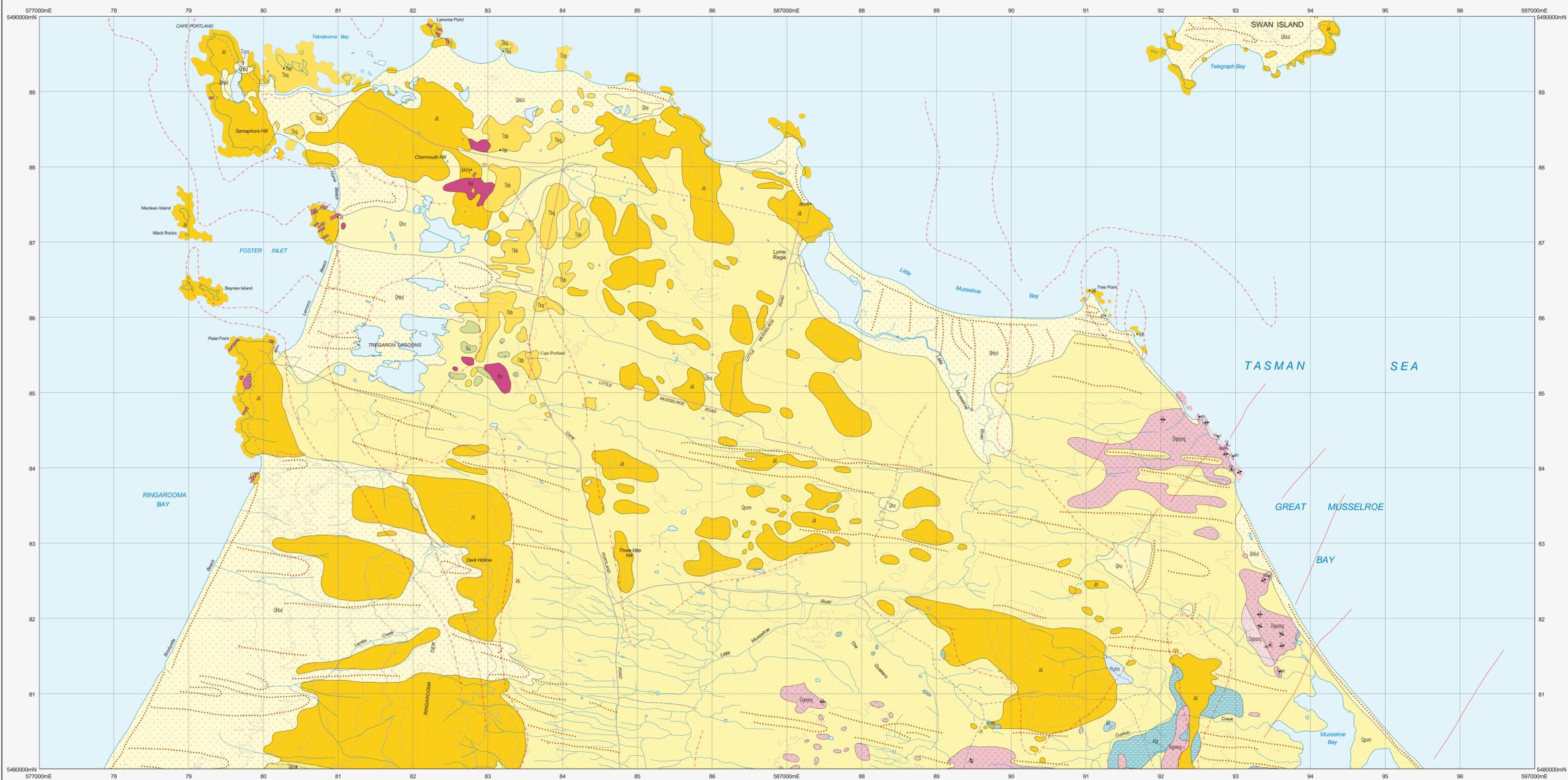


LYME REGIS SOUTH

Scale: 1:25 000



COMPOSITE LEGEND FOR LYME REGIS NORTH AND LYME REGIS SOUTH

CENOZOIC	QUATERNARY			
	HOLOCENE	PLEISTOCENE		
	Qha	Stream alluvium, swamp and marsh deposits (Qha).		
	Qba	Younger aeolian dune sand, beach sand and gravel (Qba).		
	Qbta	Dolerite tuffs (Qbta).		
	Qpam	Marine terrace deposits of gravel, sand, clay, shells and organic material (Qpam), clay, sand, minor peat and gravel (Qpac).		
	Qpsw	Older aeolian dune sand (Qpsw).		
	Tss	Lag and outcrop of silicified quartz sandstone and conglomerate (Tss).		
	Tm	Marine limestone (Tm).		
	Tb	Basalt (Tb).		
		Unconformity		
PALEOZOIC	PERMIAN	TRIASSIC	Ru	Fresh-water, cross-bedded quartz sandstone (Ru) (Upper Permian Group).
			PuM	Fossiliferous marine sandstone (PuM) (Upper glacio-marine sequence).
			Pfp	Cross-bedded quartz sandstone and carbonaceous mudstone (Pfp) (freshwater sequence).
			Pfd	Rocky to sandy fossiliferous (crinoid) siltstone with shales and poorly sorted pebbly sandstone (Pfd) (Lower glacio-marine sequence).

CENOZOIC	NEOGENE		
	OLIGOCENE	MIOCENE	
	Tb	Basalt (Tb), basaltic (Tba) and quartz tholeiite (Tbt) indicated. The latter at ~70Ma (K/Ar) (F.L. Sutherland & H. Zenggen, unpublished).	
	Mg	Shoshonitic to biotite porphyritic intrusives, with phenocrysts of hornblende +/- plagioclase +/- quartz +/- biotite +/- titanite in a quartz-feldspathic groundmass dated at 32.1+/-2.0Ma (K/Ar) at 55300m, 549100mN (McDougall & Green 1982) (Ks).	
	Md	Coarse shoshonitic to biotite dykes dated at 31.3+/-2.6 Ma at 587700mE, 547400mN (McDougall & Green 1982) (Ks).	
	Md	Coarse, vesicular to amygdaloidal shoshonitic lava with phenocrysts of augite and hornblende in a quartz-feldspathic groundmass (Ks).	
	Jd	Dolerite (Jd) very-fine-grained (0.2 - 0.7mm) with interstitial black glass (Jdvg); fine-grained (0.7 - 1.5mm) (Jdf); medium-to coarse-grained (1.5 - 3mm) with abundant interstitial mesostasis (Jdm).	
PALEOZOIC	DEVONIAN		EDDYSTONE BATHOLITH
		Dgasa	Fine-grained porphyritic biotite-muscovite granite, with phenocrysts of quartz and feldspar (Dgasa).
		Dgasa	Coarse- to very coarse-grained variably porphyritic biotite-garnet-minor muscovite alkali feldspar granite/syenogranite/monzogranite (Dgasa) (Dgasa, Dgasa, Musgrave Granite, S-type).

—	Geological boundary - position approximate.
—	Lineament visible in airborne magnetic data.
—	Magnetic gradient or lineament (direction towards lower values indicated).
—	Dune Crests.
—	Limit of mapping.

—	Strike and dip of bedding, facing known.
—	Strike and dip of foliation due to alignment of K-feldspar phenocrysts in granite rock, vertical.
—	Notable small float or log occurrence, with rock type indicated.
—	Notable small outcrop with rock unit indicated.

Compiled by M.P. McLennaghan, B.Sc. (Hons), Ph.D. 2005 from the following sources (see responsibility diagram):

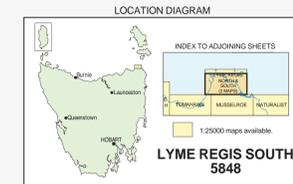
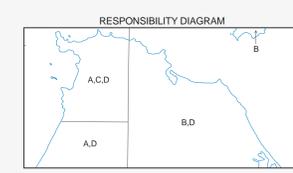
A. BAILLIE, P.W., TURNER, N.J., COX, S.F., JENNINGS, D.J. and SUTHERLAND, F.L. 1976. Geological Atlas 1:50,000 Series, Sheet 24 (84168) Bookvalla, Department of Mines, Tasmania.

B. BAILLIE, P.W., JENNINGS, D.J., MCGHARRE, R.F., WILLIAMS, P.R. 1984. Geological Atlas 1:50,000 Series, Sheet 25 (85165) Eddystone, Department of Mines, Tasmania.

C. JENNINGS, D.J. & SUTHERLAND, F.L. 1969. Geology of the Cape Portland area. Technical Report Department of Mines Tasmania 13, 46-52.

Updated by:

D. Geophysical treatments derived from 2008 Mineral Resources Tasmania "Test-Explore" survey, basalt geochemistry and dolerite grain-size information added by J.L. Ewart, 2010.



REFERENCE THIS MAP AS:
MCLLENNAGHAN, M.P. (compiler) 2005. Digital Geological Atlas 1:25 000 Scale Series, Sheet 5848 Lyme Regis, Mineral Resources Tasmania.

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GDAS4 - MGA Zone 55. Contour Interval: 20 metres.

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