

Figure S1. The three data sets that were combined to form one trace for SN1006

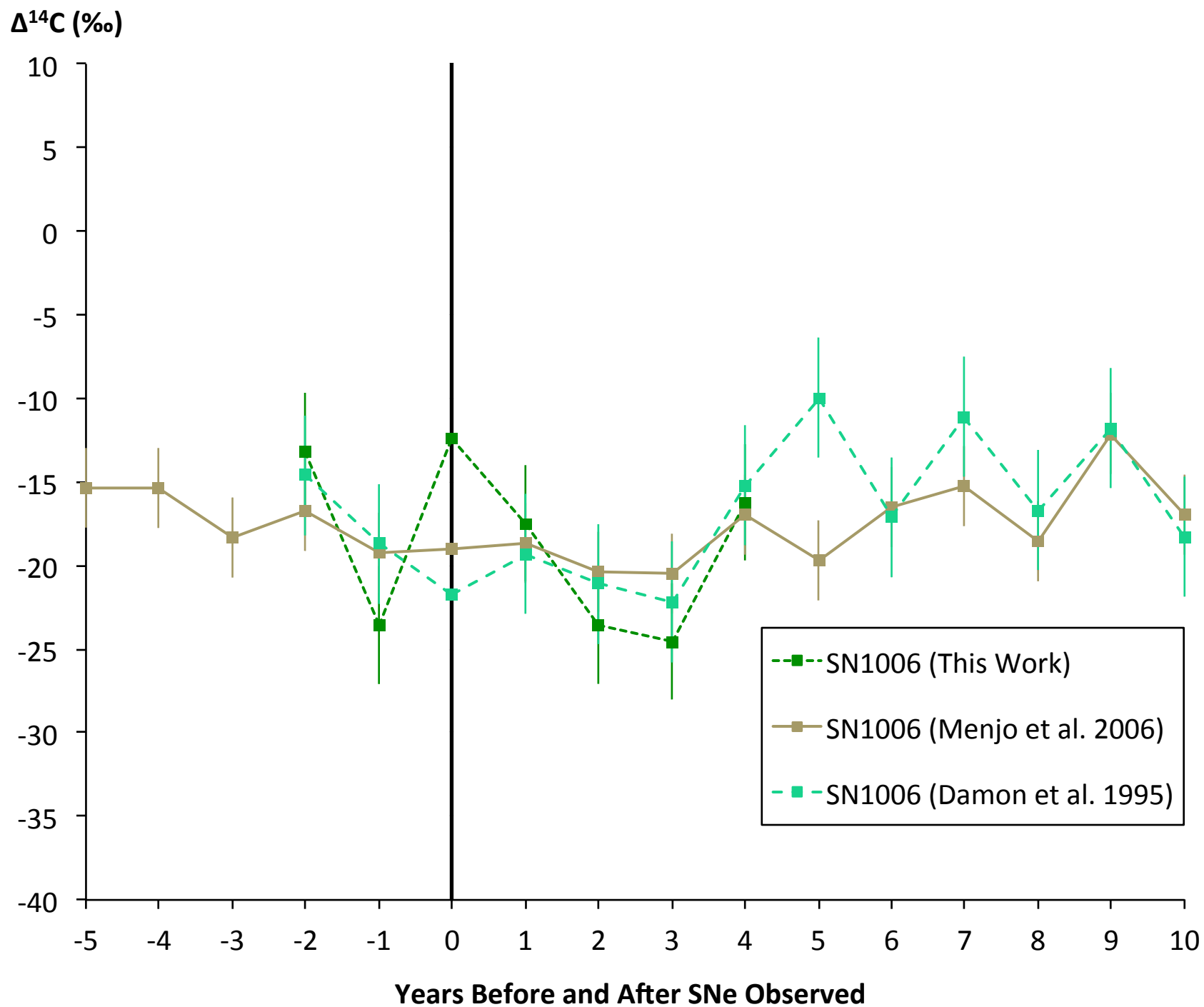


Table S1: All Data																											
(AD)	Year	ORAU		Damon et al. (1995)		Menjo et al. (2005)		Miyake et al. (2012)		Reimer et al. (2013)		Jull et al. (2013, Russia)		Jull et al. (2013, USA)		Miyake et al. (2013)		Usoskin et al. (2013)		Miyake et al. (2014)		Weighted Averages					
		Relative	$\Delta 14C$ (%)	\pm	$\Delta 14C$ (%)	\pm	$\Delta 14C$ (%)	\pm	$\Delta 14C$ (%)	\pm	$\Delta 14C$ (%)	\pm	$\Delta 14C$ (%)	\pm	$\Delta 14C$ (%)	\pm	$\Delta 14C$ (%)	\pm	$\Delta 14C$ (%)	\pm	$\Delta 14C$ (%)	\pm	$\Delta 14C$ (%)	\pm			
6 BC	-1	-13.3	3.6																				-13.3	3.6	ORAU		
5 BC	0	-15.1	3.8																				-15.1	3.8	ORAU		
4 BC	1	-15.0	3.7																				-15.0	3.7	ORAU		
3 BC	2	-15.7	3.6																				-15.7	3.6	ORAU		
2 BC	3	-15.0	2.4																				-15.0	2.4	ORAU		
1 BC	4	-16.1	3.6																				-16.1	3.6	ORAU		
183	-2	-19.6	3.5																				-19.6	3.5	ORAU		
184	-1	-31.1	3.5																				-31.1	3.5	ORAU		
185	0	-22.5	3.4																				-22.5	3.4	ORAU		
186	1	-32.7	3.4																				-32.7	3.4	ORAU		
187	2	-20.7	3.5																				-20.7	3.5	ORAU		
188	3	-31.5	3.5																				-31.5	3.5	ORAU		
769	-5											-16.2	4.8	-12.2	3.6					-20.8	2.4		-17.9	1.8	Jull et al. 2013; Usoskin et al. 2013		
770	-4							-18.5	1.2			-18.1	3.5	-19.9	3.5					-18.8	2.2		-18.6	1.0	Miyake et al. 2012; Jull et al. 2013; Usoskin et al. 2013		
771	-3							-21.7	2.7			-15.2	4.0	-16.6	3.5					-15.6	2.2		-17.4	1.4	Miyake et al. 2012; Jull et al. 2013; Usoskin et al. 2013		
772	-2							-17.7	1.2			-17.2	3.5	-15.2	3.6					-17.1	2.7		-17.4	1.0	Miyake et al. 2012; Jull et al. 2013; Usoskin et al. 2013		
773	-1							-23.2	2.8			-18.3	3.5	-17.4	3.5					-22.3	2.5		-20.9	1.5	Miyake et al. 2012; Jull et al. 2013; Usoskin et al. 2013		
774	0							-17.7	1.5			-11.6	3.5	-17.1	3.5					-18.3	2.8		-17.1	1.2	Miyake et al. 2012; Jull et al. 2013; Usoskin et al. 2013		
775	1							-5.8	1.8			-2.4	4.9	-3.2	3.5					-5.0	2.8		-5.0	1.3	Miyake et al. 2012; Jull et al. 2013; Usoskin et al. 2013		
776	2							-2.5	1.5			2.2	3.6	-3.6	3.6					1.2	2.7		-1.4	1.2	Miyake et al. 2012; Jull et al. 2013; Usoskin et al. 2013		
777	3							-5.3	1.8			1.6	3.5	-3.2	3.5					6.8	2.8		-1.5	1.3	Miyake et al. 2012; Jull et al. 2013; Usoskin et al. 2013		
778	4							-4.7	1.5			0.6	3.8	-7.9	2.8					-1.6	2.8		-4.2	1.1	Miyake et al. 2012; Jull et al. 2013; Usoskin et al. 2013		
779	5							-7.2	1.8			0.0	3.6	-8.9	2.8					-1.9	2.8		-5.6	1.2	Miyake et al. 2012; Jull et al. 2013; Usoskin et al. 2013		
780	6							-6.0	1.8			-6.1	3.0	-7.4	2.9					-2.5	2.8		-5.6	1.2	Miyake et al. 2012; Jull et al. 2013; Usoskin et al. 2013		
781	7											-7.0	2.7	-8.2	3.1								-7.5	2.0	Jull et al. 2013		
782	8											-3.5	3.1	-5.6	4.0								-4.3	2.5	Jull et al. 2013		
783	9											-8.8	3.5	-8.9	2.7								-8.9	2.1	Jull et al. 2013		
784	10											-3.3	2.9	-11.0	2.8								-7.3	2.0	Jull et al. 2013		
988	-5																						-21.9	1.8	-21.9	1.8	Miyake et al. 2013; Miyake et al. 2014
989	-4																						-21.3	1.8	-20.8	1.3	Miyake et al. 2013; Miyake et al. 2014
990	-3																						-25.3	1.7	-23.2	1.5	Miyake et al. 2013; Miyake et al. 2014
991	-2																						-23.1	1.9	-22.1	1.2	Miyake et al. 2013; Miyake et al. 2014
992	-1																						-22.8	2.0	-24.4	1.9	Miyake et al. 2013; Miyake et al. 2014
993	0																						-20.7	1.6	-25.3	1.7	Miyake et al. 2013; Miyake et al. 2014
994	1																						-11.5	2.0	-14.0	1.8	Miyake et al. 2013; Miyake et al. 2014
995	2																						-12.9	1.5	-18.1	1.7	Miyake et al. 2013; Miyake et al. 2014
996	3																						-11.3	2.0	-16.7	1.7	Miyake et al. 2013; Miyake et al. 2014
997	4																						-14.2	2.0	-16.4	1.7	Miyake et al. 2013; Miyake et al. 2014
998	5																						-15.3	2.0	-15.3	2.0	Miyake et al. 2013; Miyake et al. 2014
999	6																						-13.3	1.6	-13.3	1.6	Miyake et al. 2013; Miyake et al. 2014
1001	8																						-15.0	2.9	-15.0	2.9	Miyake et al. 2013; Miyake et al. 2014
1003	10																						-17.0	2.6	-17.0	2.6	Miyake et al. 2013; Miyake et al. 2014
1001	-5																						-15.3	2.5	-15.3	2.5	Menjo et al. 2005
1002	-4																						-15.4	2.5	-15.4	2.5	Menjo et al. 2005
1003	-3																						-18.4	2.5	-18.4	2.5	Menjo et al. 2005
1004	-2	-13.2	3.4	-14.6	3.9	-16.8	2.5																-15.3	1.8	-15.3	1.8	ORAU; Damon et al. 1995; Menjo et al. 2005
1005	-1	-23.6	3.4	-18.7	4.0	-19.3	2.5																-20.4	1.8	-20.4	1.8	ORAU; Damon et al. 1995; Menjo et al. 2006
1006	0	-12.5	3.2	-21.8	4.0	-19.0	2.5																-17.5	1.8	-17.5	1.8	ORAU; Damon et al. 1995; Menjo et al. 2007
1007	1	-17.5	3.8	-19.3	3.7	-18.6	2.5																-18.5	1.8	-18.5	1.8	ORAU; Damon et al. 1995; Menjo et al. 2008
1008	2	-23.6	3.4	-21.1	3.4	-20.4	1.9																-21.2	1.5	-21.2	1.5	ORAU; Damon et al. 1995; Menjo et al. 2009
1009	3	-24.5	3.5	-22.2	3.8	-20.5	1.9																-21.5	1.5	-21.5	1.5	ORAU; Damon et al. 1995; Menjo et al. 2010
1010	4	-16.2	3.8	-15.2	3.3	-17.0	2.0																-15.5	1.6	-15.5	1.6	Damon et al. 1995; Menjo et al. 2011
1011	5			-10.0	3.5	-19.7	2.0																-17.3	1.7	-17.3	1.7	Damon et al. 1995; Menjo et al. 2012
1012	6			-17.1	3.3	-16.5	2.0																-16.7	1.7	-16.7	1.7	Damon et al. 1995; Menjo et al. 2013
1013	7			-11.1	3.2	-15.3	2.0																-14.1	1.7	-14.1	1.7	Damon et al. 1995; Menjo et al. 2014
1014	8			-16.7	3.0	-18.5	2.8																-17.7	2.1	-17.7	2.1	Damon et al. 1995; Menjo et al. 2015
1015	9			-11.8	4.1	-12.1	2.8																-12.0	2.3	-12.0	2.3	Damon et al. 1995; Menjo et al. 2016
1016	10			-18.3	3.4	-17.0	2.8																-17.5	2.2	-17.5	2.2	Damon et al. 1995; Menjo et al. 2017
1052	-4					-11.5	2.8																-11.5	2.8	-11.5	2.8	Menjo et al. 2005
1054	0					-7.8	2.8																-7.8	2.8	-7.8	2.8	Menjo et al. 2005
1056	2					-2.2	2.8																-2.2	2.8	-2.2	2.8	Menjo et al. 2005
1058	4					-7.5	2.8																-7.5	2.8	-7.5	2.8	Menjo et al. 2005
1060	6					-8.4	2.8																-8.4	2.8	-8.4	2.8	Menjo et al. 2005
1062	8					-7.1	2.8																-7.1	2.8	-7.1	2.8	Menjo et al. 2005
1064	10					-10.1	2.8																-10.1	2.8	-10.1	2.8	Menjo et al. 2005
1567	-5																						-13.3	2.8	-13.3	2.8	Menjo et al. 2005
1568	-4											4.2	1.7										-4.2	1.7	-4.2	1.7	Reimer et al. 2013
1569	-3											5.6	2.3										4.4	2.5	4.4	2.5	Reimer et al. 2013
1570	-2											3.5	1.7										5.6	2.3	5.6	2.3	Reimer et al. 2013
1571	-1											5.4	2.5										3.5	1.7	3.5	1.7	Reimer et al. 2013
1572	0											6.3	2.3										5.4	2.5	5.4	2.5	Reimer et al. 2013
1573	1</																										

Name	Lab Ref	Calendar Year	¹⁴ C Date (BP)	± (σ)	δ ¹³ C (PDB)
SB	OxA-30923	6 BCE	2007	29	-23.7
	OxA-30924	5 BCE	2021	31	-24.7
	OxA-30925	4 BCE	2019	30	-25.0
	OxA-30926	3 BCE	2024	29	-24.3
	OxA-30927	2 BCE	1982	30	-22.5
	OxA-31890	2 BCE	2044	26	-22.5
	OxA-30928	1 BCE	2025	29	-24.0
	SN185	OxA-30877	183 CE	1876	29
OxA-30878		184 CE	1970	29	-20.2
OxA-30879		185 CE	1898	28	-19.8
OxA-30880		186 CE	1981	28	-19.8
OxA-30881		187 CE	1881	29	-19.9
OxA-30882		188 CE	1969	29	-19.5
SN1006		OxA-30888	1004 CE	1026	28
	OxA-30889	1005 CE	1110	28	-24.9
	OxA-30559	1006 CE	1018	26	-24.7
	OxA-30964	1007 CE	1058	31	-24.7
	OxA-30965	1008 CE	1107	28	-24.4
	OxA-30966	1009 CE	1114	29	-24.6

Table S2. Further details of the radiocarbon dates obtained by Oxford for this study.