SUL 2-15	Heating time: 60 s	J=0.0008041± 0.000	00019343																	BLANKS									
Italy, Sulmona	measured 02/15/2012	Irr 50																		10minutes									
	Power	40Ar	40Ar	± 1σ	39Ar	± 1σ	38Ar	± 1σ	37Ar	± 1σ	36Ar	± 1σ	D <sub>1</sub>	%1 <b>g</b>	% 40Ar*	Age	± 1σ	Ca/K	± 10	40Ar	40Ar	± 1s	39Ar	± 1s	38Ar	± 1s	37Ar	± 1s 36	6Ar ± 1s
N	% full power	Moles	v	v	v	v	v	v	v	v	v	v				ka	ka			Moles	v	V	v	v	v	v	v	v :	v v
N1100-01	12	1,968E-15	1,446E-03	2,314E-06	2,696E-03	1,887E-06	4,051E-05	1,377E-07	9,087E-06	5,452E-08	3,090E-07	1,582E-08	1,00904	0,2	98,1	765,9	± 4,5	32,0	0,3	1,248E-1	7 9,823E-06	1,965E-07	1,012E-07	1,194E-08	6,598E-09	6,532E-09 1	1,000E-09 9,9	00E-10 2,045	5E-07 2,045E-08
N1100-02	12	1,705E-15	1,254E-03	2,759E-06	2,238E-03	3,133E-06	3,368E-05	1,044E-07	7,350E-06	5,880E-08	4,270E-07	7,686E-09	1,00901	0,2	95,0	774,4	± 4,9	32,9	0,3	1,248E-1	7 9,823E-06	1,965E-07	1,012E-07	1,194E-08	6,598E-09	6,532E-09 1	1,000E-09 9,9	JOE-10 2,045	15E-07 2,045E-08
N1100-03	12	1,009E-15	7,462E-04	7,462E-07	1,399E-03	1,819E-06	2,020E-05	1,091E-07	3,896E-06	4,675E-08	2,150E-07	2,150E-08	1,00893	0,2	99,7	769,2	± 9,1	38,8	0,5	1,248E-1	7 9,823E-06	1,965E-07	1,012E-07	1,194E-08	6,598E-09	6,532E-09 1	1,000E-09 9,9	JOE-10 2,045	15E-07 2,045E-08
N1100-04	12	1,848E-15	1,357E-03	1,764E-06	2,439E-03	2,195E-06	3,706E-05	1,223E-07	6,494E-06	5,845E-08	4,364E-07	9,164E-09	1,00903	0,2	94,6	767,2	± 4,3	38,3	0,4	1,033E-1	7 8,137E-06	1,221E-07	8,213E-08	1,429E-08	4,675E-09	4,628E-09 1	1,228E-08 1,2	03E-08 1,787	37E-07 2,019E-08
N1100-05	12	1,342E-15	9,877E-04	1,580E-06	1,579E-03	2,211E-06	2,375E-05	1,045E-07	5,268E-06	5,795E-08	7,050E-07	2,327E-08	1,00897	0,2	84,8	771,1	± 8,6	30,6	0,4	1,033E-1	7 8,137E-06	1,221E-07	8,213E-08	1,429E-08	4,675E-09	4,628E-09 1	1,228E-08 1,2	03E-08 1,787	37E-07 2,019E-08
N1100-06	12	1,597E-15	1,174E-03	1,658E-06	2,158E-03	3,021E-07	3,164E-05	1,266E-07	6,312E-06	6,943E-08	2,389E-07	2,078E-08	1,00900	0,2	98,6	781,2	± 6,0	34,9	0,5	1,033E-1	7 8,137E-06	1,221E-07	8,213E-08	1,429E-08	4,675E-09	4,628E-09 1	1,228E-08 1,2	03E-08 1,787	37E-07 2,019E-08
N1100-07	12	9,186E-16	6,796E-04	1,291E-06	1,251E-03	1,501E-06	1,912E-05	1,147E-07	4,027E-06	3,624E-08	2,067E-07	1,406E-08	1,00892	0,2	98,6	774,5	± 5,8	31,8	0,4	1,152E-1	7 9,073E-06	1,633E-07	7,587E-08	2,018E-08	3,410E-09	3,376E-09 2	2,764E-08 1,2	02E-08 1,697	7E-07 7,127E-09
N1100-08	12	1,242E-15	9,157E-04	2,106E-06	1,639E-03	1,967E-06	2,397E-05	1,438E-07	3,471E-06	3,471E-08	3,471E-07	1,562E-08	1,00896	0,2	94,4	765,9	± 5,1	48,4	0,6	1,152E-1	9,073E-06	1,633E-07	7,587E-08	2,018E-08	3,410E-09	3,376E-09 2	2,764E-08 1,2	02E-08 1,697	7E-07 7,127E-09
N1100-09	12	1,822E-15	1,339E-03	1,205E-07	2,338E-03	2,571E-06	3,592E-05	1,078E-07	7,332E-06	1,100E-07	4,765E-07	1,477E-08	1,00902	0,2	93,5	780,2	± 3,5	32,6	0,5	1,152E-1	9,073E-06	1,633E-07	7,587E-08	2,018E-08	3,410E-09	3,376E-09 2	2,764E-08 1,2	02E-08 1,697	7E-07 7,127E-09
N1100-10	12	1,919E-15	1,410E-03	1,410E-06	2,423E-03	1,938E-06	3,685E-05	1,327E-07	8,255E-06	5,448E-08	6,048E-07	1,270E-08	1,00904	0,2	90,9	770,3	± 3,2	30,0	0,3	1.152E-1	9,073E-06	1,633E-07	7,587E-08	2,018E-08	3,410E-09	3,376E-09 2	2,764E-08 1,2	02E-08 1,49°	7E-07 7,127E-09
N1100-11	12	1,824E-15	1,339E-03	1,071E-06	1,799E-03	1,979E-06	2,765E-05	1,383E-07	1,576E-05	9,456E-08	1,462E-06	2,485E-08	1,00902	0,2	71,8	778,7	± 8,0	11.4	0.1	9.637E-1	7,588E-06	1,214E-07	1,012E-07	2,591E-08	6,580E-09	6,514E-09 5	5,160E-09 5,1	08E-09 1,22°	9E-07 1,942E-08
N1100-12	12	1,108E-15	8,165E-04	1,633E-06	1,497E-03	2,395E-06	2,202E-05	1,101E-07	4,969E-06	5,466E-08	1,930E-07	9,650E-09	1,00894	0,2	97,7	773,8	± 6,6	30.1	0.4	9.637E-1	7,588E-06	1,214E-07	1,012E-07	2,591E-08	6,580E-09	6,514E-09 5	5,160E-09 5,1	08E-09 1,22	9E-07 1,942E-08
N1100-13	12	1,168E-15	8,598E-04	2,579E-06	1,399E-03	1,702E-06	4,266E-05	1,706E-07	4,296E-06	8,592E-08	5,493E-07	5,108E-08	1,00895	0,2	85,9	767,2	± 16,7	32.5	0.7	9.637E-1	7,588E-06	1,214E-07	1,012E-07	2,591E-08	6,580E-09	6,514E-09 5	5,160E-09 5,1	08E-09 1,22	9E-07 1,942E-08
N1100-14	12	1,957E-15	1,439E-03	2,015E-06	2,584E-03	4,134E-06	3,920E-05	1,725E-07	8,252E-06	6,602E-08	5,026E-07	2,764E-08	1,00904	0,2	94,4	765,4	± 5,7	26,8	0,3	1.320E-1	1,040E-05	1,559E-08	4,145E-07	2,073E-08	1,576E-08	1,387E-08 4	1,982E-08 4,9	32E-08 2,13F	8E-07 1,604E-08
N1100-15	12	2,039E-15	1,499E-03	2,698E-06	2,791E-03	5,861E-06	4,086E-05	1,634E-07	6,566E-06	5,909E-08	3,290E-07	1,119E-08	1,00905	0,2	97,9	765,5	± 4,0	36,5	0,5	1.320E-1	1,040E-05	1,559E-08	4,145E-07	2,073E-08	1,576E-08	1,387E-08 4	1,982E-08 4,9	32E-08 2,13F	8E-07 1,604E-08
N1100-16	12	2,703E-15	1,983E-03	3,173E-06	3,581E-03	3,581E-06	5,290E-05	1,746E-07	6,055E-06	6,055E-08	5,366E-07	1,556E-08	1,00913	0,2	95,4	770,4	± 3,4	50,8	0,7	1.320E-1	1,040E-05	1,559E-08	4,145E-07	2,073E-08	1,576E-08	1,387E-08 4	1,982E-08 4,9	32E-08 2,13F	8E-07 1,604E-08
N1100-17	12	1,930E-15	1,419E-03	2,129E-06	2,548E-03	4,274E-06	4,116E-05	1,646E-07	5,785E-06	5,207E-08	4,150E-07	2,760E-08	1,00903	0,2	96,0	778,3	± 5,8	37,9	0,5	1.320E-1	7 1,040E-05	1,559E-08	4,145E-07	2,073E-08	1,576E-08	1,387E-08 4	1,982E-08 4,9	32E-08 2,13F	8E-07 1,604E-08
N1100-18	12	2,336E-15	1,714E-03	2,742E-06	3,093E-03	4,021E-06	4,581E-05	8,704E-08	7,105E-06	5,116E-08	4,801E-07	8,162E-09	1,00907	0,2	95,3	770,5	± 3,1	37,2	0,4	1.145E-1	9,016E-06	1,803E-08	1,369E-07	2,286E-08	5,370E-09	5,316E-09 1	1,349E-08 7,6	35E-09 1,96°	32E-07 1,373E-08
N1100-19	12	1,412E-15	1,039E-03	1,559E-06	1,834E-03	4,218E-06	2,815E-05	1,436E-07	2,723E-06	4,357E-08	4,286E-07	8,571E-08	1,00898	0,2	93,6	770,7	± 20,0	57,7	1,0	1.145E-1	9,016E-06	1,803E-08	1,369E-07	2,286E-08	5,370E-09	4,726E-09 1	1,349E-08 7,6	35E-09 1,96°	32E-07 1,373E-08
N1100-20	12	1,207E-15	8,902E-04	1,246E-06	1,661E-03	1,827E-06	2,410E-05	9,640E-08	4,785E-06	5,264E-08	2,300E-07	4,600E-08	1,00896	0,2	99,1	770,5	± 12,3	29.7	0,4	1.145E-1	9,016E-06	1,803E-08	1,369E-07	2,286E-08	5,370E-09	4,726E-09 1	1,349E-08 7,6	35E-09 1,96°	32E-07 1,373E-08
N1100-21	12	2,262E-15	1,660E-03	3,104E-06	2,970E-03	2,079E-06	4,342E-05	1,042E-07	6,886E-06	5,764E-08	5,180E-07	8,288E-09	1,00908	0,2	94,5	770,4	± 2,9	36,8	0,3	1,145E-1	7 9,016E-06	1,803E-08	1,369E-07	2,286E-08	5,370E-09	4,726E-09 1	1,349E-08 7,6	35E-09 1,963	62E-07 1,373E-08

Weighted Mean age

Inverse Isochron (40Ar/36Ar)Int (10)

771,30

769,80 305.5 ± 7.8

1,00

2,40

D<sub>1</sub> Mass discrimination per AMU based on power law

Interfering Isotope production ratios Standard ACs-2 8.439 E-04 ± 25 % 1.193 ± 0.02 Ma Age Irr time (40Ar/39Ar)k 4.034 E-04 ± 5.96% (36Ar/37Ar)Ca 105 minutes (39Ar/37Ar)Ca (38Ar/37Ar)Ca 5.288 E-04 ± 25 % 1.447 E-04 ± 26 % Reactor Osiris 70Mw (France)

Atmospheric argon ratios (40Ar/36Ar)A (40Ar/38Ar)A 295.5 ± 0.5 0.1880 ± 0.0001

(40Ar/38Ar)A Decay constants (S-J 1977) 40K le (5.81 ± 0.00)E-11 a-1 40K lb (4.962 ± 0.000)E-10 a-1

SUL 2-16	Heating time: 60 s	J=0.0007429± 0.000	000014858																	BLANKS									
Italy, Sulmona	measured 02/15/2012	Irr 50																		10minutes									
	Power	40Ar	40Ar	± 1 <b>ơ</b>	39Ar	± 1σ	38Ar	± 1σ	37Ar	± 1σ	36Ar	± 1σ	D <sub>1</sub>	%1 <b>g</b>	% 40Ar*	Age	± 1 <b>0</b>	Ca/K	± 1σ	40Ar	40Ar	±1s	39Ar	± 1s	38Ar	±1s	37Ar :	1s 36	6Ar ±1s
N	% full power	Moles	V	v	v	V	v	v	V	V	V	v				ka	ka			Moles	V	V	V	V	V	V	v	۷ ۱	v v
N1102-01	12	9,047E-16	6,686E-04	1,404E-06	9,786E-04	1,859E-06	2,108E-05	1,476E-07	4,114E-06	5,801E-08	5,463E-07	7,375E-09	1,00892	0,2	85,2	779,1	± 9,2	23,8	0,4	1,049E-17	8,263E-06	2,066E-07	9,090E-07 1	1,945E-07	2,845E-09 2,	817E-09 2,	,236E-08 1,56	5E-08 1,985	5E-07 2,064E-0
N1102-02	12	8,101E-16	5,996E-04	9,594E-07	9,643E-04	1,541E-06	1,514E-05	7,570E-08	4,054E-06	4,054E-08	2,487E-07	1,306E-08	1,00891	0,2	97,8	812,9	± 10,1	23,8	0,3	1,049E-17	8,263E-06	2,066E-07	9,090E-07	1,945E-07	2,845E-09 2,	817E-09 2,	,236E-08 1,56	5E-08 1,985	5E-07 2,064E-0
N1102-03	12	1,768E-15	1,299E-03	1,819E-06	1,378E-03	1,791E-06	2,000E-05	8,000E-08	5,000E-06	5,000E-08	1,938E-06	2,713E-08	1,00902	0,2	61,6	782,3	± 10,6	27,6	0,3	1,049E-17	8,263E-06	2,066E-07	9,090E-07 1	1,945E-07	2,845E-09 2,	817E-09 2,	,236E-08 1,56	5E-08 1,985	5E-07 2,064E-0
N1102-04	12	2,335E-15	1,713E-03	2,056E-06	2,685E-03	2,148E-06	4,110E-05	1,233E-07	1,215E-05	7,655E-08	7,291E-07	1,772E-08	1,00908	0,2	91,3	785,8	± 4,4	22,1	0,2	1,049E-17	8,263E-06	2,066E-07	9,090E-07 1	1,945E-07	2,845E-09 2,	817E-09 2,	,236E-08 1,56	5E-08 1,985	5E-07 2,064E-0
N1102-05	12	2,244E-15	1,645E-03	2,303E-06	1,845E-03	2,768E-06	2,781E-05	5,562E-08	8,305E-06	6,063E-08	2,152E-06	1,119E-08	1,00907	0,2	65,3	785,0	± 5,2	21,8	0,2	9,053E-18	7,129E-06	8,554E-08	7,589E-07 9	9,410E-08	1,383E-09 1,	314E-09 2,	,309E-08 9,69	8E-09 1,488	8E-07 9,821E-0
N1102-06	12	2,247E-15	1,647E-03	2,306E-06	2,283E-03	2,511E-06	3,546E-05	1,206E-07	1,058E-05	6,242E-08	1,298E-06	1,389E-08	1,00907	0,2	80,2	780,6	± 4,0	21,2	0,2	9,053E-18	7,129E-06	8,554E-08	7,589E-07 9	9,410E-08	1,383E-09 1,	314E-09 2,	,309E-08 9,69	8E-09 1,488	8E-07 9,821E-0
N1102-07	12	7,725E-16	5,710E-04	1,199E-06	9,297E-04	1,766E-06	1,465E-05	8,790E-08	2,428E-06	3,156E-08	2,590E-07	1,036E-08	1,00890	0,2	94,5	776,8	± 6,6	37,8	0,6	9,053E-18	7,129E-06	8,554E-08	7,589E-07 9	9,410E-08	1,383E-09 1,	314E-09 2,	,309E-08 9,69	8E-09 1,488	8E-07 9,821E-0
N1102-08	12	1,115E-15	8,210E-04	1,478E-06	1,060E-03	1,802E-06	1,622E-05	6,488E-08	4,032E-06	3,226E-08	8,620E-07	1,207E-08	1,00894	0,2	75,1	781,6	± 6,6	25,8	0,3	9,053E-18	7,129E-06	8,554E-08	7,589E-07 9	9,410E-08	1,383E-09 1,	314E-09 2,	,309E-08 9,69	8E-09 1,488	8E-07 9,821E-0
N1102-09	12	9,930E-16	7,326E-04	1,319E-06	1,088E-03	1,306E-06	1,693E-05	1,016E-07	4,910E-06	3,928E-08	4,914E-07	1,376E-08	1,00893	0,2	86,8	783,6	± 8,4	21,7	0,2	9,864E-18	7,767E-06	1,243E-07	1,276E-06 1	1,059E-07	2,589E-09 2,	563E-09 1,	,967E-08 1,46	3E-08 1,495	5E-07 1,779E-0
N1102-10	12	4,398E-15	3,218E-03	1,609E-06	1,697E-03	1,358E-06	2,801E-05	8,403E-08	6,053E-06	4,237E-08	8,042E-06	2,413E-08	1,00931	0,2	29,9	767,4	± 15,5	27,5	0,3	9,864E-18	7,767E-06	1,243E-07	1,276E-06 1	1,059E-07	2,589E-09 2,	563E-09 1,	,967E-08 1,46	3E-08 1,495	5E-07 1,779E-0
N1102-11	12	1,151E-15	8,476E-04	1,102E-06	1,391E-03	1,669E-06	2,144E-05	1,072E-07	3,382E-06	3,382E-08	3,121E-07	1,795E-08	1,00894	0,2	94,5	773,7	± 7,4	40,4	0,5	9,864E-18	7,767E-06	1,243E-07	1,276E-06 1	1,059E-07	2,589E-09 2,	563E-09 1,	,967E-08 1,46	3E-08 1,495	5E-07 1,779E-0
N1102-12	12	1,475E-15	1,084E-03	2,169E-06	1,726E-03	2,071E-06	2,671E-05	1,068E-07	4,088E-06	2,453E-08	4,510E-07	1,037E-08	1,00898	0.2	92,1	778,3	± 5,3	41,5	0,4	9,864E-18	7,767E-06	1,243E-07	1,276E-06 1	1,059E-07	2,589E-09 2,	563E-09 1,	,967E-08 1,46	3E-08 1,495	5E-07 1,779E-0
N1102-13	12	1,834E-15	1,348E-03	1,618E-06	2,216E-03	3,324E-06	4,177E-05	1,671E-07	5,318E-06	5,318E-08	4,025E-07	1,530E-08	1,00903	0.2	93,8	768,3	± 4,3	41,2	0,7	1,221E-17	9,613E-06	1,250E-07	2,636E-06 1	1,476E-07	9,240E-09 9,	148E-09 6.	.250E-08 6,18	8E-08 1,083	3E-07 1,451E-0
N1102-14	12	2,664E-15	1,954E-03	2,736E-06	3,011E-03	3,914E-06	4,638E-05	1,391E-07	9,672E-06	4,836E-08	8,066E-07	2,097E-08	1,00912	0,2	89,9	787,0	± 4,0	31,2	0,3	1,221E-17	9,613E-06	1,250E-07	2,636E-06 1	1,476E-07	9,240E-09 9,	148E-09 6.	250E-08 6,18	8E-08 1,083	3E-07 1,451E-0
N1102-15	12	2,799E-15	2,052E-03	3,078E-06	2,664E-03	3,996E-06	4,128E-05	1,445E-07	6,246E-06	6,246E-08	1,969E-06	2,875E-08	1,00913	0,2	75,4	784,1	± 5,6	36,4	0,4	1,076E-17	8,471E-06	1,440E-07	1,226E-06 1	1,422E-07	1,466E-08 5,	923E-09 1,	441E-08 1,03	2E-08 2,058	8E-07 1,317E-0
N1102-16	12	2,309E-15	1,694E-03	2,372E-06	1,526E-03	1,984E-06	2,339E-05	7,953E-08	4,977E-06	3,783E-08	3,064E-06	2,758E-08	1,00908	0,2	51,7	773,8	± 9,9	26,2	0,3	1,076E-17	8,471E-06	1,440E-07	1,226E-06 1	1,422E-07	1,466E-08 5,	923E-09 1,	441E-08 1,03	2E-08 2,058	8E-07 1,317E-0
N1102-17	12	1,589E-15	1,168E-03	2,453E-06	1,335E-03	3,071E-06	2,075E-05	6,225E-08	1,800E-04	3,240E-07	1,915E-06	1,053E-08	1,00900	0,2	67,1	789,9	± 9,7	0,6	0,0	1,076E-17	8,471E-06	1,440E-07	1,226E-06 1	1,422E-07	1,466E-08 5,	923E-09 1,	441E-08 1,03	2E-08 2,058	8E-07 1,317E-0
N1102-18	12	1,145E-15	8,446E-04	1,267E-06	1,349E-03	1,619E-06	2,056E-05	8,224E-08	4,557E-06	3,828E-08	4,160E-07	1,206E-08	1,00895	0,2	93,0	781,4	± 5,6	25,3	0,3	1,076E-17	8,471E-06	1,440E-07	1,226E-06 1	1,422E-07	1,466E-08 5,	923E-09 1,	441E-08 1,03	2E-08 2,058	8E-07 1,317E-0
N1102-19	12	1,347E-15	9,906E-04	1,783E-06	1,550E-03	2,480E-06	2,346E-05	8,680E-08	3,210E-06	3,852E-08	3,320E-07	7,968E-09	1,00897	0,2	95,2	818,1	± 4,2	40,7	0,6	9,037E-18	7,116E-06	1,779E-07	7,635E-07	2,008E-07	1,918E-09 1,	573E-09 3,	,113E-08 1,75	3E-08 1,630	0E-07 1,042E-0
N1102-20	12	9,954E-16	7,337E-04	1,394E-06	1,177E-03	1,765E-06	1,813E-05	9,790E-08	3,129E-06	2,065E-08	3,352E-07	7,710E-09	1,00893	0,2	93,4	781,3	± 5,0	31,7	0,4	9,037E-18	7,116E-06	1,779E-07	7,635E-07 2	2,008E-07	1,918E-09 1,	573E-09 3,	113E-08 1,75	3E-08 1,630	0E-07 1,042E-0
N1102-21	12	1,607E-15	1,180E-03	2,478E-06	1,866E-03	2,612E-06	2,896E-05	1,158E-07	5,064E-06	5,570E-08	5,007E-07	1,222E-08	1,00900	0,2	91,9	782,7	± 4,3	31,0	0,4	9,037E-18	7,116E-06	1,779E-07	7,635E-07 2	2,008E-07	1,918E-09 1,	573E-09 3.	113E-08 1,75	3E-08 1,630	0E-07 1,042E-0
N1102-22	12	1,505E-15	1,106E-03	1,548E-06	1,627E-03	2,114E-06	2,563E-05	1,025E-07	3,612E-06	5,418E-08	7,580E-07	1,478E-08	1,00899	0,2	85,5	781,8	± 5,5	37,9	0,7	9,281E-18	7,308E-06	1,315E-08	9,710E-07 1	1,029E-07	1,918E-09 1,	899E-09 3,	113E-08 3,08	2E-08 1,956	6E-07 1,408E-0
N1102-23	12	2,079E-15	1,525E-03	1,677E-06	1,663E-03	2,328E-06	2,737E-05	1,095E-07	8,417E-06	4,293E-08	2,167E-06	2,643E-08	1,00906	0,2	63,2	781,0	± 8,0	16,6	0,2	9,281E-18	7,308E-06	1,315E-08	9,710E-07 1	1,029E-07	1,918E-09 1,	899E-09 3,	113E-08 3,08	2E-08 1,956	6E-07 1,262E-0
N1102-24	12	3.160E-15	2.314E-03	2.545E-06	3.489E-03	5.233E-06	5.285E-05	1.744E-07	1.194E-05	7.164E-08	1.554E-06	2.020E-08	1.00918	0.2	83.1	785.6	± 4.7	29.2	0.3	9.671E-18	7.615E-06	2.132E-07	9.706E-07 1	1.029E-07	5.000E-10 4.	950E-10 4.	360E-09 4.31	6E-09 1.753	3E-07 1.106E-0
N1102-25	12	2.705E-15	1.984F-03	3.373F-06	2 805F-03	3 506F-06	4.312F-05	1 294F-07	4 845F-06	6.783F-08	1 754F-06	1 930F-08	1 00913	0.2	77.3	778.6	+57	57.9	1.0	1 251F-17	9.852F-06	3 153F-07	1.828F-06	2 468F-07	3 126F-09 2	313F-09 1	476F-08 1 04	5F-08 1 843	3F-07 1.861F-0
N1102-26	12	1.902E-15	1.398F-03	2 237F-06	2.057E-03	1.851F-06	3.098F-05	9 294F-08	7.364F-06	5 155F-08	1 105F-06	1 989F-08	1 00904	0.2	81.2	784.2	+67	27.9	0.3	1.251E-17	-,	-,	.,	-,	.,		,	,	3E-07 1.861E-0
N1102-27	12	1,499E-14	1.095F-02	8 762F-06	2 401F-03	2 641F-06	4 225F-05	7.183E-08	8 840F-06	5.569F-08	3 404F-05	1.089F-07	1 01053	0.2	12.2	795.2	+ 48.2	27.2	0.3	1.251E-17									3F-07 2 005F-0
N1102-28	12	3.774E-15	2 763F-03	3.316E-06	2.735E-03	3.282E-06	4 129F-05	1,115E-07	9 677F-06	8.129E-08	4 617F-06	3.417E-08	1 00925	0.2	54.3	782.8	+ 9.7	28.3	0,0	.,	-,	-,	.,	-,	.,		,	,	5E-07 2.064E-0

D<sub>1</sub> Mass discrimination per AMU based on power law

Bold italic font: crystals excluded from the weighted mean age calculation

Interfering Isotope production ratios Standard (40Ar/39Ar)k 8.439 E-04 ± 25 % Age 1.193 ± 0.02 Ma (36Ar/37Ar)Ca 4.034 E-04 ± 5.96% 5.288 E-04 ± 25 % Irr time 105 minutes Osiris 70Mw (France) (39Ar/37Ar)Ca (38Ar/37Ar)Ca 1.447 E-04 ± 26 % Atmospheric argon ratios (40Ar/36Ar)A 295.5 ± 0.5 0.1880 ± 0.0001

Decay constants (S-J 1977) 40K le (5.81 ± 0.00)E-11 a-1 40K lb (4.962 ± 0.000)E-10 a-1

(40Ar/38Ar)A

± 1s (analytical) ± 1s (external) MSWD ka ka
1,15 8,30 0,74 781,30 781,10 2,10 8,40 0,96 Inverse Isochron (40Ar/36Ar)Int (1**a**) 295.8 ± 1.5

ka 8,30 0,99

8,30 0,95

SUL 2-22	Heating time: 60 s	-0.0007576+0.000	10001515																	BLANKS									
Italy, Sulmona	measured 02/14/2012	Irr 50	0001313																	10minutes									/
italy, Samona	Power	40Ar	40Ar	± 1 <b>g</b>	39Ar	± 1σ	38Ar	± 1σ	37Ar	± 1 <b>g</b>	36Ar	± 1 <b>g</b>	D	%1 <b>σ</b>	% 40Ar*	Ago	± 1 <b>g</b>	Ca/K	±1σ	404+	40Ar	±1s	39Ar	± 1s	38Ar	±1s 3	7∆r +	1s 36Ar	+ 15
N	% full power	Moles	V	v	V	v	V	V	V	v	V	v	D1		70 4UAI	ka	ka	Ca/K		Moles	V	V .	V	V .	V	V 3	V 1	J V	V V
N1098-01	12	1.451E-15	1.070E-03	1.926E-06	1.719E-03	1.891E-06	2.699E-05	1.080E-07	5.370E-06	4.296E-08	2.750E-07	1.375E-08	1.0090	0.2	98.1	834.8	± 6.6	35.3	0.4	1.368F-17	1.077F-05	2.154F-07	9.213F-08	1.935F-08 2	995F-09 1.5	87F-09 1.28	6F-08 1.22	2F-08 2.000F	-07 2.300E-08
N1098-02	12	1.266E-15	9.351F-04	1 122F-06	1 497F-03	1.347F-06	2 300F-05	9 200F-08	4.330F-06	3.464F-08	4 326F-07	1.601E-08	1 0090	0.2	92.9	792.1	± 7.7	38,2	0.4	1.368E-17									-07 2 300F-08
N1098-03	12	9.203E-16	6.825F-04	1.570F-06	1.029E-03	1 234F-06	1.592F-05	7 960F-08	4 830F-06	4 444F-08	4 806F-07	6 248F-09	1 0089	0.2	88.3	796.1	± 9.6	23.5	0.3	1 368E-17	1.077E-05	2 154F-07	9.213F-08	1 935F-08 2	995F-09 1.5	87F-09 1 28	6F-08 1 222	2F-08 2 000F	-07 2 300F-08
N1098-04	12	1.117E-15	8 264F-04	8 264F-07	1 282F-03	1 923F-06	1.956F-05	8 802F-08	4 226F-06	3.381F-08	4 902F-07	1 029F-08	1 0089	0.2	89.9	790.2	+81	33.5	0.4	1 368E-17	1.077E-05	2 154F-07	9.213F-08	1 935F-08 2	995F-09 1.5	87F-09 1 28	6F-08 1 222	2F-08 2 000F	-07 2 300F-08
N1098-05	12	1,120E-15	8.260E-04	1.322E-06	1.243E-03	1.492E-06	1.800E-05	8.100E-08	4.000E-06	3.200E-08	5.789E-07	6.947E-09	1.0089	0.2	87.4	794.0	± 5.3	34.6	0.4	1.106E-17	8.707E-06	1.480E-07	1.068E-07	1.324E-08 9	7.754E-10 9.3	64E-10 4.94	4E-08 9.888	3E-09 2.164E-	-07 1.298E-08
N1098-06	12	2.227E-15	1 634F-03	2 615F-06	2 131F-03	1.279F-06	3 291F-05	1 646F-07	7.060E-06	5.648F-08	1 612F-06	1 934F-08	1 0091	0.2	75.6	796.3	± 5.3	33,5	0.3	1 106F-17	8 707F-06	1.480F-07	1.068E-07	1.324F-08.9	754F-10 9.3	64F-10 4.94	4F-08 9.888	8F-09 2 164F	-07 1 298F-08
N1098-07	12	1.501E-15	1.104E-03	1.546E-06	1.746E-03	2.270E-06	2.685E-05	1.074E-07	8.000E-06	5.600E-08	5.135E-07	1.361E-08	1.0090	0.2	92.5	801.1	± 4.9	24.2	0.2	1.106E-17	8.707E-06	1.480E-07	1.068E-07	1.324E-08 9	7.754E-10 9.3	64E-10 4.94	4E-08 9.888	3E-09 2.164E-	-07 1.298E-08
N1098-08	12	1.896E-15	1.393E-03	2.368E-06	2.173E-03	2.173E-06	3.370E-05	8.425E-08	1.123E-05	3.257E-08	7.290E-07	1.538E-08	1.0090	0.2	89.7	789.0	± 4.4	21.4	0.2	1.106E-17									-07 1.298E-08
N1098-09	12	1.061E-15	7.836E-04	1.489E-06	1.097E-03	1.975E-06	1.733E-05	6.066E-08	4.627E-06	3.239E-08	7.179E-07	1.809E-08	1.0089	0.2	81.8	797.4	± 9.1	26.2	0.3	1.173E-17	9.235E-06	1.662E-07	1.050E-07	1.050E-08 5	5.810E-09 5.7	52E-09 1.12	3E-08 3.257	/E-09 2.207E-	-07 1.545E-08
N1098-10	12	1.823E-15	1.340E-03	1.474E-06	1.489E-03	2.234E-06	2.350E-05	3.055E-08	8.911E-06	6.238E-08	1.893E-06	2.461E-08	1.0090	0.2	64.3	794.2	± 8,8	18.4	0.2	1.173E-17	9.235E-06	1.662E-07	1.050E-07	1.050E-08 5	5.810E-09 5.7	52E-09 1.12	3E-08 3.257	/E-09 2.207E-	-07 1.545E-08
N1098-11	12	2.196E-15	1.613F-03	2.580F-06	2 453F-03	2 698F-06	3 787F-05	1.591F-07	7 252F-06	7 252F-08	8 840F-07	1 503F-08	1 0091	0.2	88.3	796.9	± 4.3	37.3	0.4	1 173F-17	9.235F-06	1 662F-07	1.050F-07	1.050F-08.5	810F-09 57	52F-09 1 12	3F-08 3 257	/F-09 2 207F	-07 1 545F-08
N1098-12	12	1.888E-15	1 387F-03	2.358F-06	2 212F-03	2 212F-06	3 200F-05	1.344F-07	1 000F-05	1 000F-07	6 200F-07	1 674F-08	1 0090	0.2	91.9	790.9	± 4.7	24.4	0.3	1 173E-17	9.235E-06	1 662F-07	1.050F-07	1.050E-08.5	810F-09 57	52F-09 1 12	3F-08 3 257	/F-09 2 207F	-07 1.545E-08
N1098-13	12	2.176E-15	1.597F-03	3.354F-06	2.151E-03	1.291F-06	3.277F-05	9.831F-08	5 654F-06	6.219F-08	1 448F-06	1.651E-08	1 0091	0.2	77.7	792.7	± 5.6	33.1	0.4	1 103E-17									-07 1 890F-08
N1098-14	12	2.243E-15	1 646F-03	2 420F-06	2.238E-03	1.567F-06	3 490F-05	1.361E-07	8 364F-06	7 026F-08	1 458F-06	2 887F-08	1 0091	0.2	78.3	791.2	± 6.7	23.3	0.2	1 103E-17	8 685F-06	2 388F-07	1.051F-07	1 282F-08 1	615E-09 1.5	99F-09 1.00	0F-08 5 600	1F-09 2 032F	-07 1 890F-08
N1098-15	12	1.475E-15	1 086F-03	2 063F-06	1 646F-03	2 634F-07	3.373F-05	1 687F-07	5 960F-06	3 695F-08	7 010F-07	3 239F-08	1 0090	0.2	87.0	786.4	± 9.3	24.0	0.2	1 103E-17	8 685F-06	2 388F-07	1.051F-07	1 282F-08 1	615E-09 1.5	99F-09 1.00	0F-08 5 600	1F-09 2 032F	-07 1 890F-08
N1098-16	12	2.425E-15	1.780E-03	7 298F-06	2 872F-03	2 011F-07	4 451F-05	1.335E-07	7 099F-06	4 969F-08	6.559E-07	2 230F-08	1 0091	0.2	93.0	792.0	± 5.4	35,3	0.4	1.215E-17	9.564F-06	2 104F-07	1.082F-07	2.467F-08 1	131F-08 1 1	20F-08 1 94	3F-08 1 924	4F-08 2 167F	-07 1 604F-08
N1098-17	12	1.609E-15	1.184E-03	2.013E-06	1.829E-03	4.024E-06	2.818E-05	8.454E-08	5.261E-06	4.735E-08	6.540E-07	1.373E-08	1.0090	0.2	89.5	794.0	± 5.4	30,3	0.4	1.215E-17	9.564E-06	2.104E-07	1.082E-07	2.467E-08 1	.131E-08 1.1	20E-08 1.94	3E-08 1.924	4E-08 2.167E-	-07 1.604E-08
N1098-18	12	1.599E-15	1.177E-03	1.765E-06	1.597E-03	1.597E-06	2.486E-05	9.447E-08	5.627E-06	3.939E-08	1.097E-06	2.961E-08	1.0090	0.2	78.6	793.8	± 8.8	24.7	0.3	1.215E-17	9.564E-06	2.104E-07	1.082E-07	2.467E-08 1	.131E-08 1.1	20E-08 1.94	3E-08 1.924	4E-08 2.167E-	-07 1.604E-08
N1098-19	12	1.338E-15	9.860F-04	1.972F-06	1.492E-03	2.536F-06	2 234F-05	8 936F-08	3 197F-06	2.558F-08	6 740F-07	1.281E-08	1 0090	0.2	86.7	783.7	± 6.2	40,8	0.5	1 215E-17									-07 1 604F-08
N1098-20	12	2.075E-15	1.523E-03	2.437E-06	2.199E-03	2.419E-06	3.462E-05	1.039E-07	1.053E-05	5.372E-08	1.131E-06	2.386E-08	1.0091	0.2	83.2	791.9	± 5.6	18.2	0.2	1.025E-17	8.068E-06	1.372E-07	6.626E-08	1.922E-08 1	.671E-08 9.6	92E-09 1.32	1E-08 1.308	3E-08 2.257E-	-07 1.286E-08
N1098-21	12	7.511E-15	5.491E-03	6.589E-06	7.339E-03	1.248E-05	1.171E-04	2.810E-07	1.174E-05	3.992E-08	4.763E-06	3.763E-08	1.0097	0.2	76.6	790.8	± 3.8	22.8	0.2	1.081E-17									-07 1.518E-08
N1098-22	12	8.099E-15	5.920E-03	1.243E-05	7.992E-03	1.359E-05	1.264E-04	2.527E-07	5.674E-05	1.532E-07	5.191E-06	5.191E-08	1.0097	0.2	77.3	790.2	± 4.5	5.1	0.0	1.081E-17	8.512E-06	1.873E-07	4.709E-08	1.319E-08 5	3.337E-09 5.2	84E-09 5.44	7E-09 5.393	3E-09 2.266E-	-07 1.518E-08

D<sub>1</sub> Mass discrimination per AMU based on power law Bold italic font: crystals excluded from the weighted mean age calculation

Standard ACs-2 Interfering Isotope production ratios 8.439 E-04 ± 25 % Age 1.193 ± 0.02 Ma 4.034 E-04 ± 5.96% 5.288 E-04 ± 25 % 1.447 E-04 ± 26 % (36Ar/37Ar)Ca (39Ar/37Ar)Ca Irr time Reactor 105 minutes Osiris 70Mw (France) (38Ar/37Ar)Ca (38Ar/37Ar/Ca Atmospheric argon ratios (40Ar/36Ar)A (40Ar/38Ar)A Decay constants (S-J 1977) 40K le (5.81 ± 0.00)E-11 a-1 40K lb (4.962 ± 0.000)E-10 a-1 295.5 ± 0.5 0.1880 ± 0.0001

	Age	± 1s (analytical)	± 1s (external)	MSWD
	ka	ka	ka	
Weighted mean age	792,6	1,2	8,5	0,5
Inverse Isochron	793,0	3,0	8,8	0,5
(40Ar/36Ar)Int (1 <b>o</b> )	294.8 ± 4.5			