

Lunar almanac for May 2018

DISTANCES of Moon's Center from Sun, and from Stars EAST of her.									
Star's Name	Date	Noon D.M.S.	IIIh D.M.S.	VIh D.M.S.	IXh D.M.S.	Midn/t D.M.S.	XVh D.M.S.	XVIIIh D.M.S.	XXIh D.M.S.
Altair	1	64.53.20	63.33.42	---	---	---	---	---	---
Fomalhaut	1	97.11.10	95.42.31	94.14.02	92.45.45	91.17.39	89.49.44	88.22.02	86.54.32
	2	85.27.14	84.00.09	82.33.17	81.06.38	79.40.12	78.14.00	76.48.01	75.22.16
	3	73.56.45	72.31.28	71.06.25	69.41.36	68.17.03	66.52.44	65.28.40	64.04.52
	4	62.41.19	61.18.03	59.55.03	58.32.20	57.09.55	55.47.47	54.25.59	53.04.30
	5	51.43.22	50.22.36	49.02.12	47.42.12	46.22.38	45.03.31	43.44.54	42.26.48
Sun	4	---	---	---	---	---	---	120.50.49	119.29.29
	5	118.08.13	116.46.58	115.25.46	114.04.36	112.43.26	111.22.18	110.01.09	108.40.00
	6	107.18.50	105.57.38	104.36.25	103.15.09	101.53.50	100.32.27	99.11.00	97.49.28
	7	96.27.51	95.06.09	93.44.19	92.22.23	91.00.19	89.38.07	88.15.46	86.53.16
	8	85.30.36	84.07.45	82.44.43	81.21.30	79.58.05	78.34.27	77.10.36	75.46.31
	9	74.22.12	72.57.39	71.32.50	70.07.45	68.42.24	67.16.46	65.50.52	64.24.39
	10	62.58.09	61.31.21	60.04.14	58.36.48	57.09.03	55.40.58	54.12.33	52.43.48
	11	51.14.43	49.45.18	48.15.32	46.45.25	45.14.58	43.44.11	42.13.03	40.41.35
	12	39.09.47	37.37.39	---	---	---	---	---	---
Markab	5	---	---	64.57.04	63.36.55	62.17.00	60.57.20	59.37.56	58.18.48
	6	56.59.57	55.41.25	54.23.12	53.05.19	51.47.49	50.30.42	49.14.01	47.57.48
	7	46.42.04	45.26.53	44.12.18	42.58.21	41.45.08	---	---	---
Hamal	6	---	---	---	---	---	---	---	88.58.58
	7	87.32.47	86.06.32	84.40.11	83.13.44	81.47.11	80.20.32	78.53.46	77.26.53
	8	75.59.52	74.32.44	73.05.28	71.38.04	70.10.32	68.42.51	67.15.02	65.47.05
	9	64.18.58	62.50.44	61.22.21	59.53.49	58.25.10	56.56.22	55.27.28	53.58.27
	10	52.29.20	---	---	---	---	---	---	---
Aldebaran	9	---	---	92.16.27	90.43.45	89.10.47	87.37.31	86.03.58	84.30.07
	10	82.55.57	81.21.28	79.46.40	78.11.32	76.36.04	75.00.16	73.24.06	71.47.36
	11	70.10.44	68.33.30	66.55.54	65.17.56	63.39.36	62.00.53	60.21.47	58.42.18
	12	57.02.26	55.22.12	53.41.34	52.00.33	---	---	---	---
Regulus	17	---	64.21.32	62.31.11	60.40.52	58.50.33	57.00.17	55.10.03	53.19.53
	18	51.29.48	49.39.48	47.49.53	46.00.06	44.10.25	42.20.53	40.31.29	38.42.14
	19	36.53.09	35.04.14	33.15.30	---	---	---	---	---
Spica	18	---	---	---	---	---	---	94.25.43	92.37.12
	19	90.48.50	89.00.38	87.12.36	85.24.45	83.37.06	81.49.39	80.02.24	78.15.22
	20	76.28.33	74.41.58	72.55.37	71.09.31	69.23.40	67.38.04	65.52.43	64.07.38
	21	62.22.49	60.38.17	58.54.01	57.10.02	55.26.21	53.42.57	51.59.51	50.17.03
	22	48.34.34	46.52.24	45.10.34	43.29.03	41.47.53	40.07.04	38.26.38	36.46.34
	23	35.06.55	33.27.41	31.48.54	---	---	---	---	---
Antares	23	80.57.04	79.16.42	77.36.35	75.56.43	74.17.06	72.37.44	70.58.37	69.19.45
	24	67.41.09	66.02.47	64.24.41	62.46.50	61.09.15	59.31.55	57.54.51	56.18.03
	25	54.41.32	53.05.17	51.29.19	49.53.38	48.18.14	46.43.09	45.08.22	43.33.54
	26	41.59.47	40.26.00	38.52.35	37.19.34	35.46.57	---	---	---
Altair	25	---	---	---	97.12.44	95.47.23	94.22.08	92.57.01	91.32.03
	26	90.07.14	88.42.35	87.18.08	85.53.52	84.29.49	83.06.00	81.42.25	80.19.05
	27	78.56.02	77.33.15	76.10.47	74.48.37	73.26.47	72.05.18	70.44.11	69.23.27
	28	68.03.08	66.43.14	65.23.46	64.04.47	62.46.17	---	---	---
Fomalhaut	27	---	---	---	---	---	---	103.37.55	102.09.20
	28	100.40.51	99.12.28	97.44.13	96.16.04	94.48.04	93.20.11	91.52.27	90.24.52
	29	88.57.25	87.30.08	86.03.01	84.36.03	83.09.15	81.42.37	80.16.11	78.49.55
	30	77.23.50	75.57.57	74.32.15	73.06.46	71.41.28	70.16.24	68.51.32	67.26.54
	31	66.02.30	64.38.20	63.14.24	61.50.44	60.27.19	59.04.11	57.41.20	56.18.46

Lunar almanac for May 2018

DISTANCES of Moon's Center from Sun, and from Stars WEST of her.									
Star's Name	Date	Noon D.M.S.	IIIh D.M.S.	VIh D.M.S.	IXh D.M.S.	Midn/t D.M.S.	XVh D.M.S.	XVIIIh D.M.S.	XXIh D.M.S.
Spica	1	34.46.54	36.18.45	37.50.32	39.22.13	40.53.48	42.25.16	43.56.37	45.27.50
	2	46.58.55	48.29.51	50.00.39	51.31.19	53.01.50	54.32.12	56.02.26	57.32.32
	3	59.02.29	60.32.17	62.01.58	63.31.31	65.00.56	---	---	---
Antares	2	---	---	---	---	---	---	---	14.04.56
	3	15.16.47	16.31.34	17.48.36	19.07.24	20.27.37	21.48.57	23.11.12	24.34.10
	4	25.57.44	27.21.48	28.46.16	30.11.06	31.36.12	33.01.34	34.27.08	35.52.53
	5	37.18.48	38.44.52	40.11.04	41.37.23	43.03.49	44.30.22	45.57.01	47.23.46
	6	48.50.37	50.17.34	51.44.38	53.11.48	54.39.05	56.06.29	57.34.00	59.01.38
	7	60.29.24	61.57.19	63.25.22	64.53.34	66.21.55	67.50.26	69.19.07	70.47.59
	8	72.17.02	73.46.17	75.15.44	76.45.23	78.15.15	79.45.21	81.15.40	82.46.14
	9	84.17.03	85.48.06	87.19.26	88.51.02	90.22.54	91.55.02	93.27.29	95.00.12
Altair	10	96.33.14	98.06.34	99.40.13	101.14.11	---	---	---	---
	10	---	55.00.19	56.17.40	57.35.52	58.54.53	60.14.40	61.35.13	62.56.30
Fomalhaut	11	64.18.28	65.41.08	67.04.26	68.28.22	69.52.56	71.18.04	---	---
	11	---	---	---	34.02.54	35.23.40	36.46.00	38.09.47	39.34.54
Sun	12	41.01.16	42.28.47	43.57.23	45.27.00	---	---	---	---
	17	---	---	---	---	---	---	37.49.05	39.31.07
	18	41.13.08	42.55.07	44.37.04	46.18.58	48.00.47	49.42.30	51.24.07	53.05.37
	19	54.47.00	56.28.14	58.09.19	59.50.14	61.31.00	63.11.34	64.51.57	66.32.09
	20	68.12.09	69.51.56	71.31.31	73.10.52	74.50.01	76.28.55	78.07.36	79.46.03
	21	81.24.16	83.02.15	84.39.59	86.17.28	87.54.43	89.31.44	91.08.29	92.45.00
	22	94.21.16	95.57.17	97.33.03	99.08.35	100.43.51	102.18.53	103.53.41	105.28.13
	23	107.02.31	108.36.35	110.10.24	111.43.59	113.17.19	114.50.25	116.23.17	117.55.55
Hamal	24	119.28.19	---	---	---	---	---	---	---
	17	---	49.32.38	51.16.35	53.00.51	54.45.22	56.30.07	58.15.02	60.00.06
Aldebaran	18	61.45.17	---	---	---	---	---	---	---
	18	---	30.31.47	32.21.40	34.11.27	36.01.07	37.50.40	39.40.06	41.29.22
	19	43.18.29	45.07.27	46.56.15	48.44.51	50.33.17	52.21.31	54.09.33	55.57.23
Pollux	20	57.45.00	59.32.24	61.19.34	63.06.31	64.53.15	66.39.44	---	---
	20	---	---	---	---	---	---	25.25.11	27.05.53
	21	28.46.56	30.28.15	32.09.44	33.51.20	35.32.59	37.14.40	38.56.19	40.37.54
	22	42.19.25	44.00.51	45.42.09	47.23.20	49.04.23	50.45.16	52.26.00	54.06.34
Regulus	23	55.46.57	57.27.10	59.07.12	60.47.02	62.26.42	64.06.09	---	---
	23	19.30.11	21.11.33	22.52.43	24.33.41	26.14.26	27.54.58	29.35.17	31.15.23
	24	32.55.17	34.34.58	36.14.25	37.53.40	39.32.43	41.11.32	42.50.09	44.28.34
	25	46.06.46	47.44.46	49.22.34	51.00.09	52.37.33	54.14.45	55.51.44	57.28.32
Spica	26	59.05.09	60.41.34	62.17.47	63.53.49	65.29.39	67.05.18	68.40.46	70.16.03
	26	---	---	---	---	---	14.49.37	16.14.44	17.41.24
	27	19.09.13	20.37.55	22.07.16	23.37.07	25.07.20	26.37.51	28.08.34	29.39.26
	28	31.10.24	32.41.26	34.12.30	35.43.34	37.14.38	38.45.40	40.16.39	41.47.35
	29	43.18.27	44.49.14	46.19.57	47.50.34	49.21.06	50.51.32	52.21.52	53.52.07
Antares	30	55.22.15	56.52.17	58.22.12	59.52.02	61.21.45	62.51.22	64.20.52	65.50.17
	30	---	13.30.33	14.40.57	15.54.38	17.10.52	18.29.05	19.48.52	21.09.54
	31	22.31.57	23.54.48	25.18.20	26.42.24	28.06.54	29.31.48	30.57.00	32.22.28

Lunar almanac for May 2018

DISTANCES of Moon's Center from Planets EAST of her.									
Star's Name	Date	Noon D.M.S.	IIIh D.M.S.	VIh D.M.S.	IXh D.M.S.	Midn/t D.M.S.	XVh D.M.S.	XVIIIh D.M.S.	XXIh D.M.S.
Mars	1	55.42.52	54.12.40	52.42.41	51.12.55	49.43.22	48.14.02	46.44.56	45.16.02
	2	43.47.21	42.18.52	40.50.36	39.22.32	37.54.40	36.27.01	34.59.33	33.32.16
	3	32.05.11	30.38.18	29.11.36	27.45.05	26.18.45	24.52.37	23.26.40	22.00.56
	4	20.35.23	19.10.03	---	---	---	---	---	---
Saturn	1	40.53.29	39.19.34	37.45.52	36.12.24	34.39.09	33.06.08	31.33.20	30.00.45
	2	28.28.24	26.56.15	25.24.19	23.52.37	22.21.08	20.49.51	19.18.49	---
Venus	7	---	---	---	---	119.46.05	118.25.49	117.05.23	115.44.48
	8	114.24.02	113.03.04	111.41.55	110.20.34	108.59.01	107.37.14	106.15.13	104.52.58
	9	103.30.28	102.07.43	100.44.42	99.21.25	97.57.51	96.33.59	95.09.50	93.45.23
	10	92.20.37	90.55.32	89.30.07	88.04.23	86.38.19	85.11.54	83.45.08	82.18.01
	11	80.50.33	79.22.43	77.54.31	76.25.57	74.57.01	73.27.42	71.58.01	70.27.57
	12	68.57.31	67.26.42	65.55.31	64.23.57	---	---	---	---
Jupiter	18	---	---	---	---	---	119.19.01	117.28.55	115.38.58
	19	113.49.09	111.59.30	110.10.01	108.20.42	106.31.35	104.42.38	102.53.54	101.05.22
	20	99.17.03	97.28.57	95.41.04	93.53.24	92.05.58	90.18.47	88.31.49	86.45.06
	21	84.58.38	83.12.24	81.26.26	79.40.42	77.55.13	76.09.59	74.25.01	72.40.18
	22	70.55.50	69.11.37	67.27.39	65.43.57	64.00.30	62.17.18	60.34.21	58.51.39
	23	57.09.13	55.27.02	53.45.06	52.03.24	50.21.58	48.40.47	46.59.51	45.19.10
	24	43.38.44	41.58.33	40.18.38	38.38.58	36.59.33	35.20.24	33.41.31	32.02.55
	25	30.24.35	28.46.33	27.08.49	25.31.24	23.54.20	22.17.38	20.41.20	19.05.29
Saturn	22	---	---	118.59.03	117.15.39	115.32.29	113.49.34	112.06.53	110.24.27
	23	108.42.15	107.00.17	105.18.33	103.37.04	101.55.48	100.14.46	98.33.58	96.53.23
	24	95.13.02	93.32.54	91.52.59	90.13.18	88.33.49	86.54.34	85.15.31	83.36.41
	25	81.58.03	80.19.38	78.41.26	77.03.25	75.25.37	73.48.00	72.10.36	70.33.23
	26	68.56.22	67.19.33	65.42.56	64.06.30	62.30.15	60.54.12	59.18.20	57.42.39
	27	56.07.09	54.31.50	52.56.42	51.21.45	49.46.59	48.12.24	46.37.59	45.03.46
	28	43.29.42	41.55.49	40.22.07	38.48.35	37.15.14	35.42.03	34.09.02	32.36.11
	29	31.03.31	29.31.01	27.58.41	26.26.32	24.54.33	23.22.44	21.51.06	20.19.39
Mars	24	---	118.40.17	117.03.26	115.26.48	113.50.22	112.14.09	110.38.08	109.02.19
	25	107.26.42	105.51.17	104.16.04	102.41.03	101.06.13	99.31.35	97.57.09	96.22.54
	26	94.48.50	93.14.58	91.41.16	90.07.46	88.34.27	87.01.18	85.28.21	83.55.34
	27	82.22.58	80.50.33	79.18.18	77.46.13	76.14.19	74.42.36	73.11.03	71.39.39
	28	70.08.27	68.37.24	67.06.31	65.35.48	64.05.15	62.34.51	61.04.38	59.34.34
	29	58.04.40	56.34.55	55.05.19	53.35.53	52.06.36	50.37.28	49.08.29	47.39.39
	30	46.10.58	44.42.26	43.14.02	41.45.47	40.17.40	38.49.42	37.21.52	35.54.11
	31	34.26.38	32.59.13	31.31.56	30.04.47	28.37.47	27.10.56	25.44.13	24.17.40

Lunar almanac for May 2018

DISTANCES of Moon's Center from Planets WEST of her.									
Star's Name	Date	Noon D.M.S.	IIIh D.M.S.	VIh D.M.S.	IXh D.M.S.	Midn/t D.M.S.	XVh D.M.S.	XVIIIh D.M.S.	XXIh D.M.S.
Jupiter	1	---	---	---	---	---	---	---	20.09.09
	2	21.40.56	23.12.43	24.44.27	26.16.07	27.47.43	29.19.13	30.50.36	32.21.53
	3	33.53.03	35.24.06	36.55.02	38.25.51	39.56.33	41.27.09	42.57.37	44.28.00
	4	45.58.16	47.28.27	48.58.32	50.28.32	51.58.27	53.28.18	54.58.05	56.27.48
	5	57.57.28	59.27.06	60.56.41	62.26.14	63.55.47	65.25.19	66.54.50	68.24.22
	6	69.53.54	71.23.28	72.53.04	74.22.43	75.52.24	77.22.09	78.51.58	80.21.52
	7	81.51.51	83.21.56	84.52.07	86.22.25	87.52.51	89.23.25	90.54.08	92.25.00
	8	93.56.02	95.27.14	96.58.38	98.30.13	100.02.00	101.34.00	103.06.13	104.38.40
	9	106.11.21	107.44.17	109.17.28	110.50.55	112.24.38	113.58.38	115.32.55	117.07.30
	10	118.42.23	---	---	---	---	---	---	---
Saturn	6	19.42.48	21.11.31	22.40.19	24.09.11	25.38.07	27.07.08	28.36.14	30.05.26
	7	31.34.45	33.04.09	34.33.41	36.03.20	37.33.08	39.03.04	40.33.09	42.03.24
	8	43.33.49	45.04.26	46.35.13	48.06.13	49.37.25	51.08.50	52.40.29	54.12.22
	9	55.44.30	57.16.53	58.49.31	60.22.26	61.55.38	63.29.07	65.02.54	66.36.59
	10	68.11.22	69.46.05	71.21.07	72.56.29	74.32.12	76.08.15	77.44.39	79.21.24
	11	80.58.31	82.36.00	84.13.51	85.52.04	87.30.40	89.09.39	90.49.00	92.28.45
	12	94.08.53	95.49.23	97.30.17	99.11.34	---	---	---	---
Mars	7	---	---	---	---	19.46.47	21.12.30	22.38.27	24.04.39
	8	25.31.05	26.57.45	28.24.40	29.51.49	31.19.12	32.46.50	34.14.44	35.42.53
	9	37.11.18	38.39.59	40.08.57	41.38.13	43.07.46	44.37.37	46.07.47	47.38.16
	10	49.09.03	50.40.11	52.11.39	53.43.27	55.15.35	56.48.05	58.20.57	59.54.10
	11	61.27.45	63.01.43	64.36.03	66.10.46	67.45.52	69.21.21	70.57.13	72.33.28
	12	74.10.07	75.47.09	77.24.35	79.02.24	---	---	---	---
Venus	18	---	---	---	---	---	---	20.13.10	21.50.44
	19	23.28.31	25.06.26	26.44.25	28.22.26	30.00.26	31.38.23	33.16.15	34.54.01
	20	36.31.40	38.09.11	39.46.32	41.23.43	43.00.44	44.37.34	46.14.12	47.50.38
	21	49.26.51	51.02.52	52.38.40	54.14.15	55.49.36	57.24.44	58.59.38	60.34.18
	22	62.08.44	63.42.57	65.16.55	66.50.40	68.24.10	69.57.27	71.30.29	73.03.18
	23	74.35.52	76.08.13	77.40.20	79.12.14	80.43.54	82.15.20	83.46.33	85.17.32
	24	86.48.18	88.18.52	89.49.12	91.19.19	92.49.13	94.18.54	95.48.23	97.17.39
	25	98.46.43	100.15.35	101.44.14	103.12.41	104.40.55	106.08.58	107.36.49	109.04.28
	26	110.31.55	111.59.10	113.26.14	114.53.06	116.19.47	117.46.16	119.12.33	---
Jupiter	28	---	---	---	---	---	---	---	19.46.23
	29	21.17.55	22.49.30	24.21.06	25.52.42	27.24.15	28.55.45	30.27.11	31.58.33
	30	33.29.50	35.01.02	36.32.07	38.03.08	39.34.02	41.04.50	42.35.33	44.06.10
	31	45.36.40	47.07.05	48.37.24	50.07.38	51.37.47	53.07.50	54.37.48	56.07.41

Lunar almanac for May 2018

The Sun's							
day	date	Longtde D.M.S	RA H.M.S	Dec D.M.S	Eq of time	diff	SD
Tu.	1	40.48.58	02h34m32s	15.08.39 N	2m55s	0.0s	15' 52"
W.	2	41.47.10	02h38m22s	15.26.37 N	3m02s	6.9s	15' 52"
Th.	3	42.45.20	02h42m12s	15.44.19 N	3m08s	6.3s	15' 51"
F.	4	43.43.29	02h46m03s	16.01.46 N	3m14s	5.8s	15' 51"
Sa.	5	44.41.37	02h49m54s	16.18.57 N	3m19s	5.2s	15' 51"
Sun.	6	45.39.43	02h53m46s	16.35.51 N	3m24s	4.6s	15' 51"
M.	7	46.37.48	02h57m38s	16.52.29 N	3m28s	4.1s	15' 51"
Tu.	8	47.35.51	03h01m31s	17.08.51 N	3m32s	3.5s	15' 50"
W.	9	48.33.53	03h05m25s	17.24.55 N	3m35s	2.9s	15' 50"
Th.	10	49.31.54	03h09m19s	17.40.41 N	3m37s	2.3s	15' 50"
F.	11	50.29.54	03h13m14s	17.56.11 N	3m39s	1.7s	15' 50"
Sa.	12	51.27.52	03h17m09s	18.11.22 N	3m40s	1.1s	15' 49"
Sun.	13	52.25.48	03h21m05s	18.26.14 N	3m40s	0.5s	15' 49"
M.	14	53.23.44	03h25m02s	18.40.49 N	3m40s	0.0s	15' 49"
Tu.	15	54.21.38	03h28m59s	18.55.04 N	3m40s	0.5s	15' 49"
W.	16	55.19.30	03h32m57s	19.09.00 N	3m39s	-1.1s	15' 49"
Th.	17	56.17.21	03h36m55s	19.22.37 N	3m37s	-1.7s	15' 48"
F.	18	57.15.11	03h40m54s	19.35.54 N	3m35s	-2.2s	15' 48"
Sa.	19	58.12.59	03h44m53s	19.48.51 N	3m32s	-2.7s	15' 48"
Sun.	20	59.10.45	03h48m53s	20.01.27 N	3m29s	-3.3s	15' 48"
M.	21	60.08.29	03h52m53s	20.13.43 N	3m25s	-3.8s	15' 48"
Tu.	22	61.06.12	03h56m54s	20.25.38 N	3m21s	-4.3s	15' 47"
W.	23	62.03.54	04h00m56s	20.37.12 N	3m16s	-4.8s	15' 47"
Th.	24	63.01.33	04h04m58s	20.48.25 N	3m10s	-5.3s	15' 47"
F.	25	63.59.12	04h09m00s	20.59.16 N	3m05s	-5.8s	15' 47"
Sa.	26	64.56.49	04h13m03s	21.09.45 N	2m58s	-6.2s	15' 47"
Sun.	27	65.54.24	04h17m06s	21.19.53 N	2m51s	-6.7s	15' 47"
M.	28	66.51.58	04h21m10s	21.29.38 N	2m44s	-7.2s	15' 46"
Tu.	29	67.49.31	04h25m14s	21.39.01 N	2m37s	-7.6s	15' 46"
W.	30	68.47.03	04h29m19s	21.48.01 N	2m28s	-8.1s	15' 46"
Th.	31	69.44.34	04h33m24s	21.56.39 N	2m20s	-8.5s	15' 46"

Lunar almanac for May 2018

The Moon's											
			Meridian	Right Ascension							
day	date	Age Days	Passage H.M	Noon D.M.S	IIIh D.M.S	VIh D.M.S	IXh D.M.S	Midn/t D.M.S	XVh D.M.S	XVIIIh D.M.S	XXIh D.M.S
Tu.	1	16	13h42m	237.05.01	238.39.29	240.14.04	241.48.47	243.23.35	244.58.30	246.33.31	248.08.39
W.	2	17	14h31m	249.43.51	251.19.10	252.54.33	254.30.00	256.05.32	257.41.08	259.16.46	260.52.28
Th.	3	18	15h20m	262.28.11	264.03.56	265.39.42	267.15.28	268.51.14	270.26.59	272.02.42	273.38.23
F.	4	19	16h09m	275.14.02	276.49.37	278.25.08	280.00.34	281.35.55	283.11.11	284.46.20	286.21.22
Sa.	5	20	16h57m	287.56.16	289.31.03	291.05.41	292.40.10	294.14.30	295.48.40	297.22.40	298.56.30
Sun.	6	21	17h45m	300.30.10	302.03.38	303.36.56	305.10.03	306.42.58	308.15.43	309.48.16	311.20.38
M.	7	22	18h31m	312.52.48	314.24.48	315.56.37	317.28.16	318.59.44	320.31.02	322.02.11	323.33.11
Tu.	8	23	19h17m	325.04.01	326.34.44	328.05.19	329.35.46	331.06.07	332.36.22	334.06.32	335.36.37
W.	9	24	20h03m	337.06.38	338.36.37	340.06.33	341.36.28	343.06.22	344.36.17	346.06.14	347.36.13
Th.	10	25	20h48m	349.06.15	350.36.22	352.06.34	353.36.53	355.07.20	356.37.55	358.08.40	359.39.37
F.	11	26	21h35m	1.10.46	2.42.08	4.13.45	5.45.38	7.17.48	8.50.17	10.23.05	11.56.14
Sa.	12	27	22h23m	13.29.45	15.03.40	16.37.59	18.12.43	19.47.55	21.23.35	22.59.45	24.36.24
Sun.	13	28	23h14m	26.13.36	27.51.20	29.29.38	31.08.31	32.48.00	34.28.05	36.08.48	37.50.09
M.	14	29	24h08m	39.32.09	41.14.49	42.58.09	44.42.09	46.26.51	48.12.14	49.58.19	51.45.05
Tu.	15	1	00h05m	53.32.33	55.20.41	57.09.31	58.59.01	60.49.11	62.40.00	64.31.28	66.23.32
W.	16	2	01h02m	68.16.12	70.09.27	72.03.14	73.57.33	75.52.22	77.47.38	79.43.19	81.39.24
Th.	17	3	02h02m	83.35.50	85.32.34	87.29.35	89.26.49	91.24.13	93.21.46	95.19.24	97.17.04
F.	18	4	03h04m	99.14.44	101.12.20	103.09.51	105.07.13	107.04.23	109.01.19	110.57.59	112.54.19
Sa.	19	5	04h04m	114.50.18	116.45.53	118.41.02	120.35.43	122.29.55	124.23.34	126.16.41	128.09.13
Sun.	20	6	05h03m	130.01.09	131.52.28	133.43.09	135.33.11	137.22.34	139.11.17	140.59.19	142.46.41
M.	21	7	05h59m	144.33.22	146.19.23	148.04.43	149.49.22	151.33.22	153.16.42	154.59.23	156.41.26
Tu.	22	8	06h51m	158.22.51	160.03.40	161.43.53	163.23.31	165.02.35	166.41.06	168.19.06	169.56.35
W.	23	9	07h41m	171.33.34	173.10.06	174.46.10	176.21.49	177.57.03	179.31.54	181.06.23	182.40.32
Th.	24	10	08h29m	184.14.21	185.47.52	187.21.07	188.54.06	190.26.52	191.59.24	193.31.45	195.03.55
F.	25	11	09h16m	196.35.57	198.07.50	199.39.37	201.11.18	202.42.54	204.14.27	205.45.58	207.17.28
Sa.	26	12	10h02m	208.48.57	210.20.27	211.51.58	213.23.32	214.55.09	216.26.51	217.58.37	219.30.28
Sun.	27	13	10h49m	221.02.26	222.34.31	224.06.43	225.39.03	227.11.32	228.44.09	230.16.55	231.49.51
M.	28	14	11h36m	233.22.56	234.56.12	236.29.37	238.03.13	239.36.58	241.10.54	242.45.00	244.19.16
Tu.	29	15	12h24m	245.53.41	247.28.16	249.03.00	250.37.52	252.12.53	253.48.02	255.23.19	256.58.42
W.	30	16	13h13m	258.34.12	260.09.47	261.45.27	263.21.12	264.57.00	266.32.51	268.08.44	269.44.38
Th.	31	17	14h01m	271.20.33	272.56.27	274.32.21	276.08.12	277.44.00	279.19.45	280.55.25	282.31.00

Lunar almanac for May 2018

The Moon's											
			Meridian	Declination							
day	date	Age Days	Passage H.M	Noon D.M.S	IIIh D.M.S	VIh D.M.S	IXh D.M.S	Midn/t D.M.S	XVh D.M.S	XVIIIh D.M.S	XXIh D.M.S
Tu.	1	16	13h42m	15.07.03 S	15.29.33 S	15.51.20 S	16.12.23 S	16.32.41 S	16.52.14 S	17.11.00 S	17.29.00 S
W.	2	17	14h31m	17.46.13 S	18.02.37 S	18.18.13 S	18.33.00 S	18.46.57 S	19.00.04 S	19.12.21 S	19.23.47 S
Th.	3	18	15h20m	19.34.22 S	19.44.05 S	19.52.57 S	20.00.57 S	20.08.04 S	20.14.20 S	20.19.43 S	20.24.14 S
F.	4	19	16h09m	20.27.53 S	20.30.39 S	20.32.33 S	20.33.35 S	20.33.44 S	20.33.02 S	20.31.27 S	20.29.02 S
Sa.	5	20	16h57m	20.25.44 S	20.21.36 S	20.16.37 S	20.10.47 S	20.04.07 S	19.56.38 S	19.48.19 S	19.39.11 S
Sun.	6	21	17h45m	19.29.14 S	19.18.30 S	19.06.58 S	18.54.38 S	18.41.32 S	18.27.40 S	18.13.02 S	17.57.39 S
M.	7	22	18h31m	17.41.32 S	17.24.41 S	17.07.06 S	16.48.49 S	16.29.50 S	16.10.09 S	15.49.48 S	15.28.46 S
Tu.	8	23	19h17m	15.07.05 S	14.44.45 S	14.21.47 S	13.58.12 S	13.34.00 S	13.09.12 S	12.43.48 S	12.17.51 S
W.	9	24	20h03m	11.51.20 S	11.24.15 S	10.56.39 S	10.28.32 S	9.59.54 S	9.30.47 S	9.01.11 S	8.31.07 S
Th.	10	25	20h48m	8.00.37 S	7.29.41 S	6.58.20 S	6.26.35 S	5.54.28 S	5.21.58 S	4.49.08 S	4.15.59 S
F.	11	26	21h35m	3.42.32 S	3.08.47 S	2.34.46 S	2.00.31 S	1.26.03 S	0.51.23 S	0.16.33 S	0.18.26 N
Sa.	12	27	22h23m	0.53.33 N	1.28.45 N	2.04.02 N	2.39.22 N	3.14.43 N	3.50.02 N	4.25.20 N	5.00.32 N
Sun.	13	28	23h14m	5.35.39 N	6.10.37 N	6.45.25 N	7.20.00 N	7.54.21 N	8.28.26 N	9.02.12 N	9.35.37 N
M.	14	29	24h08m	10.08.38 N	10.41.15 N	11.13.23 N	11.45.02 N	12.16.07 N	12.46.39 N	13.16.33 N	13.45.47 N
Tu.	15	1	00h05m	14.14.19 N	14.42.07 N	15.09.09 N	15.35.21 N	16.00.42 N	16.25.09 N	16.48.40 N	17.11.13 N
W.	16	2	01h02m	17.32.46 N	17.53.17 N	18.12.44 N	18.31.04 N	18.48.17 N	19.04.20 N	19.19.12 N	19.32.51 N
Th.	17	3	02h02m	19.45.16 N	19.56.27 N	20.06.21 N	20.14.58 N	20.22.17 N	20.28.17 N	20.32.59 N	20.36.21 N
F.	18	4	03h04m	20.38.24 N	20.39.07 N	20.38.31 N	20.36.35 N	20.33.21 N	20.28.48 N	20.22.58 N	20.15.52 N
Sa.	19	5	04h04m	20.07.30 N	19.57.53 N	19.47.02 N	19.35.00 N	19.21.46 N	19.07.24 N	18.51.53 N	18.35.17 N
Sun.	20	6	05h03m	18.17.37 N	17.58.54 N	17.39.10 N	17.18.27 N	16.56.48 N	16.34.14 N	16.10.46 N	15.46.28 N
M.	21	7	05h59m	15.21.21 N	14.55.28 N	14.28.49 N	14.01.28 N	13.33.26 N	13.04.45 N	12.35.27 N	12.05.35 N
Tu.	22	8	06h51m	11.35.10 N	11.04.15 N	10.32.50 N	10.00.59 N	9.28.43 N	8.56.04 N	8.23.03 N	7.49.43 N
W.	23	9	07h41m	7.16.06 N	6.42.13 N	6.08.05 N	5.33.46 N	4.59.16 N	4.24.36 N	3.49.50 N	3.14.58 N
Th.	24	10	08h29m	2.40.01 N	2.05.02 N	1.30.03 N	0.55.03 N	0.20.06 N	0.14.46 S	0.49.35 S	1.24.17 S
F.	25	11	09h16m	1.58.51 S	2.33.16 S	3.07.30 S	3.41.32 S	4.15.20 S	4.48.54 S	5.22.11 S	5.55.11 S
Sa.	26	12	10h02m	6.27.52 S	7.00.13 S	7.32.12 S	8.03.49 S	8.35.02 S	9.05.50 S	9.36.11 S	10.06.05 S
Sun.	27	13	10h49m	10.35.30 S	11.04.26 S	11.32.50 S	12.00.42 S	12.28.01 S	12.54.45 S	13.20.54 S	13.46.27 S
M.	28	14	11h36m	14.11.22 S	14.35.39 S	14.59.16 S	15.22.12 S	15.44.27 S	16.06.00 S	16.26.50 S	16.46.56 S
Tu.	29	15	12h24m	17.06.17 S	17.24.52 S	17.42.41 S	17.59.43 S	18.15.58 S	18.31.24 S	18.46.01 S	18.59.48 S
W.	30	16	13h13m	19.12.46 S	19.24.53 S	19.36.09 S	19.46.34 S	19.56.08 S	20.04.49 S	20.12.38 S	20.19.35 S
Th.	31	17	14h01m	20.25.39 S	20.30.50 S	20.35.09 S	20.38.35 S	20.41.07 S	20.42.47 S	20.43.34 S	20.43.28 S

Lunar almanac for May 2018

The Moon's							
		Semi Diameter		Horiz. Parallax		Proportional Log	
day	date	Noon M.S	Midnight M.S	Noon M.S	Midnight M.S	Noon	Midnight
Tu.	1	15'08"	15'04"	55'32"	55'18"	5107	5125
W.	2	15'00"	14'57"	55'04"	54'52"	5143	5159
Th.	3	14'53"	14'51"	54'41"	54'31"	5174	5187
F.	4	14'49"	14'47"	54'23"	54'18"	5198	5204
Sa.	5	14'46"	14'46"	54'14"	54'13"	5210	5211
Sun.	6	14'46"	14'47"	54'14"	54'17"	5210	5206
M.	7	14'49"	14'51"	54'23"	54'32"	5198	5186
Tu.	8	14'54"	14'58"	54'43"	54'57"	5171	5153
W.	9	15'02"	15'07"	55'13"	55'31"	5132	5108
Th.	10	15'13"	15'19"	55'52"	56'13"	5081	5054
F.	11	15'25"	15'32"	56'37"	57'01"	5023	4992
Sa.	12	15'39"	15'45"	57'26"	57'51"	4961	4929
Sun.	13	15'52"	15'58"	58'15"	58'38"	4899	4871
M.	14	16'04"	16'10"	59'00"	59'20"	4844	4819
Tu.	15	16'14"	16'18"	59'37"	59'52"	4799	4780
W.	16	16'21"	16'23"	60'03"	60'11"	4767	4757
Th.	17	16'25"	16'25"	60'15"	60'16"	4753	4751
F.	18	16'24"	16'23"	60'13"	60'08"	4755	4761
Sa.	19	16'20"	16'18"	60'00"	59'49"	4771	4784
Sun.	20	16'14"	16'10"	59'36"	59'22"	4800	4817
M.	21	16'06"	16'02"	59'07"	58'50"	4835	4856
Tu.	22	15'57"	15'52"	58'34"	58'16"	4876	4898
W.	23	15'48"	15'43"	57'59"	57'42"	4919	4940
Th.	24	15'38"	15'34"	57'25"	57'08"	4962	4983
F.	25	15'29"	15'25"	56'52"	56'36"	5004	5024
Sa.	26	15'21"	15'17"	56'21"	56'06"	5043	5063
Sun.	27	15'13"	15'09"	55'52"	55'38"	5081	5099
M.	28	15'06"	15'02"	55'25"	55'12"	5116	5133
Tu.	29	14'59"	14'56"	55'00"	54'49"	5149	5163
W.	30	14'53"	14'51"	54'39"	54'30"	5176	5188
Th.	31	14'49"	14'47"	54'22"	54'16"	5199	5207

Lunar almanac for May 2018

The Planet's				
		Right Ascension	Declination	Meridian
day	date	H.M.S	D.M.S	Passage
Venus				
Tu.	1	04h25m26s	22.32.42 N	01h50m
M.	7	04h56m33s	23.46.19 N	01h58m
Sun.	13	05h28m03s	24.35.59 N	02h06m
Sa.	19	05h59m43s	25.00.32 N	02h14m
F.	25	06h31m20s	24.59.29 N	02h22m
Mars				
Tu.	1	19h43m08s	22.40.15 S	17h08m
M.	7	19h54m51s	22.25.37 S	16h57m
Sun.	13	20h05m51s	22.11.32 S	16h44m
Sa.	19	20h15m59s	21.59.03 S	16h31m
F.	25	20h25m10s	21.49.16 S	16h16m
Jupiter				
Tu.	1	15h08m52s	16.19.28 S	12h34m
M.	7	15h05m50s	16.07.23 S	12h08m
Sun.	13	15h02m46s	15.55.12 S	11h41m
Sa.	19	14h59m45s	15.43.15 S	11h14m
F.	25	14h56m52s	15.31.52 S	10h47m
Saturn				
Tu.	1	18h38m55s	22.14.40 S	16h04m
M.	7	18h38m15s	22.15.18 S	15h40m
Sun.	13	18h37m20s	22.16.10 S	15h16m
Sa.	19	18h36m13s	22.17.15 S	14h51m
F.	25	18h34m54s	22.18.31 S	14h25m