

Estuarine Wetland

salt marsh



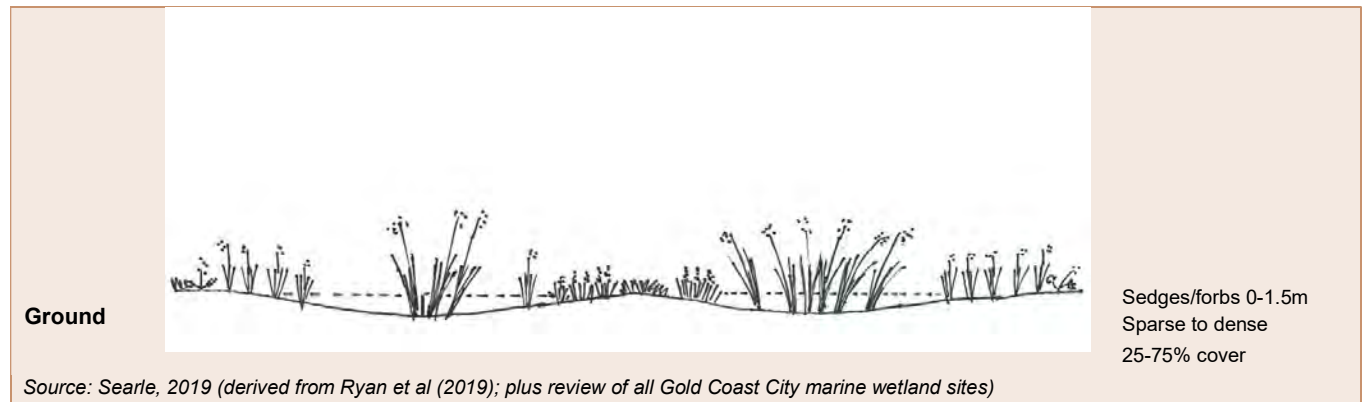
VEGETATION TYPE 22b

Regional Ecosystem: 12.1.2

Marine Sedgeland on Marine Deposits

COMMUNITY STRUCTURE

Marine sedgelands typically occupy low-lying areas on the outer margins of marine plains, and are often inundated at least periodically by fresh or saline-influenced surface water. Sedges are common (*Schoenoplectus litoralis*, *Fimbristylis dichotoma*), especially in the lowest ponded areas, and reach up to 1.5m in height, while other semi-aquatic forbs and grasses also occur.



Characteristic plant species

Approximately **35 native plants species** have been recorded for this vegetation type. Characteristic plant species for this vegetation type are listed below. Dominant (most numerous) species are shaded. Plants in blue text are listed as [Wetland Indicator Species](#) in DES Flora Wetland Indicator Species List and are adapted to and dependent on wetlands.



Indicates species is a City-wide significant species

GROUND LAYER AND VINES

Marine grasses, graminoids (non-woody plants with a grass-like morphology), forbs (non-woody, broad-leaved, flowering plants) and samphires (succulent, herbaceous plants that grows in high salinity environments). Vines may extend upwards into the canopy



Streaked Arrowgrass

Cyncogeton striata
GRAMINOID (SEDGE)



Saltwater Couch

Sporobolus virginicus
GRASS (CREEPING)



Sea Celery

Apium prostratum
FORB



Rusty sedge

Fimbristylis ferruginea
GRAMINOID (SEDGE)



Beaded Samphire

Sarcocornia quinqueflora
SAMPHIRE



Mangrove Club-rush

Schoenoplectus subulatus
(formerly *Schoenoplectus littoralis*)
GRAMINOID (SEDGE)



Prickly Couch

Zoysia macrantha
OTHER GRASS

GROUND LAYER AND VINES

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Mangrove Fern
Acrostichum speciosum
FERN



Mangrove Wax-flower Vine
Vincetoxicum carnosum
(Formerly *Cynanchum carnosum*)
VINE



Bacopa
Bacopa monnieri
FORB (CREEPING)



Coastal Pigface
Carpobrotus glaucescens
FORB (CREEPING)



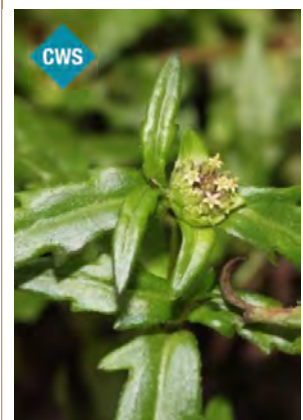
River Lily
Crinum pedunculatum
FORB (CLUMPING)



Red Crumbweed
Dysphania littoralis
FORB



Yellow Eclipta
Eclipta platyglossa
FORB



Enydra
Enydra woollsii
FORB



Rusty Sedge
Fimbristylis polytrichoides
SEDGE



Shield Pennywort
Hydrocotyle verticillata
FORB (CREEPING)



Goat's Foot Morning Glory Vine
Ipomoea pes-caprae subsp.
brasiliensis
VINE (SCABMLING)



Swamp Club-rush
Isolepis inundata
GRAMINOID (SEDGE)

GROUND LAYER AND VINES

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Sea Rush

Juncus kraussii
GRAMINOID (RUSH)



Common Rush

Juncus usitatus
GRAMINOID (RUSH)



Common Reed

Phragmites australis
GRAMINOID (REED)



Carpet Weed

Phyla nodiflora
FORB (CREEPING)



Creeping Brookweed

Samolus repens
FORB



Sea Purslane

Sesuvium portulacastrum
FORB



Lesser Sea-Spurrey

Spergularia marina
FORB



New Zealand Spinach

Tetragonia tetragonioides
FORB

City-wide significant plant species



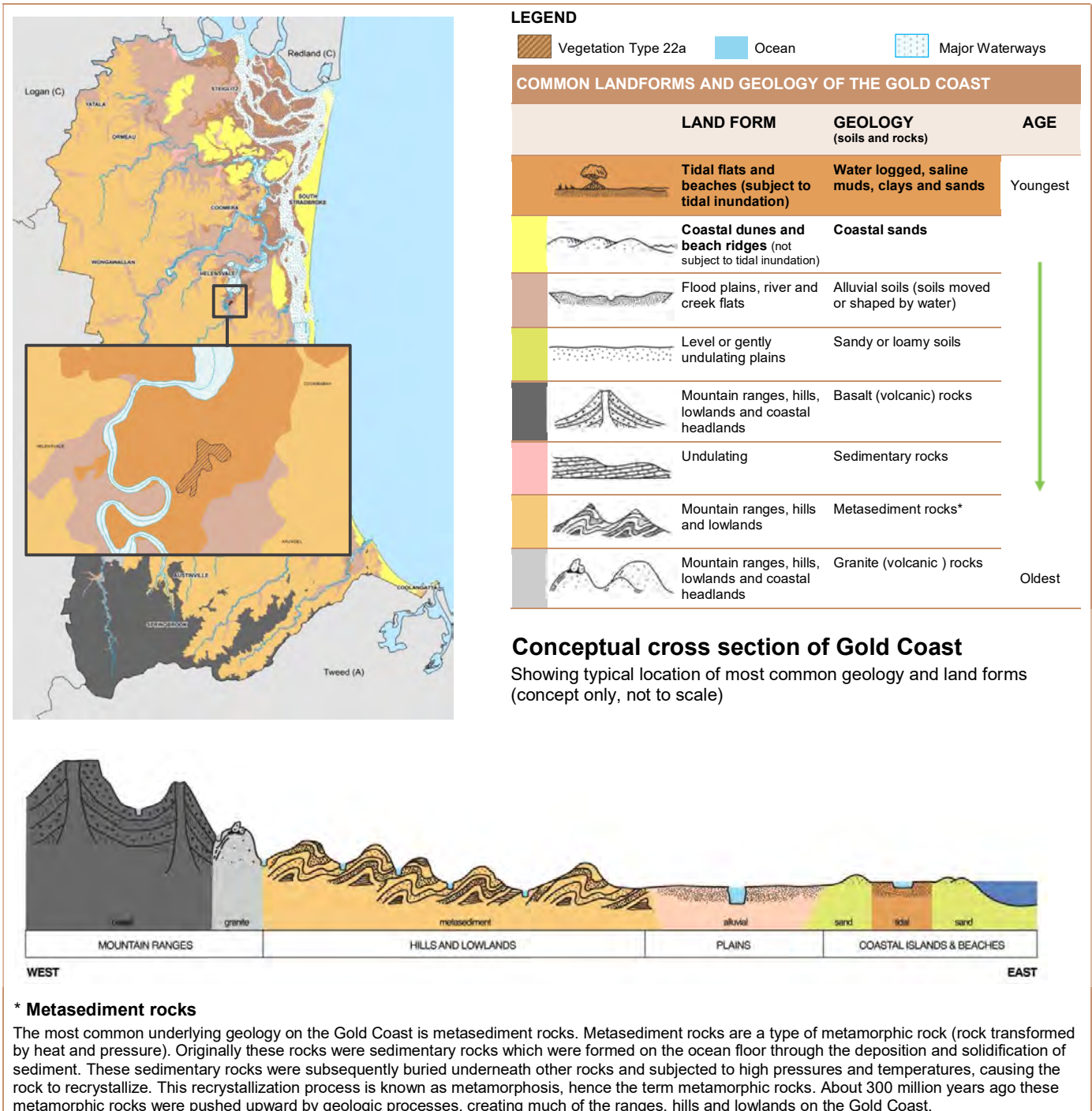
The City of Gold Coast recognises species which are locally significant as City-wide significant (CWS) species. These species are important because they may be threatened, restricted to the Gold Coast, or at the edge of their geographic range. Characteristic species which are CWS species are identified above. No other CWS plant species have been identified for this vegetation type.

OCCURRENCE

Native plants occur in vegetation communities, which are consistently associated with a particular soil type, landform (shape of the land, e.g. hills or plains) aspect (position on a slope in relation to the sun) and climate.

Marine sedgeland typically form narrow bands or strips of low open vegetation along the interface of freshwater and saline influence, and are often found along the outer margin of VT22 (*Sporobolus virginicus* grassland). Most areas of these sedgelands are not mapped, as they are mostly too small to be differentiated at the scale of vegetation mapping, or are otherwise included in surrounding grassland, mangrove or Swamp Oak communities. Only a few areas are of a sufficient size to be mapped individually, at Coombabah Reserve, although many small areas of this vegetation type exist along the margins of the marine plain and adjoining coastal lowlands throughout Gold Coast City.

Historic distribution of Vegetation Type 22b



2017 EXTENT AND CONSERVATION STATUS

Gold Coast

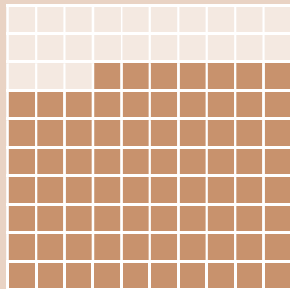
Historically, vegetation type 22b was the second-least common vegetation type in the Gold Coast area. The 2017 extent* of this vegetation type on the Gold Coast was 3.4 hectares.

1 HECTARE (HA) = 2.46 ACRES ≈ THE SIZE OF AN INTERNATIONAL RUGBY FIELD

EXTENT (ha)

Historic
4.4ha

2017*
3.4 ha
77% of
historical
extent

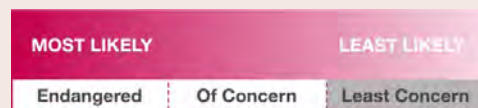


* Extent as mapped in 2017. Includes remnant vegetation only. Does not include disturbed remnant or regrowth.

Queensland

The conservation status of vegetation in Queensland is specified under the *Vegetation Management Act 1999*, which lists this regional ecosystem (RE 12.1.2) as being 'Least Concern'.

LIKELIHOOD OF BECOMING EXTINCT (in QLD) due to biodiversity loss/degradation



USEFUL RESOURCES

City of Gold Coast website: Environmental weeds and invasive plants.

Find out more about regional ecosystems at the Queensland Government Regional Ecosystems webpage.

CREDITS

Content – ngh Environmental and Jason Searle.
Vegetation Type Photo – Lui Weber ©
Unless otherwise noted all other photos – Glenn Leiper ©

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THREATS

Marine sedgeland is dependent on natural water flow and is particularly sensitive to changes in ground level both where they occur and also within the local catchment that feeds water into them. They are therefore threatened by clearing, earthworks and development within their catchments. As they are open communities with little shading, they are also prone to invasion by exotic weeds, particularly floating aquatic plants such as Water Hyacinth (*Eichhornia crassipes*) and wetland grasses such as Para Grass (*Brachiaria mutica*). Wild aster (*Symphotrichum subulatum*) is also often present. Weed control is therefore critical to the preservation of these wetlands, and control methods also need to be sensitive to aquatic fauna.

Common threats to all vegetation types

Clearing

Native vegetation is protected by Federal, State and local legislation. However, with increasing population growth in the region, Southeast Queensland is experiencing large amounts of vegetation clearing, particularly in areas designated for urban development. Protecting native vegetation on your property is one of the most beneficial things you can do to protect wildlife and the natural environment.

Weeds

Environmental weeds are the second biggest threat to our natural environment after land clearing. Environmental weeds (introduced plants that have naturalised and are invading our bushland) degrade our natural environment by:

- out competing native plant species for available nutrients and light
- taking over and transforming native landscapes often leading to local plant or animal extinctions and loss of biodiversity
- reducing the availability of food and other resources for many native animals whilst sometimes benefiting pest animals
- increasing the risk of destructive wildfire
- often being toxic to people and animals.

Fire

Very broadly, vegetation is either adapted to fire or fire sensitive. Fire can become a threat if:

- it extends into vegetation types which should not be burnt e.g. rainforest,
- the frequency and/or intensity of the fire is too high, and/or
- the area burnt is too large.

Grazing

The grazing of animals like cattle, horses, goats and feral animals such as deer can cause trampling or loss of diversity of seedlings and compact soil, preventing natural regeneration.

Collecting

Unethical and illegal collection of plant specimens in the wild poses a serious threat to some species, particularly orchids, grass trees and epiphytes.

Climate change

Changes in temperature and rainfall can have significant effects on our city's vegetation. For example, without consistent rainfall, areas become drier, potentially resulting in higher fire frequency and/or intensity, which some plants and vegetation communities won't be able to tolerate. Plants (and animals) need available space to migrate as conditions change, with high altitude species at the greatest risk as there is nowhere suitable for them to go. Warmer conditions may also provide the right habitat for a greater variety of weeds. As sea levels rise, salt water moves further upstream and vegetation also becomes inundated.