	179	73	0.00e+00		Au97	197	79	2.32e-09
Ta80	180	73	2.01e-13		Au98	198	79	0.00e+00
Ta81	181	73	5.38e-10		Au99	199	79	0.00e+00
Ta82	182	73	0.00e+00		Hg98	198	80	1.76e-09
Ta83	183	73	0.00e+00		Hg99	199	80	1.34e-09
Ta84	184	73	0.00e+00		Hg00	200	80	3.17e-09
W180	180	74	1.37e-12		Hg01	201	80	1.51e-09
W181	181	74	0.00e+00		Hg02	202	80	5.19e-09
W182	182	74	9.69e-10		Hg03	203	80	0.00e+00
W183	183	74	6.18e-10		Hg04	204	80	3.47e-10
W184	184	74	1.54e-09		Tl03	203	81	2.37e-09
W185	185	74	0.00e+00		Tl04	204	81	0.00e+00
W186	186	74	8.56e-10		Tl05	205	81	4.59e-09
W187	187	74	0.00e+00		Pb04	204	82	2.93e-09
W188	188	74	0.00e+00		Pb05	205	82	1.05e-10
Re85	185	75	4.17e-10		Pb06	206	82	2.31e-08
Re86	186	75	0.00e+00		Pb07	207	82	2.35e-08
Re87	187	75	4.21e-10		Pb08	208	82	5.42e-08
Re88	188	75	0.00e+00		Pb09	209	82	0.00e+00
Re89	189	75	0.00e+00		Pb10	210	82	0.00e+00

Isotope	A	Z	YIELD [$M_\odot$]
Bi09	209	83	1.73e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 4.00; Z = 0.010000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	2.23e+00
He4	4	2	9.10e-01
C12	12	6	5.01e-03
C13	13	6	1.53e-04
C14	14	6	7.23e-08
N14	14	7	5.03e-03
N15	15	7	3.00e-06
O16	16	8	1.30e-02
O17	17	8	4.73e-05
O18	18	8	2.01e-05
F18	18	9	0.00e+00
F19	19	9	1.03e-06
Ne20	20	10	2.46e-03
Ne21	21	10	8.06e-06
Ne22	22	10	2.82e-04
Na22	22	11	0.00e+00
Na23	23	11	1.15e-04
Na24	24	11	0.00e+00
Mg24	24	12	1.23e-03
Mg25	25	12	1.59e-04
Mg26	26	12	1.93e-04
Al26	26	13	2.56e-07
Al27	27	13	1.42e-04
Si28	28	14	1.60e-03
Si29	29	14	8.41e-05
Si30	30	14	5.75e-05
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	1.50e-05
P32	32	15	0.00e+00

Isotope	A	Z	YIELD [$M_\odot$]
P33	33	15	0.00e+00
S32	32	16	8.41e-04
S33	33	16	6.87e-06
S34	34	16	3.97e-05
S35	35	16	0.00e+00
S36	36	16	1.74e-07
Cl35	35	17	8.61e-06
Cl36	36	17	1.10e-09
Cl37	37	17	2.96e-06
Ar36	36	18	1.93e-04
Ar37	37	18	0.00e+00
Ar38	38	18	3.71e-05
Ar39	39	18	1.82e-11
Ar40	40	18	7.28e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	8.00e-06
K40	40	19	1.19e-08
K41	41	19	6.11e-07
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	1.45e-04
Ca41	41	20	2.88e-09
Ca42	42	20	1.02e-06
Ca43	43	20	2.18e-07
Ca44	44	20	3.43e-06
Ca45	45	20	0.00e+00
Ca46	46	20	7.00e-09
Ca47	47	20	0.00e+00
Ca48	48	20	3.35e-07
Sc45	45	21	9.57e-08
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	5.65e-07
Ti47	47	22	5.19e-07
Ti48	48	22	5.25e-06
Ti49	49	22	3.99e-07
Ti50	50	22	3.99e-07
V50	50	23	2.23e-09

V51	51	23	9.08e-07
Cr50	50	24	1.77e-06
Cr51	51	24	0.00e+00
Cr52	52	24	3.55e-05
Cr53	53	24	4.11e-06
Cr54	54	24	1.06e-06
Mn55	55	25	3.11e-05
Mn56	56	25	0.00e+00
Fe54	54	26	1.70e-04
Fe55	55	26	3.19e-12
Fe56	56	26	2.77e-03
Fe57	57	26	6.57e-05
Fe58	58	26	9.34e-06
Fe59	59	26	0.00e+00
Fe60	60	26	4.36e-09
Co59	59	27	8.27e-06
Co60	60	27	0.00e+00
Ni58	58	28	1.17e-04
Ni59	59	28	3.02e-08
Ni60	60	28	4.67e-05
Ni61	61	28	2.10e-06
Ni62	62	28	6.73e-06
Ni63	63	28	1.49e-11
Ni64	64	28	1.82e-06
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	1.44e-06
Cu64	64	29	0.00e+00
Cu65	65	29	6.86e-07
Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	2.43e-06
Zn65	65	30	0.00e+00
Zn66	66	30	1.46e-06
Zn67	67	30	2.21e-07
Zn68	68	30	1.03e-06
Zn69	69	30	0.00e+00
Zn70	70	30	3.38e-08
Ga69	69	31	9.91e-08
Ga70	70	31	0.00e+00
Ga71	71	31	6.95e-08

Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	1.21e-07
Ge71	71	32	0.00e+00
Ge72	72	32	1.60e-07
Ge73	73	32	4.55e-08
Ge74	74	32	2.20e-07
Ge75	75	32	0.00e+00
Ge76	76	32	4.21e-08
Ge77	77	32	0.00e+00
As75	75	33	3.02e-08
As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	3.47e-08
Se77	77	34	2.64e-08
Se78	78	34	9.07e-08
Se79	79	34	2.04e-09
Se80	80	34	1.82e-07
Se81	81	34	0.00e+00
Se82	82	34	2.82e-08
Br79	79	35	2.88e-08
Br80	80	35	0.00e+00
Br81	81	35	3.09e-08
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	7.02e-09
Kr81	81	36	3.01e-10
Kr82	82	36	4.17e-08
Kr83	83	36	3.59e-08
Kr84	84	36	1.83e-07
Kr85	85	36	0.00e+00
Kr86	86	36	7.11e-08
Kr87	87	36	0.00e+00
Kr88	88	36	0.00e+00
Rb85	85	37	2.93e-08
Rb86	86	37	0.00e+00
Rb87	87	37	1.49e-08
Rb88	88	37	0.00e+00
Sr86	86	38	2.03e-08
Sr87	87	38	1.50e-08

Sr88	88	38	2.22e-07
Sr89	89	38	0.00e+00
Sr90	90	38	0.00e+00
Sr91	91	38	0.00e+00
Sr92	92	38	0.00e+00
Y89	89	39	5.28e-08
Y90	90	39	0.00e+00
Y91	91	39	0.00e+00
Y92	92	39	0.00e+00
Y93	93	39	0.00e+00
Zr90	90	40	6.29e-08
Zr91	91	40	1.52e-08
Zr92	92	40	2.35e-08
Zr93	93	40	4.53e-09
Zr94	94	40	2.86e-08
Zr95	95	40	0.00e+00
Zr96	96	40	2.94e-09
Zr97	97	40	0.00e+00
Nb93	93	41	4.45e-09
Nb94	94	41	0.00e+00
Nb95	95	41	0.00e+00
Nb96	96	41	0.00e+00
Nb97	97	41	0.00e+00
Mo92	92	42	2.38e-09
Mo93	93	42	0.00e+00
Mo94	94	42	1.53e-09
Mo95	95	42	4.63e-09
Mo96	96	42	6.49e-09
Mo97	97	42	2.88e-09
Mo98	98	42	8.68e-09
Mo99	99	42	0.00e+00
Mo00	100	42	1.82e-09
Tc97	97	43	0.00e+00
Tc98	98	43	0.00e+00
Tc99	99	43	5.18e-10
Ru96	96	44	5.98e-10
Ru97	97	44	0.00e+00
Ru98	98	44	2.06e-10
Ru99	99	44	1.52e-09
Ru00	100	44	3.67e-09
Ru01	101	44	2.44e-09

Ru02	102	44	6.80e-09
Ru03	103	44	0.00e+00
Ru04	104	44	2.35e-09
Ru05	105	44	0.00e+00
Ru06	106	44	0.00e+00
Rh03	103	45	2.88e-09
Rh05	105	45	0.00e+00
Pd04	104	46	2.72e-09
Pd05	105	46	2.56e-09
Pd06	106	46	4.66e-09
Pd07	107	46	4.01e-10
Pd08	108	46	5.18e-09
Pd09	109	46	0.00e+00
Pd10	110	46	1.29e-09
Ag07	107	47	1.68e-09
Ag09	109	47	2.36e-09
Ag11	111	47	0.00e+00
Cd08	108	48	9.57e-11
Cd09	109	48	0.00e+00
Cd10	110	48	3.49e-09
Cd11	111	48	2.13e-09
Cd12	112	48	5.48e-09
Cd13	113	48	2.18e-09
Cd14	114	48	7.35e-09
Cd15	115	48	0.00e+00
Cd16	116	48	1.16e-09
In13	113	49	5.45e-11
In15	115	49	2.06e-09
Sn14	114	50	1.73e-10
Sn15	115	50	8.96e-11
Sn16	116	50	9.51e-09
Sn17	117	50	3.79e-09
Sn18	118	50	1.47e-08
Sn19	119	50	4.83e-09
Sn20	120	50	2.24e-08
Sn21	121	50	0.00e+00
Sn22	122	50	1.70e-09
Sn23	123	50	0.00e+00
Sn24	124	50	1.65e-09
Sb21	121	51	2.43e-09
Sb22	122	51	0.00e+00

Sb23	123	51	1.22e-09		Ce40	140	58	3.35e-08
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	1.55e-09
Te22	122	52	2.54e-09		Ce43	143	58	0.00e+00
Te23	123	52	8.88e-10		Ce44	144	58	0.00e+00
Te24	124	52	4.98e-09		Pr41	141	59	3.87e-09
Te25	125	52	3.71e-09		Pr42	142	59	0.00e+00
Te26	126	52	1.33e-08		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	1.26e-08		Nd42	142	60	7.98e-09
Te30	130	52	1.30e-08		Nd43	143	60	1.82e-09
I127	127	53	8.68e-09		Nd44	144	60	4.60e-09
I128	128	53	0.00e+00		Nd45	145	60	1.15e-09
I129	129	53	1.74e-11		Nd46	146	60	3.85e-09
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	7.29e-10
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	4.37e-10
Xe28	128	54	2.93e-09		Pm45	145	61	0.00e+00
Xe29	129	54	1.26e-08		Pm46	146	61	0.00e+00
Xe30	130	54	6.10e-09		Pm47	147	61	0.00e+00
Xe31	131	54	1.07e-08		Pm48	148	61	0.00e+00
Xe32	132	54	1.99e-08		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	4.65e-09		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	7.03e-11
Xe36	136	54	3.56e-09		Sm45	145	62	0.00e+00
Cs33	133	55	4.14e-09		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	6.54e-10
Cs35	135	55	5.08e-10		Sm48	148	62	9.74e-10
Cs36	136	55	0.00e+00		Sm49	149	62	4.51e-10
Cs37	137	55	0.00e+00		Sm50	150	62	7.06e-10
Ba34	134	56	3.71e-09		Sm51	151	62	0.00e+00
Ba35	135	56	3.44e-09		Sm52	152	62	1.09e-09
Ba36	136	56	1.15e-08		Sm53	153	62	0.00e+00
Ba37	137	56	1.13e-08		Sm54	154	62	6.93e-10
Ba38	138	56	1.06e-07		Eu51	151	63	5.02e-10
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	5.61e-10
La39	139	57	1.28e-08		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00

Eu56	156	63	0.00e+00		Yb72	172	70	1.26e-09
Eu57	157	63	0.00e+00		Yb73	173	70	7.53e-10
Gd52	152	64	1.35e-11		Yb74	174	70	2.35e-09
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00
Gd54	154	64	1.93e-10		Yb76	176	70	5.21e-10
Gd55	155	64	5.83e-10		Yb77	177	70	0.00e+00
Gd56	156	64	1.00e-09		Lu75	175	71	5.80e-10
Gd57	157	64	6.69e-10		Lu76	176	71	4.61e-11
Gd58	158	64	1.43e-09		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	3.66e-10
Gd60	160	64	8.06e-10		Hf77	177	72	5.13e-10
Tb59	159	65	7.29e-10		Hf78	178	72	1.24e-09
Tb60	160	65	0.00e+00		Hf79	179	72	5.15e-10
Tb61	161	65	0.00e+00		Hf80	180	72	2.09e-09
Dy60	160	66	3.07e-10		Hf81	181	72	0.00e+00
Dy61	161	66	8.44e-10		Hf82	182	72	6.13e-11
Dy62	162	66	1.46e-09		Hf83	183	72	0.00e+00
Dy63	163	66	1.11e-09		Hf84	184	72	0.00e+00
Dy64	164	66	1.83e-09		Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00		Ta80	180	73	1.77e-13
Dy66	166	66	0.00e+00		Ta81	181	73	5.35e-10
Ho63	163	67	6.86e-12		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta83	183	73	0.00e+00
Ho65	165	67	1.11e-09		Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00		W180	180	74	1.72e-12
Er64	164	68	1.35e-10		W181	181	74	0.00e+00
Er65	165	68	0.00e+00		W182	182	74	9.64e-10
Er66	166	68	1.22e-09		W183	183	74	5.99e-10
Er67	167	68	7.64e-10		W184	184	74	1.47e-09
Er68	168	68	1.34e-09		W185	185	74	0.00e+00
Er69	169	68	0.00e+00		W186	186	74	8.38e-10
Er70	170	68	6.17e-10		W187	187	74	0.00e+00
Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	4.28e-10
Tm69	169	69	5.14e-10		Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00		Re87	187	75	4.64e-10
Tm71	171	69	0.00e+00		Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00		Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00		Os86	186	76	4.83e-10
Yb70	170	70	2.69e-10		Os87	187	76	2.58e-10
Yb71	171	70	6.51e-10		Os88	188	76	1.81e-09

Os89	189	76	1.45e-09
Os90	190	76	2.92e-09
Os91	191	76	0.00e+00
Os92	192	76	3.62e-09
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	3.00e-09
Ir92	192	77	0.00e+00
Ir93	193	77	5.02e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	3.62e-10
Pt93	193	78	0.00e+00
Pt94	194	78	6.18e-09
Pt95	195	78	5.84e-09
Pt96	196	78	5.32e-09
Pt97	197	78	0.00e+00
Pt98	198	78	1.25e-09
Au97	197	79	2.73e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.63e-09
Hg99	199	80	1.40e-09
Hg00	200	80	2.97e-09
Hg01	201	80	1.45e-09
Hg02	202	80	4.61e-09
Hg03	203	80	0.00e+00
Hg04	204	80	3.92e-10
Tl03	203	81	2.07e-09
Tl04	204	81	0.00e+00
Tl05	205	81	4.19e-09
Pb04	204	82	2.56e-09
Pb05	205	82	6.84e-11
Pb06	206	82	1.95e-08
Pb07	207	82	1.94e-08
Pb08	208	82	4.77e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	1.97e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

Model Parameters: ($M_\odot$ = 4.00; Z = 0.014000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	2.23e+00
He4	4	2	9.17e-01
C12	12	6	5.89e-03
C13	13	6	2.14e-04
C14	14	6	6.69e-08
N14	14	7	6.76e-03
N15	15	7	4.29e-06
O16	16	8	1.81e-02
O17	17	8	6.03e-05
O18	18	8	2.86e-05
F18	18	9	0.00e+00
F19	19	9	1.40e-06
Ne20	20	10	3.41e-03
Ne21	21	10	9.97e-06
Ne22	22	10	3.62e-04
Na22	22	11	0.00e+00
Na23	23	11	1.56e-04
Na24	24	11	0.00e+00
Mg24	24	12	1.70e-03
Mg25	25	12	2.22e-04
Mg26	26	12	2.65e-04
Al26	26	13	3.17e-07
Al27	27	13	1.95e-04
Si28	28	14	2.22e-03
Si29	29	14	1.17e-04
Si30	30	14	7.96e-05
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	2.08e-05
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	1.17e-03
S33	33	16	9.51e-06
S34	34	16	5.50e-05

S35	35	16	0.00e+00		Cr53	53	24	5.69e-06
S36	36	16	2.40e-07		Cr54	54	24	1.46e-06
Cl35	35	17	1.19e-05		Mn55	55	25	4.31e-05
Cl36	36	17	1.21e-09		Mn56	56	25	0.00e+00
Cl37	37	17	4.10e-06		Fe54	54	26	2.36e-04
Ar36	36	18	2.67e-04		Fe55	55	26	3.01e-12
Ar37	37	18	0.00e+00		Fe56	56	26	3.84e-03
Ar38	38	18	5.13e-05		Fe57	57	26	9.08e-05
Ar39	39	18	1.37e-11		Fe58	58	26	1.27e-05
Ar40	40	18	9.88e-08		Fe59	59	26	0.00e+00
Ar41	41	18	0.00e+00		Fe60	60	26	1.89e-09
Ar42	42	18	0.00e+00		Co59	59	27	1.14e-05
K39	39	19	1.11e-05		Co60	60	27	0.00e+00
K40	40	19	1.58e-08		Ni58	58	28	1.62e-04
K41	41	19	8.46e-07		Ni59	59	28	3.43e-08
K42	42	19	0.00e+00		Ni60	60	28	6.47e-05
K43	43	19	0.00e+00		Ni61	61	28	2.90e-06
Ca40	40	20	2.00e-04		Ni62	62	28	9.31e-06
Ca41	41	20	3.36e-09		Ni63	63	28	9.96e-12
Ca42	42	20	1.41e-06		Ni64	64	28	2.53e-06
Ca43	43	20	3.01e-07		Ni65	65	28	0.00e+00
Ca44	44	20	4.75e-06		Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00		Cu63	63	29	2.00e-06
Ca46	46	20	9.59e-09		Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00		Cu65	65	29	9.51e-07
Ca48	48	20	4.64e-07		Cu66	66	29	0.00e+00
Sc45	45	21	1.32e-07		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	3.38e-06
Sc47	47	21	0.00e+00		Zn65	65	30	0.00e+00
Sc48	48	21	0.00e+00		Zn66	66	30	2.03e-06
Sc49	49	21	0.00e+00		Zn67	67	30	3.06e-07
Ti46	46	22	7.83e-07		Zn68	68	30	1.43e-06
Ti47	47	22	7.19e-07		Zn69	69	30	0.00e+00
Ti48	48	22	7.28e-06		Zn70	70	30	4.68e-08
Ti49	49	22	5.51e-07		Ga69	69	31	1.37e-07
Ti50	50	22	5.48e-07		Ga70	70	31	0.00e+00
V50	50	23	3.08e-09		Ga71	71	31	9.70e-08
V51	51	23	1.26e-06		Ga72	72	31	0.00e+00
Cr50	50	24	2.45e-06		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	1.68e-07
Cr52	52	24	4.92e-05		Ge71	71	32	0.00e+00

Ge72	72	32	2.23e-07		Sr92	92	38	0.00e+00
Ge73	73	32	6.31e-08		Y89	89	39	7.10e-08
Ge74	74	32	3.05e-07		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	5.83e-08		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	4.19e-08		Zr90	90	40	8.48e-08
As76	76	33	0.00e+00		Zr91	91	40	1.99e-08
As77	77	33	0.00e+00		Zr92	92	40	3.07e-08
Se76	76	34	4.82e-08		Zr93	93	40	5.57e-09
Se77	77	34	3.67e-08		Zr94	94	40	3.70e-08
Se78	78	34	1.26e-07		Zr95	95	40	0.00e+00
Se79	79	34	2.73e-09		Zr96	96	40	3.33e-09
Se80	80	34	2.52e-07		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	6.16e-09
Se82	82	34	3.91e-08		Nb94	94	41	0.00e+00
Br79	79	35	3.99e-08		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	4.30e-08		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	3.30e-09
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	2.12e-09
Kr80	80	36	1.00e-08		Mo95	95	42	6.00e-09
Kr81	81	36	5.60e-10		Mo96	96	42	8.41e-09
Kr82	82	36	5.85e-08		Mo97	97	42	3.78e-09
Kr83	83	36	4.99e-08		Mo98	98	42	1.13e-08
Kr84	84	36	2.54e-07		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	2.44e-09
Kr86	86	36	9.13e-08		Tc97	97	43	0.00e+00
Kr87	87	36	0.00e+00		Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00		Tc99	99	43	6.34e-10
Rb85	85	37	4.01e-08		Ru96	96	44	8.29e-10
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	1.84e-08		Ru98	98	44	2.86e-10
Rb88	88	37	0.00e+00		Ru99	99	44	2.10e-09
Sr86	86	38	2.96e-08		Ru00	100	44	4.72e-09
Sr87	87	38	2.17e-08		Ru01	101	44	3.29e-09
Sr88	88	38	3.06e-07		Ru02	102	44	8.83e-09
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	3.16e-09
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00

Ru06	106	44	0.00e+00
Rh03	103	45	3.88e-09
Rh05	105	45	0.00e+00
Pd04	104	46	3.47e-09
Pd05	105	46	3.46e-09
Pd06	106	46	6.06e-09
Pd07	107	46	4.76e-10
Pd08	108	46	6.65e-09
Pd09	109	46	0.00e+00
Pd10	110	46	1.69e-09
Ag07	107	47	2.33e-09
Ag09	109	47	3.11e-09
Ag11	111	47	0.00e+00
Cd08	108	48	1.33e-10
Cd09	109	48	0.00e+00
Cd10	110	48	4.41e-09
Cd11	111	48	2.79e-09
Cd12	112	48	6.93e-09
Cd13	113	48	2.83e-09
Cd14	114	48	9.17e-09
Cd15	115	48	0.00e+00
Cd16	116	48	1.39e-09
In13	113	49	7.55e-11
In15	115	49	2.65e-09
Sn14	114	50	2.39e-10
Sn15	115	50	1.24e-10
Sn16	116	50	1.18e-08
Sn17	117	50	4.79e-09
Sn18	118	50	1.80e-08
Sn19	119	50	5.96e-09
Sn20	120	50	2.65e-08
Sn21	121	50	0.00e+00
Sn22	122	50	2.02e-09
Sn23	123	50	0.00e+00
Sn24	124	50	2.29e-09
Sb21	121	51	3.03e-09
Sb22	122	51	0.00e+00
Sb23	123	51	1.60e-09
Sb24	124	51	0.00e+00
Sb25	125	51	0.00e+00
Te22	122	52	3.00e-09

Te23	123	52	1.06e-09
Te24	124	52	5.86e-09
Te25	125	52	4.80e-09
Te26	126	52	1.63e-08
Te27	127	52	0.00e+00
Te28	128	52	1.72e-08
Te30	130	52	1.80e-08
I127	127	53	1.17e-08
I128	128	53	0.00e+00
I129	129	53	1.71e-11
I130	130	53	0.00e+00
I131	131	53	0.00e+00
I132	132	53	0.00e+00
I133	133	53	0.00e+00
Xe28	128	54	3.35e-09
Xe29	129	54	1.71e-08
Xe30	130	54	6.90e-09
Xe31	131	54	1.44e-08
Xe32	132	54	2.42e-08
Xe33	133	54	0.00e+00
Xe34	134	54	6.14e-09
Xe35	135	54	0.00e+00
Xe36	136	54	4.93e-09
Cs33	133	55	5.26e-09
Cs34	134	55	0.00e+00
Cs35	135	55	3.88e-10
Cs36	136	55	0.00e+00
Cs37	137	55	0.00e+00
Ba34	134	56	4.07e-09
Ba35	135	56	4.41e-09
Ba36	136	56	1.22e-08
Ba37	137	56	1.22e-08
Ba38	138	56	9.54e-08
Ba39	139	56	0.00e+00
Ba40	140	56	0.00e+00
La39	139	57	1.15e-08
La40	140	57	0.00e+00
Ce40	140	58	2.80e-08
Ce41	141	58	0.00e+00
Ce42	142	58	1.72e-09
Ce43	143	58	0.00e+00

Ce44	144	58	0.00e+00		Gd54	154	64	1.65e-10
Pr41	141	59	3.50e-09		Gd55	155	64	7.11e-10
Pr42	142	59	0.00e+00		Gd56	156	64	1.10e-09
Pr43	143	59	0.00e+00		Gd57	157	64	7.87e-10
Pr45	145	59	0.00e+00		Gd58	158	64	1.46e-09
Nd42	142	60	6.43e-09		Gd59	159	64	0.00e+00
Nd43	143	60	1.78e-09		Gd60	160	64	1.03e-09
Nd44	144	60	4.07e-09		Tb59	159	65	8.86e-10
Nd45	145	60	1.16e-09		Tb60	160	65	0.00e+00
Nd46	146	60	3.25e-09		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	2.47e-10
Nd48	148	60	7.27e-10		Dy61	161	66	1.08e-09
Nd49	149	60	0.00e+00		Dy62	162	66	1.64e-09
Nd50	150	60	6.01e-10		Dy63	163	66	1.43e-09
Pm45	145	61	0.00e+00		Dy64	164	66	1.95e-09
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	3.76e-12
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	1.38e-09
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	9.75e-11		Er64	164	68	1.10e-10
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	1.42e-09
Sm47	147	62	6.58e-10		Er67	167	68	9.33e-10
Sm48	148	62	7.91e-10		Er68	168	68	1.35e-09
Sm49	149	62	5.22e-10		Er69	169	68	0.00e+00
Sm50	150	62	5.42e-10		Er70	170	68	6.54e-10
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	1.14e-09		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	6.10e-10
Sm54	154	62	8.30e-10		Tm70	170	69	0.00e+00
Eu51	151	63	6.33e-10		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00
Eu53	153	63	7.03e-10		Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00		Yb70	170	70	2.21e-10
Eu55	155	63	0.00e+00		Yb71	171	70	6.76e-10
Eu56	156	63	0.00e+00		Yb72	172	70	1.18e-09
Eu57	157	63	0.00e+00		Yb73	173	70	7.78e-10
Gd52	152	64	1.29e-11		Yb74	174	70	2.01e-09
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00

Yb76	176	70	5.48e-10
Yb77	177	70	0.00e+00
Lu75	175	71	6.32e-10
Lu76	176	71	3.36e-11
Lu77	177	71	0.00e+00
Hf76	176	72	2.83e-10
Hf77	177	72	5.69e-10
Hf78	178	72	1.10e-09
Hf79	179	72	4.93e-10
Hf80	180	72	1.69e-09
Hf81	181	72	0.00e+00
Hf82	182	72	2.21e-11
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	1.15e-13
Ta81	181	73	4.85e-10
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	2.38e-12
W181	181	74	0.00e+00
W182	182	74	8.59e-10
W183	183	74	5.04e-10
W184	184	74	1.17e-09
W185	185	74	0.00e+00
W186	186	74	7.70e-10
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	4.20e-10
Re86	186	75	0.00e+00
Re87	187	75	5.40e-10
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	3.70e-10
Os87	187	76	2.72e-10
Os88	188	76	1.84e-09
Os89	189	76	1.86e-09
Os90	190	76	3.33e-09
Os91	191	76	0.00e+00
Os92	192	76	4.69e-09

Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	4.02e-09
Ir92	192	77	0.00e+00
Ir93	193	77	6.79e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	3.03e-10
Pt93	193	78	0.00e+00
Pt94	194	78	7.83e-09
Pt95	195	78	7.80e-09
Pt96	196	78	6.35e-09
Pt97	197	78	0.00e+00
Pt98	198	78	1.66e-09
Au97	197	79	3.48e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.30e-09
Hg99	199	80	1.47e-09
Hg00	200	80	2.55e-09
Hg01	201	80	1.33e-09
Hg02	202	80	3.68e-09
Hg03	203	80	0.00e+00
Hg04	204	80	5.09e-10
Tl03	203	81	1.63e-09
Tl04	204	81	0.00e+00
Tl05	205	81	3.63e-09
Pb04	204	82	2.00e-09
Pb05	205	82	2.86e-11
Pb06	206	82	1.67e-08
Pb07	207	82	1.75e-08
Pb08	208	82	4.52e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	2.55e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M_o = 4.00; Z = 0.020000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [M_o]
H	1	1	2.25e+00
He4	4	2	9.21e-01
C12	12	6	8.80e-03
C13	13	6	3.15e-04
C14	14	6	3.78e-08
N14	14	7	9.61e-03
N15	15	7	6.50e-06
O16	16	8	2.68e-02
O17	17	8	8.65e-05
O18	18	8	4.30e-05
F18	18	9	0.00e+00
F19	19	9	2.12e-06
Ne20	20	10	5.02e-03
Ne21	21	10	1.39e-05
Ne22	22	10	6.22e-04
Na22	22	11	0.00e+00
Na23	23	11	2.26e-04
Na24	24	11	0.00e+00
Mg24	24	12	2.51e-03
Mg25	25	12	3.29e-04
Mg26	26	12	3.86e-04
Al26	26	13	2.78e-07
Al27	27	13	2.85e-04
Si28	28	14	3.26e-03
Si29	29	14	1.72e-04
Si30	30	14	1.17e-04
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	3.07e-05
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	1.71e-03
S33	33	16	1.40e-05
S34	34	16	8.09e-05
S35	35	16	0.00e+00
S36	36	16	3.58e-07
Cl35	35	17	1.76e-05
Cl36	36	17	2.29e-09

Isotope	A	Z	YIELD
Cl37	37	17	6.11e-06
Ar36	36	18	3.93e-04
Ar37	37	18	0.00e+00
Ar38	38	18	7.56e-05
Ar39	39	18	1.69e-11
Ar40	40	18	1.51e-07
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	1.63e-05
K40	40	19	2.60e-08
K41	41	19	1.25e-06
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	2.95e-04
Ca41	41	20	6.42e-09
Ca42	42	20	2.08e-06
Ca43	43	20	4.45e-07
Ca44	44	20	7.00e-06
Ca45	45	20	0.00e+00
Ca46	46	20	1.41e-08
Ca47	47	20	0.00e+00
Ca48	48	20	6.83e-07
Sc45	45	21	1.96e-07
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	1.16e-06
Ti47	47	22	1.06e-06
Ti48	48	22	1.07e-05
Ti49	49	22	8.15e-07
Ti50	50	22	8.16e-07
V50	50	23	4.54e-09
V51	51	23	1.85e-06
Cr50	50	24	3.61e-06
Cr51	51	24	0.00e+00
Cr52	52	24	7.25e-05
Cr53	53	24	8.37e-06
Cr54	54	24	2.15e-06
Mn55	55	25	6.34e-05
Mn56	56	25	0.00e+00

Fe54	54	26	3.47e-04		Ge76	76	32	8.58e-08
Fe55	55	26	4.23e-12		Ge77	77	32	0.00e+00
Fe56	56	26	5.65e-03		As75	75	33	6.61e-08
Fe57	57	26	1.34e-04		As76	76	33	0.00e+00
Fe58	58	26	1.90e-05		As77	77	33	0.00e+00
Fe59	59	26	0.00e+00		Se76	76	34	8.17e-08
Fe60	60	26	2.51e-09		Se77	77	34	5.83e-08
Co59	59	27	1.69e-05		Se78	78	34	2.15e-07
Co60	60	27	0.00e+00		Se79	79	34	7.21e-09
Ni58	58	28	2.38e-04		Se80	80	34	4.02e-07
Ni59	59	28	6.09e-08		Se81	81	34	0.00e+00
Ni60	60	28	9.53e-05		Se82	82	34	5.75e-08
Ni61	61	28	4.31e-06		Br79	79	35	6.04e-08
Ni62	62	28	1.38e-05		Br80	80	35	0.00e+00
Ni63	63	28	1.07e-11		Br81	81	35	6.93e-08
Ni64	64	28	3.85e-06		Br82	82	35	0.00e+00
Ni65	65	28	0.00e+00		Br83	83	35	0.00e+00
Ni66	66	28	0.00e+00		Br84	84	35	0.00e+00
Cu63	63	29	2.98e-06		Kr80	80	36	1.71e-08
Cu64	64	29	0.00e+00		Kr81	81	36	1.78e-09
Cu65	65	29	1.47e-06		Kr82	82	36	1.06e-07
Cu66	66	29	0.00e+00		Kr83	83	36	8.03e-08
Cu67	67	29	0.00e+00		Kr84	84	36	4.11e-07
Zn64	64	30	4.99e-06		Kr85	85	36	0.00e+00
Zn65	65	30	0.00e+00		Kr86	86	36	1.30e-07
Zn66	66	30	3.05e-06		Kr87	87	36	0.00e+00
Zn67	67	30	4.63e-07		Kr88	88	36	0.00e+00
Zn68	68	30	2.17e-06		Rb85	85	37	6.54e-08
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	6.89e-08		Rb87	87	37	2.63e-08
Ga69	69	31	2.14e-07		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	6.21e-08
Ga71	71	31	1.56e-07		Sr87	87	38	4.46e-08
Ga72	72	31	0.00e+00		Sr88	88	38	6.30e-07
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	2.70e-07		Sr90	90	38	0.00e+00
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	3.53e-07		Sr92	92	38	0.00e+00
Ge73	73	32	1.00e-07		Y89	89	39	1.38e-07
Ge74	74	32	4.94e-07		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00

Y92	92	39	0.00e+00		Pd05	105	46	5.35e-09
Y93	93	39	0.00e+00		Pd06	106	46	1.01e-08
Zr90	90	40	1.57e-07		Pd07	107	46	9.28e-10
Zr91	91	40	3.66e-08		Pd08	108	46	1.12e-08
Zr92	92	40	5.58e-08		Pd09	109	46	0.00e+00
Zr93	93	40	1.18e-08		Pd10	110	46	2.51e-09
Zr94	94	40	6.72e-08		Ag07	107	47	3.43e-09
Zr95	95	40	0.00e+00		Ag09	109	47	4.98e-09
Zr96	96	40	4.86e-09		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	1.99e-10
Nb93	93	41	9.29e-09		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	7.61e-09
Nb95	95	41	0.00e+00		Cd11	111	48	4.47e-09
Nb96	96	41	0.00e+00		Cd12	112	48	1.15e-08
Nb97	97	41	0.00e+00		Cd13	113	48	4.54e-09
Mo92	92	42	4.85e-09		Cd14	114	48	1.53e-08
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	3.15e-09		Cd16	116	48	2.02e-09
Mo95	95	42	1.02e-08		In13	113	49	1.11e-10
Mo96	96	42	1.50e-08		In15	115	49	4.24e-09
Mo97	97	42	6.43e-09		Sn14	114	50	3.52e-10
Mo98	98	42	1.97e-08		Sn15	115	50	1.83e-10
Mo99	99	42	0.00e+00		Sn16	116	50	1.95e-08
Mo00	100	42	3.60e-09		Sn17	117	50	7.69e-09
Tc97	97	43	2.22e-13		Sn18	118	50	2.89e-08
Tc98	98	43	0.00e+00		Sn19	119	50	9.47e-09
Tc99	99	43	1.18e-09		Sn20	120	50	4.16e-08
Ru96	96	44	1.22e-09		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	2.88e-09
Ru98	98	44	4.20e-10		Sn23	123	50	0.00e+00
Ru99	99	44	3.25e-09		Sn24	124	50	3.36e-09
Ru00	100	44	8.41e-09		Sb21	121	51	4.63e-09
Ru01	101	44	5.15e-09		Sb22	122	51	0.00e+00
Ru02	102	44	1.49e-08		Sb23	123	51	2.36e-09
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	4.67e-09		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	4.73e-09
Ru06	106	44	0.00e+00		Te23	123	52	1.67e-09
Rh03	103	45	6.05e-09		Te24	124	52	9.22e-09
Rh05	105	45	0.00e+00		Te25	125	52	7.26e-09
Pd04	104	46	6.12e-09		Te26	126	52	2.48e-08

Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	2.54e-08		Nd42	142	60	8.65e-09
Te30	130	52	2.65e-08		Nd43	143	60	2.49e-09
I127	127	53	1.74e-08		Nd44	144	60	5.58e-09
I128	128	53	0.00e+00		Nd45	145	60	1.63e-09
I129	129	53	2.60e-11		Nd46	146	60	4.45e-09
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	1.01e-09
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	8.83e-10
Xe28	128	54	5.14e-09		Pm45	145	61	0.00e+00
Xe29	129	54	2.53e-08		Pm46	146	61	0.00e+00
Xe30	130	54	1.05e-08		Pm47	147	61	0.00e+00
Xe31	131	54	2.12e-08		Pm48	148	61	0.00e+00
Xe32	132	54	3.59e-08		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	8.94e-09		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	1.43e-10
Xe36	136	54	7.26e-09		Sm45	145	62	0.00e+00
Cs33	133	55	7.75e-09		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	9.27e-10
Cs35	135	55	5.25e-10		Sm48	148	62	1.09e-09
Cs36	136	55	0.00e+00		Sm49	149	62	7.51e-10
Cs37	137	55	0.00e+00		Sm50	150	62	7.31e-10
Ba34	134	56	6.07e-09		Sm51	151	62	0.00e+00
Ba35	135	56	6.53e-09		Sm52	152	62	1.62e-09
Ba36	136	56	1.76e-08		Sm53	153	62	0.00e+00
Ba37	137	56	1.75e-08		Sm54	154	62	1.19e-09
Ba38	138	56	1.28e-07		Eu51	151	63	9.21e-10
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	1.02e-09
La39	139	57	1.55e-08		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	3.77e-08		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	2.45e-09		Gd52	152	64	1.83e-11
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	2.27e-10
Pr41	141	59	4.78e-09		Gd55	155	64	1.03e-09
Pr42	142	59	0.00e+00		Gd56	156	64	1.56e-09
Pr43	143	59	0.00e+00		Gd57	157	64	1.13e-09

Gd58	158	64	2.08e-09		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	3.89e-10
Gd60	160	64	1.50e-09		Hf77	177	72	8.17e-10
Tb59	159	65	1.28e-09		Hf78	178	72	1.54e-09
Tb60	160	65	0.00e+00		Hf79	179	72	6.97e-10
Tb61	161	65	0.00e+00		Hf80	180	72	2.33e-09
Dy60	160	66	3.40e-10		Hf81	181	72	0.00e+00
Dy61	161	66	1.57e-09		Hf82	182	72	2.24e-11
Dy62	162	66	2.36e-09		Hf83	183	72	0.00e+00
Dy63	163	66	2.09e-09		Hf84	184	72	0.00e+00
Dy64	164	66	2.82e-09		Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00		Ta80	180	73	1.40e-13
Dy66	166	66	0.00e+00		Ta81	181	73	6.83e-10
Ho63	163	67	2.89e-12		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta93	183	73	0.00e+00
Ho65	165	67	2.00e-09		Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00		W180	180	74	3.50e-12
Er64	164	68	1.51e-10		W181	181	74	0.00e+00
Er65	165	68	0.00e+00		W182	182	74	1.21e-09
Er66	166	68	2.05e-09		W183	183	74	7.05e-10
Er67	167	68	1.35e-09		W184	184	74	1.63e-09
Er68	168	68	1.93e-09		W185	185	74	0.00e+00
Er69	169	68	0.00e+00		W186	186	74	1.07e-09
Er70	170	68	9.25e-10		W187	187	74	0.00e+00
Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	5.96e-10
Tm69	169	69	8.84e-10		Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00		Re87	187	75	7.72e-10
Tm71	171	69	0.00e+00		Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00		Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00		Os86	186	76	5.14e-10
Yb70	170	70	3.12e-10		Os87	187	76	3.96e-10
Yb71	171	70	9.64e-10		Os88	188	76	2.63e-09
Yb72	172	70	1.67e-09		Os89	189	76	2.71e-09
Yb73	173	70	1.11e-09		Os90	190	76	4.82e-09
Yb74	174	70	2.81e-09		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	6.84e-09
Yb76	176	70	7.75e-10		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	9.07e-10		Ir91	191	77	5.90e-09
Lu76	176	71	4.57e-11		Ir92	192	77	0.00e+00

Isotope	A	Z	YIELD [$M_\odot$]
Ir93	193	77	9.96e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	4.29e-10
Pt93	193	78	0.00e+00
Pt94	194	78	1.14e-08
Pt95	195	78	1.14e-08
Pt96	196	78	9.25e-09
Pt97	197	78	0.00e+00
Pt98	198	78	2.43e-09
Au97	197	79	5.09e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.82e-09
Hg99	199	80	2.12e-09
Hg00	200	80	3.60e-09
Hg01	201	80	1.89e-09
Hg02	202	80	5.19e-09
Hg03	203	80	0.00e+00
Hg04	204	80	7.44e-10
Tl03	203	81	2.29e-09
Tl04	204	81	0.00e+00
Tl05	205	81	5.30e-09
Pb04	204	82	2.82e-09
Pb05	205	82	4.17e-11
Pb06	206	82	2.37e-08
Pb07	207	82	2.44e-08
Pb08	208	82	6.03e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	3.70e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 5.00; Z = 0.000100 [α/Fe]=0.5; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	2.68e+00
He4	4	2	1.33e+00
C12	12	6	1.46e-02
C13	13	6	3.65e-04
C14	14	6	5.40e-09
N14	14	7	7.70e-04
N15	15	7	2.65e-08
O16	16	8	1.09e-03
O17	17	8	6.45e-06
O18	18	8	1.56e-07
F18	18	9	0.00e+00
F19	19	9	1.47e-08
Ne20	20	10	1.07e-04
Ne21	21	10	9.65e-07
Ne22	22	10	1.12e-04
Na22	22	11	0.00e+00
Na23	23	11	1.18e-05
Na24	24	11	0.00e+00
Mg24	24	12	5.33e-05
Mg25	25	12	3.65e-05
Mg26	26	12	8.71e-05
Al26	26	13	4.96e-09
Al27	27	13	4.16e-06
Si28	28	14	6.89e-05
Si29	29	14	1.79e-06
Si30	30	14	2.49e-06
Si31	31	14	0.00e+00
Si32	32	14	6.66e-11
P31	31	15	9.77e-07
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	3.44e-05
S33	33	16	9.80e-08
S34	34	16	6.95e-07
S35	35	16	0.00e+00
S36	36	16	1.67e-08
Cl35	35	17	1.16e-07
Cl36	36	17	3.23e-10
Cl37	37	17	4.53e-08
Ar36	36	18	7.85e-06
Ar37	37	18	0.00e+00

Ar38	38	18	4.98e-07		Fe57	57	26	8.50e-07
Ar39	39	18	1.98e-11		Fe58	58	26	1.44e-07
Ar40	40	18	1.71e-08		Fe59	59	26	0.00e+00
Ar41	41	18	0.00e+00		Fe60	60	26	8.33e-08
Ar42	42	18	0.00e+00		Co59	59	27	1.19e-07
K39	39	19	1.11e-07		Co60	60	27	1.72e-13
K40	40	19	2.01e-10		Ni58	58	28	1.50e-06
K41	41	19	1.07e-08		Ni59	59	28	2.40e-10
K42	42	19	0.00e+00		Ni60	60	28	6.09e-07
K43	43	19	0.00e+00		Ni61	61	28	3.68e-08
Ca40	40	20	5.89e-06		Ni62	62	28	1.20e-07
Ca41	41	20	2.95e-10		Ni63	63	28	1.42e-11
Ca42	42	20	1.60e-08		Ni64	64	28	1.05e-07
Ca43	43	20	3.61e-09		Ni65	65	28	0.00e+00
Ca44	44	20	4.85e-08		Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00		Cu63	63	29	4.38e-08
Ca46	46	20	5.07e-09		Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00		Cu65	65	29	3.04e-08
Ca48	48	20	5.22e-09		Cu66	66	29	0.00e+00
Sc45	45	21	2.68e-09		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	3.13e-08
Sc47	47	21	0.00e+00		Zn65	65	30	0.00e+00
Sc48	48	21	0.00e+00		Zn66	66	30	3.61e-08
Sc49	49	21	0.00e+00		Zn67	67	30	6.79e-09
Ti46	46	22	8.02e-09		Zn68	68	30	4.21e-08
Ti47	47	22	7.50e-09		Zn69	69	30	0.00e+00
Ti48	48	22	6.89e-08		Zn70	70	30	1.13e-09
Ti49	49	22	6.97e-09		Ga69	69	31	5.40e-09
Ti50	50	22	9.89e-09		Ga70	70	31	0.00e+00
V50	50	23	2.86e-11		Ga71	71	31	3.58e-09
V51	51	23	1.21e-08		Ga72	72	31	0.00e+00
Cr50	50	24	2.27e-08		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	7.86e-09
Cr52	52	24	4.59e-07		Ge71	71	32	0.00e+00
Cr53	53	24	5.29e-08		Ge72	72	32	9.48e-09
Cr54	54	24	1.57e-08		Ge73	73	32	2.84e-09
Mn55	55	25	4.03e-07		Ge74	74	32	1.70e-08
Mn56	56	25	0.00e+00		Ge75	75	32	0.00e+00
Fe54	54	26	2.18e-06		Ge76	76	32	1.71e-09
Fe55	55	26	0.00e+00		Ge77	77	32	0.00e+00
Fe56	56	26	3.56e-05		As75	75	33	1.86e-09

As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	3.71e-09
Se77	77	34	1.70e-09
Se78	78	34	1.02e-08
Se79	79	34	1.56e-09
Se80	80	34	1.42e-08
Se81	81	34	0.00e+00
Se82	82	34	3.28e-09
Br79	79	35	8.07e-10
Br80	80	35	0.00e+00
Br81	81	35	2.51e-09
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	2.29e-10
Kr81	81	36	3.95e-11
Kr82	82	36	5.60e-09
Kr83	83	36	2.45e-09
Kr84	84	36	1.63e-08
Kr85	85	36	1.43e-13
Kr86	86	36	2.99e-08
Kr87	87	36	0.00e+00
Kr88	88	36	0.00e+00
Rb85	85	37	5.52e-09
Rb86	86	37	0.00e+00
Rb87	87	37	1.43e-08
Rb88	88	37	0.00e+00
Sr86	86	38	2.19e-09
Sr87	87	38	9.41e-10
Sr88	88	38	2.74e-08
Sr89	89	38	0.00e+00
Sr90	90	38	6.19e-13
Sr91	91	38	0.00e+00
Sr92	92	38	0.00e+00
Y89	89	39	7.22e-09
Y90	90	39	0.00e+00
Y91	91	39	0.00e+00
Y92	92	39	0.00e+00
Y93	93	39	0.00e+00
Zr90	90	40	5.38e-09

Zr91	91	40	1.72e-09
Zr92	92	40	2.74e-09
Zr93	93	40	1.00e-09
Zr94	94	40	3.35e-09
Zr95	95	40	0.00e+00
Zr96	96	40	2.34e-09
Zr97	97	40	0.00e+00
Nb93	93	41	7.88e-11
Nb94	94	41	0.00e+00
Nb95	95	41	0.00e+00
Nb96	96	41	0.00e+00
Nb97	97	41	0.00e+00
Mo92	92	42	3.05e-11
Mo93	93	42	0.00e+00
Mo94	94	42	2.01e-11
Mo95	95	42	5.37e-10
Mo96	96	42	6.61e-10
Mo97	97	42	3.83e-10
Mo98	98	42	1.22e-09
Mo99	99	42	0.00e+00
Mo00	100	42	1.87e-10
Tc97	97	43	0.00e+00
Tc98	98	43	0.00e+00
Tc99	99	43	1.44e-10
Ru96	96	44	7.65e-12
Ru97	97	44	0.00e+00
Ru98	98	44	2.65e-12
Ru99	99	44	4.63e-11
Ru00	100	44	5.31e-10
Ru01	101	44	1.50e-10
Ru02	102	44	8.22e-10
Ru03	103	44	0.00e+00
Ru04	104	44	1.81e-10
Ru05	105	44	0.00e+00
Ru06	106	44	0.00e+00
Rh03	103	45	1.76e-10
Rh05	105	45	0.00e+00
Pd04	104	46	3.68e-10
Pd05	105	46	1.39e-10
Pd06	106	46	5.34e-10
Pd07	107	46	9.48e-11

Pd08	108	46	6.33e-10
Pd09	109	46	0.00e+00
Pd10	110	46	1.61e-10
Ag07	107	47	2.17e-11
Ag09	109	47	1.99e-10
Ag11	111	47	0.00e+00
Cd08	108	48	1.61e-12
Cd09	109	48	0.00e+00
Cd10	110	48	4.56e-10
Cd11	111	48	1.88e-10
Cd12	112	48	6.85e-10
Cd13	113	48	2.04e-10
Cd14	114	48	9.66e-10
Cd15	115	48	0.00e+00
Cd16	116	48	4.38e-10
In13	113	49	7.00e-13
In15	115	49	2.13e-10
Sn14	114	50	2.23e-12
Sn15	115	50	1.15e-12
Sn16	116	50	1.04e-09
Sn17	117	50	4.10e-10
Sn18	118	50	1.92e-09
Sn19	119	50	5.76e-10
Sn20	120	50	3.00e-09
Sn21	121	50	0.00e+00
Sn22	122	50	1.76e-09
Sn23	123	50	0.00e+00
Sn24	124	50	9.14e-10
Sb21	121	51	2.58e-10
Sb22	122	51	0.00e+00
Sb23	123	51	1.99e-10
Sb24	124	51	0.00e+00
Sb25	125	51	0.00e+00
Te22	122	52	3.13e-10
Te23	123	52	1.02e-10
Te24	124	52	8.30e-10
Te25	125	52	3.36e-10
Te26	126	52	1.61e-09
Te27	127	52	0.00e+00
Te28	128	52	4.95e-10
Te30	130	52	1.67e-10

I127	127	53	3.09e-10
I128	128	53	0.00e+00
I129	129	53	1.53e-11
I130	130	53	0.00e+00
I131	131	53	0.00e+00
I132	132	53	0.00e+00
I133	133	53	0.00e+00
Xe28	128	54	4.62e-10
Xe29	129	54	3.46e-10
Xe30	130	54	9.57e-10
Xe31	131	54	3.92e-10
Xe32	132	54	1.84e-09
Xe33	133	54	0.00e+00
Xe34	134	54	1.43e-09
Xe35	135	54	0.00e+00
Xe36	136	54	2.87e-09
Cs33	133	55	2.99e-10
Cs34	134	55	0.00e+00
Cs35	135	55	3.25e-10
Cs36	136	55	0.00e+00
Cs37	137	55	7.70e-13
Ba34	134	56	4.37e-10
Ba35	135	56	1.61e-10
Ba36	136	56	1.35e-09
Ba37	137	56	3.75e-09
Ba38	138	56	7.32e-09
Ba39	139	56	0.00e+00
Ba40	140	56	0.00e+00
La39	139	57	7.45e-10
La40	140	57	0.00e+00
Ce40	140	58	9.31e-10
Ce41	141	58	0.00e+00
Ce42	142	58	2.59e-10
Ce43	143	58	0.00e+00
Ce44	144	58	0.00e+00
Pr41	141	59	1.34e-10
Pr42	142	59	0.00e+00
Pr43	143	59	0.00e+00
Pr45	145	59	0.00e+00
Nd42	142	60	1.50e-10
Nd43	143	60	6.35e-11

Nd44	144	60	2.28e-10		Tb59	159	65	2.03e-11
Nd45	145	60	4.61e-11		Tb60	160	65	0.00e+00
Nd46	146	60	1.91e-10		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	1.71e-11
Nd48	148	60	5.28e-11		Dy61	161	66	1.99e-11
Nd49	149	60	0.00e+00		Dy62	162	66	5.27e-11
Nd50	150	60	8.30e-12		Dy63	163	66	2.48e-11
Pm45	145	61	0.00e+00		Dy64	164	66	7.40e-11
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	8.43e-13
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	2.83e-11
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	9.02e-13		Er64	164	68	7.64e-12
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	3.54e-11
Sm47	147	62	2.70e-11		Er67	167	68	2.05e-11
Sm48	148	62	3.69e-11		Er68	168	68	5.75e-11
Sm49	149	62	1.44e-11		Er69	169	68	0.00e+00
Sm50	150	62	3.92e-11		Er70	170	68	4.03e-11
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	4.19e-11		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	1.67e-11
Sm54	154	62	2.96e-11		Tm70	170	69	0.00e+00
Eu51	151	63	1.12e-11		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00
Eu53	153	63	1.31e-11		Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00		Yb70	170	70	1.31e-11
Eu55	155	63	0.00e+00		Yb71	171	70	3.04e-11
Eu56	156	63	0.00e+00		Yb72	172	70	5.74e-11
Eu57	157	63	0.00e+00		Yb73	173	70	3.12e-11
Gd52	152	64	5.48e-13		Yb74	174	70	1.26e-10
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00
Gd54	154	64	8.69e-12		Yb76	176	70	4.53e-11
Gd55	155	64	1.65e-11		Yb77	177	70	0.00e+00
Gd56	156	64	3.65e-11		Lu75	175	71	2.20e-11
Gd57	157	64	2.01e-11		Lu76	176	71	2.84e-12
Gd58	158	64	6.12e-11		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	2.08e-11
Gd60	160	64	2.88e-11		Hf77	177	72	1.99e-11

Hf78	178	72	7.05e-11
Hf79	179	72	2.62e-11
Hf80	180	72	1.30e-10
Hf81	181	72	0.00e+00
Hf82	182	72	1.64e-11
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00
Ta81	181	73	3.16e-11
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	0.00e+00
W181	181	74	0.00e+00
W182	182	74	4.37e-11
W183	183	74	3.67e-11
W184	184	74	8.64e-11
W185	185	74	0.00e+00
W186	186	74	5.56e-11
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	2.18e-11
Re86	186	75	0.00e+00
Re87	187	75	1.87e-11
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	2.22e-11
Os87	187	76	7.53e-12
Os88	188	76	8.62e-11
Os89	189	76	3.24e-11
Os90	190	76	1.07e-10
Os91	191	76	0.00e+00
Os92	192	76	1.09e-10
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	5.17e-11
Ir92	192	77	0.00e+00
Ir93	193	77	8.58e-11
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00

Pt92	192	78	1.90e-11
Pt93	193	78	0.00e+00
Pt94	194	78	1.86e-10
Pt95	195	78	1.12e-10
Pt96	196	78	1.95e-10
Pt97	197	78	0.00e+00
Pt98	198	78	4.86e-11
Au97	197	79	7.39e-11
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.19e-10
Hg99	199	80	7.44e-11
Hg00	200	80	2.16e-10
Hg01	201	80	9.69e-11
Hg02	202	80	3.48e-10
Hg03	203	80	0.00e+00
Hg04	204	80	4.30e-11
Tl03	203	81	1.67e-10
Tl04	204	81	0.00e+00
Tl05	205	81	1.77e-10
Pb04	204	82	1.75e-10
Pb05	205	82	7.35e-11
Pb06	206	82	1.54e-09
Pb07	207	82	1.37e-09
Pb08	208	82	1.04e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	3.86e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 5.00; Z = 0.000100 [α/Fe]=0.5; IRV = 30 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	2.69e+00
He4	4	2	1.33e+00
C12	12	6	1.49e-02

C13	13	6	3.61e-04
C14	14	6	7.98e-09
N14	14	7	7.22e-04
N15	15	7	2.14e-08
O16	16	8	1.10e-03
O17	17	8	6.54e-06
O18	18	8	1.69e-07
F18	18	9	0.00e+00
F19	19	9	1.64e-08
Ne20	20	10	1.08e-04
Ne21	21	10	9.88e-07
Ne22	22	10	1.17e-04
Na22	22	11	0.00e+00
Na23	23	11	1.18e-05
Na24	24	11	0.00e+00
Mg24	24	12	5.32e-05
Mg25	25	12	3.70e-05
Mg26	26	12	8.82e-05
Al26	26	13	4.63e-09
Al27	27	13	4.16e-06
Si28	28	14	6.90e-05
Si29	29	14	1.81e-06
Si30	30	14	2.51e-06
Si31	31	14	0.00e+00
Si32	32	14	6.44e-11
P31	31	15	9.76e-07
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	3.44e-05
S33	33	16	9.83e-08
S34	34	16	6.91e-07
S35	35	16	0.00e+00
S36	36	16	1.56e-08
Cl35	35	17	1.16e-07
Cl36	36	17	3.25e-10
Cl37	37	17	4.77e-08
Ar36	36	18	7.84e-06
Ar37	37	18	0.00e+00
Ar38	38	18	4.99e-07
Ar39	39	18	1.97e-11
Ar40	40	18	1.74e-08

Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	1.11e-07
K40	40	19	2.31e-10
K41	41	19	1.15e-08
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	5.89e-06
Ca41	41	20	2.89e-10
Ca42	42	20	1.61e-08
Ca43	43	20	3.63e-09
Ca44	44	20	4.86e-08
Ca45	45	20	0.00e+00
Ca46	46	20	5.14e-09
Ca47	47	20	0.00e+00
Ca48	48	20	5.23e-09
Sc45	45	21	2.70e-09
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	8.03e-09
Ti47	47	22	7.50e-09
Ti48	48	22	6.89e-08
Ti49	49	22	7.04e-09
Ti50	50	22	9.96e-09
V50	50	23	2.85e-11
V51	51	23	1.21e-08
Cr50	50	24	2.27e-08
Cr51	51	24	0.00e+00
Cr52	52	24	4.59e-07
Cr53	53	24	5.28e-08
Cr54	54	24	1.59e-08
Mn55	55	25	4.04e-07
Mn56	56	25	0.00e+00
Fe54	54	26	2.18e-06
Fe55	55	26	0.00e+00
Fe56	56	26	3.56e-05
Fe57	57	26	8.53e-07
Fe58	58	26	1.46e-07
Fe59	59	26	0.00e+00

Fe60	60	26	8.52e-08		Se77	77	34	1.73e-09
Co59	59	27	1.20e-07		Se78	78	34	1.04e-08
Co60	60	27	1.75e-13		Se79	79	34	1.59e-09
Ni58	58	28	1.50e-06		Se80	80	34	1.44e-08
Ni59	59	28	3.13e-10		Se81	81	34	0.00e+00
Ni60	60	28	6.09e-07		Se82	82	34	3.32e-09
Ni61	61	28	3.74e-08		Br79	79	35	8.17e-10
Ni62	62	28	1.21e-07		Br80	80	35	0.00e+00
Ni63	63	28	1.40e-11		Br81	81	35	2.55e-09
Ni64	64	28	1.07e-07		Br82	82	35	0.00e+00
Ni65	65	28	0.00e+00		Br83	83	35	0.00e+00
Ni66	66	28	0.00e+00		Br84	84	35	0.00e+00
Cu63	63	29	4.46e-08		Kr80	80	36	2.33e-10
Cu64	64	29	0.00e+00		Kr81	81	36	4.02e-11
Cu65	65	29	3.09e-08		Kr82	82	36	5.70e-09
Cu66	66	29	0.00e+00		Kr83	83	36	2.49e-09
Cu67	67	29	0.00e+00		Kr84	84	36	1.66e-08
Zn64	64	30	3.13e-08		Kr85	85	36	1.38e-13
Zn65	65	30	0.00e+00		Kr86	86	36	3.04e-08
Zn66	66	30	3.65e-08		Kr87	87	36	0.00e+00
Zn67	67	30	6.89e-09		Kr88	88	36	0.00e+00
Zn68	68	30	4.27e-08		Rb85	85	37	5.61e-09
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	1.14e-09		Rb87	87	37	1.45e-08
Ga69	69	31	5.50e-09		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	2.24e-09
Ga71	71	31	3.64e-09		Sr87	87	38	9.60e-10
Ga72	72	31	0.00e+00		Sr88	88	38	2.79e-08
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	8.01e-09		Sr90	90	38	5.98e-13
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	9.65e-09		Sr92	92	38	0.00e+00
Ge73	73	32	2.89e-09		Y89	89	39	7.37e-09
Ge74	74	32	1.73e-08		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	1.73e-09		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	1.89e-09		Zr90	90	40	5.49e-09
As76	76	33	0.00e+00		Zr91	91	40	1.76e-09
As77	77	33	0.00e+00		Zr92	92	40	2.80e-09
Se76	76	34	3.78e-09		Zr93	93	40	1.02e-09

Zr94	94	40	3.42e-09		Ag07	107	47	2.17e-11
Zr95	95	40	0.00e+00		Ag09	109	47	2.04e-10
Zr96	96	40	2.40e-09		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	1.75e-12
Nb93	93	41	7.99e-11		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	4.67e-10
Nb95	95	41	0.00e+00		Cd11	111	48	1.92e-10
Nb96	96	41	0.00e+00		Cd12	112	48	7.00e-10
Nb97	97	41	0.00e+00		Cd13	113	48	2.08e-10
Mo92	92	42	3.04e-11		Cd14	114	48	9.88e-10
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	2.04e-11		Cd16	116	48	4.46e-10
Mo95	95	42	5.48e-10		In13	113	49	6.98e-13
Mo96	96	42	6.77e-10		In15	115	49	2.17e-10
Mo97	97	42	3.91e-10		Sn14	114	50	2.24e-12
Mo98	98	42	1.25e-09		Sn15	115	50	1.15e-12
Mo99	99	42	0.00e+00		Sn16	116	50	1.07e-09
Mo00	100	42	1.91e-10		Sn17	117	50	4.19e-10
Tc97	97	43	0.00e+00		Sn18	118	50	1.96e-09
Tc98	98	43	0.00e+00		Sn19	119	50	5.89e-10
Tc99	99	43	1.47e-10		Sn20	120	50	3.07e-09
Ru96	96	44	7.62e-12		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	1.80e-09
Ru98	98	44	2.65e-12		Sn23	123	50	0.00e+00
Ru99	99	44	4.76e-11		Sn24	124	50	9.37e-10
Ru00	100	44	5.43e-10		Sb21	121	51	2.63e-10
Ru01	101	44	1.53e-10		Sb22	122	51	0.00e+00
Ru02	102	44	8.40e-10		Sb23	123	51	2.03e-10
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	1.84e-10		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	3.20e-10
Ru06	106	44	0.00e+00		Te23	123	52	1.05e-10
Rh03	103	45	1.79e-10		Te24	124	52	8.49e-10
Rh05	105	45	0.00e+00		Te25	125	52	3.43e-10
Pd04	104	46	3.77e-10		Te26	126	52	1.65e-09
Pd05	105	46	1.41e-10		Te27	127	52	0.00e+00
Pd06	106	46	5.46e-10		Te28	128	52	5.02e-10
Pd07	107	46	9.71e-11		Te30	130	52	1.67e-10
Pd08	108	46	6.47e-10		I127	127	53	3.14e-10
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	1.63e-10		I129	129	53	1.56e-11

I130	130	53	0.00e+00	Nd47	147	60	0.00e+00
I131	131	53	0.00e+00	Nd48	148	60	5.82e-11
I132	132	53	0.00e+00	Nd49	149	60	0.00e+00
I133	133	53	0.00e+00	Nd50	150	60	8.58e-12
Xe28	128	54	4.74e-10	Pm45	145	61	0.00e+00
Xe29	129	54	3.50e-10	Pm46	146	61	0.00e+00
Xe30	130	54	9.82e-10	Pm47	147	61	0.00e+00
Xe31	131	54	3.98e-10	Pm48	148	61	0.00e+00
Xe32	132	54	1.88e-09	Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00	Pm50	150	61	0.00e+00
Xe34	134	54	1.47e-09	Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00	Sm44	144	62	9.00e-13
Xe36	136	54	2.99e-09	Sm45	145	62	0.00e+00
Cs33	133	55	3.06e-10	Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00	Sm47	147	62	2.96e-11
Cs35	135	55	3.34e-10	Sm48	148	62	4.12e-11
Cs36	136	55	0.00e+00	Sm49	149	62	1.56e-11
Cs37	137	55	7.53e-13	Sm50	150	62	4.38e-11
Ba34	134	56	4.49e-10	Sm51	151	62	0.00e+00
Ba35	135	56	1.64e-10	Sm52	152	62	4.60e-11
Ba36	136	56	1.39e-09	Sm53	153	62	0.00e+00
Ba37	137	56	3.87e-09	Sm54	154	62	3.21e-11
Ba38	138	56	7.76e-09	Eu51	151	63	1.19e-11
Ba39	139	56	0.00e+00	Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00	Eu53	153	63	1.40e-11
La39	139	57	7.97e-10	Eu54	154	63	0.00e+00
La40	140	57	0.00e+00	Eu55	155	63	0.00e+00
Ce40	140	58	1.02e-09	Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00	Eu57	157	63	0.00e+00
Ce42	142	58	2.84e-10	Gd52	152	64	6.11e-13
Ce43	143	58	0.00e+00	Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00	Gd54	154	64	9.65e-12
Pr41	141	59	1.45e-10	Gd55	155	64	1.77e-11
Pr42	142	59	0.00e+00	Gd56	156	64	4.00e-11
Pr43	143	59	0.00e+00	Gd57	157	64	2.18e-11
Pr45	145	59	0.00e+00	Gd58	158	64	6.77e-11
Nd42	142	60	1.66e-10	Gd59	159	64	0.00e+00
Nd43	143	60	6.92e-11	Gd60	160	64	3.10e-11
Nd44	144	60	2.52e-10	Tb59	159	65	2.19e-11
Nd45	145	60	5.04e-11	Tb60	160	65	0.00e+00
Nd46	146	60	2.12e-10	Tb61	161	65	0.00e+00

Dy60	160	66	1.92e-11		Hf81	181	72	0.00e+00
Dy61	161	66	2.12e-11		Hf82	182	72	1.87e-11
Dy62	162	66	5.78e-11		Hf83	183	72	0.00e+00
Dy63	163	66	2.64e-11		Hf84	184	72	0.00e+00
Dy64	164	66	8.18e-11		Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00		Ta80	180	73	0.00e+00
Dy66	166	66	0.00e+00		Ta81	181	73	3.58e-11
Ho63	163	67	8.91e-13		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta83	183	73	0.00e+00
Ho65	165	67	3.04e-11		Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00		W180	180	74	0.00e+00
Er64	164	68	8.52e-12		W181	181	74	0.00e+00
Er65	165	68	0.00e+00		W182	182	74	4.96e-11
Er66	166	68	3.86e-11		W183	183	74	4.17e-11
Er67	167	68	2.22e-11		W184	184	74	9.87e-11
Er68	168	68	6.41e-11		W185	185	74	0.00e+00
Er69	169	68	0.00e+00		W186	186	74	6.31e-11
Er70	170	68	4.48e-11		W187	187	74	0.00e+00
Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	2.47e-11
Tm69	169	69	1.82e-11		Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00		Re87	187	75	2.08e-11
Tm71	171	69	0.00e+00		Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00		Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00		Os86	186	76	2.55e-11
Yb70	170	70	1.47e-11		Os87	187	76	8.41e-12
Yb71	171	70	3.38e-11		Os88	188	76	9.74e-11
Yb72	172	70	6.43e-11		Os89	189	76	3.48e-11
Yb73	173	70	3.47e-11		Os90	190	76	1.20e-10
Yb74	174	70	1.43e-10		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	1.19e-10
Yb76	176	70	5.07e-11		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	2.44e-11		Ir91	191	77	5.40e-11
Lu76	176	71	3.23e-12		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	8.93e-11
Hf76	176	72	2.35e-11		Ir94	194	77	0.00e+00
Hf77	177	72	2.20e-11		Ir95	195	77	0.00e+00
Hf78	178	72	7.96e-11		Pt92	192	78	2.18e-11
Hf79	179	72	2.95e-11		Pt93	193	78	0.00e+00
Hf80	180	72	1.48e-10		Pt94	194	78	2.05e-10

Isotope	A	Z	YIELD
Pt95	195	78	1.19e-10
Pt96	196	78	2.19e-10
Pt97	197	78	0.00e+00
Pt98	198	78	5.39e-11
Au97	197	79	8.10e-11
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.39e-10
Hg99	199	80	8.51e-11
Hg00	200	80	2.50e-10
Hg01	201	80	1.12e-10
Hg02	202	80	4.07e-10
Hg03	203	80	0.00e+00
Hg04	204	80	5.00e-11
Tl03	203	81	1.96e-10
Tl04	204	81	0.00e+00
Tl05	205	81	2.09e-10
Pb04	204	82	2.06e-10
Pb05	205	82	8.57e-11
Pb06	206	82	1.57e-09
Pb07	207	82	1.50e-09
Pb08	208	82	5.76e-09
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	2.11e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_{\odot}$ = 5.00; Z = 0.000300 [α/Fe]=0.5; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_{\odot}$]
H	1	1	2.70e+00
He4	4	2	1.33e+00
C12	12	6	8.97e-03
C13	13	6	6.79e-05
C14	14	6	1.15e-09
N14	14	7	4.40e-04

Isotope	A	Z	YIELD
N15	15	7	8.11e-08
O16	16	8	1.69e-03
O17	17	8	1.52e-05
O18	18	8	6.17e-07
F18	18	9	0.00e+00
F19	19	9	1.06e-07
Ne20	20	10	2.82e-04
Ne21	21	10	6.13e-07
Ne22	22	10	8.90e-05
Na22	22	11	0.00e+00
Na23	23	11	2.52e-05
Na24	24	11	0.00e+00
Mg24	24	12	1.48e-04
Mg25	25	12	1.79e-05
Mg26	26	12	3.61e-05
Al26	26	13	8.19e-09
Al27	27	13	6.49e-06
Si28	28	14	1.96e-04
Si29	29	14	3.88e-06
Si30	30	14	3.42e-06
Si31	31	14	0.00e+00
Si32	32	14	4.83e-11
P31	31	15	9.86e-07
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	1.01e-04
S33	33	16	2.72e-07
S34	34	16	1.67e-06
S35	35	16	0.00e+00
S36	36	16	1.50e-08
Cl35	35	17	3.30e-07
Cl36	36	17	3.11e-10
Cl37	37	17	1.28e-07
Ar36	36	18	2.31e-05
Ar37	37	18	0.00e+00
Ar38	38	18	1.45e-06
Ar39	39	18	1.09e-10
Ar40	40	18	1.93e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	3.17e-07

K40	40	19	6.12e-10
K41	41	19	2.78e-08
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	1.74e-05
Ca41	41	20	1.16e-09
Ca42	42	20	4.28e-08
Ca43	43	20	9.47e-09
Ca44	44	20	1.36e-07
Ca45	45	20	0.00e+00
Ca46	46	20	4.71e-09
Ca47	47	20	0.00e+00
Ca48	48	20	1.30e-08
Sc45	45	21	5.50e-09
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	2.23e-08
Ti47	47	22	2.04e-08
Ti48	48	22	2.00e-07
Ti49	49	22	1.65e-08
Ti50	50	22	1.86e-08
V50	50	23	8.42e-11
V51	51	23	3.48e-08
Cr50	50	24	6.69e-08
Cr51	51	24	0.00e+00
Cr52	52	24	1.35e-06
Cr53	53	24	1.56e-07
Cr54	54	24	4.43e-08
Mn55	55	25	1.18e-06
Mn56	56	25	0.00e+00
Fe54	54	26	6.43e-06
Fe55	55	26	0.00e+00
Fe56	56	26	1.05e-04
Fe57	57	26	2.51e-06
Fe58	58	26	4.68e-07
Fe59	59	26	0.00e+00
Fe60	60	26	1.66e-07
Co59	59	27	3.68e-07
Co60	60	27	3.62e-13

Ni58	58	28	4.43e-06
Ni59	59	28	1.02e-09
Ni60	60	28	1.80e-06
Ni61	61	28	1.06e-07
Ni62	62	28	3.28e-07
Ni63	63	28	1.49e-10
Ni64	64	28	1.78e-07
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	1.03e-07
Cu64	64	29	0.00e+00
Cu65	65	29	5.14e-08
Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	9.22e-08
Zn65	65	30	0.00e+00
Zn66	66	30	7.40e-08
Zn67	67	30	1.25e-08
Zn68	68	30	6.61e-08
Zn69	69	30	0.00e+00
Zn70	70	30	1.81e-09
Ga69	69	31	7.55e-09
Ga70	70	31	0.00e+00
Ga71	71	31	4.93e-09
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	1.02e-08
Ge71	71	32	0.00e+00
Ge72	72	32	1.23e-08
Ge73	73	32	3.61e-09
Ge74	74	32	1.96e-08
Ge75	75	32	0.00e+00
Ge76	76	32	2.41e-09
Ge77	77	32	0.00e+00
As75	75	33	2.31e-09
As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	3.87e-09
Se77	77	34	2.05e-09
Se78	78	34	1.02e-08
Se79	79	34	1.29e-09

Se80	80	34	1.54e-08		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	1.72e-10
Se82	82	34	2.42e-09		Nb94	94	41	0.00e+00
Br79	79	35	1.34e-09		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	2.68e-09		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	8.99e-11
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	5.89e-11
Kr80	80	36	3.63e-10		Mo95	95	42	3.52e-10
Kr81	81	36	3.38e-11		Mo96	96	42	4.15e-10
Kr82	82	36	5.08e-09		Mo97	97	42	2.34e-10
Kr83	83	36	2.70e-09		Mo98	98	42	7.08e-10
Kr84	84	36	1.61e-08		Mo99	99	42	0.00e+00
Kr85	85	36	1.67e-13		Mo00	100	42	1.37e-10
Kr86	86	36	1.91e-08		Tc97	97	43	0.00e+00
Kr87	87	36	0.00e+00		Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00		Tc99	99	43	7.20e-11
Rb85	85	37	4.49e-09		Ru96	96	44	2.26e-11
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	8.79e-09		Ru98	98	44	7.80e-12
Rb88	88	37	0.00e+00		Ru99	99	44	6.25e-11
Sr86	86	38	1.87e-09		Ru00	100	44	2.93e-10
Sr87	87	38	9.14e-10		Ru01	101	44	1.31e-10
Sr88	88	38	1.88e-08		Ru02	102	44	4.93e-10
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	2.08e-12		Ru04	104	44	1.48e-10
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	4.75e-09		Rh03	103	45	1.54e-10
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	2.02e-10
Y92	92	39	0.00e+00		Pd05	105	46	1.29e-10
Y93	93	39	0.00e+00		Pd06	106	46	3.23e-10
Zr90	90	40	3.94e-09		Pd07	107	46	4.30e-11
Zr91	91	40	1.14e-09		Pd08	108	46	3.63e-10
Zr92	92	40	1.78e-09		Pd09	109	46	0.00e+00
Zr93	93	40	5.24e-10		Pd10	110	46	1.03e-10
Zr94	94	40	2.06e-09		Ag07	107	47	6.28e-11
Zr95	95	40	0.00e+00		Ag09	109	47	1.39e-10
Zr96	96	40	1.19e-09		Ag11	111	47	0.00e+00

Cd08	108	48	4.58e-12
Cd09	109	48	0.00e+00
Cd10	110	48	2.45e-10
Cd11	111	48	1.27e-10
Cd12	112	48	3.81e-10
Cd13	113	48	1.31e-10
Cd14	114	48	5.14e-10
Cd15	115	48	0.00e+00
Cd16	116	48	1.96e-10
In13	113	49	2.06e-12
In15	115	49	1.30e-10
Sn14	114	50	6.57e-12
Sn15	115	50	3.40e-12
Sn16	116	50	5.63e-10
Sn17	117	50	2.34e-10
Sn18	118	50	9.68e-10
Sn19	119	50	3.00e-10
Sn20	120	50	1.38e-09
Sn21	121	50	0.00e+00
Sn22	122	50	5.56e-10
Sn23	123	50	0.00e+00
Sn24	124	50	2.71e-10
Sb21	121	51	1.39e-10
Sb22	122	51	0.00e+00
Sb23	123	51	9.70e-11
Sb24	124	51	0.00e+00
Sb25	125	51	0.00e+00
Te22	122	52	1.43e-10
Te23	123	52	4.74e-11
Te24	124	52	3.33e-10
Te25	125	52	1.95e-10
Te26	126	52	7.38e-10
Te27	127	52	0.00e+00
Te28	128	52	5.43e-10
Te30	130	52	4.93e-10
I127	127	53	3.58e-10
I128	128	53	0.00e+00
I129	129	53	4.32e-12
I130	130	53	0.00e+00
I131	131	53	0.00e+00
I132	132	53	0.00e+00

I133	133	53	0.00e+00
Xe28	128	54	1.77e-10
Xe29	129	54	4.98e-10
Xe30	130	54	3.52e-10
Xe31	131	54	4.34e-10
Xe32	132	54	9.16e-10
Xe33	133	54	0.00e+00
Xe34	134	54	4.98e-10
Xe35	135	54	0.00e+00
Xe36	136	54	5.06e-10
Cs33	133	55	1.85e-10
Cs34	134	55	0.00e+00
Cs35	135	55	8.44e-11
Cs36	136	55	0.00e+00
Cs37	137	55	1.14e-12
Ba34	134	56	1.53e-10
Ba35	135	56	1.28e-10
Ba36	136	56	4.64e-10
Ba37	137	56	1.05e-09
Ba38	138	56	3.18e-09
Ba39	139	56	0.00e+00
Ba40	140	56	0.00e+00
La39	139	57	3.72e-10
La40	140	57	0.00e+00
Ce40	140	58	7.11e-10
Ce41	141	58	0.00e+00
Ce42	142	58	1.38e-10
Ce43	143	58	0.00e+00
Ce44	144	58	0.00e+00
Pr41	141	59	1.05e-10
Pr42	142	59	0.00e+00
Pr43	143	59	0.00e+00
Pr45	145	59	0.00e+00
Nd42	142	60	1.41e-10
Nd43	143	60	5.62e-11
Nd44	144	60	1.55e-10
Nd45	145	60	3.97e-11
Nd46	146	60	1.27e-10
Nd47	147	60	0.00e+00
Nd48	148	60	3.66e-11
Nd49	149	60	0.00e+00

Nd50	150	60	1.74e-11		Dy63	163	66	4.21e-11
Pm45	145	61	0.00e+00		Dy64	164	66	7.07e-11
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	4.37e-13
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	4.17e-11
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	2.66e-12		Er64	164	68	4.84e-12
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	4.51e-11
Sm47	147	62	2.31e-11		Er67	167	68	2.88e-11
Sm48	148	62	2.59e-11		Er68	168	68	5.05e-11
Sm49	149	62	1.67e-11		Er69	169	68	0.00e+00
Sm50	150	62	2.37e-11		Er70	170	68	3.09e-11
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	3.96e-11		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	2.01e-11
Sm54	154	62	3.06e-11		Tm70	170	69	0.00e+00
Eu51	151	63	1.83e-11		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00
Eu53	153	63	2.08e-11		Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00		Yb70	170	70	8.95e-12
Eu55	155	63	0.00e+00		Yb71	171	70	2.63e-11
Eu56	156	63	0.00e+00		Yb72	172	70	4.58e-11
Eu57	157	63	0.00e+00		Yb73	173	70	2.85e-11
Gd52	152	64	7.27e-13		Yb74	174	70	8.83e-11
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00
Gd54	154	64	6.56e-12		Yb76	176	70	3.12e-11
Gd55	155	64	2.23e-11		Yb77	177	70	0.00e+00
Gd56	156	64	3.78e-11		Lu75	175	71	2.22e-11
Gd57	157	64	2.51e-11		Lu76	176	71	4.42e-12
Gd58	158	64	5.42e-11		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	6.87e-12
Gd60	160	64	3.52e-11		Hf77	177	72	2.07e-11
Tb59	159	65	2.75e-11		Hf78	178	72	5.07e-11
Tb60	160	65	0.00e+00		Hf79	179	72	2.08e-11
Tb61	161	65	0.00e+00		Hf80	180	72	8.47e-11
Dy60	160	66	1.12e-11		Hf81	181	72	0.00e+00
Dy61	161	66	3.20e-11		Hf82	182	72	7.26e-12
Dy62	162	66	5.64e-11		Hf83	183	72	0.00e+00

Isotope	A	Z	Yield
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00
Ta81	181	73	2.26e-11
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	0.00e+00
W181	181	74	0.00e+00
W182	182	74	3.38e-11
W183	183	74	2.45e-11
W184	184	74	5.69e-11
W185	185	74	0.00e+00
W186	186	74	4.03e-11
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	1.78e-11
Re86	186	75	0.00e+00
Re87	187	75	2.02e-11
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	1.50e-11
Os87	187	76	8.34e-12
Os88	188	76	7.48e-11
Os89	189	76	5.53e-11
Os90	190	76	1.19e-10
Os91	191	76	0.00e+00
Os92	192	76	1.54e-10
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	1.13e-10
Ir92	192	77	0.00e+00
Ir93	193	77	1.91e-10
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	1.53e-11
Pt93	193	78	0.00e+00
Pt94	194	78	2.58e-10
Pt95	195	78	2.26e-10
Pt96	196	78	2.26e-10
Pt97	197	78	0.00e+00

Isotope	A	Z	Yield
Pt98	198	78	5.80e-11
Au97	197	79	1.10e-10
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	7.42e-11
Hg99	199	80	6.18e-11
Hg00	200	80	1.37e-10
Hg01	201	80	6.55e-11
Hg02	202	80	2.04e-10
Hg03	203	80	0.00e+00
Hg04	204	80	2.64e-11
Tl03	203	81	9.45e-11
Tl04	204	81	0.00e+00
Tl05	205	81	1.36e-10
Pb04	204	82	1.03e-10
Pb05	205	82	2.19e-11
Pb06	206	82	1.30e-09
Pb07	207	82	1.23e-09
Pb08	208	82	2.21e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	7.18e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_{\odot}$ = 5.00; Z = 0.001000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_{\odot}$]
H	1	1	2.74e+00
He4	4	2	1.31e+00
C12	12	6	7.04e-03
C13	13	6	5.06e-05
C14	14	6	4.90e-10
N14	14	7	8.27e-04
N15	15	7	2.88e-07
O16	16	8	1.75e-03
O17	17	8	1.57e-05

O18	18	8	2.17e-06
F18	18	9	0.00e+00
F19	19	9	1.56e-07
Ne20	20	10	3.02e-04
Ne21	21	10	1.03e-06
Ne22	22	10	7.45e-05
Na22	22	11	0.00e+00
Na23	23	11	3.32e-05
Na24	24	11	0.00e+00
Mg24	24	12	1.57e-04
Mg25	25	12	2.69e-05
Mg26	26	12	4.40e-05
Al26	26	13	1.61e-08
Al27	27	13	1.95e-05
Si28	28	14	2.07e-04
Si29	29	14	1.12e-05
Si30	30	14	8.04e-06
Si31	31	14	0.00e+00
Si32	32	14	4.91e-12
P31	31	15	2.09e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	1.07e-04
S33	33	16	8.78e-07
S34	34	16	5.16e-06
S35	35	16	0.00e+00
S36	36	16	2.86e-08
Cl35	35	17	1.10e-06
Cl36	36	17	4.27e-10
Cl37	37	17	3.87e-07
Ar36	36	18	2.45e-05
Ar37	37	18	0.00e+00
Ar38	38	18	4.75e-06
Ar39	39	18	4.94e-11
Ar40	40	18	1.85e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	1.03e-06
K40	40	19	1.86e-09
K41	41	19	8.11e-08
K42	42	19	0.00e+00

K43	43	19	0.00e+00
Ca40	40	20	1.84e-05
Ca41	41	20	1.17e-09
Ca42	42	20	1.33e-07
Ca43	43	20	2.87e-08
Ca44	44	20	4.40e-07
Ca45	45	20	0.00e+00
Ca46	46	20	3.45e-09
Ca47	47	20	0.00e+00
Ca48	48	20	4.28e-08
Sc45	45	21	1.35e-08
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	7.23e-08
Ti47	47	22	6.63e-08
Ti48	48	22	6.68e-07
Ti49	49	22	5.18e-08
Ti50	50	22	5.33e-08
V50	50	23	2.82e-10
V51	51	23	1.16e-07
Cr50	50	24	2.25e-07
Cr51	51	24	0.00e+00
Cr52	52	24	4.52e-06
Cr53	53	24	5.22e-07
Cr54	54	24	1.44e-07
Mn55	55	25	3.97e-06
Mn56	56	25	0.00e+00
Fe54	54	26	2.16e-05
Fe55	55	26	0.00e+00
Fe56	56	26	3.52e-04
Fe57	57	26	8.44e-06
Fe58	58	26	1.61e-06
Fe59	59	26	0.00e+00
Fe60	60	26	2.79e-07
Co59	59	27	1.22e-06
Co60	60	27	6.44e-13
Ni58	58	28	1.48e-05
Ni59	59	28	3.41e-09
Ni60	60	28	6.01e-06

Ni61	61	28	3.28e-07		Br79	79	35	3.97e-09
Ni62	62	28	9.56e-07		Br80	80	35	0.00e+00
Ni63	63	28	1.04e-10		Br81	81	35	5.35e-09
Ni64	64	28	4.03e-07		Br82	82	35	0.00e+00
Ni65	65	28	0.00e+00		Br83	83	35	0.00e+00
Ni66	66	28	0.00e+00		Br84	84	35	0.00e+00
Cu63	63	29	2.76e-07		Kr80	80	36	1.02e-09
Cu64	64	29	0.00e+00		Kr81	81	36	5.44e-11
Cu65	65	29	1.18e-07		Kr82	82	36	9.63e-09
Cu66	66	29	0.00e+00		Kr83	83	36	6.12e-09
Cu67	67	29	0.00e+00		Kr84	84	36	3.38e-08
Zn64	64	30	3.09e-07		Kr85	85	36	1.76e-13
Zn65	65	30	0.00e+00		Kr86	86	36	2.49e-08
Zn66	66	30	2.16e-07		Kr87	87	36	0.00e+00
Zn67	67	30	3.48e-08		Kr88	88	36	0.00e+00
Zn68	68	30	1.73e-07		Rb85	85	37	7.71e-09
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	5.04e-09		Rb87	87	37	1.05e-08
Ga69	69	31	1.84e-08		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	3.38e-09
Ga71	71	31	1.21e-08		Sr87	87	38	1.90e-09
Ga72	72	31	0.00e+00		Sr88	88	38	2.93e-08
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	2.36e-08		Sr90	90	38	6.44e-13
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	2.92e-08		Sr92	92	38	0.00e+00
Ge73	73	32	8.40e-09		Y89	89	39	7.22e-09
Ge74	74	32	3.84e-08		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	5.87e-09		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	4.77e-09		Zr90	90	40	6.94e-09
As76	76	33	0.00e+00		Zr91	91	40	1.84e-09
As77	77	33	0.00e+00		Zr92	92	40	2.97e-09
Se76	76	34	7.99e-09		Zr93	93	40	5.14e-10
Se77	77	34	4.78e-09		Zr94	94	40	3.24e-09
Se78	78	34	1.59e-08		Zr95	95	40	0.00e+00
Se79	79	34	1.97e-09		Zr96	96	40	2.34e-09
Se80	80	34	3.44e-08		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	5.58e-10
Se82	82	34	4.77e-09		Nb94	94	41	0.00e+00

Nb95	95	41	0.00e+00		Cd11	111	48	2.29e-10
Nb96	96	41	0.00e+00		Cd12	112	48	5.35e-10
Nb97	97	41	0.00e+00		Cd13	113	48	2.28e-10
Mo92	92	42	3.02e-10		Cd14	114	48	6.79e-10
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	1.96e-10		Cd16	116	48	2.04e-10
Mo95	95	42	5.67e-10		In13	113	49	6.81e-12
Mo96	96	42	6.57e-10		In15	115	49	2.12e-10
Mo97	97	42	3.70e-10		Sn14	114	50	2.20e-11
Mo98	98	42	1.00e-09		Sn15	115	50	1.14e-11
Mo99	99	42	0.00e+00		Sn16	116	50	7.82e-10
Mo00	100	42	2.64e-10		Sn17	117	50	3.66e-10
Tc97	97	43	2.76e-13		Sn18	118	50	1.30e-09
Tc98	98	43	0.00e+00		Sn19	119	50	4.31e-10
Tc99	99	43	6.02e-11		Sn20	120	50	1.82e-09
Ru96	96	44	7.57e-11		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	4.76e-10
Ru98	98	44	2.62e-11		Sn23	123	50	0.00e+00
Ru99	99	44	1.87e-10		Sn24	124	50	3.28e-10
Ru00	100	44	3.80e-10		Sb21	121	51	2.34e-10
Ru01	101	44	2.90e-10		Sb22	122	51	0.00e+00
Ru02	102	44	6.89e-10		Sb23	123	51	1.71e-10
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	3.20e-10		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	1.92e-10
Ru06	106	44	0.00e+00		Te23	123	52	6.56e-11
Rh03	103	45	3.41e-10		Te24	124	52	4.03e-10
Rh05	105	45	0.00e+00		Te25	125	52	3.96e-10
Pd04	104	46	2.63e-10		Te26	126	52	1.22e-09
Pd05	105	46	3.04e-10		Te27	127	52	0.00e+00
Pd06	106	46	5.01e-10		Te28	128	52	1.58e-09
Pd07	107	46	3.33e-11		Te30	130	52	1.65e-09
Pd08	108	46	5.21e-10		I127	127	53	1.03e-09
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	1.81e-10		I129	129	53	2.52e-12
Ag07	107	47	2.11e-10		I130	130	53	0.00e+00
Ag09	109	47	2.49e-10		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	1.47e-11		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	2.27e-10
Cd10	110	48	3.15e-10		Xe29	129	54	1.52e-09

Xe30	130	54	4.57e-10
Xe31	131	54	1.25e-09
Xe32	132	54	1.84e-09
Xe33	133	54	0.00e+00
Xe34	134	54	7.87e-10
Xe35	135	54	0.00e+00
Xe36	136	54	5.93e-10
Cs33	133	55	4.32e-10
Cs34	134	55	0.00e+00
Cs35	135	55	6.16e-11
Cs36	136	55	0.00e+00
Cs37	137	55	1.92e-13
Ba34	134	56	2.15e-10
Ba35	135	56	3.40e-10
Ba36	136	56	6.82e-10
Ba37	137	56	1.21e-09
Ba38	138	56	6.61e-09
Ba39	139	56	0.00e+00
Ba40	140	56	0.00e+00
La39	139	57	8.50e-10
La40	140	57	0.00e+00
Ce40	140	58	1.97e-09
Ce41	141	58	0.00e+00
Ce42	142	58	3.22e-10
Ce43	143	58	0.00e+00
Ce44	144	58	0.00e+00
Pr41	141	59	2.93e-10
Pr42	142	59	0.00e+00
Pr43	143	59	0.00e+00
Pr45	145	59	0.00e+00
Nd42	142	60	4.14e-10
Nd43	143	60	1.61e-10
Nd44	144	60	4.06e-10
Nd45	145	60	1.12e-10
Nd46	146	60	3.27e-10
Nd47	147	60	0.00e+00
Nd48	148	60	9.40e-11
Nd49	149	60	0.00e+00
Nd50	150	60	5.65e-11
Pm45	145	61	0.00e+00
Pm46	146	61	0.00e+00

Pm47	147	61	0.00e+00
Pm48	148	61	0.00e+00
Pm49	149	61	0.00e+00
Pm50	150	61	0.00e+00
Pm51	151	61	0.00e+00
Sm44	144	62	8.92e-12
Sm45	145	62	0.00e+00
Sm46	146	62	0.00e+00
Sm47	147	62	6.44e-11
Sm48	148	62	6.92e-11
Sm49	149	62	4.99e-11
Sm50	150	62	5.88e-11
Sm51	151	62	0.00e+00
Sm52	152	62	1.13e-10
Sm53	153	62	0.00e+00
Sm54	154	62	8.84e-11
Eu51	151	63	5.81e-11
Eu52	152	63	0.00e+00
Eu53	153	63	6.53e-11
Eu54	154	63	0.00e+00
Eu55	155	63	0.00e+00
Eu56	156	63	0.00e+00
Eu57	157	63	0.00e+00
Gd52	152	64	2.13e-12
Gd53	153	64	0.00e+00
Gd54	154	64	1.86e-11
Gd55	155	64	6.83e-11
Gd56	156	64	1.10e-10
Gd57	157	64	7.63e-11
Gd58	158	64	1.54e-10
Gd59	159	64	0.00e+00
Gd60	160	64	1.06e-10
Tb59	159	65	8.46e-11
Tb60	160	65	0.00e+00
Tb61	161	65	0.00e+00
Dy60	160	66	2.85e-11
Dy61	161	66	1.01e-10
Dy62	162	66	1.65e-10
Dy63	163	66	1.34e-10
Dy64	164	66	2.00e-10
Dy65	165	66	0.00e+00

Dy66	166	66	0.00e+00
Ho63	163	67	8.55e-13
Ho64	164	67	0.00e+00
Ho65	165	67	1.30e-10
Ho66	166	67	0.00e+00
Er64	164	68	1.26e-11
Er65	165	68	0.00e+00
Er66	166	68	1.37e-10
Er67	167	68	8.89e-11
Er68	168	68	1.39e-10
Er69	169	68	0.00e+00
Er70	170	68	8.00e-11
Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	6.28e-11
Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00
Tm73	173	69	0.00e+00
Yb70	170	70	2.27e-11
Yb71	171	70	7.10e-11
Yb72	172	70	1.23e-10
Yb73	173	70	7.92e-11
Yb74	174	70	2.21e-10
Yb75	175	70	0.00e+00
Yb76	176	70	7.65e-11
Yb77	177	70	0.00e+00
Lu75	175	71	6.33e-11
Lu76	176	71	4.01e-12
Lu77	177	71	0.00e+00
Hf76	176	72	3.12e-11
Hf77	177	72	5.76e-11
Hf78	178	72	1.28e-10
Hf79	179	72	5.43e-11
Hf80	180	72	2.02e-10
Hf81	181	72	0.00e+00
Hf82	182	72	1.91e-11
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00

Ta81	181	73	5.58e-11
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	2.16e-13
W181	181	74	0.00e+00
W182	182	74	8.53e-11
W183	183	74	5.81e-11
W184	184	74	1.35e-10
W185	185	74	0.00e+00
W186	186	74	1.16e-10
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	4.59e-11
Re86	186	75	0.00e+00
Re87	187	75	5.80e-11
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	3.69e-11
Os87	187	76	2.44e-11
Os88	188	76	1.84e-10
Os89	189	76	1.74e-10
Os90	190	76	3.37e-10
Os91	191	76	0.00e+00
Os92	192	76	4.37e-10
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	3.70e-10
Ir92	192	77	0.00e+00
Ir93	193	77	6.27e-10
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	3.90e-11
Pt93	193	78	0.00e+00
Pt94	194	78	7.82e-10
Pt95	195	78	7.29e-10
Pt96	196	78	6.65e-10
Pt97	197	78	0.00e+00
Pt98	198	78	1.75e-10
Au97	197	79	3.37e-10
Au98	198	79	0.00e+00

Isotope	A	Z	YIELD
Au99	199	79	0.00e+00
Hg98	198	80	1.68e-10
Hg99	199	80	1.62e-10
Hg00	200	80	3.16e-10
Hg01	201	80	1.58e-10
Hg02	202	80	4.35e-10
Hg03	203	80	0.00e+00
Hg04	204	80	6.73e-11
Tl03	203	81	2.14e-10
Tl04	204	81	0.00e+00
Tl05	205	81	3.59e-10
Pb04	204	82	2.37e-10
Pb05	205	82	3.90e-11
Pb06	206	82	2.44e-09
Pb07	207	82	2.95e-09
Pb08	208	82	4.76e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	2.47e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_{\odot}$ = 5.00; Z = 0.001000; IRV = 30 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_{\odot}$]
H	1	1	2.74e+00
He4	4	2	1.30e+00
C12	12	6	6.89e-03
C13	13	6	6.24e-05
C14	14	6	4.53e-10
N14	14	7	8.47e-04
N15	15	7	1.59e-07
O16	16	8	1.75e-03
O17	17	8	1.56e-05
O18	18	8	2.15e-06
F18	18	9	0.00e+00
F19	19	9	1.66e-07

Isotope	A	Z	YIELD
Ne20	20	10	3.03e-04
Ne21	21	10	1.01e-06
Ne22	22	10	7.40e-05
Na22	22	11	0.00e+00
Na23	23	11	3.23e-05
Na24	24	11	0.00e+00
Mg24	24	12	1.56e-04
Mg25	25	12	2.67e-05
Mg26	26	12	4.35e-05
Al26	26	13	1.81e-08
Al27	27	13	1.93e-05
Si28	28	14	2.07e-04
Si29	29	14	1.12e-05
Si30	30	14	8.01e-06
Si31	31	14	0.00e+00
Si32	32	14	3.45e-12
P31	31	15	2.08e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	1.07e-04
S33	33	16	8.76e-07
S34	34	16	5.15e-06
S35	35	16	0.00e+00
S36	36	16	2.79e-08
Cl35	35	17	1.10e-06
Cl36	36	17	5.52e-10
Cl37	37	17	3.93e-07
Ar36	36	18	2.45e-05
Ar37	37	18	0.00e+00
Ar38	38	18	4.75e-06
Ar39	39	18	4.34e-11
Ar40	40	18	1.82e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	1.03e-06
K40	40	19	2.10e-09
K41	41	19	8.30e-08
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	1.84e-05
Ca41	41	20	1.18e-09

Ca42	42	20	1.33e-07		Ni64	64	28	3.99e-07
Ca43	43	20	2.86e-08		Ni65	65	28	0.00e+00
Ca44	44	20	4.40e-07		Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00		Cu63	63	29	2.74e-07
Ca46	46	20	3.37e-09		Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00		Cu65	65	29	1.17e-07
Ca48	48	20	4.27e-08		Cu66	66	29	0.00e+00
Sc45	45	21	1.35e-08		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	3.09e-07
Sc47	47	21	0.00e+00		Zn65	65	30	0.00e+00
Sc48	48	21	0.00e+00		Zn66	66	30	2.16e-07
Sc49	49	21	0.00e+00		Zn67	67	30	3.47e-08
Ti46	46	22	7.23e-08		Zn68	68	30	1.72e-07
Ti47	47	22	6.62e-08		Zn69	69	30	0.00e+00
Ti48	48	22	6.67e-07		Zn70	70	30	5.00e-09
Ti49	49	22	5.21e-08		Ga69	69	31	1.83e-08
Ti50	50	22	5.33e-08		Ga70	70	31	0.00e+00
V50	50	23	2.82e-10		Ga71	71	31	1.20e-08
V51	51	23	1.16e-07		Ga72	72	31	0.00e+00
Cr50	50	24	2.24e-07		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	2.35e-08
Cr52	52	24	4.52e-06		Ge71	71	32	0.00e+00
Cr53	53	24	5.21e-07		Ge72	72	32	2.90e-08
Cr54	54	24	1.46e-07		Ge73	73	32	8.34e-09
Mn55	55	25	3.98e-06		Ge74	74	32	3.81e-08
Mn56	56	25	0.00e+00		Ge75	75	32	0.00e+00
Fe54	54	26	2.16e-05		Ge76	76	32	5.84e-09
Fe55	55	26	0.00e+00		Ge77	77	32	0.00e+00
Fe56	56	26	3.52e-04		As75	75	33	4.73e-09
Fe57	57	26	8.46e-06		As76	76	33	0.00e+00
Fe58	58	26	1.62e-06		As77	77	33	0.00e+00
Fe59	59	26	0.00e+00		Se76	76	34	7.94e-09
Fe60	60	26	2.71e-07		Se77	77	34	4.74e-09
Co59	59	27	1.22e-06		Se78	78	34	1.58e-08
Co60	60	27	6.14e-13		Se79	79	34	1.93e-09
Ni58	58	28	1.48e-05		Se80	80	34	3.41e-08
Ni59	59	28	4.67e-09		Se81	81	34	0.00e+00
Ni60	60	28	6.01e-06		Se82	82	34	4.70e-09
Ni61	61	28	3.29e-07		Br79	79	35	3.95e-09
Ni62	62	28	9.55e-07		Br80	80	35	0.00e+00
Ni63	63	28	8.36e-11		Br81	81	35	5.32e-09

Br82	82	35	0.00e+00		Mo92	92	42	3.01e-10
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	1.99e-10
Kr80	80	36	1.03e-09		Mo95	95	42	6.04e-10
Kr81	81	36	5.31e-11		Mo96	96	42	7.11e-10
Kr82	82	36	9.55e-09		Mo97	97	42	3.98e-10
Kr83	83	36	6.07e-09		Mo98	98	42	1.08e-09
Kr84	84	36	3.35e-08		Mo99	99	42	0.00e+00
Kr85	85	36	1.13e-13		Mo00	100	42	2.71e-10
Kr86	86	36	2.50e-08		Tc97	97	43	3.05e-13
Kr87	87	36	0.00e+00		Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00		Tc99	99	43	6.96e-11
Rb85	85	37	7.63e-09		Ru96	96	44	7.54e-11
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	1.05e-08		Ru98	98	44	2.61e-11
Rb88	88	37	0.00e+00		Ru99	99	44	1.89e-10
Sr86	86	38	3.39e-09		Ru00	100	44	4.16e-10
Sr87	87	38	1.91e-09		Ru01	101	44	2.97e-10
Sr88	88	38	3.03e-08		Ru02	102	44	7.30e-10
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	3.41e-13		Ru04	104	44	3.25e-10
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	7.57e-09		Rh03	103	45	3.48e-10
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	2.88e-10
Y92	92	39	0.00e+00		Pd05	105	46	3.09e-10
Y93	93	39	0.00e+00		Pd06	106	46	5.31e-10
Zr90	90	40	7.24e-09		Pd07	107	46	3.94e-11
Zr91	91	40	1.95e-09		Pd08	108	46	5.56e-10
Zr92	92	40	3.18e-09		Pd09	109	46	0.00e+00
Zr93	93	40	5.86e-10		Pd10	110	46	1.86e-10
Zr94	94	40	3.53e-09		Ag07	107	47	2.10e-10
Zr95	95	40	0.00e+00		Ag09	109	47	2.57e-10
Zr96	96	40	2.67e-09		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	1.61e-11
Nb93	93	41	5.58e-10		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	3.42e-10
Nb95	95	41	0.00e+00		Cd11	111	48	2.39e-10
Nb96	96	41	0.00e+00		Cd12	112	48	5.72e-10
Nb97	97	41	0.00e+00		Cd13	113	48	2.38e-10

Cd14	114	48	7.31e-10	Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00	Xe34	134	54	8.82e-10
Cd16	116	48	2.22e-10	Xe35	135	54	0.00e+00
In13	113	49	6.75e-12	Xe36	136	54	6.28e-10
In15	115	49	2.23e-10	Cs33	133	55	4.48e-10
Sn14	114	50	2.19e-11	Cs34	134	55	0.00e+00
Sn15	115	50	1.14e-11	Cs35	135	55	8.35e-11
Sn16	116	50	8.43e-10	Cs36	136	55	0.00e+00
Sn17	117	50	3.87e-10	Cs37	137	55	1.50e-13
Sn18	118	50	1.41e-09	Ba34	134	56	2.49e-10
Sn19	119	50	4.63e-10	Ba35	135	56	3.48e-10
Sn20	120	50	2.01e-09	Ba36	136	56	7.82e-10
Sn21	121	50	0.00e+00	Ba37	137	56	1.46e-09
Sn22	122	50	5.84e-10	Ba38	138	56	7.62e-09
Sn23	123	50	0.00e+00	Ba39	139	56	0.00e+00
Sn24	124	50	3.57e-10	Ba40	140	56	0.00e+00
Sb21	121	51	2.48e-10	La39	139	57	9.68e-10
Sb22	122	51	0.00e+00	La40	140	57	0.00e+00
Sb23	123	51	1.82e-10	Ce40	140	58	2.12e-09
Sb24	124	51	0.00e+00	Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00	Ce42	142	58	4.17e-10
Te22	122	52	2.13e-10	Ce43	143	58	0.00e+00
Te23	123	52	7.29e-11	Ce44	144	58	0.00e+00
Te24	124	52	4.59e-10	Pr41	141	59	3.16e-10
Te25	125	52	4.15e-10	Pr42	142	59	0.00e+00
Te26	126	52	1.32e-09	Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00	Pr45	145	59	0.00e+00
Te28	128	52	1.60e-09	Nd42	142	60	4.21e-10
Te30	130	52	1.65e-09	Nd43	143	60	1.74e-10
I127	127	53	1.04e-09	Nd44	144	60	4.67e-10
I128	128	53	0.00e+00	Nd45	145	60	1.23e-10
I129	129	53	3.21e-12	Nd46	146	60	3.79e-10
I130	130	53	0.00e+00	Nd47	147	60	0.00e+00
I131	131	53	0.00e+00	Nd48	148	60	1.09e-10
I132	132	53	0.00e+00	Nd49	149	60	0.00e+00
I133	133	53	0.00e+00	Nd50	150	60	5.72e-11
Xe28	128	54	2.63e-10	Pm45	145	61	0.00e+00
Xe29	129	54	1.52e-09	Pm46	146	61	0.00e+00
Xe30	130	54	5.32e-10	Pm47	147	61	0.00e+00
Xe31	131	54	1.26e-09	Pm48	148	61	0.00e+00
Xe32	132	54	1.97e-09	Pm49	149	61	0.00e+00

Pm50	150	61	0.00e+00		Ho65	165	67	1.35e-10
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	8.90e-12		Er64	164	68	1.52e-11
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	1.45e-10
Sm47	147	62	7.08e-11		Er67	167	68	9.27e-11
Sm48	148	62	7.92e-11		Er68	168	68	1.56e-10
Sm49	149	62	5.27e-11		Er69	169	68	0.00e+00
Sm50	150	62	7.04e-11		Er70	170	68	9.14e-11
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	1.23e-10		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	6.74e-11
Sm54	154	62	9.56e-11		Tm70	170	69	0.00e+00
Eu51	151	63	5.94e-11		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00
Eu53	153	63	6.70e-11		Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00		Yb70	170	70	2.70e-11
Eu55	155	63	0.00e+00		Yb71	171	70	7.89e-11
Eu56	156	63	0.00e+00		Yb72	172	70	1.39e-10
Eu57	157	63	0.00e+00		Yb73	173	70	8.72e-11
Gd52	152	64	2.54e-12		Yb74	174	70	2.58e-10
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00
Gd54	154	64	2.17e-11		Yb76	176	70	9.00e-11
Gd55	155	64	7.11e-11		Yb77	177	70	0.00e+00
Gd56	156	64	1.20e-10		Lu75	175	71	6.84e-11
Gd57	157	64	8.05e-11		Lu76	176	71	4.88e-12
Gd58	158	64	1.72e-10		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	3.71e-11
Gd60	160	64	1.12e-10		Hf77	177	72	6.21e-11
Tb59	159	65	8.83e-11		Hf78	178	72	1.49e-10
Tb60	160	65	0.00e+00		Hf79	179	72	6.14e-11
Tb61	161	65	0.00e+00		Hf80	180	72	2.39e-10
Dy60	160	66	3.40e-11		Hf81	181	72	0.00e+00
Dy61	161	66	1.04e-10		Hf82	182	72	2.74e-11
Dy62	162	66	1.79e-10		Hf83	183	72	0.00e+00
Dy63	163	66	1.37e-10		Hf84	184	72	0.00e+00
Dy64	164	66	2.20e-10		Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00		Ta80	180	73	0.00e+00
Dy66	166	66	0.00e+00		Ta81	181	73	6.41e-11
Ho63	163	67	1.22e-12		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta83	183	73	0.00e+00

Isotope	A	Z	
Ta84	184	73	0.00e+00
W180	180	74	2.15e-13
W181	181	74	0.00e+00
W182	182	74	9.55e-11
W183	183	74	6.78e-11
W184	184	74	1.58e-10
W185	185	74	0.00e+00
W186	186	74	1.35e-10
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	5.10e-11
Re86	186	75	0.00e+00
Re87	187	75	6.19e-11
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	4.26e-11
Os87	187	76	2.57e-11
Os88	188	76	1.99e-10
Os89	189	76	1.77e-10
Os90	190	76	3.58e-10
Os91	191	76	0.00e+00
Os92	192	76	4.43e-10
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	3.71e-10
Ir92	192	77	0.00e+00
Ir93	193	77	6.30e-10
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	4.57e-11
Pt93	193	78	0.00e+00
Pt94	194	78	8.18e-10
Pt95	195	78	7.38e-10
Pt96	196	78	7.11e-10
Pt97	197	78	0.00e+00
Pt98	198	78	1.87e-10
Au97	197	79	3.48e-10
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.98e-10
Hg99	199	80	1.78e-10

Isotope	A	Z	
Hg00	200	80	3.63e-10
Hg01	201	80	1.78e-10
Hg02	202	80	4.88e-10
Hg03	203	80	0.00e+00
Hg04	204	80	7.74e-11
Tl03	203	81	2.41e-10
Tl04	204	81	0.00e+00
Tl05	205	81	3.83e-10
Pb04	204	82	2.56e-10
Pb05	205	82	4.91e-11
Pb06	206	82	2.17e-09
Pb07	207	82	2.66e-09
Pb08	208	82	1.61e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	9.98e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M$_\odot$ = 5.00; Z = 0.001000; IRV = 60 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [M$_\odot$]
H	1	1	2.73e+00
He4	4	2	1.30e+00
C12	12	6	6.67e-03
C13	13	6	4.26e-05
C14	14	6	4.75e-10
N14	14	7	1.15e-03
N15	15	7	5.67e-08
O16	16	8	1.78e-03
O17	17	8	1.58e-05
O18	18	8	8.10e-07
F18	18	9	0.00e+00
F19	19	9	1.72e-07
Ne20	20	10	3.02e-04
Ne21	21	10	1.02e-06
Ne22	22	10	7.95e-05

Na22	22	11	0.00e+00		Ca45	45	20	0.00e+00
Na23	23	11	3.24e-05		Ca46	46	20	3.28e-09
Na24	24	11	0.00e+00		Ca47	47	20	0.00e+00
Mg24	24	12	1.56e-04		Ca48	48	20	4.25e-08
Mg25	25	12	2.66e-05		Sc45	45	21	1.35e-08
Mg26	26	12	4.30e-05		Sc46	46	21	0.00e+00
Al26	26	13	1.60e-08		Sc47	47	21	0.00e+00
Al27	27	13	1.91e-05		Sc48	48	21	0.00e+00
Si28	28	14	2.06e-04		Sc49	49	21	0.00e+00
Si29	29	14	1.11e-05		Ti46	46	22	7.20e-08
Si30	30	14	7.98e-06		Ti47	47	22	6.55e-08
Si31	31	14	0.00e+00		Ti48	48	22	6.63e-07
Si32	32	14	3.13e-12		Ti49	49	22	5.31e-08
P31	31	15	2.06e-06		Ti50	50	22	5.32e-08
P32	32	15	0.00e+00		V50	50	23	2.79e-10
P33	33	15	0.00e+00		V51	51	23	1.16e-07
S32	32	16	1.07e-04		Cr50	50	24	2.22e-07
S33	33	16	8.72e-07		Cr51	51	24	0.00e+00
S34	34	16	5.12e-06		Cr52	52	24	4.50e-06
S35	35	16	0.00e+00		Cr53	53	24	5.15e-07
S36	36	16	2.80e-08		Cr54	54	24	1.50e-07
Cl35	35	17	1.09e-06		Mn55	55	25	4.00e-06
Cl36	36	17	1.02e-09		Mn56	56	25	0.00e+00
Cl37	37	17	4.13e-07		Fe54	54	26	2.14e-05
Ar36	36	18	2.44e-05		Fe55	55	26	0.00e+00
Ar37	37	18	0.00e+00		Fe56	56	26	3.50e-04
Ar38	38	18	4.73e-06		Fe57	57	26	8.54e-06
Ar39	39	18	4.24e-11		Fe58	58	26	1.67e-06
Ar40	40	18	1.79e-08		Fe59	59	26	0.00e+00
Ar41	41	18	0.00e+00		Fe60	60	26	2.61e-07
Ar42	42	18	0.00e+00		Co59	59	27	1.23e-06
K39	39	19	1.02e-06		Co60	60	27	5.88e-13
K40	40	19	2.91e-09		Ni58	58	28	1.47e-05
K41	41	19	8.77e-08		Ni59	59	28	9.91e-09
K42	42	19	0.00e+00		Ni60	60	28	5.98e-06
K43	43	19	0.00e+00		Ni61	61	28	3.37e-07
Ca40	40	20	1.83e-05		Ni62	62	28	9.53e-07
Ca41	41	20	1.93e-09		Ni63	63	28	8.01e-11
Ca42	42	20	1.33e-07		Ni64	64	28	3.98e-07
Ca43	43	20	2.85e-08		Ni65	65	28	0.00e+00
Ca44	44	20	4.38e-07		Ni66	66	28	0.00e+00

Cu63	63	29	2.74e-07		Kr80	80	36	1.09e-09
Cu64	64	29	0.00e+00		Kr81	81	36	5.77e-11
Cu65	65	29	1.18e-07		Kr82	82	36	9.55e-09
Cu66	66	29	0.00e+00		Kr83	83	36	5.99e-09
Cu67	67	29	0.00e+00		Kr84	84	36	3.33e-08
Zn64	64	30	3.07e-07		Kr85	85	36	1.04e-13
Zn65	65	30	0.00e+00		Kr86	86	36	2.41e-08
Zn66	66	30	2.15e-07		Kr87	87	36	0.00e+00
Zn67	67	30	3.47e-08		Kr88	88	36	0.00e+00
Zn68	68	30	1.71e-07		Rb85	85	37	7.56e-09
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	4.93e-09		Rb87	87	37	1.01e-08
Ga69	69	31	1.84e-08		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	3.42e-09
Ga71	71	31	1.20e-08		Sr87	87	38	1.90e-09
Ga72	72	31	0.00e+00		Sr88	88	38	2.95e-08
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	2.35e-08		Sr90	90	38	3.20e-13
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	2.89e-08		Sr92	92	38	0.00e+00
Ge73	73	32	8.28e-09		Y89	89	39	7.31e-09
Ge74	74	32	3.79e-08		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	5.78e-09		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	4.67e-09		Zr90	90	40	6.97e-09
As76	76	33	0.00e+00		Zr91	91	40	1.86e-09
As77	77	33	0.00e+00		Zr92	92	40	3.03e-09
Se76	76	34	7.98e-09		Zr93	93	40	5.38e-10
Se77	77	34	4.71e-09		Zr94	94	40	3.32e-09
Se78	78	34	1.57e-08		Zr95	95	40	0.00e+00
Se79	79	34	1.91e-09		Zr96	96	40	2.51e-09
Se80	80	34	3.37e-08		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	5.49e-10
Se82	82	34	4.58e-09		Nb94	94	41	0.00e+00
Br79	79	35	3.89e-09		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	5.30e-09		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	2.97e-10
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	2.06e-10

Mo95	95	42	5.76e-10		In13	113	49	6.54e-12
Mo96	96	42	6.76e-10		In15	115	49	2.11e-10
Mo97	97	42	3.79e-10		Sn14	114	50	2.17e-11
Mo98	98	42	1.03e-09		Sn15	115	50	1.13e-11
Mo99	99	42	0.00e+00		Sn16	116	50	7.83e-10
Mo00	100	42	2.64e-10		Sn17	117	50	3.65e-10
Tc97	97	43	5.08e-13		Sn18	118	50	1.31e-09
Tc98	98	43	0.00e+00		Sn19	119	50	4.33e-10
Tc99	99	43	6.32e-11		Sn20	120	50	1.85e-09
Ru96	96	44	7.40e-11		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	5.51e-10
Ru98	98	44	2.60e-11		Sn23	123	50	0.00e+00
Ru99	99	44	1.85e-10		Sn24	124	50	3.46e-10
Ru00	100	44	3.92e-10		Sb21	121	51	2.33e-10
Ru01	101	44	2.85e-10		Sb22	122	51	0.00e+00
Ru02	102	44	6.98e-10		Sb23	123	51	1.74e-10
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	3.16e-10		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	1.97e-10
Ru06	106	44	0.00e+00		Te23	123	52	6.74e-11
Rh03	103	45	3.36e-10		Te24	124	52	4.23e-10
Rh05	105	45	0.00e+00		Te25	125	52	3.96e-10
Pd04	104	46	2.75e-10		Te26	126	52	1.25e-09
Pd05	105	46	2.99e-10		Te27	127	52	0.00e+00
Pd06	106	46	5.09e-10		Te28	128	52	1.58e-09
Pd07	107	46	3.69e-11		Te30	130	52	1.64e-09
Pd08	108	46	5.25e-10		I127	127	53	1.00e-09
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	1.79e-10		I129	129	53	2.95e-12
Ag07	107	47	2.05e-10		I130	130	53	0.00e+00
Ag09	109	47	2.47e-10		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	2.00e-11		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	2.56e-10
Cd10	110	48	3.21e-10		Xe29	129	54	1.48e-09
Cd11	111	48	2.28e-10		Xe30	130	54	5.19e-10
Cd12	112	48	5.39e-10		Xe31	131	54	1.23e-09
Cd13	113	48	2.27e-10		Xe32	132	54	1.89e-09
Cd14	114	48	6.83e-10		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	8.57e-10
Cd16	116	48	2.09e-10		Xe35	135	54	0.00e+00

Xe36	136	54	6.14e-10		Sm45	145	62	0.00e+00
Cs33	133	55	4.31e-10		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	6.97e-11
Cs35	135	55	7.45e-11		Sm48	148	62	7.95e-11
Cs36	136	55	0.00e+00		Sm49	149	62	5.17e-11
Cs37	137	55	1.45e-13		Sm50	150	62	7.11e-11
Ba34	134	56	2.33e-10		Sm51	151	62	0.00e+00
Ba35	135	56	3.35e-10		Sm52	152	62	1.22e-10
Ba36	136	56	7.07e-10		Sm53	153	62	0.00e+00
Ba37	137	56	1.37e-09		Sm54	154	62	9.49e-11
Ba38	138	56	7.10e-09		Eu51	151	63	5.79e-11
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	6.56e-11
La39	139	57	9.14e-10		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	2.02e-09		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	4.31e-10		Gd52	152	64	3.09e-12
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	2.29e-11
Pr41	141	59	3.04e-10		Gd55	155	64	6.99e-11
Pr42	142	59	0.00e+00		Gd56	156	64	1.20e-10
Pr43	143	59	0.00e+00		Gd57	157	64	7.98e-11
Pr45	145	59	0.00e+00		Gd58	158	64	1.74e-10
Nd42	142	60	3.96e-10		Gd59	159	64	0.00e+00
Nd43	143	60	1.70e-10		Gd60	160	64	1.11e-10
Nd44	144	60	4.65e-10		Tb59	159	65	8.71e-11
Nd45	145	60	1.22e-10		Tb60	160	65	0.00e+00
Nd46	146	60	3.79e-10		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	3.56e-11
Nd48	148	60	1.09e-10		Dy61	161	66	1.02e-10
Nd49	149	60	0.00e+00		Dy62	162	66	1.80e-10
Nd50	150	60	5.64e-11		Dy63	163	66	1.34e-10
Pm45	145	61	0.00e+00		Dy64	164	66	2.23e-10
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	1.29e-12
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	1.33e-10
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	8.80e-12		Er64	164	68	1.59e-11

Er65	165	68	0.00e+00		W182	182	74	9.69e-11
Er66	166	68	1.46e-10		W183	183	74	6.88e-11
Er67	167	68	9.17e-11		W184	184	74	1.61e-10
Er68	168	68	1.59e-10		W185	185	74	0.00e+00
Er69	169	68	0.00e+00		W186	186	74	1.37e-10
Er70	170	68	9.17e-11		W187	187	74	0.00e+00
Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	5.09e-11
Tm69	169	69	6.72e-11		Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00		Re87	187	75	6.13e-11
Tm71	171	69	0.00e+00		Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00		Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00		Os86	186	76	4.37e-11
Yb70	170	70	2.89e-11		Os87	187	76	2.55e-11
Yb71	171	70	7.90e-11		Os88	188	76	1.99e-10
Yb72	172	70	1.41e-10		Os89	189	76	1.73e-10
Yb73	173	70	8.73e-11		Os90	190	76	3.60e-10
Yb74	174	70	2.61e-10		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	4.36e-10
Yb76	176	70	9.15e-11		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	6.78e-11		Ir91	191	77	3.62e-10
Lu76	176	71	4.99e-12		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	6.16e-10
Hf76	176	72	3.81e-11		Ir94	194	77	0.00e+00
Hf77	177	72	6.17e-11		Ir95	195	77	0.00e+00
Hf78	178	72	1.51e-10		Pt92	192	78	5.28e-11
Hf79	179	72	6.19e-11		Pt93	193	78	0.00e+00
Hf80	180	72	2.43e-10		Pt94	194	78	8.27e-10
Hf81	181	72	0.00e+00		Pt95	195	78	7.27e-10
Hf82	182	72	2.88e-11		Pt96	196	78	7.32e-10
Hf83	183	72	0.00e+00		Pt97	197	78	0.00e+00
Hf84	184	72	0.00e+00		Pt98	198	78	1.87e-10
Ta79	179	73	0.00e+00		Au97	197	79	3.47e-10
Ta80	180	73	0.00e+00		Au98	198	79	0.00e+00
Ta81	181	73	6.46e-11		Au99	199	79	0.00e+00
Ta82	182	73	0.00e+00		Hg98	198	80	2.12e-10
Ta83	183	73	0.00e+00		Hg99	199	80	1.81e-10
Ta84	184	73	0.00e+00		Hg00	200	80	3.73e-10
W180	180	74	2.09e-13		Hg01	201	80	1.80e-10
W181	181	74	0.00e+00		Hg02	202	80	4.97e-10

Isotope	A	Z	YIELD
Hg03	203	80	0.00e+00
Hg04	204	80	7.98e-11
Tl03	203	81	2.46e-10
Tl04	204	81	0.00e+00
Tl05	205	81	3.89e-10
Pb04	204	82	2.59e-10
Pb05	205	82	4.98e-11
Pb06	206	82	2.20e-09
Pb07	207	82	2.74e-09
Pb08	208	82	1.50e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	9.20e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 5.00; Z = 0.002000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	2.72e+00
He4	4	2	1.32e+00
C12	12	6	6.70e-03
C13	13	6	5.88e-05
C14	14	6	6.38e-08
N14	14	7	1.57e-03
N15	15	7	6.35e-07
O16	16	8	3.27e-03
O17	17	8	2.23e-05
O18	18	8	4.39e-06
F18	18	9	0.00e+00
F19	19	9	2.21e-07
Ne20	20	10	6.13e-04
Ne21	21	10	1.99e-06
Ne22	22	10	1.23e-04
Na22	22	11	0.00e+00
Na23	23	11	5.09e-05
Na24	24	11	0.00e+00

Isotope	A	Z	YIELD
Mg24	24	12	3.12e-04
Mg25	25	12	4.77e-05
Mg26	26	12	6.28e-05
Al26	26	13	3.53e-08
Al27	27	13	3.69e-05
Si28	28	14	4.13e-04
Si29	29	14	2.22e-05
Si30	30	14	1.56e-05
Si31	31	14	0.00e+00
Si32	32	14	5.24e-12
P31	31	15	4.06e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	2.14e-04
S33	33	16	1.76e-06
S34	34	16	1.03e-05
S35	35	16	0.00e+00
S36	36	16	5.41e-08
Cl35	35	17	2.19e-06
Cl36	36	17	8.02e-10
Cl37	37	17	7.71e-07
Ar36	36	18	4.90e-05
Ar37	37	18	0.00e+00
Ar38	38	18	9.49e-06
Ar39	39	18	8.94e-11
Ar40	40	18	3.03e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	2.05e-06
K40	40	19	3.74e-09
K41	41	19	1.61e-07
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	3.68e-05
Ca41	41	20	2.30e-09
Ca42	42	20	2.65e-07
Ca43	43	20	5.69e-08
Ca44	44	20	8.78e-07
Ca45	45	20	0.00e+00
Ca46	46	20	5.08e-09
Ca47	47	20	0.00e+00

Ca48	48	20	8.54e-08		Cu66	66	29	0.00e+00
Sc45	45	21	2.64e-08		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	6.17e-07
Sc47	47	21	0.00e+00		Zn65	65	30	0.00e+00
Sc48	48	21	0.00e+00		Zn66	66	30	4.05e-07
Sc49	49	21	0.00e+00		Zn67	67	30	6.35e-08
Ti46	46	22	1.44e-07		Zn68	68	30	3.06e-07
Ti47	47	22	1.32e-07		Zn69	69	30	0.00e+00
Ti48	48	22	1.33e-06		Zn70	70	30	9.37e-09
Ti49	49	22	1.03e-07		Ga69	69	31	3.12e-08
Ti50	50	22	1.05e-07		Ga70	70	31	0.00e+00
V50	50	23	5.65e-10		Ga71	71	31	2.07e-08
V51	51	23	2.32e-07		Ga72	72	31	0.00e+00
Cr50	50	24	4.49e-07		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	3.90e-08
Cr52	52	24	9.04e-06		Ge71	71	32	0.00e+00
Cr53	53	24	1.04e-06		Ge72	72	32	4.93e-08
Cr54	54	24	2.88e-07		Ge73	73	32	1.41e-08
Mn55	55	25	7.93e-06		Ge74	74	32	6.97e-08
Mn56	56	25	0.00e+00		Ge75	75	32	0.00e+00
Fe54	54	26	4.32e-05		Ge76	76	32	1.17e-08
Fe55	55	26	1.77e-13		Ge77	77	32	0.00e+00
Fe56	56	26	7.04e-04		As75	75	33	9.07e-09
Fe57	57	26	1.69e-05		As76	76	33	0.00e+00
Fe58	58	26	3.18e-06		As77	77	33	0.00e+00
Fe59	59	26	0.00e+00		Se76	76	34	1.18e-08
Fe60	60	26	4.35e-07		Se77	77	34	7.90e-09
Co59	59	27	2.43e-06		Se78	78	34	3.02e-08
Co60	60	27	1.01e-12		Se79	79	34	1.90e-09
Ni58	58	28	2.97e-05		Se80	80	34	5.44e-08
Ni59	59	28	7.43e-09		Se81	81	34	0.00e+00
Ni60	60	28	1.20e-05		Se82	82	34	7.99e-09
Ni61	61	28	6.38e-07		Br79	79	35	7.46e-09
Ni62	62	28	1.95e-06		Br80	80	35	0.00e+00
Ni63	63	28	1.95e-10		Br81	81	35	9.28e-09
Ni64	64	28	7.02e-07		Br82	82	35	0.00e+00
Ni65	65	28	0.00e+00		Br83	83	35	0.00e+00
Ni66	66	28	0.00e+00		Br84	84	35	0.00e+00
Cu63	63	29	5.06e-07		Kr80	80	36	1.84e-09
Cu64	64	29	0.00e+00		Kr81	81	36	5.57e-11
Cu65	65	29	2.23e-07		Kr82	82	36	1.32e-08

Kr83	83	36	1.01e-08		Mo98	98	42	1.69e-09
Kr84	84	36	5.28e-08		Mo99	99	42	0.00e+00
Kr85	85	36	1.42e-13		Mo00	100	42	4.95e-10
Kr86	86	36	2.90e-08		Tc97	97	43	4.29e-13
Kr87	87	36	0.00e+00		Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00		Tc99	99	43	7.97e-11
Rb85	85	37	1.03e-08		Ru96	96	44	1.51e-10
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	1.03e-08		Ru98	98	44	5.23e-11
Rb88	88	37	0.00e+00		Ru99	99	44	3.71e-10
Sr86	86	38	4.78e-09		Ru00	100	44	6.45e-10
Sr87	87	38	3.05e-09		Ru01	101	44	5.54e-10
Sr88	88	38	4.33e-08		Ru02	102	44	1.33e-09
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	6.59e-13		Ru04	104	44	6.13e-10
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	1.08e-08		Rh03	103	45	6.58e-10
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	4.63e-10
Y92	92	39	0.00e+00		Pd05	105	46	5.89e-10
Y93	93	39	0.00e+00		Pd06	106	46	9.22e-10
Zr90	90	40	1.17e-08		Pd07	107	46	5.16e-11
Zr91	91	40	2.89e-09		Pd08	108	46	9.59e-10
Zr92	92	40	4.51e-09		Pd09	109	46	0.00e+00
Zr93	93	40	6.40e-10		Pd10	110	46	3.40e-10
Zr94	94	40	4.99e-09		Ag07	107	47	4.22e-10
Zr95	95	40	0.00e+00		Ag09	109	47	4.92e-10
Zr96	96	40	1.65e-09		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	2.88e-11
Nb93	93	41	1.11e-09		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	5.75e-10
Nb95	95	41	0.00e+00		Cd11	111	48	4.38e-10
Nb96	96	41	0.00e+00		Cd12	112	48	9.97e-10
Nb97	97	41	0.00e+00		Cd13	113	48	4.35e-10
Mo92	92	42	6.03e-10		Cd14	114	48	1.27e-09
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	3.92e-10		Cd16	116	48	3.63e-10
Mo95	95	42	9.65e-10		In13	113	49	1.38e-11
Mo96	96	42	1.12e-09		In15	115	49	4.06e-10
Mo97	97	42	6.11e-10		Sn14	114	50	4.40e-11

Sn15	115	50	2.28e-11		Cs35	135	55	1.13e-10
Sn16	116	50	1.50e-09		Cs36	136	55	0.00e+00
Sn17	117	50	7.04e-10		Cs37	137	55	3.28e-13
Sn18	118	50	2.51e-09		Ba34	134	56	4.40e-10
Sn19	119	50	8.47e-10		Ba35	135	56	6.85e-10
Sn20	120	50	3.60e-09		Ba36	136	56	1.41e-09
Sn21	121	50	0.00e+00		Ba37	137	56	2.30e-09
Sn22	122	50	8.46e-10		Ba38	138	56	1.55e-08
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00
Sn24	124	50	5.70e-10		Ba40	140	56	0.00e+00
Sb21	121	51	4.63e-10		La39	139	57	2.00e-09
Sb22	122	51	0.00e+00		La40	140	57	0.00e+00
Sb23	123	51	3.31e-10		Ce40	140	58	4.88e-09
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	7.71e-10
Te22	122	52	3.84e-10		Ce43	143	58	0.00e+00
Te23	123	52	1.32e-10		Ce44	144	58	0.00e+00
Te24	124	52	7.95e-10		Pr41	141	59	6.92e-10
Te25	125	52	7.86e-10		Pr42	142	59	0.00e+00
Te26	126	52	2.42e-09		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	3.15e-09		Nd42	142	60	1.04e-09
Te30	130	52	3.31e-09		Nd43	143	60	3.70e-10
I127	127	53	2.06e-09		Nd44	144	60	9.79e-10
I128	128	53	0.00e+00		Nd45	145	60	2.56e-10
I129	129	53	3.93e-12		Nd46	146	60	8.01e-10
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	2.16e-10
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	1.14e-10
Xe28	128	54	4.49e-10		Pm45	145	61	0.00e+00
Xe29	129	54	3.04e-09		Pm46	146	61	0.00e+00
Xe30	130	54	9.05e-10		Pm47	147	61	0.00e+00
Xe31	131	54	2.50e-09		Pm48	148	61	0.00e+00
Xe32	132	54	3.69e-09		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	1.51e-09		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	1.78e-11
Xe36	136	54	1.07e-09		Sm45	145	62	0.00e+00
Cs33	133	55	8.63e-10		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	1.47e-10

Sm48	148	62	1.73e-10	Er68	168	68	3.16e-10
Sm49	149	62	1.08e-10	Er69	169	68	0.00e+00
Sm50	150	62	1.49e-10	Er70	170	68	1.78e-10
Sm51	151	62	0.00e+00	Er71	171	68	0.00e+00
Sm52	152	62	2.55e-10	Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00	Tm69	169	69	1.27e-10
Sm54	154	62	1.89e-10	Tm70	170	69	0.00e+00
Eu51	151	63	1.21e-10	Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00	Tm72	172	69	0.00e+00
Eu53	153	63	1.37e-10	Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00	Yb70	170	70	5.62e-11
Eu55	155	63	0.00e+00	Yb71	171	70	1.60e-10
Eu56	156	63	0.00e+00	Yb72	172	70	2.86e-10
Eu57	157	63	0.00e+00	Yb73	173	70	1.78e-10
Gd52	152	64	4.46e-12	Yb74	174	70	5.30e-10
Gd53	153	64	0.00e+00	Yb75	175	70	0.00e+00
Gd54	154	64	4.24e-11	Yb76	176	70	1.71e-10
Gd55	155	64	1.45e-10	Yb77	177	70	0.00e+00
Gd56	156	64	2.43e-10	Lu75	175	71	1.39e-10
Gd57	157	64	1.64e-10	Lu76	176	71	1.01e-11
Gd58	158	64	3.44e-10	Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00	Hf76	176	72	7.96e-11
Gd60	160	64	2.21e-10	Hf77	177	72	1.26e-10
Tb59	159	65	1.79e-10	Hf78	178	72	2.98e-10
Tb60	160	65	0.00e+00	Hf79	179	72	1.25e-10
Tb61	161	65	0.00e+00	Hf80	180	72	4.88e-10
Dy60	160	66	7.02e-11	Hf81	181	72	0.00e+00
Dy61	161	66	2.10e-10	Hf82	182	72	3.10e-11
Dy62	162	66	3.61e-10	Hf83	183	72	0.00e+00
Dy63	163	66	2.77e-10	Hf84	184	72	0.00e+00
Dy64	164	66	4.43e-10	Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00	Ta80	180	73	0.00e+00
Dy66	166	66	0.00e+00	Ta81	181	73	1.30e-10
Ho63	163	67	2.23e-12	Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00	Ta83	183	73	0.00e+00
Ho65	165	67	2.73e-10	Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00	W180	180	74	4.31e-13
Er64	164	68	3.11e-11	W181	181	74	0.00e+00
Er65	165	68	0.00e+00	W182	182	74	2.08e-10
Er66	166	68	2.94e-10	W183	183	74	1.40e-10
Er67	167	68	1.88e-10	W184	184	74	3.28e-10

W185	185	74	0.00e+00
W186	186	74	2.26e-10
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	1.04e-10
Re86	186	75	0.00e+00
Re87	187	75	1.23e-10
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	9.31e-11
Os87	187	76	5.35e-11
Os88	188	76	4.46e-10
Os89	189	76	3.60e-10
Os90	190	76	7.37e-10
Os91	191	76	0.00e+00
Os92	192	76	9.71e-10
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	7.49e-10
Ir92	192	77	0.00e+00
Ir93	193	77	1.27e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	9.10e-11
Pt93	193	78	0.00e+00
Pt94	194	78	1.63e-09
Pt95	195	78	1.49e-09
Pt96	196	78	1.39e-09
Pt97	197	78	0.00e+00
Pt98	198	78	3.53e-10
Au97	197	79	6.99e-10
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	4.10e-10
Hg99	199	80	3.61e-10
Hg00	200	80	7.52e-10
Hg01	201	80	3.68e-10
Hg02	202	80	1.14e-09
Hg03	203	80	0.00e+00
Hg04	204	80	1.45e-10
Tl03	203	81	5.26e-10

Tl04	204	81	0.00e+00
Tl05	205	81	8.51e-10
Pb04	204	82	6.02e-10
Pb05	205	82	9.98e-11
Pb06	206	82	6.68e-09
Pb07	207	82	7.76e-09
Pb08	208	82	1.09e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	2.95e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 5.00; Z = 0.003000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	2.71e+00
He4	4	2	1.34e+00
C12	12	6	5.17e-03
C13	13	6	6.22e-05
C14	14	6	9.82e-08
N14	14	7	2.30e-03
N15	15	7	9.92e-07
O16	16	8	4.83e-03
O17	17	8	2.59e-05
O18	18	8	6.86e-06
F18	18	9	0.00e+00
F19	19	9	3.34e-07
Ne20	20	10	9.31e-04
Ne21	21	10	3.04e-06
Ne22	22	10	1.36e-04
Na22	22	11	0.00e+00
Na23	23	11	6.53e-05
Na24	24	11	0.00e+00
Mg24	24	12	4.71e-04
Mg25	25	12	6.28e-05
Mg26	26	12	8.32e-05

Al26	26	13	6.17e-08		Sc47	47	21	0.00e+00
Al27	27	13	5.50e-05		Sc48	48	21	0.00e+00
Si28	28	14	6.20e-04		Sc49	49	21	0.00e+00
Si29	29	14	3.29e-05		Ti46	46	22	2.17e-07
Si30	30	14	2.27e-05		Ti47	47	22	1.99e-07
Si31	31	14	0.00e+00		Ti48	48	22	2.01e-06
Si32	32	14	1.12e-12		Ti49	49	22	1.55e-07
P31	31	15	5.89e-06		Ti50	50	22	1.55e-07
P32	32	15	0.00e+00		V50	50	23	8.52e-10
P33	33	15	0.00e+00		V51	51	23	3.49e-07
S32	32	16	3.23e-04		Cr50	50	24	6.78e-07
S33	33	16	2.64e-06		Cr51	51	24	0.00e+00
S34	34	16	1.54e-05		Cr52	52	24	1.36e-05
S35	35	16	0.00e+00		Cr53	53	24	1.57e-06
S36	36	16	7.36e-08		Cr54	54	24	4.23e-07
Cl35	35	17	3.31e-06		Mn55	55	25	1.20e-05
Cl36	36	17	1.01e-09		Mn56	56	25	0.00e+00
Cl37	37	17	1.15e-06		Fe54	54	26	6.51e-05
Ar36	36	18	7.40e-05		Fe55	55	26	4.75e-13
Ar37	37	18	0.00e+00		Fe56	56	26	1.06e-03
Ar38	38	18	1.43e-05		Fe57	57	26	2.55e-05
Ar39	39	18	6.90e-11		Fe58	58	26	4.39e-06
Ar40	40	18	3.27e-08		Fe59	59	26	0.00e+00
Ar41	41	18	0.00e+00		Fe60	60	26	2.26e-07
Ar42	42	18	0.00e+00		Co59	59	27	3.46e-06
K39	39	19	3.08e-06		Co60	60	27	5.50e-13
K40	40	19	5.46e-09		Ni58	58	28	4.48e-05
K41	41	19	2.40e-07		Ni59	59	28	1.24e-08
K42	42	19	0.00e+00		Ni60	60	28	1.80e-05
K43	43	19	0.00e+00		Ni61	61	28	8.85e-07
Ca40	40	20	5.55e-05		Ni62	62	28	2.75e-06
Ca41	41	20	3.29e-09		Ni63	63	28	1.30e-10
Ca42	42	20	3.95e-07		Ni64	64	28	8.27e-07
Ca43	43	20	8.48e-08		Ni65	65	28	0.00e+00
Ca44	44	20	1.32e-06		Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00		Cu63	63	29	6.49e-07
Ca46	46	20	4.32e-09		Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00		Cu65	65	29	2.85e-07
Ca48	48	20	1.29e-07		Cu66	66	29	0.00e+00
Sc45	45	21	3.80e-08		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	9.31e-07

Zn65	65	30	0.00e+00		Kr86	86	36	3.00e-08
Zn66	66	30	5.75e-07		Kr87	87	36	0.00e+00
Zn67	67	30	8.77e-08		Kr88	88	36	0.00e+00
Zn68	68	30	4.13e-07		Rb85	85	37	1.18e-08
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	1.32e-08		Rb87	87	37	8.36e-09
Ga69	69	31	4.03e-08		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	5.87e-09
Ga71	71	31	2.70e-08		Sr87	87	38	4.15e-09
Ga72	72	31	0.00e+00		Sr88	88	38	5.79e-08
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	4.88e-08		Sr90	90	38	2.34e-13
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	6.34e-08		Sr92	92	38	0.00e+00
Ge73	73	32	1.80e-08		Y89	89	39	1.46e-08
Ge74	74	32	8.67e-08		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	1.65e-08		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	1.18e-08		Zr90	90	40	1.68e-08
As76	76	33	0.00e+00		Zr91	91	40	4.09e-09
As77	77	33	0.00e+00		Zr92	92	40	6.47e-09
Se76	76	34	1.37e-08		Zr93	93	40	8.39e-10
Se77	77	34	1.02e-08		Zr94	94	40	7.21e-09
Se78	78	34	3.52e-08		Zr95	95	40	0.00e+00
Se79	79	34	1.03e-09		Zr96	96	40	2.04e-09
Se80	80	34	7.02e-08		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	1.68e-09
Se82	82	34	1.10e-08		Nb94	94	41	0.00e+00
Br79	79	35	1.09e-08		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	1.19e-08		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	9.10e-10
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	5.90e-10
Kr80	80	36	2.61e-09		Mo95	95	42	1.40e-09
Kr81	81	36	4.01e-11		Mo96	96	42	1.65e-09
Kr82	82	36	1.52e-08		Mo97	97	42	8.73e-10
Kr83	83	36	1.35e-08		Mo98	98	42	2.39e-09
Kr84	84	36	6.89e-08		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	7.15e-10

Tc97	97	43	5.79e-13
Tc98	98	43	0.00e+00
Tc99	99	43	9.78e-11
Ru96	96	44	2.29e-10
Ru97	97	44	0.00e+00
Ru98	98	44	7.89e-11
Ru99	99	44	5.57e-10
Ru00	100	44	9.00e-10
Ru01	101	44	8.18e-10
Ru02	102	44	1.89e-09
Ru03	103	44	0.00e+00
Ru04	104	44	8.97e-10
Ru05	105	44	0.00e+00
Ru06	106	44	0.00e+00
Rh03	103	45	9.71e-10
Rh05	105	45	0.00e+00
Pd04	104	46	6.49e-10
Pd05	105	46	8.73e-10
Pd06	106	46	1.32e-09
Pd07	107	46	6.37e-11
Pd08	108	46	1.36e-09
Pd09	109	46	0.00e+00
Pd10	110	46	4.87e-10
Ag07	107	47	6.38e-10
Ag09	109	47	7.17e-10
Ag11	111	47	0.00e+00
Cd08	108	48	4.27e-11
Cd09	109	48	0.00e+00
Cd10	110	48	8.11e-10
Cd11	111	48	6.37e-10
Cd12	112	48	1.42e-09
Cd13	113	48	6.34e-10
Cd14	114	48	1.81e-09
Cd15	115	48	0.00e+00
Cd16	116	48	4.92e-10
In13	113	49	2.09e-11
In15	115	49	5.90e-10
Sn14	114	50	6.64e-11
Sn15	115	50	3.44e-11
Sn16	116	50	2.19e-09
Sn17	117	50	1.03e-09

Sn18	118	50	3.71e-09
Sn19	119	50	1.26e-09
Sn20	120	50	5.45e-09
Sn21	121	50	0.00e+00
Sn22	122	50	1.12e-09
Sn23	123	50	0.00e+00
Sn24	124	50	7.14e-10
Sb21	121	51	6.99e-10
Sb22	122	51	0.00e+00
Sb23	123	51	4.86e-10
Sb24	124	51	0.00e+00
Sb25	125	51	0.00e+00
Te22	122	52	5.87e-10
Te23	123	52	2.03e-10
Te24	124	52	1.20e-09
Te25	125	52	1.18e-09
Te26	126	52	3.64e-09
Te27	127	52	0.00e+00
Te28	128	52	4.73e-09
Te30	130	52	4.99e-09
I127	127	53	3.11e-09
I128	128	53	0.00e+00
I129	129	53	4.63e-12
I130	130	53	0.00e+00
I131	131	53	0.00e+00
I132	132	53	0.00e+00
I133	133	53	0.00e+00
Xe28	128	54	6.71e-10
Xe29	129	54	4.59e-09
Xe30	130	54	1.35e-09
Xe31	131	54	3.77e-09
Xe32	132	54	5.58e-09
Xe33	133	54	0.00e+00
Xe34	134	54	2.16e-09
Xe35	135	54	0.00e+00
Xe36	136	54	1.43e-09
Cs33	133	55	1.30e-09
Cs34	134	55	0.00e+00
Cs35	135	55	1.56e-10
Cs36	136	55	0.00e+00
Cs37	137	55	2.57e-13

Ba34	134	56	6.77e-10		Sm51	151	62	0.00e+00
Ba35	135	56	1.04e-09		Sm52	152	62	3.94e-10
Ba36	136	56	2.19e-09		Sm53	153	62	0.00e+00
Ba37	137	56	3.23e-09		Sm54	154	62	2.85e-10
Ba38	138	56	2.54e-08		Eu51	151	63	1.85e-10
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	2.09e-10
La39	139	57	3.27e-09		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	8.36e-09		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	1.16e-09		Gd52	152	64	6.58e-12
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	6.62e-11
Pr41	141	59	1.15e-09		Gd55	155	64	2.21e-10
Pr42	142	59	0.00e+00		Gd56	156	64	3.73e-10
Pr43	143	59	0.00e+00		Gd57	157	64	2.50e-10
Pr45	145	59	0.00e+00		Gd58	158	64	5.30e-10
Nd42	142	60	1.82e-09		Gd59	159	64	0.00e+00
Nd43	143	60	5.94e-10		Gd60	160	64	3.31e-10
Nd44	144	60	1.55e-09		Tb59	159	65	2.73e-10
Nd45	145	60	4.02e-10		Tb60	160	65	0.00e+00
Nd46	146	60	1.27e-09		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	1.10e-10
Nd48	148	60	3.29e-10		Dy61	161	66	3.19e-10
Nd49	149	60	0.00e+00		Dy62	162	66	5.51e-10
Nd50	150	60	1.71e-10		Dy63	163	66	4.21e-10
Pm45	145	61	0.00e+00		Dy64	164	66	6.76e-10
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	3.47e-12
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	4.15e-10
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	2.69e-11		Er64	164	68	4.78e-11
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	4.48e-10
Sm47	147	62	2.29e-10		Er67	167	68	2.85e-10
Sm48	148	62	2.80e-10		Er68	168	68	4.83e-10
Sm49	149	62	1.65e-10		Er69	169	68	0.00e+00
Sm50	150	62	2.37e-10		Er70	170	68	2.65e-10

Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	1.58e-10
Tm69	169	69	1.93e-10		Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00		Re87	187	75	1.86e-10
Tm71	171	69	0.00e+00		Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00		Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00		Os86	186	76	1.46e-10
Yb70	170	70	8.66e-11		Os87	187	76	8.19e-11
Yb71	171	70	2.44e-10		Os88	188	76	6.77e-10
Yb72	172	70	4.38e-10		Os89	189	76	5.45e-10
Yb73	173	70	2.71e-10		Os90	190	76	1.12e-09
Yb74	174	70	8.14e-10		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	1.46e-09
Yb76	176	70	2.51e-10		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	2.11e-10		Ir91	191	77	1.13e-09
Lu76	176	71	1.55e-11		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	1.92e-09
Hf76	176	72	1.23e-10		Ir94	194	77	0.00e+00
Hf77	177	72	1.91e-10		Ir95	195	77	0.00e+00
Hf78	178	72	4.55e-10		Pt92	192	78	1.38e-10
Hf79	179	72	1.90e-10		Pt93	193	78	0.00e+00
Hf80	180	72	7.49e-10		Pt94	194	78	2.45e-09
Hf81	181	72	0.00e+00		Pt95	195	78	2.24e-09
Hf82	182	72	4.30e-11		Pt96	196	78	2.10e-09
Hf83	183	72	0.00e+00		Pt97	197	78	0.00e+00
Hf84	184	72	0.00e+00		Pt98	198	78	5.23e-10
Ta79	179	73	0.00e+00		Au97	197	79	1.05e-09
Ta80	180	73	0.00e+00		Au98	198	79	0.00e+00
Ta81	181	73	1.98e-10		Au99	199	79	0.00e+00
Ta82	182	73	0.00e+00		Hg98	198	80	6.24e-10
Ta83	183	73	0.00e+00		Hg99	199	80	5.43e-10
Ta84	184	73	0.00e+00		Hg00	200	80	1.14e-09
W180	180	74	6.51e-13		Hg01	201	80	5.58e-10
W181	181	74	0.00e+00		Hg02	202	80	1.76e-09
W182	182	74	3.21e-10		Hg03	203	80	0.00e+00
W183	183	74	2.14e-10		Hg04	204	80	2.09e-10
W184	184	74	5.05e-10		Tl03	203	81	8.22e-10
W185	185	74	0.00e+00		Tl04	204	81	0.00e+00
W186	186	74	3.41e-10		Tl05	205	81	1.39e-09
W187	187	74	0.00e+00		Pb04	204	82	9.66e-10

Isotope	A	Z	YIELD
Pb05	205	82	1.36e-10
Pb06	206	82	1.01e-08
Pb07	207	82	1.26e-08
Pb08	208	82	1.37e-07
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	3.26e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M_α = 5.00; Z = 0.006000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [M_α]
H	1	1	2.78e+00
He4	4	2	1.29e+00
C12	12	6	4.59e-03
C13	13	6	1.16e-04
C14	14	6	9.01e-08
N14	14	7	4.38e-03
N15	15	7	2.13e-06
O16	16	8	9.70e-03
O17	17	8	3.65e-05
O18	18	8	1.47e-05
F18	18	9	0.00e+00
F19	19	9	6.90e-07
Ne20	20	10	1.90e-03
Ne21	21	10	8.65e-06
Ne22	22	10	1.99e-04
Na22	22	11	0.00e+00
Na23	23	11	1.01e-04
Na24	24	11	0.00e+00
Mg24	24	12	9.49e-04
Mg25	25	12	1.19e-04
Mg26	26	12	1.57e-04
Al26	26	13	9.85e-08
Al27	27	13	1.11e-04
Si28	28	14	1.24e-03

Isotope	A	Z	YIELD
Si29	29	14	6.53e-05
Si30	30	14	4.47e-05
Si31	31	14	0.00e+00
Si32	32	14	2.88e-13
P31	31	15	1.16e-05
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	6.51e-04
S33	33	16	5.31e-06
S34	34	16	3.08e-05
S35	35	16	0.00e+00
S36	36	16	1.37e-07
Cl35	35	17	6.66e-06
Cl36	36	17	9.95e-10
Cl37	37	17	2.28e-06
Ar36	36	18	1.49e-04
Ar37	37	18	0.00e+00
Ar38	38	18	2.87e-05
Ar39	39	18	6.67e-11
Ar40	40	18	5.39e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	6.19e-06
K40	40	19	9.38e-09
K41	41	19	4.75e-07
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	1.12e-04
Ca41	41	20	2.95e-09
Ca42	42	20	7.90e-07
Ca43	43	20	1.69e-07
Ca44	44	20	2.65e-06
Ca45	45	20	0.00e+00
Ca46	46	20	5.91e-09
Ca47	47	20	0.00e+00
Ca48	48	20	2.59e-07
Sc45	45	21	7.43e-08
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00

Ti46	46	22	4.36e-07		Zn68	68	30	7.86e-07
Ti47	47	22	4.01e-07		Zn69	69	30	0.00e+00
Ti48	48	22	4.06e-06		Zn70	70	30	2.62e-08
Ti49	49	22	3.09e-07		Ga69	69	31	7.47e-08
Ti50	50	22	3.06e-07		Ga70	70	31	0.00e+00
V50	50	23	1.72e-09		Ga71	71	31	5.10e-08
V51	51	23	7.03e-07		Ga72	72	31	0.00e+00
Cr50	50	24	1.37e-06		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	8.94e-08
Cr52	52	24	2.75e-05		Ge71	71	32	0.00e+00
Cr53	53	24	3.18e-06		Ge72	72	32	1.19e-07
Cr54	54	24	8.25e-07		Ge73	73	32	3.37e-08
Mn55	55	25	2.41e-05		Ge74	74	32	1.61e-07
Mn56	56	25	0.00e+00		Ge75	75	32	0.00e+00
Fe54	54	26	1.31e-04		Ge76	76	32	3.26e-08
Fe55	55	26	1.70e-12		Ge77	77	32	0.00e+00
Fe56	56	26	2.14e-03		As75	75	33	2.24e-08
Fe57	57	26	5.10e-05		As76	76	33	0.00e+00
Fe58	58	26	7.72e-06		As77	77	33	0.00e+00
Fe59	59	26	0.00e+00		Se76	76	34	2.46e-08
Fe60	60	26	6.37e-08		Se77	77	34	1.95e-08
Co59	59	27	6.54e-06		Se78	78	34	6.39e-08
Co60	60	27	1.50e-13		Se79	79	34	7.81e-10
Ni58	58	28	9.04e-05		Se80	80	34	1.34e-07
Ni59	59	28	1.77e-08		Se81	81	34	0.00e+00
Ni60	60	28	3.62e-05		Se82	82	34	2.19e-08
Ni61	61	28	1.66e-06		Br79	79	35	2.19e-08
Ni62	62	28	5.27e-06		Br80	80	35	0.00e+00
Ni63	63	28	8.72e-11		Br81	81	35	2.26e-08
Ni64	64	28	1.42e-06		Br82	82	35	0.00e+00
Ni65	65	28	0.00e+00		Br83	83	35	0.00e+00
Ni66	66	28	0.00e+00		Br84	84	35	0.00e+00
Cu63	63	29	1.15e-06		Kr80	80	36	5.06e-09
Cu64	64	29	0.00e+00		Kr81	81	36	4.29e-11
Cu65	65	29	5.21e-07		Kr82	82	36	2.77e-08
Cu66	66	29	0.00e+00		Kr83	83	36	2.61e-08
Cu67	67	29	0.00e+00		Kr84	84	36	1.32e-07
Zn64	64	30	1.88e-06		Kr85	85	36	0.00e+00
Zn65	65	30	0.00e+00		Kr86	86	36	5.00e-08
Zn66	66	30	1.12e-06		Kr87	87	36	0.00e+00
Zn67	67	30	1.69e-07		Kr88	88	36	0.00e+00

Rb85	85	37	2.13e-08		Ru96	96	44	4.62e-10
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	1.15e-08		Ru98	98	44	1.59e-10
Rb88	88	37	0.00e+00		Ru99	99	44	1.12e-09
Sr86	86	38	1.10e-08		Ru00	100	44	1.64e-09
Sr87	87	38	8.21e-09		Ru01	101	44	1.62e-09
Sr88	88	38	1.10e-07		Ru02	102	44	3.58e-09
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	1.34e-13		Ru04	104	44	1.77e-09
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	2.73e-08		Rh03	103	45	1.93e-09
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	1.21e-09
Y92	92	39	0.00e+00		Pd05	105	46	1.74e-09
Y93	93	39	0.00e+00		Pd06	106	46	2.54e-09
Zr90	90	40	3.27e-08		Pd07	107	46	1.01e-10
Zr91	91	40	7.85e-09		Pd08	108	46	2.63e-09
Zr92	92	40	1.23e-08		Pd09	109	46	0.00e+00
Zr93	93	40	1.37e-09		Pd10	110	46	9.54e-10
Zr94	94	40	1.35e-08		Ag07	107	47	1.30e-09
Zr95	95	40	0.00e+00		Ag09	109	47	1.42e-09
Zr96	96	40	2.78e-09		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	7.67e-11
Nb93	93	41	3.39e-09		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	1.56e-09
Nb95	95	41	0.00e+00		Cd11	111	48	1.26e-09
Nb96	96	41	0.00e+00		Cd12	112	48	2.77e-09
Nb97	97	41	0.00e+00		Cd13	113	48	1.25e-09
Mo92	92	42	1.84e-09		Cd14	114	48	3.54e-09
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	1.18e-09		Cd16	116	48	8.96e-10
Mo95	95	42	2.65e-09		In13	113	49	4.22e-11
Mo96	96	42	3.12e-09		In15	115	49	1.17e-09
Mo97	97	42	1.62e-09		Sn14	114	50	1.34e-10
Mo98	98	42	4.37e-09		Sn15	115	50	6.93e-11
Mo99	99	42	0.00e+00		Sn16	116	50	4.36e-09
Mo00	100	42	1.39e-09		Sn17	117	50	2.05e-09
Tc97	97	43	3.18e-13		Sn18	118	50	7.32e-09
Tc98	98	43	0.00e+00		Sn19	119	50	2.49e-09
Tc99	99	43	1.42e-10		Sn20	120	50	1.07e-08

Sn21	121	50	0.00e+00		Ba37	137	56	5.71e-09
Sn22	122	50	1.63e-09		Ba38	138	56	5.27e-08
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00
Sn24	124	50	1.30e-09		Ba40	140	56	0.00e+00
Sb21	121	51	1.39e-09		La39	139	57	6.76e-09
Sb22	122	51	0.00e+00		La40	140	57	0.00e+00
Sb23	123	51	9.26e-10		Ce40	140	58	1.84e-08
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	1.82e-09
Te22	122	52	1.16e-09		Ce43	143	58	0.00e+00
Te23	123	52	4.03e-10		Ce44	144	58	0.00e+00
Te24	124	52	2.28e-09		Pr41	141	59	2.44e-09
Te25	125	52	2.34e-09		Pr42	142	59	0.00e+00
Te26	126	52	7.13e-09		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	9.48e-09		Nd42	142	60	4.21e-09
Te30	130	52	1.01e-08		Nd43	143	60	1.21e-09
I127	127	53	6.28e-09		Nd44	144	60	3.07e-09
I128	128	53	0.00e+00		Nd45	145	60	8.01e-10
I129	129	53	7.27e-12		Nd46	146	60	2.53e-09
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	6.27e-10
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	3.45e-10
Xe28	128	54	1.26e-09		Pm45	145	61	0.00e+00
Xe29	129	54	9.29e-09		Pm46	146	61	0.00e+00
Xe30	130	54	2.58e-09		Pm47	147	61	0.00e+00
Xe31	131	54	7.63e-09		Pm48	148	61	0.00e+00
Xe32	132	54	1.12e-08		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	3.88e-09		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	5.44e-11
Xe36	136	54	2.77e-09		Sm45	145	62	0.00e+00
Cs33	133	55	2.63e-09		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	4.58e-10
Cs35	135	55	2.53e-10		Sm48	148	62	5.77e-10
Cs36	136	55	0.00e+00		Sm49	149	62	3.33e-10
Cs37	137	55	1.99e-13		Sm50	150	62	4.70e-10
Ba34	134	56	1.39e-09		Sm51	151	62	0.00e+00
Ba35	135	56	2.13e-09		Sm52	152	62	7.90e-10
Ba36	136	56	4.51e-09		Sm53	153	62	0.00e+00

Sm54	154	62	5.61e-10		Tm70	170	69	0.00e+00
Eu51	151	63	3.76e-10		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00
Eu53	153	63	4.22e-10		Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00		Yb70	170	70	1.70e-10
Eu55	155	63	0.00e+00		Yb71	171	70	4.80e-10
Eu56	156	63	0.00e+00		Yb72	172	70	8.71e-10
Eu57	157	63	0.00e+00		Yb73	173	70	5.40e-10
Gd52	152	64	1.04e-11		Yb74	174	70	1.61e-09
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00
Gd54	154	64	1.29e-10		Yb76	176	70	4.68e-10
Gd55	155	64	4.44e-10		Yb77	177	70	0.00e+00
Gd56	156	64	7.44e-10		Lu75	175	71	4.22e-10
Gd57	157	64	5.02e-10		Lu76	176	71	3.06e-11
Gd58	158	64	1.05e-09		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	2.44e-10
Gd60	160	64	6.52e-10		Hf77	177	72	3.81e-10
Tb59	159	65	5.50e-10		Hf78	178	72	8.95e-10
Tb60	160	65	0.00e+00		Hf79	179	72	3.76e-10
Tb61	161	65	0.00e+00		Hf80	180	72	1.48e-09
Dy60	160	66	2.14e-10		Hf81	181	72	0.00e+00
Dy61	161	66	6.44e-10		Hf82	182	72	7.33e-11
Dy62	162	66	1.09e-09		Hf83	183	72	0.00e+00
Dy63	163	66	8.49e-10		Hf84	184	72	0.00e+00
Dy64	164	66	1.34e-09		Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00		Ta80	180	73	1.35e-13
Dy66	166	66	0.00e+00		Ta81	181	73	3.90e-10
Ho63	163	67	7.25e-12		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta83	183	73	0.00e+00
Ho65	165	67	8.37e-10		Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00		W180	180	74	1.32e-12
Er64	164	68	9.34e-11		W181	181	74	0.00e+00
Er65	165	68	0.00e+00		W182	182	74	6.50e-10
Er66	166	68	8.96e-10		W183	183	74	4.23e-10
Er67	167	68	5.73e-10		W184	184	74	1.01e-09
Er68	168	68	9.51e-10		W185	185	74	0.00e+00
Er69	169	68	0.00e+00		W186	186	74	6.71e-10
Er70	170	68	5.04e-10		W187	187	74	0.00e+00
Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	3.15e-10
Tm69	169	69	3.84e-10		Re86	186	75	0.00e+00

Isotope	A	Z	Yield
Re87	187	75	3.73e-10
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	3.03e-10
Os87	187	76	1.70e-10
Os88	188	76	1.36e-09
Os89	189	76	1.11e-09
Os90	190	76	2.24e-09
Os91	191	76	0.00e+00
Os92	192	76	2.90e-09
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	2.31e-09
Ir92	192	77	0.00e+00
Ir93	193	77	3.89e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	2.61e-10
Pt93	193	78	0.00e+00
Pt94	194	78	4.86e-09
Pt95	195	78	4.53e-09
Pt96	196	78	4.14e-09
Pt97	197	78	0.00e+00
Pt98	198	78	1.02e-09
Au97	197	79	2.11e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.22e-09
Hg99	199	80	1.07e-09
Hg00	200	80	2.27e-09
Hg01	201	80	1.12e-09
Hg02	202	80	3.68e-09
Hg03	203	80	0.00e+00
Hg04	204	80	3.79e-10
Tl03	203	81	1.73e-09
Tl04	204	81	0.00e+00
Tl05	205	81	3.17e-09
Pb04	204	82	2.08e-09
Pb05	205	82	1.53e-10
Pb06	206	82	1.91e-08
Pb07	207	82	2.32e-08

Isotope	A	Z	Yield
Pb08	208	82	7.00e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	2.08e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 5.00; Z = 0.008000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	2.79e+00
He4	4	2	1.29e+00
C12	12	6	5.45e-03
C13	13	6	1.56e-04
C14	14	6	9.20e-08
N14	14	7	5.72e-03
N15	15	7	2.92e-06
O16	16	8	1.31e-02
O17	17	8	4.31e-05
O18	18	8	2.01e-05
F18	18	9	0.00e+00
F19	19	9	9.55e-07
Ne20	20	10	2.54e-03
Ne21	21	10	1.20e-05
Ne22	22	10	2.65e-04
Na22	22	11	0.00e+00
Na23	23	11	1.27e-04
Na24	24	11	0.00e+00
Mg24	24	12	1.27e-03
Mg25	25	12	1.60e-04
Mg26	26	12	2.08e-04
Al26	26	13	1.53e-07
Al27	27	13	1.49e-04
Si28	28	14	1.66e-03
Si29	29	14	8.74e-05
Si30	30	14	5.97e-05
Si31	31	14	0.00e+00

Si32	32	14	1.72e-13
P31	31	15	1.55e-05
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	8.71e-04
S33	33	16	7.12e-06
S34	34	16	4.12e-05
S35	35	16	0.00e+00
S36	36	16	1.82e-07
Cl35	35	17	8.92e-06
Cl36	36	17	1.15e-09
Cl37	37	17	3.05e-06
Ar36	36	18	2.00e-04
Ar37	37	18	0.00e+00
Ar38	38	18	3.84e-05
Ar39	39	18	5.96e-11
Ar40	40	18	7.23e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	8.29e-06
K40	40	19	1.23e-08
K41	41	19	6.34e-07
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	1.50e-04
Ca41	41	20	2.92e-09
Ca42	42	20	1.06e-06
Ca43	43	20	2.26e-07
Ca44	44	20	3.55e-06
Ca45	45	20	0.00e+00
Ca46	46	20	7.69e-09
Ca47	47	20	0.00e+00
Ca48	48	20	3.47e-07
Sc45	45	21	9.94e-08
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	5.85e-07
Ti47	47	22	5.38e-07
Ti48	48	22	5.44e-06

Ti49	49	22	4.13e-07
Ti50	50	22	4.09e-07
V50	50	23	2.31e-09
V51	51	23	9.41e-07
Cr50	50	24	1.83e-06
Cr51	51	24	0.00e+00
Cr52	52	24	3.68e-05
Cr53	53	24	4.26e-06
Cr54	54	24	1.10e-06
Mn55	55	25	3.22e-05
Mn56	56	25	0.00e+00
Fe54	54	26	1.76e-04
Fe55	55	26	2.57e-12
Fe56	56	26	2.87e-03
Fe57	57	26	6.82e-05
Fe58	58	26	1.02e-05
Fe59	59	26	0.00e+00
Fe60	60	26	5.28e-08
Co59	59	27	8.70e-06
Co60	60	27	1.22e-13
Ni58	58	28	1.21e-04
Ni59	59	28	2.40e-08
Ni60	60	28	4.84e-05
Ni61	61	28	2.20e-06
Ni62	62	28	7.03e-06
Ni63	63	28	6.76e-11
Ni64	64	28	1.88e-06
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	1.52e-06
Cu64	64	29	0.00e+00
Cu65	65	29	6.96e-07
Cu68	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	2.51e-06
Zn65	65	30	0.00e+00
Zn66	66	30	1.50e-06
Zn67	67	30	2.26e-07
Zn68	68	30	1.05e-06
Zn69	69	30	0.00e+00
Zn70	70	30	3.51e-08

Ga69	69	31	1.00e-07		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	1.55e-08
Ga71	71	31	6.85e-08		Sr87	87	38	1.15e-08
Ga72	72	31	0.00e+00		Sr88	88	38	1.60e-07
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	1.20e-07		Sr90	90	38	1.42e-13
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	1.60e-07		Sr92	92	38	0.00e+00
Ge73	73	32	4.52e-08		Y89	89	39	3.95e-08
Ge74	74	32	2.16e-07		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	4.37e-08		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	3.01e-08		Zr90	90	40	4.72e-08
As76	76	33	0.00e+00		Zr91	91	40	1.14e-08
As77	77	33	0.00e+00		Zr92	92	40	1.78e-08
Se76	76	34	3.31e-08		Zr93	93	40	2.34e-09
Se77	77	34	2.62e-08		Zr94	94	40	2.00e-08
Se78	78	34	8.63e-08		Zr95	95	40	0.00e+00
Se79	79	34	1.13e-09		Zr96	96	40	3.70e-09
Se80	80	34	1.80e-07		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	4.55e-09
Se82	82	34	2.93e-08		Nb94	94	41	0.00e+00
Br79	79	35	2.94e-08		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	3.05e-08		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	2.46e-09
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	1.57e-09
Kr80	80	36	6.77e-09		Mo95	95	42	3.77e-09
Kr81	81	36	7.61e-11		Mo96	96	42	4.60e-09
Kr82	82	36	3.77e-08		Mo97	97	42	2.30e-09
Kr83	83	36	3.52e-08		Mo98	98	42	6.33e-09
Kr84	84	36	1.78e-07		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	1.87e-09
Kr86	86	36	6.91e-08		Tc97	97	43	0.00e+00
Kr87	87	36	0.00e+00		Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00		Tc99	99	43	2.43e-10
Rb85	85	37	2.88e-08		Ru96	96	44	6.20e-10
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	1.56e-08		Ru98	98	44	2.13e-10

Ru99	99	44	1.51e-09		Sn24	124	50	1.74e-09
Ru00	100	44	2.43e-09		Sb21	121	51	1.98e-09
Ru01	101	44	2.23e-09		Sb22	122	51	0.00e+00
Ru02	102	44	5.16e-09		Sb23	123	51	1.25e-09
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	2.39e-09		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	1.75e-09
Ru06	106	44	0.00e+00		Te23	123	52	6.07e-10
Rh03	103	45	2.65e-09		Te24	124	52	3.42e-09
Rh05	105	45	0.00e+00		Te25	125	52	3.26e-09
Pd04	104	46	1.80e-09		Te26	126	52	1.03e-08
Pd05	105	46	2.39e-09		Te27	127	52	0.00e+00
Pd06	106	46	3.63e-09		Te28	128	52	1.28e-08
Pd07	107	46	1.80e-10		Te30	130	52	1.35e-08
Pd08	108	46	3.83e-09		I127	127	53	8.52e-09
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	1.30e-09		I129	129	53	1.11e-11
Ag07	107	47	1.74e-09		I130	130	53	0.00e+00
Ag09	109	47	1.99e-09		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	9.88e-11		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	1.91e-09
Cd10	110	48	2.34e-09		Xe29	129	54	1.26e-08
Cd11	111	48	1.78e-09		Xe30	130	54	3.94e-09
Cd12	112	48	4.04e-09		Xe31	131	54	1.04e-08
Cd13	113	48	1.78e-09		Xe32	132	54	1.60e-08
Cd14	114	48	5.23e-09		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	5.18e-09
Cd16	116	48	1.23e-09		Xe35	135	54	0.00e+00
In13	113	49	5.65e-11		Xe36	136	54	3.70e-09
In15	115	49	1.67e-09		Cs33	133	55	3.67e-09
Sn14	114	50	1.79e-10		Cs34	134	55	0.00e+00
Sn15	115	50	9.28e-11		Cs35	135	55	3.96e-10
Sn16	116	50	6.51e-09		Cs36	136	55	0.00e+00
Sn17	117	50	2.95e-09		Cs37	137	55	2.15e-13
Sn18	118	50	1.08e-08		Ba34	134	56	2.20e-09
Sn19	119	50	3.64e-09		Ba35	135	56	2.97e-09
Sn20	120	50	1.60e-08		Ba36	136	56	7.09e-09
Sn21	121	50	0.00e+00		Ba37	137	56	8.41e-09
Sn22	122	50	2.15e-09		Ba38	138	56	7.81e-08
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00

Ba40	140	56	0.00e+00		Eu53	153	63	5.67e-10
La39	139	57	9.85e-09		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	2.62e-08		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	2.28e-09		Gd52	152	64	1.26e-11
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	1.74e-10
Pr41	141	59	3.40e-09		Gd55	155	64	5.94e-10
Pr42	142	59	0.00e+00		Gd56	156	64	9.93e-10
Pr43	143	59	0.00e+00		Gd57	157	64	6.72e-10
Pr45	145	59	0.00e+00		Gd58	158	64	1.40e-09
Nd42	142	60	6.00e-09		Gd59	159	64	0.00e+00
Nd43	143	60	1.65e-09		Gd60	160	64	8.63e-10
Nd44	144	60	4.16e-09		Tb59	159	65	7.36e-10
Nd45	145	60	1.08e-09		Tb60	160	65	0.00e+00
Nd46	146	60	3.42e-09		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	2.84e-10
Nd48	148	60	8.22e-10		Dy61	161	66	8.63e-10
Nd49	149	60	0.00e+00		Dy62	162	66	1.45e-09
Nd50	150	60	4.61e-10		Dy63	163	66	1.14e-09
Pm45	145	61	0.00e+00		Dy64	164	66	1.77e-09
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	9.03e-12
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	1.12e-09
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	7.29e-11		Er64	164	68	1.25e-10
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	1.19e-09
Sm47	147	62	6.16e-10		Er67	167	68	7.65e-10
Sm48	148	62	7.93e-10		Er68	168	68	1.26e-09
Sm49	149	62	4.47e-10		Er69	169	68	0.00e+00
Sm50	150	62	6.32e-10		Er70	170	68	6.54e-10
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	1.06e-09		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	5.10e-10
Sm54	154	62	7.41e-10		Tm70	170	69	0.00e+00
Eu51	151	63	5.06e-10		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00

Tm73	173	69	0.00e+00	Os86	186	76	4.02e-10
Yb70	170	70	2.27e-10	Os87	187	76	2.28e-10
Yb71	171	70	6.31e-10	Os88	188	76	1.78e-09
Yb72	172	70	1.16e-09	Os89	189	76	1.48e-09
Yb73	173	70	7.15e-10	Os90	190	76	2.94e-09
Yb74	174	70	2.12e-09	Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00	Os92	192	76	3.84e-09
Yb76	176	70	6.03e-10	Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00	Os94	194	76	0.00e+00
Lu75	175	71	5.60e-10	Ir91	191	77	3.09e-09
Lu76	176	71	4.00e-11	Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00	Ir93	193	77	5.20e-09
Hf76	176	72	3.20e-10	Ir94	194	77	0.00e+00
Hf77	177	72	5.05e-10	Ir95	195	77	0.00e+00
Hf78	178	72	1.17e-09	Pt92	192	78	3.31e-10
Hf79	179	72	4.95e-10	Pt93	193	78	0.00e+00
Hf80	180	72	1.92e-09	Pt94	194	78	6.40e-09
Hf81	181	72	0.00e+00	Pt95	195	78	6.04e-09
Hf82	182	72	8.82e-11	Pt96	196	78	5.41e-09
Hf83	183	72	0.00e+00	Pt97	197	78	0.00e+00
Hf84	184	72	0.00e+00	Pt98	198	78	1.35e-09
Ta79	179	73	0.00e+00	Au97	197	79	2.80e-09
Ta80	180	73	1.80e-13	Au98	198	79	0.00e+00
Ta81	181	73	5.08e-10	Au99	199	79	0.00e+00
Ta82	182	73	0.00e+00	Hg98	198	80	1.52e-09
Ta83	183	73	0.00e+00	Hg99	199	80	1.39e-09
Ta84	184	73	0.00e+00	Hg00	200	80	2.87e-09
W180	180	74	1.78e-12	Hg01	201	80	1.43e-09
W181	181	74	0.00e+00	Hg02	202	80	4.57e-09
W182	182	74	8.59e-10	Hg03	203	80	0.00e+00
W183	183	74	5.49e-10	Hg04	204	80	4.73e-10
W184	184	74	1.31e-09	Tl03	203	81	2.12e-09
W185	185	74	0.00e+00	Tl04	204	81	0.00e+00
W186	186	74	8.61e-10	Tl05	205	81	3.95e-09
W187	187	74	0.00e+00	Pb04	204	82	2.54e-09
W188	188	74	0.00e+00	Pb05	205	82	1.53e-10
Re85	185	75	4.10e-10	Pb06	206	82	2.12e-08
Re86	186	75	0.00e+00	Pb07	207	82	2.28e-08
Re87	187	75	4.89e-10	Pb08	208	82	5.36e-08
Re88	188	75	0.00e+00	Pb09	209	82	0.00e+00
Re89	189	75	0.00e+00	Pb10	210	82	0.00e+00

Isotope	A	Z	YIELD [$M_\odot$]
Bi09	209	83	2.18e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 5.00; Z = 0.010000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	2.79e+00
He4	4	2	1.28e+00
C12	12	6	5.62e-03
C13	13	6	1.95e-04
C14	14	6	8.36e-08
N14	14	7	7.06e-03
N15	15	7	3.71e-06
O16	16	8	1.63e-02
O17	17	8	5.07e-05
O18	18	8	2.53e-05
F18	18	9	0.00e+00
F19	19	9	1.19e-06
Ne20	20	10	3.18e-03
Ne21	21	10	1.43e-05
Ne22	22	10	2.99e-04
Na22	22	11	0.00e+00
Na23	23	11	1.56e-04
Na24	24	11	0.00e+00
Mg24	24	12	1.59e-03
Mg25	25	12	1.98e-04
Mg26	26	12	2.58e-04
Al26	26	13	2.64e-07
Al27	27	13	1.84e-04
Si28	28	14	2.07e-03
Si29	29	14	1.09e-04
Si30	30	14	7.44e-05
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	1.94e-05
P32	32	15	0.00e+00

Isotope	A	Z	YIELD [$M_\odot$]
P33	33	15	0.00e+00
S32	32	16	1.09e-03
S33	33	16	8.89e-06
S34	34	16	5.14e-05
S35	35	16	0.00e+00
S36	36	16	2.24e-07
Cl35	35	17	1.12e-05
Cl36	36	17	1.12e-09
Cl37	37	17	3.80e-06
Ar36	36	18	2.50e-04
Ar37	37	18	0.00e+00
Ar38	38	18	4.80e-05
Ar39	39	18	2.96e-11
Ar40	40	18	8.69e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	1.04e-05
K40	40	19	1.46e-08
K41	41	19	7.90e-07
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	1.87e-04
Ca41	41	20	2.91e-09
Ca42	42	20	1.32e-06
Ca43	43	20	2.81e-07
Ca44	44	20	4.43e-06
Ca45	45	20	0.00e+00
Ca46	46	20	9.14e-09
Ca47	47	20	0.00e+00
Ca48	48	20	4.34e-07
Sc45	45	21	1.23e-07
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	7.30e-07
Ti47	47	22	6.72e-07
Ti48	48	22	6.80e-06
Ti49	49	22	5.15e-07
Ti50	50	22	5.06e-07
V50	50	23	2.88e-09

V51	51	23	1.18e-06		Ga72	72	31	0.00e+00
Cr50	50	24	2.29e-06		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	1.48e-07
Cr52	52	24	4.60e-05		Ge71	71	32	0.00e+00
Cr53	53	24	5.32e-06		Ge72	72	32	1.97e-07
Cr54	54	24	1.36e-06		Ge73	73	32	5.59e-08
Mn55	55	25	4.02e-05		Ge74	74	32	2.66e-07
Mn56	56	25	0.00e+00		Ge75	75	32	0.00e+00
Fe54	54	26	2.20e-04		Ge76	76	32	5.45e-08
Fe55	55	26	2.95e-12		Ge77	77	32	0.00e+00
Fe56	56	26	3.59e-03		As75	75	33	3.72e-08
Fe57	57	26	8.50e-05		As76	76	33	0.00e+00
Fe58	58	26	1.21e-05		As77	77	33	0.00e+00
Fe59	59	26	0.00e+00		Se76	76	34	4.04e-08
Fe60	60	26	1.60e-08		Se77	77	34	3.24e-08
Co59	59	27	1.07e-05		Se78	78	34	1.05e-07
Co60	60	27	0.00e+00		Se79	79	34	9.98e-10
Ni58	58	28	1.51e-04		Se80	80	34	2.22e-07
Ni59	59	28	2.85e-08		Se81	81	34	0.00e+00
Ni60	60	28	6.04e-05		Se82	82	34	3.65e-08
Ni61	61	28	2.71e-06		Br79	79	35	3.66e-08
Ni62	62	28	8.71e-06		Br80	80	35	0.00e+00
Ni63	63	28	2.88e-11		Br81	81	35	3.76e-08
Ni64	64	28	2.31e-06		Br82	82	35	0.00e+00
Ni65	65	28	0.00e+00		Br83	83	35	0.00e+00
Ni66	66	28	0.00e+00		Br84	84	35	0.00e+00
Cu63	63	29	1.86e-06		Kr80	80	36	8.42e-09
Cu64	64	29	0.00e+00		Kr81	81	36	9.13e-11
Cu65	65	29	8.60e-07		Kr82	82	36	4.58e-08
Cu66	66	29	0.00e+00		Kr83	83	36	4.36e-08
Cu67	67	29	0.00e+00		Kr84	84	36	2.19e-07
Zn64	64	30	3.14e-06		Kr85	85	36	0.00e+00
Zn65	65	30	0.00e+00		Kr86	86	36	8.02e-08
Zn66	66	30	1.87e-06		Kr87	87	36	0.00e+00
Zn67	67	30	2.81e-07		Kr88	88	36	0.00e+00
Zn68	68	30	1.30e-06		Rb85	85	37	3.47e-08
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	4.38e-08		Rb87	87	37	1.69e-08
Ga69	69	31	1.23e-07		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	1.88e-08
Ga71	71	31	8.47e-08		Sr87	87	38	1.41e-08

Sr88	88	38	1.84e-07		Ru02	102	44	6.02e-09
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	2.92e-09
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	4.47e-08		Rh03	103	45	3.23e-09
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	2.04e-09
Y92	92	39	0.00e+00		Pd05	105	46	2.93e-09
Y93	93	39	0.00e+00		Pd06	106	46	4.25e-09
Zr90	90	40	5.50e-08		Pd07	107	46	1.69e-10
Zr91	91	40	1.29e-08		Pd08	108	46	4.43e-09
Zr92	92	40	2.00e-08		Pd09	109	46	0.00e+00
Zr93	93	40	2.05e-09		Pd10	110	46	1.55e-09
Zr94	94	40	2.23e-08		Ag07	107	47	2.17e-09
Zr95	95	40	0.00e+00		Ag09	109	47	2.38e-09
Zr96	96	40	3.41e-09		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	1.23e-10
Nb93	93	41	5.68e-09		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	2.63e-09
Nb95	95	41	0.00e+00		Cd11	111	48	2.11e-09
Nb96	96	41	0.00e+00		Cd12	112	48	4.63e-09
Nb97	97	41	0.00e+00		Cd13	113	48	2.10e-09
Mo92	92	42	3.08e-09		Cd14	114	48	5.93e-09
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	1.97e-09		Cd16	116	48	1.33e-09
Mo95	95	42	4.32e-09		In13	113	49	7.06e-11
Mo96	96	42	5.17e-09		In15	115	49	1.96e-09
Mo97	97	42	2.64e-09		Sn14	114	50	2.24e-10
Mo98	98	42	7.24e-09		Sn15	115	50	1.16e-10
Mo99	99	42	0.00e+00		Sn16	116	50	7.39e-09
Mo00	100	42	2.27e-09		Sn17	117	50	3.42e-09
Tc97	97	43	0.00e+00		Sn18	118	50	1.21e-08
Tc98	98	43	0.00e+00		Sn19	119	50	4.13e-09
Tc99	99	43	2.26e-10		Sn20	120	50	1.76e-08
Ru96	96	44	7.75e-10		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	2.07e-09
Ru98	98	44	2.67e-10		Sn23	123	50	0.00e+00
Ru99	99	44	1.87e-09		Sn24	124	50	2.14e-09
Ru00	100	44	2.75e-09		Sb21	121	51	2.29e-09
Ru01	101	44	2.72e-09		Sb22	122	51	0.00e+00

Sb23	123	51	1.48e-09		Ce40	140	58	2.35e-08
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	1.90e-09
Te22	122	52	1.91e-09		Ce43	143	58	0.00e+00
Te23	123	52	6.68e-10		Ce44	144	58	0.00e+00
Te24	124	52	3.69e-09		Pr41	141	59	3.19e-09
Te25	125	52	3.88e-09		Pr42	142	59	0.00e+00
Te26	126	52	1.18e-08		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	1.58e-08		Nd42	142	60	5.42e-09
Te30	130	52	1.69e-08		Nd43	143	60	1.63e-09
I127	127	53	1.05e-08		Nd44	144	60	3.77e-09
I128	128	53	0.00e+00		Nd45	145	60	1.08e-09
I129	129	53	8.88e-12		Nd46	146	60	3.00e-09
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	7.66e-10
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	5.65e-10
Xe28	128	54	2.08e-09		Pm45	145	61	0.00e+00
Xe29	129	54	1.56e-08		Pm46	146	61	0.00e+00
Xe30	130	54	4.27e-09		Pm47	147	61	0.00e+00
Xe31	131	54	1.28e-08		Pm48	148	61	0.00e+00
Xe32	132	54	1.87e-08		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	5.91e-09		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	9.11e-11
Xe36	136	54	4.61e-09		Sm45	145	62	0.00e+00
Cs33	133	55	4.38e-09		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	6.14e-10
Cs35	135	55	2.90e-10		Sm48	148	62	6.84e-10
Cs36	136	55	0.00e+00		Sm49	149	62	4.90e-10
Cs37	137	55	0.00e+00		Sm50	150	62	5.07e-10
Ba34	134	56	2.34e-09		Sm51	151	62	0.00e+00
Ba35	135	56	3.59e-09		Sm52	152	62	1.08e-09
Ba36	136	56	7.52e-09		Sm53	153	62	0.00e+00
Ba37	137	56	8.77e-09		Sm54	154	62	8.10e-10
Ba38	138	56	7.35e-08		Eu51	151	63	5.92e-10
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	6.58e-10
La39	139	57	9.30e-09		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00

Eu56	156	63	0.00e+00		Yb72	172	70	1.09e-09
Eu57	157	63	0.00e+00		Yb73	173	70	7.24e-10
Gd52	152	64	1.19e-11		Yb74	174	70	1.87e-09
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00
Gd54	154	64	1.52e-10		Yb76	176	70	5.71e-10
Gd55	155	64	6.73e-10		Yb77	177	70	0.00e+00
Gd56	156	64	1.04e-09		Lu75	175	71	5.90e-10
Gd57	157	64	7.42e-10		Lu76	176	71	3.11e-11
Gd58	158	64	1.38e-09		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	2.61e-10
Gd60	160	64	9.89e-10		Hf77	177	72	5.36e-10
Tb59	159	65	8.31e-10		Hf78	178	72	1.05e-09
Tb60	160	65	0.00e+00		Hf79	179	72	4.68e-10
Tb61	161	65	0.00e+00		Hf80	180	72	1.60e-09
Dy60	160	66	2.31e-10		Hf81	181	72	0.00e+00
Dy61	161	66	1.01e-09		Hf82	182	72	4.20e-11
Dy62	162	66	1.54e-09		Hf83	183	72	0.00e+00
Dy63	163	66	1.34e-09		Hf84	184	72	0.00e+00
Dy64	164	66	1.81e-09		Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00		Ta80	180	73	1.23e-13
Dy66	166	66	0.00e+00		Ta81	181	73	4.61e-10
Ho63	163	67	5.30e-12		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta83	183	73	0.00e+00
Ho65	165	67	1.28e-09		Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00		W180	180	74	2.22e-12
Er64	164	68	1.01e-10		W181	181	74	0.00e+00
Er65	165	68	0.00e+00		W182	182	74	7.79e-10
Er66	166	68	1.31e-09		W183	183	74	4.70e-10
Er67	167	68	8.69e-10		W184	184	74	1.09e-09
Er68	168	68	1.24e-09		W185	185	74	0.00e+00
Er69	169	68	0.00e+00		W186	186	74	7.90e-10
Er70	170	68	6.53e-10		W187	187	74	0.00e+00
Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	3.98e-10
Tm69	169	69	5.68e-10		Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00		Re87	187	75	5.35e-10
Tm71	171	69	0.00e+00		Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00		Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00		Os86	186	76	3.28e-10
Yb70	170	70	1.92e-10		Os87	187	76	2.36e-10
Yb71	171	70	6.35e-10		Os88	188	76	1.76e-09

Isotope	A	Z	YIELD
Os89	189	76	1.75e-09
Os90	190	76	3.15e-09
Os91	191	76	0.00e+00
Os92	192	76	4.47e-09
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	3.77e-09
Ir92	192	77	0.00e+00
Ir93	193	77	6.37e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	2.80e-10
Pt93	193	78	0.00e+00
Pt94	194	78	7.38e-09
Pt95	195	78	7.31e-09
Pt96	196	78	5.98e-09
Pt97	197	78	0.00e+00
Pt98	198	78	1.58e-09
Au97	197	79	3.26e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.24e-09
Hg99	199	80	1.40e-09
Hg00	200	80	2.48e-09
Hg01	201	80	1.30e-09
Hg02	202	80	3.64e-09
Hg03	203	80	0.00e+00
Hg04	204	80	4.99e-10
Tl03	203	81	1.65e-09
Tl04	204	81	0.00e+00
Tl05	205	81	3.33e-09
Pb04	204	82	1.97e-09
Pb05	205	82	6.98e-11
Pb06	206	82	1.61e-08
Pb07	207	82	1.66e-08
Pb08	208	82	4.14e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	2.41e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 5.00; Z = 0.014000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	2.76e+00
He4	4	2	1.31e+00
C12	12	6	6.49e-03
C13	13	6	2.76e-04
C14	14	6	6.02e-08
N14	14	7	9.99e-03
N15	15	7	4.99e-06
O16	16	8	2.24e-02
O17	17	8	6.76e-05
O18	18	8	3.47e-05
F18	18	9	0.00e+00
F19	19	9	1.63e-06
Ne20	20	10	4.40e-03
Ne21	21	10	1.83e-05
Ne22	22	10	3.75e-04
Na22	22	11	0.00e+00
Na23	23	11	2.16e-04
Na24	24	11	0.00e+00
Mg24	24	12	2.20e-03
Mg25	25	12	2.73e-04
Mg26	26	12	3.56e-04
Al26	26	13	3.94e-07
Al27	27	13	2.52e-04
Si28	28	14	2.87e-03
Si29	29	14	1.51e-04
Si30	30	14	1.03e-04
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	2.68e-05
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	1.51e-03
S33	33	16	1.23e-05
S34	34	16	7.11e-05

S35	35	16	0.00e+00
S36	36	16	3.07e-07
Cl35	35	17	1.54e-05
Cl36	36	17	1.14e-09
Cl37	37	17	5.25e-06
Ar36	36	18	3.46e-04
Ar37	37	18	0.00e+00
Ar38	38	18	6.64e-05
Ar39	39	18	2.28e-11
Ar40	40	18	1.17e-07
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	1.43e-05
K40	40	19	1.94e-08
K41	41	19	1.09e-06
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	2.59e-04
Ca41	41	20	3.08e-09
Ca42	42	20	1.82e-06
Ca43	43	20	3.89e-07
Ca44	44	20	6.14e-06
Ca45	45	20	0.00e+00
Ca46	46	20	1.24e-08
Ca47	47	20	0.00e+00
Ca48	48	20	6.00e-07
Sc45	45	21	1.70e-07
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	1.01e-06
Ti47	47	22	9.30e-07
Ti48	48	22	9.41e-06
Ti49	49	22	7.10e-07
Ti50	50	22	6.96e-07
V50	50	23	3.99e-09
V51	51	23	1.63e-06
Cr50	50	24	3.17e-06
Cr51	51	24	0.00e+00
Cr52	52	24	6.37e-05

Cr53	53	24	7.36e-06
Cr54	54	24	1.88e-06
Mn55	55	25	5.57e-05
Mn56	56	25	0.00e+00
Fe54	54	26	3.05e-04
Fe55	55	26	3.20e-12
Fe56	56	26	4.96e-03
Fe57	57	26	1.17e-04
Fe58	58	26	1.64e-05
Fe59	59	26	0.00e+00
Fe60	60	26	7.15e-09
Co59	59	27	1.47e-05
Co60	60	27	0.00e+00
Ni58	58	28	2.09e-04
Ni59	59	28	3.16e-08
Ni60	60	28	8.36e-05
Ni61	61	28	3.73e-06
Ni62	62	28	1.20e-05
Ni63	63	28	1.85e-11
Ni64	64	28	3.18e-06
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	2.56e-06
Cu64	64	29	0.00e+00
Cu65	65	29	1.18e-06
Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	4.35e-06
Zn65	65	30	0.00e+00
Zn66	66	30	2.59e-06
Zn67	67	30	3.87e-07
Zn68	68	30	1.80e-06
Zn69	69	30	0.00e+00
Zn70	70	30	6.06e-08
Ga69	69	31	1.70e-07
Ga70	70	31	0.00e+00
Ga71	71	31	1.17e-07
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	2.03e-07
Ge71	71	32	0.00e+00

Ge72	72	32	2.71e-07		Sr92	92	38	0.00e+00
Ge73	73	32	7.68e-08		Y89	89	39	5.72e-08
Ge74	74	32	3.65e-07		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	7.54e-08		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	5.11e-08		Zr90	90	40	7.15e-08
As76	76	33	0.00e+00		Zr91	91	40	1.64e-08
As77	77	33	0.00e+00		Zr92	92	40	2.53e-08
Se76	76	34	5.52e-08		Zr93	93	40	1.96e-09
Se77	77	34	4.46e-08		Zr94	94	40	2.77e-08
Se78	78	34	1.44e-07		Zr95	95	40	0.00e+00
Se79	79	34	1.03e-09		Zr96	96	40	4.06e-09
Se80	80	34	3.05e-07		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	7.84e-09
Se82	82	34	5.05e-08		Nb94	94	41	0.00e+00
Br79	79	35	5.06e-08		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	5.16e-08		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	4.26e-09
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	2.72e-09
Kr80	80	36	1.16e-08		Mo95	95	42	5.57e-09
Kr81	81	36	1.21e-10		Mo96	96	42	6.49e-09
Kr82	82	36	6.23e-08		Mo97	97	42	3.41e-09
Kr83	83	36	5.99e-08		Mo98	98	42	9.21e-09
Kr84	84	36	3.01e-07		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	3.08e-09
Kr86	86	36	1.03e-07		Tc97	97	43	0.00e+00
Kr87	87	36	0.00e+00		Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00		Tc99	99	43	2.19e-10
Rb85	85	37	4.71e-08		Ru96	96	44	1.07e-09
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	2.09e-08		Ru98	98	44	3.69e-10
Rb88	88	37	0.00e+00		Ru99	99	44	2.58e-09
Sr86	86	38	2.53e-08		Ru00	100	44	3.43e-09
Sr87	87	38	1.91e-08		Ru01	101	44	3.67e-09
Sr88	88	38	2.38e-07		Ru02	102	44	7.76e-09
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	3.99e-09
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00

Ru06	106	44	0.00e+00		Te23	123	52	8.00e-10
Rh03	103	45	4.37e-09		Te24	124	52	4.37e-09
Rh05	105	45	0.00e+00		Te25	125	52	5.13e-09
Pd04	104	46	2.53e-09		Te26	126	52	1.50e-08
Pd05	105	46	3.97e-09		Te27	127	52	0.00e+00
Pd06	106	46	5.50e-09		Te28	128	52	2.17e-08
Pd07	107	46	1.59e-10		Te30	130	52	2.33e-08
Pd08	108	46	5.65e-09		I127	127	53	1.44e-08
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	2.09e-09		I129	129	53	7.58e-12
Ag07	107	47	3.01e-09		I130	130	53	0.00e+00
Ag09	109	47	3.15e-09		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	1.70e-10		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	2.43e-09
Cd10	110	48	3.26e-09		Xe29	129	54	2.14e-08
Cd11	111	48	2.79e-09		Xe30	130	54	4.93e-09
Cd12	112	48	5.87e-09		Xe31	131	54	1.74e-08
Cd13	113	48	2.75e-09		Xe32	132	54	2.38e-08
Cd14	114	48	7.39e-09		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	7.90e-09
Cd16	116	48	1.69e-09		Xe35	135	54	0.00e+00
In13	113	49	9.77e-11		Xe36	136	54	6.38e-09
In15	115	49	2.55e-09		Cs33	133	55	5.78e-09
Sn14	114	50	3.09e-10		Cs34	134	55	0.00e+00
Sn15	115	50	1.61e-10		Cs35	135	55	2.16e-10
Sn16	116	50	9.13e-09		Cs36	136	55	0.00e+00
Sn17	117	50	4.37e-09		Cs37	137	55	0.00e+00
Sn18	118	50	1.50e-08		Ba34	134	56	2.58e-09
Sn19	119	50	5.18e-09		Ba35	135	56	4.74e-09
Sn20	120	50	2.13e-08		Ba36	136	56	8.25e-09
Sn21	121	50	0.00e+00		Ba37	137	56	1.01e-08
Sn22	122	50	2.56e-09		Ba38	138	56	7.18e-08
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00
Sn24	124	50	2.96e-09		Ba40	140	56	0.00e+00
Sb21	121	51	2.93e-09		La39	139	57	9.24e-09
Sb22	122	51	0.00e+00		La40	140	57	0.00e+00
Sb23	123	51	2.00e-09		Ce40	140	58	2.20e-08
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	2.20e-09
Te22	122	52	2.29e-09		Ce43	143	58	0.00e+00

Ce44	144	58	0.00e+00		Gd54	154	64	1.49e-10
Pr41	141	59	3.30e-09		Gd55	155	64	8.68e-10
Pr42	142	59	0.00e+00		Gd56	156	64	1.25e-09
Pr43	143	59	0.00e+00		Gd57	157	64	9.38e-10
Pr45	145	59	0.00e+00		Gd58	158	64	1.58e-09
Nd42	142	60	4.89e-09		Gd59	159	64	0.00e+00
Nd43	143	60	1.82e-09		Gd60	160	64	1.31e-09
Nd44	144	60	3.82e-09		Tb59	159	65	1.07e-09
Nd45	145	60	1.23e-09		Tb60	160	65	0.00e+00
Nd46	146	60	2.88e-09		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	2.08e-10
Nd48	148	60	8.60e-10		Dy61	161	66	1.34e-09
Nd49	149	60	0.00e+00		Dy62	162	66	1.88e-09
Nd50	150	60	7.77e-10		Dy63	163	66	1.78e-09
Pm45	145	61	0.00e+00		Dy64	164	66	2.14e-09
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	2.21e-12
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	1.67e-09
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	1.26e-10		Er64	164	68	9.37e-11
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	1.66e-09
Sm47	147	62	6.96e-10		Er67	167	68	1.12e-09
Sm48	148	62	6.20e-10		Er68	168	68	1.41e-09
Sm49	149	62	6.14e-10		Er69	169	68	0.00e+00
Sm50	150	62	4.32e-10		Er70	170	68	7.73e-10
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	1.26e-09		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	7.22e-10
Sm54	154	62	1.03e-09		Tm70	170	69	0.00e+00
Eu51	151	63	7.80e-10		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00
Eu53	153	63	8.65e-10		Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00		Yb70	170	70	1.80e-10
Eu55	155	63	0.00e+00		Yb71	171	70	7.38e-10
Eu56	156	63	0.00e+00		Yb72	172	70	1.18e-09
Eu57	157	63	0.00e+00		Yb73	173	70	8.42e-10
Gd52	152	64	1.32e-11		Yb74	174	70	1.84e-09
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00

Yb76	176	70	6.67e-10
Yb77	177	70	0.00e+00
Lu75	175	71	7.12e-10
Lu76	176	71	2.49e-11
Lu77	177	71	0.00e+00
Hf76	176	72	2.27e-10
Hf77	177	72	6.53e-10
Hf78	178	72	1.06e-09
Hf79	179	72	5.11e-10
Hf80	180	72	1.47e-09
Hf81	181	72	0.00e+00
Hf82	182	72	1.40e-11
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00
Ta81	181	73	4.78e-10
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	3.08e-12
W181	181	74	0.00e+00
W182	182	74	7.95e-10
W183	183	74	4.49e-10
W184	184	74	9.96e-10
W185	185	74	0.00e+00
W186	186	74	8.43e-10
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	4.42e-10
Re86	186	75	0.00e+00
Re87	187	75	6.73e-10
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	2.84e-10
Os87	187	76	2.79e-10
Os88	188	76	2.02e-09
Os89	189	76	2.33e-09
Os90	190	76	3.91e-09
Os91	191	76	0.00e+00
Os92	192	76	5.96e-09

Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	5.12e-09
Ir92	192	77	0.00e+00
Ir93	193	77	8.70e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	2.68e-10
Pt93	193	78	0.00e+00
Pt94	194	78	9.73e-09
Pt95	195	78	9.93e-09
Pt96	196	78	7.62e-09
Pt97	197	78	0.00e+00
Pt98	198	78	2.14e-09
Au97	197	79	4.32e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.12e-09
Hg99	199	80	1.65e-09
Hg00	200	80	2.45e-09
Hg01	201	80	1.36e-09
Hg02	202	80	3.31e-09
Hg03	203	80	0.00e+00
Hg04	204	80	6.55e-10
Tl03	203	81	1.47e-09
Tl04	204	81	0.00e+00
Tl05	205	81	3.35e-09
Pb04	204	82	1.73e-09
Pb05	205	82	1.65e-11
Pb06	206	82	1.55e-08
Pb07	207	82	1.67e-08
Pb08	208	82	4.65e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	3.22e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M_o = 5.00; Z = 0.020000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	2.76e+00
He4	4	2	1.30e+00
C12	12	6	8.58e-03
C13	13	6	4.02e-04
C14	14	6	4.31e-08
N14	14	7	1.43e-02
N15	15	7	7.54e-06
O16	16	8	3.27e-02
O17	17	8	9.48e-05
O18	18	8	5.18e-05
F18	18	9	0.00e+00
F19	19	9	2.33e-06
Ne20	20	10	6.42e-03
Ne21	21	10	2.29e-05
Ne22	22	10	5.12e-04
Na22	22	11	0.00e+00
Na23	23	11	3.10e-04
Na24	24	11	0.00e+00
Mg24	24	12	3.21e-03
Mg25	25	12	4.01e-04
Mg26	26	12	5.10e-04
Al26	26	13	4.04e-07
Al27	27	13	3.64e-04
Si28	28	14	4.17e-03
Si29	29	14	2.20e-04
Si30	30	14	1.50e-04
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	3.90e-05
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	2.20e-03
S33	33	16	1.79e-05
S34	34	16	1.04e-04
S35	35	16	0.00e+00
S36	36	16	4.45e-07
Cl35	35	17	2.25e-05
Cl36	36	17	1.07e-09

Isotope	A	Z	YIELD [$M_\odot$]
Cl37	37	17	7.64e-06
Ar36	36	18	5.04e-04
Ar37	37	18	0.00e+00
Ar38	38	18	9.67e-05
Ar39	39	18	1.13e-11
Ar40	40	18	1.68e-07
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	2.09e-05
K40	40	19	2.70e-08
K41	41	19	1.59e-06
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	3.78e-04
Ca41	41	20	3.06e-09
Ca42	42	20	2.65e-06
Ca43	43	20	5.66e-07
Ca44	44	20	8.94e-06
Ca45	45	20	0.00e+00
Ca46	46	20	1.80e-08
Ca47	47	20	0.00e+00
Ca48	48	20	8.74e-07
Sc45	45	21	2.47e-07
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	1.47e-06
Ti47	47	22	1.35e-06
Ti48	48	22	1.37e-05
Ti49	49	22	1.03e-06
Ti50	50	22	1.01e-06
V50	50	23	5.82e-09
V51	51	23	2.37e-06
Cr50	50	24	4.63e-06
Cr51	51	24	0.00e+00
Cr52	52	24	9.28e-05
Cr53	53	24	1.07e-05
Cr54	54	24	2.73e-06
Mn55	55	25	8.11e-05
Mn56	56	25	0.00e+00

Fe54	54	26	4.44e-04		Ge76	76	32	1.10e-07
Fe55	55	26	2.57e-12		Ge77	77	32	0.00e+00
Fe56	56	26	7.23e-03		As75	75	33	7.43e-08
Fe57	57	26	1.70e-04		As76	76	33	0.00e+00
Fe58	58	26	2.34e-05		As77	77	33	0.00e+00
Fe59	59	26	0.00e+00		Se76	76	34	8.00e-08
Fe60	60	26	1.30e-09		Se77	77	34	6.47e-08
Co59	59	27	2.14e-05		Se78	78	34	2.09e-07
Co60	60	27	0.00e+00		Se79	79	34	1.20e-09
Ni58	58	28	3.05e-04		Se80	80	34	4.43e-07
Ni59	59	28	3.22e-08		Se81	81	34	0.00e+00
Ni60	60	28	1.22e-04		Se82	82	34	7.36e-08
Ni61	61	28	5.41e-06		Br79	79	35	7.38e-08
Ni62	62	28	1.75e-05		Br80	80	35	0.00e+00
Ni63	63	28	7.18e-12		Br81	81	35	7.49e-08
Ni64	64	28	4.62e-06		Br82	82	35	0.00e+00
Ni65	65	28	0.00e+00		Br83	83	35	0.00e+00
Ni66	66	28	0.00e+00		Br84	84	35	0.00e+00
Cu63	63	29	3.71e-06		Kr80	80	36	1.70e-08
Cu64	64	29	0.00e+00		Kr81	81	36	2.32e-10
Cu65	65	29	1.72e-06		Kr82	82	36	9.03e-08
Cu66	66	29	0.00e+00		Kr83	83	36	8.70e-08
Cu67	67	29	0.00e+00		Kr84	84	36	4.36e-07
Zn64	64	30	6.34e-06		Kr85	85	36	0.00e+00
Zn65	65	30	0.00e+00		Kr86	86	36	1.40e-07
Zn66	66	30	3.76e-06		Kr87	87	36	0.00e+00
Zn67	67	30	5.63e-07		Kr88	88	36	0.00e+00
Zn68	68	30	2.61e-06		Rb85	85	37	6.77e-08
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	8.83e-08		Rb87	87	37	2.78e-08
Ga69	69	31	2.47e-07		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	3.69e-08
Ga71	71	31	1.70e-07		Sr87	87	38	2.78e-08
Ga72	72	31	0.00e+00		Sr88	88	38	3.30e-07
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	2.95e-07		Sr90	90	38	0.00e+00
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	3.94e-07		Sr92	92	38	0.00e+00
Ge73	73	32	1.11e-07		Y89	89	39	7.80e-08
Ge74	74	32	5.29e-07		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00

Y92	92	39	0.00e+00
Y93	93	39	0.00e+00
Zr90	90	40	9.83e-08
Zr91	91	40	2.21e-08
Zr92	92	40	3.39e-08
Zr93	93	40	1.71e-09
Zr94	94	40	3.63e-08
Zr95	95	40	0.00e+00
Zr96	96	40	5.20e-09
Zr97	97	40	0.00e+00
Nb93	93	41	1.14e-08
Nb94	94	41	0.00e+00
Nb95	95	41	0.00e+00
Nb96	96	41	0.00e+00
Nb97	97	41	0.00e+00
Mo92	92	42	6.21e-09
Mo93	93	42	0.00e+00
Mo94	94	42	3.96e-09
Mo95	95	42	7.56e-09
Mo96	96	42	8.57e-09
Mo97	97	42	4.66e-09
Mo98	98	42	1.23e-08
Mo99	99	42	0.00e+00
Mo00	100	42	4.42e-09
Tc97	97	43	0.00e+00
Tc98	98	43	0.00e+00
Tc99	99	43	1.86e-10
Ru96	96	44	1.56e-09
Ru97	97	44	0.00e+00
Ru98	98	44	5.38e-10
Ru99	99	44	3.74e-09
Ru00	100	44	4.46e-09
Ru01	101	44	5.23e-09
Ru02	102	44	1.05e-08
Ru03	103	44	0.00e+00
Ru04	104	44	5.73e-09
Ru05	105	44	0.00e+00
Ru06	106	44	0.00e+00
Rh03	103	45	6.23e-09
Rh05	105	45	0.00e+00
Pd04	104	46	3.28e-09

Pd05	105	46	5.67e-09
Pd06	106	46	7.48e-09
Pd07	107	46	1.28e-10
Pd08	108	46	7.55e-09
Pd09	109	46	0.00e+00
Pd10	110	46	2.97e-09
Ag07	107	47	4.39e-09
Ag09	109	47	4.39e-09
Ag11	111	47	0.00e+00
Cd08	108	48	2.47e-10
Cd09	109	48	0.00e+00
Cd10	110	48	4.19e-09
Cd11	111	48	3.86e-09
Cd12	112	48	7.77e-09
Cd13	113	48	3.78e-09
Cd14	114	48	9.60e-09
Cd15	115	48	0.00e+00
Cd16	116	48	2.28e-09
In13	113	49	1.42e-10
In15	115	49	3.48e-09
Sn14	114	50	4.51e-10
Sn15	115	50	2.34e-10
Sn16	116	50	1.17e-08
Sn17	117	50	5.87e-09
Sn18	118	50	1.93e-08
Sn19	119	50	6.78e-09
Sn20	120	50	2.67e-08
Sn21	121	50	0.00e+00
Sn22	122	50	3.44e-09
Sn23	123	50	0.00e+00
Sn24	124	50	4.31e-09
Sb21	121	51	3.94e-09
Sb22	122	51	0.00e+00
Sb23	123	51	2.84e-09
Sb24	124	51	0.00e+00
Sb25	125	51	0.00e+00
Te22	122	52	2.84e-09
Te23	123	52	9.97e-10
Te24	124	52	5.37e-09
Te25	125	52	7.15e-09
Te26	126	52	1.99e-08

Te27	127	52	0.00e+00
Te28	128	52	3.15e-08
Te30	130	52	3.40e-08
I127	127	53	2.07e-08
I128	128	53	0.00e+00
I129	129	53	4.48e-12
I130	130	53	0.00e+00
I131	131	53	0.00e+00
I132	132	53	0.00e+00
I133	133	53	0.00e+00
Xe28	128	54	2.91e-09
Xe29	129	54	3.09e-08
Xe30	130	54	5.84e-09
Xe31	131	54	2.50e-08
Xe32	132	54	3.18e-08
Xe33	133	54	0.00e+00
Xe34	134	54	1.13e-08
Xe35	135	54	0.00e+00
Xe36	136	54	9.29e-09
Cs33	133	55	8.03e-09
Cs34	134	55	0.00e+00
Cs35	135	55	8.05e-11
Cs36	136	55	0.00e+00
Cs37	137	55	0.00e+00
Ba34	134	56	2.88e-09
Ba35	135	56	6.61e-09
Ba36	136	56	9.21e-09
Ba37	137	56	1.22e-08
Ba38	138	56	7.92e-08
Ba39	139	56	0.00e+00
Ba40	140	56	0.00e+00
La39	139	57	1.06e-08
La40	140	57	0.00e+00
Ce40	140	58	2.52e-08
Ce41	141	58	0.00e+00
Ce42	142	58	3.01e-09
Ce43	143	58	0.00e+00
Ce44	144	58	0.00e+00
Pr41	141	59	4.11e-09
Pr42	142	59	0.00e+00
Pr43	143	59	0.00e+00

Pr45	145	59	0.00e+00
Nd42	142	60	5.56e-09
Nd43	143	60	2.40e-09
Nd44	144	60	4.78e-09
Nd45	145	60	1.65e-09
Nd46	146	60	3.51e-09
Nd47	147	60	0.00e+00
Nd48	148	60	1.15e-09
Nd49	149	60	0.00e+00
Nd50	150	60	1.13e-09
Pm45	145	61	0.00e+00
Pm46	146	61	0.00e+00
Pm47	147	61	0.00e+00
Pm48	148	61	0.00e+00
Pm49	149	61	0.00e+00
Pm50	150	61	0.00e+00
Pm51	151	61	0.00e+00
Sm44	144	62	1.84e-10
Sm45	145	62	0.00e+00
Sm46	146	62	0.00e+00
Sm47	147	62	9.33e-10
Sm48	148	62	7.32e-10
Sm49	149	62	8.62e-10
Sm50	150	62	4.89e-10
Sm51	151	62	0.00e+00
Sm52	152	62	1.71e-09
Sm53	153	62	0.00e+00
Sm54	154	62	1.46e-09
Eu51	151	63	1.12e-09
Eu52	152	63	0.00e+00
Eu53	153	63	1.24e-09
Eu54	154	63	0.00e+00
Eu55	155	63	0.00e+00
Eu56	156	63	0.00e+00
Eu57	157	63	0.00e+00
Gd52	152	64	1.68e-11
Gd53	153	64	0.00e+00
Gd54	154	64	1.86e-10
Gd55	155	64	1.23e-09
Gd56	156	64	1.73e-09
Gd57	157	64	1.32e-09

Gd58	158	64	2.13e-09
Gd59	159	64	0.00e+00
Gd60	160	64	1.88e-09
Tb59	159	65	1.52e-09
Tb60	160	65	0.00e+00
Tb61	161	65	0.00e+00
Dy60	160	66	2.47e-10
Dy61	161	66	1.92e-09
Dy62	162	66	2.62e-09
Dy63	163	66	2.56e-09
Dy64	164	66	2.95e-09
Dy65	165	66	0.00e+00
Dy66	166	66	0.00e+00
Ho63	163	67	5.50e-13
Ho64	164	67	0.00e+00
Ho65	165	67	2.39e-09
Ho66	166	67	0.00e+00
Er64	164	68	1.14e-10
Er65	165	68	0.00e+00
Er66	166	68	2.34e-09
Er67	167	68	1.60e-09
Er68	168	68	1.91e-09
Er69	169	68	0.00e+00
Er70	170	68	1.06e-09
Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	1.02e-09
Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00
Tm73	173	69	0.00e+00
Yb70	170	70	2.20e-10
Yb71	171	70	1.01e-09
Yb72	172	70	1.56e-09
Yb73	173	70	1.15e-09
Yb74	174	70	2.33e-09
Yb75	175	70	0.00e+00
Yb76	176	70	9.18e-10
Yb77	177	70	0.00e+00
Lu75	175	71	9.88e-10
Lu76	176	71	2.77e-11

Lu77	177	71	0.00e+00
Hf76	176	72	2.68e-10
Hf77	177	72	9.12e-10
Hf78	178	72	1.37e-09
Hf79	179	72	6.82e-10
Hf80	180	72	1.80e-09
Hf81	181	72	0.00e+00
Hf82	182	72	2.09e-12
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00
Ta81	181	73	6.26e-10
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	4.49e-12
W181	181	74	0.00e+00
W182	182	74	1.03e-09
W183	183	74	5.65e-10
W184	184	74	1.22e-09
W185	185	74	0.00e+00
W186	186	74	1.12e-09
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	5.97e-10
Re86	186	75	0.00e+00
Re87	187	75	9.44e-10
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	3.40e-10
Os87	187	76	3.94e-10
Os88	188	76	2.76e-09
Os89	189	76	3.35e-09
Os90	190	76	5.51e-09
Os91	191	76	0.00e+00
Os92	192	76	8.60e-09
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	7.43e-09
Ir92	192	77	0.00e+00

Isotope	A	Z	YIELD
Ir93	193	77	1.26e-08
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	3.39e-10
Pt93	193	78	0.00e+00
Pt94	194	78	1.40e-08
Pt95	195	78	1.44e-08
Pt96	196	78	1.09e-08
Pt97	197	78	0.00e+00
Pt98	198	78	3.10e-09
Au97	197	79	6.23e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.39e-09
Hg99	199	80	2.29e-09
Hg00	200	80	3.20e-09
Hg01	201	80	1.82e-09
Hg02	202	80	4.20e-09
Hg03	203	80	0.00e+00
Hg04	204	80	9.45e-10
Tl03	203	81	1.86e-09
Tl04	204	81	0.00e+00
Tl05	205	81	4.45e-09
Pb04	204	82	2.19e-09
Pb05	205	82	3.22e-12
Pb06	206	82	2.07e-08
Pb07	207	82	2.27e-08
Pb08	208	82	6.45e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	4.67e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M_α = 6.00; Z = 0.000100 [α/Fe]=0.5; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [M_α]

Isotope	A	Z	YIELD
H	1	1	3.65e+00
He4	4	2	1.91e+00
C12	12	6	3.85e-03
C13	13	6	2.45e-04
C14	14	6	6.40e-09
N14	14	7	1.44e-03
N15	15	7	4.03e-08
O16	16	8	7.94e-04
O17	17	8	6.86e-06
O18	18	8	3.15e-07
F18	18	9	0.00e+00
F19	19	9	1.15e-08
Ne20	20	10	1.31e-04
Ne21	21	10	4.02e-07
Ne22	22	10	2.12e-05
Na22	22	11	5.50e-12
Na23	23	11	1.37e-05
Na24	24	11	0.00e+00
Mg24	24	12	7.45e-05
Mg25	25	12	7.89e-06
Mg26	26	12	1.25e-05
Al26	26	13	2.28e-07
Al27	27	13	3.63e-06
Si28	28	14	9.16e-05
Si29	29	14	1.66e-06
Si30	30	14	1.34e-06
Si31	31	14	0.00e+00
Si32	32	14	9.30e-12
P31	31	15	3.93e-07
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	4.77e-05
S33	33	16	1.27e-07
S34	34	16	7.46e-07
S35	35	16	0.00e+00
S36	36	16	5.23e-09
Cl35	35	17	1.55e-07
Cl36	36	17	1.41e-10
Cl37	37	17	6.22e-08
Ar36	36	18	1.09e-05
Ar37	37	18	0.00e+00

Ar38	38	18	6.73e-07		Fe57	57	26	1.19e-06
Ar39	39	18	1.98e-11		Fe58	58	26	1.80e-07
Ar40	40	18	5.07e-09		Fe59	59	26	0.00e+00
Ar41	41	18	0.00e+00		Fe60	60	26	2.93e-08
Ar42	42	18	0.00e+00		Co59	59	27	1.56e-07
K39	39	19	1.46e-07		Co60	60	27	0.00e+00
K40	40	19	3.10e-10		Ni58	58	28	2.09e-06
K41	41	19	1.27e-08		Ni59	59	28	1.52e-09
K42	42	19	0.00e+00		Ni60	60	28	8.38e-07
K43	43	19	0.00e+00		Ni61	61	28	4.25e-08
Ca40	40	20	8.20e-06		Ni62	62	28	1.33e-07
Ca41	41	20	1.28e-09		Ni63	63	28	1.68e-11
Ca42	42	20	1.91e-08		Ni64	64	28	5.62e-08
Ca43	43	20	4.13e-09		Ni65	65	28	0.00e+00
Ca44	44	20	6.26e-08		Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00		Cu63	63	29	3.52e-08
Ca46	46	20	1.22e-09		Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00		Cu65	65	29	1.80e-08
Ca48	48	20	6.08e-09		Cu66	66	29	0.00e+00
Sc45	45	21	2.14e-09		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	4.34e-08
Sc47	47	21	0.00e+00		Zn65	65	30	0.00e+00
Sc48	48	21	0.00e+00		Zn66	66	30	3.04e-08
Sc49	49	21	0.00e+00		Zn67	67	30	4.92e-09
Ti46	46	22	1.02e-08		Zn68	68	30	2.50e-08
Ti47	47	22	9.45e-09		Zn69	69	30	0.00e+00
Ti48	48	22	9.43e-08		Zn70	70	30	7.00e-10
Ti49	49	22	7.58e-09		Ga69	69	31	2.71e-09
Ti50	50	22	8.00e-09		Ga70	70	31	0.00e+00
V50	50	23	3.97e-11		Ga71	71	31	1.72e-09
V51	51	23	1.64e-08		Ga72	72	31	0.00e+00
Cr50	50	24	3.16e-08		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	3.52e-09
Cr52	52	24	6.37e-07		Ge71	71	32	0.00e+00
Cr53	53	24	7.32e-08		Ge72	72	32	4.43e-09
Cr54	54	24	2.01e-08		Ge73	73	32	1.28e-09
Mn55	55	25	5.64e-07		Ge74	74	32	6.77e-09
Mn56	56	25	0.00e+00		Ge75	75	32	0.00e+00
Fe54	54	26	3.04e-06		Ge76	76	32	9.19e-10
Fe55	55	26	0.00e+00		Ge77	77	32	0.00e+00
Fe56	56	26	4.96e-05		As75	75	33	8.35e-10

As76	76	33	0.00e+00		Zr91	91	40	4.73e-10
As77	77	33	0.00e+00		Zr92	92	40	7.52e-10
Se76	76	34	1.27e-09		Zr93	93	40	2.19e-10
Se77	77	34	7.33e-10		Zr94	94	40	8.75e-10
Se78	78	34	3.34e-09		Zr95	95	40	0.00e+00
Se79	79	34	3.95e-10		Zr96	96	40	5.26e-10
Se80	80	34	5.49e-09		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	7.90e-11
Se82	82	34	7.58e-10		Nb94	94	41	0.00e+00
Br79	79	35	5.31e-10		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	9.51e-10		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	4.23e-11
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	2.86e-11
Kr80	80	36	1.41e-10		Mo95	95	42	1.82e-10
Kr81	81	36	7.97e-12		Mo96	96	42	1.42e-10
Kr82	82	36	1.65e-09		Mo97	97	42	1.02e-10
Kr83	83	36	9.97e-10		Mo98	98	42	2.91e-10
Kr84	84	36	5.82e-09		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	6.74e-11
Kr86	86	36	6.93e-09		Tc97	97	43	0.00e+00
Kr87	87	36	0.00e+00		Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00		Tc99	99	43	3.38e-11
Rb85	85	37	1.53e-09		Ru96	96	44	1.06e-11
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	3.16e-09		Ru98	98	44	3.69e-12
Rb88	88	37	0.00e+00		Ru99	99	44	2.76e-11
Sr86	86	38	5.81e-10		Ru00	100	44	1.15e-10
Sr87	87	38	3.09e-10		Ru01	101	44	5.63e-11
Sr88	88	38	7.50e-09		Ru02	102	44	2.06e-10
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	3.18e-13		Ru04	104	44	7.48e-11
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	1.95e-09		Rh03	103	45	6.96e-11
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	7.76e-11
Y92	92	39	0.00e+00		Pd05	105	46	5.73e-11
Y93	93	39	0.00e+00		Pd06	106	46	1.38e-10
Zr90	90	40	1.63e-09		Pd07	107	46	1.73e-11

Pd08	108	46	1.52e-10
Pd09	109	46	0.00e+00
Pd10	110	46	5.23e-11
Ag07	107	47	2.92e-11
Ag09	109	47	6.00e-11
Ag11	111	47	0.00e+00
Cd08	108	48	2.59e-12
Cd09	109	48	0.00e+00
Cd10	110	48	9.61e-11
Cd11	111	48	5.40e-11
Cd12	112	48	1.60e-10
Cd13	113	48	5.60e-11
Cd14	114	48	2.16e-10
Cd15	115	48	0.00e+00
Cd16	116	48	9.71e-11
In13	113	49	9.73e-13
In15	115	49	5.90e-11
Sn14	114	50	3.12e-12
Sn15	115	50	1.61e-12
Sn16	116	50	2.25e-10
Sn17	117	50	1.00e-10
Sn18	118	50	4.17e-10
Sn19	119	50	1.31e-10
Sn20	120	50	6.16e-10
Sn21	121	50	0.00e+00
Sn22	122	50	2.84e-10
Sn23	123	50	0.00e+00
Sn24	124	50	1.15e-10
Sb21	121	51	6.74e-11
Sb22	122	51	0.00e+00
Sb23	123	51	4.92e-11
Sb24	124	51	0.00e+00
Sb25	125	51	0.00e+00
Te22	122	52	5.79e-11
Te23	123	52	1.88e-11
Te24	124	52	1.47e-10
Te25	125	52	8.79e-11
Te26	126	52	3.38e-10
Te27	127	52	0.00e+00
Te28	128	52	2.60e-10
Te30	130	52	2.33e-10

I127	127	53	1.68e-10
I128	128	53	0.00e+00
I129	129	53	2.59e-12
I130	130	53	0.00e+00
I131	131	53	0.00e+00
I132	132	53	0.00e+00
I133	133	53	0.00e+00
Xe28	128	54	8.05e-11
Xe29	129	54	2.31e-10
Xe30	130	54	1.64e-10
Xe31	131	54	2.04e-10
Xe32	132	54	4.40e-10
Xe33	133	54	0.00e+00
Xe34	134	54	2.64e-10
Xe35	135	54	0.00e+00
Xe36	136	54	2.54e-10
Cs33	133	55	9.36e-11
Cs34	134	55	0.00e+00
Cs35	135	55	4.90e-11
Cs36	136	55	0.00e+00
Cs37	137	55	2.46e-13
Ba34	134	56	6.65e-11
Ba35	135	56	5.73e-11
Ba36	136	56	2.17e-10
Ba37	137	56	5.71e-10
Ba38	138	56	1.56e-09
Ba39	139	56	0.00e+00
Ba40	140	56	0.00e+00
La39	139	57	1.79e-10
La40	140	57	0.00e+00
Ce40	140	58	3.05e-10
Ce41	141	58	0.00e+00
Ce42	142	58	6.69e-11
Ce43	143	58	0.00e+00
Ce44	144	58	0.00e+00
Pr41	141	59	4.95e-11
Pr42	142	59	0.00e+00
Pr43	143	59	0.00e+00
Pr45	145	59	0.00e+00
Nd42	142	60	5.39e-11
Nd43	143	60	2.52e-11

Nd44	144	60	6.77e-11
Nd45	145	60	1.72e-11
Nd46	146	60	5.22e-11
Nd47	147	60	0.00e+00
Nd48	148	60	1.79e-11
Nd49	149	60	0.00e+00
Nd50	150	60	8.36e-12
Pm45	145	61	0.00e+00
Pm46	146	61	0.00e+00
Pm47	147	61	0.00e+00
Pm48	148	61	0.00e+00
Pm49	149	61	0.00e+00
Pm50	150	61	0.00e+00
Pm51	151	61	0.00e+00
Sm44	144	62	1.25e-12
Sm45	145	62	0.00e+00
Sm46	146	62	0.00e+00
Sm47	147	62	1.02e-11
Sm48	148	62	8.56e-12
Sm49	149	62	7.68e-12
Sm50	150	62	8.92e-12
Sm51	151	62	0.00e+00
Sm52	152	62	1.70e-11
Sm53	153	62	0.00e+00
Sm54	154	62	1.49e-11
Eu51	151	63	8.31e-12
Eu52	152	63	0.00e+00
Eu53	153	63	9.50e-12
Eu54	154	63	0.00e+00
Eu55	155	63	0.00e+00
Eu56	156	63	0.00e+00
Eu57	157	63	0.00e+00
Gd52	152	64	3.77e-13
Gd53	153	64	0.00e+00
Gd54	154	64	2.48e-12
Gd55	155	64	1.02e-11
Gd56	156	64	1.63e-11
Gd57	157	64	1.11e-11
Gd58	158	64	2.30e-11
Gd59	159	64	0.00e+00
Gd60	160	64	1.71e-11

Tb59	159	65	1.24e-11
Tb60	160	65	0.00e+00
Tb61	161	65	0.00e+00
Dy60	160	66	4.08e-12
Dy61	161	66	1.46e-11
Dy62	162	66	2.45e-11
Dy63	163	66	1.90e-11
Dy64	164	66	3.12e-11
Dy65	165	66	0.00e+00
Dy66	166	66	0.00e+00
Ho63	163	67	3.93e-13
Ho64	164	67	0.00e+00
Ho65	165	67	1.85e-11
Ho66	166	67	0.00e+00
Er64	164	68	1.48e-12
Er65	165	68	0.00e+00
Er66	166	68	1.93e-11
Er67	167	68	1.29e-11
Er68	168	68	2.13e-11
Er69	169	68	0.00e+00
Er70	170	68	1.49e-11
Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	9.39e-12
Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00
Tm73	173	69	0.00e+00
Yb70	170	70	3.08e-12
Yb71	171	70	1.16e-11
Yb72	172	70	1.75e-11
Yb73	173	70	1.20e-11
Yb74	174	70	3.46e-11
Yb75	175	70	0.00e+00
Yb76	176	70	1.46e-11
Yb77	177	70	0.00e+00
Lu75	175	71	9.68e-12
Lu76	176	71	5.96e-13
Lu77	177	71	0.00e+00
Hf76	176	72	4.69e-12
Hf77	177	72	8.69e-12

Isotope	A	Z	Yield
Hf78	178	72	1.94e-11
Hf79	179	72	8.20e-12
Hf80	180	72	3.15e-11
Hf81	181	72	0.00e+00
Hf82	182	72	3.62e-12
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00
Ta81	181	73	9.43e-12
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	0.00e+00
W181	181	74	0.00e+00
W182	182	74	1.16e-11
W183	183	74	9.49e-12
W184	184	74	2.06e-11
W185	185	74	0.00e+00
W186	186	74	1.79e-11
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	7.79e-12
Re86	186	75	0.00e+00
Re87	187	75	9.31e-12
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	4.02e-12
Os87	187	76	3.06e-12
Os88	188	76	3.17e-11
Os89	189	76	2.49e-11
Os90	190	76	5.08e-11
Os91	191	76	0.00e+00
Os92	192	76	7.09e-11
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	5.14e-11
Ir92	192	77	0.00e+00
Ir93	193	77	8.81e-11
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00

Isotope	A	Z	Yield
Pt92	192	78	5.85e-12
Pt93	193	78	0.00e+00
Pt94	194	78	1.17e-10
Pt95	195	78	1.03e-10
Pt96	196	78	9.77e-11
Pt97	197	78	0.00e+00
Pt98	198	78	2.69e-11
Au97	197	79	4.89e-11
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	2.59e-11
Hg99	199	80	2.53e-11
Hg00	200	80	5.15e-11
Hg01	201	80	2.54e-11
Hg02	202	80	7.64e-11
Hg03	203	80	0.00e+00
Hg04	204	80	1.16e-11
Tl03	203	81	3.58e-11
Tl04	204	81	0.00e+00
Tl05	205	81	5.28e-11
Pb04	204	82	3.72e-11
Pb05	205	82	1.08e-11
Pb06	206	82	3.13e-10
Pb07	207	82	3.10e-10
Pb08	208	82	1.75e-09
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	7.49e-11
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_{\odot}$ = 6.00; Z = 0.000300 [α/Fe]=0.5; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_{\odot}$]
H	1	1	3.24e+00
He4	4	2	1.69e+00
C12	12	6	4.90e-03

C13	13	6	1.93e-04
C14	14	6	5.06e-10
N14	14	7	1.32e-03
N15	15	7	7.29e-08
O16	16	8	1.87e-03
O17	17	8	1.46e-05
O18	18	8	6.62e-07
F18	18	9	0.00e+00
F19	19	9	3.53e-08
Ne20	20	10	3.41e-04
Ne21	21	10	7.55e-07
Ne22	22	10	3.05e-05
Na22	22	11	4.04e-12
Na23	23	11	3.54e-05
Na24	24	11	0.00e+00
Mg24	24	12	1.82e-04
Mg25	25	12	1.34e-05
Mg26	26	12	2.48e-05
Al26	26	13	3.57e-08
Al27	27	13	7.98e-06
Si28	28	14	2.38e-04
Si29	29	14	4.33e-06
Si30	30	14	3.43e-06
Si31	31	14	0.00e+00
Si32	32	14	2.91e-11
P31	31	15	9.39e-07
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	1.24e-04
S33	33	16	3.29e-07
S34	34	16	1.94e-06
S35	35	16	0.00e+00
S36	36	16	1.25e-08
Cl35	35	17	4.02e-07
Cl36	36	17	3.28e-10
Cl37	37	17	1.59e-07
Ar36	36	18	2.83e-05
Ar37	37	18	0.00e+00
Ar38	38	18	1.75e-06
Ar39	39	18	7.77e-11
Ar40	40	18	1.32e-08

Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	3.80e-07
K40	40	19	7.82e-10
K41	41	19	3.29e-08
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	2.13e-05
Ca41	41	20	2.89e-09
Ca42	42	20	4.98e-08
Ca43	43	20	1.08e-08
Ca44	44	20	1.63e-07
Ca45	45	20	0.00e+00
Ca46	46	20	3.04e-09
Ca47	47	20	0.00e+00
Ca48	48	20	1.57e-08
Sc45	45	21	5.64e-09
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	2.67e-08
Ti47	47	22	2.45e-08
Ti48	48	22	2.45e-07
Ti49	49	22	1.95e-08
Ti50	50	22	2.03e-08
V50	50	23	1.03e-10
V51	51	23	4.26e-08
Cr50	50	24	8.19e-08
Cr51	51	24	0.00e+00
Cr52	52	24	1.65e-06
Cr53	53	24	1.90e-07
Cr54	54	24	5.23e-08
Mn55	55	25	1.46e-06
Mn56	56	25	0.00e+00
Fe54	54	26	7.88e-06
Fe55	55	26	0.00e+00
Fe56	56	26	1.29e-04
Fe57	57	26	3.07e-06
Fe58	58	26	4.92e-07
Fe59	59	26	0.00e+00

Fe60	60	26	9.99e-08		Se77	77	34	1.82e-09
Co59	59	27	4.16e-07		Se78	78	34	8.11e-09
Co60	60	27	2.59e-13		Se79	79	34	8.80e-10
Ni58	58	28	5.43e-06		Se80	80	34	1.34e-08
Ni59	59	28	3.19e-09		Se81	81	34	0.00e+00
Ni60	60	28	2.18e-06		Se82	82	34	1.91e-09
Ni61	61	28	1.14e-07		Br79	79	35	1.39e-09
Ni62	62	28	3.56e-07		Br80	80	35	0.00e+00
Ni63	63	28	1.13e-10		Br81	81	35	2.32e-09
Ni64	64	28	1.51e-07		Br82	82	35	0.00e+00
Ni65	65	28	0.00e+00		Br83	83	35	0.00e+00
Ni66	66	28	0.00e+00		Br84	84	35	0.00e+00
Cu63	63	29	9.66e-08		Kr80	80	36	3.72e-10
Cu64	64	29	0.00e+00		Kr81	81	36	2.22e-11
Cu65	65	29	4.71e-08		Kr82	82	36	3.93e-09
Cu66	66	29	0.00e+00		Kr83	83	36	2.44e-09
Cu67	67	29	0.00e+00		Kr84	84	36	1.39e-08
Zn64	64	30	1.13e-07		Kr85	85	36	3.23e-13
Zn65	65	30	0.00e+00		Kr86	86	36	1.34e-08
Zn66	66	30	7.89e-08		Kr87	87	36	0.00e+00
Zn67	67	30	1.27e-08		Kr88	88	36	0.00e+00
Zn68	68	30	6.40e-08		Rb85	85	37	3.45e-09
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	1.83e-09		Rb87	87	37	5.95e-09
Ga69	69	31	6.88e-09		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	1.39e-09
Ga71	71	31	4.39e-09		Sr87	87	38	7.54e-10
Ga72	72	31	0.00e+00		Sr88	88	38	1.44e-08
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	8.89e-09		Sr90	90	38	2.29e-12
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	1.12e-08		Sr92	92	38	0.00e+00
Ge73	73	32	3.23e-09		Y89	89	39	3.60e-09
Ge74	74	32	1.68e-08		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	2.37e-09		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	2.08e-09		Zr90	90	40	3.20e-09
As76	76	33	0.00e+00		Zr91	91	40	8.74e-10
As77	77	33	0.00e+00		Zr92	92	40	1.36e-09
Se76	76	34	3.10e-09		Zr93	93	40	3.29e-10

Zr94	94	40	1.51e-09
Zr95	95	40	0.00e+00
Zr96	96	40	7.48e-10
Zr97	97	40	0.00e+00
Nb93	93	41	2.03e-10
Nb94	94	41	0.00e+00
Nb95	95	41	0.00e+00
Nb96	96	41	0.00e+00
Nb97	97	41	0.00e+00
Mo92	92	42	1.10e-10
Mo93	93	42	0.00e+00
Mo94	94	42	7.36e-11
Mo95	95	42	3.00e-10
Mo96	96	42	2.85e-10
Mo97	97	42	1.80e-10
Mo98	98	42	5.10e-10
Mo99	99	42	0.00e+00
Mo00	100	42	1.23e-10
Tc97	97	43	1.90e-13
Tc98	98	43	0.00e+00
Tc99	99	43	4.61e-11
Ru96	96	44	2.75e-11
Ru97	97	44	0.00e+00
Ru98	98	44	9.57e-12
Ru99	99	44	6.90e-11
Ru00	100	44	2.00e-10
Ru01	101	44	1.21e-10
Ru02	102	44	3.72e-10
Ru03	103	44	0.00e+00
Ru04	104	44	1.44e-10
Ru05	105	44	0.00e+00
Ru06	106	44	0.00e+00
Rh03	103	45	1.45e-10
Rh05	105	45	0.00e+00
Pd04	104	46	1.38e-10
Pd05	105	46	1.25e-10
Pd06	106	46	2.50e-10
Pd07	107	46	2.50e-11
Pd08	108	46	2.69e-10
Pd09	109	46	0.00e+00
Pd10	110	46	9.08e-11

Ag07	107	47	7.60e-11
Ag09	109	47	1.18e-10
Ag11	111	47	0.00e+00
Cd08	108	48	6.48e-12
Cd09	109	48	0.00e+00
Cd10	110	48	1.69e-10
Cd11	111	48	1.05e-10
Cd12	112	48	2.81e-10
Cd13	113	48	1.07e-10
Cd14	114	48	3.69e-10
Cd15	115	48	0.00e+00
Cd16	116	48	1.38e-10
In13	113	49	2.53e-12
In15	115	49	1.06e-10
Sn14	114	50	8.09e-12
Sn15	115	50	4.17e-12
Sn16	116	50	4.03e-10
Sn17	117	50	1.82e-10
Sn18	118	50	7.04e-10
Sn19	119	50	2.26e-10
Sn20	120	50	9.90e-10
Sn21	121	50	0.00e+00
Sn22	122	50	3.49e-10
Sn23	123	50	0.00e+00
Sn24	124	50	1.76e-10
Sb21	121	51	1.15e-10
Sb22	122	51	0.00e+00
Sb23	123	51	8.24e-11
Sb24	124	51	0.00e+00
Sb25	125	51	0.00e+00
Te22	122	52	9.90e-11
Te23	123	52	3.30e-11
Te24	124	52	2.25e-10
Te25	125	52	1.71e-10
Te26	126	52	5.81e-10
Te27	127	52	0.00e+00
Te28	128	52	6.05e-10
Te30	130	52	6.04e-10
I127	127	53	3.91e-10
I128	128	53	0.00e+00
I129	129	53	2.74e-12

I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	2.81e-11
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	2.04e-11
Xe28	128	54	1.25e-10		Pm45	145	61	0.00e+00
Xe29	129	54	5.64e-10		Pm46	146	61	0.00e+00
Xe30	130	54	2.48e-10		Pm47	147	61	0.00e+00
Xe31	131	54	4.75e-10		Pm48	148	61	0.00e+00
Xe32	132	54	8.01e-10		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	3.83e-10		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	3.25e-12
Xe36	136	54	3.33e-10		Sm45	145	62	0.00e+00
Cs33	133	55	1.79e-10		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	1.93e-11
Cs35	135	55	4.85e-11		Sm48	148	62	1.66e-11
Cs36	136	55	0.00e+00		Sm49	149	62	1.63e-11
Cs37	137	55	1.07e-12		Sm50	150	62	1.39e-11
Ba34	134	56	1.03e-10		Sm51	151	62	0.00e+00
Ba35	135	56	1.29e-10		Sm52	152	62	3.45e-11
Ba36	136	56	3.18e-10		Sm53	153	62	0.00e+00
Ba37	137	56	6.82e-10		Sm54	154	62	2.95e-11
Ba38	138	56	2.22e-09		Eu51	151	63	1.97e-11
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	2.24e-11
La39	139	57	2.71e-10		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	5.41e-10		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	9.12e-11		Gd52	152	64	9.50e-13
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	5.13e-12
Pr41	141	59	8.81e-11		Gd55	155	64	2.29e-11
Pr42	142	59	0.00e+00		Gd56	156	64	3.49e-11
Pr43	143	59	0.00e+00		Gd57	157	64	2.50e-11
Pr45	145	59	0.00e+00		Gd58	158	64	4.56e-11
Nd42	142	60	1.09e-10		Gd59	159	64	0.00e+00
Nd43	143	60	4.90e-11		Gd60	160	64	3.63e-11
Nd44	144	60	1.13e-10		Tb59	159	65	2.81e-11
Nd45	145	60	3.39e-11		Tb60	160	65	0.00e+00
Nd46	146	60	8.55e-11		Tb61	161	65	0.00e+00

Dy60	160	66	7.13e-12
Dy61	161	66	3.45e-11
Dy62	162	66	5.27e-11
Dy63	163	66	4.57e-11
Dy64	164	66	6.22e-11
Dy65	165	66	0.00e+00
Dy66	166	66	0.00e+00
Ho63	163	67	2.82e-13
Ho64	164	67	0.00e+00
Ho65	165	67	4.37e-11
Ho66	166	67	0.00e+00
Er64	164	68	3.06e-12
Er65	165	68	0.00e+00
Er66	166	68	4.50e-11
Er67	167	68	2.97e-11
Er68	168	68	4.17e-11
Er69	169	68	0.00e+00
Er70	170	68	2.46e-11
Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	1.98e-11
Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00
Tm73	173	69	0.00e+00
Yb70	170	70	5.85e-12
Yb71	171	70	2.16e-11
Yb72	172	70	3.40e-11
Yb73	173	70	2.37e-11
Yb74	174	70	5.74e-11
Yb75	175	70	0.00e+00
Yb76	176	70	2.27e-11
Yb77	177	70	0.00e+00
Lu75	175	71	1.96e-11
Lu76	176	71	1.85e-12
Lu77	177	71	0.00e+00
Hf76	176	72	5.41e-12
Hf77	177	72	1.82e-11
Hf78	178	72	3.34e-11
Hf79	179	72	1.51e-11
Hf80	180	72	4.87e-11

Hf81	181	72	0.00e+00
Hf82	182	72	2.66e-12
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00
Ta81	181	73	1.52e-11
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	0.00e+00
W181	181	74	0.00e+00
W182	182	74	2.27e-11
W183	183	74	1.48e-11
W184	184	74	3.23e-11
W185	185	74	0.00e+00
W186	186	74	2.79e-11
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	1.34e-11
Re86	186	75	0.00e+00
Re87	187	75	1.87e-11
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	8.03e-12
Os87	187	76	7.18e-12
Os88	188	76	5.95e-11
Os89	189	76	5.97e-11
Os90	190	76	1.10e-10
Os91	191	76	0.00e+00
Os92	192	76	1.61e-10
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	1.29e-10
Ir92	192	77	0.00e+00
Ir93	193	77	2.21e-10
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	1.26e-11
Pt93	193	78	0.00e+00
Pt94	194	78	2.69e-10

Isotope	A	Z	YIELD
Pt95	195	78	2.56e-10
Pt96	196	78	2.17e-10
Pt97	197	78	0.00e+00
Pt98	198	78	5.89e-11
Au97	197	79	1.15e-10
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	4.12e-11
Hg99	199	80	4.84e-11
Hg00	200	80	8.09e-11
Hg01	201	80	4.25e-11
Hg02	202	80	1.11e-10
Hg03	203	80	0.00e+00
Hg04	204	80	2.01e-11
Tl03	203	81	5.01e-11
Tl04	204	81	0.00e+00
Tl05	205	81	9.30e-11
Pb04	204	82	5.55e-11
Pb05	205	82	8.03e-12
Pb06	206	82	5.09e-10
Pb07	207	82	5.26e-10
Pb08	208	82	3.06e-09
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	1.48e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M_0 = 6.00; Z = 0.001000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	3.26e+00
He4	4	2	1.68e+00
C12	12	6	5.21e-03
C13	13	6	2.14e-04
C14	14	6	4.01e-10
N14	14	7	1.97e-03

Isotope	A	Z	YIELD
N15	15	7	2.07e-07
O16	16	8	1.99e-03
O17	17	8	1.55e-05
O18	18	8	1.97e-06
F18	18	9	0.00e+00
F19	19	9	1.14e-07
Ne20	20	10	3.65e-04
Ne21	21	10	1.21e-06
Ne22	22	10	5.02e-05
Na22	22	11	7.62e-12
Na23	23	11	4.93e-05
Na24	24	11	0.00e+00
Mg24	24	12	1.92e-04
Mg25	25	12	3.05e-05
Mg26	26	12	4.73e-05
Al26	26	13	9.08e-08
Al27	27	13	2.47e-05
Si28	28	14	2.52e-04
Si29	29	14	1.35e-05
Si30	30	14	9.65e-06
Si31	31	14	0.00e+00
Si32	32	14	8.42e-12
P31	31	15	2.53e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	1.31e-04
S33	33	16	1.07e-06
S34	34	16	6.27e-06
S35	35	16	0.00e+00
S36	36	16	3.30e-08
Cl35	35	17	1.34e-06
Cl36	36	17	7.52e-10
Cl37	37	17	4.78e-07
Ar36	36	18	3.00e-05
Ar37	37	18	0.00e+00
Ar38	38	18	5.79e-06
Ar39	39	18	6.87e-11
Ar40	40	18	2.10e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	1.25e-06

K40	40	19	2.47e-09
K41	41	19	9.91e-08
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	2.25e-05
Ca41	41	20	2.84e-09
Ca42	42	20	1.61e-07
Ca43	43	20	3.46e-08
Ca44	44	20	5.36e-07
Ca45	45	20	0.00e+00
Ca46	46	20	3.94e-09
Ca47	47	20	0.00e+00
Ca48	48	20	5.22e-08
Sc45	45	21	1.62e-08
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	8.81e-08
Ti47	47	22	8.09e-08
Ti48	48	22	8.16e-07
Ti49	49	22	6.34e-08
Ti50	50	22	6.37e-08
V50	50	23	3.45e-10
V51	51	23	1.42e-07
Cr50	50	24	2.74e-07
Cr51	51	24	0.00e+00
Cr52	52	24	5.53e-06
Cr53	53	24	6.36e-07
Cr54	54	24	1.74e-07
Mn55	55	25	4.87e-06
Mn56	56	25	0.00e+00
Fe54	54	26	2.64e-05
Fe55	55	26	0.00e+00
Fe56	56	26	4.30e-04
Fe57	57	26	1.03e-05
Fe58	58	26	1.72e-06
Fe59	59	26	0.00e+00
Fe60	60	26	3.06e-07
Co59	59	27	1.42e-06
Co60	60	27	8.50e-13

Ni58	58	28	1.81e-05
Ni59	59	28	9.59e-09
Ni60	60	28	7.31e-06
Ni61	61	28	3.84e-07
Ni62	62	28	1.19e-06
Ni63	63	28	1.72e-10
Ni64	64	28	4.63e-07
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	3.14e-07
Cu64	64	29	0.00e+00
Cu65	65	29	1.46e-07
Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	3.77e-07
Zn65	65	30	0.00e+00
Zn66	66	30	2.55e-07
Zn67	67	30	4.06e-08
Zn68	68	30	2.00e-07
Zn69	69	30	0.00e+00
Zn70	70	30	5.89e-09
Ga69	69	31	2.09e-08
Ga70	70	31	0.00e+00
Ga71	71	31	1.35e-08
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	2.66e-08
Ge71	71	32	0.00e+00
Ge72	72	32	3.36e-08
Ge73	73	32	9.66e-09
Ge74	74	32	4.91e-08
Ge75	75	32	0.00e+00
Ge76	76	32	7.50e-09
Ge77	77	32	0.00e+00
As75	75	33	6.22e-09
As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	8.74e-09
Se77	77	34	5.43e-09
Se78	78	34	2.26e-08
Se79	79	34	2.02e-09

Se80	80	34	3.88e-08
Se81	81	34	0.00e+00
Se82	82	34	5.53e-09
Br79	79	35	4.58e-09
Br80	80	35	0.00e+00
Br81	81	35	6.66e-09
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	1.21e-09
Kr81	81	36	5.99e-11
Kr82	82	36	1.05e-08
Kr83	83	36	7.10e-09
Kr84	84	36	3.88e-08
Kr85	85	36	4.06e-13
Kr86	86	36	2.85e-08
Kr87	87	36	0.00e+00
Kr88	88	36	0.00e+00
Rb85	85	37	8.68e-09
Rb86	86	37	0.00e+00
Rb87	87	37	1.19e-08
Rb88	88	37	0.00e+00
Sr86	86	38	3.68e-09
Sr87	87	38	2.13e-09
Sr88	88	38	3.34e-08
Sr89	89	38	0.00e+00
Sr90	90	38	1.05e-12
Sr91	91	38	0.00e+00
Sr92	92	38	0.00e+00
Y89	89	39	8.14e-09
Y90	90	39	0.00e+00
Y91	91	39	0.00e+00
Y92	92	39	0.00e+00
Y93	93	39	0.00e+00
Zr90	90	40	7.97e-09
Zr91	91	40	2.03e-09
Zr92	92	40	3.13e-09
Zr93	93	40	5.38e-10
Zr94	94	40	3.35e-09
Zr95	95	40	0.00e+00
Zr96	96	40	1.30e-09

Zr97	97	40	0.00e+00
Nb93	93	41	6.75e-10
Nb94	94	41	0.00e+00
Nb95	95	41	0.00e+00
Nb96	96	41	0.00e+00
Nb97	97	41	0.00e+00
Mo92	92	42	3.68e-10
Mo93	93	42	0.00e+00
Mo94	94	42	2.45e-10
Mo95	95	42	6.78e-10
Mo96	96	42	6.97e-10
Mo97	97	42	4.14e-10
Mo98	98	42	1.14e-09
Mo99	99	42	0.00e+00
Mo00	100	42	3.24e-10
Tc97	97	43	5.72e-13
Tc98	98	43	0.00e+00
Tc99	99	43	7.02e-11
Ru96	96	44	9.22e-11
Ru97	97	44	0.00e+00
Ru98	98	44	3.20e-11
Ru99	99	44	2.24e-10
Ru00	100	44	4.33e-10
Ru01	101	44	3.45e-10
Ru02	102	44	8.77e-10
Ru03	103	44	0.00e+00
Ru04	104	44	3.97e-10
Ru05	105	44	0.00e+00
Ru06	106	44	0.00e+00
Rh03	103	45	4.13e-10
Rh05	105	45	0.00e+00
Pd04	104	46	3.07e-10
Pd05	105	46	3.65e-10
Pd06	106	46	6.04e-10
Pd07	107	46	3.99e-11
Pd08	108	46	6.24e-10
Pd09	109	46	0.00e+00
Pd10	110	46	2.27e-10
Ag07	107	47	2.55e-10
Ag09	109	47	3.12e-10
Ag11	111	47	0.00e+00

Cd08	108	48	2.10e-11
Cd09	109	48	0.00e+00
Cd10	110	48	3.73e-10
Cd11	111	48	2.76e-10
Cd12	112	48	6.46e-10
Cd13	113	48	2.75e-10
Cd14	114	48	8.22e-10
Cd15	115	48	0.00e+00
Cd16	116	48	2.65e-10
In13	113	49	8.46e-12
In15	115	49	2.60e-10
Sn14	114	50	2.70e-11
Sn15	115	50	1.39e-11
Sn16	116	50	9.33e-10
Sn17	117	50	4.43e-10
Sn18	118	50	1.58e-09
Sn19	119	50	5.27e-10
Sn20	120	50	2.16e-09
Sn21	121	50	0.00e+00
Sn22	122	50	5.58e-10
Sn23	123	50	0.00e+00
Sn24	124	50	3.77e-10
Sb21	121	51	2.83e-10
Sb22	122	51	0.00e+00
Sb23	123	51	2.06e-10
Sb24	124	51	0.00e+00
Sb25	125	51	0.00e+00
Te22	122	52	2.23e-10
Te23	123	52	7.60e-11
Te24	124	52	4.63e-10
Te25	125	52	4.70e-10
Te26	126	52	1.42e-09
Te27	127	52	0.00e+00
Te28	128	52	1.92e-09
Te30	130	52	2.02e-09
I127	127	53	1.24e-09
I128	128	53	0.00e+00
I129	129	53	3.17e-12
I130	130	53	0.00e+00
I131	131	53	0.00e+00
I132	132	53	0.00e+00

I133	133	53	0.00e+00
Xe28	128	54	2.65e-10
Xe29	129	54	1.83e-09
Xe30	130	54	5.23e-10
Xe31	131	54	1.50e-09
Xe32	132	54	2.14e-09
Xe33	133	54	0.00e+00
Xe34	134	54	8.85e-10
Xe35	135	54	0.00e+00
Xe36	136	54	7.08e-10
Cs33	133	55	5.10e-10
Cs34	134	55	0.00e+00
Cs35	135	55	5.73e-11
Cs36	136	55	0.00e+00
Cs37	137	55	2.98e-13
Ba34	134	56	2.23e-10
Ba35	135	56	3.98e-10
Ba36	136	56	6.88e-10
Ba37	137	56	1.23e-09
Ba38	138	56	5.45e-09
Ba39	139	56	0.00e+00
Ba40	140	56	0.00e+00
La39	139	57	7.07e-10
La40	140	57	0.00e+00
Ce40	140	58	1.58e-09
Ce41	141	58	0.00e+00
Ce42	142	58	2.29e-10
Ce43	143	58	0.00e+00
Ce44	144	58	0.00e+00
Pr41	141	59	2.60e-10
Pr42	142	59	0.00e+00
Pr43	143	59	0.00e+00
Pr45	145	59	0.00e+00
Nd42	142	60	3.38e-10
Nd43	143	60	1.49e-10
Nd44	144	60	3.19e-10
Nd45	145	60	1.03e-10
Nd46	146	60	2.39e-10
Nd47	147	60	0.00e+00
Nd48	148	60	7.83e-11
Nd49	149	60	0.00e+00

Nd50	150	60	6.72e-11		Dy63	163	66	1.50e-10
Pm45	145	61	0.00e+00		Dy64	164	66	1.90e-10
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	4.25e-13
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	1.42e-10
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	1.09e-11		Er64	164	68	9.11e-12
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	1.45e-10
Sm47	147	62	5.80e-11		Er67	167	68	9.58e-11
Sm48	148	62	4.89e-11		Er68	168	68	1.26e-10
Sm49	149	62	5.12e-11		Er69	169	68	0.00e+00
Sm50	150	62	3.71e-11		Er70	170	68	7.03e-11
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	1.06e-10		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	6.21e-11
Sm54	154	62	9.08e-11		Tm70	170	69	0.00e+00
Eu51	151	63	6.44e-11		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00
Eu53	153	63	7.28e-11		Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00		Yb70	170	70	1.70e-11
Eu55	155	63	0.00e+00		Yb71	171	70	6.42e-11
Eu56	156	63	0.00e+00		Yb72	172	70	1.02e-10
Eu57	157	63	0.00e+00		Yb73	173	70	7.22e-11
Gd52	152	64	3.08e-12		Yb74	174	70	1.60e-10
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00
Gd54	154	64	1.55e-11		Yb76	176	70	6.26e-11
Gd55	155	64	7.33e-11		Yb77	177	70	0.00e+00
Gd56	156	64	1.09e-10		Lu75	175	71	6.05e-11
Gd57	157	64	8.00e-11		Lu76	176	71	2.27e-12
Gd58	158	64	1.39e-10		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	2.04e-11
Gd60	160	64	1.15e-10		Hf77	177	72	5.56e-11
Tb59	159	65	9.04e-11		Hf78	178	72	9.40e-11
Tb60	160	65	0.00e+00		Hf79	179	72	4.43e-11
Tb61	161	65	0.00e+00		Hf80	180	72	1.30e-10
Dy60	160	66	2.01e-11		Hf81	181	72	0.00e+00
Dy61	161	66	1.12e-10		Hf82	182	72	3.34e-12
Dy62	162	66	1.66e-10		Hf83	183	72	0.00e+00

Isotope	A	Z	Yield
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00
Ta81	181	73	4.20e-11
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	2.60e-13
W181	181	74	0.00e+00
W182	182	74	6.76e-11
W183	183	74	3.96e-11
W184	184	74	8.67e-11
W185	185	74	0.00e+00
W186	186	74	7.65e-11
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	3.86e-11
Re86	186	75	0.00e+00
Re87	187	75	5.79e-11
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	2.36e-11
Os87	187	76	2.31e-11
Os88	188	76	1.78e-10
Os89	189	76	1.95e-10
Os90	190	76	3.46e-10
Os91	191	76	0.00e+00
Os92	192	76	5.20e-10
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	4.29e-10
Ir92	192	77	0.00e+00
Ir93	193	77	7.35e-10
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	3.83e-11
Pt93	193	78	0.00e+00
Pt94	194	78	8.69e-10
Pt95	195	78	8.49e-10
Pt96	196	78	6.89e-10
Pt97	197	78	0.00e+00

Isotope	A	Z	Yield
Pt98	198	78	1.88e-10
Au97	197	79	3.74e-10
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.10e-10
Hg99	199	80	1.46e-10
Hg00	200	80	2.22e-10
Hg01	201	80	1.21e-10
Hg02	202	80	2.96e-10
Hg03	203	80	0.00e+00
Hg04	204	80	6.03e-11
Tl03	203	81	1.32e-10
Tl04	204	81	0.00e+00
Tl05	205	81	2.81e-10
Pb04	204	82	1.52e-10
Pb05	205	82	1.21e-11
Pb06	206	82	1.50e-09
Pb07	207	82	1.61e-09
Pb08	208	82	9.65e-09
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	4.59e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M$_\odot$ = 6.00; Z = 0.002000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [M$_\odot$]
H	1	1	3.29e+00
He4	4	2	1.72e+00
C12	12	6	4.44e-03
C13	13	6	1.22e-04
C14	14	6	1.74e-08
N14	14	7	2.21e-03
N15	15	7	6.31e-07
O16	16	8	3.85e-03
O17	17	8	2.51e-05

O18	18	8	5.33e-06		K43	43	19	0.00e+00
F18	18	9	0.00e+00		Ca40	40	20	4.57e-05
F19	19	9	2.50e-07		Ca41	41	20	5.95e-09
Ne20	20	10	7.55e-04		Ca42	42	20	3.25e-07
Ne21	21	10	2.42e-06		Ca43	43	20	6.96e-08
Ne22	22	10	7.83e-05		Ca44	44	20	1.09e-06
Na22	22	11	0.00e+00		Ca45	45	20	0.00e+00
Na23	23	11	7.28e-05		Ca46	46	20	4.46e-09
Na24	24	11	0.00e+00		Ca47	47	20	0.00e+00
Mg24	24	12	3.89e-04		Ca48	48	20	1.06e-07
Mg25	25	12	5.12e-05		Sc45	45	21	3.15e-08
Mg26	26	12	7.25e-05		Sc46	46	21	0.00e+00
Al26	26	13	3.34e-08		Sc47	47	21	0.00e+00
Al27	27	13	4.64e-05		Sc48	48	21	0.00e+00
Si28	28	14	5.10e-04		Sc49	49	21	0.00e+00
Si29	29	14	2.71e-05		Ti46	46	22	1.79e-07
Si30	30	14	1.88e-05		Ti47	47	22	1.64e-07
Si31	31	14	0.00e+00		Ti48	48	22	1.66e-06
Si32	32	14	3.69e-12		Ti49	49	22	1.28e-07
P31	31	15	4.89e-06		Ti50	50	22	1.26e-07
P32	32	15	0.00e+00		V50	50	23	7.01e-10
P33	33	15	0.00e+00		V51	51	23	2.88e-07
S32	32	16	2.66e-04		Cr50	50	24	5.58e-07
S33	33	16	2.17e-06		Cr51	51	24	0.00e+00
S34	34	16	1.27e-05		Cr52	52	24	1.12e-05
S35	35	16	0.00e+00		Cr53	53	24	1.29e-06
S36	36	16	6.04e-08		Cr54	54	24	3.49e-07
Cl35	35	17	2.72e-06		Mn55	55	25	9.90e-06
Cl36	36	17	1.41e-09		Mn56	56	25	0.00e+00
Cl37	37	17	9.64e-07		Fe54	54	26	5.36e-05
Ar36	36	18	6.10e-05		Fe55	55	26	1.21e-13
Ar37	37	18	0.00e+00		Fe56	56	26	8.75e-04
Ar38	38	18	1.18e-05		Fe57	57	26	2.09e-05
Ar39	39	18	8.40e-11		Fe58	58	26	3.38e-06
Ar40	40	18	2.95e-08		Fe59	59	26	0.00e+00
Ar41	41	18	0.00e+00		Fe60	60	26	2.85e-07
Ar42	42	18	0.00e+00		Co59	59	27	2.81e-06
K39	39	19	2.54e-06		Co60	60	27	8.53e-13
K40	40	19	4.94e-09		Ni58	58	28	3.69e-05
K41	41	19	1.99e-07		Ni59	59	28	2.12e-08
K42	42	19	0.00e+00		Ni60	60	28	1.48e-05

Ni61	61	28	7.37e-07		Br79	79	35	8.92e-09
Ni62	62	28	2.28e-06		Br80	80	35	0.00e+00
Ni63	63	28	1.85e-10		Br81	81	35	1.05e-08
Ni64	64	28	7.39e-07		Br82	82	35	0.00e+00
Ni65	65	28	0.00e+00		Br83	83	35	0.00e+00
Ni66	66	28	0.00e+00		Br84	84	35	0.00e+00
Cu63	63	29	5.52e-07		Kr80	80	36	2.26e-09
Cu64	64	29	0.00e+00		Kr81	81	36	6.30e-11
Cu65	65	29	2.49e-07		Kr82	82	36	1.41e-08
Cu66	66	29	0.00e+00		Kr83	83	36	1.16e-08
Cu67	67	29	0.00e+00		Kr84	84	36	6.02e-08
Zn64	64	30	7.66e-07		Kr85	85	36	2.14e-13
Zn65	65	30	0.00e+00		Kr86	86	36	2.76e-08
Zn66	66	30	4.83e-07		Kr87	87	36	0.00e+00
Zn67	67	30	7.45e-08		Kr88	88	36	0.00e+00
Zn68	68	30	3.54e-07		Rb85	85	37	1.10e-08
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	1.11e-08		Rb87	87	37	9.05e-09
Ga69	69	31	3.53e-08		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	5.07e-09
Ga71	71	31	2.32e-08		Sr87	87	38	3.38e-09
Ga72	72	31	0.00e+00		Sr88	88	38	4.26e-08
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	4.32e-08		Sr90	90	38	4.29e-13
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	5.57e-08		Sr92	92	38	0.00e+00
Ge73	73	32	1.59e-08		Y89	89	39	1.02e-08
Ge74	74	32	7.73e-08		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	1.39e-08		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	1.03e-08		Zr90	90	40	1.19e-08
As76	76	33	0.00e+00		Zr91	91	40	2.75e-09
As77	77	33	0.00e+00		Zr92	92	40	4.23e-09
Se76	76	34	1.27e-08		Zr93	93	40	2.68e-10
Se77	77	34	8.95e-09		Zr94	94	40	4.40e-09
Se78	78	34	3.24e-08		Zr95	95	40	0.00e+00
Se79	79	34	1.55e-09		Zr96	96	40	1.06e-09
Se80	80	34	6.18e-08		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	1.37e-09
Se82	82	34	9.39e-09		Nb94	94	41	0.00e+00

Nb95	95	41	0.00e+00		Cd11	111	48	4.63e-10
Nb96	96	41	0.00e+00		Cd12	112	48	9.39e-10
Nb97	97	41	0.00e+00		Cd13	113	48	4.53e-10
Mo92	92	42	7.48e-10		Cd14	114	48	1.15e-09
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	4.97e-10		Cd16	116	48	3.20e-10
Mo95	95	42	9.59e-10		In13	113	49	1.72e-11
Mo96	96	42	1.01e-09		In15	115	49	4.16e-10
Mo97	97	42	5.83e-10		Sn14	114	50	5.49e-11
Mo98	98	42	1.53e-09		Sn15	115	50	2.83e-11
Mo99	99	42	0.00e+00		Sn16	116	50	1.36e-09
Mo00	100	42	5.57e-10		Sn17	117	50	7.00e-10
Tc97	97	43	1.11e-12		Sn18	118	50	2.30e-09
Tc98	98	43	0.00e+00		Sn19	119	50	8.05e-10
Tc99	99	43	3.23e-11		Sn20	120	50	3.14e-09
Ru96	96	44	1.88e-10		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	5.48e-10
Ru98	98	44	6.50e-11		Sn23	123	50	0.00e+00
Ru99	99	44	4.47e-10		Sn24	124	50	5.59e-10
Ru00	100	44	5.48e-10		Sb21	121	51	4.70e-10
Ru01	101	44	6.21e-10		Sb22	122	51	0.00e+00
Ru02	102	44	1.29e-09		Sb23	123	51	3.52e-10
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	7.10e-10		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	3.31e-10
Ru06	106	44	0.00e+00		Te23	123	52	1.15e-10
Rh03	103	45	7.45e-10		Te24	124	52	6.37e-10
Rh05	105	45	0.00e+00		Te25	125	52	8.50e-10
Pd04	104	46	4.07e-10		Te26	126	52	2.37e-09
Pd05	105	46	6.74e-10		Te27	127	52	0.00e+00
Pd06	106	46	9.22e-10		Te28	128	52	3.81e-09
Pd07	107	46	2.33e-11		Te30	130	52	4.11e-09
Pd08	108	46	9.09e-10		I127	127	53	2.45e-09
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	3.74e-10		I129	129	53	1.32e-12
Ag07	107	47	5.19e-10		I130	130	53	0.00e+00
Ag09	109	47	5.26e-10		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	4.20e-11		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	3.87e-10
Cd10	110	48	5.03e-10		Xe29	129	54	3.65e-09

Xe30	130	54	7.64e-10		Pm47	147	61	0.00e+00
Xe31	131	54	2.97e-09		Pm48	148	61	0.00e+00
Xe32	132	54	3.84e-09		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	1.45e-09		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	2.22e-11
Xe36	136	54	1.16e-09		Sm45	145	62	0.00e+00
Cs33	133	55	9.57e-10		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	1.14e-10
Cs35	135	55	2.51e-11		Sm48	148	62	9.43e-11
Cs36	136	55	0.00e+00		Sm49	149	62	1.02e-10
Cs37	137	55	0.00e+00		Sm50	150	62	6.85e-11
Ba34	134	56	3.36e-10		Sm51	151	62	0.00e+00
Ba35	135	56	7.75e-10		Sm52	152	62	2.10e-10
Ba36	136	56	1.05e-09		Sm53	153	62	0.00e+00
Ba37	137	56	1.57e-09		Sm54	154	62	1.80e-10
Ba38	138	56	9.53e-09		Eu51	151	63	1.30e-10
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	1.47e-10
La39	139	57	1.29e-09		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	3.06e-09		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	4.13e-10		Gd52	152	64	6.02e-12
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	3.00e-11
Pr41	141	59	5.05e-10		Gd55	155	64	1.47e-10
Pr42	142	59	0.00e+00		Gd56	156	64	2.17e-10
Pr43	143	59	0.00e+00		Gd57	157	64	1.60e-10
Pr45	145	59	0.00e+00		Gd58	158	64	2.72e-10
Nd42	142	60	6.68e-10		Gd59	159	64	0.00e+00
Nd43	143	60	2.94e-10		Gd60	160	64	2.29e-10
Nd44	144	60	6.08e-10		Tb59	159	65	1.82e-10
Nd45	145	60	2.03e-10		Tb60	160	65	0.00e+00
Nd46	146	60	4.53e-10		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	3.78e-11
Nd48	148	60	1.49e-10		Dy61	161	66	2.27e-10
Nd49	149	60	0.00e+00		Dy62	162	66	3.29e-10
Nd50	150	60	1.36e-10		Dy63	163	66	3.03e-10
Pm45	145	61	0.00e+00		Dy64	164	66	3.74e-10
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00

Dy66	166	66	0.00e+00		Ta81	181	73	7.96e-11
Ho63	163	67	3.88e-13		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta83	183	73	0.00e+00
Ho65	165	67	2.86e-10		Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00		W180	180	74	5.29e-13
Er64	164	68	1.74e-11		W181	181	74	0.00e+00
Er65	165	68	0.00e+00		W182	182	74	1.31e-10
Er66	166	68	2.91e-10		W183	183	74	7.40e-11
Er67	167	68	1.92e-10		W184	184	74	1.61e-10
Er68	168	68	2.46e-10		W185	185	74	0.00e+00
Er69	169	68	0.00e+00		W186	186	74	1.45e-10
Er70	170	68	1.35e-10		W187	187	74	0.00e+00
Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	7.44e-11
Tm69	169	69	1.24e-10		Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00		Re87	187	75	1.16e-10
Tm71	171	69	0.00e+00		Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00		Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00		Os86	186	76	4.51e-11
Yb70	170	70	3.25e-11		Os87	187	76	4.56e-11
Yb71	171	70	1.25e-10		Os88	188	76	3.49e-10
Yb72	172	70	1.98e-10		Os89	189	76	3.95e-10
Yb73	173	70	1.42e-10		Os90	190	76	6.89e-10
Yb74	174	70	3.03e-10		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	1.05e-09
Yb76	176	70	1.19e-10		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	1.20e-10		Ir91	191	77	8.71e-10
Lu76	176	71	4.10e-12		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	1.49e-09
Hf76	176	72	3.78e-11		Ir94	194	77	0.00e+00
Hf77	177	72	1.10e-10		Ir95	195	77	0.00e+00
Hf78	178	72	1.79e-10		Pt92	192	78	7.39e-11
Hf79	179	72	8.58e-11		Pt93	193	78	0.00e+00
Hf80	180	72	2.41e-10		Pt94	194	78	1.75e-09
Hf81	181	72	0.00e+00		Pt95	195	78	1.72e-09
Hf82	182	72	3.43e-12		Pt96	196	78	1.38e-09
Hf83	183	72	0.00e+00		Pt97	197	78	0.00e+00
Hf84	184	72	0.00e+00		Pt98	198	78	3.78e-10
Ta79	179	73	0.00e+00		Au97	197	79	7.53e-10
Ta80	180	73	0.00e+00		Au98	198	79	0.00e+00

Isotope	A	Z	YIELD
Au99	199	79	0.00e+00
Hg98	198	80	2.06e-10
Hg99	199	80	2.87e-10
Hg00	200	80	4.22e-10
Hg01	201	80	2.34e-10
Hg02	202	80	5.62e-10
Hg03	203	80	0.00e+00
Hg04	204	80	1.19e-10
Tl03	203	81	2.51e-10
Tl04	204	81	0.00e+00
Tl05	205	81	5.59e-10
Pb04	204	82	2.92e-10
Pb05	205	82	1.48e-11
Pb06	206	82	2.95e-09
Pb07	207	82	3.23e-09
Pb08	208	82	2.12e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	9.39e-10
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M$_\odot$ = 6.00; Z = 0.003000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [M$_\odot$]
H	1	1	3.38e+00
He4	4	2	1.81e+00
C12	12	6	4.02e-03
C13	13	6	1.10e-04
C14	14	6	2.22e-08
N14	14	7	3.23e-03
N15	15	7	1.12e-06
O16	16	8	5.91e-03
O17	17	8	3.10e-05
O18	18	8	8.62e-06
F18	18	9	0.00e+00
F19	19	9	3.94e-07

Isotope	A	Z	YIELD
Ne20	20	10	1.18e-03
Ne21	21	10	3.68e-06
Ne22	22	10	1.03e-04
Na22	22	11	0.00e+00
Na23	23	11	9.56e-05
Na24	24	11	0.00e+00
Mg24	24	12	6.03e-04
Mg25	25	12	7.37e-05
Mg26	26	12	1.05e-04
Al26	26	13	7.83e-08
Al27	27	13	7.04e-05
Si28	28	14	7.90e-04
Si29	29	14	4.17e-05
Si30	30	14	2.87e-05
Si31	31	14	0.00e+00
Si32	32	14	1.15e-12
P31	31	15	7.43e-06
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	4.13e-04
S33	33	16	3.37e-06
S34	34	16	1.96e-05
S35	35	16	0.00e+00
S36	36	16	8.88e-08
Cl35	35	17	4.23e-06
Cl36	36	17	2.04e-09
Cl37	37	17	1.49e-06
Ar36	36	18	9.47e-05
Ar37	37	18	0.00e+00
Ar38	38	18	1.82e-05
Ar39	39	18	8.39e-11
Ar40	40	18	3.67e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	3.93e-06
K40	40	19	7.52e-09
K41	41	19	3.07e-07
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	7.10e-05
Ca41	41	20	9.06e-09

Ca42	42	20	5.02e-07		Ni64	64	28	9.87e-07
Ca43	43	20	1.07e-07		Ni65	65	28	0.00e+00
Ca44	44	20	1.68e-06		Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00		Cu63	63	29	7.82e-07
Ca46	46	20	4.67e-09		Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00		Cu65	65	29	3.50e-07
Ca48	48	20	1.64e-07		Cu66	66	29	0.00e+00
Sc45	45	21	4.78e-08		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	1.19e-06
Sc47	47	21	0.00e+00		Zn65	65	30	0.00e+00
Sc48	48	21	0.00e+00		Zn66	66	30	7.23e-07
Sc49	49	21	0.00e+00		Zn67	67	30	1.10e-07
Ti46	46	22	2.77e-07		Zn68	68	30	5.12e-07
Ti47	47	22	2.54e-07		Zn69	69	30	0.00e+00
Ti48	48	22	2.58e-06		Zn70	70	30	1.68e-08
Ti49	49	22	1.98e-07		Ga69	69	31	4.95e-08
Ti50	50	22	1.93e-07		Ga70	70	31	0.00e+00
V50	50	23	1.09e-09		Ga71	71	31	3.30e-08
V51	51	23	4.48e-07		Ga72	72	31	0.00e+00
Cr50	50	24	8.66e-07		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	5.92e-08
Cr52	52	24	1.75e-05		Ge71	71	32	0.00e+00
Cr53	53	24	2.01e-06		Ge72	72	32	7.76e-08
Cr54	54	24	5.36e-07		Ge73	73	32	2.20e-08
Mn55	55	25	1.54e-05		Ge74	74	32	1.05e-07
Mn56	56	25	0.00e+00		Ge75	75	32	0.00e+00
Fe54	54	26	8.33e-05		Ge76	76	32	2.08e-08
Fe55	55	26	5.25e-13		Ge77	77	32	0.00e+00
Fe56	56	26	1.36e-03		As75	75	33	1.44e-08
Fe57	57	26	3.25e-05		As76	76	33	0.00e+00
Fe58	58	26	5.06e-06		As77	77	33	0.00e+00
Fe59	59	26	0.00e+00		Se76	76	34	1.63e-08
Fe60	60	26	1.76e-07		Se77	77	34	1.25e-08
Co59	59	27	4.25e-06		Se78	78	34	4.16e-08
Co60	60	27	5.53e-13		Se79	79	34	7.37e-10
Ni58	58	28	5.73e-05		Se80	80	34	8.56e-08
Ni59	59	28	3.36e-08		Se81	81	34	0.00e+00
Ni60	60	28	2.30e-05		Se82	82	34	1.39e-08
Ni61	61	28	1.10e-06		Br79	79	35	1.37e-08
Ni62	62	28	3.42e-06		Br80	80	35	0.00e+00
Ni63	63	28	1.70e-10		Br81	81	35	1.45e-08

Br82	82	35	0.00e+00		Mo92	92	42	1.16e-09
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	7.70e-10
Kr80	80	36	3.40e-09		Mo95	95	42	1.35e-09
Kr81	81	36	6.06e-11		Mo96	96	42	1.44e-09
Kr82	82	36	1.77e-08		Mo97	97	42	8.24e-10
Kr83	83	36	1.65e-08		Mo98	98	42	2.13e-09
Kr84	84	36	8.34e-08		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	8.31e-10
Kr86	86	36	2.90e-08		Tc97	97	43	1.62e-12
Kr87	87	36	0.00e+00		Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00		Tc99	99	43	1.48e-11
Rb85	85	37	1.36e-08		Ru96	96	44	2.92e-10
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	7.00e-09		Ru98	98	44	1.01e-10
Rb88	88	37	0.00e+00		Ru99	99	44	6.93e-10
Sr86	86	38	6.62e-09		Ru00	100	44	7.48e-10
Sr87	87	38	4.76e-09		Ru01	101	44	9.41e-10
Sr88	88	38	5.53e-08		Ru02	102	44	1.86e-09
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	1.16e-13		Ru04	104	44	1.07e-09
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	1.33e-08		Rh03	103	45	1.13e-09
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	5.66e-10
Y92	92	39	0.00e+00		Pd05	105	46	1.03e-09
Y93	93	39	0.00e+00		Pd06	106	46	1.34e-09
Zr90	90	40	1.68e-08		Pd07	107	46	1.84e-11
Zr91	91	40	3.75e-09		Pd08	108	46	1.31e-09
Zr92	92	40	5.80e-09		Pd09	109	46	0.00e+00
Zr93	93	40	1.26e-10		Pd10	110	46	5.55e-10
Zr94	94	40	6.03e-09		Ag07	107	47	8.07e-10
Zr95	95	40	0.00e+00		Ag09	109	47	7.86e-10
Zr96	96	40	1.13e-09		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	6.41e-11
Nb93	93	41	2.12e-09		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	7.06e-10
Nb95	95	41	0.00e+00		Cd11	111	48	6.90e-10
Nb96	96	41	0.00e+00		Cd12	112	48	1.35e-09
Nb97	97	41	0.00e+00		Cd13	113	48	6.73e-10

Cd14	114	48	1.65e-09		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	2.17e-09
Cd16	116	48	4.38e-10		Xe35	135	54	0.00e+00
In13	113	49	2.67e-11		Xe36	136	54	1.76e-09
In15	115	49	6.16e-10		Cs33	133	55	1.47e-09
Sn14	114	50	8.53e-11		Cs34	134	55	0.00e+00
Sn15	115	50	4.40e-11		Cs35	135	55	1.92e-11
Sn16	116	50	1.98e-09		Cs36	136	55	0.00e+00
Sn17	117	50	1.04e-09		Cs37	137	55	0.00e+00
Sn18	118	50	3.35e-09		Ba34	134	56	4.97e-10
Sn19	119	50	1.19e-09		Ba35	135	56	1.20e-09
Sn20	120	50	4.61e-09		Ba36	136	56	1.56e-09
Sn21	121	50	0.00e+00		Ba37	137	56	2.26e-09
Sn22	122	50	7.12e-10		Ba38	138	56	1.47e-08
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00
Sn24	124	50	8.20e-10		Ba40	140	56	0.00e+00
Sb21	121	51	7.07e-10		La39	139	57	2.00e-09
Sb22	122	51	0.00e+00		La40	140	57	0.00e+00
Sb23	123	51	5.32e-10		Ce40	140	58	4.82e-09
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	6.36e-10
Te22	122	52	4.89e-10		Ce43	143	58	0.00e+00
Te23	123	52	1.71e-10		Ce44	144	58	0.00e+00
Te24	124	52	9.25e-10		Pr41	141	59	7.91e-10
Te25	125	52	1.30e-09		Pr42	142	59	0.00e+00
Te26	126	52	3.57e-09		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	5.90e-09		Nd42	142	60	1.06e-09
Te30	130	52	6.39e-09		Nd43	143	60	4.58e-10
I127	127	53	3.79e-09		Nd44	144	60	9.47e-10
I128	128	53	0.00e+00		Nd45	145	60	3.15e-10
I129	129	53	6.57e-13		Nd46	146	60	7.06e-10
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	2.30e-10
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	2.11e-10
Xe28	128	54	5.66e-10		Pm45	145	61	0.00e+00
Xe29	129	54	5.67e-09		Pm46	146	61	0.00e+00
Xe30	130	54	1.12e-09		Pm47	147	61	0.00e+00
Xe31	131	54	4.60e-09		Pm48	148	61	0.00e+00
Xe32	132	54	5.86e-09		Pm49	149	61	0.00e+00

Pm50	150	61	0.00e+00		Ho65	165	67	4.44e-10
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	3.44e-11		Er64	164	68	2.68e-11
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	4.51e-10
Sm47	147	62	1.77e-10		Er67	167	68	2.99e-10
Sm48	148	62	1.47e-10		Er68	168	68	3.81e-10
Sm49	149	62	1.59e-10		Er69	169	68	0.00e+00
Sm50	150	62	1.07e-10		Er70	170	68	2.08e-10
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	3.26e-10		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	1.92e-10
Sm54	154	62	2.79e-10		Tm70	170	69	0.00e+00
Eu51	151	63	2.02e-10		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00
Eu53	153	63	2.28e-10		Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00		Yb70	170	70	5.02e-11
Eu55	155	63	0.00e+00		Yb71	171	70	1.94e-10
Eu56	156	63	0.00e+00		Yb72	172	70	3.08e-10
Eu57	157	63	0.00e+00		Yb73	173	70	2.20e-10
Gd52	152	64	9.15e-12		Yb74	174	70	4.70e-10
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00
Gd54	154	64	4.64e-11		Yb76	176	70	1.83e-10
Gd55	155	64	2.29e-10		Yb77	177	70	0.00e+00
Gd56	156	64	3.37e-10		Lu75	175	71	1.86e-10
Gd57	157	64	2.49e-10		Lu76	176	71	6.36e-12
Gd58	158	64	4.22e-10		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	5.85e-11
Gd60	160	64	3.55e-10		Hf77	177	72	1.71e-10
Tb59	159	65	2.82e-10		Hf78	178	72	2.78e-10
Tb60	160	65	0.00e+00		Hf79	179	72	1.33e-10
Tb61	161	65	0.00e+00		Hf80	180	72	3.73e-10
Dy60	160	66	5.85e-11		Hf81	181	72	0.00e+00
Dy61	161	66	3.52e-10		Hf82	182	72	4.65e-12
Dy62	162	66	5.11e-10		Hf83	183	72	0.00e+00
Dy63	163	66	4.71e-10		Hf84	184	72	0.00e+00
Dy64	164	66	5.80e-10		Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00		Ta80	180	73	0.00e+00
Dy66	166	66	0.00e+00		Ta81	181	73	1.23e-10
Ho63	163	67	6.29e-13		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta83	183	73	0.00e+00

Isotope	A	Z	YIELD
Ta84	184	73	0.00e+00
W180	180	74	8.23e-13
W181	181	74	0.00e+00
W182	182	74	2.04e-10
W183	183	74	1.15e-10
W184	184	74	2.50e-10
W185	185	74	0.00e+00
W186	186	74	2.24e-10
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	1.15e-10
Re86	186	75	0.00e+00
Re87	187	75	1.80e-10
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	7.03e-11
Os87	187	76	7.03e-11
Os88	188	76	5.41e-10
Os89	189	76	6.14e-10
Os90	190	76	1.07e-09
Os91	191	76	0.00e+00
Os92	192	76	1.62e-09
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	1.36e-09
Ir92	192	77	0.00e+00
Ir93	193	77	2.32e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	1.13e-10
Pt93	193	78	0.00e+00
Pt94	194	78	2.71e-09
Pt95	195	78	2.67e-09
Pt96	196	78	2.13e-09
Pt97	197	78	0.00e+00
Pt98	198	78	5.86e-10
Au97	197	79	1.17e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	3.19e-10
Hg99	199	80	4.45e-10

Isotope	A	Z	YIELD
Hg00	200	80	6.55e-10
Hg01	201	80	3.62e-10
Hg02	202	80	8.74e-10
Hg03	203	80	0.00e+00
Hg04	204	80	1.84e-10
Tl03	203	81	3.91e-10
Tl04	204	81	0.00e+00
Tl05	205	81	8.73e-10
Pb04	204	82	4.57e-10
Pb05	205	82	2.37e-11
Pb06	206	82	4.49e-09
Pb07	207	82	5.05e-09
Pb08	208	82	2.71e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	1.24e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 6.00; Z = 0.006000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	3.29e+00
He4	4	2	1.69e+00
C12	12	6	4.82e-03
C13	13	6	1.39e-04
C14	14	6	5.30e-08
N14	14	7	5.89e-03
N15	15	7	2.50e-06
O16	16	8	1.14e-02
O17	17	8	4.13e-05
O18	18	8	1.72e-05
F18	18	9	0.00e+00
F19	19	9	7.81e-07
Ne20	20	10	2.31e-03
Ne21	21	10	8.55e-06
Ne22	22	10	1.97e-04

Na22	22	11	0.00e+00
Na23	23	11	1.42e-04
Na24	24	11	0.00e+00
Mg24	24	12	1.16e-03
Mg25	25	12	1.41e-04
Mg26	26	12	1.99e-04
Al26	26	13	1.75e-07
Al27	27	13	1.34e-04
Si28	28	14	1.52e-03
Si29	29	14	8.01e-05
Si30	30	14	5.48e-05
Si31	31	14	0.00e+00
Si32	32	14	5.18e-13
P31	31	15	1.42e-05
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	7.96e-04
S33	33	16	6.50e-06
S34	34	16	3.77e-05
S35	35	16	0.00e+00
S36	36	16	1.68e-07
Cl35	35	17	8.16e-06
Cl36	36	17	2.80e-09
Cl37	37	17	2.84e-06
Ar36	36	18	1.83e-04
Ar37	37	18	0.00e+00
Ar38	38	18	3.51e-05
Ar39	39	18	7.88e-11
Ar40	40	18	6.56e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	7.58e-06
K40	40	19	1.33e-08
K41	41	19	5.88e-07
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	1.37e-04
Ca41	41	20	1.21e-08
Ca42	42	20	9.66e-07
Ca43	43	20	2.07e-07
Ca44	44	20	3.25e-06

Ca45	45	20	0.00e+00
Ca46	46	20	7.70e-09
Ca47	47	20	0.00e+00
Ca48	48	20	3.17e-07
Sc45	45	21	9.13e-08
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00
Ti46	46	22	5.34e-07
Ti47	47	22	4.90e-07
Ti48	48	22	4.97e-06
Ti49	49	22	3.80e-07
Ti50	50	22	3.71e-07
V50	50	23	2.10e-09
V51	51	23	8.62e-07
Cr50	50	24	1.67e-06
Cr51	51	24	0.00e+00
Cr52	52	24	3.37e-05
Cr53	53	24	3.88e-06
Cr54	54	24	1.02e-06
Mn55	55	25	2.96e-05
Mn56	56	25	0.00e+00
Fe54	54	26	1.61e-04
Fe55	55	26	9.83e-13
Fe56	56	26	2.62e-03
Fe57	57	26	6.25e-05
Fe58	58	26	9.50e-06
Fe59	59	26	0.00e+00
Fe60	60	26	1.61e-07
Co59	59	27	8.08e-06
Co60	60	27	4.84e-13
Ni58	58	28	1.11e-04
Ni59	59	28	4.57e-08
Ni60	60	28	4.43e-05
Ni61	61	28	2.06e-06
Ni62	62	28	6.49e-06
Ni63	63	28	1.54e-10
Ni64	64	28	1.78e-06
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00

Cu63	63	29	1.44e-06		Kr80	80	36	6.39e-09
Cu64	64	29	0.00e+00		Kr81	81	36	7.17e-11
Cu65	65	29	6.46e-07		Kr82	82	36	3.24e-08
Cu66	66	29	0.00e+00		Kr83	83	36	3.12e-08
Cu67	67	29	0.00e+00		Kr84	84	36	1.57e-07
Zn64	64	30	2.29e-06		Kr85	85	36	0.00e+00
Zn65	65	30	0.00e+00		Kr86	86	36	5.41e-08
Zn66	66	30	1.38e-06		Kr87	87	36	0.00e+00
Zn67	67	30	2.07e-07		Kr88	88	36	0.00e+00
Zn68	68	30	9.63e-07		Rb85	85	37	2.49e-08
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	3.21e-08		Rb87	87	37	1.19e-08
Ga69	69	31	9.19e-08		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	1.24e-08
Ga71	71	31	6.19e-08		Sr87	87	38	9.13e-09
Ga72	72	31	0.00e+00		Sr88	88	38	1.09e-07
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	1.09e-07		Sr90	90	38	1.20e-13
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	1.45e-07		Sr92	92	38	0.00e+00
Ge73	73	32	4.09e-08		Y89	89	39	2.65e-08
Ge74	74	32	1.94e-07		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	3.99e-08		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	2.70e-08		Zr90	90	40	3.34e-08
As76	76	33	0.00e+00		Zr91	91	40	7.60e-09
As77	77	33	0.00e+00		Zr92	92	40	1.18e-08
Se76	76	34	2.95e-08		Zr93	93	40	4.81e-10
Se77	77	34	2.35e-08		Zr94	94	40	1.25e-08
Se78	78	34	7.61e-08		Zr95	95	40	0.00e+00
Se79	79	34	6.25e-10		Zr96	96	40	2.43e-09
Se80	80	34	1.61e-07		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	4.11e-09
Se82	82	34	2.68e-08		Nb94	94	41	0.00e+00
Br79	79	35	2.64e-08		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	2.73e-08		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	2.25e-09
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	1.47e-09

Mo95	95	42	2.71e-09		In13	113	49	5.16e-11
Mo96	96	42	2.95e-09		In15	115	49	1.23e-09
Mo97	97	42	1.66e-09		Sn14	114	50	1.64e-10
Mo98	98	42	4.33e-09		Sn15	115	50	8.48e-11
Mo99	99	42	0.00e+00		Sn16	116	50	4.09e-09
Mo00	100	42	1.62e-09		Sn17	117	50	2.09e-09
Tc97	97	43	2.27e-12		Sn18	118	50	6.93e-09
Tc98	98	43	0.00e+00		Sn19	119	50	2.44e-09
Tc99	99	43	5.50e-11		Sn20	120	50	9.73e-09
Ru96	96	44	5.64e-10		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	1.53e-09
Ru98	98	44	1.95e-10		Sn23	123	50	0.00e+00
Ru99	99	44	1.34e-09		Sn24	124	50	1.58e-09
Ru00	100	44	1.54e-09		Sb21	121	51	1.43e-09
Ru01	101	44	1.85e-09		Sb22	122	51	0.00e+00
Ru02	102	44	3.72e-09		Sb23	123	51	1.05e-09
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	2.09e-09		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	1.03e-09
Ru06	106	44	0.00e+00		Te23	123	52	3.60e-10
Rh03	103	45	2.21e-09		Te24	124	52	1.98e-09
Rh05	105	45	0.00e+00		Te25	125	52	2.58e-09
Pd04	104	46	1.15e-09		Te26	126	52	7.25e-09
Pd05	105	46	2.01e-09		Te27	127	52	0.00e+00
Pd06	106	46	2.67e-09		Te28	128	52	1.14e-08
Pd07	107	46	4.82e-11		Te30	130	52	1.23e-08
Pd08	108	46	2.64e-09		I127	127	53	7.40e-09
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	1.09e-09		I129	129	53	2.96e-12
Ag07	107	47	1.57e-09		I130	130	53	0.00e+00
Ag09	109	47	1.56e-09		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	1.14e-10		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	1.17e-09
Cd10	110	48	1.45e-09		Xe29	129	54	1.10e-08
Cd11	111	48	1.37e-09		Xe30	130	54	2.32e-09
Cd12	112	48	2.74e-09		Xe31	131	54	8.98e-09
Cd13	113	48	1.34e-09		Xe32	132	54	1.18e-08
Cd14	114	48	3.38e-09		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	4.33e-09
Cd16	116	48	8.98e-10		Xe35	135	54	0.00e+00

Xe36	136	54	3.39e-09		Sm45	145	62	0.00e+00
Cs33	133	55	2.91e-09		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	3.92e-10
Cs35	135	55	9.61e-11		Sm48	148	62	3.66e-10
Cs36	136	55	0.00e+00		Sm49	149	62	3.31e-10
Cs37	137	55	1.57e-13		Sm50	150	62	2.85e-10
Ba34	134	56	1.09e-09		Sm51	151	62	0.00e+00
Ba35	135	56	2.37e-09		Sm52	152	62	7.05e-10
Ba36	136	56	3.49e-09		Sm53	153	62	0.00e+00
Ba37	137	56	4.92e-09		Sm54	154	62	5.76e-10
Ba38	138	56	3.60e-08		Eu51	151	63	4.07e-10
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	4.58e-10
La39	139	57	4.80e-09		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	1.20e-08		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	1.52e-09		Gd52	152	64	1.58e-11
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	1.01e-10
Pr41	141	59	1.84e-09		Gd55	155	64	4.66e-10
Pr42	142	59	0.00e+00		Gd56	156	64	7.06e-10
Pr43	143	59	0.00e+00		Gd57	157	64	5.10e-10
Pr45	145	59	0.00e+00		Gd58	158	64	9.17e-10
Nd42	142	60	2.64e-09		Gd59	159	64	0.00e+00
Nd43	143	60	1.02e-09		Gd60	160	64	7.14e-10
Nd44	144	60	2.25e-09		Tb59	159	65	5.74e-10
Nd45	145	60	6.92e-10		Tb60	160	65	0.00e+00
Nd46	146	60	1.74e-09		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	1.43e-10
Nd48	148	60	5.26e-10		Dy61	161	66	7.06e-10
Nd49	149	60	0.00e+00		Dy62	162	66	1.06e-09
Nd50	150	60	4.11e-10		Dy63	163	66	9.42e-10
Pm45	145	61	0.00e+00		Dy64	164	66	1.24e-09
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	2.98e-12
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	8.94e-10
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	6.64e-11		Er64	164	68	6.21e-11

Er65	165	68	0.00e+00
Er66	166	68	9.16e-10
Er67	167	68	6.06e-10
Er68	168	68	8.30e-10
Er69	169	68	0.00e+00
Er70	170	68	4.59e-10
Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	3.95e-10
Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00
Tm73	173	69	0.00e+00
Yb70	170	70	1.18e-10
Yb71	171	70	4.27e-10
Yb72	172	70	6.94e-10
Yb73	173	70	4.78e-10
Yb74	174	70	1.14e-09
Yb75	175	70	0.00e+00
Yb76	176	70	4.09e-10
Yb77	177	70	0.00e+00
Lu75	175	71	3.95e-10
Lu76	176	71	1.78e-11
Lu77	177	71	0.00e+00
Hf76	176	72	1.53e-10
Hf77	177	72	3.62e-10
Hf78	178	72	6.59e-10
Hf79	179	72	3.02e-10
Hf80	180	72	9.60e-10
Hf81	181	72	0.00e+00
Hf82	182	72	2.91e-11
Hf83	183	72	0.00e+00
Hf84	184	72	0.00e+00
Ta79	179	73	0.00e+00
Ta80	180	73	0.00e+00
Ta81	181	73	2.93e-10
Ta82	182	73	0.00e+00
Ta83	183	73	0.00e+00
Ta84	184	73	0.00e+00
W180	180	74	1.60e-12
W181	181	74	0.00e+00

W182	182	74	4.74e-10
W183	183	74	2.88e-10
W184	184	74	6.49e-10
W185	185	74	0.00e+00
W186	186	74	5.29e-10
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	2.62e-10
Re86	186	75	0.00e+00
Re87	187	75	3.77e-10
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	1.78e-10
Os87	187	76	1.47e-10
Os88	188	76	1.18e-09
Os89	189	76	1.23e-09
Os90	190	76	2.21e-09
Os91	191	76	0.00e+00
Os92	192	76	3.24e-09
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	2.67e-09
Ir92	192	77	0.00e+00
Ir93	193	77	4.55e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	2.28e-10
Pt93	193	78	0.00e+00
Pt94	194	78	5.38e-09
Pt95	195	78	5.25e-09
Pt96	196	78	4.32e-09
Pt97	197	78	0.00e+00
Pt98	198	78	1.16e-09
Au97	197	79	2.33e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	8.04e-10
Hg99	199	80	9.64e-10
Hg00	200	80	1.60e-09
Hg01	201	80	8.51e-10
Hg02	202	80	2.30e-09

Isotope	A	Z	YIELD
Hg03	203	80	0.00e+00
Hg04	204	80	3.85e-10
Tl03	203	81	1.05e-09
Tl04	204	81	0.00e+00
Tl05	205	81	2.08e-09
Pb04	204	82	1.24e-09
Pb05	205	82	1.22e-10
Pb06	206	82	1.16e-08
Pb07	207	82	1.38e-08
Pb08	208	82	4.52e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	2.10e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 6.00; Z = 0.008000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	3.28e+00
He4	4	2	1.68e+00
C12	12	6	5.81e-03
C13	13	6	1.82e-04
C14	14	6	7.01e-08
N14	14	7	7.64e-03
N15	15	7	3.45e-06
O16	16	8	1.53e-02
O17	17	8	4.80e-05
O18	18	8	2.35e-05
F18	18	9	0.00e+00
F19	19	9	1.06e-06
Ne20	20	10	3.09e-03
Ne21	21	10	1.33e-05
Ne22	22	10	2.67e-04
Na22	22	11	1.25e-12
Na23	23	11	1.72e-04
Na24	24	11	0.00e+00

Isotope	A	Z	YIELD
Mg24	24	12	1.55e-03
Mg25	25	12	1.88e-04
Mg26	26	12	2.62e-04
Al26	26	13	2.91e-07
Al27	27	13	1.79e-04
Si28	28	14	2.02e-03
Si29	29	14	1.06e-04
Si30	30	14	7.28e-05
Si31	31	14	0.00e+00
Si32	32	14	3.45e-13
P31	31	15	1.89e-05
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	1.06e-03
S33	33	16	8.65e-06
S34	34	16	5.01e-05
S35	35	16	0.00e+00
S36	36	16	2.22e-07
Cl35	35	17	1.09e-05
Cl36	36	17	3.08e-09
Cl37	37	17	3.76e-06
Ar36	36	18	2.43e-04
Ar37	37	18	0.00e+00
Ar38	38	18	4.67e-05
Ar39	39	18	8.31e-11
Ar40	40	18	8.55e-08
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	1.01e-05
K40	40	19	1.71e-08
K41	41	19	7.81e-07
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	1.82e-04
Ca41	41	20	1.27e-08
Ca42	42	20	1.29e-06
Ca43	43	20	2.75e-07
Ca44	44	20	4.32e-06
Ca45	45	20	0.00e+00
Ca46	46	20	9.72e-09
Ca47	47	20	0.00e+00

Ca48	48	20	4.22e-07		Cu66	66	29	0.00e+00
Sc45	45	21	1.21e-07		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	3.06e-06
Sc47	47	21	0.00e+00		Zn65	65	30	0.00e+00
Sc48	48	21	0.00e+00		Zn66	66	30	1.83e-06
Sc49	49	21	0.00e+00		Zn67	67	30	2.74e-07
Ti46	46	22	7.11e-07		Zn68	68	30	1.27e-06
Ti47	47	22	6.53e-07		Zn69	69	30	0.00e+00
Ti48	48	22	6.62e-06		Zn70	70	30	4.27e-08
Ti49	49	22	5.05e-07		Ga69	69	31	1.21e-07
Ti50	50	22	4.93e-07		Ga70	70	31	0.00e+00
V50	50	23	2.80e-09		Ga71	71	31	8.19e-08
V51	51	23	1.15e-06		Ga72	72	31	0.00e+00
Cr50	50	24	2.23e-06		Ga73	73	31	0.00e+00
Cr51	51	24	0.00e+00		Ge70	70	32	1.44e-07
Cr52	52	24	4.48e-05		Ge71	71	32	0.00e+00
Cr53	53	24	5.17e-06		Ge72	72	32	1.91e-07
Cr54	54	24	1.35e-06		Ge73	73	32	5.40e-08
Mn55	55	25	3.93e-05		Ge74	74	32	2.56e-07
Mn56	56	25	0.00e+00		Ge75	75	32	0.00e+00
Fe54	54	26	2.14e-04		Ge76	76	32	5.31e-08
Fe55	55	26	1.75e-12		Ge77	77	32	0.00e+00
Fe56	56	26	3.49e-03		As75	75	33	3.58e-08
Fe57	57	26	8.31e-05		As76	76	33	0.00e+00
Fe58	58	26	1.25e-05		As77	77	33	0.00e+00
Fe59	59	26	0.00e+00		Se76	76	34	3.89e-08
Fe60	60	26	1.34e-07		Se77	77	34	3.11e-08
Co59	59	27	1.07e-05		Se78	78	34	1.00e-07
Co60	60	27	3.96e-13		Se79	79	34	6.62e-10
Ni58	58	28	1.47e-04		Se80	80	34	2.13e-07
Ni59	59	28	5.17e-08		Se81	81	34	0.00e+00
Ni60	60	28	5.89e-05		Se82	82	34	3.56e-08
Ni61	61	28	2.72e-06		Br79	79	35	3.52e-08
Ni62	62	28	8.59e-06		Br80	80	35	0.00e+00
Ni63	63	28	1.44e-10		Br81	81	35	3.61e-08
Ni64	64	28	2.32e-06		Br82	82	35	0.00e+00
Ni65	65	28	0.00e+00		Br83	83	35	0.00e+00
Ni66	66	28	0.00e+00		Br84	84	35	0.00e+00
Cu63	63	29	1.88e-06		Kr80	80	36	8.40e-09
Cu64	64	29	0.00e+00		Kr81	81	36	7.61e-11
Cu65	65	29	8.48e-07		Kr82	82	36	4.29e-08

Kr83	83	36	4.16e-08	Mo98	98	42	5.97e-09
Kr84	84	36	2.09e-07	Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00	Mo00	100	42	2.17e-09
Kr86	86	36	7.33e-08	Tc97	97	43	2.34e-12
Kr87	87	36	0.00e+00	Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00	Tc99	99	43	9.64e-11
Rb85	85	37	3.30e-08	Ru96	96	44	7.51e-10
Rb86	86	37	0.00e+00	Ru97	97	44	0.00e+00
Rb87	87	37	1.59e-08	Ru98	98	44	2.59e-10
Rb88	88	37	0.00e+00	Ru99	99	44	1.79e-09
Sr86	86	38	1.66e-08	Ru00	100	44	2.15e-09
Sr87	87	38	1.23e-08	Ru01	101	44	2.49e-09
Sr88	88	38	1.50e-07	Ru02	102	44	5.08e-09
Sr89	89	38	0.00e+00	Ru03	103	44	0.00e+00
Sr90	90	38	1.37e-13	Ru04	104	44	2.79e-09
Sr91	91	38	0.00e+00	Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00	Ru06	106	44	0.00e+00
Y89	89	39	3.65e-08	Rh03	103	45	2.98e-09
Y90	90	39	0.00e+00	Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00	Pd04	104	46	1.60e-09
Y92	92	39	0.00e+00	Pd05	105	46	2.71e-09
Y93	93	39	0.00e+00	Pd06	106	46	3.64e-09
Zr90	90	40	4.59e-08	Pd07	107	46	7.81e-11
Zr91	91	40	1.05e-08	Pd08	108	46	3.64e-09
Zr92	92	40	1.64e-08	Pd09	109	46	0.00e+00
Zr93	93	40	8.74e-10	Pd10	110	46	1.46e-09
Zr94	94	40	1.75e-08	Ag07	107	47	2.09e-09
Zr95	95	40	0.00e+00	Ag09	109	47	2.11e-09
Zr96	96	40	3.34e-09	Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00	Cd08	108	48	1.45e-10
Nb93	93	41	5.48e-09	Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00	Cd10	110	48	2.03e-09
Nb95	95	41	0.00e+00	Cd11	111	48	1.86e-09
Nb96	96	41	0.00e+00	Cd12	112	48	3.79e-09
Nb97	97	41	0.00e+00	Cd13	113	48	1.83e-09
Mo92	92	42	2.99e-09	Cd14	114	48	4.71e-09
Mo93	93	42	0.00e+00	Cd15	115	48	0.00e+00
Mo94	94	42	1.95e-09	Cd16	116	48	1.23e-09
Mo95	95	42	3.71e-09	In13	113	49	6.87e-11
Mo96	96	42	4.11e-09	In15	115	49	1.69e-09
Mo97	97	42	2.27e-09	Sn14	114	50	2.18e-10

Sn15	115	50	1.13e-10		Cs35	135	55	1.67e-10
Sn16	116	50	5.73e-09		Cs36	136	55	0.00e+00
Sn17	117	50	2.88e-09		Cs37	137	55	2.02e-13
Sn18	118	50	9.67e-09		Ba34	134	56	1.59e-09
Sn19	119	50	3.38e-09		Ba35	135	56	3.21e-09
Sn20	120	50	1.37e-08		Ba36	136	56	5.11e-09
Sn21	121	50	0.00e+00		Ba37	137	56	6.95e-09
Sn22	122	50	2.09e-09		Ba38	138	56	5.31e-08
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00
Sn24	124	50	2.10e-09		Ba40	140	56	0.00e+00
Sb21	121	51	1.97e-09		La39	139	57	6.98e-09
Sb22	122	51	0.00e+00		La40	140	57	0.00e+00
Sb23	123	51	1.41e-09		Ce40	140	58	1.75e-08
Sb24	124	51	0.00e+00		Ce41	141	58	0.00e+00
Sb25	125	51	0.00e+00		Ce42	142	58	2.07e-09
Te22	122	52	1.46e-09		Ce43	143	58	0.00e+00
Te23	123	52	5.09e-10		Ce44	144	58	0.00e+00
Te24	124	52	2.81e-09		Pr41	141	59	2.61e-09
Te25	125	52	3.50e-09		Pr42	142	59	0.00e+00
Te26	126	52	9.98e-09		Pr43	143	59	0.00e+00
Te27	127	52	0.00e+00		Pr45	145	59	0.00e+00
Te28	128	52	1.52e-08		Nd42	142	60	3.87e-09
Te30	130	52	1.64e-08		Nd43	143	60	1.41e-09
I127	127	53	9.93e-09		Nd44	144	60	3.17e-09
I128	128	53	0.00e+00		Nd45	145	60	9.55e-10
I129	129	53	4.94e-12		Nd46	146	60	2.47e-09
I130	130	53	0.00e+00		Nd47	147	60	0.00e+00
I131	131	53	0.00e+00		Nd48	148	60	7.22e-10
I132	132	53	0.00e+00		Nd49	149	60	0.00e+00
I133	133	53	0.00e+00		Nd50	150	60	5.49e-10
Xe28	128	54	1.63e-09		Pm45	145	61	0.00e+00
Xe29	129	54	1.48e-08		Pm46	146	61	0.00e+00
Xe30	130	54	3.26e-09		Pm47	147	61	0.00e+00
Xe31	131	54	1.20e-08		Pm48	148	61	0.00e+00
Xe32	132	54	1.61e-08		Pm49	149	61	0.00e+00
Xe33	133	54	0.00e+00		Pm50	150	61	0.00e+00
Xe34	134	54	5.82e-09		Pm51	151	61	0.00e+00
Xe35	135	54	0.00e+00		Sm44	144	62	8.85e-11
Xe36	136	54	4.50e-09		Sm45	145	62	0.00e+00
Cs33	133	55	3.95e-09		Sm46	146	62	0.00e+00
Cs34	134	55	0.00e+00		Sm47	147	62	5.42e-10

Sm48	148	62	5.28e-10		Er68	168	68	1.13e-09
Sm49	149	62	4.50e-10		Er69	169	68	0.00e+00
Sm50	150	62	4.11e-10		Er70	170	68	6.22e-10
Sm51	151	62	0.00e+00		Er71	171	68	0.00e+00
Sm52	152	62	9.68e-10		Er72	172	68	0.00e+00
Sm53	153	62	0.00e+00		Tm69	169	69	5.34e-10
Sm54	154	62	7.76e-10		Tm70	170	69	0.00e+00
Eu51	151	63	5.50e-10		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00
Eu53	153	63	6.18e-10		Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00		Yb70	170	70	1.65e-10
Eu55	155	63	0.00e+00		Yb71	171	70	5.83e-10
Eu56	156	63	0.00e+00		Yb72	172	70	9.60e-10
Eu57	157	63	0.00e+00		Yb73	173	70	6.54e-10
Gd52	152	64	1.92e-11		Yb74	174	70	1.60e-09
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00
Gd54	154	64	1.39e-10		Yb76	176	70	5.54e-10
Gd55	155	64	6.30e-10		Yb77	177	70	0.00e+00
Gd56	156	64	9.60e-10		Lu75	175	71	5.38e-10
Gd57	157	64	6.91e-10		Lu76	176	71	2.53e-11
Gd58	158	64	1.26e-09		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	2.15e-10
Gd60	160	64	9.58e-10		Hf77	177	72	4.91e-10
Tb59	159	65	7.77e-10		Hf78	178	72	9.13e-10
Tb60	160	65	0.00e+00		Hf79	179	72	4.16e-10
Tb61	161	65	0.00e+00		Hf80	180	72	1.35e-09
Dy60	160	66	2.01e-10		Hf81	181	72	0.00e+00
Dy61	161	66	9.51e-10		Hf82	182	72	4.15e-11
Dy62	162	66	1.44e-09		Hf83	183	72	0.00e+00
Dy63	163	66	1.27e-09		Hf84	184	72	0.00e+00
Dy64	164	66	1.68e-09		Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00		Ta80	180	73	0.00e+00
Dy66	166	66	0.00e+00		Ta81	181	73	4.05e-10
Ho63	163	67	4.74e-12		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta83	183	73	0.00e+00
Ho65	165	67	1.21e-09		Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00		W180	180	74	2.14e-12
Er64	164	68	8.77e-11		W181	181	74	0.00e+00
Er65	165	68	0.00e+00		W182	182	74	6.60e-10
Er66	166	68	1.24e-09		W183	183	74	4.02e-10
Er67	167	68	8.17e-10		W184	184	74	9.11e-10

Isotope	A	Z	YIELD
W185	185	74	0.00e+00
W186	186	74	7.23e-10
W187	187	74	0.00e+00
W188	188	74	0.00e+00
Re85	185	75	3.58e-10
Re86	186	75	0.00e+00
Re87	187	75	5.09e-10
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	2.55e-10
Os87	187	76	2.02e-10
Os88	188	76	1.60e-09
Os89	189	76	1.65e-09
Os90	190	76	2.98e-09
Os91	191	76	0.00e+00
Os92	192	76	4.33e-09
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	3.58e-09
Ir92	192	77	0.00e+00
Ir93	193	77	6.09e-09
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	2.98e-10
Pt93	193	78	0.00e+00
Pt94	194	78	7.18e-09
Pt95	195	78	7.02e-09
Pt96	196	78	5.78e-09
Pt97	197	78	0.00e+00
Pt98	198	78	1.55e-09
Au97	197	79	3.13e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.10e-09
Hg99	199	80	1.30e-09
Hg00	200	80	2.20e-09
Hg01	201	80	1.16e-09
Hg02	202	80	3.17e-09
Hg03	203	80	0.00e+00
Hg04	204	80	5.11e-10
Tl03	203	81	1.45e-09

Isotope	A	Z	YIELD
Tl04	204	81	0.00e+00
Tl05	205	81	2.87e-09
Pb04	204	82	1.72e-09
Pb05	205	82	1.44e-10
Pb06	206	82	1.52e-08
Pb07	207	82	1.70e-08
Pb08	208	82	4.39e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	2.45e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 6.00; Z = 0.010000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	3.33e+00
He4	4	2	1.67e+00
C12	12	6	6.68e-03
C13	13	6	2.31e-04
C14	14	6	8.27e-08
N14	14	7	9.48e-03
N15	15	7	4.45e-06
O16	16	8	1.93e-02
O17	17	8	5.54e-05
O18	18	8	3.02e-05
F18	18	9	0.00e+00
F19	19	9	1.35e-06
Ne20	20	10	3.90e-03
Ne21	21	10	1.80e-05
Ne22	22	10	3.36e-04
Na22	22	11	0.00e+00
Na23	23	11	2.06e-04
Na24	24	11	0.00e+00
Mg24	24	12	1.95e-03
Mg25	25	12	2.36e-04
Mg26	26	12	3.27e-04

Al26	26	13	2.46e-07		Sc47	47	21	0.00e+00
Al27	27	13	2.26e-04		Sc48	48	21	0.00e+00
Si28	28	14	2.54e-03		Sc49	49	21	0.00e+00
Si29	29	14	1.34e-04		Ti46	46	22	8.96e-07
Si30	30	14	9.16e-05		Ti47	47	22	8.24e-07
Si31	31	14	0.00e+00		Ti48	48	22	8.34e-06
Si32	32	14	5.55e-13		Ti49	49	22	6.35e-07
P31	31	15	2.38e-05		Ti50	50	22	6.21e-07
P32	32	15	0.00e+00		V50	50	23	3.53e-09
P33	33	15	0.00e+00		V51	51	23	1.45e-06
S32	32	16	1.34e-03		Cr50	50	24	2.81e-06
S33	33	16	1.09e-05		Cr51	51	24	0.00e+00
S34	34	16	6.32e-05		Cr52	52	24	5.65e-05
S35	35	16	0.00e+00		Cr53	53	24	6.52e-06
S36	36	16	2.77e-07		Cr54	54	24	1.70e-06
Cl35	35	17	1.37e-05		Mn55	55	25	4.95e-05
Cl36	36	17	3.05e-09		Mn56	56	25	0.00e+00
Cl37	37	17	4.72e-06		Fe54	54	26	2.70e-04
Ar36	36	18	3.06e-04		Fe55	55	26	2.83e-12
Ar37	37	18	0.00e+00		Fe56	56	26	4.40e-03
Ar38	38	18	5.89e-05		Fe57	57	26	1.05e-04
Ar39	39	18	1.19e-10		Fe58	58	26	1.54e-05
Ar40	40	18	1.06e-07		Fe59	59	26	0.00e+00
Ar41	41	18	0.00e+00		Fe60	60	26	9.13e-08
Ar42	42	18	0.00e+00		Co59	59	27	1.33e-05
K39	39	19	1.27e-05		Co60	60	27	2.65e-13
K40	40	19	2.05e-08		Ni58	58	28	1.86e-04
K41	41	19	9.80e-07		Ni59	59	28	5.40e-08
K42	42	19	0.00e+00		Ni60	60	28	7.42e-05
K43	43	19	0.00e+00		Ni61	61	28	3.39e-06
Ca40	40	20	2.30e-04		Ni62	62	28	1.08e-05
Ca41	41	20	1.18e-08		Ni63	63	28	3.33e-10
Ca42	42	20	1.62e-06		Ni64	64	28	2.87e-06
Ca43	43	20	3.46e-07		Ni65	65	28	0.00e+00
Ca44	44	20	5.44e-06		Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00		Cu63	63	29	2.33e-06
Ca46	46	20	1.17e-08		Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00		Cu65	65	29	1.06e-06
Ca48	48	20	5.32e-07		Cu66	66	29	0.00e+00
Sc45	45	21	1.52e-07		Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00		Zn64	64	30	3.85e-06

Zn65	65	30	0.00e+00		Kr86	86	36	9.28e-08
Zn66	66	30	2.30e-06		Kr87	87	36	0.00e+00
Zn67	67	30	3.44e-07		Kr88	88	36	0.00e+00
Zn68	68	30	1.60e-06		Rb85	85	37	4.16e-08
Zn69	69	30	0.00e+00		Rb86	86	37	0.00e+00
Zn70	70	30	5.37e-08		Rb87	87	37	1.99e-08
Ga69	69	31	1.51e-07		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	2.11e-08
Ga71	71	31	1.03e-07		Sr87	87	38	1.57e-08
Ga72	72	31	0.00e+00		Sr88	88	38	1.94e-07
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	1.80e-07		Sr90	90	38	4.12e-13
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	2.40e-07		Sr92	92	38	0.00e+00
Ge73	73	32	6.78e-08		Y89	89	39	4.72e-08
Ge74	74	32	3.22e-07		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	6.69e-08		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	4.51e-08		Zr90	90	40	5.91e-08
As76	76	33	0.00e+00		Zr91	91	40	1.36e-08
As77	77	33	0.00e+00		Zr92	92	40	2.12e-08
Se76	76	34	4.87e-08		Zr93	93	40	1.29e-09
Se77	77	34	3.92e-08		Zr94	94	40	2.27e-08
Se78	78	34	1.26e-07		Zr95	95	40	0.00e+00
Se79	79	34	7.58e-10		Zr96	96	40	4.19e-09
Se80	80	34	2.69e-07		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	6.92e-09
Se82	82	34	4.48e-08		Nb94	94	41	0.00e+00
Br79	79	35	4.45e-08		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	4.55e-08		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	3.77e-09
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	2.44e-09
Kr80	80	36	1.05e-08		Mo95	95	42	4.76e-09
Kr81	81	36	7.64e-11		Mo96	96	42	5.33e-09
Kr82	82	36	5.41e-08		Mo97	97	42	2.91e-09
Kr83	83	36	5.25e-08		Mo98	98	42	7.66e-09
Kr84	84	36	2.64e-07		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	2.74e-09

Tc97	97	43	2.13e-12		Sn18	118	50	1.25e-08
Tc98	98	43	0.00e+00		Sn19	119	50	4.36e-09
Tc99	99	43	1.37e-10		Sn20	120	50	1.78e-08
Ru96	96	44	9.48e-10		Sn21	121	50	0.00e+00
Ru97	97	44	0.00e+00		Sn22	122	50	2.60e-09
Ru98	98	44	3.27e-10		Sn23	123	50	0.00e+00
Ru99	99	44	2.27e-09		Sn24	124	50	2.64e-09
Ru00	100	44	2.77e-09		Sb21	121	51	2.52e-09
Ru01	101	44	3.17e-09		Sb22	122	51	0.00e+00
Ru02	102	44	6.51e-09		Sb23	123	51	1.79e-09
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	3.53e-09		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	1.90e-09
Ru06	106	44	0.00e+00		Te23	123	52	6.63e-10
Rh03	103	45	3.78e-09		Te24	124	52	3.66e-09
Rh05	105	45	0.00e+00		Te25	125	52	4.45e-09
Pd04	104	46	2.06e-09		Te26	126	52	1.28e-08
Pd05	105	46	3.44e-09		Te27	127	52	0.00e+00
Pd06	106	46	4.66e-09		Te28	128	52	1.92e-08
Pd07	107	46	1.08e-10		Te30	130	52	2.07e-08
Pd08	108	46	4.69e-09		I127	127	53	1.26e-08
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	1.86e-09		I129	129	53	6.74e-12
Ag07	107	47	2.65e-09		I130	130	53	0.00e+00
Ag09	109	47	2.70e-09		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	1.74e-10		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	2.08e-09
Cd10	110	48	2.64e-09		Xe29	129	54	1.87e-08
Cd11	111	48	2.38e-09		Xe30	130	54	4.19e-09
Cd12	112	48	4.89e-09		Xe31	131	54	1.53e-08
Cd13	113	48	2.34e-09		Xe32	132	54	2.06e-08
Cd14	114	48	6.10e-09		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	7.30e-09
Cd16	116	48	1.56e-09		Xe35	135	54	0.00e+00
In13	113	49	8.66e-11		Xe36	136	54	5.67e-09
In15	115	49	2.16e-09		Cs33	133	55	5.03e-09
Sn14	114	50	2.75e-10		Cs34	134	55	0.00e+00
Sn15	115	50	1.42e-10		Cs35	135	55	2.29e-10
Sn16	116	50	7.44e-09		Cs36	136	55	0.00e+00
Sn17	117	50	3.70e-09		Cs37	137	55	5.91e-13

Ba34	134	56	2.09e-09		Sm51	151	62	0.00e+00
Ba35	135	56	4.09e-09		Sm52	152	62	1.20e-09
Ba36	136	56	6.75e-09		Sm53	153	62	0.00e+00
Ba37	137	56	8.91e-09		Sm54	154	62	9.62e-10
Ba38	138	56	6.76e-08		Eu51	151	63	6.93e-10
Ba39	139	56	0.00e+00		Eu52	152	63	0.00e+00
Ba40	140	56	0.00e+00		Eu53	153	63	7.76e-10
La39	139	57	8.82e-09		Eu54	154	63	0.00e+00
La40	140	57	0.00e+00		Eu55	155	63	0.00e+00
Ce40	140	58	2.17e-08		Eu56	156	63	0.00e+00
Ce41	141	58	0.00e+00		Eu57	157	63	0.00e+00
Ce42	142	58	2.43e-09		Gd52	152	64	2.14e-11
Ce43	143	58	0.00e+00		Gd53	153	64	0.00e+00
Ce44	144	58	0.00e+00		Gd54	154	64	1.65e-10
Pr41	141	59	3.24e-09		Gd55	155	64	7.88e-10
Pr42	142	59	0.00e+00		Gd56	156	64	1.19e-09
Pr43	143	59	0.00e+00		Gd57	157	64	8.62e-10
Pr45	145	59	0.00e+00		Gd58	158	64	1.54e-09
Nd42	142	60	4.81e-09		Gd59	159	64	0.00e+00
Nd43	143	60	1.75e-09		Gd60	160	64	1.19e-09
Nd44	144	60	3.86e-09		Tb59	159	65	9.72e-10
Nd45	145	60	1.18e-09		Tb60	160	65	0.00e+00
Nd46	146	60	2.98e-09		Tb61	161	65	0.00e+00
Nd47	147	60	0.00e+00		Dy60	160	66	2.37e-10
Nd48	148	60	8.75e-10		Dy61	161	66	1.20e-09
Nd49	149	60	0.00e+00		Dy62	162	66	1.78e-09
Nd50	150	60	6.91e-10		Dy63	163	66	1.59e-09
Pm45	145	61	0.00e+00		Dy64	164	66	2.06e-09
Pm46	146	61	0.00e+00		Dy65	165	66	0.00e+00
Pm47	147	61	0.00e+00		Dy66	166	66	0.00e+00
Pm48	148	61	0.00e+00		Ho63	163	67	5.24e-12
Pm49	149	61	0.00e+00		Ho64	164	67	0.00e+00
Pm50	150	61	0.00e+00		Ho65	165	67	1.51e-09
Pm51	151	61	0.00e+00		Ho66	166	67	0.00e+00
Sm44	144	62	1.12e-10		Er64	164	68	1.04e-10
Sm45	145	62	0.00e+00		Er65	165	68	0.00e+00
Sm46	146	62	0.00e+00		Er66	166	68	1.54e-09
Sm47	147	62	6.67e-10		Er67	167	68	1.02e-09
Sm48	148	62	6.40e-10		Er68	168	68	1.38e-09
Sm49	149	62	5.61e-10		Er69	169	68	0.00e+00
Sm50	150	62	4.86e-10		Er70	170	68	7.54e-10

Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	4.32e-10
Tm69	169	69	6.62e-10		Re86	186	75	0.00e+00
Tm70	170	69	0.00e+00		Re87	187	75	6.28e-10
Tm71	171	69	0.00e+00		Re88	188	75	0.00e+00
Tm72	172	69	0.00e+00		Re89	189	75	0.00e+00
Tm73	173	69	0.00e+00		Os86	186	76	3.01e-10
Yb70	170	70	1.94e-10		Os87	187	76	2.51e-10
Yb71	171	70	7.10e-10		Os88	188	76	1.95e-09
Yb72	172	70	1.16e-09		Os89	189	76	2.07e-09
Yb73	173	70	8.01e-10		Os90	190	76	3.66e-09
Yb74	174	70	1.90e-09		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	5.40e-09
Yb76	176	70	6.67e-10		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	6.63e-10		Ir91	191	77	4.52e-09
Lu76	176	71	2.91e-11		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	7.68e-09
Hf76	176	72	2.51e-10		Ir94	194	77	0.00e+00
Hf77	177	72	6.07e-10		Ir95	195	77	0.00e+00
Hf78	178	72	1.09e-09		Pt92	192	78	3.38e-10
Hf79	179	72	5.03e-10		Pt93	193	78	0.00e+00
Hf80	180	72	1.58e-09		Pt94	194	78	8.92e-09
Hf81	181	72	0.00e+00		Pt95	195	78	8.83e-09
Hf82	182	72	4.04e-11		Pt96	196	78	7.11e-09
Hf83	183	72	0.00e+00		Pt97	197	78	0.00e+00
Hf84	184	72	0.00e+00		Pt98	198	78	1.93e-09
Ta79	179	73	0.00e+00		Au97	197	79	3.90e-09
Ta80	180	73	1.07e-13		Au98	198	79	0.00e+00
Ta81	181	73	4.84e-10		Au99	199	79	0.00e+00
Ta82	182	73	0.00e+00		Hg98	198	80	1.25e-09
Ta83	183	73	0.00e+00		Hg99	199	80	1.58e-09
Ta84	184	73	0.00e+00		Hg00	200	80	2.56e-09
W180	180	74	2.70e-12		Hg01	201	80	1.37e-09
W181	181	74	0.00e+00		Hg02	202	80	3.63e-09
W182	182	74	7.95e-10		Hg03	203	80	0.00e+00
W183	183	74	4.73e-10		Hg04	204	80	6.19e-10
W184	184	74	1.07e-09		Tl03	203	81	1.65e-09
W185	185	74	0.00e+00		Tl04	204	81	0.00e+00
W186	186	74	8.59e-10		Tl05	205	81	3.39e-09
W187	187	74	0.00e+00		Pb04	204	82	1.94e-09

Isotope	A	Z	YIELD
Pb05	205	82	1.01e-10
Pb06	206	82	1.67e-08
Pb07	207	82	1.78e-08
Pb08	208	82	4.56e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	2.93e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: (M_α = 6.00; Z = 0.014000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [M_α]
H	1	1	3.27e+00
He4	4	2	1.71e+00
C12	12	6	7.49e-03
C13	13	6	3.25e-04
C14	14	6	5.63e-08
N14	14	7	1.32e-02
N15	15	7	5.97e-06
O16	16	8	2.65e-02
O17	17	8	6.93e-05
O18	18	8	4.15e-05
F18	18	9	0.00e+00
F19	19	9	1.85e-06
Ne20	20	10	5.39e-03
Ne21	21	10	2.43e-05
Ne22	22	10	4.16e-04
Na22	22	11	0.00e+00
Na23	23	11	2.81e-04
Na24	24	11	0.00e+00
Mg24	24	12	2.69e-03
Mg25	25	12	3.22e-04
Mg26	26	12	4.47e-04
Al26	26	13	7.53e-07
Al27	27	13	3.10e-04
Si28	28	14	3.51e-03

Isotope	A	Z	YIELD
Si29	29	14	1.85e-04
Si30	30	14	1.26e-04
Si31	31	14	0.00e+00
Si32	32	14	0.00e+00
P31	31	15	3.28e-05
P32	32	15	0.00e+00
P33	33	15	0.00e+00
S32	32	16	1.84e-03
S33	33	16	1.50e-05
S34	34	16	8.71e-05
S35	35	16	0.00e+00
S36	36	16	3.77e-07
Cl35	35	17	1.89e-05
Cl36	36	17	4.19e-09
Cl37	37	17	6.51e-06
Ar36	36	18	4.23e-04
Ar37	37	18	0.00e+00
Ar38	38	18	8.13e-05
Ar39	39	18	4.77e-11
Ar40	40	18	1.41e-07
Ar41	41	18	0.00e+00
Ar42	42	18	0.00e+00
K39	39	19	1.75e-05
K40	40	19	2.77e-08
K41	41	19	1.35e-06
K42	42	19	0.00e+00
K43	43	19	0.00e+00
Ca40	40	20	3.17e-04
Ca41	41	20	1.79e-08
Ca42	42	20	2.23e-06
Ca43	43	20	4.76e-07
Ca44	44	20	7.51e-06
Ca45	45	20	0.00e+00
Ca46	46	20	1.54e-08
Ca47	47	20	0.00e+00
Ca48	48	20	7.35e-07
Sc45	45	21	2.09e-07
Sc46	46	21	0.00e+00
Sc47	47	21	0.00e+00
Sc48	48	21	0.00e+00
Sc49	49	21	0.00e+00

Ti46	46	22	1.24e-06
Ti47	47	22	1.14e-06
Ti48	48	22	1.15e-05
Ti49	49	22	8.74e-07
Ti50	50	22	8.51e-07
V50	50	23	4.88e-09
V51	51	23	2.00e-06
Cr50	50	24	3.88e-06
Cr51	51	24	0.00e+00
Cr52	52	24	7.80e-05
Cr53	53	24	9.00e-06
Cr54	54	24	2.33e-06
Mn55	55	25	6.84e-05
Mn56	56	25	0.00e+00
Fe54	54	26	3.73e-04
Fe55	55	26	2.75e-12
Fe56	56	26	6.08e-03
Fe57	57	26	1.44e-04
Fe58	58	26	2.04e-05
Fe59	59	26	0.00e+00
Fe60	60	26	3.63e-08
Co59	59	27	1.82e-05
Co60	60	27	1.10e-13
Ni58	58	28	2.56e-04
Ni59	59	28	7.88e-08
Ni60	60	28	1.02e-04
Ni61	61	28	4.63e-06
Ni62	62	28	1.47e-05
Ni63	63	28	5.63e-11
Ni64	64	28	3.89e-06
Ni65	65	28	0.00e+00
Ni66	66	28	0.00e+00
Cu63	63	29	3.16e-06
Cu64	64	29	0.00e+00
Cu65	65	29	1.45e-06
Cu66	66	29	0.00e+00
Cu67	67	29	0.00e+00
Zn64	64	30	5.32e-06
Zn65	65	30	0.00e+00
Zn66	66	30	3.16e-06
Zn67	67	30	4.73e-07

Zn68	68	30	2.19e-06
Zn69	69	30	0.00e+00
Zn70	70	30	7.42e-08
Ga69	69	31	2.07e-07
Ga70	70	31	0.00e+00
Ga71	71	31	1.41e-07
Ga72	72	31	0.00e+00
Ga73	73	31	0.00e+00
Ge70	70	32	2.46e-07
Ge71	71	32	0.00e+00
Ge72	72	32	3.28e-07
Ge73	73	32	9.28e-08
Ge74	74	32	4.40e-07
Ge75	75	32	0.00e+00
Ge76	76	32	9.23e-08
Ge77	77	32	0.00e+00
As75	75	33	6.17e-08
As76	76	33	0.00e+00
As77	77	33	0.00e+00
Se76	76	34	6.62e-08
Se77	77	34	5.37e-08
Se78	78	34	1.72e-07
Se79	79	34	5.60e-10
Se80	80	34	3.68e-07
Se81	81	34	0.00e+00
Se82	82	34	6.19e-08
Br79	79	35	6.13e-08
Br80	80	35	0.00e+00
Br81	81	35	6.23e-08
Br82	82	35	0.00e+00
Br83	83	35	0.00e+00
Br84	84	35	0.00e+00
Kr80	80	36	1.45e-08
Kr81	81	36	1.06e-10
Kr82	82	36	7.34e-08
Kr83	83	36	7.19e-08
Kr84	84	36	3.61e-07
Kr85	85	36	0.00e+00
Kr86	86	36	1.20e-07
Kr87	87	36	0.00e+00
Kr88	88	36	0.00e+00

Rb85	85	37	5.63e-08		Ru96	96	44	1.31e-09
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	2.45e-08		Ru98	98	44	4.52e-10
Rb88	88	37	0.00e+00		Ru99	99	44	3.12e-09
Sr86	86	38	2.85e-08		Ru00	100	44	3.50e-09
Sr87	87	38	2.13e-08		Ru01	101	44	4.29e-09
Sr88	88	38	2.52e-07		Ru02	102	44	8.52e-09
Sr89	89	38	0.00e+00		Ru03	103	44	0.00e+00
Sr90	90	38	0.00e+00		Ru04	104	44	4.82e-09
Sr91	91	38	0.00e+00		Ru05	105	44	0.00e+00
Sr92	92	38	0.00e+00		Ru06	106	44	0.00e+00
Y89	89	39	6.08e-08		Rh03	103	45	5.14e-09
Y90	90	39	0.00e+00		Rh05	105	45	0.00e+00
Y91	91	39	0.00e+00		Pd04	104	46	2.62e-09
Y92	92	39	0.00e+00		Pd05	105	46	4.67e-09
Y93	93	39	0.00e+00		Pd06	106	46	6.13e-09
Zr90	90	40	7.75e-08		Pd07	107	46	9.21e-11
Zr91	91	40	1.75e-08		Pd08	108	46	6.09e-09
Zr92	92	40	2.70e-08		Pd09	109	46	0.00e+00
Zr93	93	40	9.40e-10		Pd10	110	46	2.50e-09
Zr94	94	40	2.85e-08		Ag07	107	47	3.65e-09
Zr95	95	40	0.00e+00		Ag09	109	47	3.60e-09
Zr96	96	40	4.78e-09		Ag11	111	47	0.00e+00
Zr97	97	40	0.00e+00		Cd08	108	48	2.45e-10
Nb93	93	41	9.54e-09		Cd09	109	48	0.00e+00
Nb94	94	41	0.00e+00		Cd10	110	48	3.34e-09
Nb95	95	41	0.00e+00		Cd11	111	48	3.17e-09
Nb96	96	41	0.00e+00		Cd12	112	48	6.31e-09
Nb97	97	41	0.00e+00		Cd13	113	48	3.10e-09
Mo92	92	42	5.21e-09		Cd14	114	48	7.77e-09
Mo93	93	42	0.00e+00		Cd15	115	48	0.00e+00
Mo94	94	42	3.38e-09		Cd16	116	48	1.99e-09
Mo95	95	42	6.19e-09		In13	113	49	1.20e-10
Mo96	96	42	6.77e-09		In15	115	49	2.85e-09
Mo97	97	42	3.78e-09		Sn14	114	50	3.80e-10
Mo98	98	42	9.84e-09		Sn15	115	50	1.97e-10
Mo99	99	42	0.00e+00		Sn16	116	50	9.44e-09
Mo00	100	42	3.72e-09		Sn17	117	50	4.82e-09
Tc97	97	43	3.41e-12		Sn18	118	50	1.59e-08
Tc98	98	43	0.00e+00		Sn19	119	50	5.59e-09
Tc99	99	43	1.00e-10		Sn20	120	50	2.21e-08

Sn21	121	50	0.00e+00
Sn22	122	50	3.08e-09
Sn23	123	50	0.00e+00
Sn24	124	50	3.62e-09
Sb21	121	51	3.28e-09
Sb22	122	51	0.00e+00
Sb23	123	51	2.40e-09
Sb24	124	51	0.00e+00
Sb25	125	51	0.00e+00
Te22	122	52	2.34e-09
Te23	123	52	8.18e-10
Te24	124	52	4.43e-09
Te25	125	52	5.94e-09
Te26	126	52	1.65e-08
Te27	127	52	0.00e+00
Te28	128	52	2.64e-08
Te30	130	52	2.86e-08
I127	127	53	1.72e-08
I128	128	53	0.00e+00
I129	129	53	4.33e-12
I130	130	53	0.00e+00
I131	131	53	0.00e+00
I132	132	53	0.00e+00
I133	133	53	0.00e+00
Xe28	128	54	2.55e-09
Xe29	129	54	2.57e-08
Xe30	130	54	5.09e-09
Xe31	131	54	2.08e-08
Xe32	132	54	2.69e-08
Xe33	133	54	0.00e+00
Xe34	134	54	9.63e-09
Xe35	135	54	0.00e+00
Xe36	136	54	7.81e-09
Cs33	133	55	6.72e-09
Cs34	134	55	0.00e+00
Cs35	135	55	1.32e-10
Cs36	136	55	0.00e+00
Cs37	137	55	0.00e+00
Ba34	134	56	2.43e-09
Ba35	135	56	5.49e-09
Ba36	136	56	7.78e-09

Ba37	137	56	1.05e-08
Ba38	138	56	7.08e-08
Ba39	139	56	0.00e+00
Ba40	140	56	0.00e+00
La39	139	57	9.44e-09
La40	140	57	0.00e+00
Ce40	140	58	2.25e-08
Ce41	141	58	0.00e+00
Ce42	142	58	2.67e-09
Ce43	143	58	0.00e+00
Ce44	144	58	0.00e+00
Pr41	141	59	3.62e-09
Pr42	142	59	0.00e+00
Pr43	143	59	0.00e+00
Pr45	145	59	0.00e+00
Nd42	142	60	4.94e-09
Nd43	143	60	2.07e-09
Nd44	144	60	4.21e-09
Nd45	145	60	1.42e-09
Nd46	146	60	3.13e-09
Nd47	147	60	0.00e+00
Nd48	148	60	1.01e-09
Nd49	149	60	0.00e+00
Nd50	150	60	9.48e-10
Pm45	145	61	0.00e+00
Pm46	146	61	0.00e+00
Pm47	147	61	0.00e+00
Pm48	148	61	0.00e+00
Pm49	149	61	0.00e+00
Pm50	150	61	0.00e+00
Pm51	151	61	0.00e+00
Sm44	144	62	1.54e-10
Sm45	145	62	0.00e+00
Sm46	146	62	0.00e+00
Sm47	147	62	7.96e-10
Sm48	148	62	6.55e-10
Sm49	149	62	7.20e-10
Sm50	150	62	4.60e-10
Sm51	151	62	0.00e+00
Sm52	152	62	1.46e-09
Sm53	153	62	0.00e+00

Sm54	154	62	1.24e-09		Tm70	170	69	0.00e+00
Eu51	151	63	9.22e-10		Tm71	171	69	0.00e+00
Eu52	152	63	0.00e+00		Tm72	172	69	0.00e+00
Eu53	153	63	1.03e-09		Tm73	173	69	0.00e+00
Eu54	154	63	0.00e+00		Yb70	170	70	2.07e-10
Eu55	155	63	0.00e+00		Yb71	171	70	8.59e-10
Eu56	156	63	0.00e+00		Yb72	172	70	1.35e-09
Eu57	157	63	0.00e+00		Yb73	173	70	9.79e-10
Gd52	152	64	2.95e-11		Yb74	174	70	2.04e-09
Gd53	153	64	0.00e+00		Yb75	175	70	0.00e+00
Gd54	154	64	1.86e-10		Yb76	176	70	7.93e-10
Gd55	155	64	1.03e-09		Yb77	177	70	0.00e+00
Gd56	156	64	1.49e-09		Lu75	175	71	8.33e-10
Gd57	157	64	1.12e-09		Lu76	176	71	2.65e-11
Gd58	158	64	1.85e-09		Lu77	177	71	0.00e+00
Gd59	159	64	0.00e+00		Hf76	176	72	2.47e-10
Gd60	160	64	1.58e-09		Hf77	177	72	7.67e-10
Tb59	159	65	1.27e-09		Hf78	178	72	1.20e-09
Tb60	160	65	0.00e+00		Hf79	179	72	5.87e-10
Tb61	161	65	0.00e+00		Hf80	180	72	1.60e-09
Dy60	160	66	2.40e-10		Hf81	181	72	0.00e+00
Dy61	161	66	1.60e-09		Hf82	182	72	9.98e-12
Dy62	162	66	2.26e-09		Hf83	183	72	0.00e+00
Dy63	163	66	2.13e-09		Hf84	184	72	0.00e+00
Dy64	164	66	2.55e-09		Ta79	179	73	0.00e+00
Dy65	165	66	0.00e+00		Ta80	180	73	0.00e+00
Dy66	166	66	0.00e+00		Ta81	181	73	5.40e-10
Ho63	163	67	1.52e-12		Ta82	182	73	0.00e+00
Ho64	164	67	0.00e+00		Ta83	183	73	0.00e+00
Ho65	165	67	2.00e-09		Ta84	184	73	0.00e+00
Ho66	166	67	0.00e+00		W180	180	74	3.73e-12
Er64	164	68	1.09e-10		W181	181	74	0.00e+00
Er65	165	68	0.00e+00		W182	182	74	8.95e-10
Er66	166	68	1.99e-09		W183	183	74	4.95e-10
Er67	167	68	1.34e-09		W184	184	74	1.08e-09
Er68	168	68	1.66e-09		W185	185	74	0.00e+00
Er69	169	68	0.00e+00		W186	186	74	9.72e-10
Er70	170	68	9.14e-10		W187	187	74	0.00e+00
Er71	171	68	0.00e+00		W188	188	74	0.00e+00
Er72	172	68	0.00e+00		Re85	185	75	5.09e-10
Tm69	169	69	8.59e-10		Re86	186	75	0.00e+00

Isotope	A	Z	YIELD
Re87	187	75	8.11e-10
Re88	188	75	0.00e+00
Re89	189	75	0.00e+00
Os86	186	76	3.03e-10
Os87	187	76	3.12e-10
Os88	188	76	2.37e-09
Os89	189	76	2.78e-09
Os90	190	76	4.71e-09
Os91	191	76	0.00e+00
Os92	192	76	7.24e-09
Os93	193	76	0.00e+00
Os94	194	76	0.00e+00
Ir91	191	77	6.15e-09
Ir92	192	77	0.00e+00
Ir93	193	77	1.05e-08
Ir94	194	77	0.00e+00
Ir95	195	77	0.00e+00
Pt92	192	78	3.98e-10
Pt93	193	78	0.00e+00
Pt94	194	78	1.19e-08
Pt95	195	78	1.20e-08
Pt96	196	78	9.30e-09
Pt97	197	78	0.00e+00
Pt98	198	78	2.60e-09
Au97	197	79	5.23e-09
Au98	198	79	0.00e+00
Au99	199	79	0.00e+00
Hg98	198	80	1.28e-09
Hg99	199	80	1.95e-09
Hg00	200	80	2.79e-09
Hg01	201	80	1.57e-09
Hg02	202	80	3.68e-09
Hg03	203	80	0.00e+00
Hg04	204	80	8.00e-10
Tl03	203	81	1.64e-09
Tl04	204	81	0.00e+00
Tl05	205	81	3.81e-09
Pb04	204	82	1.92e-09
Pb05	205	82	1.84e-11
Pb06	206	82	1.77e-08
Pb07	207	82	1.94e-08

Isotope	A	Z	YIELD
Pb08	208	82	5.46e-08
Pb09	209	82	0.00e+00
Pb10	210	82	0.00e+00
Bi09	209	83	3.93e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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Model Parameters: ($M_\odot$ = 6.00; Z = 0.020000; IRV = 00 ^{13}C Pocket = STANDARD)

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Isotope	A	Z	YIELD [$M_\odot$]
H	1	1	3.27e+00
He4	4	2	1.71e+00
C12	12	6	9.94e-03
C13	13	6	4.75e-04
C14	14	6	4.07e-08
N14	14	7	1.92e-02
N15	15	7	8.90e-06
O16	16	8	3.86e-02
O17	17	8	9.64e-05
O18	18	8	6.13e-05
F18	18	9	0.00e+00
F19	19	9	2.70e-06
Ne20	20	10	7.86e-03
Ne21	21	10	3.28e-05
Ne22	22	10	5.70e-04
Na22	22	11	0.00e+00
Na23	23	11	4.02e-04
Na24	24	11	0.00e+00
Mg24	24	12	3.93e-03
Mg25	25	12	4.72e-04
Mg26	26	12	6.45e-04
Al26	26	13	8.26e-07
Al27	27	13	4.48e-04
Si28	28	14	5.11e-03
Si29	29	14	2.69e-04
Si30	30	14	1.84e-04
Si31	31	14	0.00e+00

Si32	32	14	0.00e+00	Ti49	49	22	1.27e-06
P31	31	15	4.77e-05	Ti50	50	22	1.23e-06
P32	32	15	0.00e+00	V50	50	23	7.12e-09
P33	33	15	0.00e+00	V51	51	23	2.91e-06
S32	32	16	2.69e-03	Cr50	50	24	5.66e-06
S33	33	16	2.19e-05	Cr51	51	24	0.00e+00
S34	34	16	1.27e-04	Cr52	52	24	1.14e-04
S35	35	16	0.00e+00	Cr53	53	24	1.31e-05
S36	36	16	5.45e-07	Cr54	54	24	3.36e-06
Cl35	35	17	2.76e-05	Mn55	55	25	9.96e-05
Cl36	36	17	3.48e-09	Mn56	56	25	0.00e+00
Cl37	37	17	9.41e-06	Fe54	54	26	5.44e-04
Ar36	36	18	6.17e-04	Fe55	55	26	2.68e-12
Ar37	37	18	0.00e+00	Fe56	56	26	8.86e-03
Ar38	38	18	1.18e-04	Fe57	57	26	2.09e-04
Ar39	39	18	2.06e-11	Fe58	58	26	2.88e-05
Ar40	40	18	2.03e-07	Fe59	59	26	0.00e+00
Ar41	41	18	0.00e+00	Fe60	60	26	5.53e-09
Ar42	42	18	0.00e+00	Co59	59	27	2.63e-05
K39	39	19	2.56e-05	Co60	60	27	0.00e+00
K40	40	19	3.66e-08	Ni58	58	28	3.74e-04
K41	41	19	1.96e-06	Ni59	59	28	7.08e-08
K42	42	19	0.00e+00	Ni60	60	28	1.49e-04
K43	43	19	0.00e+00	Ni61	61	28	6.66e-06
Ca40	40	20	4.63e-04	Ni62	62	28	2.14e-05
Ca41	41	20	1.47e-08	Ni63	63	28	1.50e-11
Ca42	42	20	3.25e-06	Ni64	64	28	5.64e-06
Ca43	43	20	6.93e-07	Ni65	65	28	0.00e+00
Ca44	44	20	1.10e-05	Ni66	66	28	0.00e+00
Ca45	45	20	0.00e+00	Cu63	63	29	4.56e-06
Ca46	46	20	2.21e-08	Cu64	64	29	0.00e+00
Ca47	47	20	0.00e+00	Cu65	65	29	2.10e-06
Ca48	48	20	1.07e-06	Cu66	66	29	0.00e+00
Sc45	45	21	3.03e-07	Cu67	67	29	0.00e+00
Sc46	46	21	0.00e+00	Zn64	64	30	7.76e-06
Sc47	47	21	0.00e+00	Zn65	65	30	0.00e+00
Sc48	48	21	0.00e+00	Zn66	66	30	4.60e-06
Sc49	49	21	0.00e+00	Zn67	67	30	6.87e-07
Ti46	46	22	1.80e-06	Zn68	68	30	3.19e-06
Ti47	47	22	1.66e-06	Zn69	69	30	0.00e+00
Ti48	48	22	1.68e-05	Zn70	70	30	1.08e-07

Ga69	69	31	3.00e-07		Rb88	88	37	0.00e+00
Ga70	70	31	0.00e+00		Sr86	86	38	4.13e-08
Ga71	71	31	2.05e-07		Sr87	87	38	3.11e-08
Ga72	72	31	0.00e+00		Sr88	88	38	3.58e-07
Ga73	73	31	0.00e+00		Sr89	89	38	0.00e+00
Ge70	70	32	3.56e-07		Sr90	90	38	0.00e+00
Ge71	71	32	0.00e+00		Sr91	91	38	0.00e+00
Ge72	72	32	4.77e-07		Sr92	92	38	0.00e+00
Ge73	73	32	1.35e-07		Y89	89	39	8.58e-08
Ge74	74	32	6.38e-07		Y90	90	39	0.00e+00
Ge75	75	32	0.00e+00		Y91	91	39	0.00e+00
Ge76	76	32	1.35e-07		Y92	92	39	0.00e+00
Ge77	77	32	0.00e+00		Y93	93	39	0.00e+00
As75	75	33	8.99e-08		Zr90	90	40	1.10e-07
As76	76	33	0.00e+00		Zr91	91	40	2.46e-08
As77	77	33	0.00e+00		Zr92	92	40	3.79e-08
Se76	76	34	9.58e-08		Zr93	93	40	7.61e-10
Se77	77	34	7.82e-08		Zr94	94	40	3.96e-08
Se78	78	34	2.49e-07		Zr95	95	40	0.00e+00
Se79	79	34	5.69e-10		Zr96	96	40	6.32e-09
Se80	80	34	5.35e-07		Zr97	97	40	0.00e+00
Se81	81	34	0.00e+00		Nb93	93	41	1.39e-08
Se82	82	34	9.02e-08		Nb94	94	41	0.00e+00
Br79	79	35	8.97e-08		Nb95	95	41	0.00e+00
Br80	80	35	0.00e+00		Nb96	96	41	0.00e+00
Br81	81	35	9.06e-08		Nb97	97	41	0.00e+00
Br82	82	35	0.00e+00		Mo92	92	42	7.60e-09
Br83	83	35	0.00e+00		Mo93	93	42	0.00e+00
Br84	84	35	0.00e+00		Mo94	94	42	4.90e-09
Kr80	80	36	2.09e-08		Mo95	95	42	8.73e-09
Kr81	81	36	1.13e-10		Mo96	96	42	9.47e-09
Kr82	82	36	1.06e-07		Mo97	97	42	5.35e-09
Kr83	83	36	1.05e-07		Mo98	98	42	1.38e-08
Kr84	84	36	5.25e-07		Mo99	99	42	0.00e+00
Kr85	85	36	0.00e+00		Mo00	100	42	5.39e-09
Kr86	86	36	1.68e-07		Tc97	97	43	2.91e-12
Kr87	87	36	0.00e+00		Tc98	98	43	0.00e+00
Kr88	88	36	0.00e+00		Tc99	99	43	8.06e-11
Rb85	85	37	8.14e-08		Ru96	96	44	1.91e-09
Rb86	86	37	0.00e+00		Ru97	97	44	0.00e+00
Rb87	87	37	3.34e-08		Ru98	98	44	6.59e-10

Ru99	99	44	4.55e-09		Sn24	124	50	5.28e-09
Ru00	100	44	4.86e-09		Sb21	121	51	4.64e-09
Ru01	101	44	6.23e-09		Sb22	122	51	0.00e+00
Ru02	102	44	1.21e-08		Sb23	123	51	3.46e-09
Ru03	103	44	0.00e+00		Sb24	124	51	0.00e+00
Ru04	104	44	6.99e-09		Sb25	125	51	0.00e+00
Ru05	105	44	0.00e+00		Te22	122	52	3.18e-09
Ru06	106	44	0.00e+00		Te23	123	52	1.12e-09
Rh03	103	45	7.45e-09		Te24	124	52	5.99e-09
Rh05	105	45	0.00e+00		Te25	125	52	8.53e-09
Pd04	104	46	3.61e-09		Te26	126	52	2.32e-08
Pd05	105	46	6.79e-09		Te27	127	52	0.00e+00
Pd06	106	46	8.67e-09		Te28	128	52	3.85e-08
Pd07	107	46	7.35e-11		Te30	130	52	4.16e-08
Pd08	108	46	8.58e-09		I127	127	53	2.51e-08
Pd09	109	46	0.00e+00		I128	128	53	0.00e+00
Pd10	110	46	3.61e-09		I129	129	53	2.32e-12
Ag07	107	47	5.34e-09		I130	130	53	0.00e+00
Ag09	109	47	5.17e-09		I131	131	53	0.00e+00
Ag11	111	47	0.00e+00		I132	132	53	0.00e+00
Cd08	108	48	3.35e-10		I133	133	53	0.00e+00
Cd09	109	48	0.00e+00		Xe28	128	54	3.36e-09
Cd10	110	48	4.61e-09		Xe29	129	54	3.75e-08
Cd11	111	48	4.54e-09		Xe30	130	54	6.68e-09
Cd12	112	48	8.85e-09		Xe31	131	54	3.03e-08
Cd13	113	48	4.43e-09		Xe32	132	54	3.79e-08
Cd14	114	48	1.08e-08		Xe33	133	54	0.00e+00
Cd15	115	48	0.00e+00		Xe34	134	54	1.38e-08
Cd16	116	48	2.77e-09		Xe35	135	54	0.00e+00
In13	113	49	1.74e-10		Xe36	136	54	1.14e-08
In15	115	49	4.06e-09		Cs33	133	55	9.64e-09
Sn14	114	50	5.53e-10		Cs34	134	55	0.00e+00
Sn15	115	50	2.87e-10		Cs35	135	55	5.37e-11
Sn16	116	50	1.31e-08		Cs36	136	55	0.00e+00
Sn17	117	50	6.80e-09		Cs37	137	55	0.00e+00
Sn18	118	50	2.20e-08		Ba34	134	56	3.14e-09
Sn19	119	50	7.80e-09		Ba35	135	56	7.91e-09
Sn20	120	50	3.02e-08		Ba36	136	56	1.01e-08
Sn21	121	50	0.00e+00		Ba37	137	56	1.41e-08
Sn22	122	50	4.21e-09		Ba38	138	56	9.09e-08
Sn23	123	50	0.00e+00		Ba39	139	56	0.00e+00

Ba40	140	56	0.00e+00
La39	139	57	1.23e-08
La40	140	57	0.00e+00
Ce40	140	58	2.95e-08
Ce41	141	58	0.00e+00
Ce42	142	58	3.68e-09
Ce43	143	58	0.00e+00
Ce44	144	58	0.00e+00
Pr41	141	59	4.91e-09
Pr42	142	59	0.00e+00
Pr43	143	59	0.00e+00
Pr45	145	59	0.00e+00
Nd42	142	60	6.50e-09
Nd43	143	60	2.89e-09
Nd44	144	60	5.72e-09
Nd45	145	60	1.99e-09
Nd46	146	60	4.19e-09
Nd47	147	60	0.00e+00
Nd48	148	60	1.40e-09
Nd49	149	60	0.00e+00
Nd50	150	60	1.38e-09
Pm45	145	61	0.00e+00
Pm46	146	61	0.00e+00
Pm47	147	61	0.00e+00
Pm48	148	61	0.00e+00
Pm49	149	61	0.00e+00
Pm50	150	61	0.00e+00
Pm51	151	61	0.00e+00
Sm44	144	62	2.25e-10
Sm45	145	62	0.00e+00
Sm46	146	62	0.00e+00
Sm47	147	62	1.12e-09
Sm48	148	62	8.70e-10
Sm49	149	62	1.04e-09
Sm50	150	62	5.88e-10
Sm51	151	62	0.00e+00
Sm52	152	62	2.07e-09
Sm53	153	62	0.00e+00
Sm54	154	62	1.78e-09
Eu51	151	63	1.34e-09
Eu52	152	63	0.00e+00

Eu53	153	63	1.50e-09
Eu54	154	63	0.00e+00
Eu55	155	63	0.00e+00
Eu56	156	63	0.00e+00
Eu57	157	63	0.00e+00
Gd52	152	64	3.55e-11
Gd53	153	64	0.00e+00
Gd54	154	64	2.44e-10
Gd55	155	64	1.49e-09
Gd56	156	64	2.11e-09
Gd57	157	64	1.61e-09
Gd58	158	64	2.60e-09
Gd59	159	64	0.00e+00
Gd60	160	64	2.29e-09
Tb59	159	65	1.84e-09
Tb60	160	65	0.00e+00
Tb61	161	65	0.00e+00
Dy60	160	66	3.11e-10
Dy61	161	66	2.32e-09
Dy62	162	66	3.21e-09
Dy63	163	66	3.10e-09
Dy64	164	66	3.60e-09
Dy65	165	66	0.00e+00
Dy66	166	66	0.00e+00
Ho63	163	67	3.20e-13
Ho64	164	67	0.00e+00
Ho65	165	67	2.90e-09
Ho66	166	67	0.00e+00
Er64	164	68	1.44e-10
Er65	165	68	0.00e+00
Er66	166	68	2.86e-09
Er67	167	68	1.94e-09
Er68	168	68	2.33e-09
Er69	169	68	0.00e+00
Er70	170	68	1.29e-09
Er71	171	68	0.00e+00
Er72	172	68	0.00e+00
Tm69	169	69	1.24e-09
Tm70	170	69	0.00e+00
Tm71	171	69	0.00e+00
Tm72	172	69	0.00e+00

Tm73	173	69	0.00e+00		Os86	186	76	4.08e-10
Yb70	170	70	2.74e-10		Os87	187	76	4.52e-10
Yb71	171	70	1.22e-09		Os88	188	76	3.36e-09
Yb72	172	70	1.89e-09		Os89	189	76	4.06e-09
Yb73	173	70	1.39e-09		Os90	190	76	6.74e-09
Yb74	174	70	2.79e-09		Os91	191	76	0.00e+00
Yb75	175	70	0.00e+00		Os92	192	76	1.05e-08
Yb76	176	70	1.12e-09		Os93	193	76	0.00e+00
Yb77	177	70	0.00e+00		Os94	194	76	0.00e+00
Lu75	175	71	1.19e-09		Ir91	191	77	9.01e-09
Lu76	176	71	3.36e-11		Ir92	192	77	0.00e+00
Lu77	177	71	0.00e+00		Ir93	193	77	1.54e-08
Hf76	176	72	3.24e-10		Ir94	194	77	0.00e+00
Hf77	177	72	1.10e-09		Ir95	195	77	0.00e+00
Hf78	178	72	1.66e-09		Pt92	192	78	5.02e-10
Hf79	179	72	8.23e-10		Pt93	193	78	0.00e+00
Hf80	180	72	2.16e-09		Pt94	194	78	1.72e-08
Hf81	181	72	0.00e+00		Pt95	195	78	1.76e-08
Hf82	182	72	1.21e-12		Pt96	196	78	1.34e-08
Hf83	183	72	0.00e+00		Pt97	197	78	0.00e+00
Hf84	184	72	0.00e+00		Pt98	198	78	3.79e-09
Ta79	179	73	0.00e+00		Au97	197	79	7.59e-09
Ta80	180	73	0.00e+00		Au98	198	79	0.00e+00
Ta81	181	73	7.51e-10		Au99	199	79	0.00e+00
Ta82	182	73	0.00e+00		Hg98	198	80	1.71e-09
Ta83	183	73	0.00e+00		Hg99	199	80	2.78e-09
Ta84	184	73	0.00e+00		Hg00	200	80	3.86e-09
W180	180	74	5.46e-12		Hg01	201	80	2.20e-09
W181	181	74	0.00e+00		Hg02	202	80	5.04e-09
W182	182	74	1.24e-09		Hg03	203	80	0.00e+00
W183	183	74	6.75e-10		Hg04	204	80	1.16e-09
W184	184	74	1.46e-09		Tl03	203	81	2.23e-09
W185	185	74	0.00e+00		Tl04	204	81	0.00e+00
W186	186	74	1.35e-09		Tl05	205	81	5.36e-09
W187	187	74	0.00e+00		Pb04	204	82	2.62e-09
W188	188	74	0.00e+00		Pb05	205	82	2.15e-12
Re85	185	75	7.18e-10		Pb06	206	82	2.49e-08
Re86	186	75	0.00e+00		Pb07	207	82	2.75e-08
Re87	187	75	1.17e-09		Pb08	208	82	7.85e-08
Re88	188	75	0.00e+00		Pb09	209	82	0.00e+00
Re89	189	75	0.00e+00		Pb10	210	82	0.00e+00

Bi09	209	83	5.72e-09
Bi10	210	83	0.00e+00
Po10	210	84	0.00e+00

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