



Supplementary Table 1. Continued.

TN228-J2-383-1217-0725-01-1575-017	1575 SH_SOI_G05	SHAJ_11	4124.1	3.0	422.7	14.9	134.74	0.68	0.2440	0.0002	26238	26191	57	145.12	0.73
TN228-J2-383-1217-0725-01-1575-018	1575 SH_SOI_G06	SHAJ_12	4067.3	2.3	662.4	11.8	132.05	0.61	0.2930	0.0002	32442	32367	82	144.72	0.67
TN228-J2-383-1217-0725-01-1575-020	1575 SH_SOI_G07	SHAJ_14	4340.3	3.2	2307.0	16.0	132.07	0.62	0.2801	0.0002	30800	30554	244	144.01	0.68
TN228-J2-383-1217-0725-01-1575-021	1575 SH_SOI_G08	SHAJ_15	4870.8	3.1	3169.9	13.9	131.55	0.60	0.3070	0.0002	34270	33969	302	144.83	0.67
TN228-J2-383-1217-0725-01-1575-022	1575 SH_SOI_G09	SHAJ_16	4598.6	2.8	1329.3	12.2	127.58	0.64	0.4442	0.0002	54037	53903	146	148.60	0.75
TN228-J2-383-1217-0725-01-1575-023	1575 SH_SOI_G10	SHAJ_01	5628.4	4.0	2197.2	13.8	141.39	0.52	0.1920	0.0001	19969	19789	185	149.55	0.56
TN228-J2-383-1217-0725-01-1575-023	1575 SH_SOI_G10-2	SHAO_10	6284.6	8.5	1368.0	2.6	137.25	1.29	0.1877	0.0002	19557	19457	108	145.04	1.36
TN228-J2-383-1217-0725-01-1575-024	1575 SH_SOI_G11	SHAJ_02	4773.8	2.8	1067.4	10.0	135.43	0.60	0.2932	0.0002	32411	32243	105	148.38	0.66
TN228-J2-383-1217-0725-01-1575-025	1575 SH_SOI_G12	SHAJ_03	4940.0	3.5	3820.8	14.2	132.33	0.43	0.2979	0.0002	33130	32707	364	145.18	0.50
TN228-J2-387-1226-1635-23-1599-001	1599 SH_ACR_01	SH_ACR_01	4443.6	4.0	1344.8	8.0	144.21	1.47	0.1385	0.0001	13992	13852	139	149.99	1.53
TN228-J2-387-1226-1635-23-1599-002	1599 SH_ACR_02	SH_ACR_02	4436.3	4.1	582.8	7.4	142.08	1.55	0.1372	0.0001	13878	13817	63	147.77	1.62
TN228-J2-387-1226-1635-23-1599-003	1599 SH_ACR_03	SH_ACR_03	4392.4	4.5	698.9	9.9	142.29	1.61	0.1355	0.0001	13693	13620	79	147.90	1.68
TN228-J2-387-1226-1635-23-1599-004	1599 SH_ACR_04	SH_ACR_04	4791.9	3.8	676.5	5.7	143.29	1.35	0.1327	0.0001	13376	13311	70	148.81	1.40
TN228-J2-387-1226-1635-23-1599-005	1599 SH_ACR_05	SH_ACR_05	4489.1	3.3	1267.3	6.6	143.03	1.19	0.1479	0.0001	15028	14898	132	149.21	1.24
TN228-J2-387-1226-1635-23-1599-014	1599 SH_SOI_G13	SHAJ_05	3864.5	2.3	158.9	11.1	148.34	0.55	0.1332	0.0001	13366	13347	25	154.07	0.57
TN228-J2-387-1226-1635-23-1599-016	1599 SH_SOI_G14	SHAJ_06	4356.0	2.8	742.3	12.3	141.17	0.55	0.1426	0.0001	14468	14390	80	147.06	0.58
TN228-J2-387-1226-1635-23-1599-020	1599 SH_SOI_G15	SHAJ_07	4612.3	3.4	2364.9	14.5	141.73	0.53	0.1417	0.0002	14371	14134	240	147.53	0.56
TN228-J2-387-1226-1635-23-1599-020	1599 SH_SOI_G15-2	SHAO_02	4895.4	7.0	813.5	2.6	143.29	0.76	0.1385	0.0001	14064	13922	79	149.07	0.79
TN228-J2-387-1226-1507-22-1616-004	1616 SH_SOI_G16	SHAJ_08	4170.4	2.2	285.6	9.1	140.22	0.54	0.1461	0.0001	14863	14831	35	146.25	0.57
TN228-J2-393-0112-0124-06-1657-001	1657 SH_SOI_B02	SHAJ_10	4120.4	3.0	655.4	14.3	134.67	0.48	0.2876	0.0002	31663	31590	79	147.28	0.52
TN228-J2-393-0112-0124-06-1657-003	1657 SH_SOI_G17	SHAJ_11	4798.2	3.3	1390.9	13.7	132.57	0.43	0.2774	0.0002	30445	30311	137	144.46	0.48
TN228-J2-393-0112-0124-06-1657-004	1657 SH_SOI_B03	SHAJ_12	5344.2	3.4	1270.4	12.8	126.33	0.45	0.3218	0.0002	36436	36325	115	140.01	0.50
TN228-J2-393-0112-0124-06-1657-007	1657 SH_SOI_B01	SHAJ_14	4722.7	3.3	671.5	13.3	132.33	0.55	0.2767	0.0002	30359	30294	71	144.19	0.59
TN228-J2-393-0112-0124-06-1657-010	1657 SH_SOI_B04	SHAJ_15	4772.2	2.8	2137.5	11.4	130.37	0.40	0.3076	0.0002	34397	34190	208	143.62	0.45
TN228-J2-393-0112-0124-06-1657-011	1657 SH_SOI_G18	SHAJ_16	4295.4	3.6	1260.1	16.6	125.69	0.59	0.3279	0.0002	37278	37141	142	139.62	0.66
TN228-J2-393-0112-0124-06-1657-013	1657 SH_SOI_G19	SHAJ_17	5689.1	3.8	1406.6	13.3	126.53	0.46	0.2738	0.0002	30175	30060	119	137.78	0.50
TN228-J2-393-0112-0124-06-1657-015	1657 SH_SOI_G20	SHAK_01	4032.2	3.1	362.6	34.8	130.53	0.81	0.2770	0.0006	30523	30417	92	142.27	0.89
TN228-J2-382-1216-1010-01-1680-003	1680 SH_SOI_B09	SHAF_05	3054.5	2.4	316.1	12.7	145.79	0.62	0.1436	0.0002	14512	14464	52	151.90	0.64
TN228-J2-387-1226-1148-20-1680-004	1680 SH_SOI_B07	SHAK_02	4700.2	16.4	1665.2	168.0	139.63	3.04	0.1362	0.0025	13800	13636	318	145.15	3.17
TN228-J2-387-1226-1148-20-1680-005	1680 SH_SOI_H01	SHAK_03	4994.9	3.4	846.2	30.4	147.00	0.79	0.1337	0.0004	13496	13354	90	152.68	0.82
TN228-J2-387-1226-1148-20-1680-009	1680 SH_SOI_C03	SHAK_06	3698.8	2.9	266.9	34.2	145.23	0.89	0.1353	0.0007	13626	13593	78	150.94	0.93
TN228-J2-387-1226-1148-20-1680-013	1680 SH_SOI_H02	SHAK_07	4195.0	2.8	344.6	28.9	143.43	0.76	0.1421	0.0005	14385	14347	66	149.39	0.79
TN228-J2-387-1226-1148-20-1680-017	1680 SH_SOI_H03	SHAK_08	3333.0	2.5	288.5	30.6	147.19	0.88	0.1447	0.0006	14617	14578	80	153.40	0.92
TN228-J2-387-1226-1148-20-1680-08	1680 SH_SOI_C02	SHAK_05	5670.3	4.0	855.7	32.4	140.82	0.74	0.1403	0.0004	14231	14161	82	146.59	0.77
TN228-J2-382-1216-1010-01-1689-001	1689 SH_SOI_H04	SHAK_10	4890.9	3.1	940.9	30.5	119.13	0.63	0.4463	0.0005	54924	54834	128	139.12	0.74
TN228-J2-382-1216-1010-01-1689-002	1689 SH_SOI_H05	SHAK_11	4189.8	3.0	187.9	31.5	142.92	0.80	0.1635	0.0005	16743	16722	64	149.86	0.84
TN228-J2-382-1216-1010-01-1689-004	1689 SH_SOI_H06	SHAK_12	3867.6	3.1	691.4	35.2	141.14	0.87	0.1688	0.0006	17361	17279	109	148.23	0.92
TN228-J2-382-1216-1010-01-1689-007	1689 SH_SOI_H07	SHAK_14	5018.7	3.3	1595.6	31.0	125.33	0.67	0.3070	0.0005	34509	34362	163	138.13	0.74
TN228-J2-382-1216-1010-01-1689-008	1689 SH_SOI_H08	SHAK_15	4997.6	3.0	1560.2	28.4	125.60	0.60	0.3663	0.0004	42587	42443	158	141.64	0.68
TN228-J2-382-1216-1010-01-1689-009	1689 SH_SOI_H09	SHAK_16	4593.2	3.1	1502.5	29.6	138.45	0.77	0.1720	0.0005	17759	17608	164	145.54	0.81
TN228-J2-382-1216-1010-01-1689-010	1689 SH_SOI_H10	SHAK_17	4494.9	2.4	1279.9	24.8	130.97	0.59	0.3075	0.0004	34422	34225	145	144.29	0.65
TN228-J2-382-1216-1010-01-1689-010	1689 SH_SOI_H10-2	SHAO_03	5043.0	7.3	705.1	2.4	127.83	1.25	0.3023	0.0003	33860	33730	91	140.64	1.37
TN228-J2-387-1226-0615-017-01748-01	1748 SH_SOI_C05	SHAN_10	4229.1	3.4	632.2	6.8	138.83	0.50	0.1688	0.0002	17397	17328	74	145.83	0.53
TN228-J2-387-1226-0615-017-1748-004	1748 SH_SOI_C12	SHAN_11	3473.9	4.3	308.0	10.7	140.48	0.51	0.1748	0.0004	18042	18001	65	147.84	0.53
TN228-J2-387-1226-0615-017-1748-005	1748 SH_SOI_C10	SHAN_17	4187.2	3.6	473.4	7.0	142.27	0.63	0.1381	0.0002	13969	13916	59	148.01	0.66
TN228-J2-387-1226-0615-017-1748-007	1748 SH_SOI_C08	SHAN_03	3991.4	4.6	258.8	9.9	142.64	0.54	0.1414	0.0003	14318	14289	48	148.55	0.57
TN228-J2-387-1226-0615-17-1748-009	1748 SH_SOI_C09	SHAF_09	2713.6	1.6	290.4	9.2	142.13	0.56	0.1468	0.00018	14918	14869	53	148.25	0.58
TN228-J2-387-1226-0615-17-1748-009	1748 SH_SOI_C09-2	SHAO_11	5054.7	22.4	598.1	7.9	143.65	0.94	0.1498	0.0002	15227	15172	62	149.97	0.98
TN228-J2-387-1226-0615-17-1748-014	1748 SH_SOI_K05	SHAN_07	5474.6	4.6	710.8	6.7	139.45	0.67	0.1554	0.0002	15897	15837	65	145.86	0.70
TN228-J2-387-1226-0615-17-1748-015	1748 SH_SOI_K03	SHAN_05	4341.5	4.2	639.7	8.2	140.93	0.57	0.1593	0.0003	16306	16238	76	147.58	0.60
TN228-J2-387-1226-0615-17-1748-016	1748 SH_SOI_K06	SHAN_08	4260.4	3.2	345.8	6.3	138.91	0.50	0.1662	0.0002	17103	17065	46	145.80	0.52
TN228-J2-387-1226-0615-17-1748-020	1748 SH_SOI_K04	SHAN_06	3996.7	3.4	560.5	7.0	139.91	0.65	0.1581	0.0003	16194	16129	71	146.46	0.68
TN 228-J2-387-1225-1253-11-1898-001	1898 SH_SOI_K08	SHAN_14	5011.2	3.5	401.1	4.8	142.60	0.86	0.1407	0.0002	14247	14210	43	148.47	0.90
TN 228-J2-387-1225-1253-11-1898-002	1898 SH_SOI_K07	SHAN_12	3511.8	3.2	490.1	7.5	144.34	0.63	0.1382	0.0003	13955	13891	72	150.15	0.66
TN228-J2-395-0113-1830-5-1947-003	1947 SH_SOI_K09	SHAN_15	4878.4	3.3	348.1	5.2	143.04	0.63	0.1314	0.0002	13232	13199	39	148.51	0.66

\*\* Light grey samples are flagged for high 232Th (&gt; 2000 ppt)

\*\* Dark grey samples are flagged for non-marine d234U (where marine is defined as 147±7 pre-17 kyr and 141.7±7.8 post-17 kyr by IntCal09)

\*\* Bold samples miss both criteria