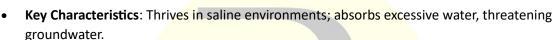
Flora in News 2024-2025

Conocarpus Plant

- **Status**: Banned in Gujarat.
- Type: Exotic invasive species, classified as a mangrove.
- Native Region: Tropical areas.
- Uses: Landscaping due to year-round dark green foliage.





- o Disrupts communication cables and drainage systems with its deep root system.
- Causes adverse environmental and human health impacts.

Microalgae

- **Type**: Microscopic algae found in freshwater and marine systems.
- Structure: Unicellular, existing individually or in chains/groups; lacks roots, stems, or leaves.
- Categories: Classified based on color—green, red, or brown.
- Importance:
 - Forms the base of the aquatic food chain, serving as a primary food source for filterfeeding organisms.
 - o Contributes half of the atmospheric oxygen through photosynthesis.
 - Absorbs CO2 and can fix nitrogen (e.g., species like Nostoc, Anabaena, Oscillatoria).
 - Rich in nutrients, with edible types like Spirulina and Chlorella.





Chinars

- Scientific Name: Platanus orientalis (Oriental Plane).
- Status: Official tree of Kashmir.
- Characteristics:
 - o Deciduous tree growing up to 30 m (98 ft).
 - Displays seasonal color changes, from deep green to blood red, amber, or yellow in autumn.
- Native Range: Eurasia (from the Balkans to Central Asia, including Iberia, Israel, and the Himalayas).



- Brought to Kashmir by Islamic preachers in the 14th century.
- Associated with Hindu goddess Bhavani by Hindu Kashmiris.
- Prominent in Mughal gardens and landscapes.

Cuscuta Dodder

- **Type**: Parasitic vine lacking roots (holoparasitic plant).
- Native Region: North America.
- **Current Spread**: Invading reserve forests and bird sanctuaries like Vedanthangal in Tamil Nadu.
- Impact:
 - Forms dense canopies on host plants, strangling and killing them.
 - Affects oilseeds, pulses, and fodder crops in various Indian states.
- Global Status: Declared a noxious weed in 25 countries.

Roen Olmi

- **Type**: Edible mushroom of the *Termitomyces* species.
- **Habitat**: Termite hills in the Western Ghats (Goa).
- Role: Biodegrades 50% of dead plant material into nutrient-rich soil.
- Unique Trait: Dependent on termites for survival, making it impossible to cultivate artificially.







Azolla

- Other Names: Mosquito fern, duckweed fern, fairy moss, water fern.
- **Type**: Aquatic fern from the *Salviniaceae* family.
- Key Traits:
 - Highly productive, capable of doubling biomass in less than two days.
 - Forms a symbiotic relationship with cyanobacterium Anabaena azollae for nitrogen fixation.
 - Historically contributed to global cooling during the Eocene era by absorbing massive carbon amounts.
- Concerns: Can become invasive in non-native environments.

Jacaranda

- Scientific Name: Jacaranda mimosifolia.
- Native Region: Tropical and subtropical Americas.
- Characteristics:
 - Large trees (20–30 m) with blue-violet flowers.
 - Flowers grow in panicles with a five-lobed corolla;
 some species produce white flowers.
- Global Cultivation: Widely planted for its ornamental beauty.

Begonia Narahari

- **Type**: Newly discovered flowering plant.
- Location: Arunachal Pradesh.
- Notable Features: Distinctive vivid blue iridescence under direct light.

Cycas Circinalis

- Common Names: Eenthu Pana (Kerala), Mund Isalu (Kannada), Madana Kama Raja (Tamil).
- **Type**: Member of the endangered Cycadaceae family.
- Habitat: Endemic to the Western Ghats; found in hilly, dry, and scrubby woodlands.
- Characteristics:







- Perennial palm-like tree, up to 25 feet tall.
- Facultatively deciduous during droughts.
- Takes 40–50 years to bear fruit.
- **Uses**: Valued by indigenous communities for nutritional and medicinal properties.



Orans: The Sacred Groves of Rajasthan

- Type: Community-managed sacred forests in Rajasthan.
- **Cultural Importance**: Preserved for centuries with connections to local deities.
- Biodiversity:
 - o Includes water bodies and supports critically endangered species like the Great Indian Bustard.
- Concerns: Potential loss of access and livelihood if declared deemed forests.

Sacred Groves (General)

- **Definition**: Relic forest patches protected in reverence of deities.
- **Distribution**: Found throughout India; known as:
 - Kavu/Sarpa Kavu (Kerala),
 - Devarakadu/Devkad (Karnataka),
 - Deorai/Devrai (Maharashtra),
 - Jahera/Thakuramma (Odisha).



• **Significance**: Critical for conserving biodiversity and providing habitats for endangered species.

SMART SOLUTIONS

Stipagrostis Sabulicola (Namib Dune Bushman Grass)

- **Type**: Desert grass
- Habitat: Endemic to the Namib Desert dunes.
- Key Features:
 - Perennial, grows up to 2 meters tall with a shallow root system to absorb water from fog and dew.
 - o Specialized leaf structures effectively condense moisture from the air.
- Ecological Role:



- Supports a unique desert food web by forming "fog plant oases."
- o Relies on fog (39 mm annually) rather than rain (17 mm annually) for moisture.

Tulips

- Scientific Classification: Genus *Tulipa*, family Liliaceae.
- Native Region: Central Asia and Turkey.
- Characteristics:
 - Spring-blooming, perennial, bulbous plants with large, showy flowers in various colors (red, yellow, pink, white, and orange).
 - Often have a distinct colored blotch at the base of the tepals.



• **Cultivation**: Widely grown as ornamental garden plants and for commercial flower production.

Elm Trees

- Scientific Classification: Genus *Ulmus*.
- Native Region: Temperate and tropical-montane regions of North America and Eurasia.
- Characteristics:
 - Deciduous or semi-deciduous, can grow up to 30 m
 tall
 - Known for oval-shaped leaves with toothed edges and visible veins.
- Uses: Wood used for ship keels, archery bows, furniture, and musical instruments due to its strength and resistance to rot.
- Conservation Concerns:
 - Many species affected by Dutch elm disease, a fungal infection spread by bark beetles.

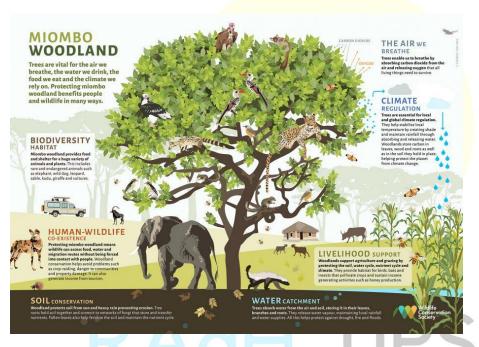


Coca Plant

- Scientific Name: Erythroxylum coca.
- Native Region: Tropical South America.
- Characteristics: Shrub-like plant used traditionally in Andean cultures.
- **Significance**: The plant has a controversial role as the source of cocaine, influencing agriculture and socio-economic issues.



Miombo Forest



- **Location**: Spans central and southern tropical Africa, including Angola, Tanzania, and Zimbabwe.
- Flora: Dominated by Brachystegia and Julbernardia tree species.
- Significance:
 - o Vital resource for millions, providing fuelwood, timber, and food.
 - o Supports diverse wildlife, including elephants and endemic birds.
- Threats: Deforestation, agricultural expansion, and illegal hunting.

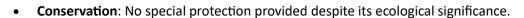
Mettukurinji

• Scientific Name: Strobilanthes sessilis.

• Habitat: Idukki hills, Kerala.

• Characteristics:

 Blooms every seven years, creating stunning violet landscapes.





Gongronema sasidharanii

• Type: Newly identified plant species.

Habitat: Pampadum Shola National Park, Kerala.

• Characteristics:

 Smooth stems with urn-shaped flowers that are creamy-white to purplishgreen.





Coral Triangle



• **Region**: Tropical waters surrounding Indonesia, Malaysia, Papua New Guinea, the Philippines, Solomon Islands, and Timor-Leste.

• Significance:

- o Known as the "Amazon of the Seas" for its unparalleled marine biodiversity.
- Contains over 76% of the world's shallow-water reef-building coral species and 37% of reef fish species.

• Economic Importance:

- o Contributes \$1.2 trillion annually to the marine ecosystem's GDP.
- o Supports over 120 million people.
- Threats: Overfishing, habitat destruction, pollution, and climate change.

Mikania Micrantha

- **Type**: Perennial creeping climber, invasive weed.
- Native Region: Central and South America.
- Impact:
 - Introduced to India in the 1940s; now affects tea plantations and forest areas.
 - Smothers native plants and inhibits seed germination through allelopathy.



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