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1987/62. Density and susceptibility of some rock samples from the Cape Sorell and Rocky Cape areas.

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Abstract

Measurements made on a number of samples showed that the Precambrian rocks were of lower density than the other rock types measured.

SUMMARY

Samples collected from the Rocky Cape area by R. S. Bottrill, and from the Cape Sorell area by R. H. Findlay and M. P. McClenaghan, mainly for petrological examination, were measured for density and susceptibility.

Susceptibility measurements were made using an ABEM kappameter KT3 without correction for sample irregularities, whilst wet densities were determined after samples had been immersed in water for at least 24 hours.

Table 1 summarises the results.

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Table 1. DENSITIES AND SUSCEPTIBILITIES

Sample	East (m)	North (m)	Density t/m ³	Susceptibility x10 ⁻³ S.I.	Comments
RC1	362200	476300	2.66	0.4	Precambrian Cowrie Siltstone - white siltstone
RC2	362200	476300	2.44	0.28	Precambrian Cowrie Siltstone - grey siltstone
RC3	374300	475300	2.63	0.0	Precambrian Detention Quartzite - white quartzite
RC4	417500	450500	2.63	0.08	Precambrian micaceous quartzite
RC5	417500	450500	2.54	0.14	Precambrian black shale
RHF1	357300	312700	2.53	0.0	Precambrian
F4/87	360600	314600	2.61	0.08	Precambrian
F6/87	360600	314800	2.58	0.12	Precambrian
F7/87	360600	314800	2.44	0.10	Precambrian
MH82	366900	308100	2.82	0.6	Gabbro
MH85	362500	311500	3.04	28.5	Cambrian basalt
MH201	368300	298900	2.68	0.36	Cambrian Noddy Creek Volcanics - andesite
MH472	359400	310400	2.51	0.50	Cambrian sandstone/siltstone
MH483	364900	298000	2.74	0.16	Ordovician carbonate
MH399	358500	299900	3.97	20.0	Hematite

Table 1. (continued)

Sample	East (m)	North (m)	Density t/m ³	Susceptibility x10 ⁻³ S.I.	Comments
MH80	367300	307700	2.45	0.10	Precambrian
MH81	367300	307800	2.61	0.00	Precambrian
MH83	366500	308300	2.55	0.00	Precambrian
R1106	366200	308700	2.51	0.06	Precambrian
MH281	367200	304200	2.81	3.0 }	Cambrian/Ordovician fault slice
R1105	367100	306800	2.83	1.5 }	
MH74	367400	307400	2.65	0.4 }	
MH444	363100	311300	2.48	0.06	Cambrian sediments
MH448	365700	309400	2.84	0.30	Cambrian sediments
MH450	365700	309400	2.67	0.08	Cambrian sediments
MH453	365100	309700	2.42	0.00	Cambrian sediments
MH8	369700	307300	2.73	0.6 }	Cambrian sediments within ultramafic belt
MH9	369400	307500	2.25	0.2 }	
MH283	368400	303700	2.73	0.5 }	
MH15	366900	302800	2.71	18.0	Ultramafic/gabbro
MH207	367800	300900	2.90	0.7	Ultramafic/gabbro
MH208	367800	300900	2.72	80.0	Ultramafic/gabbro
MH214	367800	301200	2.82	0.5	Ultramafic/gabbro
MH218	367600	300700	2.61	8.0	Ultramafic/gabbro
MH203	368300	299200	2.82	0.6 }	Cambrian Noddy Creek intermediate/acid volcanics
MH210	369200	302200	2.50	0.6 }	
MH212	369300	303600	2.59	0.1 }	
R1132	369000	300000	2.87	0.6 }	
R1133	369700	299800	2.72	0.52 }	
MH556	372300	304200	2.59	0.16	Cambrian sediments
MH558	372400	302600	2.53	0.22	Cambrian sediments
MH53	372900	297400	2.72	0.2	Cambrian sediments
MH68	371500	303800	2.65	0.3	Cambrian sediments