RADIOCARBON DATES FOR TASMANIA, 1956–1984

by Eric A. Colhoun

COLHOUN, E.A., 1985 (31:vii): Radiocarbon dates for Tasmania, 1956–1984. *Pap. Proc. R. Soc. Tasm.* 119:39–54. https://doi.org/10.26749/rstpp.119.39 ISSN 0080-4703. Department of Geography, University of Tasmania, GPO Box 252C, Hobart, 7001, Tasmania. Australia.

A list of radiocarbon dates from Tasmania and Macquarie Island is provided.

Key Words:- radiocarbon dates, Tasmania, Macquarie Island, geomorphology, palynology.

INTRODUCTION

Several hundred ^{14}C dates have been obtained from Tasmania, including Macquarie Island, during geomorphological and palynological studies of the Quaternary in the past three decades. While many dates have been published in the studies concerned others have not, and their existence is not generally known. The appended tables contain all known ^{14}C dates to December 1984, except for dates mainly of archaeological significance which have been compiled by Stockton until 1981.

The locality of the site is shown to the nearest hundred metres by providing a grid reference (GR) consisting of the number (e.g. 31) of the appropriate 1:100 000 sheet (third series) of the Department of Lands, Tasmania, together with six figures indicating eastings and northings. The abbreviation of the sheet number can be restored to the full number by inserting "7" before the first digit of the abbreviation if that digit is 6 or more, "8" if that digit is 5 or less, and by inserting the number "1" between the first and second digits of the abbreviation. Thus "31" is expanded to "8311", "94" to "7914".

All ^{14}C ages are given using the Libby half-life of 5 568 years. Isotope-enriched assays of Groningen University (GrN) are given in brackets and were made using the method of Grootes (1978). An index to laboratory codes immediately follows this introduction.

The inclusion of previously unpublished dates has been made possible by the willingness of the research workers concerned, whose names are noted in brackets in the reference column and whose addresses are listed after the tabulated section.

The purpose of listing the dates is to (1) make their existence known, and (2) to commence a ^{14}C date bank for Tasmania. To allow maintenance of the date bank workers who obtain ^{14}C dates for Tasmania are asked to forward their results to the author in the same form as produced in this listing, for computer storage until a later list is published. Some extant dates may have been inadvertently omitted from the present list. If so, details of the dates concerned would be gratefully received by the author.

LABORATORY CODES

ANU	Australian National University, Canberra, Australia
ARL	Australian Radiometric Laboratories, Sydney, Australia
Beta	Beta Analytic, Coral Gables, Florida, U.S.A.
Gak	Gakushuin University, Tokyo, Japan
GrN	University of Groningen, Netherlands
GX	Geochron Laboratories, Cambridge, Mass., U.S.A.
I	Teledyne Isotopes, Westwood, New Jersey, U.S.A.
NSW	University of New South Wales, Kensington, Australia
NZ	New Zealand, Institute of Nuclear Sciences, Lower Hutt, N.Z.
Pta	CSIR, Pretoria, South Africa
R	University of Rome, Italy
SUA	Sydney University, Australia
UB	Queens University of Belfast, Northern Ireland
V	Institute of Applied Science, Melbourne, Victoria, Australia
Y	Yale University, New Haven, Conn., U.S.A.
W	U.S. Geological Survey, Reston, Virginia, U.S.A.
WK	University of Waikato, New Zealand

TABULATION OF INFORMATION ON RADIOCARBON DATES

TASMANIA

Modern Materials

Site Name	GR Ref	Material	^{14}C	S D	Lab No	Reference	Comment
Adventure Bay	31–294985	shell of *Cellana solida*	114.6	0.9%	SUA 294/2	Gillespie 1977	nuclear test effects in southwestern Pacific
		meat of *C. solida*	117.2	1.1%	SUA 294/2M		
		shell of *Austro-cochlea odontis*	112.9	1.2%	SUA 294/3		
Eaglehawk Neck	41–759377	shell of *Brachio-dontes rostratis*	110.9	0.9%	SUA 294/1	Gillespie 1977	nuclear effects
Lake Gordon	12–tree cut by IXL, location not known	1941–45 wood of *Lagaros-trobos franklinii*					
				$\delta^{13}C$	$\Delta^{14}C$		
		benzene-ethanol extract	-24.8	*318 ± 18*	SUA 5002	Francey *et al.* 1984	pretreatment using solvent/acid/alkali/acid method
		acid extract	-20.1	*-2. ± 9*	SUA 5006		
		alkali extract	-25.1	*107 ± 37*	SUA 5007		
		wood residue	-22.9	*-16 ± 6*	SUA 5005		
		acid extract	-20.1	*21 ± 11*	SUA 5001		pretreatment using acid/alkali/acid method
		alkali extract	-25.0	*226 ± 21*	SUA 5003		
		wood residue	-22.6	*-5 ± 6*	SUA 5000		
Key Island	57–870232	shells of *Subninella undulata*	455	120	GX 7009	(Gill)	coll. 2-1-1956 at spring L.W. Pre A-bomb testing in Pacific
				$\delta^{13}C$	$\Delta^{14}C$		
Stanley River	94–565780	leaf	*-29.6*	*286 ± 9*	SUA 5008	McPhail *et al.* 1983	leaves of *Phyllocladus asplenii-folius* from below and above canopy
		leaf	*-24.0*	*293 ± 7*	SUA 5009	Francey *et al.* 1984	

Aeolian Landforms and Deposits

Site Name	GR Ref	Material	^{14}C	S D	Lab No	Reference	Comment
Bridgewater	32–167682	charcoal	4 540	105	Gak 5593	Sigleo & Colhoun 1982	midden base on dune
Glenfield	32–215696	charcoal carb. wood	210	80	SUA 303	Sigleo & Colhoun 1982	hearths in dune
		charcoal	1 245	80	SUA 304		
		charcoal	2 055	80	SUA 305		
Malcolms Hut Road	32–335643	charcoal	15 740	700	SUA 376	Colhoun 1975	Pleistocene dune
Pipe Clay Lagoon	42–433428	org. sand and clay	19 810	360	SUA 153	Colhoun 1977a	Pleistocene dune-filled wet depression
		org. sand and clay	21 905	440	SUA 153/2		
		org. clay	20 250	360	SUA 152		
		org. clay	25 380	640	SUA 151		
South Arm Beach	31–370352	charcoal	490	110	Gak 6295	(Colhoun)	midden with dune above and below
Rushy Lagoon	56–868758	charcoal	8 300	80	Beta 8190	Cosgrove 1985	hearth 0.4–0.7m depth in lunette
		wood	8 570	135	1–11 448 A	Sigleo & Colhoun 1982	organic beds below Holocene lunette
		hum. acid	8 435	185	1–11 448 B		

Cave Landforms and Deposits

Site Name	GR Ref	Material	^{14}C	S D	Lab No	Reference	Comment
Baldocks Cave	14–452966	charcoal	12 500	+3 300 -2 400	ARL 222	(Kiernan)	base of silt on gravel
Bone Cave	12–557570	charcoal	16 200	+1 200 -1 100	SUA 2104	(Goede)	archaeological site
Breccia Ridge Cave	12–554872	charcoal	7 380	130	Gak 7036	(Goede)	cave entrance deposit
		charcoal	8 290	280	Gak 7034		
Flowery Gully	25–850327	charcoal & bone	7 080	420	Gak 967	Gill 1968	bone bed in cave earth
Frankcombe Cave	12–550910	calcite	3 630	65	Pta 2505	(Goede)	stalagmite
		calcite	5 490	70	Pta 2575		
		calcite	5 790	70	Pta 2574		
		calcite	5 990	70	Pta 2571		
		calcite	6 320	70	Pta 2499		
		calcite	>41 000		SUA 2208		
Lynds Cave	14–357974	calcite	5 250	70	Pta 2979	Goede & Hitchman 1984	stalagmite
		calcite	6 400	20	Pta 3199		
		calcite	8 980	90	Pta 2976		
		calcite	10 300	90	Pta 2975		
		calcite	13 000	30	Pta 3198		
		calcite	14 200	90	Pta 3713		
		calcite	14 500	140	Pta 2972		
		calcite	13 400	130	Pta 3708		
		calcite	12 700	90	Pta 3707		

Cave Landforms and Deposits

Site Name	GR Ref	Material	^{14}C	S D	Lab No	Reference	Comment
Pigsty I Cave	14–413975	bone	23 500	+8300 -4000	ARL 223	(Kiernan)	bone in calcite on gravel
Pleisto Scene Cave	86–230748	bone	1 450	210	R 5001/1	Murray & Goede 1977	bone breccia, unreliable dates
		bone	10 100	200	R 5001/2		
		calcite	17 670	180	Pta 2506	Goede & Harmon 1983	flowstone over bone breccia
Quarry Cave	14–454980	charcoal	1 810	310	ARL 221	(Kiernan)	clay below calcite crust
Titans Shelter	12–557852	charcoal	1 140	90	Gak 6874	Goede & Murray 1979	cave deposits
		charcoal	14 310	+2970 -2160	Gak 6875		cave bone deposit

Coastal Landforms and Marine Sediments

Site Name	GR Ref	Material	^{14}C	S D	Lab No	Reference	Comment
Anthonys Beach	96–471805	shell hash	3 500	60	SUA 1301	Thom *et al.* 1981	barrier transect
		shell hash	1 780	55	SUA 1302		
		shell hash	7 660	75	SUA 1303		
Bowen Bridge	32–250593	org. mud	790	70	SUA 1960	Colhoun & Moon 1984	– 10.5m drill hole 2, piers 2 & 3
		shell	1 490	70	SUA 1961		– 16.1m
		org. mud	3 080	80	SUA 1962		– 19.0m
		shell	2 060	150	SUA 1963		– 26.3m
		shell	4 440	150	SUA 1964		– 29.5m
		org. mud	7 370	140	SUA 1965		– 29.5m
		org. mud	4 490	90	SUA 1966		– 30.0m
		org. mud	9 070	110	SUA 1967		– 35.5m
		shell	9 150	290	SUA 1968		– 38.9m
		shell	9 060	300	SUA 1969		– 40.0m
		org. mud	9 390	110	SUA 1970		– 42.5m
		shell	2 610	100	SUA 1971		– 24.0m pier 6
		shell	2 560	160	SUA 1972		– 32.4m pier 4
		shell	3 190	180	SUA 1973		– 10.3 to – 10.5m drill hole 10
		shell	7 960	320	SUA 1974		– 42.9 to – 43.2m drill hole 2
Cremorne	42–429439	carb. wood	3 620	80	Gak 650	Kigoshi & Kobayashi 1966	beach sands 1.3m above HWMST
Greens Beach	25–787515	shell hash	6 085	90	SUA 1297	Thom *et al.* 1981	barrier transect
		shell hash	38 765	+2700 -2015	SUA 1298		
		shell hash	8 005	90	SUA 1299		
		shell hash	3 770	70	SUA 1300		
Laycocks Beach	15–455429	charcoal & carb. wood	5 990	260	Gak 5618	Colhoun 1983a	present sea level already attained
Marion Bay	42–710572	carb. wood	390	90	Gak 647	Kigoshi & Kobayashi 1966	sample 0.2m asl in barrier beach
Nelsons Drain, Flinders Island	57–010...	shell	21 620	750	Gak 8256	(Ladd)	shell from drain wall

Coastal Landforms and Marine Sediments

Site Name	GR Ref	Material	^{14}C	S D	Lab No	Reference	Comment
Nilinga Creek, Flinders Island	57-865565	shell	3 990	100	SUA 413	(Gill)	beach gravel + 1.8m
Nine Mile Beach	53-905395	shell hash	5 760	80	SUA 1291	Thom *et al.* 1981	barrier transect
		shell hash	9 465	105	SUA 1292		
		shell hash	11 350	125	SUA 1293		
		shell hash	8 770	120	SUA 1294		
		shell hash	11 110	175	SUA 1295		
		shell hash	8 575	105	SUA 1296		
Rheban	42-777777	shell hash	3 445	140	GX 4021	Thom *et al.* 1981	barrier transect
		shell hash	3 550	150	GX 4020		
		shell hash	4 330	125	SUA 768/1		
		wood	815	125	SUA 768/2		
		shell hash	4 750	180	GX 4363		
		shell hash	5 310	150	GX 4022		
		shell hash	4 330	170	GX 4364		
		shell hash	4 340	120	GX 4365		
Rocky Cape	06-743753	shell	<190	—	unknown	(Stephens)	beach 1.8m above HWMST east side of Rocky Cape
	06-.....	shell	3 795	100	V 83		probably west side of Rocky Cape
	06-.....	shell	3 434	95	V 88		
Seven Mile Beach	42-470581	shell	4 140	90	SUA 1486	Thom *et al.* 1981	near base of deposit below swale south of inner beach ridge
Snug	31-211321	shell	510	80	Gak 1143	Kigoshi & Kobayashi 1966	sand 0.7m below HWMST
		shell	2 760	120	Gak 649		sand 1.7m below HWMST
The Jam, Smithton	96-353830	shell	22 700	1100	Gak 652	Kigoshi & Kobayashi 1966	derived Pleistocene shell at -3m
Tinderbox	31-270325	shell	260	70	Gak 648	Kigoshi & Kobayashi 1966	beach 0.5 - 2m above HWMST
Yellow Beaches, Flinders Island	57-064479	wood	3 970	90	Gak 1102	(Gill)	at Lady Barron below Henwoods House

Fluvial Landforms and Deposits

Site Name	GR Ref	Material	^{14}C	S D	Lab No	Reference	Comment
Barilla Valley	32-378583	charcoal	550	80	Gak ?	(Stephens)	alluvial gravel
	32-353572	charcoal	1 160	100	Gak 651	Kigoshi & Kobayashi 1966	alluvial gravel
	32-343564	charcoal	4 650	120	Gak 488		alluvial gravel
		charcoal	7 900	460	Gak 487		alluvial gravel
Blakes Opening	21-690279	charcoal	>29 150		Gak 5587	Colhoun & Goede 1979	alluvium containing organic beds
		charcoal	27 400	2900	Gak 5588		
		charcoal	29 340	+3080 -2220	Gak 5589		
		charcoal	39 600	1000	GrN 7695		

Fluvial Landforms and Deposits

Site Name	GR Ref	Material	^{14}C	S D	Lab No	Reference	Comment
		wood	41 150	+1450 -1250	GrN 7999		
		wood	53 400	+1700 -1400	GrN 8277		
City of Melbourne Bay, King Island	77–535671	wood	37 500	1900	NZ 349	Grant-Taylor & Rafter 1962	*Nothofagus* in alluvium below dune
Coal River	32–371763	charcoal	1 730	110	Gak 1678	Kigoshi *et al.* 1969	alluvium
	32–364668	charcoal	1 990	100	Gak 905		alluvial silty sand
	32–359693	soil carbonate	2 240	110	Gak 2236		pedal coating of alluvium
	32–370662	charcoal	5 480	130	Gak 2238		alluvial sand
	32–363668	charcoal	33 600	+3400 -2400	Gak 906		alluvial gravel reworked
Curries River	25–960501	charcoal	370	100	SUA 1081	(Colhoun & van de Geer)	Holocene & Pleistocene alluvial deposits
		wood	1 460	80	SUA 1082		
		wood	1 280	100	SUA 1043		
		wood	12 570	240	SUA 1083		
Denison River	02–048699	charcoal	310	150	ANU 2787	(Jones & Ranson)	alluvial silt 0.05m below rainforest peat
		plant fragments	13 110	400	SUA 1084		
Narcissus River	13–256484	charcoal	7 650	250	SUA 2079	(Kiernan)	basal 0.2m of alluvium on outwash gravel
Native Hut Rivulet	32–352769	charcoal	4 160	160	Gak 2237	(Goede)	alluvium
Oyster Creek	32–118651	charcoal	3 840	95	I 7931	Wasson 1977	inset fill of alluvial fan
Parramore Creek	32–148671	charcoal	3 575	95	I 7930	Wasson 1977	inset fill of alluvial fan
Pieman Dam	94–472742	wood	>39000		SUA 310	Colhoun 1980	interglacial age alluvium
		wood	>54000		GrN 7555		same piece wood as SUA 310
Rocky Cape	96–726741	charred wood	26 760	1360	Gak 5153	Colhoun 1977b	organic materials in alluvial fan deposits
		wood	28 930	+1970 -1580	Gak 5154		
		charcoal & carb. wood	33 240	+5610 -3270	Gak 5691		
		wood	24 090	1030	Gak 5155		
		charcoal & carb. wood	32 350	+3680 -2510	Gak 5690		
Stanley River	94–565780	wood	100	60	SUA 5015	Francey *et al.* 1984	logs of *Lagarostrobos franklinii* from alluvium listed chronologically
		wood	120	60	SUA 5016		
		wood	630	60	SUA 5021		
		wood	1 190	70	SUA 5014		
		wood	1 210	70	SUA 5013		
		wood	1 580	60	SUA 5011		

Fluvial Landforms and Deposits

Site Name	GR Ref	Material	^{14}C	S D	Lab No	Reference	Comment
		wood	1 980	60	SUA 5012		
		wood	2 050	50	SUA 5010		
		wood	3 680	40	SUA 5023		
		wood	3 750	40	SUA 5025		
		wood	4 090	40	SUA 5027		
		wood	4 670	70	SUA 5019		
		wood	5 500	50	SUA 5020		
		wood	6 190	60	SUA 5004		
		wood	4 080	70	SUA 5018		logs of *Phyllocladus aspleniifolius*
		wood	4 410	50	SUA 5026		
		wood	12 390	80	SUA 5022		outer wood of SUA 5028
		wood	12 870	90	SUA 5028		inner wood of SUA 5022
Tea Tree Rivulet	42–639798	charcoal	3 040	90	Gak 1677	Kigoshi *et al.* 1969, Goede 1973	alluvium
		charcoal	3 850	90	Gak 1148		alluvium
		wood	4 360	90	Gak 1147		alluvium
		wood	4 435	110	GX 99		alluvium
		charcoal	5 720	120	Gak 1289		alluvium
		wood	6 200	200	Gak 1146		same horizon as preceding date

Glacial Landforms and Deposits

Site Name	GR Ref	Material	^{14}C	S D	Lab No	Reference	Comment
Conglomerate Creek	03–815406	wood	30 050	2000	ANU 2535	(Colhoun)	min. age of organic bed between tills
Crooked Lake	12–410893	detritus mud	5 970	100	SUA 1355	(Colhoun and Macphail)	min. age of mud in channel outside lateral moraine
Dante Site on King River	03–902459	wood	18 800	500	ANU 2533	(Kiernan & Colhoun)	twigs in base of outwash silt and sand
		Donatia novae zelandiae	21 180	370	SUA 2154		cushion in alpine humus soil
		wood	20 100	470	SUA 2155		twigs in silt below soil
Fish River Road	14–373746	charcoal	>28000		SUA 1938	(Hannan & Colhoun)	charcoal in lateral moraine
Gormanston	03–834410	wood	1 560	250	ANU 2534	(Kiernan & Colhoun)	wood intrusive in varved clays
Lake Nancy	03–032207	wood & leaf fragments	8 720	220	Gak 671	Peterson 1968	min. age deglaciation
Linda Creek	03–835422	wood	26 480	800	W 323	Gill 1956	wood in varved clays
		wood	>40000	NZ 348	Grant-Taylor & Rafter 1962, 1963	clayey sands of preglacial age	
		wood	27 800	700	ANU 2480A	Colhoun 1985	wood in glacial sands
		α cellulose	23 100	600	ANU 2480B		same wood as ANU 2480A
Mackintosh Dam	04–872825	charcoal	>35000		SUA 1289	Colhoun 1985	till >^{14}C limit

Lake, Swamp and Peat Deposits

Site Name	GR Ref	Material	^{14}C	S D	Lab No	Reference	Comment
Adamsons Peak	21–867004	carbon fragments	9 080	200	I 7571	Macphail & Peterson 1975	2.5m in core in cirque
Badger Beach	25–740507	wood	7 380	100	NZ 1219	Fish & Yaxley 1966	tree stump in intertidal peat bed
		peat	8 020	140	Gak 5622	(Chick)	peat bed at high tide
		peat	7 850	140	Gak 5621		peat bed at mid tide
		peat	31 960	+3400 -2380	Gak 5620		wave-worn peat masses derived from below low tide
Beatties Tarn	22–705752	*Eucalyptus* leaves	9 050	200	Gak 878	Macphail 1979	1.4m in core in cirque lake
		lake mud	7 850	150	SUA 324		1.4–1.65m
		lake mud	11 420	205	SUA 325		3.2–3.4m
Ben Lomond, Rodway Valley	44–557991	wood fragments	3 080	90	Gak 670	Caine 1983	peat over blockstream; formerly Talus Valley
Bird River Track	03–837110	wood	1 290	70	SUA 5017	Francey *et al.* 1984	log of *Lagarostrobos franklinii*
Borradaile Plains	14–318857	peat	10 480	180	Gak 785	(Peterson)	peat from depression in glacial drift
Broad Valley	22–661791	sedges	3 050	104	NSW 29B	Caine 1968	1m depth
	22–659797	sedges	3 500	80	NSW 37B		1.25m depth
Broadmeadows Swamp	36–385733	peat	11 410	770	Gak 5969	(van de Geer *et al.*)	Holocene & late Pleistocene swamp deposits at 0.70, 0.85 & 1.0m
		peat	15 100	750	Gak 7556		
		peat	27 600	+1700 -1430	Gak 6324		
Brown Marsh	23–643305	peat	3 490	90	ANU 2744	Macphail & Hope 1985	2.7m depth in core 2
		peat	8 575	125	I 9558	Macphail 1979	3.1m
		peat	4 930	180	Gak 984	(Peterson)	5.1m depth in core 1
Camerons Lagoon	24–732545	algal gyttja	2 670	70	ANU 3974	(Thomas)	0.2–0.28m in core
			7 500	130	ANU 3976		0.32–0.37m
			7 750	150	ANU 2739		0.52–0.59m
Darwin Crater	03–892153	peat	>51 000		GrN 7694	(Colhoun & van de Geer)	6.32–6.38m in 1972 core
Dublin Bog	14–371815	org. mud	8 920	140	SUA 2191	(Colhoun & Hannan)	4.16–4.21m in core
		org. mud	11 710	190	SUA 2190		6.24–6.29m
		org. mud	13 150	240	SUA 2189		7.34–7.46m
		charcoal in lake clay	13 400	600	SUA 2188		8.30–8.46m
Dyes Marsh	13–485385	peat	4 930	180	Gak 784	(Derbyshire)	5.2m depth
Eagle Tarn	22–664745	org. mud	9 960	300	SUA 323	Macphail 1979	3.9–4.1m
		org. mud	11 400	240	I 7685		4.4–4.6m
		org. mud	6 300	400	ANU 3106	(Green)	2.1–2.2m in core
		org. mud	6 420	380	ANU 3108		2.5–2.6m
		org. mud	7 440	500	ANU 3112		3.3–3.4m
		org. mud	7 460	350	ANU 3113		3.5–3.6m

Lake, Swamp and Peat Deposits

Site Name	GR Ref	Material	^{14}C	S D	Lab No	Reference	Comment
		org. mud	9 650	850	ANU 3114		3.7–3.8m
		org. mud	8.300	490	ANU 3115		3.9–4.0m
		org. mud	6 340	190	ANU 3116		4.1–4.2m
		org. mud	7 460	380	ANU 3117		4.3–4.4m
		org. mud	12 960	950	ANU 3118		4.5–4.6m
Gordon Road	12-510657	wood	33 240	+3370 -2370	Gak 5625	(Colhoun)	base of ice-pushed organic clays. Probably a minimum age.
Hartz Lake	21–805128	peat	2 930	100	SUA 1357	(Colhoun & Macphail)	0.5–0.59m
		lake clay	4 100	200	SUA 1944		0.71–0.9m in lake clay of core
		lake clay	Modern		SUA 1945		1.6–1.89m
Henty Bridge	94–734495	org. clay	23 640	1030	Gak 5597	Colhoun 1979	lake clays and slope deposits on till
		org. clay	25 660	1200	Gak 5596		
		wood	>34 600		Gak 5595		
		wood	>34 190		Gak 6294		
		wood	23 860	890	Gak 5594		
Henty Surface Swamp	04–786537	org. mud	>4 380		Gak 6292	(Colhoun)	1.98–2.0m in core
Hogsback	21–874945	wood	750	60	SUA 2110	(Podger)	*Telopea* rootstock at 0.5m depth in peat
Hogsback Plain	21–863960	charcoal	11 600	100	SUA 2109	(Podger)	base peat at 1.2m
Homestead Swamp Hunter Island	86–094110	peat	4 100	80	ANU 2532	(Hope)	sandsheet stabilised
James Tarn, Mount Field	22–641757	org. mud	8 280	460	Gak 1158	Macphail & Peterson 1975	1.5m in core
Killiecrankie Bay, Flinders Island	48–719900	sandy peat	12 550	390	Gak 8261	(Ladd)	2.45m in core
		peat	>33 890		Gak 8923		3.2m
		peat	29 630	3030	Gak 8922		4.25–4.28m
Killiecrankie Swamp, Flinders Island	48–715898	wood	550	140	Gak 8263	Ladd 1981	2.0m depth
Lagoon of Islands	23–940390	peat	7 430	150	unknown	(Jackson)	base peat
Lake Tiberias	33–300020	peat	9 550	200	Gak 2239	Macphail & Jackson 1978	base of organic deposit ~ 2m depth
Lake Vera	03–078193	org. clay	6 950	175	I 9557	Macphail 1979	2.08–2.13m in core
		org. clay	11 530	240	I 7683		2.7–2.8m
Lake Wurawina, Upper Cirque	12–405900	peat	10 360	170	SUA 1354	(Colhoun & Macphail)	1.65–1.75m in core
Laughing Jack Lagoon	13–415320	wood	810	60	SUA 1957	(Kiernan)	0.45–0.5m
		wood	1 540	60	SUA 1958		~ 1m depth in silt
Lower Mackintosh Valley	04–869822	wood	36 200	+3400 -2400	SUA 1287	(Colhoun & Sansom)	0.9m in section
		charcoal	>31 700		SUA 1288		1.7–1.75m in section
Mickelthwaite Marsh	05–846106	peat	7 030	110	I 11863	(Colhoun & van de Geer)	0.85–0.9m in core
Middle Patriarch Swamp, Flinders Island	58–009719	peat	940	110	Gak 8921	(Ladd)	0.65–0.7m in core

Lake, Swamp and Peat Deposits

Site Name	GR Ref	Material	^{14}C	S D	Lab No	Reference	Comment
		peat	5 920	150	Gak 8920		1.4–1.45m
		peat	10 110	420	Gak 8258		1.7–1.75m
Mount Gould Plateau	14–220512	org. silt	7 920	250	SUA 2080	(Kiernan)	1.6m in core
Mount McCall	03–956100	wood	2 740	60	SUA 2108	(Podger)	*Athrotaxis* wood partly buried
Mount Strzelecki, near summit	57–914496	peat	1 510	130	Gak 8260	(Ladd)	0.84–0.86m on rock
Mowbray Swamp	96–365760	marl	>37760		Y 148/1	Barendsen *et al.* 1957	0.6m depth in swamp
		peat	>37760		Y 148/2		0.6–1.2m
		tree stump	47 500	+2700 -2000	GrN 7481	(van de Geer *et al.*)	1.35m in spring mound
		root stump	36 300	700	GrN 8606		0.85m depth in pit
		humic extract	34 100	700	GrN 8646		of GrN 8606
		peat	46 400	+1300 -1100	GrN 9341		1.075–1.125m
		humic extract	45 200	+2600 -2000	GrN 9765		of GrN 9341
		root stump	>52000		GrN 9342		1.2–1.3m
		root stump	(52 220	350)	GrN 9742		Same sample as GrN 9342
		humic extract	(51 300	+4400) -2800)	GrN 9767		of GrN 9742
Ooze Lake	20–758837	lake clay	5 440	90	SUA 1939	(Colhoun & Macphail)	1.0–1.2m in core
		lake clay	8 870	130	SUA 1940		2.0–2.2m
		lake clay	10 390	160	SUA 1941		3.0–.3.2m
		lake clay	10 670	170	SUA 1942	Macphail & Colhoun 1985	4.0–4.2m
		lake clay	12 100	160	SUA 1356		4.77–5.07m
		lake clay	12 590	230	SUA 1943		5.5–5.7m
		lake clay	17 700	400	SUA 1359		6.4–6.65m
Phillips Creek	45–512058	wood	8 475	85	Beta 1885	Caine 1983	0.8m depth in core 2
		lake clay	9 535	165	Beta 1886		2.25m
		clay with charcoal	6 270	760	ANU 2512	(Noble)	2.27m core 1
Poets Hill Lake, formerly referred to as Inter-moraine Lake	04–807508	org. mud	3 600	180	SUA 1394	Colhoun 1979	0.505–0.54m core 2
		org. mud	10 150	220	SUA 1395		1.82–1.86m core 2
		org. mud	7 410	400	SUA 1396		2.85–2.9m core 2 believed unreliable
		org. mud	11 420	770	Gak 6297		2.9–2.95m core 1
Pulbeena Swamp	96–436724	peat	13 690	550	Y 229/1	Barendsen *et al.* 1957	0.62–0.8m depth in swamp
		shell marl	27 900	2000	Y 229/2		1.70m
		wood	54 200	+11000 -4500	GrN 7322	Banks *et al.* 1976	2.3m in profile of 1975
		humified peat	11 370	70	GrN 7881	Colhoun *et al.* 1982	0.6m depth in section of 1976
		humified peat	14 980	80	GrN 7688		0.75m

Lake, Swamp and Peat Deposits

Site Name	GR Ref	Material	^{14}C	S D	Lab No	Reference	Comment
		humified peat	16 590	110	GrN 7882		0.85m
		humified peat	22 130	180	GrN 7689		1.15m
		charred root stump	44 700	1500	GrN 7690		1.65m
		charred root stump	42 200	800	GrN 9458		1.65m
		root stump	48 400	+1900 -1600	GrN 7691		2.0m
		root stump	53 400	+3700 -2500	GrN 9459		2.0m
		root stump	(42 700	900)	GrN 8589		2.05–2.15m
		humic extract	(41 100	800)	GrN 8636		of GrN 8589
		root stump	41 450	700	GrN 9438		
			(42 620	200)	GrN 9483		same sample as GrN 9438
		root stump	(48 200	250)	GrN 8526		2.55–2.65m
		humic extract	(47 500	800)	GrN 8626		of GrN 8526
		root stump	(49 250	300)	GrN 8754		3.2–3.3m
		humic extract	(47 600	+1900) (-1500)	GrN 8627		of GrN 8754
		peat in shell-marl	>55000		GrN 9798		4.2–4.25m
		peat in shell-marl	(55 200	500)	GrN 9905		same sample as GrN 9798
		shell-marl	42 500	1100	GrN 9844		same horizon as GrN 9789
Sundown Point	85–044445	peat	420	60	ANU 2531	(Hope & Ranson)	0.21–0.27m
		peat & org. mud	3 300	80	ANU 2530		0.8–0.9m, stabilisation coastal dune
Scotts Peak Dam	11–445235	carb. wood	>33600		Gak 5624	(Colhoun)	wood in ice-pushed? lake clays
Tarraleah	13–557162	peat	7 000	160	ANU 2496	Macphail 1984	0.4–0.5m depth in core
		peat	7 970	180	ANU 2745		1.1–1.2m
		org. clay	9 080	195	I 9559		2.5–2.54m
Tullabardine Creek	96–879843	peat	8 030	110	SUA 2185	(Colhoun & van de Geer)	1.2m depth in monolith
		peat	11 060	210	SUA 2186		1.35m
		wood	11 660	150	SUA 1044		1.6m in section
		org. soil	21 250	270	SUA 1045		1.9–2.1m
		wood	31 500	900	SUA 1046		3.05–3.1m in monolith
		wood	>43800		SUA 1047		3.8m
Tyndall Plateau	96–824545	org. clay	9 050	120	SUA 1358	(Colhoun & Macphail)	0.82–0.94m in core

Lake, Swamp and Peat Deposits

Site Name	GR Ref	Material	^{14}C	S D	Lab No	Reference	Comment
Unnamed Tarn, Mount Field	22–640758	org. mud	3 570	115	I 750	(Peterson)	0.35–0.4m
		org. mud	9 590	240	I 8007	Macphail & Peterson 1975	1.5m in core
		org. mud	9 725	180	I 8008		3.0m

Slope Deposits

Site Name	GR Ref	Material	^{14}C	S D	Lab No	Reference	Comment
Barilla Hills	32–343564	charcoal	6 490	100	UB 919	(Stephens)	silt with charcoal below mudstone slope deposits
Ben Lomond, Pig Run Creek	44–500037	charcoal	3 940	110	Beat 2109	Caine 1983	
Chester Rivulet	04–784795	charcoal	18 190	340	SUA 1042	(Colhoun)	in soil at 5.7m depth in scree
Gellibrand Point	32–332428	carb. wood	>37000		SUA 309	Colhoun 1975	strongly weathered chemically
Hardstaff Creek	15–195367	charcoal	13 870	820	Gak 5968	(Colhoun)	1.9m depth in scree
Mathinna Plains	45–712145	charcoal	2 340	90	Gak 669	Caine 1978	at 2m depth in scree
Remarkable Cave	41–686178	wood	40 000		SUA 347	Colhoun 1977c	in 17m of slope deposits
		wood & plant detritus	>40000		SUA 348		
		wood	>40000		SUA 349		
		peaty clay	>37000		SUA 389		
		charcoal & wood	>37000		SUA 391		
		charcoal	29 050	830	SUA 154		contaminated by humic acid
Rokeby	32–389493	wood	470	90	Gak ?	(Stephens & van de Geer)	slope deposits on cliff
Sayers Hill	15–365378	charcoal	>30600		Gak 5590	Colhoun 1976	at 5m depth in slope deposit

Soils and Palaeosols

Site Name	GR Ref	Material	^{14}C	S D	Lab No	Reference	Comment
Badger Beach	25–694471	org. clay	15 900	510	Gak 5619	(Chick)	Podzol below dune and on beach sands
Ben Lomond, Land of Little Sticks	44–537029	peaty soil with charcoal	4 940	90	ANU 2513	Caine 1983	0.76–0.77m depth
Ossians Throne	44–580992	org. soil	1 250	70	Beta 2110	Caine 1983	buried A horizon
Ben Lomond, Road	44–518050	org. soil	19 410	330	Beta 1887	Caine 1983	covered by blocky mantle
Fern Tree	32–204471	charcoal	>40000		I 8155	Colhoun 1975	buried Bt horizon
Florentine Valley	12–553815	charcoal	14 200	700	Gak 486	Davies 1974	Podzol A horizon below solifluction
Linda Creek	03–835422	wood	>40000		R 488	(Banks)	*Phyllocladus* stump below glacial sands
		wood	>48500		ANU 3413	(Colhoun & Kiernan)	*Phyllocladus* stump below glacial sands

Soils and Palaeosols

Site Name	GR Ref	Material	^{14}C	S D	Lab No	Reference	Comment
Monpeelyata Canal	23–730385	plant detritus	2 900	80	Gak 1020	(Derbyshire)	*Astelia alpina* below solfluction but on same level as Gak 1163, date suspect
		charcoal	30 400	2300	Gak 1163	Derbyshire 1968	soil below solifluction deposit
Mount Albert	45–742200	wood & charcoal	3 520	100	Gak 668	Caine 1978	buried Podzolic A horizon
Mount Arrowsmith	13–255261	charcoal	13 000	640	SUA 1959	(Kiernan)	palaeosol below 1m scree
Scotts Peak Dam	11–421351	wood	>33000		Gak 5623	Colhoun 1975	organic soil within scree
Welcome River	86–111863	charcoal	30 860	+4100 -2770	Gak 5970	Colhoun 1983b	palaeosol below Holocene beach & dune

MACQUARIE ISLAND

Site Name	Lat	Long	Material	^{14}C	S D	Lab No	Reference	Comment
Bauer Bay	50 30	158 53	peat	2 165	80	SUA 179	Colhoun & Goede 1973	min. age 9m beach
			king penguin bones	3 980	140	Gak 644	McEvey & Vestjens 1974	7m depth
Finch Creek	54 35	158 55	royal penguin bones	6 100	120	Gak 643	McEvey & Vestjens 1974	in 6m terrace near river mouth
Finch Creek, Ridge	54 34	158 55	peat	3 780	140	SUA 1460	Selkirk & Selkirk 1983	1.27m depth
			sandy peat	10 275	230	Beta 1386		1.82m
			sandy peat	5 930	240	SUA 1845X	Selkirk *et al.* 1984	1.9m
			sandy peat	5 260	85	Beta 7027	(Selkirk & Selkirk)	1.9–2.0m
			humic acid	5 430	80	Beta 7027B		of Beta 7027
			sandy peat	5 630	80	SUA 2126		1.9–2.0m
Gentoo Flat	54 32	158 53	peat	modern		Beta 6735	(Dodson)	0.05m
			peat	modern		Beta 6736		0.05–0.10m
			peat	modern		Beta 6737		0.25–0.28m
Green Gorge	54 38	158 54	peat	2 074	80	SUA 178	Colhoun & Goede 1973	min. age 9m beach
Green Gorge Lake	54 38	158 54	peat	1 570	140	SUA 1463	Selkirk & Selkirk 1983	1.2–1.4m depth
			peat	7 630	280	SUA 1465		2.2–2.3m
Green Gorge Ridge	54 38	158 54	peat	5 140	140	SUA 1462	Selkirk *et al.* 1984	0.88m depth
			peat	6 900	+900 -800	SUA 1461	Selkirk & Selkirk 1983	1.38m
			peat	7 200	130	SUA 2164	Selkirk *et al.* 1984	repeat SUA 1461 from adjacent profile
Perseverance Bluff	54 30	158 56	peat	220	55	Beta 8080	(Dodson)	0.15–0.2m
			peat	<75		Beta 8081		0.2–0.25m
			peat	300	55	Beta 8082		0.25–0.3m
			peat	385	60	Beta 8083		0.3–0.35m
			peat	625	60	Beta 8084		0.35–0.4m
			peat	1 245	80	Beta 8085		0.4–0.45m
			peat	1 685	70	Beta 8086		0.5–0.58m

MACQUARIE ISLAND

Site Name	Lat Long	Material	^{14}C	S D	Lab No	Reference	Comment
Scoble Lake	54 31 158 56	org. mud	3 140	100	Wk 407	Salas 1983	0.78m depth at core base near eastern edge of lake
		org. mud	7 160	260	Wk 405		top of core from centre of lake
		org. mud	8 700	220	Wk 349		base core at 2m depth
The Nuggets	54 32 158 57	peat	1 700	110	SUA 1468	Selkirk & Selkirk 1982	0.47–0.5m in cliff section
		org. clay	8 560	200	SUA 1467		1.47–1.5m
		diatomite	8 230	240	SUA 1466		3.39–3.41m
		lake clay	9 400	220	SUA 1894	Selkirk *et al.* 1984	4.4m
Wireless Hill	54 30 158 57	sandy peat	760	100	SUA 1681	Selkirk *et al.* 1983	1.0–1.05m depth
		peat	1 515	75	SUA 1238	Selkirk & Selkirk 1983	1.25–1.35m
		sandy peat	1 600	130	SUA 1459	Selkirk *et al.* 1983	2.06–2.1m
		humic acid	1 300	90	SUA 1459HA		of SUA 1459
		sandy peat	3 490	210	SUA 1682		3.13–3.15m
		sandy peat	5 140	140	Beta 1387		3.58–3.60m
		sandy peat	4 880	90	SUA 1527		3.84–3.94m
		humic acid	4 610	100	SUA 1527HA		of SUA 1527

PERSONS WHO HAVE CONTRIBUTED UNPUBLISHED DATES

Banks, M.R. Department of Geology, University of Tasmania

Chick, N.K. Department of Geography, University of Tasmania

Colhoun, E.A. Department of Geography, University of Tasmania

Derbyshire, E. Department of Geography, University of Leicester, England

Dodson, J. Department of Geography, University of New South Wales

Gill, E.D. 1/47 Wattle Valley Road, Canterbury, Victoria

Goede, A. Department of Geography, University of Tasmania

Green, D. Department of Biogeography and Geomorphology, Research School of Pacific Studies, Australian National University, Canberra

Hannan, D. Division of Teacher Education, Tasmanian College of Advanced Education, Newnham

Hope, G.S. Department of Geography, School of General Studies, Australian National University, Canberra

Jackson, W.D. Department of Botany, University of Tasmania

Jones, R. Department of Prehistory, Research School of Pacific Studies, Australian National University, Canberra

Kiernan, K.W. Department of Geography, University of Tasmania

Ladd, P.G. Department of Botany, School of General Studies, Australian National University, Canberra

Macphail, M.K. Noble, M. Esso House, 127 Kent Street, Sydney Institute of Arctic and Alpine Studies, Boulder, Colorado, U.S.A.

Peterson, J.A. Department of Geography, Monash University

Podger, F. CSIRO, Stowell Avenue, Hobart

Ranson, D. Tasmanian National Parks and Wildlife Service, Sandy Bay

Sansom, P.W. Petrecon Pty. Ltd., Hobart

Selkirk, D.R. School of Biological Sciences, Sydney University

Selkirk, P.M. School of Biological Sciences, Macquarie University

Stephens, N. Department of Geography, University College of Wales, Swansea

Thomas, I. Department of Geography, University of Tasmania

van de Geer, G. Department of Geography, University of Tasmania

REFERENCES

BANKS, M.R., COLHOUN, E.A. & VAN DE GEER, G., 1976: Late Quaternary *Palorchestes azael* (Mammalia, Diprotodontidae) from northwestern Tasmania. *Alcheringa* 1: 159–166.

BARENDSEN, G.W., DEEVEY, E.S. & GRALENSKI, L.J., 1957: Yale Natural Radiocarbon Measurements III. *Science* 126: 908–919.

CAINE, N. 1968: Carbon-14 dates from the Broad River Valley, Mt. Field National Park, Tasmania. *Aust. J. Sci.* 31 (3): 119.

CAINE, N., 1978: Late Holocene instability on hillslopes in northeastern Tasmania. *Search* 9: 298.

CAINE, N., 1983: *THE MOUNTAINS OF NORTHEASTERN TASMANIA*. Balkema, Rotterdam.

COLHOUN, E.A., 1975: A Quaternary climatic curve for Tasmania. Conference paper at *R. Met. Soc. Austr.* Branch Conference on Climate and Climatic Change, Monash University, Dec., 1975, 40 pp.

COLHOUN, E.A., 1976: The glaciation of the lower Forth Valley, northwestern Tasmania, *Aust. Geogr. Studies*, 14(2): 83–102.

COLHOUN, E.A., 1977a: A sequence of Late Quaternary deposits at Pipe Clay Lagoon, southeastern Tasmania. *Pap. Proc. R. Soc. Tasm.* 111: 29–39.

COLHOUN, E.A., 1977b. Late Quaternary fan gravels and slope deposits at Rocky Cape, northwestern Tasmania: their palaeoenvironmental significance, *Pap. Proc. R. Soc. Tasm.* 111: 13–28.

COLHOUN, E.A., 1977c: The Remarkable Cave, southeastern Tasmania: its geomorphological development and environmental history. *Pap. Proc. R. Soc. Tasm.* 111: 29–39.

COLHOUN, E.A., 1979: *QUATERNARY EXCURSION TO NORTHWEST AND WEST TASMANIA. FIELD GUIDE.* 50 pp. Department of Geography, University of Tasmania.

COLHOUN, E.A., 1980: Quaternary fluviatile deposits from the Pieman Damsite, Western Tasmania. *Proc. R. Soc. Lond.* B207: 355–384.

COLHOUN, E.A., 1983a: Tasmanian sea levels in the last 15,000 years. In Hopley, D. (Ed.): *AUSTRALIAN SEA LEVELS IN THE LAST 15,000 YEARS: A REVIEW.* Monograph Series, Occasional Paper 3, Department of Geography, James Cook University: 54–58.

COLHOUN, E.A., 1983b: The Climate of Tasmania 32± 5 KA. In *PROCEEDINGS OF THE FIRST CLIMANZ CONFERENCE.* Department of Biogeography and Geomorphology, Research School of Pacific Studies, Australian National University: 10–11.

COLHOUN, E.A., 1985: Glaciation of the West Coast Range, Tasmania. *Quaternary Research* 23(3) (in press).

COLHOUN, E.A. & GOEDE, A., 1973: Fossil penguin bones, ^{14}C dates and the raised marine terrace of Macquarie Island: some comments. *Search* 4 (11–12): 499–501.

COLHOUN, E.A. and GOEDE, A., 1979: The Late Quaternary deposits of Blakes Opening and the Middle Huon Valley, Tasmania. *Phil. Trans. R.Soc.Lond.* 286B: 371–395.

COLHOUN, E.A. & MOON, A., 1984: Estuarine sediments at the Bowen Bridge on the Derwent River, southeastern Tasmania, *Search* 15 (7–8): 224–226.

COLHOUN, E.A., VAN DE GEER, G. & MOOK, W.G., 1982: Stratigraphy, pollen analysis and palaeoclimatic interpretation of Pulbeena Swamp, northwestern Tasmania. *Quaternary Research* 18(1): 108–126.

COSGROVE, R.F., 1985: Early Holocene aboriginal occupation in northeastern Tasmania. *Aust. Archaeology* (in press).

DAVIES, J.L., 1974: Geomorphology and Quaternary environments. In Williams, W.D. (Ed.): *BIOGEOGRAPHY AND ECOLOGY IN TASMANIA*. Junk, The Hague: 17–27.

DERBYSHIRE, E., 1968: Two gelifluctates near Great Lake, central Tasmania. *Aust. J. Sci.* 31(4): 154–156.

FISH, G.J. & YAXLEY, M.L., 1966: *BEHIND THE SCENERY*. Education Department, Tasmania.

FRANCEY, R.J., BARBETTI, M., BIRD, T., BEARDSMORE, D., COUPLAND, W., DOLEZAL, J.E., FARQUHAR, G.D., FLYNN, R.G., FRASER, P.J., GIFFORD, R.M., GOODMAN, H.S., KUNDA, B., McPHAIL, S., NANSON, G., PEARMAN, G.I. RICHARDS, N.G., SHARKEY, T.D., TEMPLE, R.B. & WEIR, B., 1984: Isotopes in tree rings. *Division of Atmospheric Research Technical Paper* No. 4, CSIRO, Australia.

GILL, E.D., 1956: Radiocarbon dating for glacial varves in Tasmania *Aust. J. Sci.* 19: 80.

GILL, E.D., 1968: Aboriginal bone implement from fossil bone bed, Tasmania. *Rec. Q. Vict. Mus, Launceston* 31: 1–4.

GILLESPIE, R., 1977: Sydney University Natural Radiocarbon Measurements IV *Radiocarbon*, 19: 101–110.

GOEDE, A., 1965: Geomorphology of the Buckland Basin. *Pap. Proc. R. Soc. Tasm.* 99: 133–154

GOEDE, A., 1973: Floodplain stratigraphy of the Tea Tree Rivulet, Buckland, eastern Tasmania. *Austr. Geogr. Studies* 11: 28–39.

GOEDE, A. & HARMON, R.S., 1983: Radiometric dating of Tasmanian speleothems — evidence of cave evolution and climatic change. *J.Geol. Soc. Aust.* 30: 89–100.

GOEDE, A. & HITCHMAN, M.A., 1984: Late Quaternary climatic change — Evidence from a Tasmanian speleothem. In Vogel, J.C. (Ed.); *LATE CAINOZOIC PALAEOCLIMATES OF THE SOUTHERN HEMISPHERE.* Balkema, Rotterdam, 221–232.

GOEDE, A. & MURRAY, P., 1979: Late Pleistocene bone deposits from a cave in the Florentine Valley, Tasmania. *Pap. Proc. R. Soc. Tasm.* 113: 39–52.

GRANT-TAYLOR, T.L. & RAFTER, T.A., 1962: New Zealand radiocarbon age measurements: 5. *N.Z. J. Geol. Geophys.* 5(2): 331–359.

GRANT-TAYLOR, T.L. & RAFTER, T.A., 1963: New Zealand natural radiocarbon measurements IV. *Radiocarbon* 5: 118–162.

GROOTES, P.M., 1978: Carbon-14 time scale extended: comparison of chronologies. *Science* 200: 11–15.

KIGOSHI, K. & KOBAYASHI, H., 1966: Gakushuin natural radiocarbon measurements V. *Radiocarbon* 8: 54–73.

KIGOSHI, K., AIZAWA, H. & SUZUKI, N., 1969: Gakushuin natural radiocarbon measurements VII. *Radiocarbon* 11 (2): 295–326.

LADD, P.G., 1981: The relevance of palynology to archaeology. *The Artefact* 6: 17–34.

MACPHAIL, M.K., 1979: Vegetation and climates in southern Tasmania since the Last Glaciation. *Quaternary Research* 11: 306–341.

MACPHAIL, M.K., 1984: Small-scale dynamics in an Early Holocene wet sclerophyll forest in Tasmania. *New Phytol.* 96: 131–147.

MACPHAIL, M.K. & COLHOUN, E.A., 1985: Late Last Glacial vegetation, climates and fire activity in southwest Tasmania. *Search* 16 (2): 43–45.

MACPHAIL, M.K. & HOPE, G.S., 1985: Late Holocene mire development in montane southeastern Australia: a sensitive climatic indicator. *Search* 15 (11–12): 344–349.

MACPHAIL, M.K. & JACKSON, W.D., 1978: The Late Pleistocene and Holocene history of the Midlands of Tasmania. *Proc. R. Soc. Vict.* 90 (2): 287–300.

MACPHAIL, M.K. & PETERSON, J.A., 1975: New deglaciation dates from Tasmania. *Search* 6: 127–130.

McEVEY, A.R. & VESTJENS, W.J.M., 1974: Fossil penguin bones from Macquarie Island, Southern Ocean. *Proc. R. Soc. Vict.*, 86 (2): 151–174.

McPHAIL, S., BARBETTI, M., FRANCEY, R., BIRD, T. & DOLEZAL, J., 1983: ^{14}C variations from Tasmanian trees — preliminary results. *Radiocarbon* 25 (3): 797–802.

MURRAY, P. & GOEDE, A., 1977: Pleistocene vertebrate remains from a cave near Montagu, N.W. Tasmania *Rec. Q. Vict. Mus. Launceston*, 60.

PETERSON, J.A., 1968: Cirque morphology and Pleistocene ice formation conditions in southeastern Australia. *Austr. Geogr. Studies* 6: 67–83.

SALAS, M.R., 1983: Long-distance pollen transport over the southern Tasman Sea: evidence from Macquarie Island. *N.Z.J. Bot.* 21: 285–292.

SELKIRK, D.R. & SELKIRK, P.M. 1983: Preliminary report on some peats from Macquarie Island 7 +/- 2KA. *PROCEEDING OF THE FIRST CLIMANZ CONFERENCE.* Department of Biogeography and Geomorphology. Research School of Pacific Studies, Australian National University: 115–117.

SELKIRK, D.R., SELKIRK, P.M., & GRIFFIN, K., 1983: Palynological evidence for Holocene environmental change and uplift on Wireless Hill, Macquarie Island. *Proc. Linn. Soc., N.S.W.* 107: 1–17.

SELKIRK, P.M. & SELKIRK, D.R., 1982: Late Quaternary mosses from Macquarie Island. *J. HATTON BOTANICAL LABORATORY* 52: 167–169.

SELKIRK, P.M. SELKIRK, D.R. & BERGSTROM, D.M., 1984: Holocene vegetation history of Macquarie Island. *The Tasmanian Naturalist* 21–22.

SIGLEO, W.R. & COLHOUN, E.A., 1982: Terrestrial dunes, Man and the Late Quaternary environment in southern Tasmania. *Palaeogeography, Palaeoclimatology, Palaeoecology.* 39: 87–121.

STOCKTON, J., 1981: Radiocarbon dates for archaeological sites in Tasmania. *Aust. Archaeology* 12: 97–101.

THOM, B.G., BOWMAN, G.M., GILLESPIE, R., TEMPLE, R. & BARBETTI, M., 1981: *RADIOCARBON DATING OF HOLOCENE BEACH-RIDGE SEQUENCES IN SOUTH-EAST AUSTRALIA. Monograph 11, Department of Geography, University of N.S.W. Royal Military College, Duntroon.*

WASSON, R.J., 1977: Catchment processes and the evolution of alluvial fans in the lower Derwent Valley, Tasmania. *Zeitschrift fur Geomorphologie* NF 21(2): 147–168.

(accepted march 1, 1985)