

# LAND SYSTEMS OF THE CAPRICORNIA COAST

## MAP 2 ROCKHAMPTON - YEPPOON AREA



SCALE 1:250 000

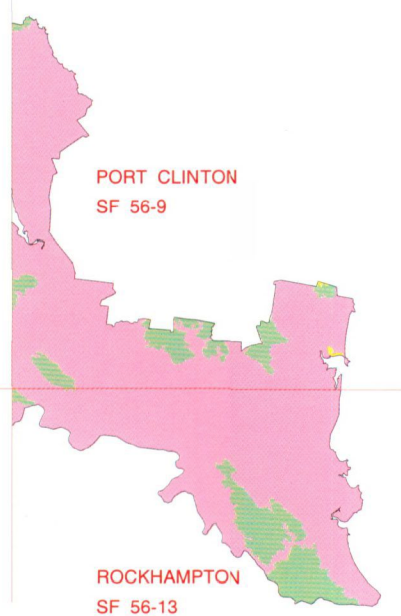
0 5 10 15 20 25 kilometres

TRANSVERSE MERCATOR PROJECTION  
GREY NUMBERED GRID LINES ARE 1000 METRE INTERVALS OF THE AUSTRALIAN MAP GRID, ZONE 56.  
GRID VALUES ARE SHOWN IN FULL AT THE SOUTHWEST CORNER OF THE MAP.

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### RELIABILITY DIAGRAM

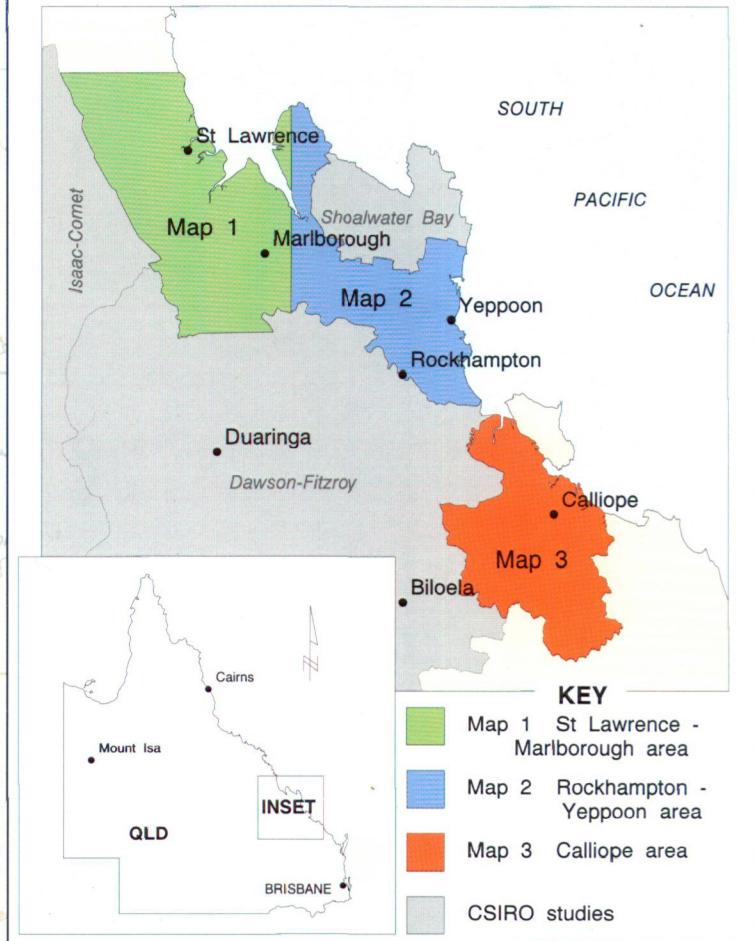


This is a reconnaissance land resource survey. It is based on aerial photography interpretation and field traverses with site descriptions ranging from one observation to an area of 1000 hectares to one observation to an area of 400 hectares.

- A Detailed field traverses and site descriptions; aerial photography interpretation.
- B Limited field traverses and site descriptions; aerial photography interpretation.
- C Aerial photography interpretation only.

Key to 1:250 000 sheets

### LOCALITY MAP



### BASE MAP LEGEND

- Build-up area; National route marker
- Principal road and highway; Road Bridge
- Secondary road; Distance in kilometres
- Minor road
- Vehicular track
- Railway, multiple track; Station; Railway bridge
- Railway, single track; Railway tunnel
- Light railway or tramway
- Aerodrome; Landing Ground

- Power transmission line; Fence
- Mine; Quarry
- Buildings; Homestead in sparsely settled area
- Drive-in theatre; Yard
- Trig station; Spot elevation

### NOTES

LAND SYSTEMS DATA captured to 1992 rectified Thematic Mapper imagery.  
LAND SYSTEMS DATA captured at 1:100 000 scale and compiled to 1:250 000 scale.  
BASE MAP compiled from scanned 1:250 000 Topographic Series supplied by the Australian Surveying & Land Information Group (AUSLIG), Belconnen, ACT.  
ADDITIONAL INFORMATION from this survey is available from the Land Resource Information System, DPI, Rockhampton.  
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### REFERENCE

MAP CODE	LAND SYSTEM	LANDFORM AND GEOLOGY	MAJOR SOILS	REMNANT NATIVE VEGETATION
<b>MOUNTAINS</b>				
<b>Granitic Rocks</b>				
Cw	Castletower	Steep to precipitous mountains on granitic rocks.	Shallow, stony brown and black massive coarse sands and loams; shallow bleached sands.	Eucalypt woodland (white mahogany, narrow-leaved ironbark, brown bloodwood); vine forest.
<b>Volcanic Rocks</b>				
Wh	Wheeler	Steep to precipitous volcanic plugs on trachyte.	Shallow, stony brown massive loams; shallow, stony bleached, massive loams.	Eucalypt woodland (white mahogany, pink bloodwood); vine forest.
Bs	Berserker	Steep mountains and very steep escarpments on acid and intermediate volcanic rocks and minor intrusions.	Shallow, stony brown and black massive loams and clay loams; shallow, stony, black and brown, structured, uniform clays and gradational clay loams.	Eucalypt woodland (lemon-scented gum, white mahogany); vine forest.
<b>Serpentine</b>				
Mb	Marlborough	Steep mountains on serpentine.	Shallow, stony, black, uniform clays; red, nodular, structured clays.	Eucalypt woodland (serpentine ironbark).
<b>Metamorphic Rocks</b>				
Mg	Magog	Steep mountains on metamorphic rocks.	Shallow, stony, brown and black massive loams and clay loams; bleached, massive sands and loams.	Eucalypt woodland (narrow-leaved ironbark, Queensland peppermint).
<b>HILLS</b>				
<b>Eucalypt Open Forest and Woodland</b>				
<b>Granitic Rocks</b>				
Gf	Glassford	Steep to rolling hills on granitic rocks.	Sandy and loamy surface, red and brown duplex soils; brown, red and yellow, massive gradational loams and clay loams.	Eucalypt woodland (silver-leaved ironbark, gum-topped bloodwood).
Bw	Bowenia	Steep to rolling hills on granitic rocks.	Sandy and loamy surface, red and brown duplex soils; brown and yellow, massive gradational loams and clay loams.	Eucalypt woodland (white mahogany, pink bloodwood, swamp mahogany).
Bk	Inkerman	Rolling low hills on granitic rocks.	Bleached coarse sands with silica hardpans; brown, red and yellow, massive coarse sands and loams.	Eucalypt woodland (narrow-leaved ironbark, pink bloodwood).
<b>Volcanic Rocks</b>				
Ch	Chalmers	Rolling to steep hills on acid and intermediate volcanics and steeply dipping sedimentary rocks.	Bleached massive sands and loams; shallow, stony brown and black, structured uniform clays and gradational clay loams.	Eucalypt woodland (narrow-leaved ironbark, pink bloodwood, ghost gum).
Bn	Balnagowan	Rolling low hills and rises on intermediate and basic volcanic rocks.	Shallow to deep, black and brown, structured uniform clays and gradational clay loams.	Eucalypt woodland (silver-leaved ironbark, gum-topped bloodwood or narrow-leaved ironbark, pink bloodwood).
<b>Serpentine</b>				
Tm	Tungumull	Rolling low hills and undulating rises on serpentine.	Shallow, stony black, uniform clays; shallow, stony red, structured gradational clay loams and uniform clays.	Eucalypt woodland (serpentine ironbark).
<b>Sedimentary Rocks</b>				
Ru	Rundie	Steep to rolling hills on steeply dipping sedimentary rocks.	Shallow, stony brown and black massive loams and clay loams.	Eucalypt open forest (lemon-scented gum, narrow-leaved ironbark, pink bloodwood, Queensland peppermint) with mixed understorey.
Bg	Bungundarra	Steep to rolling hills with long footslopes on steeply dipping sedimentary rocks.	Red, structured gradational clay loams and uniform clays.	Eucalypt open forest (lemon-scented gum, narrow-leaved ironbark, pink bloodwood) with mixed understorey; vine forest.
Wd	Wandilla	Undulating to rolling low hills, rises and fans on sedimentary rocks.	Bleached sandy and loamy surface, grey and brown, acid sodic duplex soils.	Eucalypt open forest (lemon-scented gum, narrow-leaved ironbark, Queensland peppermint) with mixed understorey; gum-topped box woodland.
Ar	Artillery	Undulating low hills, rises and fans on fine grained sedimentary rocks.	Bleached sandy and loamy surface, brown and grey, alkaline sodic duplex soils.	Eucalypt woodland (narrow-leaved ironbark, Queensland peppermint).
<b>Metamorphic Rocks</b>				
Lv	Lowville	Rolling hills, rises and fans on metamorphic rocks.	Shallow, stony, bleached clay loamy and silty surface, brown and grey, alkaline sodic duplex soils.	Eucalypt woodland (narrow-leaved ironbark, Queensland peppermint, rosewood).
<b>Vine Forest</b>				
<b>Granitic Rocks</b>				
Sf	Sugarloaf	Steep hills and escarpments and valley flats on granitic and intermediate volcanic rocks.	Brown, red and yellow, massive gradational loams and clay loams.	Vine forest; eucalypt woodland (narrow-leaved ironbark, pink bloodwood).
<b>Volcanic Rocks</b>				
Bt	Belmont	Steep hills and rolling low hills on intermediate and basic volcanic rocks.	Shallow, stony red, brown and black structured uniform clays and gradational clay loams.	Vine forest.
<b>Sedimentary Rocks</b>				
Mo	Moore	Steep to rolling hills and rises on sedimentary rocks.	Shallow, stony brown, red and dark structured gradational clay loams and uniform clays.	Vine forest.
Et	Etna	Steep hills and rises on limestone; sinkholes and caves.	Shallow, red, structured uniform clays and gradational clay loams.	Vine forest.
<b>UNDULATING RISES AND PLAINS</b>				
<b>Eucalypt Woodland</b>				
<b>Granitic Rocks</b>				
Mv	Maryvale	Undulating rises and plains and colluvial fans associated with hills on granitic rocks.	Brown, red and yellow, massive gradational coarse sandy loams and clay loams.	Eucalypt woodland (white mahogany, pink bloodwood, swamp mahogany).
Gw	Galloway	Gently undulating rises and plains on granitic rocks; isolated low hills.	Sandy and loamy surface, brown and black duplex soils; bleached sandy and loamy surface, brown and grey, alkaline sodic duplex soils.	Eucalypt woodland (silver-leaved ironbark, gum-topped bloodwood); poplar box woodland.
<b>Volcanic Rocks</b>				
Mc	Mackford	Undulating rises, low hills and plains on intermediate volcanic rocks and greenstone.	Red and brown, structured uniform clays and gradational clay loams.	Eucalypt woodland (silver-leaved ironbark, gum-topped bloodwood).
Pk	Parkhurst	Undulating rises, plains, and isolated low hills on basic and intermediate volcanics, with igneous intrusions.	Red and brown, structured uniform clays and gradational clay loams.	Eucalypt woodland (narrow-leaved ironbark, ghost gum, Moreton Bay ash).
Sl	Sleipner	Undulating footslopes and rises, and gently undulating fans below hills on intermediate and acid volcanic rocks, and small areas of granitic rocks.	Bleached loamy and clay loamy surface, brown and grey, alkaline sodic duplex soils.	Eucalypt woodland (blue gum, narrow-leaved ironbark).
<b>Sedimentary Rocks</b>				
Ti	Torilla	Undulating rises and low hills on deeply weathered sedimentary and metamorphic rocks.	Red, structured gradational clay loams and uniform clays.	Eucalypt woodland (narrow-leaved ironbark, pink bloodwood).
Fi	Fernlea	Undulating rises and plains on sandstone and unconsolidated coarse sediments.	Red, massive gradational loams and clay loams.	Eucalypt woodland (narrow-leaved ironbark, pink bloodwood).
Fs	Fanside	Undulating footslopes and rises on sedimentary rocks, and gently undulating fans below rolling hills.	Red, structured gradational clay loams and uniform clays; shallow, bleached sandy and loamy surface, red duplex soil.	Eucalypt woodland (pink bloodwood, blue gum, swamp mahogany, poplar gum) with mixed understorey.
Cu	Couti Outi	Undulating rises and plains and isolated low hills on sedimentary rocks and unconsolidated sediments.	Bleached sandy and loamy surface, brown and yellow, mottled duplex soil; brown and yellow, mottled massive gradational loams and clay loams.	Eucalypt woodland (narrow-leaved ironbark, pink bloodwood, white mahogany); teatree woodland (broad-leaved teatree, narrow-leaved teatree).
<b>Metamorphic Rocks</b>				
Dh	Dalcalmah	Undulating rises and low hills on metamorphic rocks, and fans on unconsolidated sediments.	Shallow, stony brown and black massive loams and clay loams; stony, red, massive gradational loams and clay loams.	Eucalypt woodland (lemon-scented gum, narrow-leaved ironbark); rosewood open forest.
<b>Teatree Woodland</b>				
<b>Sedimentary Rocks and Unconsolidated Sediments</b>				
Ba	Barkalia	Gently undulating plains, rises and fans on unconsolidated coarse and medium textured sediments; circular swamps.	Bleached sandy and loamy surface, brown and yellow, mottled massive gradational loams and clay loams.	Teatree woodland (broad-leaved teatree, narrow-leaved teatree); eucalypt woodland (narrow-leaved ironbark, pink bloodwood, swamp mahogany).
<b>Vine Forest</b>				
<b>Volcanic Rocks</b>				
Rm	Rossmoya	Undulating rises and plains on deeply weathered basalt; saline outbreaks on lower slopes.	Deep, red, structured uniform clays and gradational clay loams.	Vine forest.
Br	Bermoya	Gently undulating rises and plains on partially weathered basalt; saline outbreaks on lower slopes.	Shallow to moderately deep, black cracking clays.	Vine forest; eucalypt open woodland (silver-leaved ironbark, gum-topped bloodwood).
<b>Brigalow Scrub</b>				
<b>Unconsolidated Sediments</b>				
Bl	Blackwater	Level to gently undulating plains and rises on unconsolidated clay sediments; minor merrimole.	Grey, brown and black cracking clays.	Brigalow scrub.
<b>OLD ALLUVIAL PLAINS AND ALLUVIAL FANS</b>				
<b>Cracking Clays</b>				
Ag	Alligator	Broad alluvial plains; rarely incised; non-erose flooding; saline seepage around base of adjacent rises and low hills; moderate melonhole.	Grey and brown, acid cracking clays.	Blue gum woodland.
Kw	Kunwarara	Broad alluvial plains and swamps on fine textured alluvium derived from serpentine and overlying magnetite; moderate melonhole.	Black and brown, alkaline cracking clays; black self-mulching magnetic cracking clays.	Blue gum woodland; black teatree open forest.
<b>Duplex Soils</b>				
Hw	Hedlow	Broad, level to gently undulating alluvial plains and fans on silty and fine textured alluvium.	Bleached loamy, clay loamy, and silty surface, brown and grey, alkaline sodic duplex soils.	Mixed eucalypt woodland (blue gum, narrow-leaved ironbark, poplar gum, swamp mahogany).
Ni	Nulgi	Broad, level to gently undulating alluvial plains on silty and fine textured alluvium.	Bleached silty surface, brown and grey, alkaline sodic duplex soils.	Gum-topped box woodland.
Ld	Lindon	Broad, level alluvial plains on medium and coarse textured granitic alluvium.	Bleached coarse sands with silica hardpans.	Teatree woodland (broad-leaved teatree, narrow-leaved teatree) with eucalypt emergents.
<b>FLOODPLAINS AND LOCAL ALLUVIAL PLAINS</b>				
<b>Cracking Clays</b>				
Co	Coolibah	Broad floodplains along the Fitzroy River.	Black and brown, self-mulching cracking clays.	Coolibah woodland.
Ce	Coreen	Broad floodplains along the Fitzroy River.	Black and brown, self-mulching cracking clays.	Brigalow scrub.
Rn	Raglan	Broad floodplain with meander channels along the lower Fitzroy River; saline marine plains in lower sections flanking tidal streams.	Black and grey, mottled cracking clays.	Blue gum woodland; swampy grassland; marine couch grassland.
Gl	Greenlakes	Broad floodplain with extensive swamps associated with the lower reaches of Hedlow and Daly Creeks.	Massive surface, grey mottled cracking clays.	Blue gum woodland; paperbark open forest (weeping teatree).
<b>Gradational Soils</b>				
Dy	Daly	Floodplains and dissected alluvial fans along Daly, Limestone and Alligator Creeks.	Bleached mottled grey, massive gradational silty loams.	Mixed eucalypt woodland (poplar gum, blue gum, pink bloodwood, swamp mahogany).
<b>Duplex Soils</b>				
Nk	Nankin	Narrow valley flats associated with steep volcanic mountains.	Clay loamy surface, brown and red duplex soils; brown and red, structured gradational clay loams.	Eucalypt woodland (blue gum, Moreton Bay ash, pink bloodwood, narrow-leaved ironbark).
<b>COASTAL DUNES AND SAND PLAINS</b>				
Bf	Byfield	Steep, high parabolic dunes and swales.	Deep, bleached sands.	Eucalypt woodland (white mahogany, pink bloodwood, coast banksia, black sheoak); coastal heath.
Jk	Joskeleigh	Gently undulating beach ridge plains and swamps along the coast.	Yellow and red sands; brown shelly sands.	Eucalypt woodland (pink bloodwood, white mahogany, Moreton Bay ash, swamp mahogany and coast banksia); vine thicket.
Wp	Waterpark	Freshwater swamps and low rises on sedimentary rocks behind the parabolic dunes.	Wet bleached sands; black peaty sands; loamy surface, brown and yellow duplex soil.	Broad-leaved teatree woodland; wet heath; sedgeland; eucalypt woodland (white mahogany, turpentine, coast banksia).
<b>MARINE PLAINS</b>				
Wv	Warash	Broad marine plains with a dense drainage channel network; freshwater swamps.	Black and grey, mottled cracking clays; crusting surface, grey mottled saline cracking clays.	Swamp grasses; sedgeland.
Bs	Broadsound	Broad marine plain elevated above regular tidal influence; incised by shallow channels; freshwater and brackish swamps.	Crusting surface, grey mottled, saline cracking clays; black and grey, mottled cracking clays.	Marine couch grassland.
Ct	Carpentaria	Marine plains, with extensive bare tidal flats inundated by tidal waters and dissected by tidal channels.	Crusting surface, grey mottled, saline cracking clays; saline muds and sands.	Mangrove low closed forest; marine couch grassland; samphire.
<b>MISCELLANEOUS</b>				
U	Urban	(230) Unique Map Area (UMA) number		

LAND SYSTEMS OF THE CAPRICORNIA COAST  
MAP 2 ROCKHAMPTON - YEPPOON AREA  
**LAND SYSTEMS**  
DPI REF. No. 95-CCL-R-A0-3410