Species Datasheet

Datasheet No. G-011.006.007
(family.genus.species)

1.Taxon:

Species: *Cupressusmacrocarpa*Hartw.ex Gordon
Subspecies:
Variety:
Cultivar:
Hybrid:

Image file

2. Synonyms:*Callitropsis macrocarpa* (Hartw.) D.P.Little, *Cupressus hartwegii* Carrire, *C.lambertiana* Carriere, *C. lambertiana* var. *fastigiata* Carriere, *C. macrocarpa* Hartw. ex Gordon, *C. macrocarpa* var. *angulata* Lemmon, *C. macrocarpa* var. *crippsii* R.Sm., *C. macrocarpa* f. *crippsii* (R.Sm.) Rehder, *C. macrocarpa* var. *farallonensis* Mast., *C. macrocarpa* f. *fastigiata* (Carriere) Rehder, *C. macrocarpa* var. *lambertiana*(Carriere) Mast., *C. macrocarpa* subsp. *lobosensis* Silba, *C. macrocarpa* f. *lutea* (Webster) Rehder, *C. macrocarpa* var. *lutea* Webster, *C. macrocarpa* f. *pygmaea* A.B.Jacks., *C. reinwardtii* Beissn., *Hesperocyparis macrocarpa* (Hartw.) Bartel, *Neocupressus macrocarpa* (Hartw.) de Laub.

3. Systematic Position:

Christenhusz*et al.* (2011)

- Class: Equisetopsida C. Agardh
- Subclass: PinidaeCronquist
- Order: Cupressales Link
- Family:Cupressaceae Gray
- Genus: *Cupressus*L.
- Species: *C.macrocarpa*Hartw. ex Gordon

Bentham and Hooker (1862)
Kingdom: Plantae
Division: Phanerogamia
Class: Gymnospermeae
Ordo: Coniferae
Tribus: Cupressineae
Genus: *Cupressus*L.
Species: *C.macrocarpa*Hartw.ex Gordon

4.Distribution:

Global: Native of Monterey locality in California, grown successfully in S. Africa, New Zealand, Australia Uganda & Kenya.

India:

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

6.Threat Status:

IUCN: Vulnerable

BSI:

7.Habit and Habitat: Medium sized evergreen tree (up to 30 m tall)Grown at higher elevations, this is restricted to a narrow coastal strip on rocky cliffs, slopes and headlands, forming pure stands or associated with *Pinusradiata*, in loam or sand over granitic rocks or in rock crevices.

8.Life Form: Phanerophytes

9.Economic Importance: In some African countries as a timber tree, but mostly as an ornamental tree.

10. Probable Progenitor of:

11.DNA

C-value	**Methodology**
2C (28.36 pg)[9]	Feulgenmicrodensitometry[9]

12.Basic chromosome number(s):x=11[3, 5, 9]

13. Zygotic chromosome number(s):2n=22[3, 6, 9]

14. Gametic chromosome number(s):n=22[7]

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

Image file

16.Ploidylevel: Diploid[3, 6, 9]**,**Tetraploid (sporadic)[7]

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:[3,6]

KaryotypeMedian and submedian[3,6]

Chromosome size Large[3,6]

NOR chromosome(s)6[3]

Degree of asymmetry Symmetrical[3,6]

Image file

22. Banding pattern(s):CMA+ bands[3]

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 meiosis22 II[7]

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;Translocationsetc.):