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### Dicliptera Polymorpha

Source: PIB

#### Why in News?

Recently, Scientists from the **Agharkar Research Institute (ARI)**, an autonomous institute under the Department of Science & Technology (DST), have discovered a new species of **Dicliptera**, named **Dicliptera Polymorpha** in the Northern Western Ghats of India.

#### What are the Key Findings Related to Species?

- Unique Traits of Dicliptera Polymorpha:
  - Fire Resilience: It can survive summer droughts and adapt to grassland fires.
  - Dual Blooming Pattern: Blooms post-monsoon (November-April) and again in May-June after fires.
  - **Morphological Distinction:** It has inflorescence flower structures that are uncommon in Indian species but similar to those found in African species.
  - Adaptations to Harsh Conditions:
    - Thrives on open grassland slopes in the Western Ghats.
    - Woody rootstocks produce dwarf flowering shoots during the second flowering phase.
- Threats to Species:
  - **Human-Induced Fires:** While fires can help the species bloom again, too many or poorly controlled fires could harm its habitat.
  - Habitat Overuse: Overgrazing and land-use changes threaten grassland biodiversity.

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#### What are Key Facts About the Western Ghats?

- About:
  - The <u>Western Ghats</u>, also known as the **Sahyadri Hills**, are well known for their rich and unique assemblage of flora and fauna.
  - The range is called Sahyadri in northern Maharashtra, Nilgiri hills in Karnataka and Tamil Nadu and Anaimalai hills and Cardamom hills in Kerala.
  - It is recognized as a <u>UNESCO World Heritage Site</u>.
  - Western Ghats is home to India's two biosphere reserves, <u>13 National parks</u>, several wildlife sanctuaries and many Reserve Forests.
    - It comprised the evergreen forests of <u>Nagarahole</u>, deciduous forests of <u>Bandipur</u> <u>National Park</u> and Nugu in Karnataka and adjoining regions of <u>Wayanad and</u> <u>Mudumalai National Park</u> in the states of Kerala and Tamil Nadu.
- Global Biodiversity Hotspot:
  - One of India's four recognized biodiversity hotspots, it is home to many endemic and yet-tobe-discovered species.
- Conservation Efforts for Western Ghats:
  - Gadgil Committee (2011):
    - It is also known as the Western Ghats Ecology Expert Panel (WGEEP).
    - The committee recommended that all of the Western Ghats be declared as the <u>Ecological Sensitive Areas (ESA)</u> with only limited development allowed in graded zones.
  - **Kasturirangan Committee (2013):** It sought to balance the development and environment protection in contrast to the system proposed by the Gadgil report.
    - The<u>Kasturirangan committee</u> recommended that instead of the total area of Western Ghats, only 37% of the total area should be brought under ESA and a complete ban on mining, quarrying and sand mining be imposed in ESA.

# Western Ghats

One of the four biodiversity hotspots of India; recognised as a UNESCO WHS (2012)



**UPSC Civil Services Examination, Previous Year Questions (PYQs)** 

#### Prelims:

Q. Recently, our scientists have discovered a new and distinct species of banana plant which attains a height of about 11 meters and has orange coloured fruit pulp. In which part of India has it been discovered? (2016)

- (a) Andaman Islands
- (b) Anaimalai Forests
- (c) Maikala Hills

Ans: (a)

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