

Final Species Datasheet JamU+CalU+SUK-Phase I

Datasheet No. A-253.003.001
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Shorea assamica* Dyer

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Shorea assamica* subsp. *globifera* (Ridl.) Y.K. Yang & J.K. Wu, *S. assamica* subsp. *koordersii* (Brandis ex Koord.) Y.K. Yang & J.K. Wu, *S. assamica* var. *philippinensis* (Brandis ex Koord.) Y.K. Yang & J.K. Wu

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicot
- Clade: Rosids
- Clade: Malvids
- Order: Malvales
- Family: Dipterocarpaceae Blume
- Genus: *Shorea* Roxb. ex C.F. Gaertn.
- Species: *S. assamica* Dyer

Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Polypetalae
- Series: Thalamiflorae
- Cohors: Guttiferales
- Ordo: Dipterocarpaceae Blume
- Genus: *Shorea* Roxb. ex C.F. Gaertn.
- Species: *S. assamica* Dyer

4. Distribution:

Global: India, peninsular Thailand, Peninsular Malaysia, Sumatra, Borneo, the Philippines, Sulawesi and the southern Moluccas

India: Assam, Arunachal Pradesh, Nagaland

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

6. Threat Status:

IUCN: Least concern

BSI:

7. Habit and Habitat: Tree; evergreen or semi-evergreen forest on fertile clay soils on well-drained flat or hilly country up to 1000 m altitude

8. Life Form: Phanerophyte

9. Economic Importance: The timber is the major source of white meranti and is used in plywood industry, boats, truck bodies and paper pulp

10. Probable Progenitor of:

11. DNA

C-value

Methodology

2C (0.682±0.004 pg)¹

Flow cytometry¹

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): 2n=14^{2,3}

14. Gametic chromosome number(s):

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, aneusomaty, polysomaty):

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

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level

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