

Technology, subsistence strategies and cultural diversity in South Sulawesi, Indonesia, during the Toalean Mid-Holocene period: Recent advances in research

Table 1: List of sites and dates mentioned in the text

Regency	cluster	site name	alternative names/spelling	type of site	Pleistocene	Toalean	post-Toalean	other/unknown	rock art	human remains	published excavation dates: BP (cal BP)*	U-series rock art dates	main references
Bantaeng	Batu Ejayya	Batu Ejayya 1	Batu Edjaja/Edjaya, Batoe Edjaja	rockshelter		1	1	1	1		1030±275 (1515–510), 4430±50 (5281–4824), 4370±70 (5284–4868)		Mulvaney and Soejono 1970a: 30 but see Mulvaney and Soejono, 1971, Mulvaney and Soejono, 1970b: 166–167; Bulbeck <i>et al.</i> 2000; Hakim and Suryatman 2013; Suryatman and Hakim 2017; Suryatman 2017
		Batu Ejayya 2		rockshelter		1	1	1			Modern (¹⁴ C), 1796, 1802, and 1816 (coins)		Mulvaney and Soejono 1970a: 30, 1970b: 167–168; Chapman 1981; Bulbeck <i>et al.</i> 2000; Hakim and Suryatman 2013; Suryatman and Hakim 2017
		Bulu' Saraung	Bulu Saraung	cave/rockshelter		1		1			Not obtained		Suryatman 2017; Suryatman and Hakim 2017
		Paenre		cave/rockshelter		1	1				Not obtained		Suryatman 2017; Suryatman and Hakim 2017
		Panganreang Tudea I – IV	Panganreang Tudea	cave/rockshelter		1	1	1			Not obtained		Mulvaney and Soejono 1970b: 169-169;

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													Chapman 1986; Bulbeck <i>et al.</i> 2000; Suryatman 2017; Suryatman and Hakim, 2017
		Pangnganikang	Batu Tuda, Pangnganikang	cave/rockshelter		1	1				Not obtained		Mulvaney and Soejono, 1970b: 168; Suryatman 2017; Suryatman and Hakim 2017
		Pattanungan	Pattenungan, Pattenungang	cave/rockshelter		1	1				Not obtained		Suryatman 2017; Suryatman and Hakim 2017
		Tinggia		cave/rockshelter				1			Not obtained		Suryatman 2017; Suryatman and Hakim 2017
Bone	Bontocani	Anja, Gua <i>Unexcavated</i>		cave			1	1			N.A.		Sardi 2016
		Balang Metti, Leang	Bala Metti, Balang Metti 1, Gua Bala Matti	cave		1	1		1	1	Not obtained		Hakim 2017a; Suryatman <i>et al.</i> 2017; Fakhri 2018
		Batti, Leang	Gua Batti	cave		1	1			1	7991±20 (8991–8655), 6260±19 (7254–7020), 1740±20 (1700–1543)		Hakim 2011; Saiful and Hakim 2016; Suryatman <i>et al.</i> 2020
		Cappalombo, Leang	Leang Capa Lombo 1, Ceruk Cappa Lombo, Capalombo	rockshelter		1				1	5569±20 BP (6396-6305) (mangrove shell)		Sardi 2016; Fakhri 2018; Suryatman <i>et al.</i> 2021
		Lonrae, Ceruk <i>Unexcavated</i>		rockshelter		1	1				N.A.		Sardi 2016

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		Sanggalore, Ceruk <i>Unexcavated</i>		rockshelter				1			N.A.		Sardi 2016
		Tobua, Ceruk <i>Unexcavated</i>		rockshelter			1			1	N.A.		Sardi 2016
Soppeng	Cabenge	Talepu		open	1						118 to 194 ka (various)		van den Bergh <i>et al.</i> 2016
Maros & Pangkep	Leang-Leang	Bomboro chert quarry		open				1			Not obtained		Perston <i>et al.</i> 2021
		Bulu Bettue, Leang	Leang Bulu' Bettué, Leang Sampaeng	cave	1	1	1		1		22,206-21,930 up to 51.8±0.6 ka (various)		Li <i>et al.</i> 2016; Brumm <i>et al.</i> 2017, 2020, 2021a; Langley <i>et al.</i> 2020
		Bulu' Sippong 4, Leang <i>Unexcavated</i>	Leang Bulu' Sipong 4	cave	1				1		N.A.	43.9 ka	Aubert <i>et al.</i> 2019
		Burung 2, Leang	Leang Burung, Burung cave	rockshelter	1		1		1		19-31 ka (various)		Glover, 1981; Brumm <i>et al.</i> 2018
		Jarie, Leang	Leang DjariE/ Djari	cave complex	1	1	1		1	1	518±16 (542–506), 2692±17 (2847–2747), 5091±14 (5904–5746), 7212±18 (8026–7963), 6985±20 (7917–7705), 6973±21 (7911–7691)	34.98±0.41 & 39.67±0.32 ka	Aubert <i>et al.</i> 2014; Hakim 2017a; Suryatman <i>et al.</i> 2019; Fakhri and Hakim 2019; Fakhri <i>et al.</i> 2021

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		Karama, Gua <i>Unexcavated</i>		cave					1		N.A.		Hakim <i>et al.</i> 2009	
		Karassak, Leang	Karrasa, Leang Karassa', Leangkerassak	rockshelter		1	1		1	1	370±50 (497–310), 2690±60 (2950–2714)		van Heekeren 1957: 89–90; Mulvaney and Soejono 1970b: 175; Bulbeck <i>et al.</i> 2000: 77–78	
		Pasaung, Gua		cave		1					6026±70 (7153–6667)		Hakim <i>et al.</i> 2009	
		Rakkoe, Leang	Ceruk Rakkoe	rockshelter		1		1	1		Not obtained		Perston <i>et al.</i> 2020	
		Sakapao, Leang	Sakapao 1, Leang	cave	1		1	1	1		25,120±260 (29,962–28,868), 28,490±280 (33,593–31,847), 31,280±570 (36,830–34,572), 25,390±310 (30,251–29,057)		Bulbeck <i>et al.</i> 2004	
		Tedongnge, Leang <i>Unexcavated</i>		cave	1					1		N.A.	43.9 ka	Brumm <i>et al.</i> 2021c
		Timpuseng, Leang <i>Unexcavated</i>		cave	1					1		N.A.	36.90±1.60 ka, 40.70±0.87 ka	Aubert <i>et al.</i> 2014
Maros		Panninge, Leang	Leang Panning'ng'e/	cave		1	1	1		1	1594 ± 23 (1526–1404) to 8261 ± 36 (9403–9031) (various)		Hasanuddin 2017; Saiful and Anggraeni 2019; Carlhoff <i>et al.</i> 2021	

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			Panning/ Panningnge										
		Mallawa		open			1	1			2281±46 (2350–2139)		Hakim <i>et al.</i> 2009
Barro		Ralla chert quarry		open				1			Not obtained		Darmawan <i>et al.</i> 1993
		Wessae		open				1			Not obtained		Nur 2000; Utomo 2003
Mallawa		Uttange 1, Liang	Leang Uttange 1	cave		1	1		1		3060±30 (3360–3158), 3330±30 (3630–3452), 5240±30 (6172–5910), 6260 ± 30 (7257–7018)		Hasanuddin <i>et al.</i> 2020

*Calibrated dates were calculated by the authors using an unconstrained mix of IntCal20 (Reimer *et al.* 2020) and SHCal20 (Hogg *et al.* 2020), with a 95.4% confidence interval in OxCal (Version 4.4).