

CBP Coffin Bay Peninsula Land System

Area: 217.4 km²

Landscape: Undulating coastal land formed on Bridgewater Formation Calcarenites, almost completely covered by dunes and spreads of calcareous and siliceous Semaphore Sand. There are minor back swamps and mangrove flats.

Annual rainfall: 480 – 555 mm average

Main soils: Semaphore - H1 (Shelly Rudosol)
Very thick sand comprising mixed shell and quartz grains.

Minor soils: Russell - B1 (Supravescent, Petrocalcic, Lithocalcic Calcarosol)
Medium thickness highly calcareous loamy sand to sandy loam containing increasing amounts of rubble with depth, over sheet calcrete at less than 50 cm.
Yamba - N2a (Hypersalic Hydrosol)
Variable highly saline sand and clay of coastal flats and swamps.
Saline soil - N2b (Salic / Hypersalic Hydrosol)
Miscellaneous wet saline soil influenced by rising saline groundwater tables.

Summary: Undulating land dominated by coastal sandhills. Between the sandhills are limited stony rises formed on calcarenites, and saline swamps. None of this land has any agricultural potential. Conservation value is high.

Soil Landscape Unit summary: 11 Soil Landscape Units (SLUs) mapped in Coffin Bay Peninsula Land System:

SLU	% of area	Component	Main soils	Prop#	Notes
MdB	5.5	Very stony rises	Russell	D	Stony rises on Bridgewater Formation with shallow stony soils, with limited sand spreads and salt flats. These landscapes have no agricultural value.
Mdt	0.4	Very stony rises with sand spreads	Russell / Semaphore	V	
		Salt flats	Saline soil	L	
MzC	1.1	Very stony slopes	Russell	D	Landscapes dominated by Semaphore sand dunes. These are fragile areas with extreme wind erosion potential and high conservation value. They have no agricultural potential.
WFC	9.7	High coastal sandhills	Semaphore	D	
WFE	0.6	Moderate to low coastal sandhills	Semaphore	D	
WFH	1.7	Low coastal sandhills	Semaphore	E	
		Back swamps	Yamba	E	
WFI	45.2	High coastal sandhills with sand flats	Semaphore	D	
WFc	35.2	High bare coastal sandhills	Semaphore	D	
WM-	0.1	Mangrove swamps	Yamba	D	Wet / saline land of high conservation value.
WP-	0.4	Bare saline swamps	Saline soil	D	
WY-	0.1	Sandy / stony frontal slopes	Semaphore / Russell	D	West facing coastal slopes and low cliffs. Exposed, stony and sandy soils with high conservation value.

PROPORTION codes assigned to Soil Landscape Unit (SLU) components:

D Dominant in extent (>90% of SLU)

V Very extensive in extent (60–90% of SLU)

E Extensive in extent (30–60% of SLU)

C Common in extent (20–30% of SLU)

L Limited in extent (10–20% of SLU)

M Minor in extent (<10% of SLU)

Further information: [DEWNR Soil and Land Program](#)

