

# PROTECTED COASTAL

woodland



## VEGETATION TYPE 3e

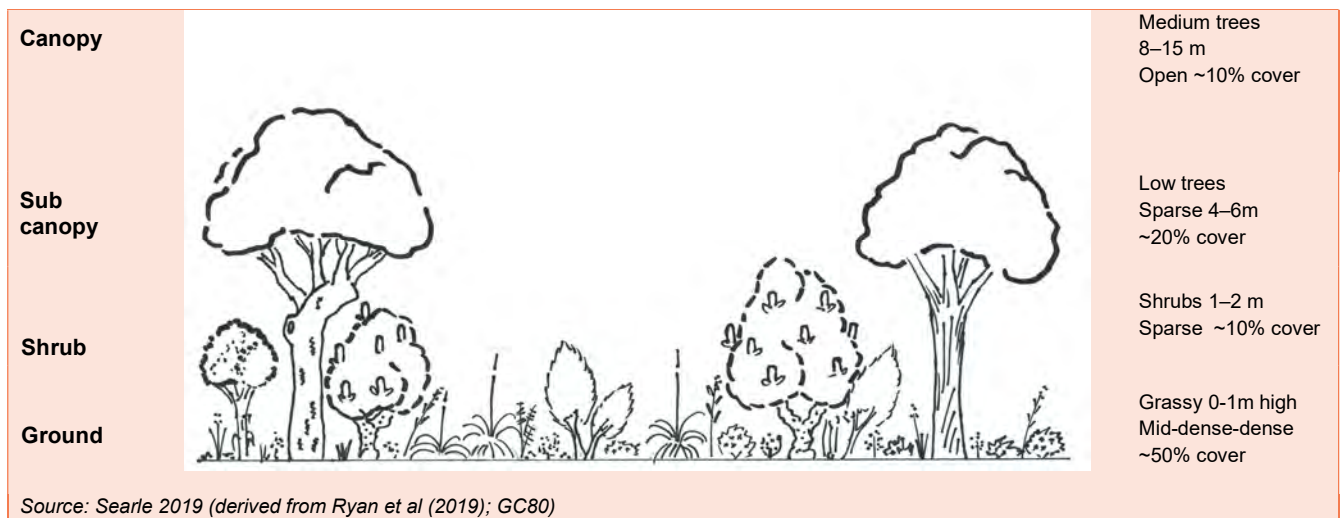
Regional Ecosystem: 12.2.6

Scribbly Gum (*Eucalyptus racemosa*)  
Woodland on Coastal Sands

## COMMUNITY STRUCTURE

Vegetation type (VT) 3e is typically a low woodland from 8-15m high, with an open canopy (10-30% cover shading underlying plants).

Diagnostic trees include Scribbly Gum (*Eucalyptus racemosa*), usually with Swamp Mahogany (*Eucalyptus robusta*). Wallum Banksia (*Banksia aemula*) is conspicuous in the low tree and shrub layer to 6m high.



The sub-canopy and shrub layers below the canopy are usually sparse and comprised of small-leaved heathland plants (*i.e.* *Leptospermum trinervum*, *L. polygalifolium*, *Baeckea frutescens*, *Monotoca sp* (Fraser Island) *etc.*).

The ground layer typically forms a mosaic of grassland and more open areas, which have a conspicuous layer of leaves and bark. Vegetation in the ground layer ranges in height and is dominated by grasses and the grass tree (*Xanthorrhoea fulva*), and open areas of leaf litter.

# Characteristic plant species

Approximately 15 native plants species have been recorded for this vegetation type. Characteristic plant species are listed below. Dominant (most numerous) species are shaded.



Indicates species is a preferred koala food tree\*



Indicates species is a Glossy Black-Cockatoo feed tree species



Indicates species is a City-wide significant species

\* It is noted that in addition to preferred food trees, koalas utilise a range of eucalypt and non-eucalypt tree species for supplemental feeding and other uses such as shelter. These other species are also important and necessary features of koala habitat.

## CANOPY

Upper layer of vegetation exposed to sunlight which creates a canopy that shades lower layers.



**Scribbly Gum**  
*Eucalyptus racemosa*



**Swamp Mahogany**  
*Eucalyptus robusta*



City of Gold Coast ©

## SUB-CANOPY

Tree layer below canopy.



**Wallum Banksia**  
*Banksia aemula*



**Prickly-leaved Paperbark**  
*Melaleuca nodosa*



**Fraser Island Broom Heath**  
*Monotoca* sp. (Fraser Island P. Baxter 777)



**Paperbark Tea Tree**  
*Leptospermum trinervium*

## SHRUB LAYER

Middle layer of vegetation usually made up of small trees and woody shrubs.



**Fraser Island Broom Heath**  
*Montoca sp.* (Fraser Island P. Baxter 777)



**Weeping Baeckea**  
*Baeckea frutescens*



**Wild May**  
*Leptospermum polygalifolium*



**Forest Rose**  
*Boronia rosmarinifolia*

## GROUND LAYER AND VINES

Lowest layer of vegetation. Plant types can include grasses; graminoids (non-woody plants with a grass-like morphology); ferns; forbs (non-woody, broad-leaved, flowering plants) and vines (where present) may extend upwards into the canopy.



**Bracken**  
*Pteridium esculentum*  
FERN



**Pomax**  
*Pomax umbellata*  
FORB



**Long-leaved Mat-rush**  
*Lomandra longifolia*  
GRAMINOID



*Homoranthus virgatus*  
SHRUB

## GROUND LAYER AND VINES

Lowest layer of vegetation. Plant types can include grasses; graminoids (non-woody plants with a grass-like morphology); ferns; forbs (non-woody, broad-leaved, flowering plants) and vines (where present) may extend upwards into the canopy.



**Wallum Grasstree**

*Xanthorrhoea fulva*  
GRASSTREE



**Midyim Berry**

*Austromyrtus dulcis*  
SHRUB



**Common Silkpod**

*Parsonsia straminea*  
VINE (OCCATIONAL)

## City-wide significant plant species



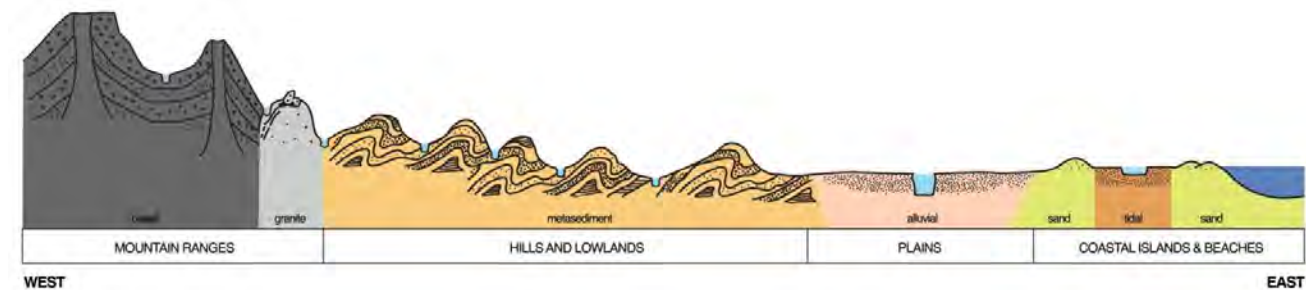
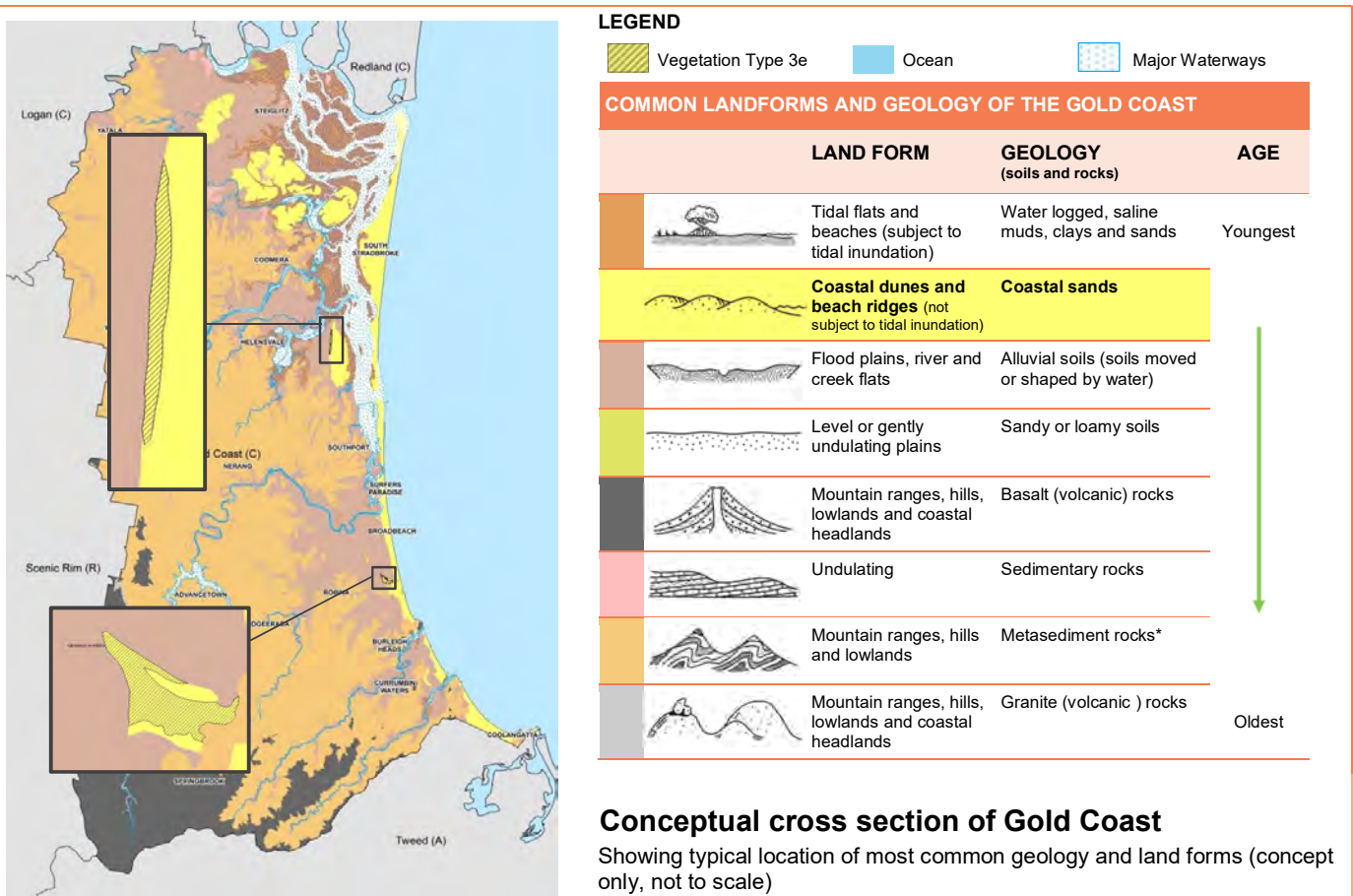
The City of Gold Coast recognises species which are locally significant as City-wide significant (CWS) species. These species are important because they may be threatened, restricted to the Gold Coast, or at the edge of their geographic range. There are no additional CWS plant species recorded in this 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.

Scribbly Gum Woodland with heathy understorey on coastal sand deposits is a naturally restricted vegetation type, previously occurring patchily along the coastal strip between Paradise Point and Coolangatta. Patches large enough to be mapped occurred at Coombabah and Mermaid Waters. On the Gold Coast, this community has been mostly cleared for coastal development. It remains only in small areas around Pine Ridge Conservation Park and at small coastal parklands such as the Cathy Crawford Picnic Area within Pizzezy Park at Miami. This community occurs on sandy infertile soils on deep sand dunes near the coast.

## Historic distribution of Vegetation Type 3e



### \* Metasediment rocks

The most common underlying geology on the Gold Coast is metasediment rocks. Metasediment rocks are a type of metamorphic rock (rock transformed by heat and pressure). Originally these rocks were sedimentary rocks which were formed on the ocean floor through the deposition and solidification of sediment. These sedimentary rocks were subsequently buried underneath other rocks and subjected to high pressures and temperatures, causing the rock to recrystallize. This recrystallization process is known as metamorphism, hence the term metamorphic rocks. About 300 million years ago these metamorphic rocks were pushed upward by geologic processes, creating much of the ranges, hills and lowlands on the Gold Coast.

## 2017 EXTENT AND CONSERVATION STATUS

### Gold Coast

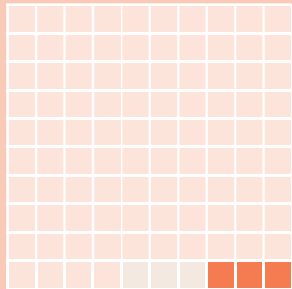
The current extent\* of this vegetation type on the Gold Coast is only 2 hectares.

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

#### EXTENT (ha)

Historic  
59ha

2017\*  
2ha  
3% of  
historical  
extent

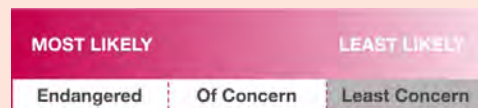


\* Extent as mapped in 2017. Includes remnant vegetation only. Does not include disturbed remnant or regrowth.

### Queensland

The conservation status of vegetation in Queensland is specified under the *Vegetation Management Act 1999*, which lists this regional ecosystem (RE 12.2.6) 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 ©

Version 3, November 2020

## THREATS

Scribbly Gum Woodland with heathy understorey on coastal sand deposits only remains in a few small parkland areas in Gold Coast City, and is threatened by direct development for urban infrastructure in these parks, and by issues associated with fragmentation and urbanisation, including dumping, weed colonisation, gradual decline from wind and excessive drying on exposed margins, lack of natural recruitment, etc..

### About common threats

#### 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
- 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.