

Eucalypts of North East Melbourne

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Why?

- General Information
- Basics of their identification
- In-depth look at eucalypts of North East Melbourne



Fossil record



Fossil *Eucalyptus*. Leaf, detail of leaf showing oil glands (dots), bud with horizontal scar, flower, grouping of fruits. Photographs taken by M. A. Gandolfo (images 1,2, 5) and E. J. Hermsen.

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What's in a name?



Adventure Bay - Tasmania



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Aussie, aussie, aussie...?

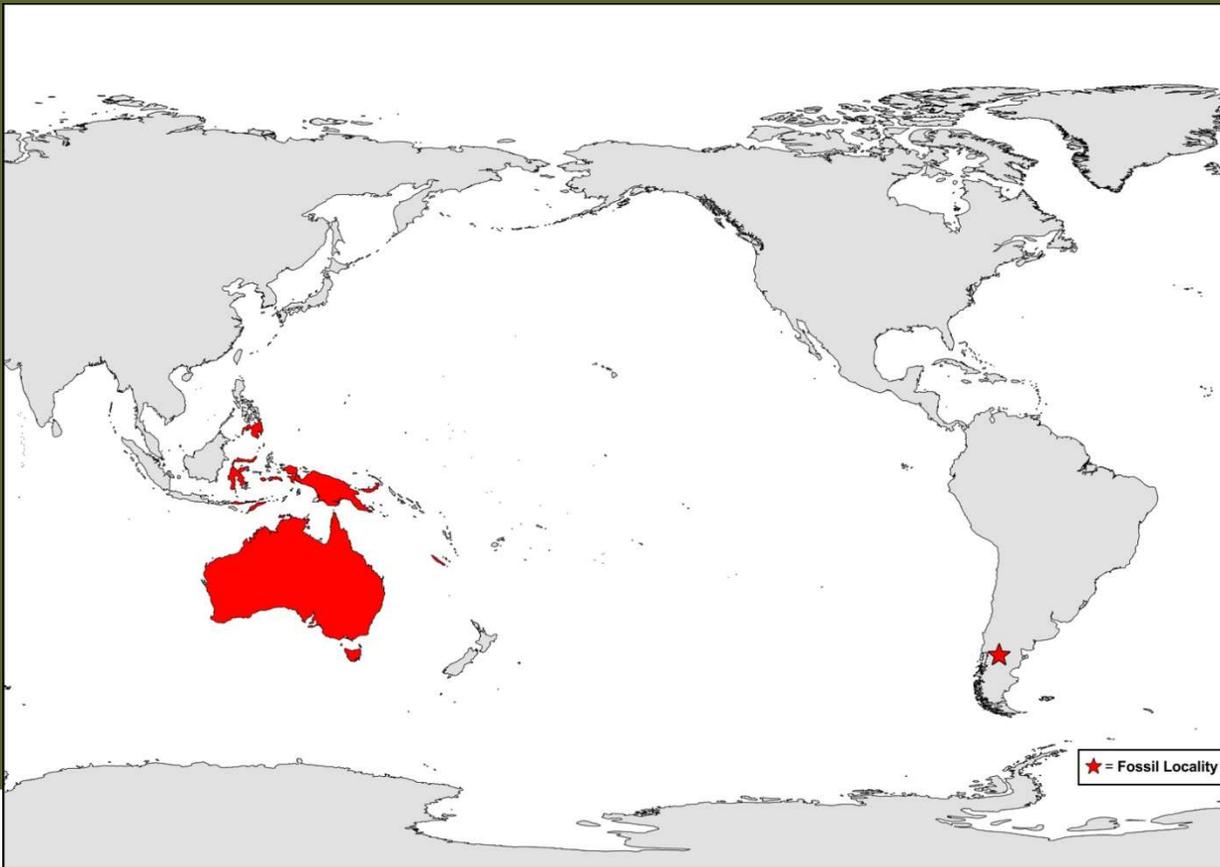


Image: Cornell University

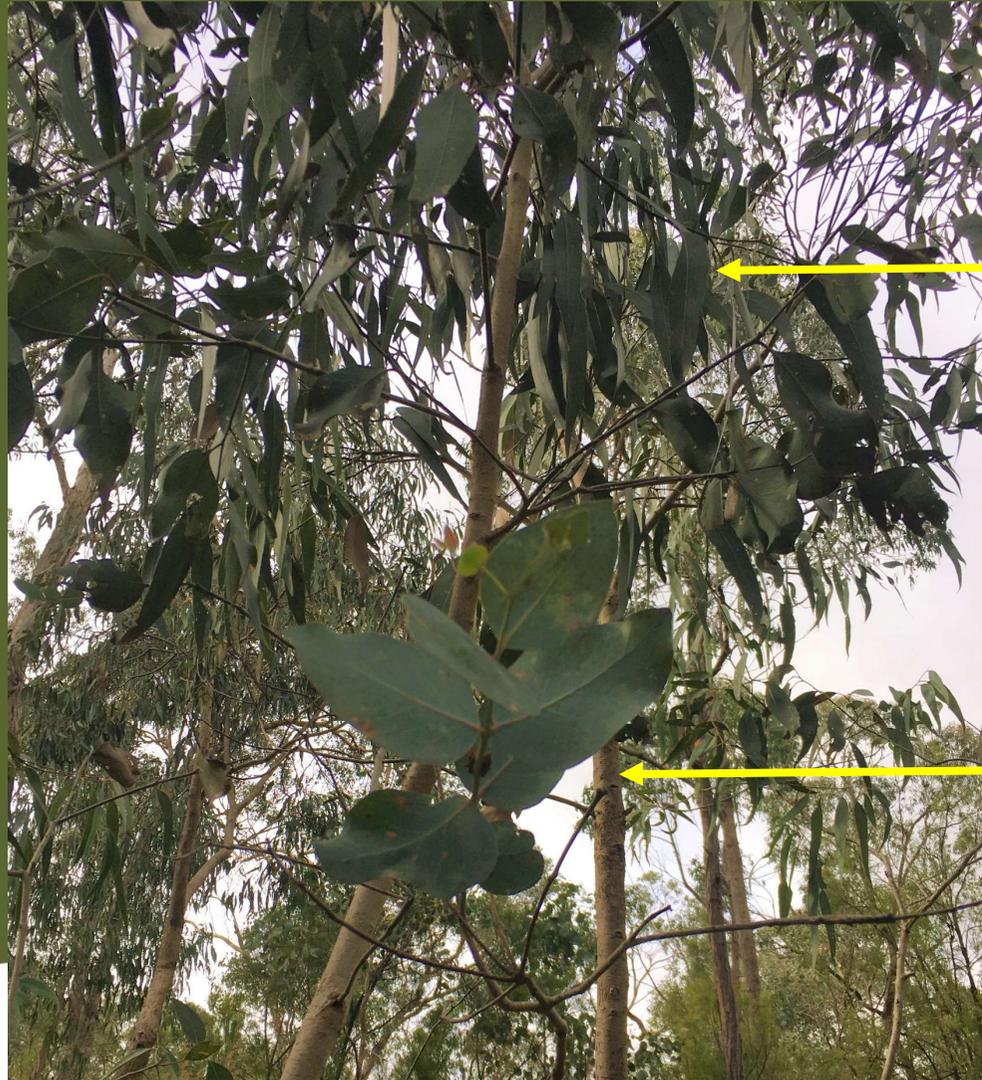
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Adaptations



Leaf adaptations



Ah, nuts!!

Fruits



Nuts



Eucalyptus



Eucalypt identification

Key to Eucalypts in Nillumbik

1 Bark blackish, impregnated with kino (ironbark)
1 Bark smooth or fibrous

2 Buds and branchlets glaucous
2 Buds and branchlets non-glaucous

3 Buds and fruits sessile (without a stalk)
3 Buds and fruits pedicellate (with a stalk)

4 Tall forest trees with paired inflorescences
4 Trees of various heights and habitats without paired inflorescences

5 Inflorescences 3-flowered, rarely 7 flowered
5 Inflorescences 7 or more-flowered

6 Valves enclosed within the fruit
6 Valves raised above the rim

7 Juvenile leaves orbicular, glaucous; fruits 4-5 mm wide
7 Juvenile leaves lanceolate, green; fruits 6-8 mm wide

8 Bark smooth over most of the trunk
8 Bark fibrous, rough or apparently so, to at least the mid-trunk

9 Buds diamond-shaped; fruits obconical
9 Buds and fruits not of the above combination

10 Fruits cylindrical to truncate ovoid, with valves rim level or below
10 Fruits cupular to hemispherical with valves prominently raised

E. tricarpa
2

3
4

E. cephalocarpa
E. polyanthemos

E. regnans
5

6
8

E. leucoxylon
7

E. rubida
E. viminalis

9
12

E. ovata
10

E. cypellocarpa
11

11 Juvenile leaves ovate or broadly lanceolate; operculum long, conical
11 Juvenile leaves lanceolate; operculum beaked

12 Inflorescences 11- or more flowered, sometimes less
12 Inflorescences 7-11- flowered

13 Ovate, glaucous juvenile leaves; operculum hemispherical or conical
13 Narrow, elliptic then lanceolate juvenile leaves; operculum conical

14 Buds diamond-shaped; fruits obconical
14 Buds and fruits not of the above combination

15 Bark fissured, box-like, extending to the major branches; adult leaves to 10cm long
15 Bark in large plates and slabs, sub-fibrous, extending only to upper trunk then smooth; adult leaves 9-17cm long

16 Fruits globoid/hemispherical; valves raised
16 Fruits cupular; valves rim level or below

17 Peduncles flattened, strap-like
17 Peduncles round or angular

18 Bark box-like; adult leaves dull green, grey or bluish
18 Bark stringy; adult leaves dark green, glossy

E. blakelyi
E. camaldulensis

13
14

E. dives
E. radiata

15
16

E. yarraensis
E. ovata

E. macrorhyncha
17

E. goniocalyx
18

E. melliodora
E. obliqua

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Identification characteristics

Take note of:

- the habitat in which it is growing (near water/gully, on a ridge), its size, and shape.
- the colour and texture of the bark, fruits, and leaves;
- the shape and size of the buds, leaves or fruits, how many fruits and buds they have, and how they are arranged;
- any other features peculiar to the tree, such as the shape and growth of juvenile leaves



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Eucalypts of North East Melbourne



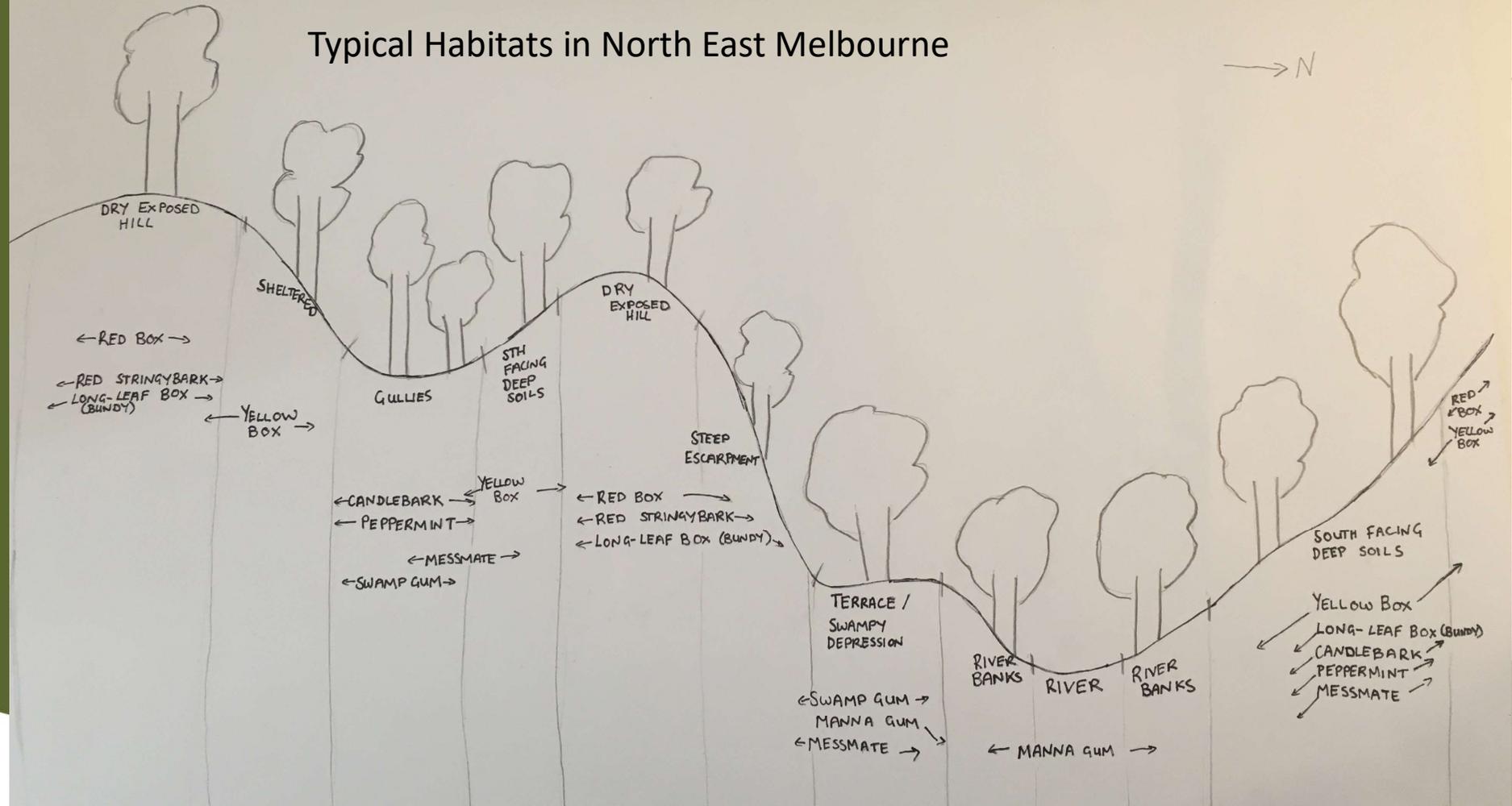
Habitat

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Typical Habitats in North East Melbourne

→ N

















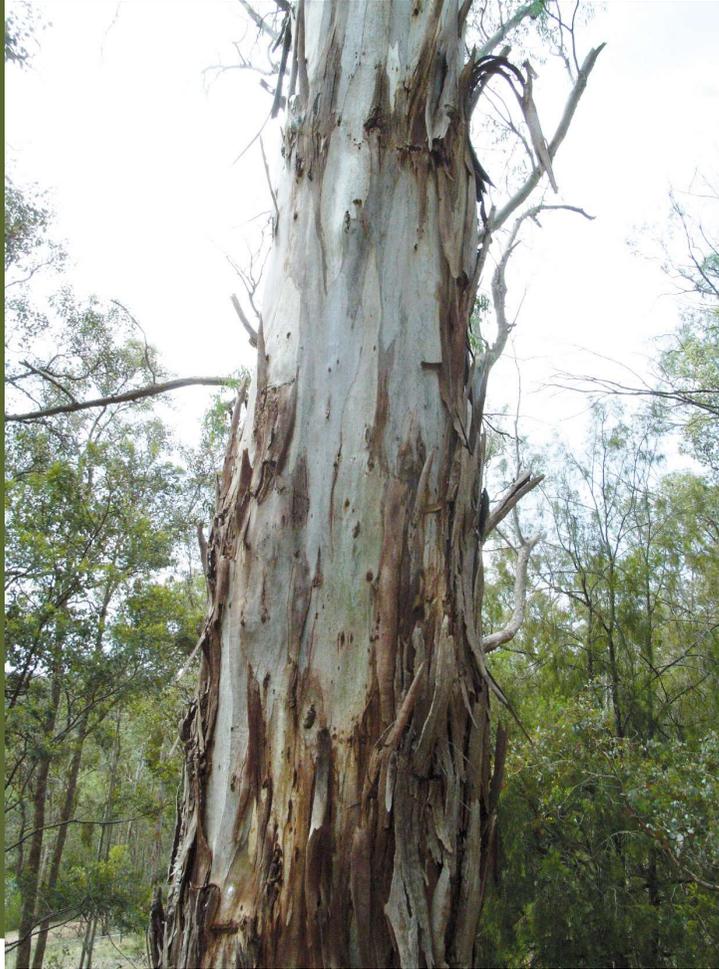


Bark

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Gum



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Stringybark



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Peppermint



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Ironbark



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Box



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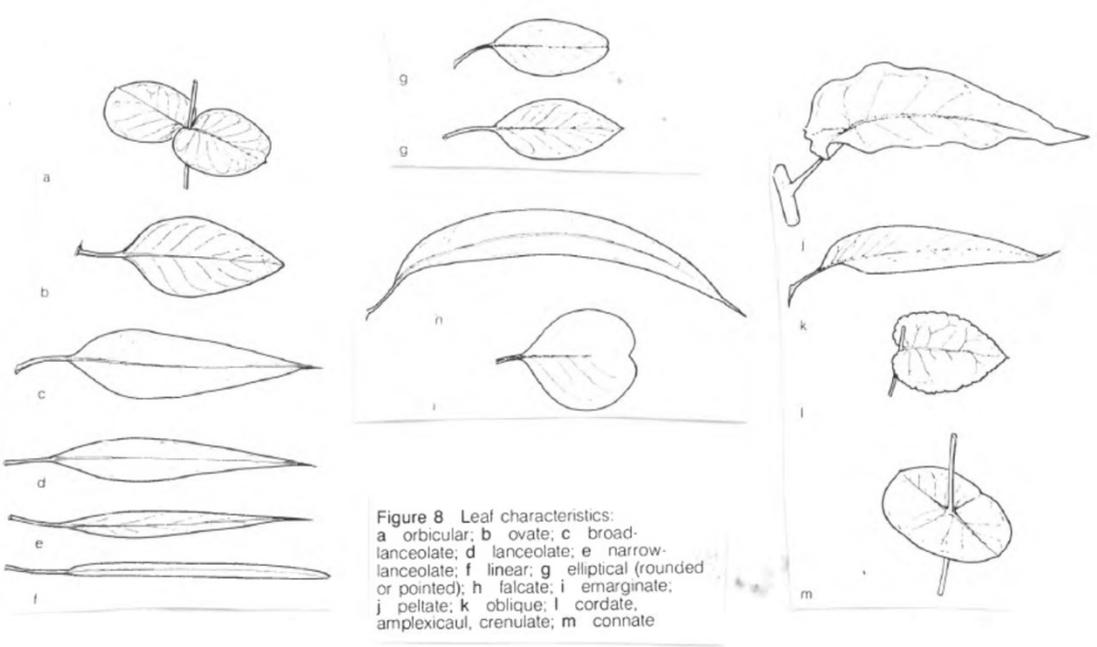
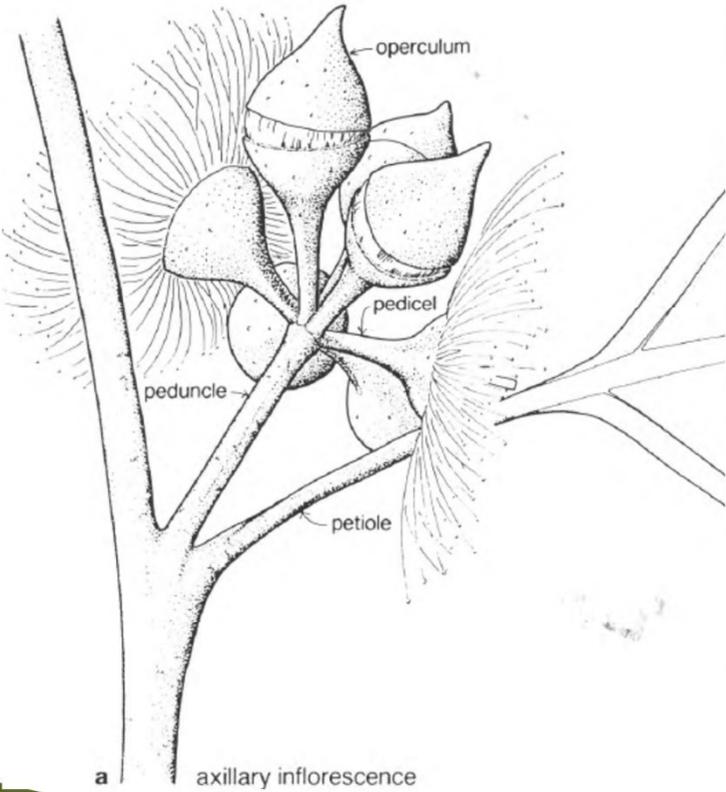

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Buds, leaves and fruits

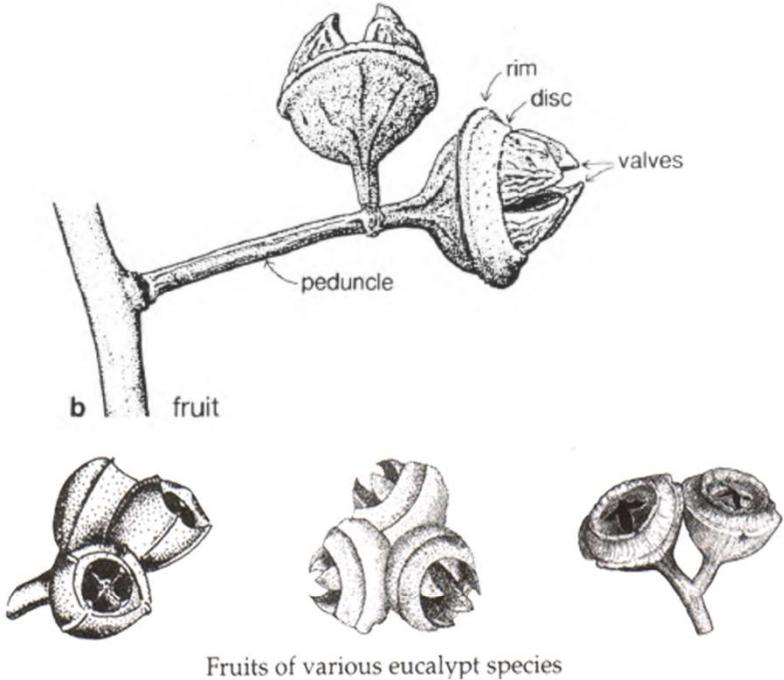
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Eucalyptus buds and leaf shapes



Eucalyptus fruit parts and valves

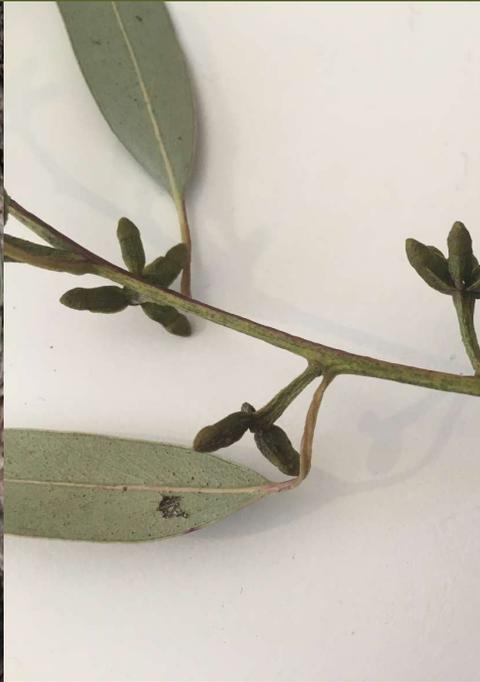


Figures 16a to 16c Valves: a fruit with sunken valves; b fruit with valves to rim level; c fruit with exserted valves

Messmate



Bundy



Red Stringybark



Red Box



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Yellow Box



Swamp Gum



Manna Gum



Candlebark



Resources

Books:

Flora of Melbourne (Marilyn Bull)

Native Trees and Shrubs of South-Eastern Australia (Leon Costermans)

Live Local Plant Local (Nillumbik Shire Council publication)

Field Guide to Eucalypts (Ian Brooker & David Kleinig)

Eucalypts of Victoria and Tasmania (Dean Nicolle)

Locations:

National Herbarium of Victoria

Nillumbik Shire Council – Environment Team

Department of Environment, Land, Water and Planning

Websites:

Atlas of Living Australia

Flora of Victoria

Australian National Herbarium

Victorian Biodiversity Atlas

APPS:

iNaturalist

VBA Go

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Thank you!

Contact: environment@nillumbik.vic.gov.au

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