

**[Supplementary material]**

**A prehistoric copper production centre in central Thailand: its dating and wider implications**

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The central Thai sites discussed herein were excavated under the auspices of the Thailand Archaeometallurgy Project (TAP) between 1986 and 1994 which is a joint collaboration between the Thai Fine Arts Department, Bangkok, Thailand and the University of Pennsylvania Museum. TAP is co-directed by Vincent C. Pigott and Surapol Natapintu. The archaeobotanical material used for dating was collected by Steven Weber (Weber et al. 2010; Pigott *et al.* 2006). Jade d'Alpoim Guedes and Sydney Hanson have worked with Prof. Weber to complete the identifications analysis and interpretations of the enormous TAP flotation sample collection (d'Alpoim Guedes *et al.* 2020).

## Radiocarbon dating results

**Table S1. Samples newly reported in this paper (symbols in column 1 denote duplicate measurements on the same sample). Samples are given an OxA-X prefix when there is some potential problem identified. These are shown in comments in the right hand columns.**

OxA	P	Site	Sample	Material	Species	Radiocarbon Date BP	±	δ <sup>13</sup> C (per mille)	Lab comment
35096	42429	Nil Kham Haeng	NKH_2240	Charred seeds	<i>Oryza</i> sp.	2446	25	-25.4	
35273	42430	Nil Kham Haeng	NKH_2394	Charred seeds	<i>Setaria italica</i>	2495	80	-9.3	
35097	42431	Nil Kham Haeng	NKH_4222	Charred seeds	<i>Oryza</i> sp.	2502	25	-25.4	
35274	42432	Nil Kham Haeng	NKH_4432	Charred seeds	<i>Setaria italica</i>	2420	70	-9.9	
X-2716- 23	42433	Nil Kham Haeng	NKH_5070	Charred seeds	<i>Setaria italica</i>	2493	36	-24.6	This sample had ~50% of the expected graphite target current in the AMS
35098	42436	Nil Kham Haeng	NKH_14447	Charred seeds	<i>Oryza</i> sp.	2506	27	-24.0	
35275	42437	Nil Kham Haeng	NKH_14990	Charred seeds	<i>Setaria italica</i>	2405	60	-8.6	

35276	42438	Nil Kham Haeng	NKH_15476	Charred seeds	<i>Setaria italica</i>	2470	70	-7.7	
35277	42439	Nil Kham Haeng	NKH_15485	Charred seeds	<i>Setaria italica</i>	2480	65	-8.0	
35278	42440	Nil Kham Haeng	NKH_15492	Charred seeds	<i>Setaria italica</i>	2465	70	-8.7	
35099	42441	Nil Kham Haeng	NKH_15852	Charred seeds	<i>Setaria italica</i>	2543	26	-8.0	
35279	42442	Nil Kham Haeng	NKH_15889	Charred seeds	<i>Setaria italica</i>	2430	80	-8.9	
35280	42443	Nil Kham Haeng	NKH_15900	Charred seeds	<i>Setaria italica</i>	2485	60	-8.9	
35281	42444	Nil Kham Haeng	NKH_16099	Charred seeds	<i>Setaria italica</i>	2875	80	-8.6	
35100	42445	Nil Kham Haeng	NKH_4553	Charred seeds	<i>Setaria italica</i> (see comment)	2422	27	-24.9	Note that the $\delta^{13}\text{C}$ value for this sample indicates it is a $\text{C}_3$ plant and therefore not millet.

35282	42446	Nil Kham Haeng	NKH_4580	Charred seeds	<i>Setaria italica</i> (see comment)	2480	60	-22.1	The $\delta^{13}\text{C}$ value for this sample indicates it is a C <sub>3</sub> plant and therefore not millet.
35101	42447	Nil Kham Haeng	NKH_1236	Charred seeds	<i>Setaria italica</i> (see comment)	2447	26	-25.0	The $\delta^{13}\text{C}$ value for this sample indicates it is a C <sub>3</sub> plant and therefore not millet.
35283	42448	Nil Kham Haeng	NKH_13672	Charred seeds	<i>Setaria italica</i>	2560	70	-8.9	
35290	42637	Nil Kham Haeng	NKH_15899	Charred seeds	<i>Setaria italica</i>	2560	80	-8.1	
35291	42639	Nil Kham Haeng	NKH_15898	Charred seeds	<i>Setaria italica</i>	2570	80	-8.4	
35292	42640	Nil Kham Haeng	NKH_7016	Charred seeds	<i>Setaria italica</i> (see comment)	7520	140	-18.9	The $\delta^{13}\text{C}$ value for this sample indicates it is a C <sub>3</sub> plant and therefore not millet.
35293	42641	Nil Kham Haeng	NKH_4646	Charred seeds	<i>Setaria italica</i>	2515	80	-8.4	

35294	42642	Nil Kham Haeng	NKH_8338	Charred seeds	<i>Setaria italica</i>	3155	60	-11.4	
35295	42644	Nil Kham Haeng	NKH_2654	Charred seeds	<i>Setaria italica</i>	2805	75	-10.6	
35296	42645	Nil Kham Haeng	NKH_4639	Charred seeds	<i>Setaria italica</i>	2690	65	-10.1	
35297	42646	Nil Kham Haeng	NKH_16002	Charred seeds	<i>Setaria italica</i>	2640	55	-10.1	
35298	42647	Nil Kham Haeng	NKH_13289	Charred seeds	<i>Setaria italica</i>	2600	75	-12.1	
35299	42648	Nil Kham Haeng	NKH_8324	Charred seeds	<i>Setaria italica</i>	4040	60	-12.1	
35300	42649	Nil Kham Haeng	NKH_4209	Charred seeds	<i>Setaria italica</i>	2920	75	-11.1	
35301	42650	Nil Kham Haeng	NKH_8316	Charred seeds	<i>Setaria italica</i>	2590	65	-10.4	
35302	42652	Nil Kham Haeng	NKH_15477	Charred seeds	<i>Setaria italica</i>	2630	75	-11.1	
37977	46240	Nil Kham Haeng	3895	Charcoal		2466	25	-23.2	

37978	46240	Nil Kham Haeng	3895	Charcoal		2489	24	-23.8	These two samples pass the $\chi^2$ test (t=0.44; $\chi^2$ =3.84)
37496	45297	Non Mak La	T31124/CO57	Seeds	<i>Spilanthes</i>	3076	39	-28.1	
X-2796-23	46072	Non Mak La	Lot 61	Seeds	<i>Spilanthes</i>	3290	40	-28.2	Lower than expected graphite target current.
X-2796-24	46073	Non Mak La	Lot 36	Seeds	<i>Spilanthes</i>	2840	36	-27.7	Lower than expected graphite target current.
X-2796-26	46074	Non Mak La	Lot 53	Seeds	<i>Spilanthes</i>	2710	60	-28.8	Lower than expected graphite target current.
X-2796-25	46075	Non Mak La	Lot 56	Seeds	<i>Spilanthes</i>	3270	40	-27.7	Lower than expected graphite target current.
38039	46076	Non Mak La	T31593/Lot 106	Seeds	<i>Spilanthes</i>	3009	30	-27.4	
X-2796-27	46077	Non Mak La	T32068/Lot 61	Charcoal		3195	40	-23.6	Lower than expected graphite target current.
37979	46241	Non Mak La	19804	Charcoal		1172	25	-27.5	
38064	46242	Non Mak La	19416	Charcoal		2921	25	-25.6	
38043	46243	Non Mak La	32004	Charcoal		3097	28	-26.6	This sample had a very low combustion yield (23% C). The

									sample might be degraded and poorly preserved, or non-homogeneous.
38126	46244	Non Mak La	32005	Charcoal		2798	29	-24.9	
37979	46241	Non Mak La	19804	Charcoal		1172	25	-27.4	
30617	36117	Non Pa Wai	T11722	Shell		3656	32	-5.8	
30618	36118	Non Pa Wai	T15169	Shell		3420	31	-4.7	
35284	42603	Non Pa Wai	T14125	Charred seeds	<i>Setaria italica</i>	3060	80	-7.6	
35399	42605	Non Pa Wai	T14049	Charred seeds	<i>Setaria italica</i>	2925	40	-8.5	
35285	42609	Non Pa Wai	T14104	Charred seeds	<i>Setaria italica</i>	3020	90	-8.1	
35286	42610	Non Pa Wai	T14137	Charred seeds	<i>Setaria italica</i>	3030	90	-7.9	
35287	42611	Non Pa Wai	T14109	Charred seeds	<i>Setaria italica</i>	2870	80	-8.6	
35288	42614	Non Pa Wai	T14066	Charred seeds	<i>Setaria italica</i>	3060	90	-7.6	

35289	42615	Non Pa Wai	T14101	Charred seeds	<i>Setaria italica</i>	2885	65	-7.7	
37440	45302	Non Pa Wai	C118 T12156	Charcoal	<i>not known</i>	2401	26	-27.2	
37430	45303	Non Pa Wai	C123 T13224	Charcoal	<i>not known</i>	2731	26	-25.3	
37431	45304	Non Pa Wai	C126 T13462	Charcoal	<i>not known</i>	2789	26	-25.4	
37432	45305	Non Pa Wai	C129 T13536	Charcoal	<i>not known</i>	2785	26	-24.4	
37312	45306	Non Pa Wai	C131 T13741	Charcoal	<i>not known</i>	3611	28	-25.6	
X-2796-19	46056	Non Pa Wai	Lot 87 T 8968; 8967	Seeds	One <i>Setaria italica</i> + two undet. panicoid grass immature	3270	140	-9.1	Very low graphite target current, hence poor precision.
37960	46057	Non Pa Wai	Lot 47 T13197	Charcoal	Single entity Parenchyma ct, Chenopodium ct, Spilanthes	2717	26	-26.2	
37961	46059	Non Pa Wai	Lot 29 T7727	Charcoal		191	22	-25.9	



37962	46061	Non Pa Wai	Lot 137 T10957	Charcoal		2809	28	-24.8	
37963	46062	Non Pa Wai	Lot 23 T11717	Charcoal		280	22	-26.4	
X-2796- 20	46063	Non Pa Wai	Lot 31 T11876	Undet. seeds		1.58693 fM	0.00528	-25.4	This is a post-bomb measurement equivalent to 1967- 1968 AD
37964	46064	Non Pa Wai	Lot 31 T11899	charcoal		3000	33	-26.5	
37965	46065	Non Pa Wai	Lot 67 T11919	<i>Poaceae</i> sp.		445	22	-27.1	
38115++	46066	Non Pa Wai	Lot 161 T12428	Charcoal		2487	27	-25.0	These two samples pass the $\chi^2$ test ( $t=3.78$ ; $\chi^2 =3.84$ )
38114++	46066	Non Pa Wai	Lot 161 T12428	Charcoal		2564	29	-24.8	
38037	46067	Non Pa Wai	Lot 47 T13197	Charcoal		383	25	-24.3	
38038	46068	Non Pa Wai	Lot 144 T14066	Charcoal		2909	27	-25.7	
38003	46070	Non Pa Wai	Lot 60 T14395	Charcoal		2890	25	-25.9	
X-2796- 22	46071	Non Pa Wai	Lot 183 T15915	Seed fragments		3487	38	-23.0	Lower than expected graphite target current.
37980	46246	Non Pa Wai	Lot 111 14742	Charcoal		2972	26	-27.0	
37981	46247	Non Pa Wai	Lot 151 15598	Charcoal		2905	27	-25.7	

X-2796-32	46248	Non Pa Wai	Lot 63 10512	Charcoal		2880	60	-25.2	This sample had a low combustion value (%C was 23.7%).
37982	46249	Non Pa Wai	Lot 65 10528	Charcoal		2460	26	-26.1	
37983	46250	Non Pa Wai	Lot 78 11760	Charcoal		2475	26	-25.9	
38065	46251	Non Pa Wai	Lot 79 11790	Charcoal		2430	25	-25.5	
38066	46252	Non Pa Wai	Lot 83 11286	Charcoal		2682	25	-25.5	
38067	46253	Non Pa Wai	Lot 86 12760	Charcoal		2508	26	-27.5	
38068	46254	Non Pa Wai	Lot 153 10942	Charcoal		2865	26	-24.5	
38069	46255	Non Pa Wai	Lot 157 12411	Charcoal		2904	26	-24.8	
38070	46256	Non Pa Wai	Lot 19 6744	Charcoal		2446	24	-24.6	
38071	46257	Non Pa Wai	Lot 22 7146	Charcoal		2848	25	-25.4	
38151^^	46258	Non Pa Wai	Lot 31 11899	Charcoal		2750	45	-25.5	These two samples pass the $\chi^2$ test (t=1.37; $\chi^2$ =3.84)
38127^^	46258	Non Pa Wai	Lot 31 11899	Charcoal		2688	28	-26.4	
38072**	46259	Non Pa Wai	Lot 43 13404	Charcoal		2814	25	-25.3	These two samples pass the $\chi^2$ test (t=0.15; $\chi^2$ =3.84)
38073**	46259	Non Pa Wai	Lot 43 13404	Charcoal		2800	26	-25.6	
38074	46260	Non Pa Wai	Lot 47 13532	Charcoal		2971	25	-24.7	
38395	46261	Non Pa Wai	Lot 54 14382	Charcoal		2984	20	-24.9	

**Table 2. Analytical data corresponding with the samples in Table 1. Used is the weight used in pretreatment measured in milligrams. Yield is the pretreatment yield and %Yld is this value as a reflection of the total weight. %C is the amount of carbon produced in the combustion of the sample prior to graphisation. The  $\delta^{13}\text{C}$  value is reflected in per mille and measured against VPDB. OX is an acid hydrolysis pretreatment for shell carbonates. The charcoal samples were treated with one of two techniques (see PCode column). Samples listed with the term "ZR" denote those prepared with the standard ABA protocol at the ORAU. This involves a 1M HCl wash at 80°C (for 1 hour), a rinse with hot 0.1M NaOH (1 hr) and a final HCl wash for the same period of time. Interspersed within each wash the sample is rinsed to neutral pH with MilliQ™ distilled water. Samples with the code "RR" were treated using a milder version of the ZR treatment, incorporating a 1M HCl wash at room temperature (RT), followed by rinsing with distilled water, a further acid wash in HCl at RT with 0.1 M acid, and a final water rinse. This method is used where the material being treated is fragile, small or fragmented (see Brock *et al.* 2010 for more details). "OX" refers to samples treated using an acid digestion using orthophosphoric acid designed to extract carbon dioxide from the calcium carbonate for AMS dating. "VV" denotes a pre-wash with a solvent extraction prior to the ZR ABA treatment.**

OxA	P	PCode	Material	Used (mg)	Yield (mg)	%Yld	%C	$\delta^{13}\text{C}$ (per mille)
30617	36117	OX	Shell	42.68	4.62	10.8	104	-5.8
30618	36118	OX	Shell	40.44	4.36	10.8	104.3	-4.7
35096	42429	RR	Charred seeds	5.1	3.12	61.2	59	-25.4
35097	42431	RR	Charred seeds	4.04	2.64	65.3	64.3	-25.4
35098	42436	ZR	Charred seeds	5.3	4.02	75.8	58.3	-24.0
35099	42441	RR	Charred seeds	4.07	2.77	68.1	59.2	-8.0
35100	42445	ZR	Charred seeds	34.96	14.84	42.4	64.1	-24.9

35101	42447	ZR	Charred seeds	15.37	5.73	37.3	63.4	-25.0
35273	42430	RR	Charred seeds	0.77	0.33	42.9	59.9	-9.3
35274	42432	RR	Charred seeds	0.7	0.28	40	73.6	-9.9
35275	42437	RR	Charred seeds	1.23	0.84	68.3	60.5	-8.6
35276	42438	RR	Charred seeds	0.98	0.34	34.7	70.9	-7.7
35277	42439	RR	Charred seeds	0.78	0.44	56.4	67.7	-8.0
35278	42440	RR	Charred seeds	0.66	0.38	57.6	55	-8.7
35279	42442	RR	Charred seeds	0.48	0.38	79.2	60.2	-8.9
35280	42443	RR	Charred seeds	1.36	0.73	53.7	61.4	-8.9
35281	42444	RR	Charred seeds	0.5	0.27	54	55	-8.6
35282	42446	RR	Charred seeds	1.18	0.73	61.9	60.6	-22.1
35283	42448	RR	Charred seeds	0.84	0.66	78.6	57.2	-8.9
35284	42603	RR	Charred seeds	0.78	0.23	29.5	71.3	-7.6
35285	42609	RR	Charred seeds	0.66	0.23	34.8	57.7	-8.1
35286	42610	RR	Charred seeds	0.88	0.17	19.3	73.3	-7.9
35287	42611	RR	Charred seeds	1	0.42	42	43.8	-8.6
35288	42614	RR	Charred seeds	0.67	0.19	28.4	73.7	-7.6
35289	42615	RR	Charred seeds	1.56	0.71	45.5	56	-7.7
35290	42637	RR	Charred seeds	1.24	0.31	25	44.1	-8.1
35291	42639	RR	Charred seeds	0.54	0.22	40.7	76.4	-8.4
35292	42640	RR	Charred seeds	0.34	0.23	67.6	51.5	-18.9

35293	42641	RR	Charred seeds	0.87	0.31	35.6	50.6	-8.4
35294	42642	RR	Charred seeds	1.3	0.55	42.3	79.9	-11.4
35295	42644	RR	Charred seeds	0.59	0.3	50.8	44.7	-10.6
35296	42645	RR	Charred seeds	0.88	0.5	56.8	62.4	-10.1
35297	42646	RR	Charred seeds	1.5	1.03	68.7	59	-10.1
35298	42647	RR	Charred seeds	0.3	0.2	66.7	86.2	-12.1
35299	42648	RR	Charred seeds	1.11	0.76	68.5	55.5	-12.1
35300	42649	RR	Charred seeds	0.56	0.36	64.3	70.3	-11.1
35301	42650	RR	Charred seeds	0.94	0.42	44.7	70.2	-10.4
35302	42652	RR	Charred seeds	0.41	0.4	97.6	40.7	-11.1
X-2716-23	42433	RR	Charred seeds	6.99	1.24	17.7	63.8	-24.6
35399	42605	RR	Charred seeds	2.04	0.76	37.3	77.2	-8.5
37312	45306	ZR	Charcoal	76.4	50.9	66.6	65	-25.6
37440	45302	ZR	Charcoal	95	59.8	62.9	60.2	-27.2
37430	45303	ZR	Charcoal	104	83.3	80.1	64.8	-25.3
37431	45304	ZR	Charcoal	101	57.2	56.6	61.3	-25.4
37432	45305	ZR	Charcoal	94	24.9	26.5	55.9	-24.4
37496	45297	VV	Seeds	1.59	0.43	27	62	-28.1
37960	46057	ZR	Charcoal	21.64	15.5	71.6	62.3	-26.2
37961	46059	ZR	Charcoal	13.82	8.51	61.6	65.8	-25.9
37962	46061	ZR	Charcoal	10.15	5.58	55	62.2	-24.8

37963	46062	ZR	Charcoal	7.54	4.76	63.1	62.4	-26.4
37964	46064	ZR	Charcoal	23.87	13.87	58.1	60.2	-26.5
37965	46065	RR	Charcoal	4.45	3.25	73	59	-27.1
38003	46070	RR	Charcoal	6.52	2.8	42.9	63	-25.9
37977	46240	ZR	Charcoal	44	20.17	45.8	66.8	-23.2
37978	46240	ZR	Charcoal	72	27.14	37.7	69	-23.8
37979	46241	ZR	Charcoal	104	58.8	56.5	69.7	-27.5
37980	46246	ZR	Charcoal	52	24.4	46.9	66.5	-27.0
37981	46247	ZR	Charcoal	74	18.95	25.6	67.9	-25.7
37982	46249	ZR	Charcoal	70	39.68	56.7	58.3	-26.1
37983	46250	ZR	Charcoal	52	29.74	57.2	67.8	-25.9
38037	46067	RR	Charcoal	3.07	2.29	74.6	57.3	-24.3
38038	46068	RR	Charcoal	12.07	2.29	19	48.7	-25.7
38039	46076	RR	Seeds	3.59	1.5	41.8	37.5	-27.4
38043	46243	ZR	Charcoal	96	37.36	38.9	23.9	-26.6
38064	46242	ZR	Charcoal	62	40.52	65.4	69.4	-25.6
38065	46251	ZR	Charcoal	51	25.15	49.3	55.6	-25.5
38066	46252	ZR	Charcoal	63	29.02	46.1	66.1	-25.5
38067	46253	ZR	Charcoal	6602	25.55	0.4	63.7	-27.5
38068	46254	ZR	Charcoal	20.69	13.88	67.1	65.7	-24.5
38069	46255	ZR	Charcoal	93.85	58.41	62.2	67.2	-24.8

38070	46256	ZR	Charcoal	50.49	32.76	64.9	65.6	-24.6
38071	46257	ZR	Charcoal	79.85	58.6	73.4	68.3	-25.4
38151	46258	ZR	Charcoal	53.96	32.18	59.6	64.2	-25.5
38072	46259	ZR	Charcoal	43.41	30.39	70	64.9	-25.3
38073	46259	ZR	Charcoal	35.28	23.28	66	64.7	-25.6
38074	46260	ZR	Charcoal	17.87	7.71	43.1	66.6	-24.7
38114	46066	ZR	Charcoal	16.73	8.16	48.8	64.2	-24.8
38115	46066	ZR	Charcoal	23.67	11.3	47.7	66.3	-25.0
38126	46244	ZR	Charcoal	76	35.32	46.5	62.9	-24.9
38127	46258	ZR	Charcoal	53.96	32.18	59.6	65	-26.4
X-2796-19	46056	RR	Seeds	0.92	0.43	46.7	55.9	-9.1
X-2796-20	46063	RR	Seeds	0.84	0.65	77.4	67.1	-25.4
X-2796-22	46071	RR	Seeds	1.85	0.75	40.5	48	-23.0
X-2796-23	46072	RR	Seeds	2.51	0.45	17.9	59.1	-28.2
X-2796-24	46073	RR	Seeds	2.07	1.22	58.9	31.1	-27.7
X-2796-26	46074	RR	Seeds	0.65	0.32	49.2	38.2	-28.8
X-2796-25	46075	RR	Seeds	1.89	0.54	28.6	66.3	-27.7
X-2796-27	46077	RR	Charcoal	5.96	0.3	5	95.2	-23.6
X-2796-32	46248	ZR	Charcoal	0.58	0	0	23.7	-25.2
38395	46261	ZR	Charcoal	17.41	11.48	65.9	67.6	-24.9

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