

**Supplementary Table 2.** Summary of radiocarbon dates used for calculating  $\Delta^{14}\text{C}$ .

Name	Lab Code	Depth (m)	Age (yrBP)	Age err.	$^{14}\text{C}$ age ( $^{14}\text{C}$ yr)	$^{14}\text{C}$ err.
TN228-J2-389-0101-0330-01-1428-010	SH_SOI_I07-2	1428	8981	107	8685	20
TN228-J2-387-1226-2330-25-1448-001	SH_SOI_J03	1448	11951	67	11240	25
TN228-J2-393-0112-0730-13-1442-008	SH_SOI_A01	1442	12205	131	11010	25
TN228-J2-382-1216-1350-03-1523-002	SH_SOI_F01-2	1523	12615	86	11450	30
TN228-J2-382-1216-1350-03-1523-008	SH_SOI_F07	1523	12682	33	11460	30
TN228-J2-395-0113-1830-05-1947-003	SH_SOI_K09	1947	13199	39	12465	30
TN228-J2-387-1226-1635-23-1599-004	SH_ACR_04-T	1599	13311	70	12385	30
TN228-J2-387-1226-1635-23-1599-004	SH_ACR_04C	1599	13311	70	12445	35
TN228-J2-387-1226-1635-23-1599-004	SH_ACR_04-M	1599	13323	50	12350	35
TN228-J2-387-1226-1635-23-1599-004	SH_ACR_04-B	1599	13336	50	12355	35
TN228-J2-387-1226-1148-20-1680-005	SH_SOI_H01	1680	13354	90	12570	35
TN228-J2-387-1226-1635-23-1599-003	SH_ACR_03-T	1599	13620	79	12395	35
TN228-J2-387-1226-1635-23-1599-003	SH_ACR_03C	1599	13620	79	12385	35
TN228-J2-387-1226-1635-23-1599-003	SH_ACR_03-M	1599	13639	50	12410	30
TN228-J2-387-1226-1635-23-1599-003	SH_ACR_03-B	1599	13653	50	12375	35
TN228-J2-387-1226-1635-23-1599-002	SH_ACR_02-T	1599	13817	63	12775	35
TN228-J2-387-1226-1635-23-1599-002	SH_ACR_02C	1599	13817	63	12775	35
TN228-J2-387-1226-1635-23-1599-002	SH_ACR_02-M	1599	13836	50	12655	35
TN228-J2-387-1226-1635-23-1599-002	SH_ACR_02-B	1599	13851	50	12565	35
TN228-J2-387-1226-1635-23-1599-001	SH_ACR_01-T	1599	13852	139	12865	35
TN228-J2-387-1226-1635-23-1599-001	SH_ACR_01C	1599	13852	139	12870	35
TN228-J2-387-1226-1635-23-1599-001	SH_ACR_01-M	1599	13875	50	12865	35
TN228-J2-387-1225-1253-11-1898-002	SH_SOI_K07	1898	13891	72	12390	30
TN228-J2-387-1226-1635-23-1599-001	SH_ACR_01-B	1599	13892	50	12890	35
TN228-J2-387-1226-1635-23-1599-020	SH_SOI_G15-2	1599	13922	79	12845	35
TN228-J2-387-1226-1148-20-1680-008	SH_SOI_C02	1680	14161	82	13090	45
TN228-J2-387-1226-1148-20-1680-008	SH_SOI_C02-T	1680	14161	82	13090	35
TN228-J2-387-1226-1148-20-1680-008	SH_SOI_C02-M	1680	14186	50	13040	35
TN228-J2-387-1226-1148-20-1680-008	SH_SOI_C02-B	1680	14198	50	13220	35
TN228-J2-387-1225-1253-11-1898-001	SH_SOI_K08	1898	14210	43	13365	35
TN228-J2-387-1226-1148-20-1680-013	SH_SOI_H02	1680	14347	66	13400	40
TN228-J2-387-1226-1148-20-1680-013	SH_SOI_H02-T	1680	14347	66	13425	35
TN228-J2-387-1226-1148-20-1680-013	SH_SOI_H02-M	1680	14373	50	13475	35
TN228-J2-387-1226-1148-20-1680-013	SH_SOI_H02-B	1680	14392	50	13430	35
TN228-J2-387-1226-1148-20-1680-003	SH_SOI_B09	1680	14464	52	13275	40
TN228-J2-387-1226-1148-20-1680-017	SH_SOI_H03	1680	14578	80	13345	40
TN228-J2-387-1226-1507-22-1616-004	SH_SOI_G16	1616	14831	35	13485	45
TN228-J2-387-1226-0615-17-1748-009	SH_SOI_C09	1748	14869	53	13675	40
TN228-J2-387-1226-1635-23-1599-005	SH_ACR_05-T	1599	14898	132	13365	35
TN228-J2-387-1226-1635-23-1599-005	SH_ACR_05C	1599	14898	132	13335	35
TN228-J2-387-1226-1635-23-1599-005	SH_ACR_05-M	1599	14912	50	13225	35
TN228-J2-387-1226-1635-23-1599-005	SH_ACR_05-B	1599	14928	50	13185	35
TN228-J2-393-0112-0730-13-1442-003	SH_SOI_J02-2	1442	15056	67	13540	35
TN228-J2-387-1226-0615-17-1748-014	SH_SOI_K05	1748	15837	65	14610	40
TN228-J2-387-1226-0615-17-1748-020	SH_SOI_K04	1748	16129	71	14765	40
TN228-J2-387-1226-0615-17-1748-015	SH_SOI_K03	1748	16238	76	14685	40
TN228-J2-382-1216-1010-01-1689-002	SH_SOI_H05	1689	16722	64	14940	45
TN228-J2-382-1216-1010-01-1689-004	SH_SOI_H06	1689	17279	109	15390	45
TN228-J2-382-1216-1010-01-1689-009	SH_SOI_H09	1689	17608	164	15730	50
TN228-J2-383-1217-0725-01-1575-006	SH_SOI_A04	1575	18102	65	15995	55
TN228-J2-382-1216-1350-03-1523-007	SH_SOI_F06	1523	18333	38	16130	60
TN228-J2-383-1217-1320-05-1460-008	SH_SOI_E03	1460	19274	57	17180	60
TN228-J2-383-1217-0725-01-1575-023	SH_SOI_G10-2	1575	19457	108	17610	60
TN228-J2-383-1217-1320-05-1460-009	SH_SOI_E04	1460	19483	61	17030	60
TN228-J2-382-1216-1350-03-1523-006	SH_SOI_F05	1523	20367	109	18350	70
TN228-J2-382-1216-1350-03-1523-005	SH_SOI_F04-2	1523	21344	153	19030	80
TN228-J2-383-1217-1320-05-1460-007	SH_SOI_E02	1460	21408	57	19220	80
TN228-J2-395-0114-0057-09-1500-002	SH_SOI_E06	1500	23338	75	19950	80
TN228-J2-395-0114-0057-09-1500-010	SH_SOI_E12	1500	25198	144	21990	100
TN228-J2-395-0114-0057-09-1500-010	SH_SOI_E12-T	1500	25198	144	22210	100
TN228-J2-395-0114-0057-09-1500-010	SH_SOI_E12-B	1500	25231	50	22250	100
TN228-J2-382-1216-1350-03-1523-010	SH_SOI_F08-2	1523	25324	333	21620	100
TN228-J2-395-0114-0057-09-1500-008	SH_SOI_E10	1500	25526	209	21810	100
TN228-J2-383-1217-0725-01-1575-017	SH_SOI_G05	1575	26191	57	23020	110
TN228-J2-383-1217-0725-01-1575-010	SH_SOI_F13	1575	26980	96	23000	110
TN228-J2-383-1217-0725-01-1575-001	SH_SOI_A05	1575	27579	92	23070	110
TN228-J2-382-1216-1010-01-1689-010	SH_SOI_H10-2A	1689	33730	145	30470	270
TN228-J2-382-1216-1010-01-1689-010	SH_SOI_H10-2B	1689	33730	145	29300	230