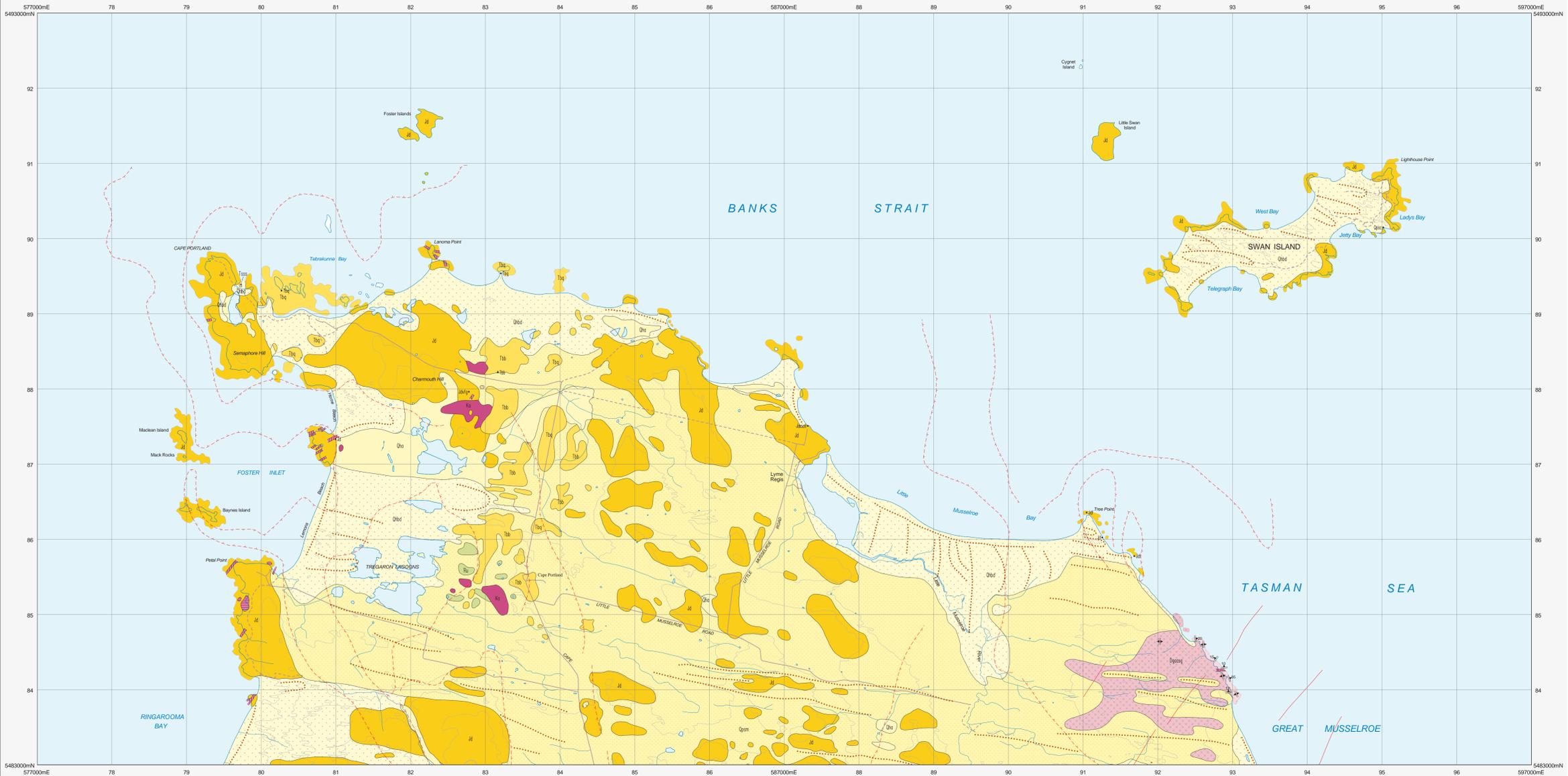


LYME REGIS NORTH

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).	
	Qtd	Dolerite talus (Qtd).	
	Qpm	Marine terrace deposits of gravel, sand, clay, shells and organic material (Qpm); clay, sand, minor peat and gravel (Qps).	
	Qps	Older aeolian dune sand (Qps).	
	Tss	Lag and outcrop of silicified quartz sandstone and conglomerate (Tss).	
	Tm	Marine limestone (Tm).	
	Tb	Basalt (Tb).	
		Unconformity	
PALEOZOIC	PERMIAN	Tu	Fresh-water, cross-bedded quartz sandstone (Tu) (Upper Parmerer 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	MESOZOIC		
	CRETACEOUS (PORTLANDIAN)	JURASSIC	
	Tb	Basalt (Tb), basaltic (Tba) and quartz tholeiite (Tbt) indicated. The latter at ~20Ma (K/Ar) (F.L. Sutherland & H. Zenggen, unpublished).	
	Md	Shadolitic to bititic porphyry intrusives, with phenocrysts of hornblende +/- plagioclase +/- quartz +/- biotite +/- titanite in a quartz-feldspathic groundmass dated at 82.1 +/- 2.0Ma (K/Ar) at 58300mE, 5487600mN (McDougal & Green 1982) (Ks).	
	Mv	Coarse, vesicular to bititic dykes dated at 81.3 +/- 2.6 Ma at 58700mE, 5487400mN (McDougal & Green 1982) (Ks).	
	Mca	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 (Jdv); fine-grained (0.7 - 1.0mm) (Jdf); medium-to coarse-grained (1.0 - 3mm) with abundant interstitial mesostasis (Jdm).	
PALEOZOIC	DEVONIAN	Eg	EDDYSTONE BATHOLITH
		Eg	Fine-grained porphyritic biotite-muscovite granite, with phenocrysts of quartz and feldspar (Eg). Coarse- to very coarse-grained variably porphyritic biotite-garnet-minor muscovite alkali feldspar granite/syenogranite/monzogranite (Egss) (Egssss, Egssss, Muscovite 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.

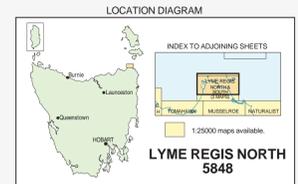
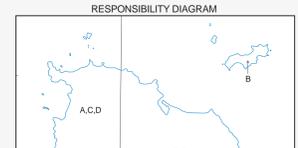
—	Strike and dip of bedding, facing known.
—	Strike and dip of foliation due to alignment of K-feldspar phenocrysts in granite rock, vertical.
—	Notable small float or lag occurrence, with rock type indicated.
—	Notable small outcrop with rock unit indicated.

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 (8416) Boobyula, Department of Mines, Tasmania.
- B. BAILLIE, P.W., JENNINGS, D.J., MCPHARNE, R.F., WILLIAMS, P.R. 1984. Geological Atlas 1:50,000 Series, Sheet 25 (8516) 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, 40-52.
- D. Geophysical treatments derived from 2008 Mineral Resources Tasmania "Test-Explore" survey, basal geochemistry and dolerite geo-chemical information coded by J.L. Everett, 2010.

Updated by:

- D. Geophysical treatments derived from 2008 Mineral Resources Tasmania "Test-Explore" survey, basal geochemistry and dolerite geo-chemical information coded by J.L. Everett, 2010.



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



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