

Meghalaya Burrowing Reed Snake

Prelims: Current events of national importance | Biodiversity & Conservation

Why in News?

A new species has been discovered in Meghalaya's West Garo Hills, resolving decades-long taxonomic confusion in Northeast India's fossorial snake group.

- **Common Name** - Meghalaya Burrowing Reed Snake
- **Scientific Name** - Calamaria garoensis.
- **Genus** - Calamaria.
- **Family** - Colubridae.
- **Kingdom** - Animalia.
- **Habitat** - Forested, moist soils of Oragitok, West Garo Hills, Meghalaya.
- **Distribution** - Currently known only from this region, indicating a ***restricted range*** and high conservation importance.
- **Morphology**
 - **Scales** - Smooth dorsal scales in 13 rows.
 - **Tail** - Short, non-tapering with an obtuse tip.
 - **Coloration** - Broad median black stripe on underside of tail; faint nuchal ring on neck.
 - **Body Pattern** - Longitudinal striping distinct from related species.



- **Diet** - Primarily insectivorous/vermivorous, feeding on small invertebrates.
- **Genetic Distinction**
 - **Phylogenetic Analysis** - Closely related to *Calamaria mizoramensis* but genetically distinct.
 - **Genetic Divergence** - 6.3%, confirming a separate evolutionary lineage.
- **Taxonomic Resolution** - Previously misidentified as *Calamaria pavementata* now recognized as a species complex.
- **Ecological Significance**
 - **Burrowing Lifestyle** - Fossorial species that aerate soil and regulate invertebrate populations.
 - **Indicator Role** - Reflects hidden biodiversity in Northeast India's forest ecosystems.
 - **Conservation Need** - Restricted distribution demands habitat protection and further surveys.
- **Conservation Status**
 - **IUCN Red List** - Not yet assessed (newly described).
 - **Potential Concern** - Limited range and habitat specificity suggest Vulnerable status if assessed.
- **Significance - Biodiversity Hotspot** - Reinforces Garo Hills as a *micro-endemic zone* within the Indo-Burma biodiversity hotspot.
- **Scientific Impact** - Highlights importance of integrative taxonomy combining morphology and mitochondrial DNA.
- **Conservation** - focused protection of lesser-known fossorial species is

necessary.

Reference

[The Hindu | Burrowing Reed Snake](#)

