

# Species Datasheet

Datasheet No. G-011.002.005  
(family.genus.species)

## 1.Taxon:

Species: *Callitris rhomboidea* R. Br. ex Rich. & A. Rich.

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. **Synonyms:** *Callitris articulata* Gordon, *C. australis* (Pers.) Sweet, *C. cupressiformis* Vent., *C. cupressiformis* F.Muell., *C. cupressiformis* var. *mucronata* Maiden, *C. cupressiformis* var. *pendula* (Parl.) Maiden, *C. cupressiformis* var. *tasmanica* Maiden, *C. fothergillii* Loudon, *C. rhomboidea* var. *tasmanica* (Benth.) Ewart, B.Rees & B.Wood, *C. tasmanica* (Benth.) R.T.Baker & H.G.Sm., *C. ventenatii* R.Br. ex Mirb., *Cupressus australis* Pers., *Cyparissia australis* (Pers.) Hoffmanns., *Frenela australis* (Pers.) Mirb. ex Endl., *F. rhomboidea* (R.Br. ex Rich. & A.Rich.) Endl., *F. rhomboidea* var. *mucronata* Benth., *F. rhomboidea* var. *pendula* Parl., *F. rhomboidea* var. *tasmanica* Benth., *F. triquetra* Spach, *F. variabilis* Carriere, *Thuja australis* Bosc ex Poir., *T. inaequalis* Desf.

## 3.Systematic Position:

### Christenhusz et al. (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Pinidae Cronquist
- Order: Cupressales Link
- Family: Cupressaceae Gray
- Genus: *Callitris* Vent.
- Species: *C. rhomboidea* R. Br. ex Rich. & A. Rich.

### Bentham and Hooker (1862)

Kingdom: Plantae  
Division: Phanerogamia  
Class: Gymnospermeae  
Ordo: Coniferae  
Tribus: Cupressineae  
Genus: *Callitris* Vent.  
Species: *C. rhomboidea* R. Br. ex Rich. & A. Rich.

## 4.Distribution:

**Global:** Native to South Australia, Queensland, New South Wales, Victoria and Tasmania

**India:** Naturalized in south Indian hill Stations, Tamil Nadu, planted in Sikkim

## 5.Indigenous/Exotic/Endemic;Cultivated/Wild:Cultivated

## 6. Threat Status:

**IUCN:** Least concern

**BSI:**

**7. Habit and Habitat:** Tree (9-15 m tall), Grows in woodlands on the coast and tablelands. Usually found in open woodland in montane areas but also on coastal heaths and in riparian areas.

**8. Life Form:** Phanerophytes

**9. Economic Importance:** The termite and rot resistant wood has been locally used for fencing in some areas.

**10. Probable Progenitor of:**

## 11. DNA

| C-value | Methodology |
|---------|-------------|
|---------|-------------|

|                           |                                        |
|---------------------------|----------------------------------------|
| 2C (22.33pg) <sup>7</sup> | Feulgen microdensitometry <sup>7</sup> |
|---------------------------|----------------------------------------|

|                            |                             |
|----------------------------|-----------------------------|
| 2C (18.00 pg) <sup>8</sup> | Flow cytometry <sup>8</sup> |
|----------------------------|-----------------------------|

**12. Basic chromosome number(s):**  $x=11$  <sup>1, 3, 6, 8</sup>

**13. Zygotic chromosome number(s):**  $2n=22$  <sup>6, 8</sup>

**14. Gametic chromosome number(s):**  $n=11$  <sup>1, 6</sup>

**15. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/Neocentric chromosomes):**

Image file

**16. Ploidy level:** Diploid <sup>1, 6, 8</sup>

Image file

**17. Agametoploidy:**

**18. Nature of polyploidy (auto, segmental, allo, autoallo):**

**19. Genomic formula:**

**20. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty):**

**21. Somatic chromosomes:**<sup>6, 8</sup>

**Karyotype** Median and submedian<sup>6, 8</sup>

**Chromosome size** Large<sup>6, 8</sup>

**NOR chromosome(s)** 2<sup>6, 8</sup>

**Degree of asymmetry** Symmetrical<sup>6, 8</sup>

Image file

**22. Banding pattern(s):** CMA<sup>+</sup> bands<sup>8</sup>

Image file

**23. Physical mapping of chromosomes:**

**In situ hybridization**

Image file

**Fluorescent in situ hybridization:**

Image file

**24. Genomic in situ hybridization:**

Image file

**25. Linkage map:**

Image file

**26. Chromosome associations:**

**Female meiosis**

**Male meiosis**

Image file

**27. Chromosome distribution at anaphase I:**

**28. Genetic diversity:**

**Chromosomal level**

Image file

**DNA level**

**29. Any other information (Apomixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocation etc.):**