

VEGETATION OF SPECTACLE ISLAND, HAWKESBURY RIVER, NEW SOUTH WALES

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ABSTRACT

Webb, Joan B. (Kuring-gai College of Advanced Education, Lindfield, New South Wales, Australia 2070) 1981. Vegetation of Spectacle Island, Hawkesbury River, New South Wales. Cunninghamia 1(1): 115-119. The vegetation of Spectacle Island is mapped and the species present are recorded.

INTRODUCTION

Spectacle Island (Lat. 33° 32' S, Long. 151° 12' E) is a small Hawkesbury Sandstone island in the Hawkesbury River, near its junction with Mooney Mooney Creek. It is about 1 200 m long and 600 m at its widest point, up to 123 m high, and has generally similar vegetation to that of the nearby Brisbane Water National Park (Benson & Fallding, this issue). It is a Nature Reserve administered by the New South Wales National Parks and Wildlife Service.

VEGETATION

The vegetation varies with aspect and topography, and may be mapped using nine distinct units (Figure 1). The species recorded are listed in Table 1.

1. North-facing, gentle slope, dominated by *Angophora floribunda* and grasses.
2. Mudflats, with the mangrove, *Avicennia marina* var. *australisica*.
3. Typical gully flora, land rising sharply from the river; *Angophora floribunda*, *Elaeocarpus reticulatus*, *Notelaea longifolia*, *Solanum* sp. and *Casuarina glauca*.
4. Steeply rising land dominated by *Eucalyptus gummifera*, *Angophora costata*, *Casuarina littoralis*, a number of *Lomandra* species and grasses. In area (e) a number of exotics are present, not abundant, but consistent with other evidence of European occupation such as concrete slabs and a constructed stone wall. Similar exotics (mainly succulents) are found near the eastern beachfront where two fishermen's huts are still *in situ*.
5. Southern facing aspect, steep slope leading to vertical scarp; area dominated by *Acacia elata*, *Xanthorrhoea* sp., *Pteridium esculentum*, *Casuarina glauca* on lower slopes and *Casuarina torulosa* and *Casuarina littoralis* higher up. The vegetation here is denser than on other parts of the island.
6. Relatively flat area of land, clay soil, only area of *Eucalyptus punctata* on the island.
7. Mahoganies, *E. umbra* subsp. *umbra* and *E. resinifera*, on the top and edges of the cliffs.
8. Flat top of the island, open woodland with only *Imperata cylindrica*. No understorey of *Xanthorrhoea* or other shrubs conspicuous on the rest of the island. Trees here are *Eucalyptus gummifera* and *Angophora costata*. Scattered shrubs of *Banksia marginata*, *Xylomelum pyriforme*, *Gompholobium latifolium*, *Kunzea ambigua* and *Xanthorrhoea* sp. occur around the margins of this highest area.
9. Gully flora close under the cliffs.

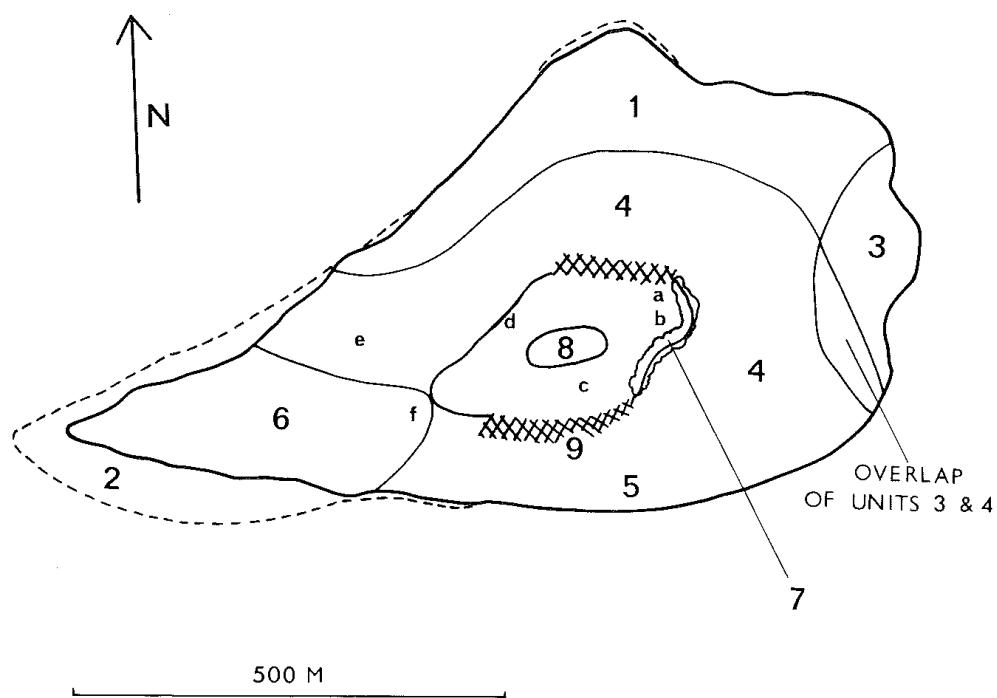


Figure 1. Sketch map of Spectacle Island showing vegetation units.

TABLE 1

Plant species recorded on Spectacle Island

Total number of recorded species = 128.

R = rare, i.e. not sighted more than once or twice.

a, b, c, d, etc. = positions on Figure 1.

Numbers 1-9 = vegetation units on Figure 1.

* = exotic species.

PTERIDOPHYTES

Adiantaceae

Adiantum aethiopicum

A. hispidulum

Pellaea falcata

Aspleniaceae

Asplenium flabellifolium

Blechnaceae

Blechnum ambiguum

B. cartilagineum

Cyatheaceae

Cyathea sp.

Davalliaceae

Davallia pyxidata

Dennstaedtiaceae

Histiopteris incisa

Pteridium esculentum

Gleicheniaceae

Sticherus sp.

Lindsaeaceae

Lindsaea microphylla

Osmundaceae

Todea barbara

Psilotaceae

Psilotum nudum

ANGIOSPERMS**DICOTYLEDONS**

Acanthaceae

Brunoniella australis
Pseuderanthemum variable

Apiaceae

Actinotus helianthi
Platysace lanceolata (R-5)
P. linearifolia (R-f)
Xanthosia pilosa

Araliaceae

Astrotricha floccosa

Asteraceae

**Ageratina adenophora*
Brachycome prob. angustifolia
Helichrysum diosmifolium (R-5)

Bignoniaceae

Pandorea pandorana (R-5)

Campanulaceae

Wahlenbergia gracilis

Cassythaceae

Cassytha sp.

Casuarinaceae

Casuarina glauca
C. littoralis
C. torulosa

Cunoniaceae

Ceratopetalum apetalum
C. gummiiferum

Droseraceae

Drosera auriculata

Dilleniaceae

Hibbertia obtusifolia

Elaeocarpaceae

Elaeocarpus reticulatus

Epacridaceae

Dracophyllum secundum
Epacris longiflora (R-f)
E. pulchella (R-f)

Euphorbiaceae

Poranthera microphylla

Fabaceae

Dillwynia floribunda (R-f)
Glycine clandestina
Gompholobium latifolium (b)
Hardenbergia violacea
Hovea linearis
Kennedia rubicunda
Mirbelia rubrifolia
Pultenaea flexilis
P. retusa

Goodeniaceae

Goodenia heterophylla
G. rotundifolia
Scaevola ramosissima (R-9)

Hypericaceae

Hypericum japonicum

Lamiaceae

Plectranthus graveolens
P. parviflorus (R-5)

Lobeliaceae

Pratia purpurascens

Loganiaceae

Logania albiflora (R-9)

Meliaceae

Synoum glandulosum (R-9)

Menispermaceae		
<i>Sarcopetalum harveyanum</i>		
Mimosaceae		
<i>Acacia elata</i>		
<i>A. longifolia</i> var. <i>longifolia</i>	(R-9)	
<i>A. maidenii</i>	(R-d)	
<i>A. oxycedrus</i>	(R-f)	
<i>A. suaveolens</i>		
Moraceae		
<i>Ficus rubiginosa</i>		
Myrtaceae		
<i>Acmena smithii</i>		
<i>Angophora costata</i>		
<i>A. floribunda</i>		
<i>Backhousia myrtifolia</i>	(R-9)	
<i>Callistemon linearifolius</i>	(R-f)	
<i>Eucalyptus gummifera</i>		
<i>E. piperita</i> subsp. <i>piperita</i>		
<i>E. punctata</i>		
<i>E. resinifera</i>		
<i>E. umbra</i> subsp. <i>umbra</i>		
<i>Kunzea ambigua</i>		
<i>Leptospermum attenuatum</i>		
<i>Tristania laurina</i>	(5,9)	
Oleaceae		
<i>Notelaea longifolia</i>		
Pittosporaceae		
<i>Bursaria spinosa</i>		
Proteaceae		
<i>Banksia integrifolia</i>		
<i>B. marginata</i>		
<i>B. serrata</i>		
<i>B. spinulosa</i>	(R)	
<i>Grevillea sericea</i>	(R-1 bush at a)	
<i>Hakea dactyloides</i>	(R-e)	
<i>Persoonia levigata</i>		
<i>P. linearis</i>		
<i>Xylomelum pyriforme</i>	(3 trees at c)	
Rhamnaceae		
<i>Pomaderris multiflora</i>	(R-f)	
Rubiaceae		
<i>Morinda jasminoides</i>	(R-9)	
Rutaceae		
<i>Correa reflexa</i>		
<i>Phebalium</i> sp.		
Santalaceae		
<i>Exocarpos cupressiformis</i>		
Solanaceae		
<i>Solanum</i> sp.		
Sterculiaceae		
<i>Lasiopetalum ferrugineum</i> var. <i>ferrugineum</i>		
<i>L. macrophyllum</i>		
Styliadiaceae		
<i>Styliodium</i> sp.		
Verbenaceae		
<i>Avicennia marina</i>		
<i>Clerodendrum tomentosum</i>	(R-9)	
*iLantana camara	(4 plants on northern side)	
Violaceae		
<i>Hybanthus monopetalus</i>		
Vitaceae		
<i>Cayratia clematidea</i>		
<i>Cissus hypoglauca</i>	(R-9)	

MONOCOTYLEDONS

Cyperaceae

- Baumea juncea*
Caustis flexuosa
Gahnia sp.
Lepidosperma laterale
Schoenus imberbis

Iridaceae

- Patersonia glabrata*

Liliaceae

- Caesia vittata*
Dianella revoluta
Thysanotus tuberosus

Orchidaceae

- Caladenia carneae*
Dendrobium linguiforme
Pterostylis nutans
Theelymitra ixoides

Poaceae

- Aristida vagans*
Cymbopogon refractus
Dichelachne micrantha
Eragrostis philippica
Imperata cylindrica
Sporobolus virginicus
**Stenotaphrum secundatum*
Stipa sp.

Xanthorrhoeaceae

- Lomandra confertifolia* subsp. *rubiginosa*
L. glauca
L. gracilis
L. longifolia subsp. *longifolia*
L. obliqua
Xanthorrhoea sp.