



Commonwealth of Australia

**Inclusion of ecological communities in the list of threatened ecological communities under
section 181 of the *Environment Protection and Biodiversity Conservation Act 1999***

I, PETER ROBERT GARRETT, Minister for the Environment, Heritage and the Arts, pursuant to section 184(1)(a) of the *Environment Protection and Biodiversity Conservation Act 1999*, hereby amend the list referred to in section 181 of that Act by:

including in the list in the **critically endangered** category

Littoral Rainforest and Coastal Vine Thickets of Eastern Australia
as described in the Schedule to this instrument.

Dated this.....12th.....day of.....September.....2008

PETER ROBERT GARRETT
Minister for the Environment, Heritage and the Arts

s181/EPBC/2008/02

SCHEDULE

Littoral Rainforest and Coastal Vine Thickets of Eastern Australia

The ecological community represents a complex of rainforest and coastal vine thickets, including some that are deciduous, on the east coast of Australia. Typically, the ecological community occurs within two kilometres of the coast, including offshore islands, or adjacent to a large salt water body, such as an estuary and, thus, is influenced by the sea. It is naturally distributed as a series of disjunct and localised stands occurring on a range of landforms derived from coastal processes that can include dunes, headlands, seacliffs, offshore islands or other places influenced by the sea. As a result, the ecological community is not associated with a particular soil type and can occur on a variety of geological substrata.

The ecological community occurs from Princess Charlotte Bay, Cape York Peninsula to the Gippsland Lakes in Victoria as well as on offshore islands on the east coast. The latitudinal range where the ecological community occurs encompasses warm temperate, sub-tropical and tropical climate zones.

The ecological community is defined by habitat expressed in terms of structure, floristic composition and ecology in response to coastal processes. Whilst the ecological community's canopy species are well adapted to coastal exposure (e.g. strong and persistent salt-laden winds and storm events), the canopy protects less tolerant plants in the understorey. The canopy height varies with the degree of exposure and can range from <1 to 25 m tall. Due to extreme exposure to salt laden winds, the canopy often demonstrates equal height. Highly exposed patches will display the effect of windshear in the canopy. In more sheltered sites, for example, around estuaries, wind shear may not be evident in the canopy.

The diversity of plants (particularly canopy species) generally declines in a north to south direction, i.e. with increasing latitude. However, species richness of adjacent patches may vary considerably within one latitudinal zone.

The key diagnostic characteristics of the ecological community are:

- The ecological community occurs in the following IBRA bioregions: Cape York Peninsula, Wet Tropics, Central Mackay Coast, South Eastern Queensland, NSW North Coast, Sydney Basin and South East Corner.
- Patches of the ecological community occur within two kilometres of the east coast, including offshore islands, or adjacent to a large body of salt water, such as an estuary, where they are subject to maritime influence.
- The structure of the ecological community typically is a closed canopy of trees but can be patchy when in exposed situations and as a result of storm events. As a result, the canopy forms a mosaic due to canopy regeneration. Usually, several vegetation layers are present. However, where there is extreme exposure to salt laden winds, these distinct layers demonstrate equal height. Moreover, wind sheared canopy can be

present on the frontal section leading to closed secondary canopies. Emergents may be present, for example, species from the genera *Araucaria* (northern bioregions only), *Banksia* or *Eucalyptus*. The ground stratum of the vegetation typically is very sparse.

- The ecological community contains a range of plant life forms including trees, shrubs, vines, herbs, ferns and epiphytes. To the north, most plant species diversity is in the tree and shrub (i.e. canopy) layers rather than in the lower layer. The converse generally occurs from the Sydney Basin Bioregion southwards. Feather palms, fan palms and large leaved epiphytes are generally rare. Ground ferns and epiphytes are lower in diversity in littoral rainforests compared to most other rainforest types.
- Plants with drought tolerant and succulent features are generally more common in littoral rainforest than in hinterland rainforest types. Canopy stem sizes also tend to be smaller compared to that in hinterland rainforest. Trunks rarely host mosses though lichens are usually common.
- Whilst species can be regionally predictable, there may be considerable variation in the composition of individual stands of the ecological community within any given bioregion. Annexure A provides a list of plant species for each relevant bioregion.

The Littoral Rainforest and Coastal Vine Thickets of Eastern Australia ecological community comprises those patches that meet the key diagnostic characteristics (above) and the condition thresholds below.

- Small patches can be resilient and viable, but the minimum size of a patch needs to be 0.1 ha; AND
- The cover of transformer weed species (as identified in Annexure A) is 70% or less. Transformer weeds are highly invasive plants with the potential to seriously alter the structure and function of the ecological community. This threshold recognises the relative resilience and recoverability of the ecological community to invasion by weed species; AND
- The patch must have:
 - at least 25% of the native plant species diversity characteristic of this ecological community in that bioregion (Annexure A); OR
 - at least 30% canopy cover of one rainforest canopy (either tree or shrub) species (Annexure A, excluding *Banksia* and *Eucalyptus* species that may be part of the ecological community).

Note that:

- Where gaps in the canopy exist, they should be in the process of regenerating with the usual suite of rainforest gap species for the site (Annexure A). Where weed invasion is significant, natural regeneration of native gap species may be limited.
- As species diversity diminishes from northern to southern latitudes, it is important to take into account the natural diversity of a patch in a particular bioregion when examining specific sites.

FLORA SPECIES OF LITTORAL RAINFOREST AND COASTAL VINE THICKETS OF EASTERN AUSTRALIA BY BIOREGION

Note 1: This ecological community is defined by habitat expressed in terms of structure, flora composition and ecology in response to coastal processes. Whilst species can be regionally predictable, there may be considerable variation in the composition of individual stands of the ecological community within any given bioregion. The diagnostic characteristics presented in the listing advice should be considered when determining the presence or absence of this ecological community.

Note 2: This flora list is not exhaustive. Additional rainforest species encountered when surveying a site need to be included when determining the condition thresholds. Species in this list may not always be exclusive to this ecological community.

CAPE YORK PENINSULA

FLORA SPECIES		
Trees	Trees (continued)	Shrubs (continued)
<i>Acacia crassicaarpa</i>	<i>Mallotus nesophilus</i>	<i>Leucopogon ruscifolius</i>
<i>Acacia polystachya</i>	<i>Manilkara kauki</i>	<i>Leucopogon yorkensis</i>
<i>Acacia solenota</i>	<i>Mimusops elengi</i>	<i>Lithomyrtus obtusa</i>
<i>Aglaiia elaeagnoidea</i>	<i>Neofabricia myrtifolia</i>	<i>Memecylon pauciflorum</i> var. <i>pauciflorum</i>
<i>Aidia racemosa</i>	<i>Niemeyera antiloga</i>	<i>Micromelum minutum</i>
<i>Alectryon reticulatus</i>	<i>Pisonia grandis</i>	<i>Pemphis acidula</i>
<i>Araucaria cunninghamii</i>	<i>Polyalthia nitidissima</i>	<i>Suriana maritima</i>
<i>Arytera bifoliolata</i>	<i>Pouteria sericea</i>	<i>Tabernaemontana orientalis</i>
<i>Asteromyrtus angustifolia</i>	<i>Premna dallachyana</i>	<i>Triflorensia australis</i>
<i>Atractocarpus sessilis</i>	<i>Premna serratifolia</i>	<i>Vitex acuminata</i>
<i>Beilschmiedia obtusifolia</i>	<i>Rhodamnia fordii</i>	
<i>Bossiaea arenicola</i>	<i>Stenocarpus verticis</i>	Forbs
<i>Buchanania arborescens</i>	<i>Sterculia quadrifida</i>	
<i>Canarium australianum</i>	<i>Strychnos lucida</i>	<i>Xenostegia tridentata</i>
<i>Celtis philippensis</i> var. <i>philippensis</i>	<i>Syzygium bamagense</i>	
<i>Choriceras tricorne</i>	<i>Syzygium banksii</i>	Lilies
<i>Cochlospermum gillivraei</i>	<i>Syzygium suborbiculare</i>	<i>Dianella pavopennacea</i>
<i>Cryptocarya cunninghamii</i>	<i>Terminalia muelleri</i>	
<i>Cupaniopsis anacardioides</i>	<i>Vavaea amicorum</i>	Vines
<i>Dinosperma erythroccum</i>	<i>Vitex acuminata</i>	<i>Abrus precatorius</i>
<i>Diospyros compacta</i>	<i>Xanthostemon arenarius</i>	<i>Alyxia spicata</i>
<i>Diospyros maritima</i>		<i>Asparagus racemosus</i>
<i>Drypetes deplanchei</i>	Shrubs	<i>Capparis sepia</i>
<i>Elaeodendron melanocarpum</i>	<i>Antirhea ovatifolia</i>	<i>Cassytha filiformis</i>
<i>Emmenosperma cunninghamii</i>	<i>Capparis lucida</i>	<i>Flagellaria indica</i>
<i>Endiandra glauca</i>	<i>Carissa laxiflora</i>	
<i>Erythrina variegata</i>	<i>Croton arnhemicus</i>	Orchid (epiphytic and ground)
<i>Eugenia reinwardtiana</i>	<i>Eugenia reinwardtiana</i>	
<i>Exocarpos latifolius</i>	<i>Glycosmis trifoliata</i>	<i>Dendrobium discolor</i>
<i>Ficus opposita</i>	<i>Ixora timorensis</i>	
<i>Ganophyllum falcatum</i>		
<i>Garuga floribunda</i> var. <i>floribunda</i>		
<i>Guettarda speciosa</i>		
<i>Gyrocarpus americanus</i>		
<i>Halfordia kendack</i>		
<i>Litsea glutinosa</i>		
TRANSFORMER WEEDS		
<i>Annona glabra</i>		
<i>Bidens pilosa</i> var. <i>pilosa</i>		
<i>Cryptostegia grandiflora</i>		
<i>Hyptis suaveolens</i>		
<i>Lantana camara</i>		
<i>Senna siamea</i>		

WET TROPICS

FLORA SPECIES		
Trees	Trees (continued)	Shrubs
<i>Acacia crassicaarpa</i>	<i>Flindersia bourjotiana</i>	<i>Aglaia elaeagnoidea</i>
<i>Acacia oraria</i>	<i>Ganophyllum falcatum</i>	<i>Aglaia meridionalis</i>
<i>Acacia polystachya</i>	<i>Garuga floribunda</i> var. <i>floribunda</i>	<i>Alchornea rugosa</i>
<i>Acmena hemilampra</i> subsp. <i>hemilampra</i>	<i>Glochidion harveyanum</i> var. <i>harveyanum</i>	<i>Allophylus cobbe</i>
<i>Acronychia acronychioides</i>	<i>Gmelina dalrympleana</i>	<i>Atractocarpus sessilis</i>
<i>Aidia cowleyi</i>	<i>Gomphandra australiana</i>	<i>Capparis lucida</i>
<i>Alectryon connatus</i>	<i>Grevillea baileyana</i>	<i>Clausena brevistyla</i>
<i>Aleurites moluccana</i>	<i>Guettarda speciosa</i>	<i>Codiaeum variegatum</i> var. <i>moluccanum</i>
<i>Alphitonia excelsa</i>	<i>Guioa acutifolia</i>	<i>Cordyline cannifolia</i>
<i>Anthocarapa nitidula</i>	<i>Heritiera littoralis</i>	<i>Cyclophyllum multiflorum</i>
<i>Antidesma erostre</i>	<i>Hibiscus tiliaceus</i>	<i>Dichapetalum papuanum</i>
<i>Antirhea tenuiflora</i>	<i>Intsia bijuga</i>	<i>Eugenia reinwardtiana</i>
<i>Archidendron grandiflorum</i>	<i>Ixora timorensis</i>	<i>Gardenia actinocarpa</i>
<i>Archontophoenix alexandrae</i>	<i>Lepiderema sericognis</i>	<i>Glycosmis trifoliata</i>
<i>Arenga australasica</i>	<i>Lepidozamia hopei</i>	<i>Harpullia rhyticarpa</i>
<i>Argyrodendron polyandrum</i>	<i>Licuala ramsayi</i>	<i>Ixora biflora</i>
<i>Arytera divaricata</i>	<i>Litsea bindoniana</i>	<i>Linospadix minor</i>
<i>Backhousia hughesii</i>	<i>Litsea breviumbellata</i>	<i>Lithomyrtus obtusa</i>
<i>Beilschmiedia obtusifolia</i>	<i>Litsea fawcettiana</i>	<i>Mackinlaya confusa</i>
<i>Blepharocarya involucrigera</i>	<i>Litsea glutinosa</i>	<i>Maytenus fasciculiflora</i>
<i>Brackenridgea australiana</i>	<i>Melaleuca leucadendra</i>	<i>Micromelum minutum</i>
<i>Bucea javanica</i>	<i>Melia azedarach</i>	<i>Morinda citrifolia</i>
<i>Buchanania arborescens</i>	<i>Miliusa brahei</i>	<i>Opilia amentacea</i>
<i>Calophyllum inophyllum</i>	<i>Millettia pinnata</i>	<i>Pilidiostigma papuanum</i>
<i>Calophyllum sil</i>	<i>Mimusops elengi</i>	<i>Pisonia aculeata</i>
<i>Canarium australianum</i>	<i>Mischocarpus exangulatus</i>	<i>Pittosporum rubiginosum</i>
<i>Canarium vitiense</i>	<i>Myristica insipida</i>	<i>Psychotria dallachiana</i>
<i>Carallia brachiata</i>	<i>Myrsine porosa</i>	<i>Rhodomyrtus trineura</i> subsp. <i>trineura</i>
<i>Castanospermum australe</i>	<i>Normanbya normanbyi</i>	<i>Salacia chinensis</i>
<i>Celtis paniculata</i>	<i>Ormosia ormondii</i>	<i>Tabernaemontana orientalis</i>
<i>Cerbera floribunda</i>	<i>Palaquium galactoxylum</i>	<i>Tabernaemontana pandacaqui</i>
<i>Chionanthus ramiflorus</i>	<i>Paraserianthes toona</i>	<i>Vitex trifolia</i> var. <i>trifolia</i>
<i>Cleistanthus apodus</i>	<i>Planchonia careya</i>	<i>Ximenia americana</i>
<i>Cryptocarya cunninghamii</i>	<i>Pleiogynium timorense</i>	
<i>Cryptocarya exfoliata</i>	<i>Pleomele angustifolia</i>	Herbs
<i>Cryptocarya hypospodia</i>	<i>Podocarpus grayae</i>	<i>Achyranthes aspera</i>
<i>Cryptocarya triplinervis</i> var. <i>riparia</i>	<i>Polyalthia nitidissima</i>	<i>Amorphophallus galbra</i>
<i>Cryptocarya vulgaris</i>	<i>Polyscias australiana</i>	<i>Cyrtococcum oxyphyllum</i>
<i>Cupaniopsis anacardioides</i>	<i>Polyscias elegans</i>	<i>Dianella bambusifolia</i>
<i>Darlingia darlingiana</i>	<i>Pouteria chartacea</i>	<i>Hypolytrum nemorum</i>
<i>Dillenia alata</i>	<i>Pouteria obovata</i>	<i>Oplismenus hirtellus</i> subsp. <i>imbecillis</i>
<i>Diospyros compacta</i>	<i>Pouteria sericea</i>	<i>Pseuderanthemum variabile</i>
<i>Diospyros cupulosa</i>	<i>Pouteria xerocarpa</i>	
<i>Diospyros hebecarpa</i>	<i>Psydrax banksii</i>	Vines
<i>Diospyros maritima</i>	<i>Psydrax tropica</i>	<i>Abrus precatorius</i>
<i>Drypetes deplanchei</i>	<i>Ptychosperma elegans</i>	<i>Alyxia spicata</i>
<i>Dysoxylum latifolium</i>	<i>Randia fitzalanii</i>	<i>Calamus australis</i>
<i>Dysoxylum oppositifolium</i>	<i>Rhodamnia spongiosa</i>	<i>Calamus caryotoides</i>
<i>Dysoxylum setosum</i>	<i>Rhodomyrtus macrocarpa</i>	<i>Cansjera leptostachya</i>
<i>Elaeocarpus bancroftii</i>	<i>Sarcopteryx reticulata</i>	<i>Capparis sepiaria</i>
<i>Elaeocarpus michaelii</i>	<i>Schefflera actinophylla</i>	<i>Cassytha filiformis</i>
<i>Elaeodendron melanocarpum</i>	<i>Scolopia braunii</i>	<i>Cissus hastata</i>
<i>Elattostachys microcarpa</i>	<i>Semecarpus australiensis</i>	<i>Colubrina asiatica</i> var. <i>asiatica</i>
<i>Emmenosperma cunninghamii</i>	<i>Syzygium angophoroides</i>	<i>Connarus conchocarpus</i> subsp. <i>conchocarpus</i>
<i>Endiandra glauca</i>	<i>Syzygium banksii</i>	<i>Derris</i> sp. <i>Daintree</i> (D.E.Boyland+ 469)
<i>Endiandra hypotephra</i>	<i>Syzygium forte</i> subsp. <i>forte</i>	<i>Flagellaria indica</i>
<i>Endospermum myrmecophilum</i>	<i>Syzygium kuranda</i>	<i>Gynochthodes sessilis</i>
<i>Euroschinus falcatus</i>	<i>Syzygium monospermum</i>	<i>Hibbertia scandens</i>
<i>Exocarpos latifolius</i>	<i>Terminalia arenicola</i>	<i>Hippocratea barbata</i>
<i>Ficus destruens</i>	<i>Terminalia muelleri</i>	
<i>Ficus obliqua</i> var. <i>obliqua</i>	<i>Thespesia populnea</i>	

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<i>Ficus opposita</i> <i>Ficus racemosa</i> <i>Ficus variegata</i> var. <i>variegata</i> <i>Ficus virens</i>	<i>Vavaea amicorum</i> <i>Wilkiea pubescens</i> <i>Wrightia laevis</i> <i>Xylopia macleayae</i>	<i>Hoya australis</i> subsp. <i>tenuipes</i> <i>Hugonia jenkinsii</i> <i>Hypserpa decumbens</i> <i>Hypserpa laurina</i>
Vines (continued) <i>Jasminum elongatum</i> <i>Mallotus repandus</i> <i>Melodorum uhrii</i> <i>Mucuna gigantea</i> <i>Neosepicaea jucunda</i> <i>Pachygone ovata</i> <i>Parsonsia velutina</i> <i>Pycnarrhena novoguineensis</i> <i>Rhamnella vitiensis</i> <i>Rourea brachyandra</i> <i>Salacia chinensis</i> <i>Salacia disepala</i> <i>Sarcopetalum harveyanum</i> <i>Secamone elliptica</i> <i>Smilax australis</i> <i>Smilax blumei</i> <i>Smilax calophylla</i> <i>Stephania japonica</i> <i>Tetrastigma nitens</i> <i>Tetrastigma thorsborneorum</i> <i>Uvaria concava</i> <i>Vandasina retusa</i>	Epiphytes <i>Bulbophyllum baileyi</i> <i>Cymbidium madidum</i> <i>Dendrobium discolor</i> var. <i>discolor</i> <i>Epipremnum pinnatum</i> <i>Ophioglossum pendulum</i> <i>Platycerium hillii</i> <i>Pyrrosia longifolia</i> <i>Vittaria ensiformis</i>	
	Ferns (terrestrial) <i>Drynaria sparsisora</i> <i>Schizaea dichotoma</i>	
	Parasites <i>Amyema glabra</i> <i>Amyema villiflora</i> subsp. <i>tomentilla</i> <i>Cassytha filiformis</i>	
TRANSFORMER WEEDS		
<i>Agave</i> sp. (sisal hemp) <i>Cenchrus echinatus</i> <i>Hyptis suaveolens</i> <i>Lantana camara</i> <i>Opuntia</i> sp. (prickly pear) <i>Megathyrsus maximus</i> <i>Melinis minutiflora</i> <i>Passiflora foetida</i> <i>Passiflora suberosa</i> <i>Sphagneticola trilobata</i> <i>Tridax procumbens</i>		

CENTRAL MACKAY COAST/CENTRAL QUEENSLAND

FLORA SPECIES		
Trees <i>Acacia flavescens</i> <i>Acronychia laevis</i> <i>Aglaia elaeagnoidea</i> <i>Aidia racemosa</i> <i>Alectryon connatus</i> <i>Alphitonia excelsa</i> <i>Araucaria cunninghamii</i> <i>Arytera divaricata</i> <i>Banksia integrifolia</i> <i>Celtis paniculata</i> <i>Chionanthus ramiflorus</i> <i>Clerodendrum floribundum</i> <i>Corymbia tessellaris</i> <i>Cryptocarya triplinervis</i> <i>Cupaniopsis anacardioides</i> <i>Diospyros geminata</i> <i>Drypetes deplanchei</i> <i>Elaeodendron melanocarpum</i> <i>Euroschinus falcatus</i> <i>Exocarpos latifolius</i> <i>Ficus congesta</i> <i>Ficus opposita</i> <i>Ficus rubiginosa</i> <i>Ganophyllum falcatum</i> <i>Hibiscus tiliaceus</i> <i>Jagera pseudorhus</i> <i>Litsea glutinosa</i> <i>Livistona decora</i> <i>Mallotus philippensis</i> <i>Mimusops elengi</i> <i>Olea paniculata</i> <i>Pandanus tectorius</i> <i>Paraserianthes toona</i> <i>Pittosporum ferrugineum</i>	Trees (continued) <i>Planchonia careya</i> <i>Pleiogynium timorens</i> <i>Polyalthia nitidissima</i> <i>Pouteria sericea</i> <i>Psydrax odorata</i> <i>Schefflera actinophylla</i> <i>Scolopia braunii</i> <i>Sterculia quadrifida</i> <i>Xylosma ovatum</i> Shrubs <i>Alyxia ruscifolia</i> <i>Capparis lucida</i> <i>Clerodendrum inerme</i> <i>Cyclophyllum coprosmoides</i> <i>Eugenia reinwardtiana</i> <i>Lithomyrtus obtusa</i> <i>Micromelum minutum</i> <i>Psychotria polyostemma</i> <i>Tabernaemontana orientalis</i> Vines <i>Alyxia spicata</i> <i>Cissus opaca</i> <i>Eustrephus latifolius</i> <i>Hoya australis</i> <i>Jasminum didymum</i> <i>Jasminum simplicifolium</i> subsp. <i>australiense</i> <i>Sarcostemma viminalis</i> subsp. <i>brunonianum</i> <i>Smilax australis</i> <i>Stephania japonica</i> <i>Trophis scandens</i> subsp. <i>scandens</i>	Herbs <i>Dianella caerulea</i> <i>Pseuderanthemum variabile</i> Sedges <i>Gahnia aspera</i> <i>Cyperus eglobosus</i> <i>Cyperus enervis</i> Grasses <i>Imperata cylindrica</i> <i>Oplismenus</i> spp. Orchids (epiphytic and ground) <i>Dendrobium discolor</i> Ferns <i>Drynaria sparsisora</i> <i>Microsorium punctatum</i>
TRANSFORMER WEEDS		
<i>Cryptostegia grandiflora</i> <i>Lantana camara</i> <i>Megathyrsus maximus</i> (var. <i>maximus</i> and var. <i>pubiglumis</i>) <i>Passiflora suberosa</i>		

NORTHERN SOUTH EASTERN QUEENSLAND

FLORA SPECIES		
Trees <i>Acacia disparrima</i> (<i>A. aulacocarpa</i>) <i>Acronychia imperforata</i> <i>Acronychia laevis</i> <i>Aidia racemosa</i> <i>Alectryon connatus</i> <i>Alectryon tomentosus</i> <i>Alphitonia excelsa</i> <i>Arytera divaricata</i> <i>Bridelia leichhardtii</i> <i>Capparis arborea</i> <i>Celtis paniculata</i> <i>Clerodendrum floribundum</i> <i>Corymbia tessellaris</i> <i>Cryptocarya triplinervis</i> <i>Cupaniopsis anacardioides</i> <i>Cupaniopsis shirleyana</i> <i>Diospyros fasciculosa</i> <i>Diospyros geminata</i> <i>Drypetes deplanchei</i> <i>Elaeodendron melanocarpum</i> <i>Euroschinus falcatus</i> <i>Exocarpos latifolius</i> <i>Ficus rubiginosa</i> <i>Ficus opposita</i> <i>Fitzalania</i> sp. Gregory River (J.Randall 624) <i>Geijera salicifolia</i> <i>Glochidion lobocarpum</i> <i>Harpullia hillii</i>	Trees (continued) <i>Ixora queenslandica</i> <i>Jagera pseudorhus</i> <i>Livistona decora</i> <i>Mallotus discolor</i> <i>Maytenus disperma</i> <i>Petalostigma pubescens</i> <i>Pittosporum ferrugineum</i> <i>Pleiogynium timorense</i> <i>Polyalthia nitidissima</i> <i>Polyscias elegans</i> <i>Pouteria sericea</i> <i>Psychotria loniceroides</i> <i>Psydrax odorata</i> <i>Scolopia braunii</i> <i>Sterculia quadrifida</i> <i>Xylosma ovatum</i> Shrubs <i>Alyxia ruscifolia</i> <i>Breynia oblongifolia</i> <i>Carissa ovata</i> <i>Cyclophyllum coprosmoides</i> <i>Micromelum minutum</i> <i>Pavetta australiensis</i> <i>Pittosporum revolutum</i> <i>Psychotria loniceroides</i> <i>Myrsine variabilis</i> <i>Turraea pubescens</i>	Vines <i>Cissus opaca</i> <i>Eustrephus latifolius</i> <i>Flagellaria indica</i> <i>Hoya australis</i> <i>Jasminum didymum</i> <i>Jasminum simplicifolium</i> subsp. <i>australiense</i> <i>Geitonoplesium cymosum</i> <i>Melodorum leichhardtii</i> <i>Pandorea pandorana</i> <i>Pleogyne australis</i> <i>Sarcostemma viminae</i> subsp. <i>brunonianum</i> <i>Trophis scandens</i> subsp. <i>scandens</i> <i>Smilax australis</i> <i>Stephania japonica</i> var. <i>discolor</i> <i>Secamone elliptica</i> Forbs <i>Pseuderanthemum variabile</i> Fern <i>Microsorium punctatum</i> Grasses <i>Ancistrachne uncinulata</i> <i>Imperata cylindrica</i> Sedges <i>Cyperus eglobosus</i>
TRANSFORMER WEEDS		
<i>Lantana camara</i> <i>Megathyrsus maximus</i> (var. <i>maximus</i> and var. <i>pubiglumis</i>) <i>Passiflora suberosa</i> <i>Psidium guajava</i> <i>Schinus terebinthifolius</i> <i>Cryptostegia grandiflora</i>		

SOUTHERN SOUTH EASTERN QUEENSLAND AND NSW NORTH COAST

FLORA SPECIES		
Trees	Trees (continued)	Shrubs (continued)
<i>Acacia disparrima</i>	<i>Jagera pseudorhu*</i>	<i>Rhysotoechia bifoliolata</i>
<i>Acacia maidenii*</i>	<i>Litsea australis*</i>	<i>Senna acclinis</i>
<i>Acacia melanoxylon*</i>	<i>Litsea reticulata</i>	<i>Sterculia quadrifida</i>
<i>Acmena hemilampra</i> subsp. <i>hemilampra</i>	<i>Livistona australis</i>	<i>Symplocos stawellii</i>
<i>Acmena smithii</i>	<i>Lophostemon confertus</i>	<i>Synoum glandulosum</i>
<i>Acronychia imperforata</i>	<i>Macaranga tanarius*</i>	<i>Wikstroemia indica</i>
<i>Acronychia littoralis</i>	<i>Mallotus discolor</i>	
<i>Acronychia oblongifolia</i>	<i>Mallotus philippensis</i>	
<i>Acronychia wilcoxiana</i>	<i>Melia azedarach*</i>	Epiphytes
<i>Alectryon coriaceus*</i>	<i>Melicope vitiiflora*</i>	<i>Asplenium australasicum</i>
<i>Alphitonia excelsa</i>	<i>Mischocarpus pyriformis*</i>	<i>Davallia solida</i> var. <i>pyxidata</i>
<i>Aphananthe philippinensis*</i>	<i>Notelaea longifolia*</i>	<i>Platycerium bifurcatum</i>
<i>Archidendron grandiflorum</i>	<i>Olea paniculata</i>	<i>Pyrrosia confluens</i>
<i>Archidendron hendersonii</i>	<i>Pararchidendron pruinoseum</i> var. <i>pruinoseum*</i>	
<i>Archontophoenix cunninghamiana</i>	<i>Pilidistigma rhytispermum*</i>	
<i>Arytera divaricata</i>	<i>Pittosporum undulatum*</i>	Vines and scramblers
<i>Baloghia inophylla</i>	<i>Podocarpus elatus</i>	<i>Austrosteenisia blackii</i>
<i>Banksia integrifolia</i> subsp. <i>integrifolia*</i>	<i>Polyalthia nitidissima*</i>	<i>Cayratia clematidea</i>
<i>Bridelia exaltata</i>	<i>Polyscias elegans*</i>	<i>Cissus antarctica</i>
<i>Callistemon salignus*</i>	<i>Pouteria australis</i>	<i>Cissus hypoglaucis</i>
<i>Callitris columellaris</i>	<i>Pouteria chartacea*</i>	<i>Cissus sterculiifolia</i>
<i>Celtis paniculata</i>	<i>Pouteria myrsinoides*</i>	<i>Cynanchum elegans</i>
<i>Claoxylon australe*</i>	<i>Pouteria queenslandica</i>	<i>Dioscorea transversa</i>
<i>Clerodendrum floribundum*</i>	<i>Psydrax lamprophylla*</i>	<i>Embelia australiana</i>
<i>Clerodendrum tomentosum*</i>	<i>Psydrax odorata*</i>	<i>Flagellaria indica</i>
<i>Commersonia bartramia*</i>	<i>Rhodamnia acuminata</i>	<i>Geitonoplesium cymosum</i>
<i>Commersonia fraseri*</i>	<i>Rhodamnia argentea*</i>	<i>Hibbertia scandens</i>
<i>Cryptocarya foetida</i>	<i>Rhodomyrtus psidioides*</i>	<i>Hoya australis</i>
<i>Cryptocarya triplinervis</i>	<i>Sarcomelicope simplicifolia*</i>	<i>Maclura cochinchinensis</i>
<i>Cupaniopsis anacardioides*</i>	<i>Scolopia braunii*</i>	<i>Marsdenia rostrata</i>
<i>Dendrocnide photinophylla</i>	<i>Syzygium australe</i>	<i>Morinda jasminoides</i>
<i>Diospyros australis*</i>	<i>Syzygium francisii</i>	<i>Pandorea pandorana</i>
<i>Diospyros fasciculosa</i>	<i>Syzygium hodgkinsoniae</i>	<i>Parsonsia straminea</i>
<i>Diospyros geminata</i>	<i>Syzygium luehmannii</i>	<i>Ripogonum album</i>
<i>Diospyros pentamera</i>	<i>Syzygium moorei</i>	<i>Sarcopetalum harveyanum</i>
<i>Drypetes deplanchei</i> subsp. <i>deplanchei</i>	<i>Syzygium oleosum*</i>	<i>Smilax australis</i>
<i>Duboisia myoporoides*</i>	<i>Toeckia tenax*</i>	<i>Smilax glyciphylla</i>
<i>Dysoxylum fraserianum</i>	<i>Trema tomentosa</i> var. <i>aspera*</i>	<i>Stephania japonica</i>
<i>Elaeocarpus obovatus</i>	<i>Trochocarpa laurina*</i>	
<i>Elaeocarpus reticulatus</i>	<i>Wilkia hugeliana*</i>	
<i>Elattostachys nervosa*</i>		
<i>Endiandra discolor*</i>	Shrubs	Herbs
<i>Endiandra sieberi*</i>	<i>Breynia oblongifolia</i>	<i>Alocasia brisbanensis</i>
<i>Ficus coronata*</i>	<i>Capparis arborea</i>	<i>Aneilema acuminatum</i>
<i>Ficus fraseri*</i>	<i>Cordyline congesta</i>	<i>Calochlaena dubia</i>
<i>Ficus macrophylla</i>	<i>Cordyline rubra</i>	<i>Commelina diffusa</i>
<i>Ficus obliqua</i>	<i>Cordyline stricta</i>	<i>Dianella caerulea</i>
<i>Ficus rubiginosa</i>	<i>Cyclophyllum coprosmoides</i>	<i>Doodia aspera</i>
<i>Ficus superba</i> var. <i>henneana</i>	<i>Elaeodendron australe</i>	<i>Gahnia aspera</i>
<i>Ficus watkinsiana</i>	<i>Eupomatia laurina</i>	<i>Gymnostachys anceps</i>
<i>Flindersia bennettiana</i>	<i>Euroschinus falcatus</i>	<i>Hypolepis muelleri</i>
<i>Flindersia schottiana</i>	<i>Exocarpus latifolius</i>	<i>Lomandra longifolia</i>
<i>Glochidion ferdinandi</i> var. <i>ferdinandi*</i>	<i>Hibiscus heterophyllus</i>	<i>Monococcus echinophorus</i>
<i>Glochidion sumatranum*</i>	<i>Homalanthus populifolius</i>	<i>Oplismenus imbecillis</i>
<i>Guioa acutifolia</i>	<i>Myrsine variabilis</i>	<i>Ottocloa gracillima</i>
<i>Guioa semiglaucis*</i>	<i>Neolitsea dealbata</i>	<i>Ottocloa nodosa</i>
<i>Halfordia kendack*</i>	<i>Pittosporum multiflorum</i>	<i>Pellaea falcata</i> var. <i>falcata</i>
<i>Harpullia hillii*</i>	<i>Pittosporum revolutum</i>	<i>Pteridium esculentum</i>
<i>Harpullia pendula*</i>	<i>Psychotria loniceroides</i>	<i>Scleria sphacelata</i>
<i>Hodgkinsonia ovatiflora</i>		

Note 1: Species with * are trees and shrubs

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SOUTHERN SOUTH EASTERN QUEENSLAND AND NSW NORTH COAST (continued)

TRANSFORMER WEEDS
<i>Anredera cordifolia</i> <i>Asparagus aethiopicus</i> <i>Asparagus africanus</i> <i>Asparagus plumosus</i> <i>Brachiaria mutica</i> <i>Cardiospermum grandiflorum</i> <i>Delairea odorata</i> <i>Desmodium uncinatum</i> <i>Chrysanthemoides monilifera</i> subsp. <i>rotundata</i> <i>Gloriosa superba</i> <i>Ipomoea cairica</i> <i>Lantana camara</i> <i>Macfadyena unguis-cati</i> <i>Megathyrsus maximus</i> var. <i>maximus</i> <i>Ochna serrulata</i> <i>Schefflera actinophylla</i> <i>Schinus terebinthifolius</i> <i>Senna pendula</i> var. <i>glabrata</i>

SYDNEY BASIN

FLORA SPECIES	
Trees <i>Acmena smithii</i> <i>Acronychia oblongifolia</i> <i>Banksia integrifolia</i> <i>Claoxylon australe</i> <i>Cupaniopsis anacardioides</i> <i>Diospyros pentamera</i> <i>Elaeodendron australe</i> <i>Eucalyptus botryoides</i> <i>Eupomatia laurina</i> <i>Ficus obliqua</i> <i>Glochidion ferdinandi</i> <i>Guioa semiglauc</i> <i>Livistona australis</i> <i>Pittosporum undulatum</i> <i>Podocarpus elatus</i> <i>Myrsine howittiana</i> <i>Sarcomelicope simplicifolia</i> <i>Synoum glandulosum</i>	Shrubs <i>Breynia oblongifolia</i> <i>Notelaea longifolia</i> <i>Pittosporum revolutum</i> <i>Syzygium paniculatum</i> Vines/Creepers <i>Cissus antarctica</i> <i>Cissus hypoglauca</i> <i>Eustrephus latifolius</i> <i>Geitonoplesium cymosum</i> <i>Hibbertia scandens</i> <i>Marsdenia rostrata</i> <i>Parsonsia straminea</i> <i>Smilax australis</i> <i>Stephania japonica</i> Ferns <i>Pellaea falcate</i>
TRANSFORMER WEEDS	
<i>Asparagus aethiopicus</i> <i>Chrysanthemoides monilifera</i> <i>Delairea odorata</i> <i>Ehrharta erecta</i> <i>Lantana camara</i> <i>Senna pendula</i> <i>Tradescantia albiflora</i> (just ground layer, not into canopy, but still impacts on the ecological community significantly if infestation is thick)	

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SOUTHEAST CORNER

SPECIES		
Trees <i>Acacia caeruleascens</i> <i>Acacia maidenii</i> <i>Acacia mearnsii</i> <i>Acmena smithii</i> <i>Acronychia oblongifolia</i> <i>Alectryon subcinereus</i> <i>Banksia integrifolia</i> subsp. <i>integrifolia</i> <i>Claoxylon australe</i> <i>Commersonia fraseri</i> <i>Commersonia rossii</i> <i>Elaeocarpus reticulatus</i> <i>Elaeodendron australe</i> var. <i>australe</i> <i>Eucalyptus botryoides</i> <i>Exocarpos cupressiformis</i> <i>Ficus coronata</i> <i>Ficus rubiginosa</i> <i>Glochidion ferdinandi</i> var. <i>ferdinandi</i> <i>Livistona australis</i> <i>Monotoca elliptica</i> s.s. <i>Myoporum acuminatum</i> <i>Myoporum insulare</i> <i>Myrsine howittiana</i> <i>Notelaea longifolia</i> forma <i>longifolia</i> <i>Pittosporum undulatum</i> <i>Pomaderris aspera</i> Shrubs <i>Acacia longifolia</i> subsp. <i>sophorae</i> <i>Alyxia buxifolia</i> <i>Breynia oblongifolia</i> <i>Coprosma quadrifida</i> <i>Eupomatia laurina</i> <i>Goodenia ovata</i> <i>Helichrysum elatum</i> <i>Leucopogon parviflorus</i> <i>Meliccytus dentatus</i> s.l. <i>Notelaea venosa</i> <i>Olearia viscosa</i> <i>Omalanthus populifolius</i> <i>Pittosporum revolutum</i> <i>Pomaderris oraria</i> subsp. <i>calcicola</i> <i>Solanum aviculare</i> <i>Synoum glandulosum</i> subsp. <i>glandulosum</i> <i>Trema tomentosa</i> var. <i>viridis</i> <i>Westringia fruticosa</i>	Vines <i>Aphanopetalum resinum</i> <i>Cassytha phaeolasia</i> <i>Celastrus australis</i> <i>Cissus antarctica</i> <i>Cissus hypoglauca</i> <i>Clematis glycinoides</i> var. <i>glycinoides</i> <i>Eustrephus latifolius</i> <i>Geitonoplesium cymosum</i> <i>Glycine clandestina</i> <i>Hibbertia dentata</i> <i>Hibbertia scandens</i> <i>Kennedia rubicunda</i> <i>Marsdenia rostrata</i> <i>Morinda jasminoides</i> <i>Muehlenbeckia adpressa</i> <i>Pandorea pandorana</i> <i>Parsonsia straminea</i> <i>Rhagodia candolleana</i> subsp. <i>candolleana</i> <i>Sarcopetalum harveyanum</i> <i>Smilax australis</i> <i>Stephania japonica</i> subsp. <i>discolor</i> <i>Tetragonia implexicoma</i> <i>Tylophora barbata</i> Forbs <i>Apium prostratum</i> subsp. <i>prostratum</i> <i>Commelina cyanea</i> <i>Desmodium gunnii</i> <i>Dichondra repens</i> <i>Euchiton gymnocephalus</i> <i>Galium propinquum</i> <i>Geranium homeanum</i> <i>Hydrocotyle hirta</i> <i>Lagenophora stipitata</i> <i>Lobelia anceps</i> <i>Lobelia purpurascens</i> <i>Oxalis perennans</i> <i>Plantago debilis</i> <i>Plectranthus parviflorus</i> <i>Pseuderanthemum variabile</i> <i>Rumex brownii</i> <i>Senecio linearifolius</i> var. 7 <i>Senecio minimus</i> <i>Senecio tenuiflorus</i> <i>Solanum pungetium</i> <i>Solanum silvestre</i>	Forbs (continued) <i>Solanum stelligerum</i> <i>Stellaria flaccida</i> <i>Tetragonia tetragonioides</i> <i>Urtica incisa</i> <i>Veronica plebeia</i> <i>Viola eminens</i> Ferns <i>Asplenium flabellifolium</i> <i>Doodia aspera</i> <i>Pellaea falcata</i> s.s. <i>Pteridium esculentum</i> <i>Pteris tremula</i> Epiphytes and/or Lithophytes <i>Asplenium australasicum</i> <i>Dendrobium speciosum</i> <i>Microsorium pustulatum</i> subsp. <i>pustulatum</i> <i>Muellerina celastroides</i> <i>Platyserium bifurcatum</i> <i>Pyrrosia rupestris</i> <i>Rumohra adiantiformis</i> Graminoids <i>Carex appressa</i> <i>Carex longibrachiata</i> <i>Dianella caerulea</i> s.l. <i>Dianella tasmanica</i> <i>Echinopogon ovatus</i> <i>Entolasia marginata</i> <i>Ficinia nodosa</i> <i>Gahnia aspera</i> <i>Gahnia melanocarpa</i> <i>Lachnagrostis billardierei</i> <i>Lepidosperma concavum</i> <i>Lepidosperma gladiatum</i> <i>Libertia paniculata</i> <i>Lomandra longifolia</i> <i>Luzula meridionalis</i> <i>Microlaena stipoides</i> var. <i>stipoides</i> <i>Notodanthonia longifolia</i> <i>Oplismenus hirtellus</i> <i>Poa ensiformis</i> <i>Poa labillardierei</i> <i>Zoysia macrantha</i>
TRANSFORMER WEEDS		
<i>Acetosa sagittata</i> <i>Agapanthus praecox</i> <i>Asparagus aethiopicus</i> <i>Asparagus asparagoides</i> <i>Asparagus densiflorus</i> <i>Asparagus plumosus</i> (black berry tall climber) <i>Asparagus scandens</i> <i>Chlorophytum comosum</i> (spider plant) <i>Chrysanthemoides monolifera</i> subsp. <i>rotundata</i> <i>Coprosma repens</i> <i>Cortaderi selloana</i> (Pampas Grass) <i>Cotoneaster glaucophyllus</i> (large leaf) <i>Cotoneaster pannosus</i> (small leaf) <i>Crassula</i> sp. (long trailing) <i>Crassula multicava</i>	<i>Crataegus monogyna</i> <i>Delairea odorata</i> <i>Dolichos</i> (=Dipogon) <i>lignosus</i> <i>Eriobotrya japonica</i> (Loquat) <i>Festuca arundinacea</i> <i>Galium aparine</i> <i>Hedera helix</i> <i>Jasminum polyanthum</i> <i>Lantana camara</i> var. <i>camara</i> <i>Ligustrum lucidum</i> (large leaf) <i>Ligustrum sinense</i> <i>Ligustrum vulgare</i> <i>Lonicera fragrantissima</i> (hairy-stemmed version of <i>L. japonica</i>) <i>Lonicera japonica</i>	<i>Lycium ferrocissimum</i> <i>Olea europaea</i> subsp. <i>cuspidata</i> <i>Opuntia</i> sp. <i>Oxalis incarnata</i> <i>Pennisetum clandestinum</i> <i>Phalaris</i> subsp. (previously <i>aquatica</i>) <i>Phoenix canariensis</i> <i>Pinus radiata</i> <i>Polygala myrtifolia</i> <i>Populus x canescens</i> <i>Rhaphiolepis indica</i> (Fairfield Park Shrub) <i>Stenotaphrum secundatum</i> <i>Tradescantia albiflora</i> <i>Vinca major</i> <i>Zantedeschia aethiopica</i>

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