

# Species Data sheet

Datasheet No. A-078.012.001  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

Species: *Cyanotis arachnoidea* C. B. Clarke

Subspecies

Variety

Cultivar

Hybrid

Image file

2. **Synonyms:** *Cyanotis bodinieri* H.Lév. & Vaniot, C. *Laborde* H.Lév. & Vaniot, Kuntze,  
*C. lanata* var. *lanuginosa* K.Schum., *C. pilosa* Wight, *Tonningia arachnodea* (C.B. Clarke)  
*Tradescantia incana* B. Heyne ex C.B. Clarke, *T. lanata* B. Heyne ex C.B. Clarke.

## 3. Systematic Position:

### APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Clade: Commelinids
- Order: Commelinales Mirb. ex Bercht. & J. Presl
- Family: Commelinaceae Mirb.
- Genus: *Cyanotis* D. Don.
- Species: *C. arachnoidea* C. B. Clarke

### Bentham and Hooker (1862)

Kingdom: Plantae  
Division: Phanerogamia  
Class: Monocotyledones  
Series: Coronarieae  
Ordo: Commelinaceae Mirb.  
Genus: *Cyanotis* D. Don.  
Species: *C. arachnoidea* C. B. Clarke

## 4. Distribution:

**Global:** Western Tropical Africa to Tanzania, India to Taiwan

**India:** Peninsular India

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

## 6. Threat Status:

IUCN

BSI

7. **Habit and Habitat:** Herb. Grows in rocky crivices, slopes of grasslands, partial to fully exposed sun.

8. **Life Form:** Chamaephytes

9. **Economic Importance:** The roots are used as medicine for stimulating blood circulation, as a muscle and joint relaxant, and for relieving rheumatoid arthritis.

10. **Probable Progenitor of:**

11. **DNA**

## C-value

## Methodology

12. Basic chromosome number(s):  $x=12$ <sup>1</sup>

13. Zygotic chromosome number(s):  $2n=20^{2,3,4,5,6,31}22^{2,7,8}24^{1,2,6,7,9,28,28}26^8$

14. Gametic chromosome number(s):  $n=12^{2,6}13^{10}$

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

Image file

16. Ploidy level:

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:** Mostly terminal and subterminal<sup>1</sup>

**Chromosome size:**

**NOR chromosome(s):**

**Degree of asymmetry:** Asymmetrical<sup>1</sup>

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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:12II<sup>6</sup>**

Image file

**27.Chromosome distribution at anaphase I:10:10<sup>6</sup>**

**28. Genetic diversity:**

**Chromosomal level:**

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**DNA level**

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