

Species Datasheet

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Datasheet No. G-011.006.002
(family.genus.species)

1.Taxon:

Species: *Cupressus cashmeriana* Royle ex Carriere

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. Synonyms: *Cupressus assamica* Silba, *C. cashmeriana* subsp. *himalaica* (Silba) Silba, *C. darjeelingensis* (Silba) Silba, *C. himalaica* Silba, *C. himalaica* var. *darjeelingensis* Silba, *C. pendula* Griff., *C. pseudohimalaica* Silba, *C. tortulosa* Griff., *C. tortulosa* subsp. *himalaica* (Silba) Silba, *C. torulosa* var. *cashmeriana* (Royle ex Carriere) A.H.Kent

3.Systematic Position:

Christenhusz et al. (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Gnetidae Pax
- Order: Cupressales Link
- Family: Cupressaceae Gray
- Genus: *Cupressus* L.
- Species: *C. cashmeriana* Royle ex Carriere

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Gymnospermeae

Ordo: Coniferae

Tribus: Cupressineae

Genus: *Cupressus* L.

Species: *C. cashmeriana* Royle ex Carriere

4.Distribution:

Global: Native to Bhutan, India

India: Native to eastern Himalayas in Bhutan and Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal

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

6.Threat Status:

IUCN: Near Threatened

BSI:

7.Habit and Habitat: Medium to large evergreen tree (20-45 m tall), A very large emergent in evergreen angiosperm forest dominated by *Quercus*, with lauraceous trees in the understorey, the altitudinal range is from 1,250m to 2,670 m a.s.l. The climate in optimal stands is strongly influenced by summer monsoon rains

8.Life Form:Phanerophytes

9.Economic Importance:The uses of this tree are ornamental, religious, possibly medicinal.

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=11^{5, 8}$

13. Zygotic chromosome number(s): $2n=$

14. Gametic chromosome number(s): $n=11^8$

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

Image file

16.Ploidy level:Diploid⁸

Image file

17.Agametoploidy:

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

19.Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):

21. Somatic chromosomes:

Karyotype

Chromosome size

NOR chromosome(s)

Degree of asymmetry

Image file

22. Banding pattern(s):

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 11 II^8

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.):