

Table XX: Step-degassing Ne analyses.

Sample name	Aliquot	Aliquot weight (g)	Heating temperature (deg C)	Heating time (hr)	Total ^{20}Ne released ¹ (10^3 atoms)	Total ^{21}Ne released ² (10^3 atoms)	Total ^{22}Ne released ³ (10^3 atoms)	$^{21}\text{Ne} / ^{20}\text{Ne}^4$ (10^3)	$^{22}\text{Ne} / ^{20}\text{Ne}^4$ (10^3)	Cosmogenic $^{22}\text{Ne}^5$ This heating step (10^3 atoms g^{-1})	Cosmogenic ^{21}Ne as % of ^{21}Ne released in this heating step	Percent of total cosmogenic ^{21}Ne released in this step	Total cosmogenic ^{21}Ne (10^3 atoms g^{-1})
10-OV-BR-06	a	0.1595	400	0.25	0.839 +/- 0.017	35.832 +/- 0.637	128.560 +/- 2.843	42.557 +/- 0.925	152.2 +/- 4.3	209.87 +/- 4.02	93	60	349.8 +/- 4.8
			850	0.25	0.665 +/- 0.017	24.020 +/- 0.419	91.052 +/- 2.794	35.674 +/- 1.007	135.1 +/- 5.2	138.77 +/- 2.66	92	40	
			1150	0.2	0.233 +/- 0.015	0.871 +/- 0.067	23.071 +/- 2.559	3.713 +/- 0.370	97.6 +/- 12.5	1.14 +/- 0.50	21	0	
10-OV-BR-07	a	0.1409	400	0.25	0.424 +/- 0.016	35.211 +/- 0.596	82.705 +/- 2.714	82.638 +/- 3.036	193.4 +/- 9.3	241.89 +/- 4.26	97	64	379.9 +/- 4.9
			850	0.25	0.506 +/- 0.016	20.335 +/- 0.334	73.169 +/- 2.694	39.716 +/- 1.329	142.7 +/- 6.8	134.19 +/- 2.41	93	35	
			1150	0.2	0.088 +/- 0.015	0.799 +/- 0.068	9.137 +/- 2.531	9.048 +/- 1.757	102.6 +/- 33.6	3.84 +/- 0.58	68	1	
10-OV-BR-08	a	0.1399	400	0.25	0.430 +/- 0.016	41.422 +/- 0.582	91.260 +/- 2.825	95.658 +/- 3.518	209.8 +/- 9.8	288.05 +/- 4.19	97	66	436.4 +/- 4.7
			850	0.25	0.343 +/- 0.016	21.555 +/- 0.286	58.918 +/- 2.633	62.869 +/- 2.945	170.3 +/- 10.8	147.37 +/- 2.08	96	34	
			1150	0.2	0.064 +/- 0.016	0.322 +/- 0.045	7.943 +/- 2.647	5.008 +/- 1.449	122.2 +/- 51.2	0.94 +/- 0.47	41	0	
	b	0.1437	400	0.25	0.498 +/- 0.016	44.546 +/- 0.852	102.868 +/- 2.622	89.406 +/- 2.958	204.7 +/- 8.1	300.86 +/- 5.96	97	70	431.2 +/- 6.6
			850	0.25	0.329 +/- 0.015	19.632 +/- 0.415	55.753 +/- 2.508	59.882 +/- 2.880	168.2 +/- 10.7	130.33 +/- 2.91	95	30	
			1150	0.2	0.073 +/- 0.015	0.263 +/- 0.043	7.415 +/- 2.326	3.630 +/- 0.948	101.3 +/- 37.9	0.00 +/- 0.00	0	0	
10-OV-BR-09	a	0.1388	400	0.25	0.856 +/- 0.018	15.676 +/- 0.277	108.268 +/- 2.846	18.197 +/- 0.431	125.1 +/- 4.0	95.04 +/- 2.04	84	51	184.6 +/- 2.9
			850	0.25	1.756 +/- 0.021	16.559 +/- 0.264	192.065 +/- 3.409	9.423 +/- 0.147	108.3 +/- 2.0	82.16 +/- 1.96	69	44	
			1150	0.2	0.209 +/- 0.017	1.647 +/- 0.089	25.152 +/- 2.676	7.907 +/- 0.752	119.4 +/- 15.8	7.44 +/- 0.73	63	4	
	b	0.1359	400	0.25	0.947 +/- 0.020	15.680 +/- 0.325	113.155 +/- 2.834	16.525 +/- 0.399	118.2 +/- 3.7	95.11 +/- 2.44	82	51	186.2 +/- 3.5
			850	0.25	1.698 +/- 0.019	16.368 +/- 0.353	182.924 +/- 3.181	9.673 +/- 0.174	106.9 +/- 1.9	84.19 +/- 2.37	70	45	
			1150	0.2	0.224 +/- 0.015	1.597 +/- 0.1	23.978 +/- 2.420	7.131 +/- 0.642	106.1 +/- 12.8	6.90 +/- 0.81	59	4	
10-OV-BR-10	a	0.1301	400	0.25	0.322 +/- 0.019	30.413 +/- 0.463	68.393 +/- 2.820	93.852 +/- 5.444	210.0 +/- 14.7	227.28 +/- 3.60	97	61	375.4 +/- 4.2
			850	0.25	0.531 +/- 0.016	20.579 +/- 0.274	76.091 +/- 2.918	38.737 +/- 1.150	141.9 +/- 6.7	146.64 +/- 2.15	93	39	
			1150	0.2	0.085 +/- 0.016	0.441 +/- 0.056	7.958 +/- 2.494	5.238 +/- 1.179	93.3 +/- 34.0	1.48 +/- 0.56	44	0	
10-OV-BR-11	a	0.137	400	0.25	0.488 +/- 0.017	22.073 +/- 0.384	71.428 +/- 2.553	44.992 +/- 1.621	144.9 +/- 7.0	151.14 +/- 2.84	94	55	275.1 +/- 3.5
			850	0.25	0.826 +/- 0.019	19.151 +/- 0.263	102.591 +/- 2.838	23.185 +/- 0.539	123.0 +/- 4.2	122.40 +/- 1.97	88	44	
			1150	0.2	0.127 +/- 0.016	0.590 +/- 0.062	13.164 +/- 2.488	4.642 +/- 0.762	102.4 +/- 23.3	1.56 +/- 0.57	36	1	

¹ Computed by comparison to ^{20}Ne signal in air pipettes. 1-sigma uncertainty includes measurement uncertainty of ^{20}Ne signal in this analysis and the reproducibility of the air pipette signal

² Computed by comparison to ^{21}Ne signal in air pipettes. 1-sigma uncertainty includes measurement uncertainty of ^{21}Ne signal in this analysis and the reproducibility of the air pipette signal

³ Computed by comparison to ^{22}Ne signal in air pipettes. 1-sigma uncertainty includes measurement uncertainty of ^{22}Ne signal in this analysis and the reproducibility of the air pipette signal

⁴ Isotope ratio measured internally during each analysis; does not involve normalization to the Ne isotope signals in the air pipettes.

⁵ Computed by comparison of ^{20}Ne or ^{21}Ne signal to air pipettes, whichever is more precise. Assumes that Ne in sample is a binary mixture of atmospheric and cosmogenic Ne.