

# EUCALYPT

## VEGETATION TYPE 1b

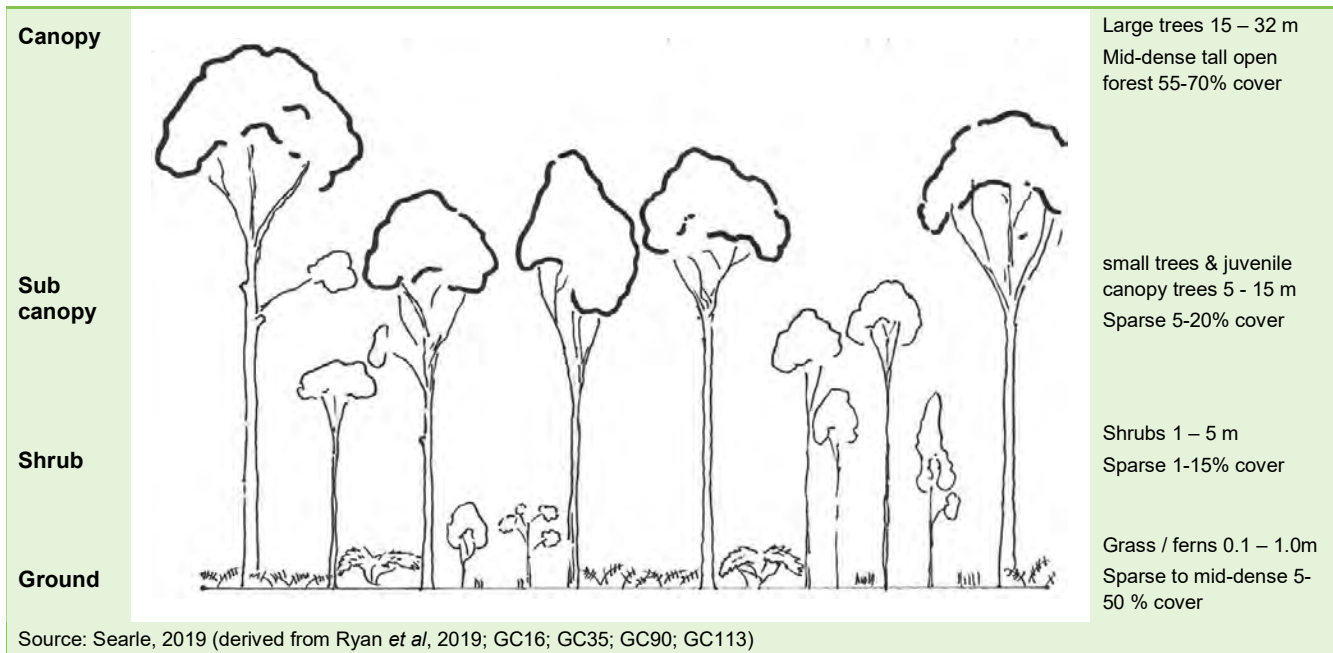
Regional Ecosystem: 12.11.3

Grey Gum - Ironbark (*Eucalyptus propinqua* - *E. siderophloia*) Open Forest on Metasediments



## COMMUNITY STRUCTURE

Vegetation type (VT) 1b is typically a tall open forest in more fertile and sheltered sloping areas at the base of a hill. It has a relatively dense canopy, providing 55-70% cover (% shading underlying plants). The canopy layer is typically 15-32m high, with Grey Gum (*Eucalyptus propinqua*) usually dominant, with Tallowood (*E. microcorys*) and Grey Ironbark (*E. siderophloia*) also often present.



The sub-canopy and shrub layers are sparse to mid-dense, often with a mix of Brush Box and eucalypt saplings, wattles, and other trees which favour moist growing conditions (e.g. *Trochocarpa laurina*, *Polyscias elegans*). The ground layer is dominated by grasses and/or ferns (particularly *Themeda triandra*, *Ottochloa gracillima*, *Imperata cylindrica* and the fern *Calochlaena dubia*). Where fire is excluded, ferns, cycads and other rainforest plants like gingers become more prolific

## Characteristic plant species

Approximately **133 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.



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



**Small-fruited Grey Gum**  
*Eucalyptus propinqua*



**Grey Ironbark**  
*Eucalyptus siderophloia*



TerraArk ©



**Tallowwood**  
*Eucalyptus microcorys*



**Pink Bloodwood**  
*Corymbia intermedia*



**Forest Red Gum**  
*Eucalyptus tereticornis*



**Red Mahogany**  
*Eucalyptus resinifera*

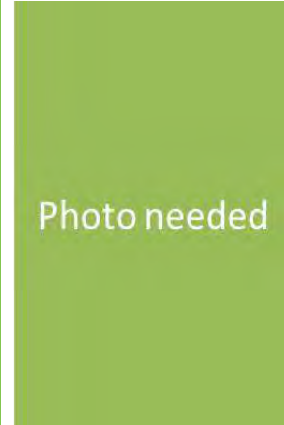


## CANOPY

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



**Brush Box**  
*Lophostemon confertus*



**Broad-leaved White Mahogany**  
*Eucalyptus carnea*

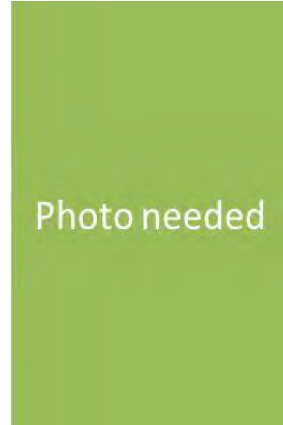


Photo needed

## SUB-CANOPY

Tree layer below canopy



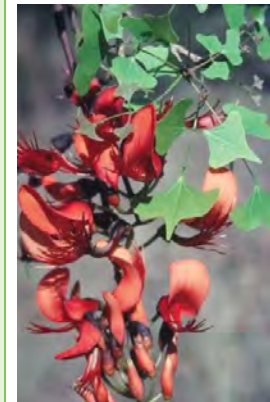
**Forest She-Oak**  
*Allocasuarina torulosa*



**Brush Box**  
*Lophostemon confertus*



**Hickory Wattle**  
*Acacia disparrima* subsp. *disparrima*



**Bat-wing Coral Tree**  
*Erythrina vespertilio*

## SHRUB LAYER

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



**Coffee Bush**  
*Brynia oblongifolia*



**Hairy Psychotria**  
*Psychotria loniceroides*



**Australian Indigo**  
*Indigofera australis*



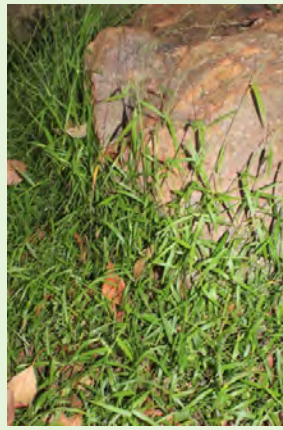
**Forest Hop-bush**  
*Dodonaea triquetra*

## GROUND LAYER AND VINES

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



**Kangaroo Grass**  
*Themeda triandra*  
GRASS (TUSSOCK)



**Graceful / Pademelon Grass**  
*Ottochloa gracillima*  
GRASS



**Blady Grass**  
*Imperata cylindrica*  
GRASS

## GROUND LAYER AND VINES

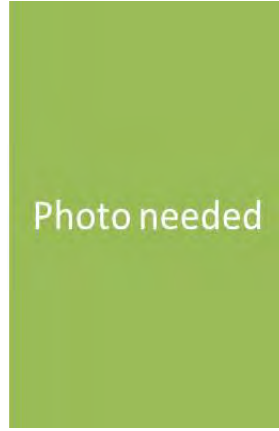
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**Broad-leaved Mat Rush**  
*Lomandra laxa*  
GRAMINOID



**Wiry Panic**  
*Entolasia stricta*  
GRASS (TUSSOCK)



**Bluegrass**  
*Poa cheelii*  
GRASS



**Wild Sorghum**  
*Sorghum leiocladum*  
GRASS (TUSSOCK)



**Barbwire Grass**  
*Cymbopogon refractus*  
GRASS (TUSSOCK)



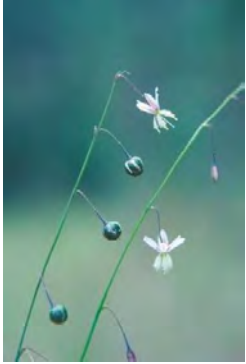





**Soft Bracken**  
*Calochlaena dubia*  
FERN



## 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. In addition to characteristic species identified above as CWS species, the following CWS plant species may also be present in this vegetation type.

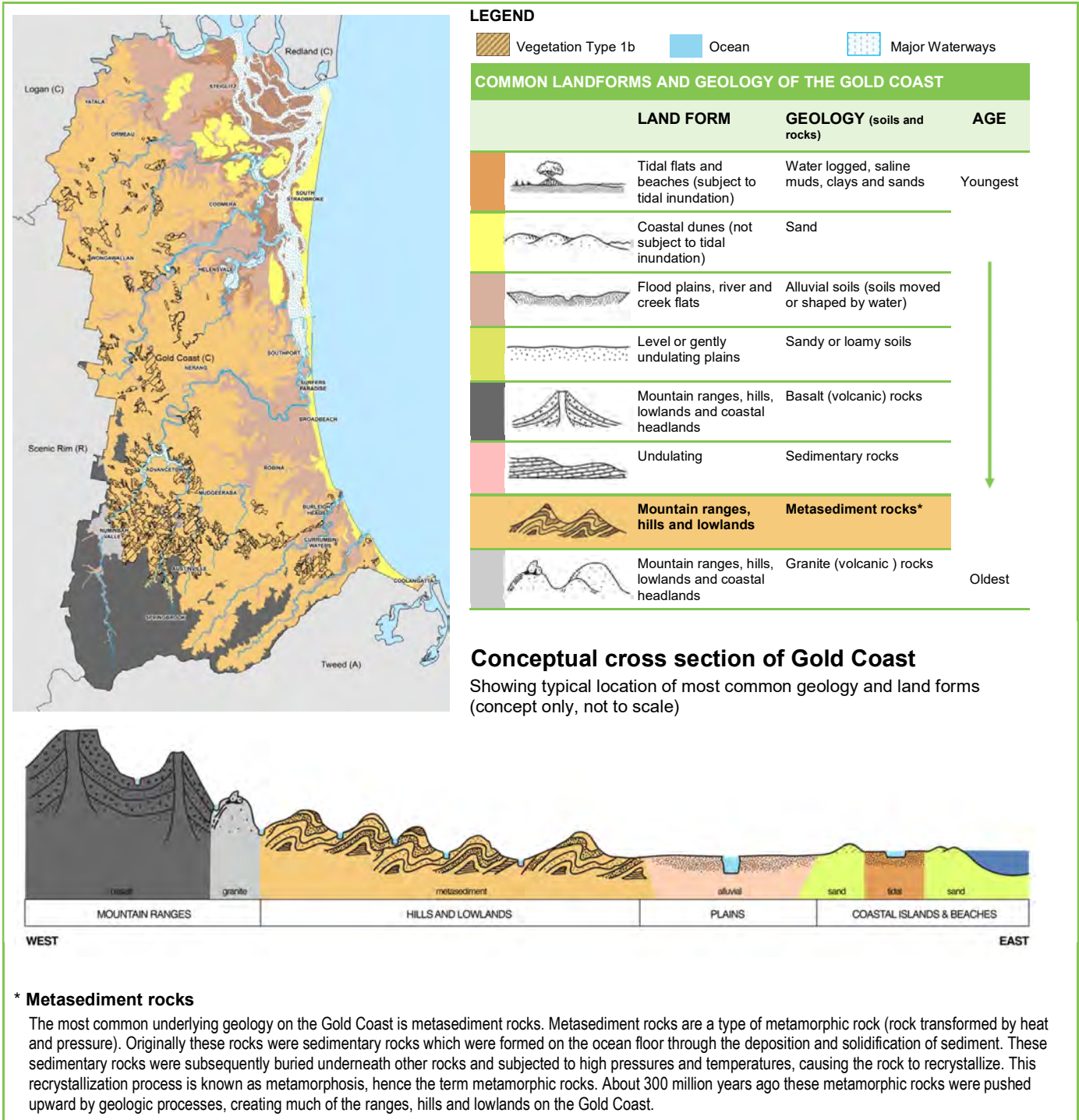
 <p><b>Vanilla Lily</b> <i>Arthropodium paniculatum</i> FORB</p>	 <p><i>Gynura drymophila var. drymophila</i> FORB</p>	 <p><b>Brisbane Lily</b> <i>Proiphys cunninghamii</i> FORB</p>	 <p><b>Snake Tongue Greenhood</b> <i>Pterostylis ophioglossa</i> FORB</p>
 <p><b>Long-leaved Tuckeroo</b> <i>Cupaniopsis newmanii</i> SHRUB</p>	 <p><b>Tea Tree</b> <i>Leptospermum whitei</i> SHRUB</p>		

## 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.

This vegetation type occurs in more fertile and sheltered valleys and footslopes, particularly on the southern face of valleys in the mid to southern hinterland of Gold Coast City. This vegetation also extends further north on lower, undulating hills which are sheltered and retain leaf litter, soil moisture and humic content in the soil. Common localities include Maudsland, Advancetown, Mudgeeraba, Bonogin, Tallebudgera and localised sheltered areas north to Ormeau.

## Historic distribution of Vegetation Type 1b



## 2017 EXTENT AND CONSERVATION STATUS

### Gold Coast

Historically, this community was the third-most common vegetation type on the Gold Coast, and is the second-most common today, with 67% of its original extent remaining. The 2017 extent\* of this vegetation type on the Gold Coast is 4,948 hectares

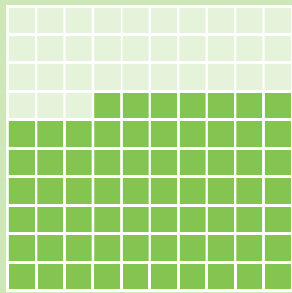
**1 HECTARE (HA) = 2.46 ACRES = THE SIZE OF AN INTERNATIONAL RUGBY FIELD**

#### EXTENT (ha)

Historic  
7,432ha

2017\*  
4,948ha

67% of  
historical  
extent

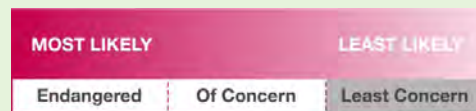


\* Extent as mapped in 2017. Includes remnant vegetation only. Does not include disturbed remnant or regrowth

### Queensland

The conservation status of vegetation in Queensland is specified under the Vegetation Management Act 1999, which lists this regional ecosystem (RE 12.11.3) 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

VT 1b largely occurs in fertile and sheltered foothills and escarpments and is therefore susceptible to infestation by Lantana and other dense understorey growth, particularly in the absence of fire. It can become weed infested when fragmented by clearing, or can transition towards rainforest in the absence of fire, and relies on appropriate fire management (low frequency, moderate to high intensity fires). Weed and fire management are key to the healthy management of this vegetation type. Please refer to the Queensland Government's Regional Ecosystem Description Database for more information including suggested fire regimes.

### 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 types are 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.