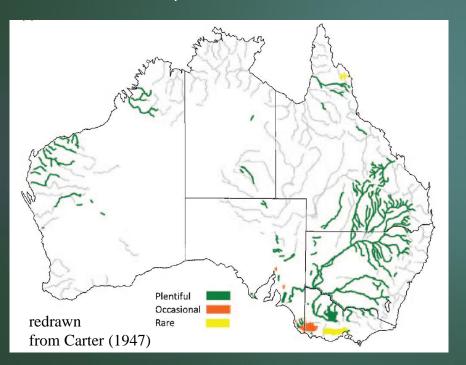


Context



▶ The river red gum, Eucalyptus camaldulensis, has the most widespread natural distribution of any eucalypt species



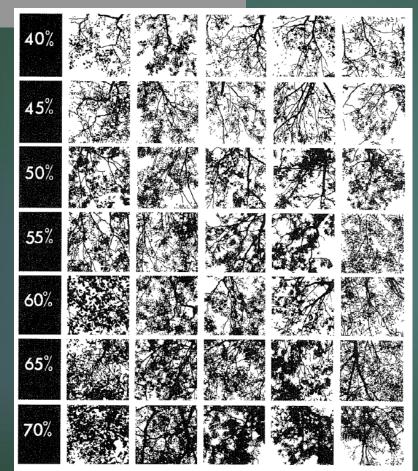
- Their distribution is linked with the alluvial floodplains, except...
- In the south of Victoria and adjacent SA, where they occupy large tracts of undulating hills and plains on heavier soils, including the volcanic plains westwards from Geelong, here they are not generally associated with existing floodplains and channels, though there is groundwater not far below the surface.

What is Woodland?



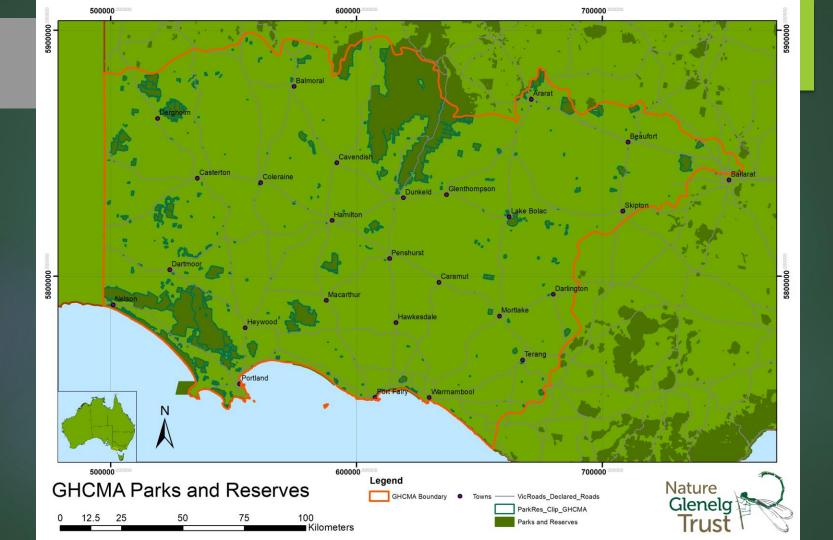
Life form and Height	Foliage Projective Cover of Tallest Plants			
	100-70%	70-30%	30-10%	<10%
Trees > 30 m	Tall closed –forest	Tall open- forest	(Tall woodland)	(Tall open- woodland)
Trees 10-30 m	Closed Forest	Open-forest	Woodland	Open- woodland
Trees < 10 m	Low closed- forest	Low open- forest	Low woodland	Low open- woodland
Shrubs > 2 m (Mallee)	Closed- scrub	Open-scrub	Tall shrubland	Tall open- shrubland

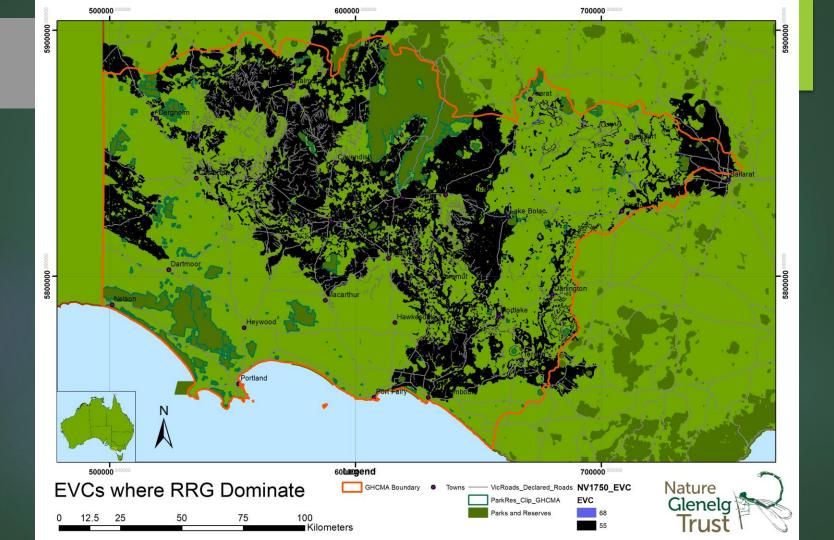
What is Woodland?













Context - Plant Species typical of EVC55-DT

Pimelea humilis

Pimelea curviflora s.l.

Astroloma humifusum

Bossiaea prostrata

Hypericum gramineum

Drosera peltata ssp. peltata

Acaena echinata

Leptorhynchos squamatus

Drosera whittakeri ssp. aberrans

Hydrocotyle laxiflora

Solenogyne dominii

Austrostipa pubinodis

Schoenus apogon

Themeda triandra

Tricoryne elatior

Caesia calliantha

Microtis unifolia

Microlaena stipoides var. stipoides

Centrolepis aristata

Thysanotus patersonii

Convolvulus erubescens spp. agg.

Common Rice-flower

Curved Rice-flower

Cranberry Heath

Creeping Bossiaea

Small St John's Wort

Pale Sundew

Sheep's Burr

Scaly Buttons

Scented Sundew

Stinking Pennywort

Smooth Solenogyne

Tall Spear-grass

Common Bog-sedge

Kangaroo Grass

Yellow Rush-lily

Blue Grass-lily

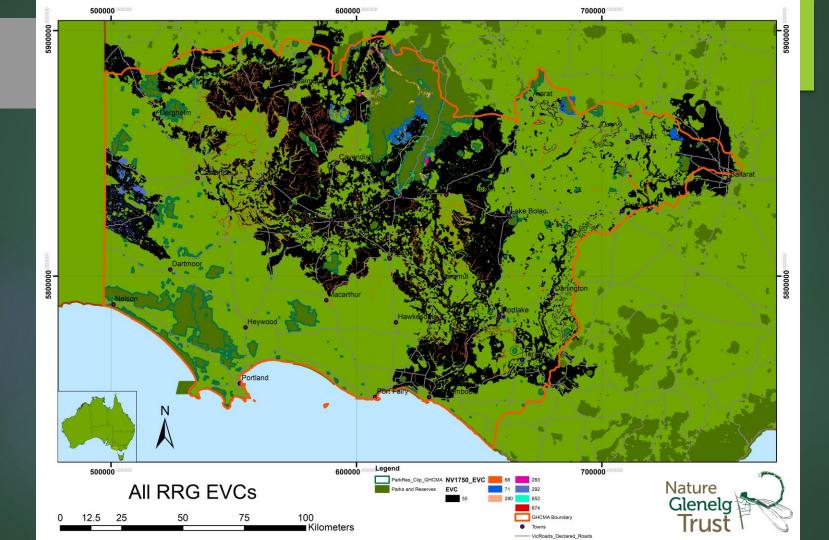
Common Onion-orchid

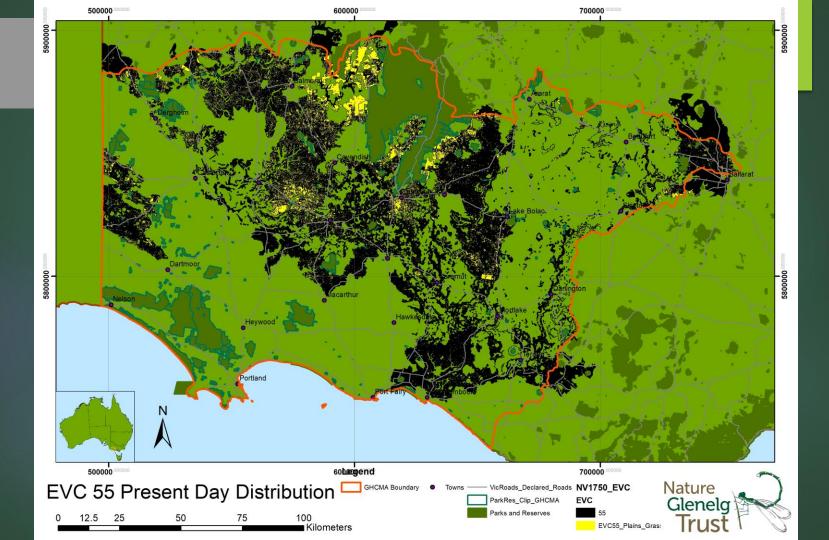
Weeping Grass

Pointed Centrolepis

Twining Fringe-lily Pink Bindweed







River Red Gum Communities -Groundwater Dependent Ecosystems



- ► The Plains Grassy Woodland community only has one dominant tree species - the RRG.
- Root system has two parts
 - Surface rainfall
 - 2. Tap ground water.
- Groundwater Phreatophytes

When the surface is dry the movement of ground water via the xylem in the roots to the surface (hydraulic redistribution) means that water leaks out of the surface roots into the surrounding soil.

This provides benefits to neighbouring plants.

Flowers

- Nectar river red gum nectar is <u>not</u> attractive to birds
 - Honeyeaters are scarce and all feed mainly insects or plant and insect exudates
 - Important to insects particularly
 - Colleoptera (beetles),
 - Diptera (flies),
 - Lepidoptera (moths),
 - Neuroptera (lacewings)
 - Formicidae (ants)
 - Hemiptera (true bugs)



Pollen

Important to:

Insects E.g. the short-tongued plasterer bees such as Euryglossa

Lorikeets

Sugar glider





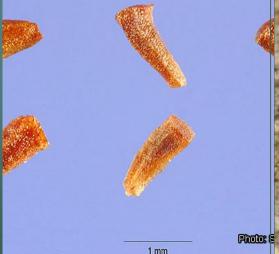


RRG Seeds - Ants e.g. Monomorium rothstenei

- ▶ 15 seeds / fruit
- ▶ 700 000 viable seeds / kg
- Seeds are wind and water dispersed
- Seed drop in spring









Fruit and seeds of RRG and grasses etc

Parrots



▶ Terrestrial pigeons and doves





Leaves - Sap

- Sap is low in protein content and high in sugar
- ▶ Insects
 - ► Sap Suckers Hemiptera e.g. Psyllids, leaf hoppers, scale insects and coreid bugs



Leaves

► Insects



- ▶ Leaf Chewers e.g.
 - gum leaf skeletoniser moth
 - Christmas beetles
 - sawflies
 - stick insects





Leaves

- ▶ Mammals
 - ► Common ringtail possum
 - 50% of diet is mature leaves

- ► Common brushtail possum
 - + mainly ground storey herbs and grasses, fruits

and some insects





Trunks, bark and branches

- ▶ Birds
 - ▶ Brown treecreeper
 - ► Crested shriketit





Trunks, bark and branches

- ▶ Birds
 - ▶ Brown treecreeper
 - ► Crested shriketit

- ▶ Mammals
 - Squirrel gliders access sugars etc in phloem by cutting excisions in trunks



Timber and leaves on the ground

- ▶ Brown treecreeper
 - Rely on ground mosaics that contain large areas of leaf litter with bare ground and fallen timber for suitable foraging
- ▶ Diamond firetail
 - Rely on ground mosaics that contain large areas of leaf litter with bare ground and native grass cover for suitable foraging



Understorey

▶ Birds that feed on the ground make up a higher proportion of the community than in other forest types e.g willie wagtail, Australian magpie, Australian magpie lark, superb fairywren, scarlet robin





Insects and Birds

- ▶ Hawkers
 - ▶ Willie wagtail
 - ▶ Grey fantail
 - White-plumed honeyeater
 - Brown-headed honeyeater



Insects and Birds

- Leaf and twig gleaners
 - ▶ Weebill

Spotted pardalote (winter)

- ▶ Striated pardalote
- ▶ Striated thornbill



Insects and Birds

- Sweeping
 - ▶ Dusky Woodswallow
 - ▶ Tree Martin

▶ Welcome Swallow



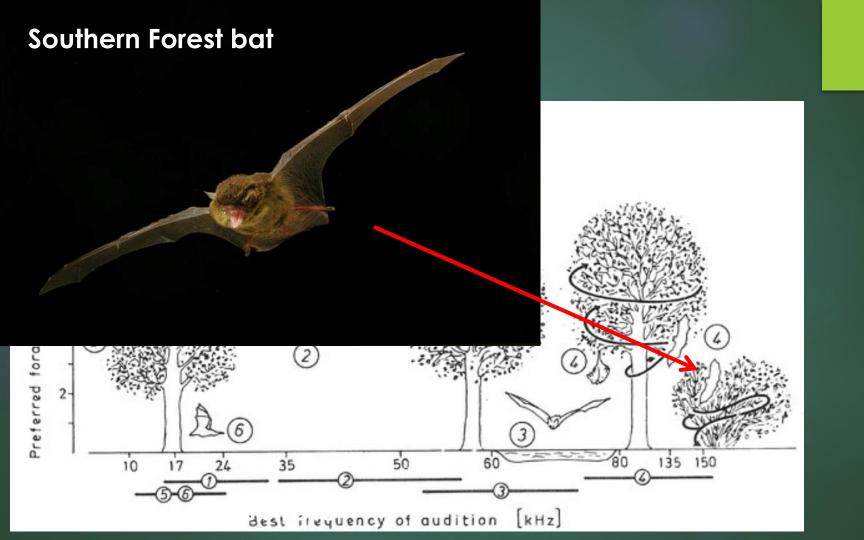
► Grey Shrike Thrush

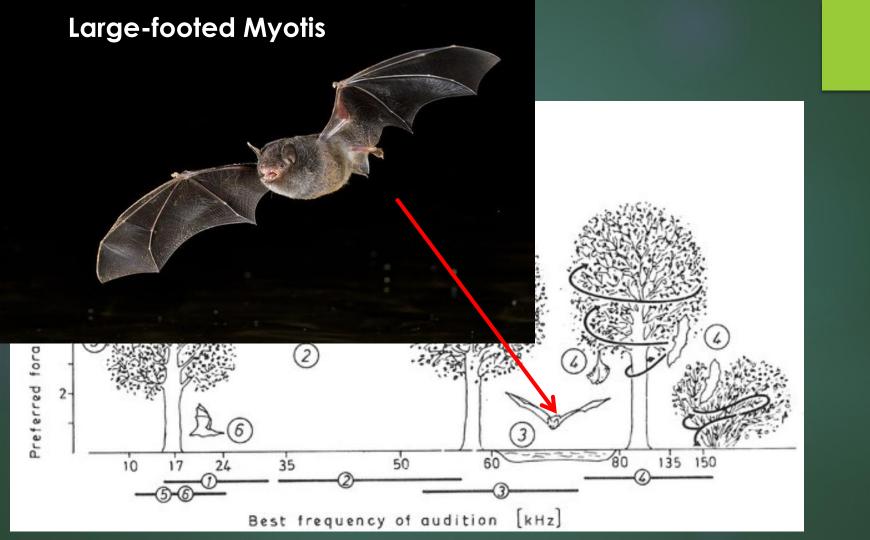




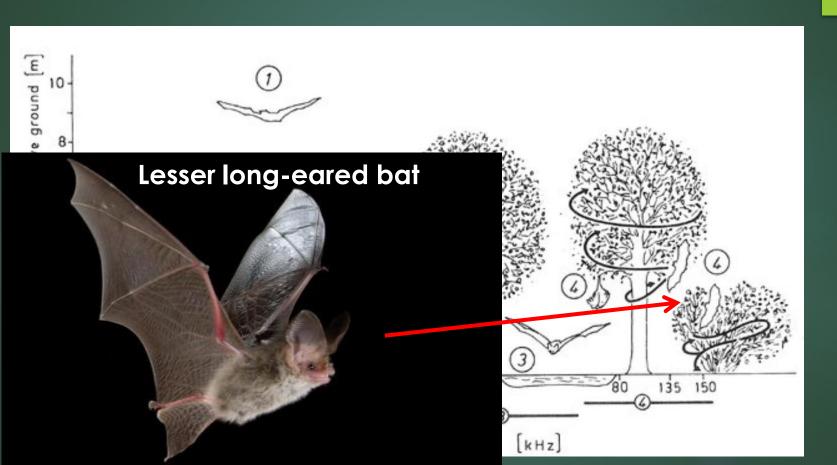


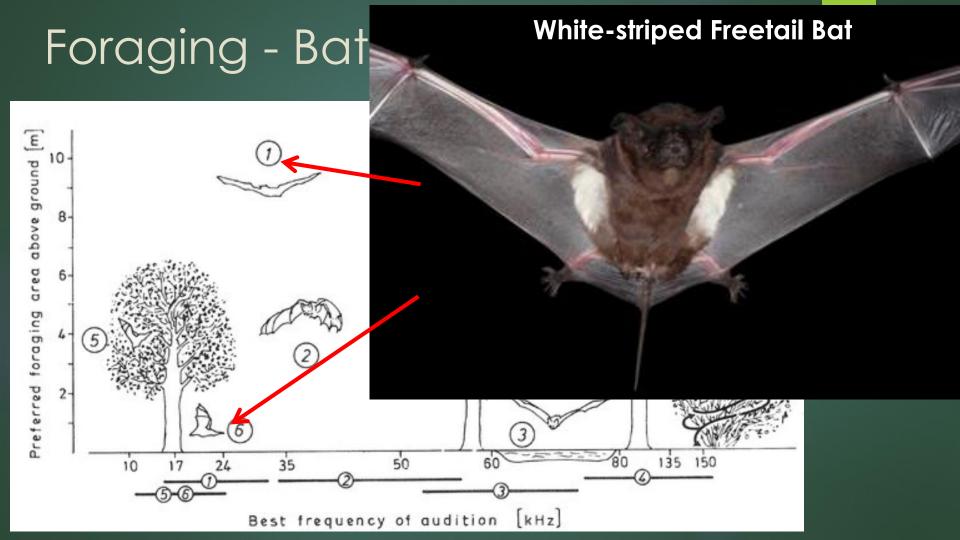
Gould's Wattled Bat Foraging - Bats area above ground [m] Preferred foraging 135 50 35 Best frequency of audition



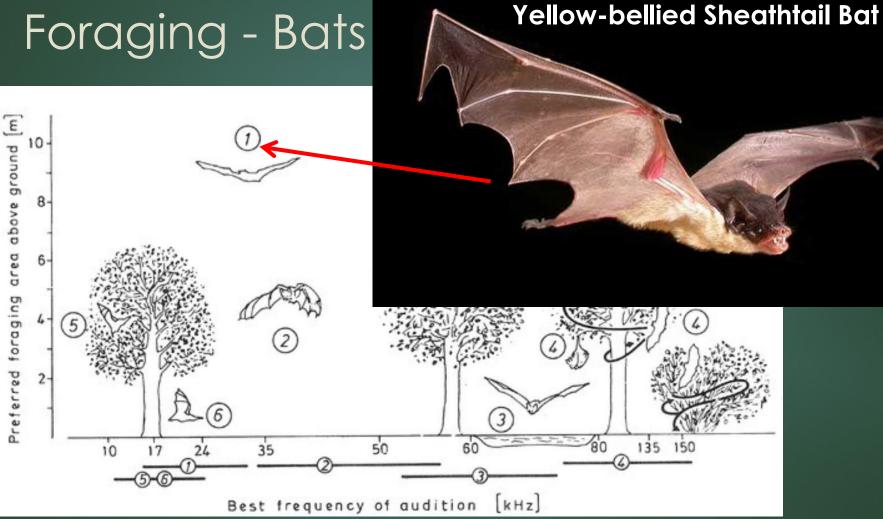


Foraging - Bats





Foraging - Bats





Mistletoe

▶ Mistletoe bird





Reptiles

- ► Eastern tree skink
- ► Tussock skink
- ► Eastern three lined skink
- ▶ Tree dragon
- Marbled gecko
- ▶ Eastern bearded dragon
- ► Eastern large striped skink
- Garden skink
- ► Southern grass skink
- Stumpy-tailed lizard
- ▶ Tree goanna
- ▶ Little whip snake
- Eastern brown snake



