

# Species Datasheet

Datasheet No. A-076.018.005  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

Species *Phoenix paludosa* Roxb.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. **Synonyms:** *Phoenix andamanensis* W.Mill., J.G.Sm. & N.Taylor, *Phoenix siamensis* Miq.

## 3. Systematic Position:

### APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperm
- Clade: Monocots
- Clade: Commelinids
- Order: Arecales Bromhead
- Family: Arecaceae Bercht. & J. Presl
- Genus: *Phoenix* L.
- Species: *P. paludosa* Roxb.

### Bentham and Hooker (1862)

Kingdom: Plantae  
Division: Phanerogamia  
Class: Monocotyledones  
Series: Calycinae  
Ordo: Palmae Juss.  
Genus: *Phoenix* L.  
Species: *P. paludosa* Roxb.

## 4. Distribution:

**Global:** Malay Peninsular, Indo-china, India and Northern Sumatra

**India:** Andaman and Nicobar Islands, Odisha and West Bengal

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

## 6. Threat Status:

**IUCN:**

**BSI:**

7. **Habit and Habitat:** Tree. Estuarine mangrove swamps at low elevation.

8. **Life Form:** Phanerophytes

9. **Economic Importance:** Fibers often from leaflets used as ropes brooms, stems for walking sticks and rafters.

10. **Probable Progenitor of:**

11. **DNA**

C- value

Methodology

12. **Basic chromosome number(s):**

13. **Zygotic chromosome number(s):**  $2n=36$  <sup>31,32,33</sup>

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, aneusomy, polysomy):** Somatic cells with abnormal chromosomes number of  $2n= 25$

**21. Somatic chromosomes:**

**Karyotype** Majority metacentric to submetacentric chromosomes <sup>31</sup>

**Chromosome size** Very small <sup>31</sup>

**NOR chromosome(s)** 4 NOR <sup>31</sup>

**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 (Apomixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocations etc):**