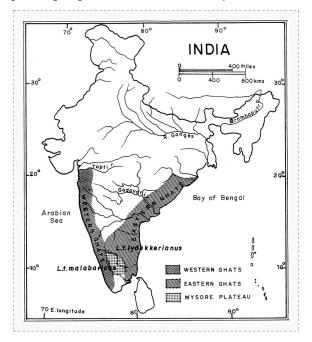
# **Ghats of India: Quick Note**

The Ghats are two major mountain ranges running along the western and eastern coasts of peninsular India.

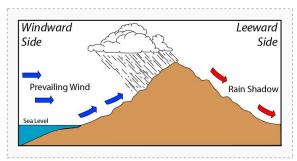


# Western Ghats (Sahyadri)

- Other Names: Sahyadri (Maharashtra, Goa, Karnataka), Sahya Parvatham (Kerala).
- Extent: Parallel to western coast, from Tapti River valley to Kanyakumari (approx. 1600 km).
- States Covered: Gujarat, Maharashtra, Goa, Karnataka, Kerala, Tamil Nadu.

#### **Key Characteristics:**

- Continuous range, traversable mainly through passes. Higher than Eastern Ghats.
- Average elevation: 900-1600m. Elevation generally increases from North to South.
- Forms a major watershed; source of Peninsular rivers: Godavari, Krishna, Kaveri, Bhima, Tungabhadra
- Steep western slope (facing Arabian Sea), gentle eastern slope (towards Deccan Plateau).
- Causes heavy orographic rainfall on western (windward) slopes during SW Monsoon. Eastern (leeward) slopes are in rain-shadow.



# **Biodiversity & Conservation:**

- One of the world's 8 'hottest hotspots' of biological diversity. High endemism.
- UNESCO World Heritage Site (39 serial sites inscribed in 2012).
- Vegetation: Tropical evergreen, semi-evergreen, moist deciduous forests, and Shola forests (montane evergreen forests with grasslands) in higher altitudes.

# Important Passes (North to South):

- Thal Ghat (Kasara Ghat): Connects Mumbai to Nashik.
- Bhor Ghat: Connects Mumbai to Pune.
- Palghat Gap (Palakkad Gap): Connects Coimbatore (TN) to Palakkad (Kerala). Significant break (approx. 30km wide).
- Senkotta Gap: Connects Kollam (Kerala) to Madurai (TN) (Shencottah-Madurai).

### Major Peaks

- Anamudi (2695m): Highest peak in Peninsular India & Western Ghats. Located in Anaimalai Hills (Kerala).
- Doddabetta (2637m): Second highest in WG, highest in Nilgiri Hills (Tamil Nadu).
- Kalsubai (1646m): Highest peak in Maharashtra.
- Mahabaleshwar (1438m): Maharashtra, source of Krishna river.
- Kudremukh (1892m): Karnataka (known for iron ore).
- Agasthyamalai (1868m): Southernmost part, a Biosphere Reserve.

# Relevant Committees (Conservation):

- Madhav Gadgil Committee (2011) (WGEEP Western Ghats Ecology Expert Panel): Recommended stringent protection, designating large areas as Ecologically Sensitive Zones (ESZs) with graded regulations.
- Kasturirangan Committee (2013) (HLWG High-Level Working Group): Recommended a more balanced approach, reducing the area under ESZs compared to Gadgil report; aimed to balance development and conservation.

# **Eastern Ghats (Purva Ghat)**

- Other Names: Purva Ghat. Ancient texts may refer to parts as Mahendra Parvatam.
- Extent: Discontinuous range along eastern coast, from Mahanadi River valley (Odisha) to Vaigai River (Tamil Nadu) Meets WG at Nilgiris.
- States Covered: Odisha, Andhra Pradesh, Telangana (parts), Tamil Nadu, Karnataka (small parts).

#### **Key Characteristics:**

- Discontinuous and highly eroded by major east-flowing Peninsular rivers (Mahanadi, Godavari, Krishna, Kaveri, Pennar).
- Average elevation: ~600m (lower than WG). Individual ranges vary.
- Do not cause significant orographic rainfall like WG. Receive rainfall from both SW and NE monsoons (especially southern parts from NE).
- Rich in minerals: Bauxite, iron ore, limestone, manganese, mica.

#### Major Hill Ranges (North to South - general order):

- Garhjat Hills (Odisha) Often considered as extension of Chota Nagpur Plateau.
- Mahendragiri Hills (Odisha-Andhra Pradesh border).
- Nallamala Hills (Andhra Pradesh, Telangana) Composed of Cuddapah system rocks.
- Velikonda Hills (Andhra Pradesh).
- Palkonda Hills (Andhra Pradesh).
- Nagari Hills (Andhra Pradesh).
- Javadi Hills (Tamil Nadu).
- Shevaroy Hills (Tamil Nadu) Yercaud hill station located here.
- Pachaimalai Hills (Tamil Nadu).
- Sirumalai Hills (Tamil Nadu).
- Biligiriranga Hills (BR Hills): (Karnataka/TN) Ecologically significant, acts as a bridge between WG & EG.

## Major Peaks:

- Jindhagada Peak (1690m): Located in Araku Valley, Andhra Pradesh. Often cited as the highest peak.
- Arma Konda (1680m): Andhra Pradesh, also cited as one of the highest.
- Devmali (1672m): Odisha.
- Mahendragiri (1501m): Odisha.
- Note: There's some variation in reported highest peaks of EG. Jindhagada/Arma Konda are prominent contenders.

### **Meeting Point of Ghats**

- The Western Ghats and Eastern Ghats converge at the Nilgiri Hills in Tamil Nadu (also bordering Kerala & Karnataka).
- Doddabetta (2637m) is the highest peak in the Nilgiri Hills.
- The Nilgiri Biosphere Reserve, India's first, is located here.

#### Key Differences: Western Ghats vs. Eastern Ghats

- . Continuity: WG are continuous; EG are discontinuous and broken into separate hill ranges.
- Elevation & Width: WG are generally higher and wider (avg. 900-1600m); EG are lower (avg. 600m) and narrower.
- Slope & Relief: WG have steep western slopes & gentler eastern slopes; EG have a more subdued and varied relief.
- Erosion: WG are comparatively less eroded; EG arehighly eroded by east-flowing rivers.
- River Origin: WG are the source of major Peninsular rivers; EG are dissected by rivers mostly originating in WG or Deccan Plateau.
- Rainfall Pattern: WG cause significant orographic rainfall; EG have a less pronounced orographic effect and receive rainfall from both monsoons.
- Biodiversity: WG are a global biodiversity hotspot with high endemism; EG are also rich in biodiversity but generally less diverse and with lower endemism compared to WG.
- **Dominant Vegetation:** WG feature tropical evergreen, semi-evergreen, and Shola forests; EG predominantly have dry/moist deciduous forests and scrub vegetation.