

A world map globe is shown from a top-down perspective, centered on the North Atlantic and Europe. The globe is color-coded to represent different regions and countries. The text "GEOGRAPHY" is overlaid in large, bold, black letters with a thick underline.

# GEOGRAPHY

# *Economic and Human Geography*

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## Water Resources

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## Natural Vegetation

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## Agriculture

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## Mineral and energy resources

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## Industries & Transportation

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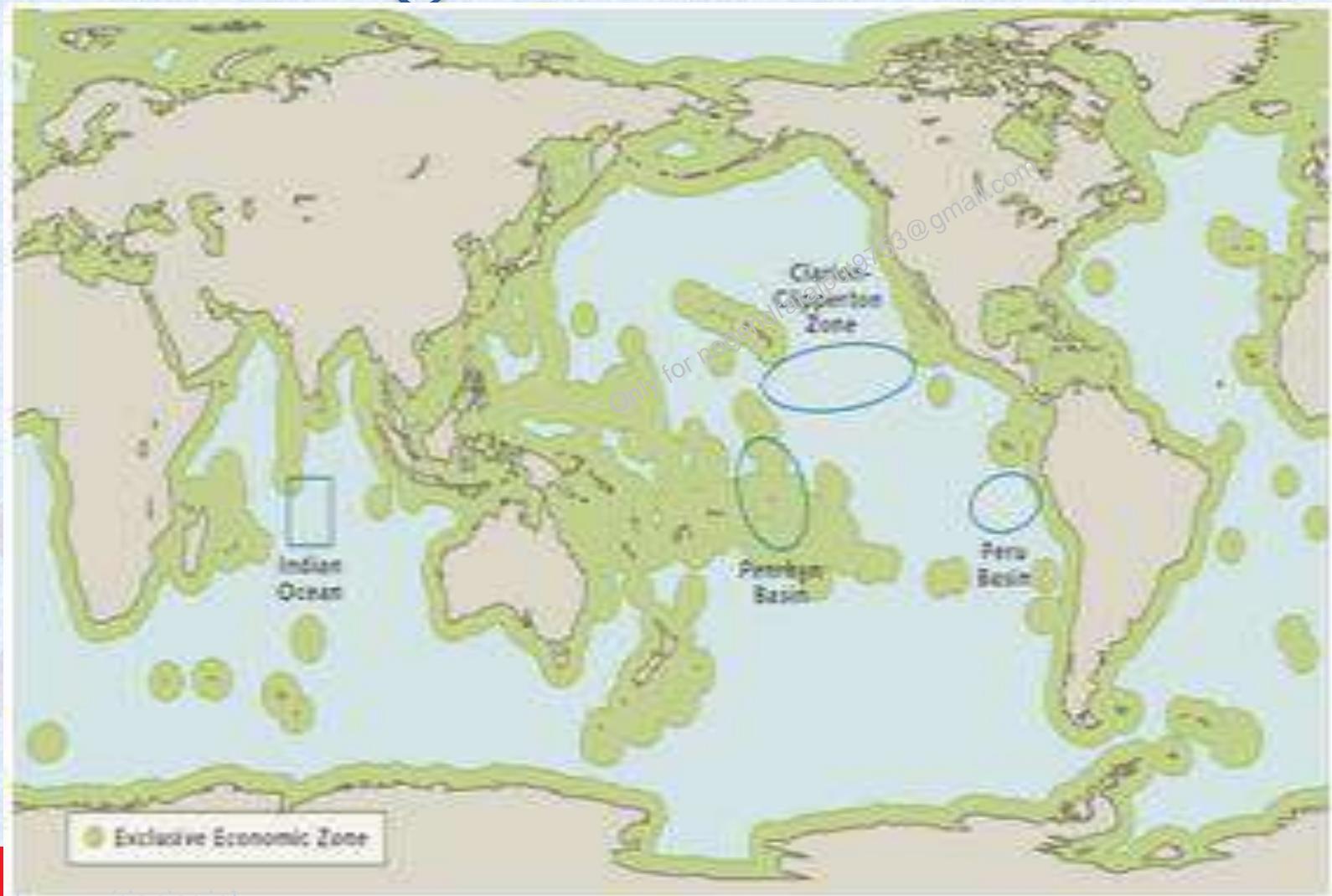
## Human Geography

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## Syllabus

- ❖ Salient features of world's physical geography.
- ❖ Distribution of key natural resources across the world (including South Asia and the Indian sub-continent); factors responsible for the location of primary, secondary, and tertiary sector industries in various parts of the world (including India).
- ❖ Important Geophysical phenomena such as earthquakes, Tsunami, Volcanic activity, cyclone etc., geographical features and their location-changes in critical geographical features (including water-bodies and ice-caps) and in flora and fauna and the effects of such changes.

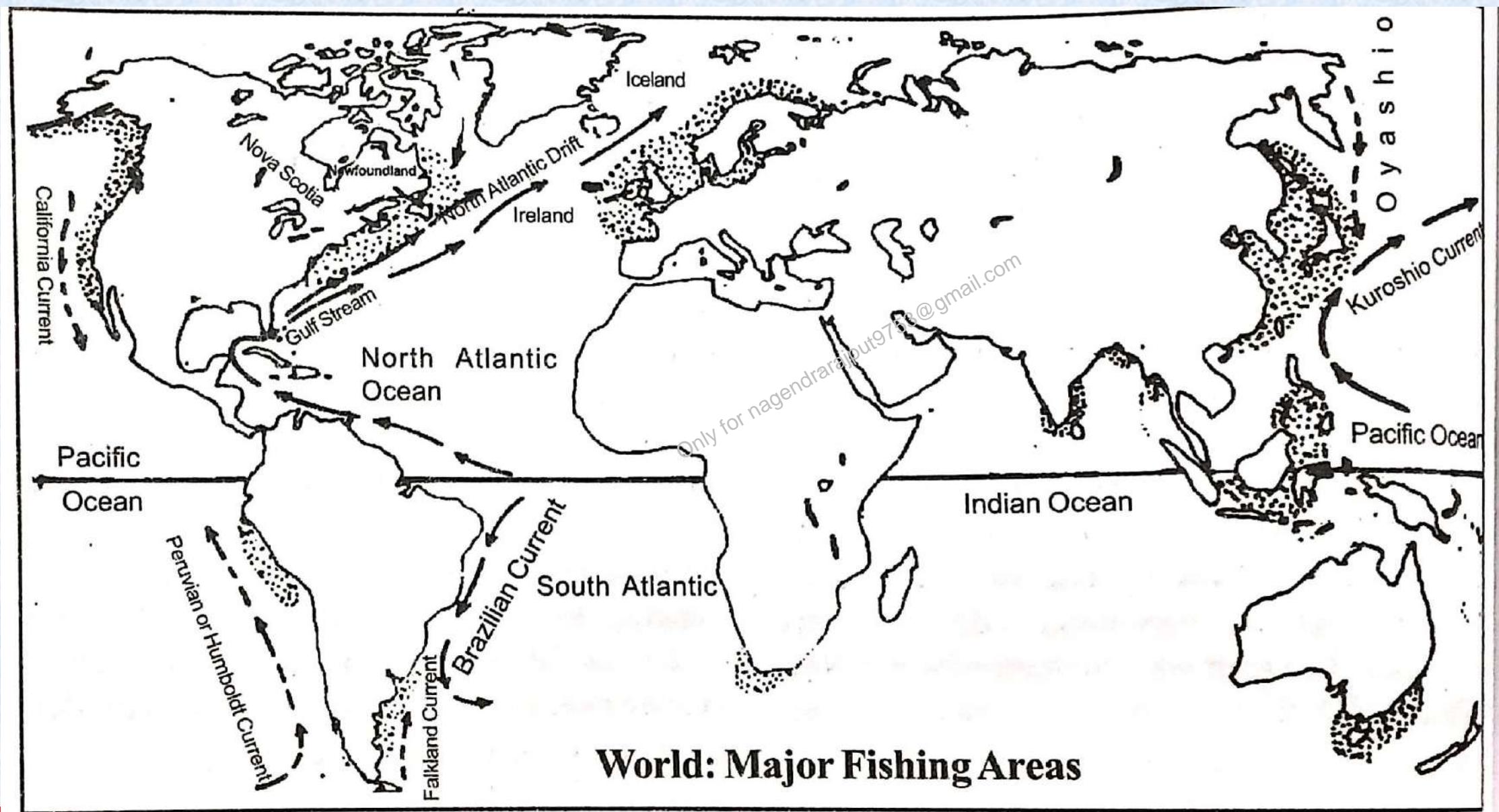
# Manganese nodules



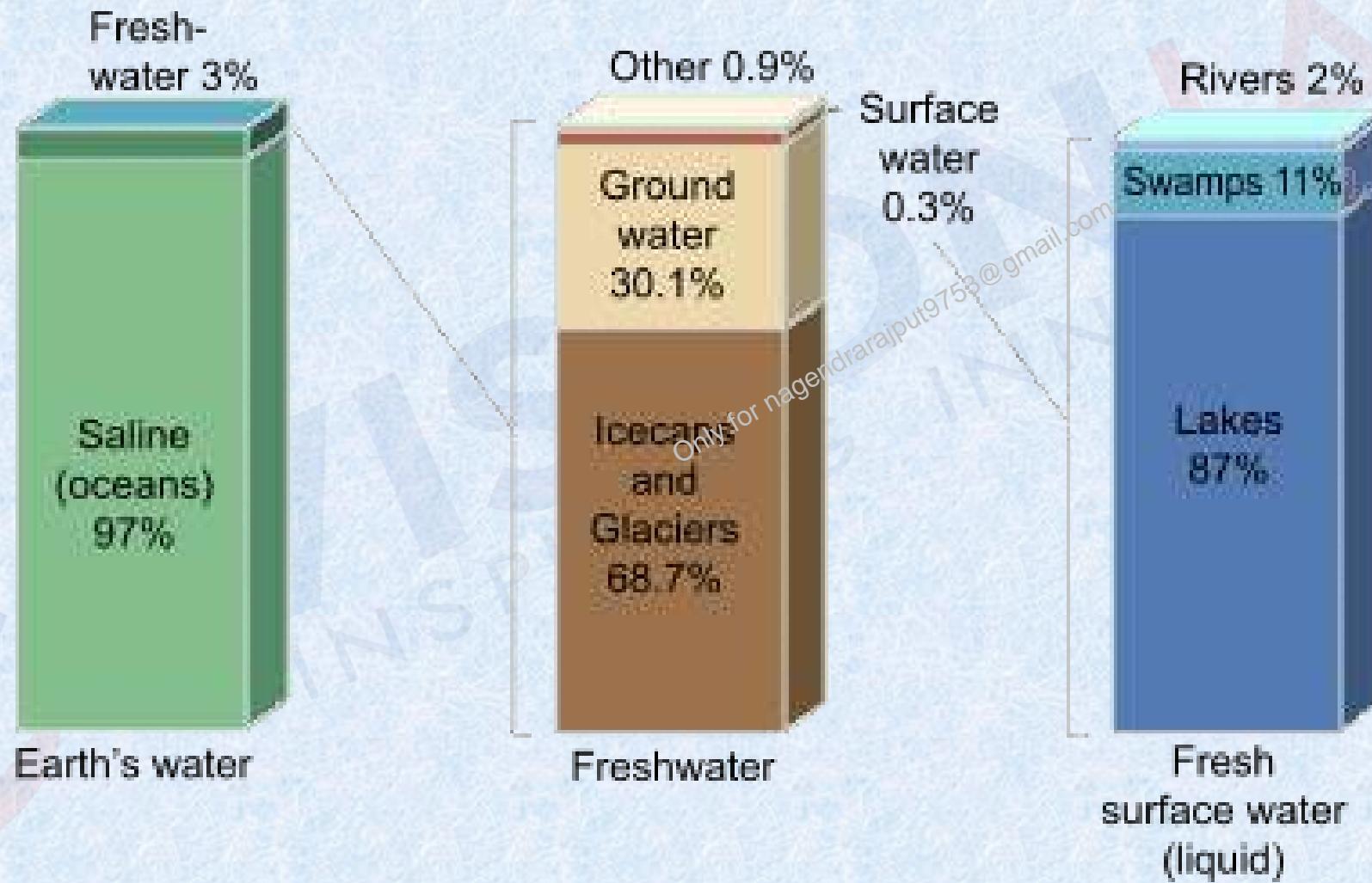


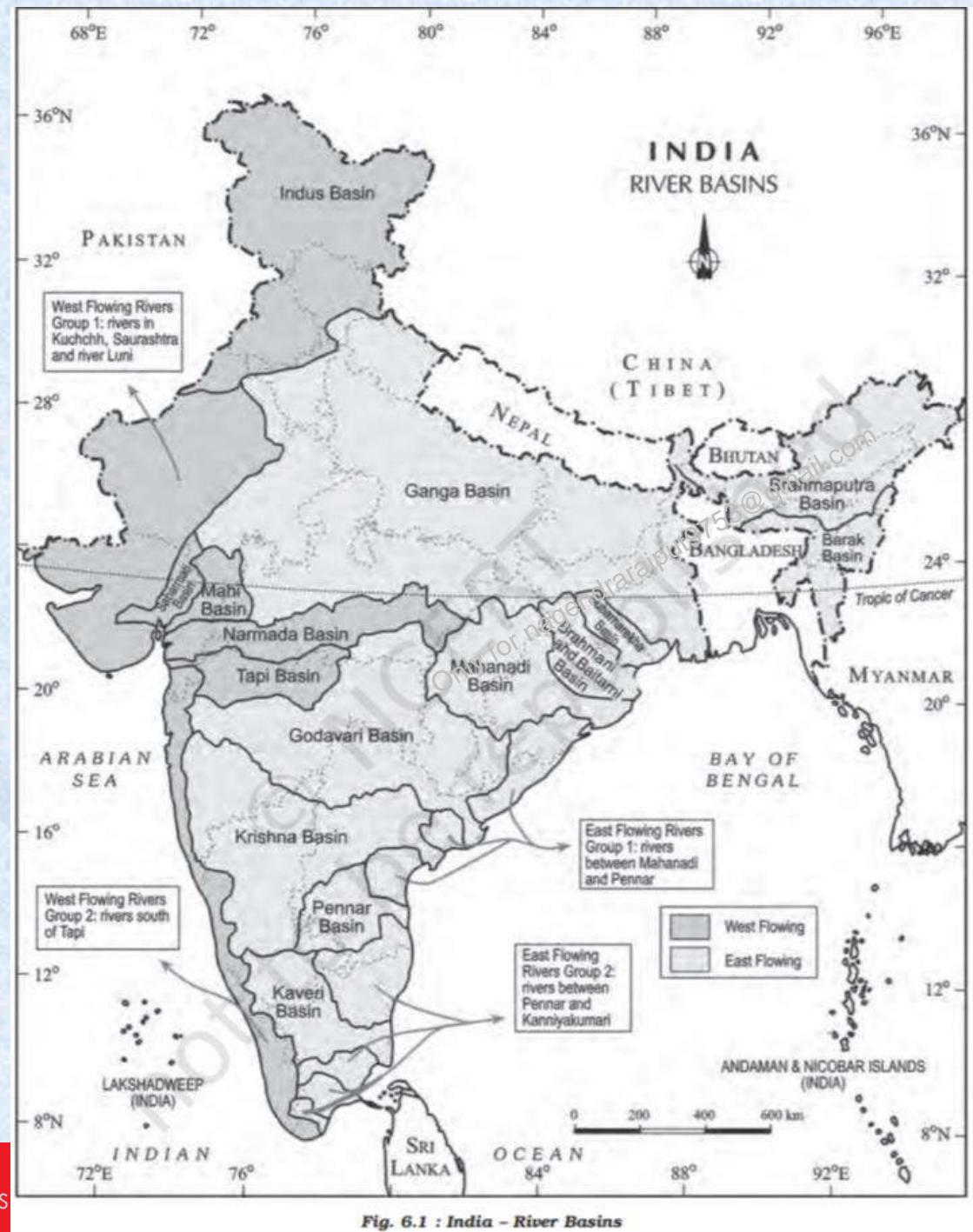
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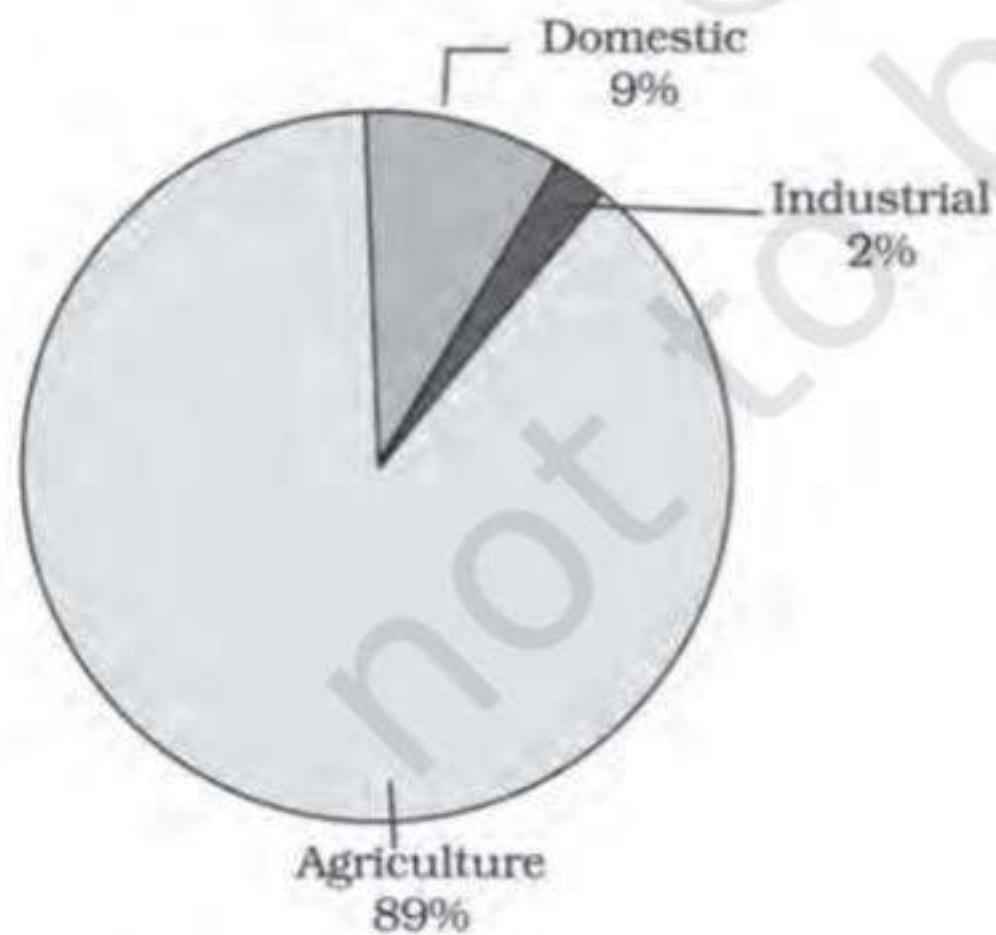


## Distribution of Earth's Water

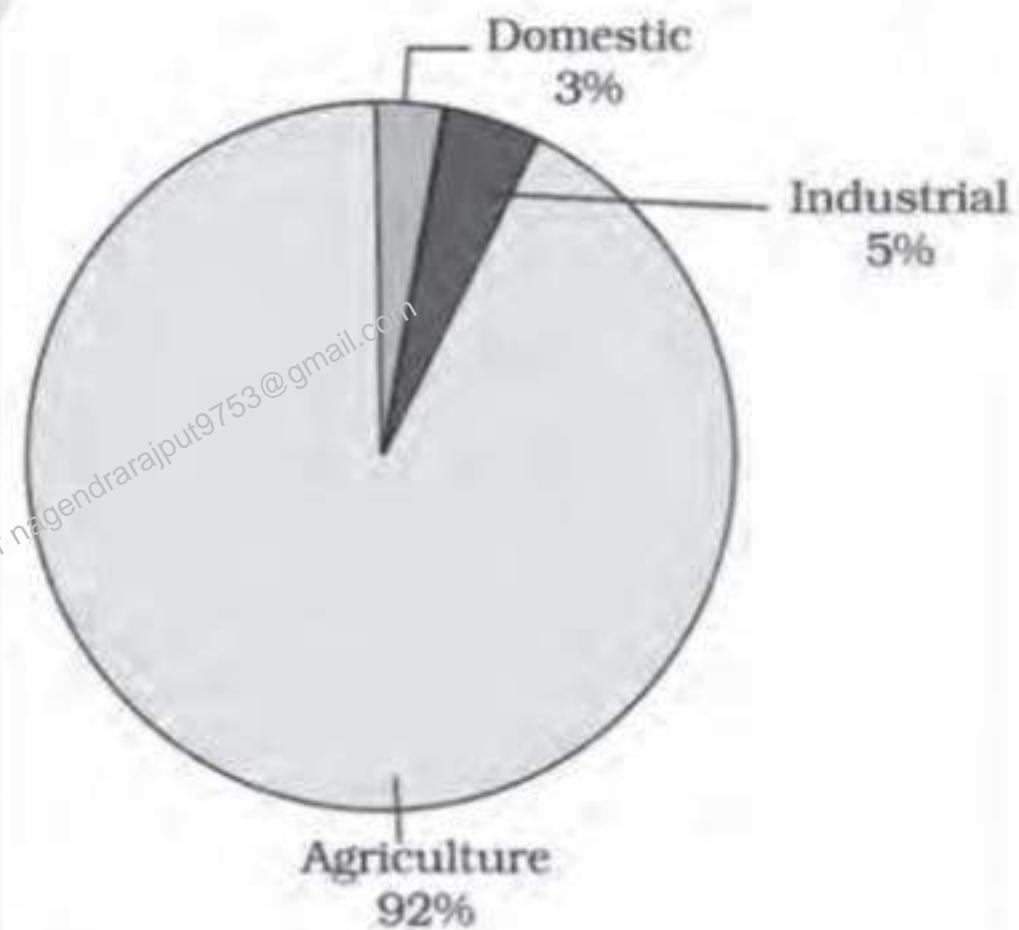




### Surface Water Withdrawals



### Groundwater Withdrawals

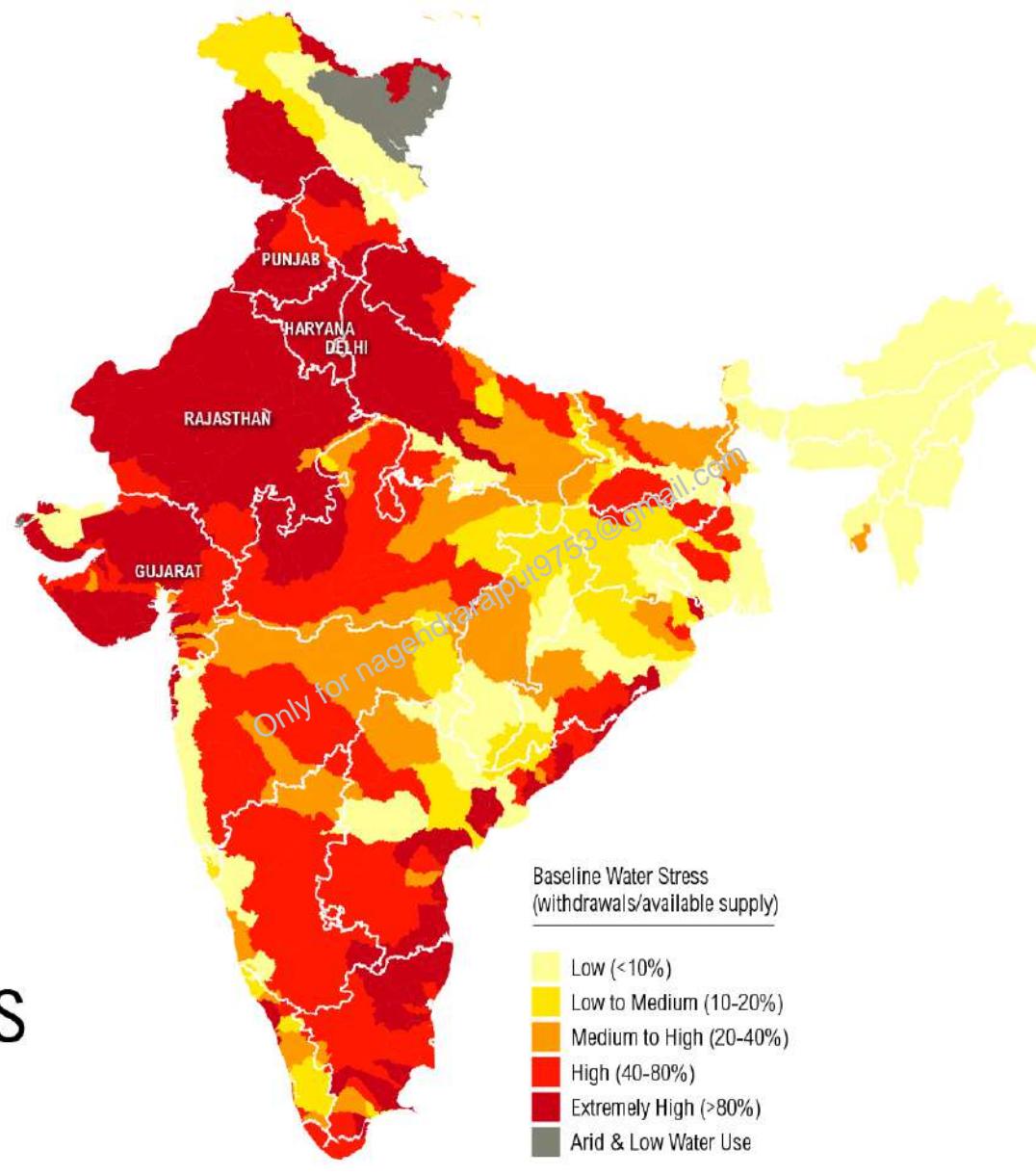


Source: Earth Trend 2001, World Resource Institute, as given in Govt. of India (2002) Report

**Fig. 6.2 : Sectoral Usage of Surface Water**

**Fig. 6.3 : Sectoral Usage of Groundwater**

**54%**  
of India  
Faces  
**High** to  
**Extremely**  
**High**  
Water Stress



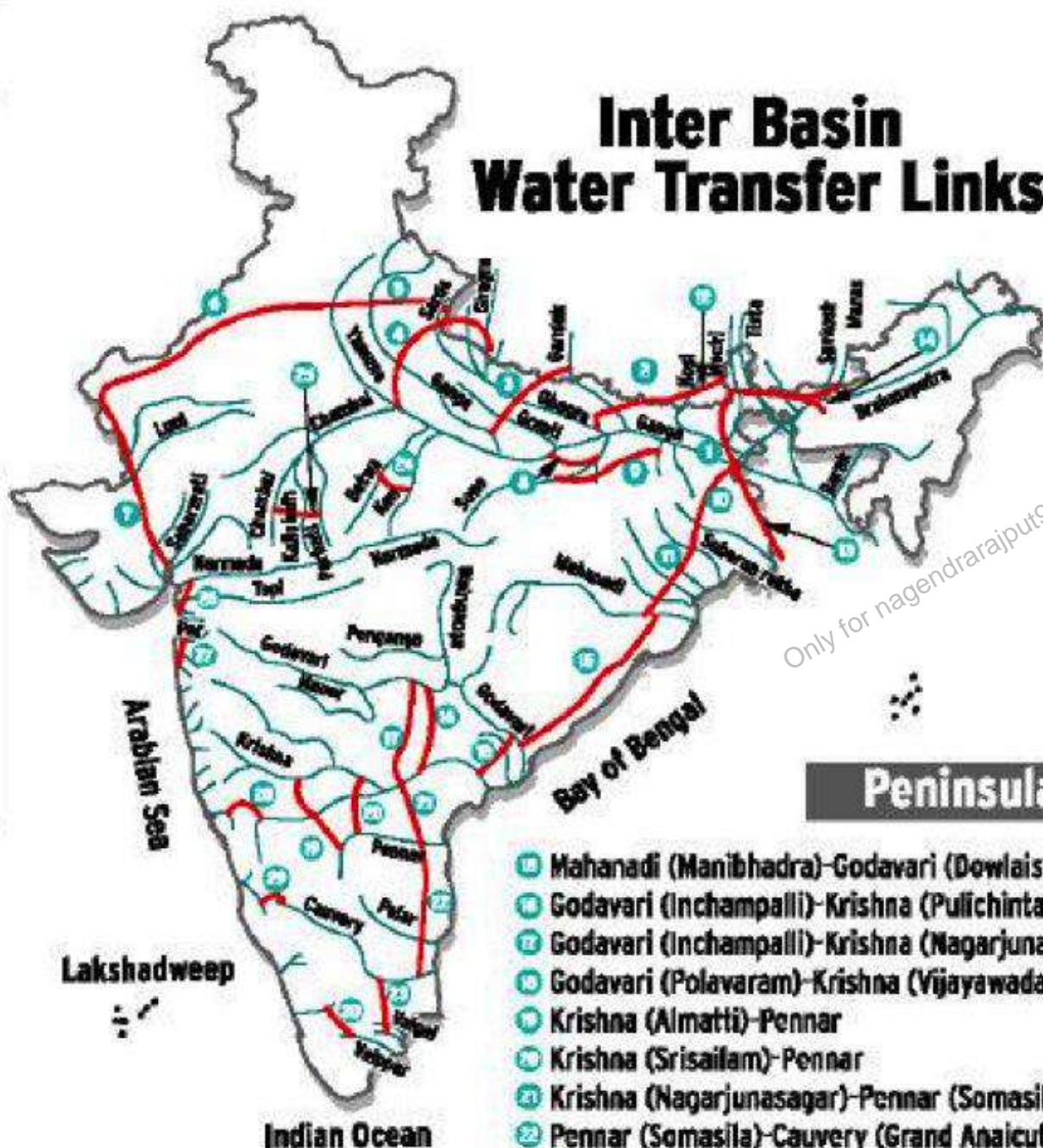
# WHAT IS A WATERSHED?

## The Making of a River



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# Inter Basin Water Transfer Links



## Himalayan component

- Manas-Sankosh-Tista-Ganga
  - Kosi-Ghagra
  - Gandak-Ganga
  - Ghagra-Yamuna
  - Sarda-Yamuna
  - Yamuna-Rajasthan
  - Rajasthan-Sabarmati
  - Chunar-Sone Barrage
  - Sone dam-southern tributaries of Ganga
  - Ganga-Damodar-Subernarekha
  - Subernarekha- Mahanadi
  - Kosi-Mechi
  - Farakka-Sunderbans
  - Jogighopa-Tista-Farakka (alternative to ①)
- Water transfer link

## Peninsular component

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>● Mahanadi (Manibhadra)-Godavari (Dowlaiswaram)</li> <li>● Godavari (Inchampalli)-Krishna (Pulichintala)</li> <li>● Godavari (Inchampalli)-Krishna (Nagarjunasagar)</li> <li>● Godavari (Polavaram)-Krishna (Vijayawada)</li> <li>● Krishna (Almatti)-Pennar</li> <li>● Krishna (Srisailam)-Pennar</li> <li>● Krishna (Nagarjunasagar)-Pennar (Somasila)</li> <li>● Pennar (Somasila)-Cauvery (Grand Anicut)</li> </ul> | <ul style="list-style-type: none"> <li>● Cauvery (Kattalai)-Vaigai-Cundar</li> <li>● Ken-Betwa</li> <li>● Parbati-Kalisindh-Chambal</li> <li>● Par-Tapi-Narmada</li> <li>● Damanganga-Pinjal</li> <li>● Bedti-Varda</li> <li>● Netravati-Hemavati</li> <li>● Pamba-Achankovil-Valippar</li> </ul> |
|--|---|

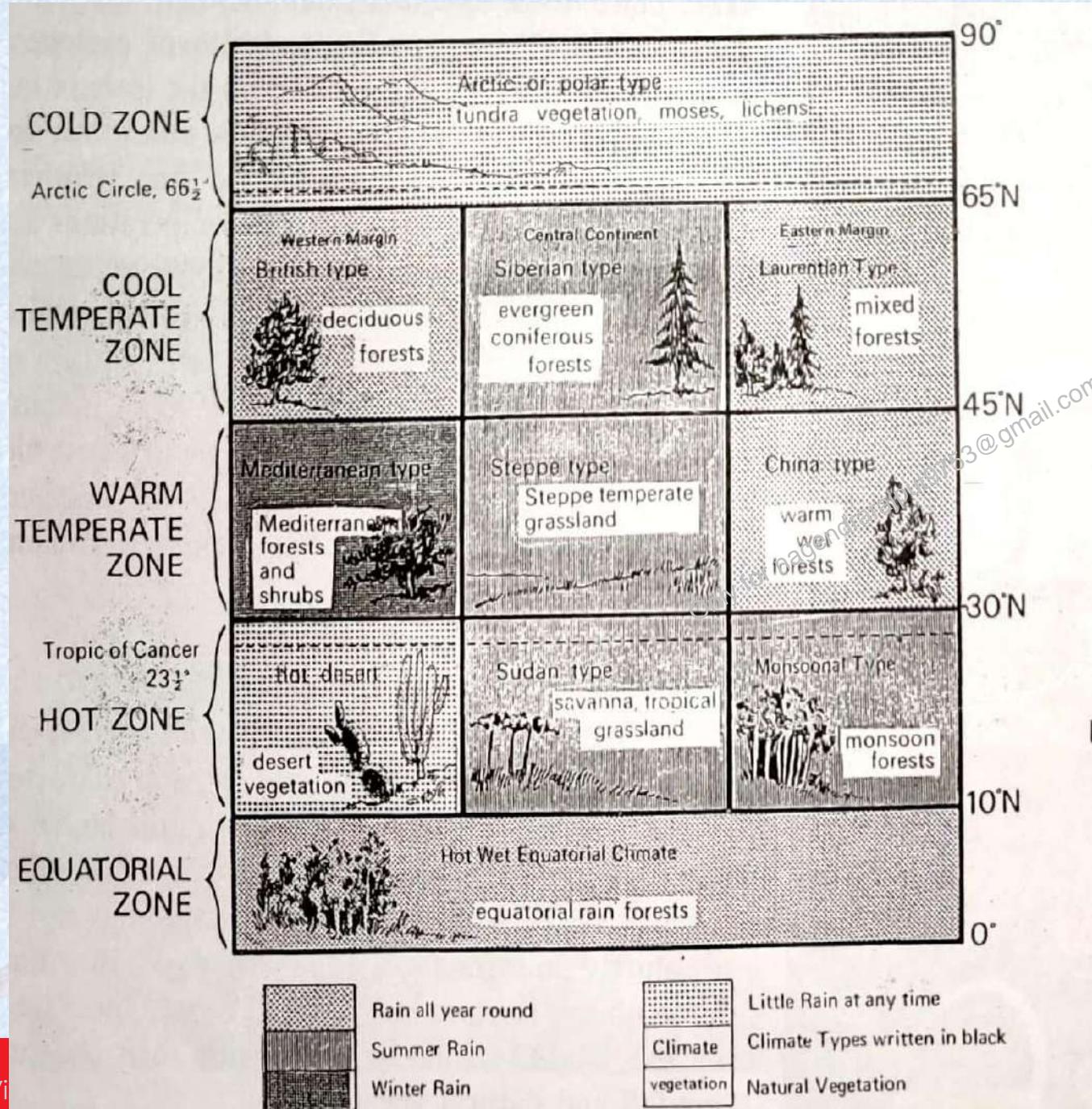
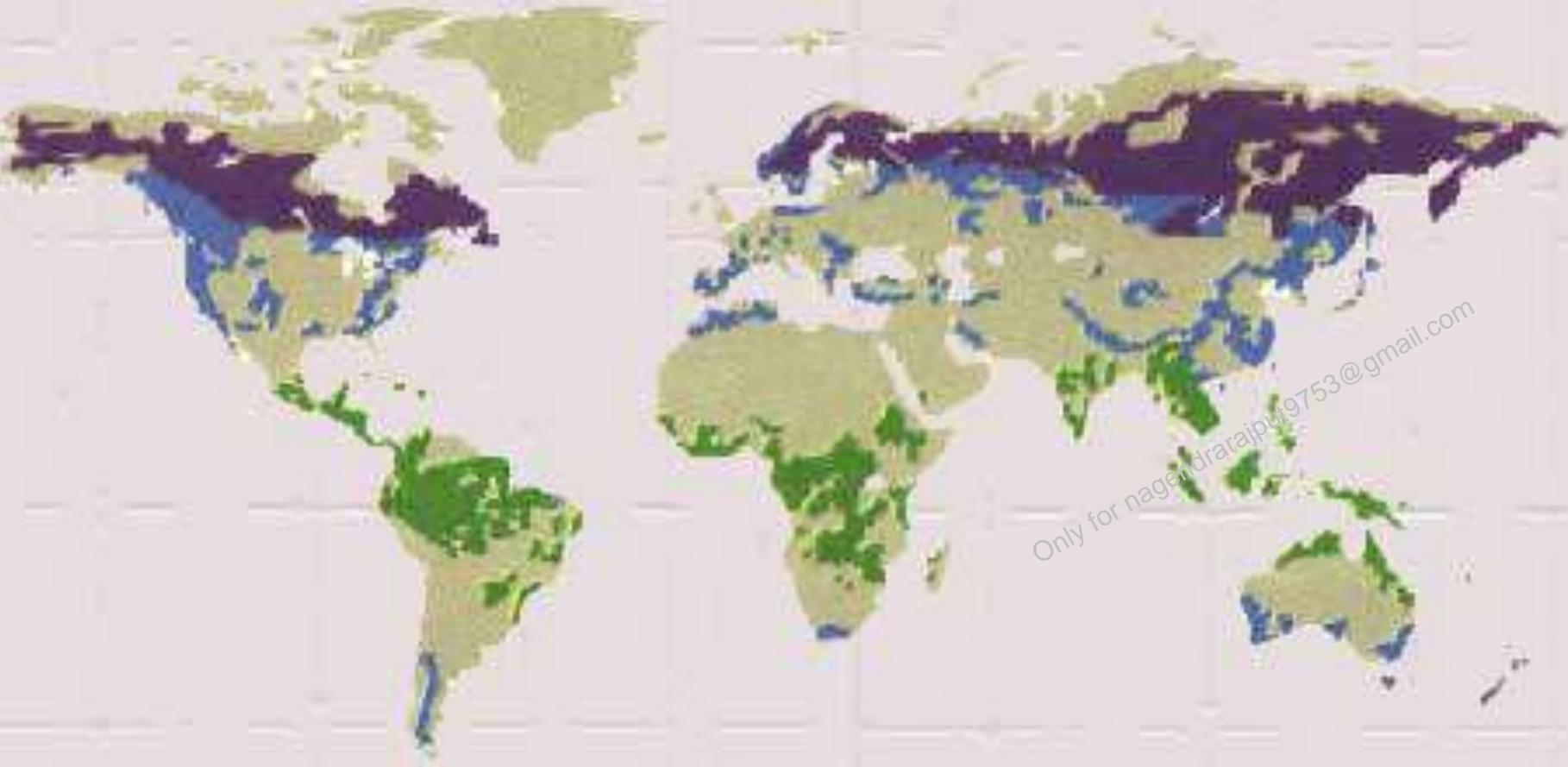


Fig. 120 Scheme of the world's climatic types (with seasonal rainfall and natural vegetation also indicated)

# WORLD CLIMATIC TYPES

Climatic Zone	Latitude (approximate)	Climatic Type	Rainfall Regime (with approx. total)	Natural Vegetation
Equatorial Zone	0° – 10°N. and S.	1. Hot, wet equatorial	Rainfall all year round: 80 inches	Equatorial rain forests
Hot Zone	10° – 30°N. and S.	2. (a) Tropical Monsoon (b) Tropical Marine 3. Sudan Type 4. Desert: (a) Saharan type (b) Mid-latitude type 5. Western Margin (Mediterranean type) 6. Central Continental (Steppe type) 7. Eastern Margin: (a) China type (b) Gulf type (c) Natal type	Heavy summer rain: 60 inches Much summer rain: 70 inches Rain mainly in summer: 30 inches Little rain : 5 inches Winter rain: 35 inches Light summer rain: 20 inches Heavier summer rain: 45 inches	Monsoon forests  Savanna (tropical grassland) Desert vegetation and scrub  Mediterranean forests and shrub  Steppe or temperate grassland Warm, wet forests and bamboo
Warm Temperate Zone	30° – 45°N. and S.	8. Western Margin (British type) 9. Central Continental (Siberian type) 10. Eastern Margin (Laurentian type)	More rain in autumn and winter: 30 inches Light summer rain: 25 inches Moderate summer rain: 40 inches	Deciduous forests  Evergreen coniferous forests Mixed forests (coniferous and deciduous)
Cool Temperate Zone	45° – 65°N. and S.	11. Arctic or Polar	Very light summer rain: 10 inches	Tundra, mosses, lichens
Cold Zone	65° – 90°N. and S.	12. Mountain climate	Heavy rainfall (variable)	Alpine pastures, conifers, fern, snow.
Alpine Zone				



## Where the forests are

- Boreal forest
- Temperate forest
- Tropical forest

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# Natural Vegetation of India

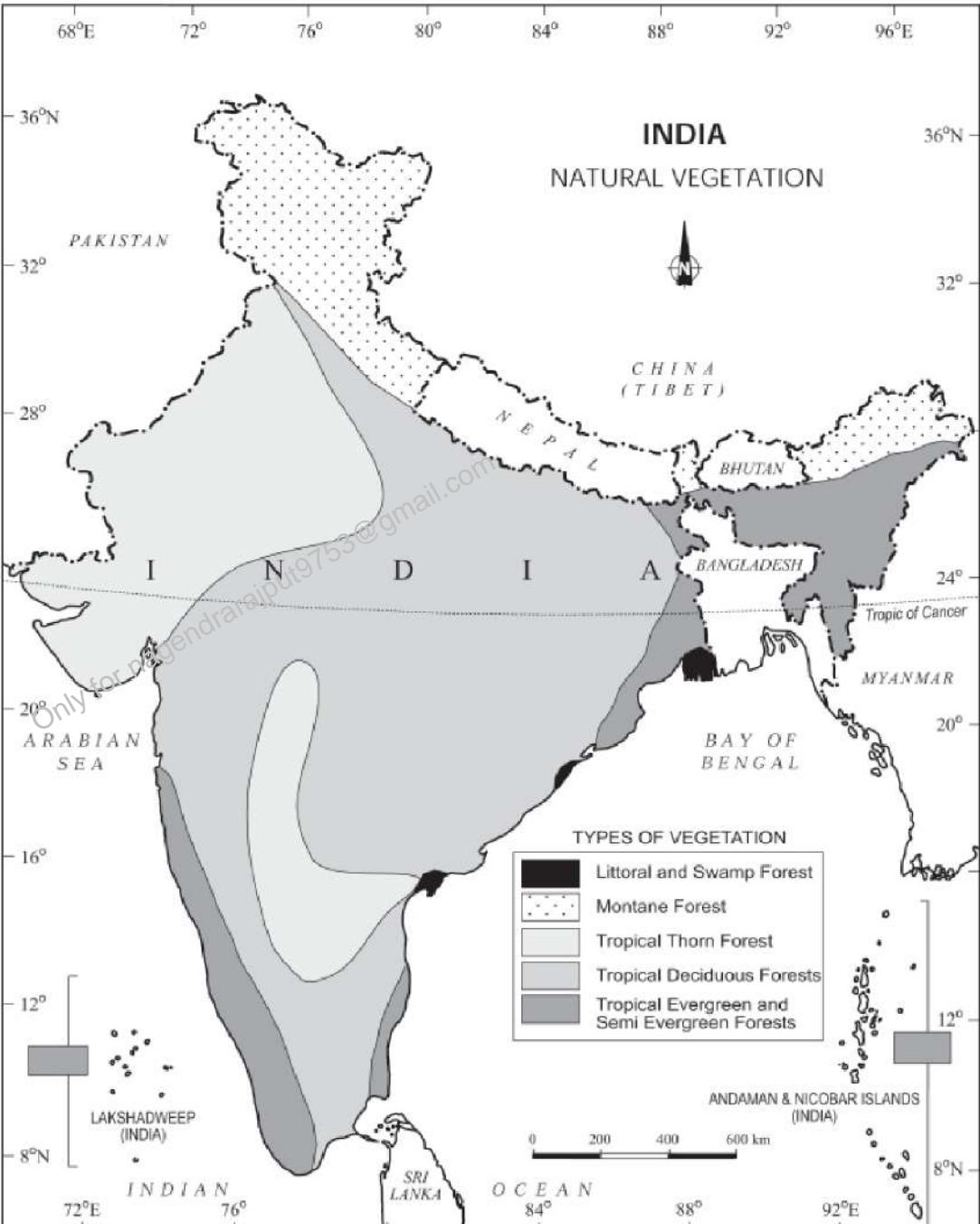
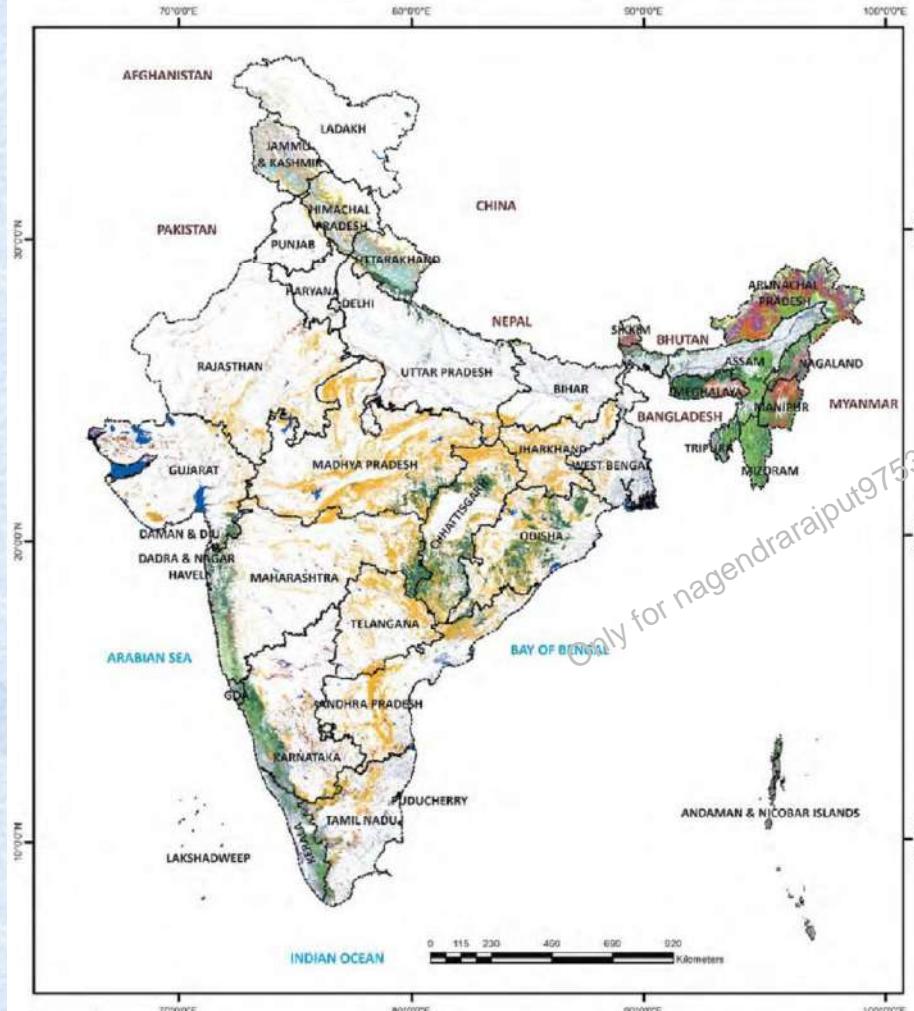


Figure 5.2 : Natural Vegetation



**FOREST TYPE MAPPING - 2019**  
(Showing Type Groups as per Champion & Seth's Classification,1968)



**Legend**

Group 1- Tropical Wet Evergreen Forests	Group 8- Subtropical Broadleaved Hill Forests	Group 15- Moist Alpine Scrub
Group 2- Tropical Semi-Evergreen Forests	Group 9- Subtropical Pine Forests	Group 16- Dry Alpine Scrub
Group 3- Tropical Moist Deciduous Forests	Group 10- Subtropical Dry Evergreen Forests	TOF/Plantation
Group 4- Litoral and Swamp Forests	Group 11- Montane Wet Temperate Forests	Water
Group 5- Tropical Dry Deciduous Forests	Group 12- Himalayan Moist Temperate Forests	Non Forest
Group 6- Tropical Thorn Forests	Group 13- Himalayan Dry Temperate Forests	
Group 7- Tropical Dry Evergreen Forests	Group 14- Sub Alpine Forests	

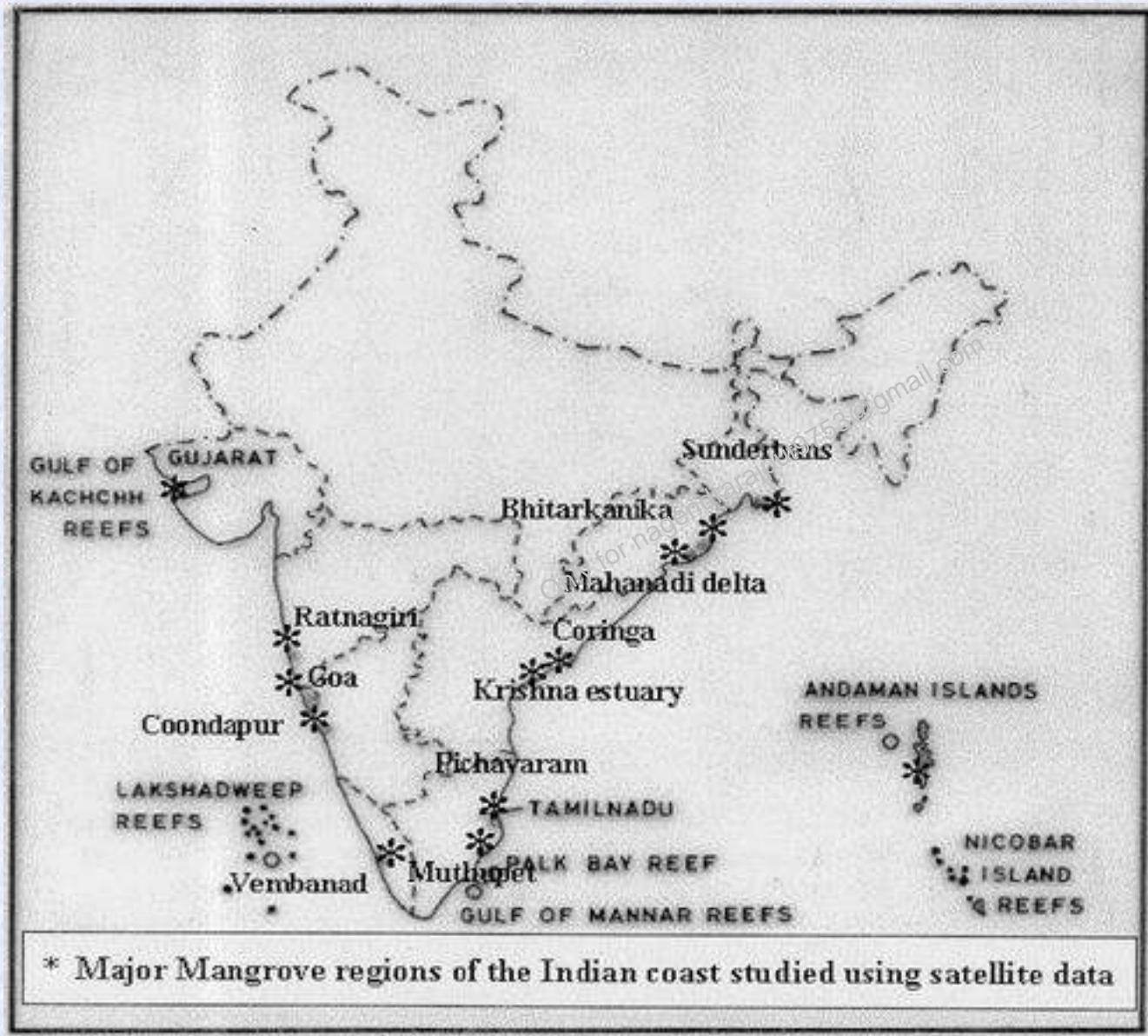


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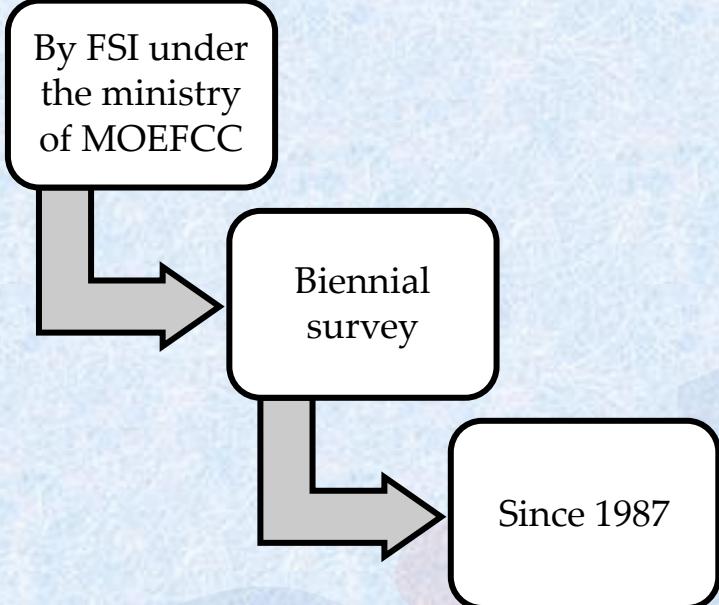


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# INDIA STATE OF FORESTS REPORT 2021



## Forest Cover

- All lands more than one hectare in area, with a tree canopy density of more than 10%

## Recorded Forest Area (RFA)

- Recorded as 'Forests' in government records.

## Tree Cover

- Outside recorded forest areas exclusive of forest cover and less than the minimum mappable area of one hectare.

## Carbon Stock

Table 2.2 Forest cover classified in terms of canopy density classes

Class	Description
Very Dense Forest	All lands with tree canopy density of 70 percent and above.
Moderately Dense Forest	All lands with tree canopy density of 40 percent and more but less than 70 percent.
Open Forest	All lands with tree canopy density of 10 percent and more but less than 40 percent.
Scrub	Degraded forest lands with canopy density less than 10 percent.
Non-forest	Lands not included in any of the above classes. (includes water)



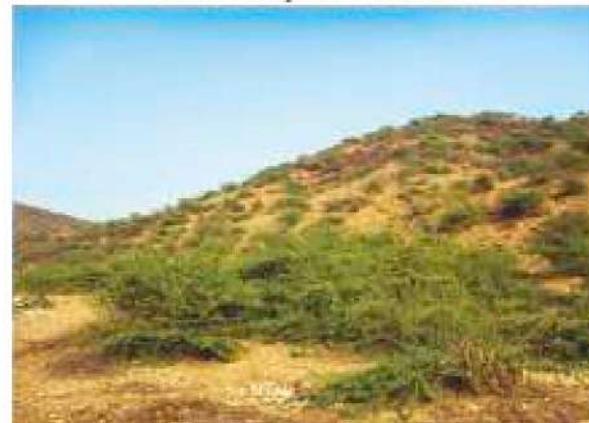
Very Dense Forest



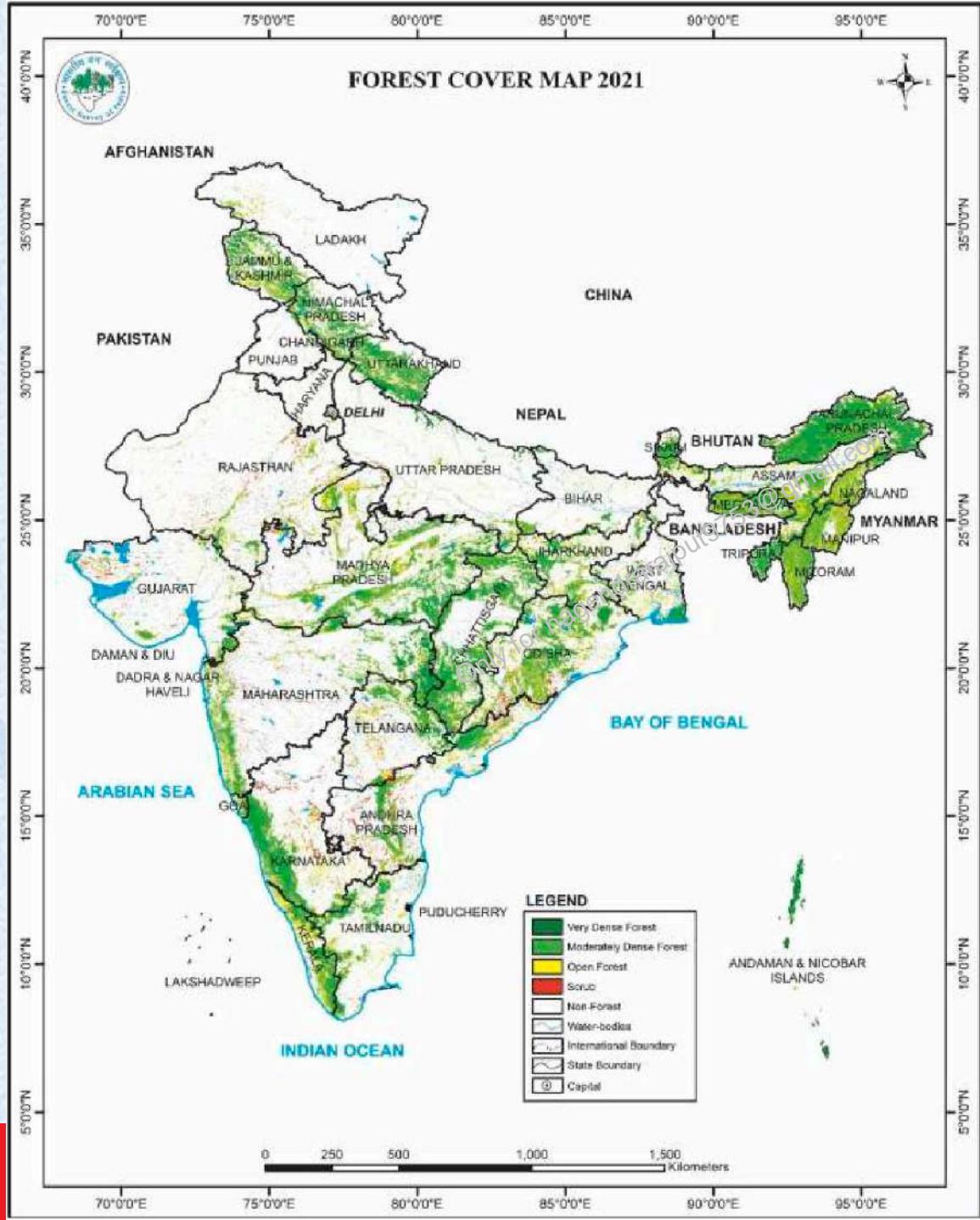
Moderately Dense Forest

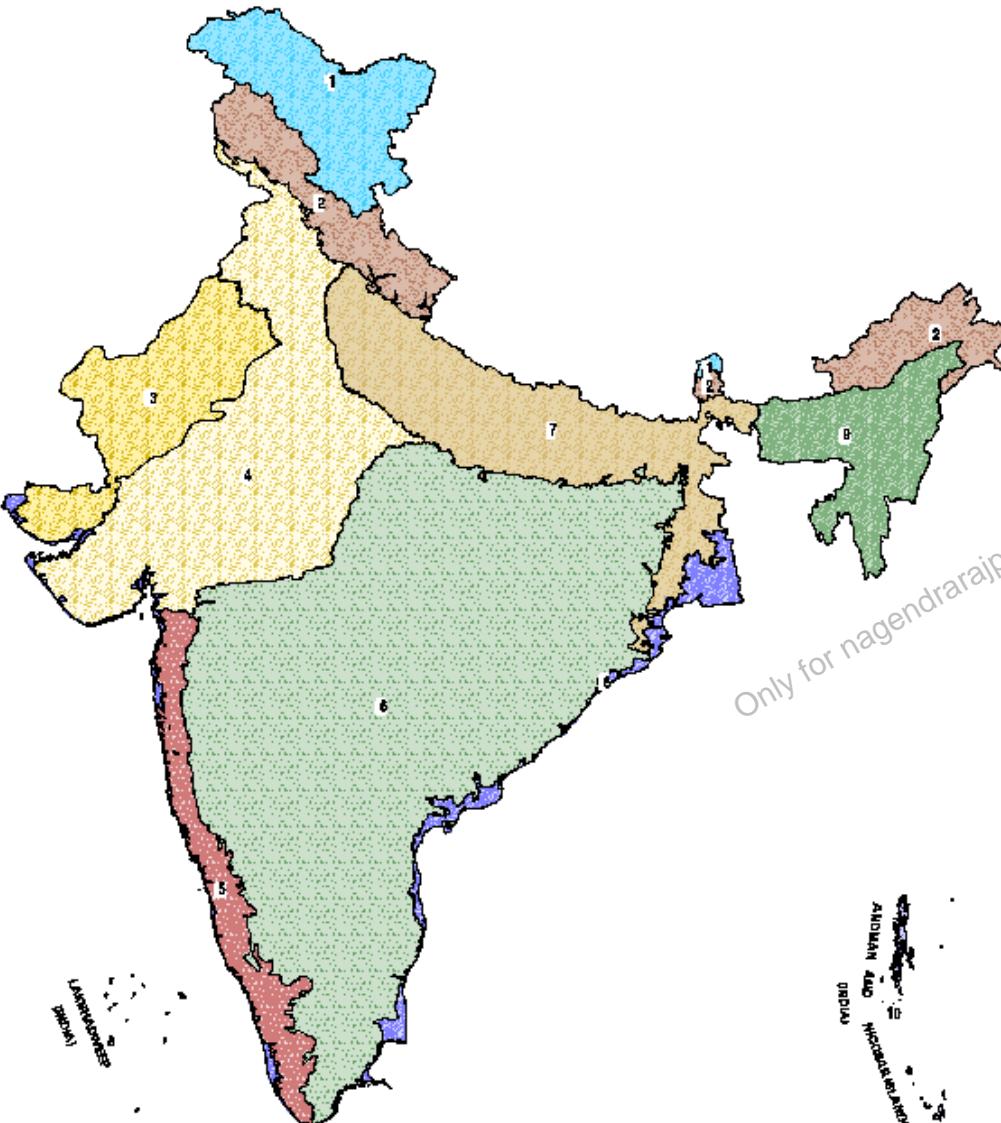


Open Forest



Scrub





Based Upon Survey of India Map  
with the permission of the Surveyor General of India

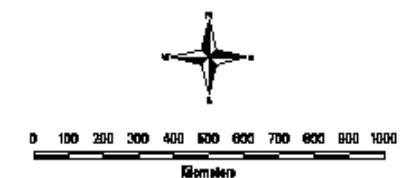
Government of India Copyright 1998

The territorial waters of India extend into the sea to a distance of  
twelve nautical miles measured from the appropriate base line

**Fig. 3 Biogeographic Classification of India : Zones**

	%*
1: Trans-Himalaya	5.6
2: Himalaya	6.4
3: Desert	6.6
4: Semi-Arid	18.6
5: Western Ghats	4.0
6: Deccan Peninsula	42.0
7: Gangetic Plain	10.8
8: Coasts	2.5
9: North-East	5.2
10: Islands	0.3

\* Represents percentage of the total geographical area of India : 3287283 sq.km



भारतीय वन्यजीव संस्थान  
Wildlife Institute of India  
GIS Cell, March 2000

Sources : Rodrigues, Patwari & Modisur (2000)

# World Agriculture Regions

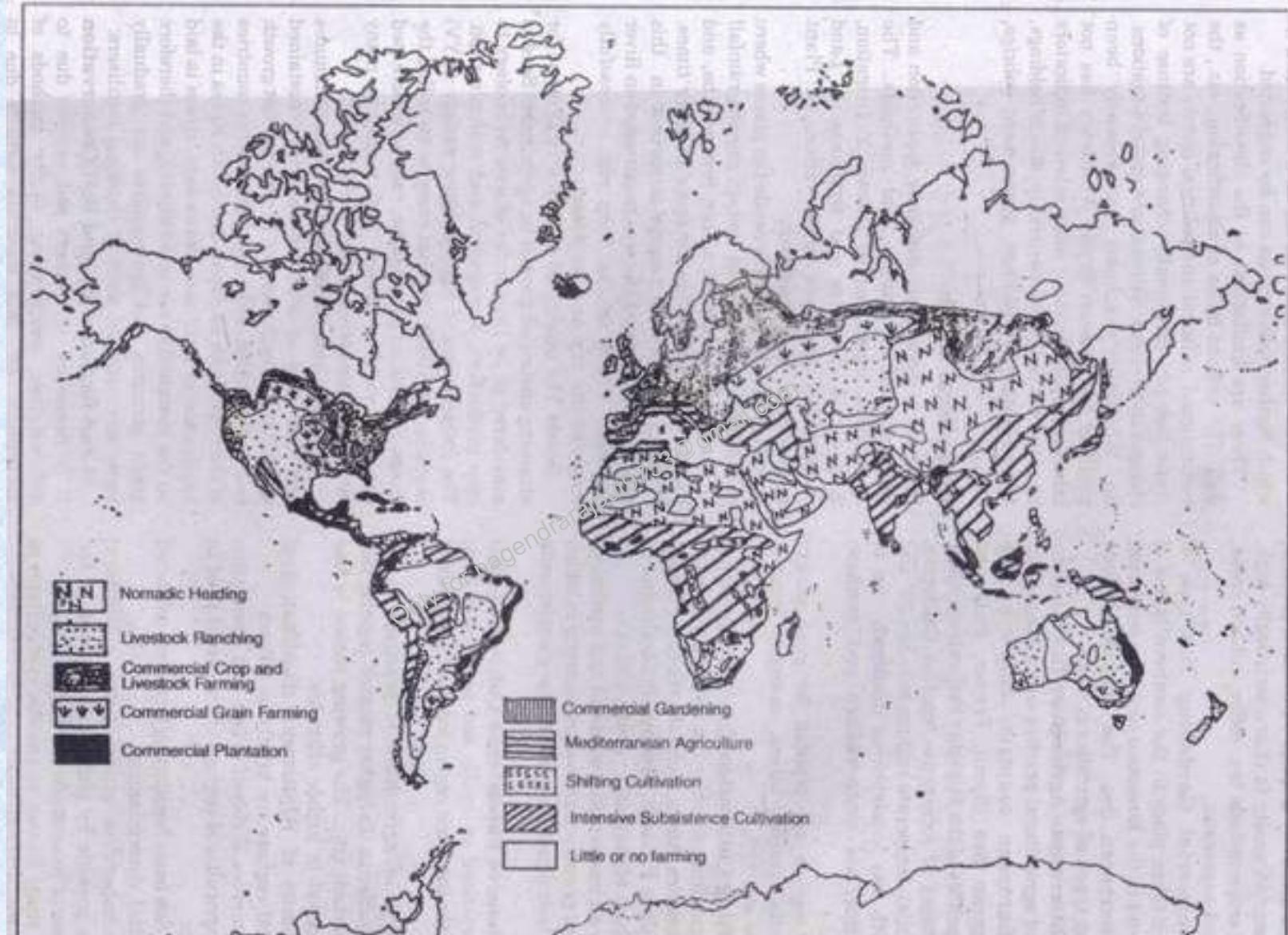
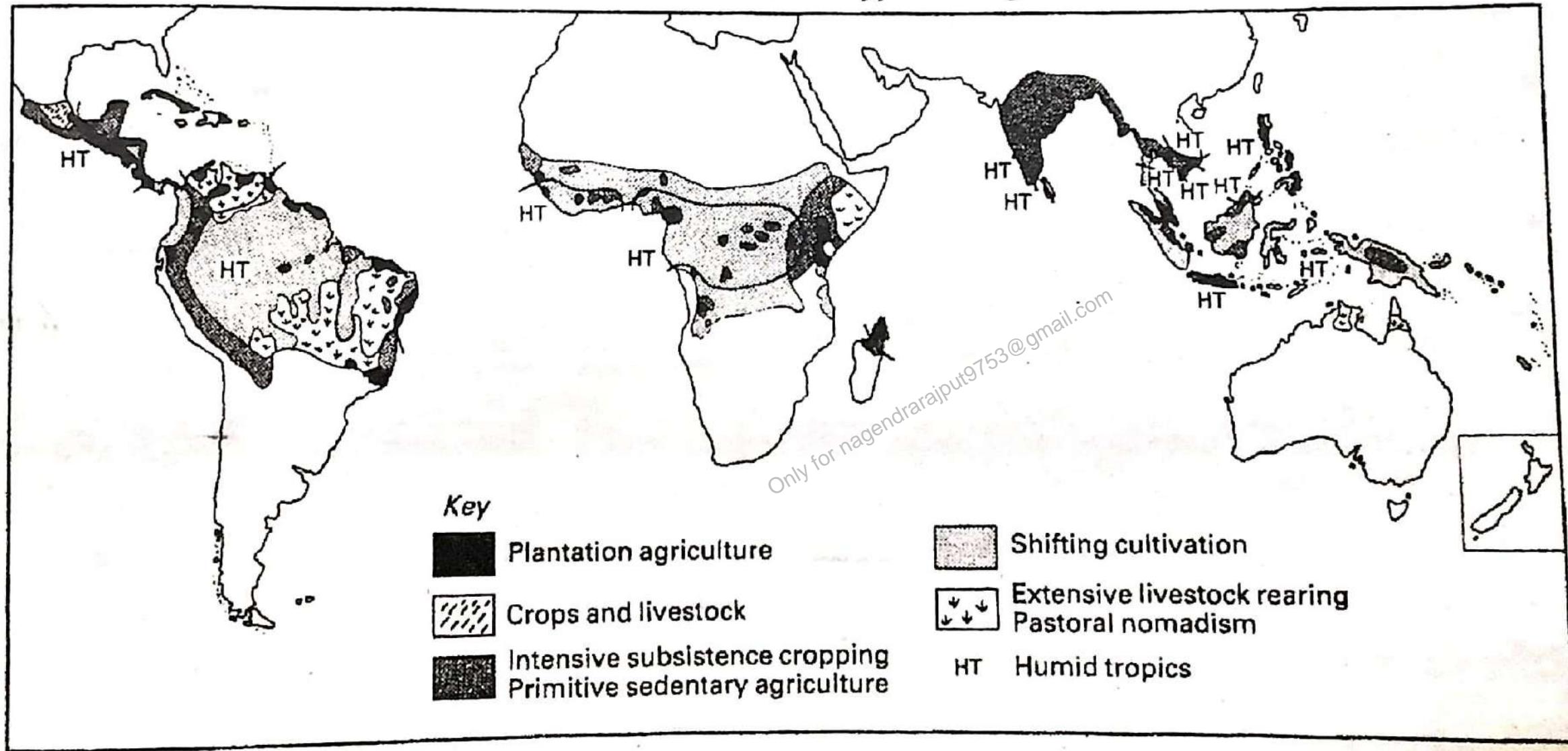
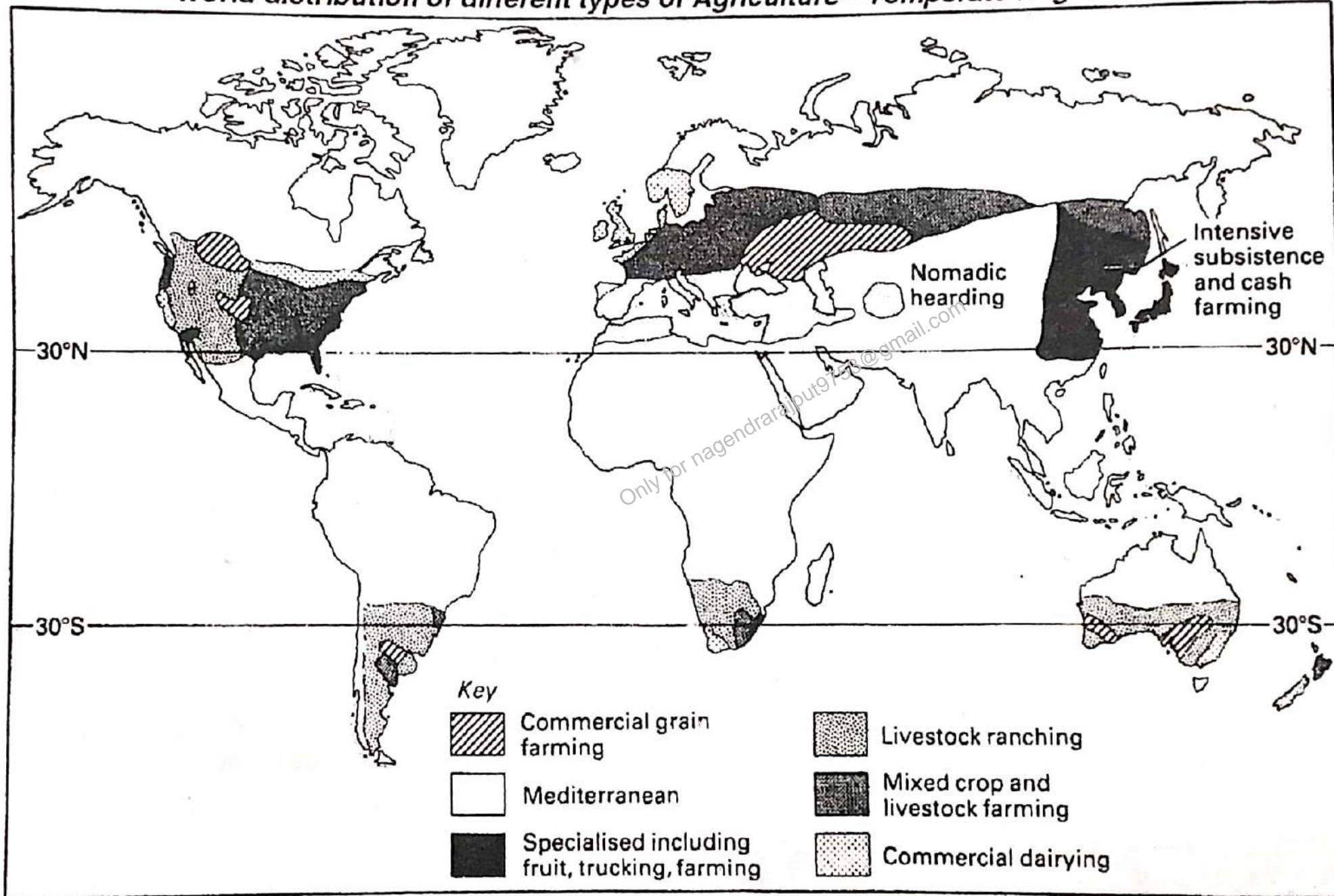


Fig. 10.19 Map Showing Whittlesey's agricultural regions.

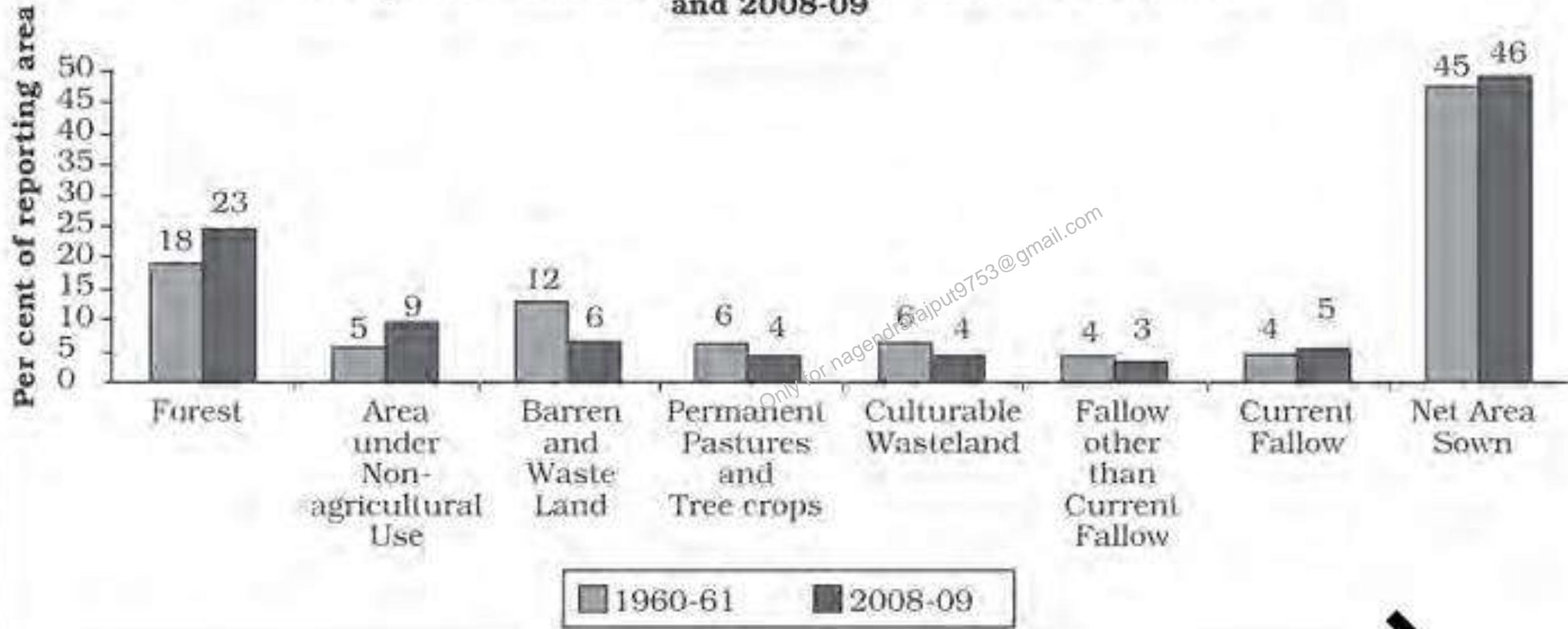
## *World distribution of different types of Agriculture—Humid Tropics*



## *World distribution of different types of Agriculture—Temperate Region*



### Changes in Shares of Land-use Categories in India : 1960-61 and 2008-09



From a  
grain deficient nation  
to **food security** for all



## Green Revolution



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AGRICULTURAL SEASONS			
	Kharif	Rabi	Zaid
1. Sowing Season	June-July	October-November	Aug.-Sept. (Zaid Kharif) Feb.-March (Zaid Rabi)
2. Harvesting Season	September-October	March-April	Dec.-Jan. (Zaid Kharif) April-May (Zaid Rabi)
3. Crops	Rice, maize, jowar, bajra, ragi, sugarcane pulses, cotton, jute.	Wheat, barley gram, linsseed, mustard, potatoes.	Oilseeds (Zaid Kharif) Jowar, maize, summer vegetables and fruits. (Zaid Rabi)

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MAIN CROPS IN INDIA			
<b>Cereals</b> wheat, rice, jowar, gram, bajra, ragi, pulses.	<b>Plantations</b> coffee, rubber, tea.	<b>Cash Crops</b> sugarcane, tobacco.	
<b>Oilseeds</b> linseed, groundnut, sesame, sunflower, rapeseed, mustardseed.		<b>Spices</b> pepper, ginger, turmeric, chillies, cloves, saffron.	<b>Fibre Crops</b> cotton, jute.

Crops	Temperature	Rainfall	Soil	Leading Producers
<b>1. Rice</b>	Not above 35°C	150-300 cm	Clayey or loamy	West Bengal, Uttar Pradesh, Andhra Pradesh, Punjab, Tamil Nadu.
<b>2. Wheat</b>	10°–15°C (sowing) 21°–26°C (harvest)	80 cm	Well drained loams, and clay loams	Punjab, Haryana, Uttar Pradesh, Rajasthan, Madhya Pradesh.
<b>3. Millets</b>				
(a) Jowar	Not below 16°C	<100 cm	Variety of soils, including clayey, sandy	Maharashtra, Madhya Pradesh, Karnataka, Andhra Pradesh and Telangana.
(b) Bajra	25°–30°C	40–50 cm	Sandy loams, black and red soils	Rajasthan, Uttar Pradesh, Gujarat, Maharashtra, Haryana.
(c) Ragi	20°–30°C	50–100 cm	Red, light black and sandy loams	Karnataka, Tamil Nadu, Uttarakhand, Maharashtra and Andhra Pradesh.
<b>4. Pulses</b>	20°–25°C	50–75 cm	Dry, light soil	Madhya Pradesh, Maharashtra, Uttar Pradesh, Rajasthan and Andhra Pradesh.

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<b>Crop</b>	<b>Temperature</b>	<b>Rainfall</b>	<b>Soil</b>	<b>Leading States</b>
<b>Sugarcane</b>	20°C-26°C	100–150 cm or irrigation facilities with high humidity.	Well-drained rich alluvial, heavy loam or lava soil.	UP, Maharashtra, Tamil Nadu (highest yield hectare), Karnataka, Andhra Pradesh.
<b>Cotton</b>	21°C-30°C but not below 21°C. 200 frost free days	50-75 cm or irrigation facility.	Deep black soil (regur), alluvial soils and laterite soil.	Gujarat, Andhra Pradesh, Maharashtra and Punjab.
<b>Jute</b>	24°C-35°C	Heavy rainfall of 150 cm with 90 per cent of relative humidity.	Light sandy or clayey loams.	West Bengal (70 per cent of the production, over 60 per cent of the area), Bihar, Assam, Odisha.

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Crop	Temperature	Rainfall	Soil	Leading States
<b>Groundnut</b>	20°C to 25°C	50 to 100 cm	Sandy loams, loams and well-drained soils.	Gujarat, Telangana and Tamil Nadu.
<b>Mustard and Rapeseed</b>	10°C to 20°C	25 to 40 cm	Loams. Heavier loams (for mustard). Light loams (for rapeseed).	Uttar Pradesh, Rajasthan, Punjab, Madhya Pradesh and Haryana.
<b>Soyabean</b>	13°C to 24°C	40 to 60 cm	Friable loamy, acidic soils.	Madhya Pradesh, Rajasthan and Maharashtra.
<b>Sunflower</b>	26°C to 30°C	Less than 50 cm	Well-drained loamy soils.	Bihar, Maharashtra, Andhra Pradesh and Karnataka.
<b>Sesamum</b>	21°C	40 to 60 cm	Well-drained light loamy soil and black cotton soil.	Uttar Pradesh, Rajasthan, Maharashtra, Madhya Pradesh, Odisha, Gujarat, Karnataka, Andhra Pradesh, Telangana and Tamil Nadu.
<b>Cotton Seeds</b>	21°C to 30°C	50 to 75 cm	Black soils.	Gujarat, Andhra Pradesh, Telangana, Maharashtra and Punjab.
<b>Linseed</b>	15°C to 20°C	45 to 75 cm	Alluvial soils, clayey loamy soils and deep black soils.	Madhya Pradesh and Uttar Pradesh.
<b>Castor Seeds</b>	20°C to 25°C	50 to 75 cm	Red sandy loams in Peninsular India and light alluvial soils in the Plains.	Gujarat, Andhra Pradesh, Telangana and Rajasthan.

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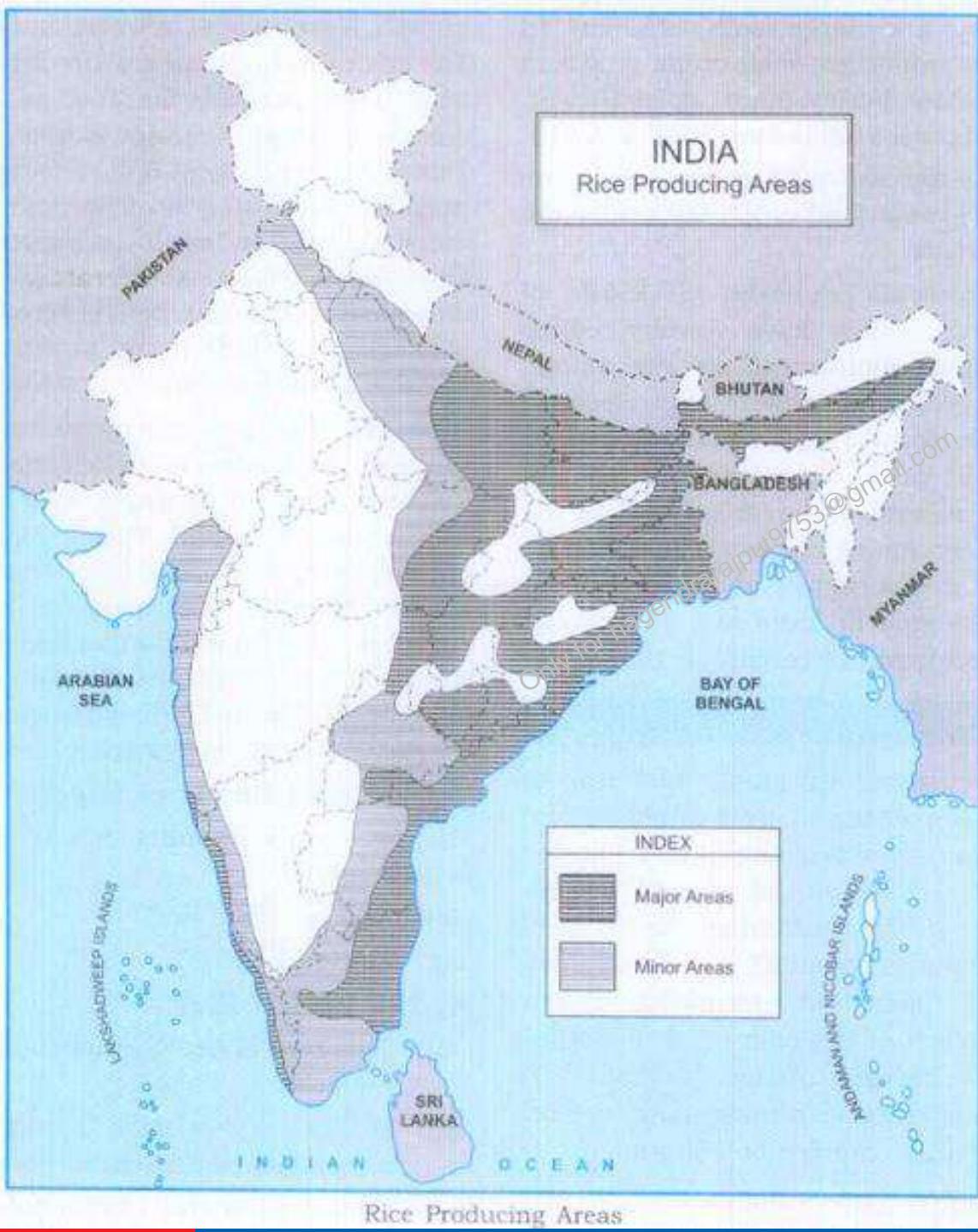
### Important Cash Crops of India

Crops	Temperature*	Rainfall	Soil	Distribution
<b>Tea</b>	24°C-30°C	at least 150cm	forest soil; rich in humus and iron.	<ul style="list-style-type: none"> <li>1. Assam: the Brahmaputra valley, Surma valley</li> <li>2. West Bengal: the Duars, Darjeeling</li> <li>3. Tamil Nadu: highest yield per hectare</li> <li>4. Kerala</li> </ul>
<b>Coffee</b>	15°C-28°C but does not tolerate frost or heat	150-200 cm	well drained, friable loamy soil, rich in vegetable mould.	<ul style="list-style-type: none"> <li>1. Karnataka 70.4 % of total production;</li> <li>2. Kerala 21.7 % of total production; and</li> <li>3. Tamil Nadu 5.8 % of total production.</li> </ul>
<b>Rubber</b>	25°C-35°C	152-200 cm	rich well drained alluvial or laterite soils.	<ul style="list-style-type: none"> <li>1. Kerala: Kottayam, Ernakulum, Kozhikode and Kollam.</li> <li>2. Tamil Nadu</li> <li>3. Karnataka</li> </ul>

<b>Soil</b>	<b>Formation</b>	<b>Areas</b>	<b>Characteristics</b>	<b>Crops</b>
<b>Alluvial Soil</b>	Deposition of sediments by rivers.	Inland alluvium in Punjab, Haryana, U.P., Bihar, West Bengal, parts of Gujarat and Rajasthan.  Deltaic alluvium in the deltas of Ganga-Brahmaputra, Mahanadi, Godavari, Krishna and Kaveri.  Coastal alluvium along the coastal strips of the Peninsula.	Loamy.  Coarse and dry in upper reaches of the river and gets finer and moist as the river flows down.  Rich in minerals especially Potash and Lime.  Poor in Nitrogen and Humus.	Large variety of Rabi and Kharif crops; rice, wheat, sugarcane, cotton, gram and oilseeds; jute in Ganga-Brahmaputra delta.
<b>Black Soil</b>	Residual soils formed by weathering of lava rocks.	Deccan lava tract.  Maharashtra, Madhya Pradesh, Gujarat, Andhra Pradesh, Karnataka, Rajasthan, Uttar Pradesh and parts of Tamil Nadu.	Clayey.  Black in colour.  Rich in lime, Magnesium.  Poor in Phosphorous, Nitrogen and Organic matter.  Very fertile.	Cotton, cereals, oilseeds, citrus fruits and vegetables, tobacco, and sugarcane.
<b>Red Soil</b>	Prolonged weathering of crystalline rocks.  Differs on the basis of parent rock material and climatic conditions.	Plateau region of Peninsular India extending northwards along Konkan coast.  Tamil Nadu, Karnataka, Andhra Pradesh, South-East Maharashtra, Chhattisgarh, parts of Odisha, Jharkhand, Bundelkhand, Meghalaya, Mizoram, Manipur, Telangana and Nagaland.	Loamy or Sandy.  Red in colour due to large amounts of iron-oxides  Deep and fertile in lowland; thin and poor in highlands.  Poor in Nitrogen, Phosphorus, Potassium and Organic matter.	Vegetables, rice, ragi, tobacco, groundnut and potatoes.
<b>Laterite Soil</b>	Due to leaching in areas of heavy rain.	Highland areas of Peninsular plateau. Patches in Madhya Pradesh, Odisha, Maharashtra, West Bengal, Andhra Pradesh, Telangana, Karnataka, Kerala, and Tamil Nadu.	Coarse and porous.  Red due to Iron Oxide.  Poor in Lime, Nitrogen and Magnesium.  High acidity and low moisture retention.	Tapioca, cashewnuts.  With manure ragi, rice, sugarcane, tea, rubber and coffee.

Crops	Temperature	Rainfall	Soil	Leading Producers
<b>1. Rice</b>	Not above 35°C	150-300 cm	Clayey or loamy	West Bengal, Uttar Pradesh, Andhra Pradesh, Punjab, Tamil Nadu.
<b>2. Wheat</b>	10°–15°C (sowing) 21°–26°C (harvest)	80 cm	Well drained loams, and clay loams	Punjab, Haryana, Uttar Pradesh, Rajasthan, Madhya Pradesh.
<b>3. Millets</b>				
(a) Jowar	Not below 16°C	<100 cm	Variety of soils, including clayey, sandy	Maharashtra, Madhya Pradesh, Karnataka, Andhra Pradesh and Telangana.
(b) Bajra	25°–30°C	40–50 cm	Sandy loams, black and red soils	Rajasthan, Uttar Pradesh, Gujarat, Maharashtra, Haryana.
(c) Ragi	20°–30°C	50–100 cm	Red, light black and sandy loams	Karnataka, Tamil Nadu, Uttarakhand, Maharashtra and Andhra Pradesh.
<b>4. Pulses</b>	20°–25°C	50–75 cm	Dry, light soil	Madhya Pradesh, Maharashtra, Uttar Pradesh, Rajasthan and Andhra Pradesh.

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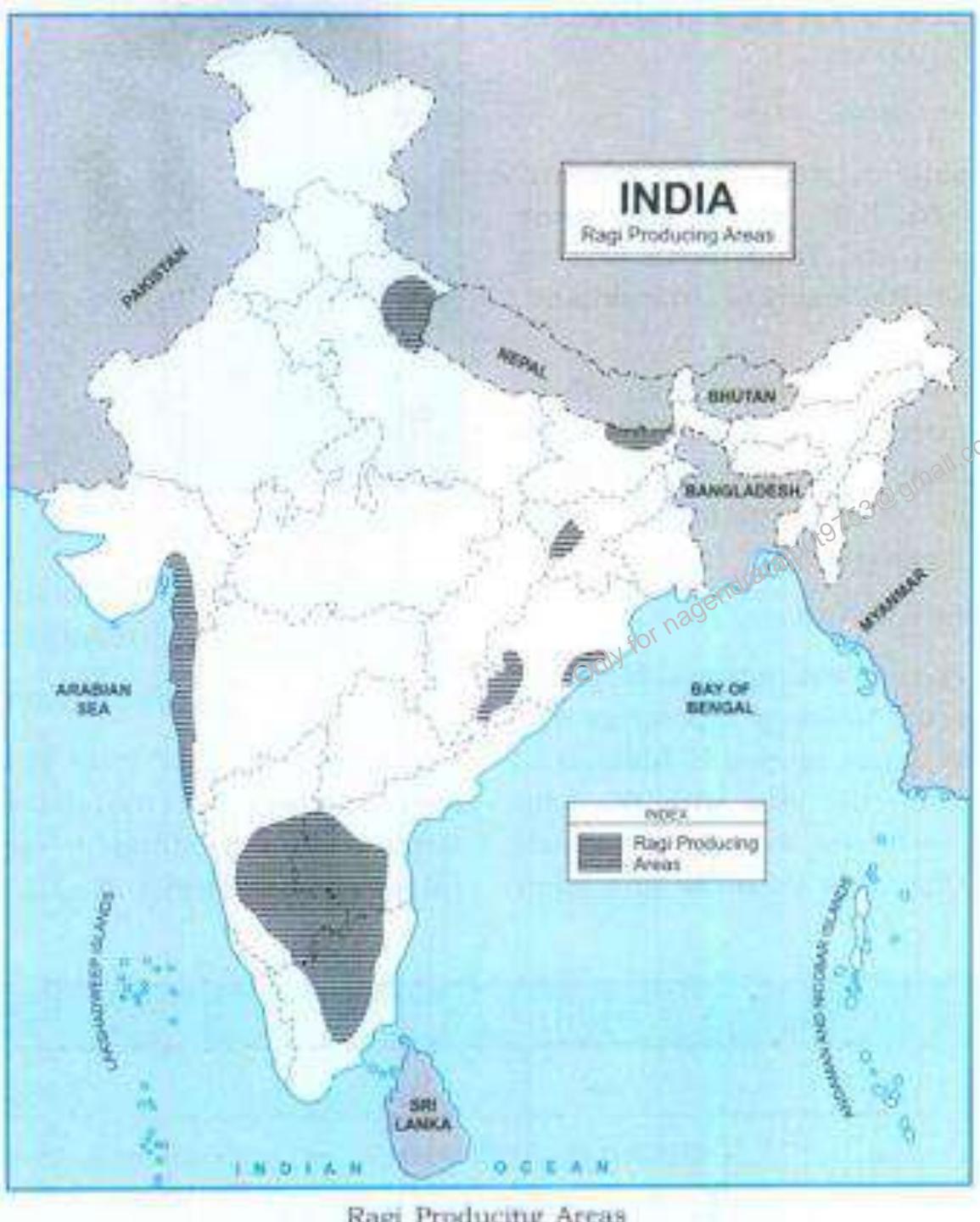






Jowar Producing Areas





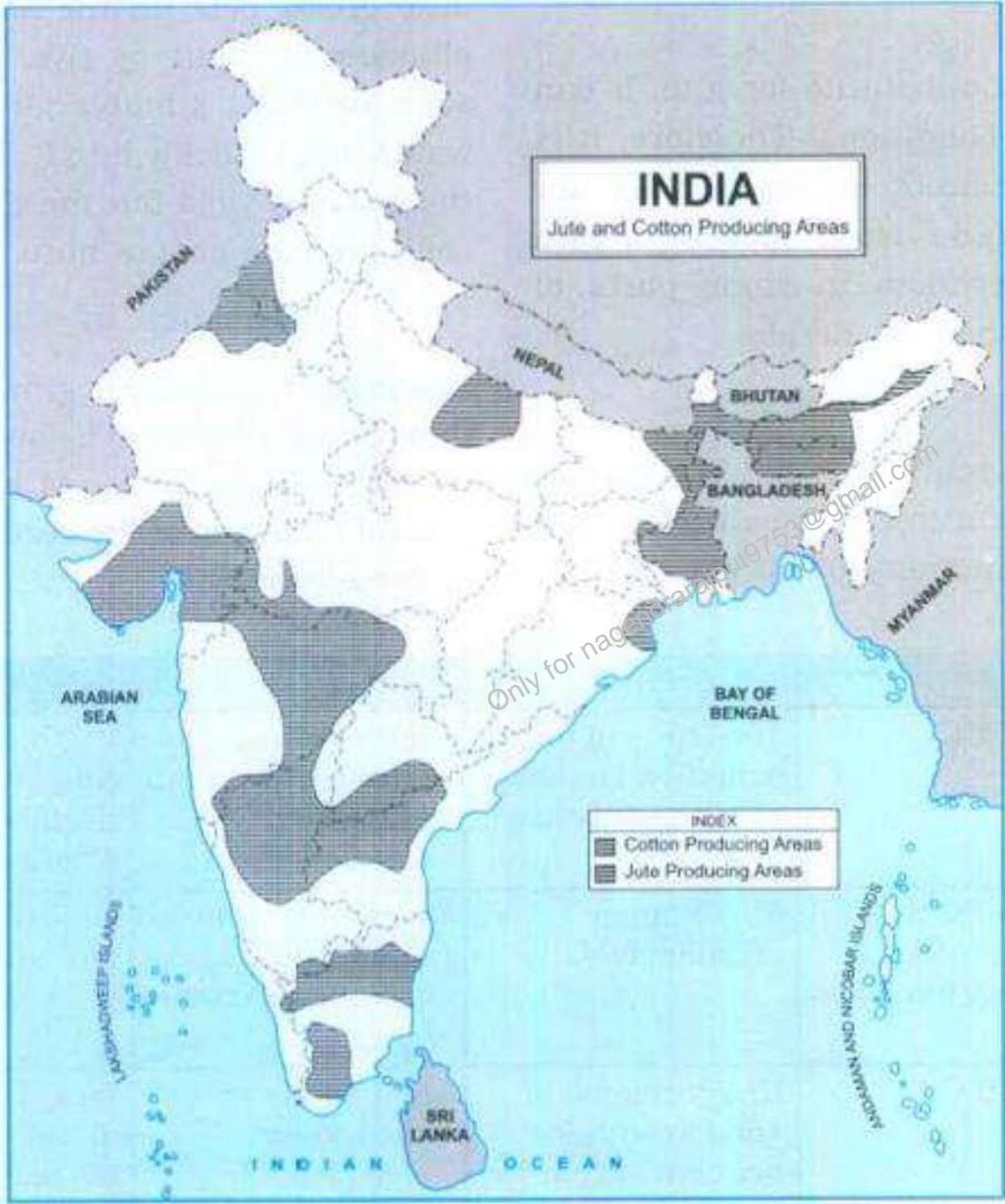
Crop	Temperature	Rainfall	Soil	Leading States
Sugarcane	20°C-26°C	100–150 cm or irrigation facilities with high humidity.	Well-drained rich alluvial, heavy loam or lava soil.	UP, Maharashtra, Tamil Nadu (highest yield hectare), Karnataka, Andhra Pradesh.
Cotton	21°C-30°C but not below 21°C. 200 frost free days	50-75 cm or irrigation facility.	Deep black soil (gur), alluvial soils and laterite soil.	Gujarat, Andhra Pradesh, Maharashtra and Punjab.
Jute	24°C-35°C	Heavy rainfall of 150 cm with 90 per cent of relative humidity.	Light sandy or clayey loams.	West Bengal (70 per cent of the production, over 60 per cent of the area), Bihar, Assam, Odisha.

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IAS  
EXAMINATION



Sugarcane Producing Areas



Cotton and Jute Producing Areas

Rajesh

## Under MSP

- Groundnut
- Soyabean
- Sunflower
- Safflower
  
- Mustard/Rapeseed
- Toria (very similar to mustard)
- Sesamum/ Sesum (till)
- Nigerseed (Ramtil)

Crop	Temperature	Rainfall	Soil	Leading States
<b>Groundnut</b>	20°C to 25°C	50 to 100 cm	Sandy loams, loams and well-drained soils.	Gujarat, Telangana and Tamil Nadu.
<b>Mustard and Rapeseed</b>	10°C to 20°C	25 to 40 cm	Loams. Heavier loams (for mustard). Light loams (for rapeseed).	Uttar Pradesh, Rajasthan, Punjab, Madhya Pradesh and Haryana.
<b>Soyabean</b>	13°C to 24°C	40 to 60 cm	Friable loamy, acidic soils.	Madhya Pradesh, Rajasthan and Maharashtra.
<b>Sunflower</b>	26°C to 30°C	Less than 50 cm	Well-drained loamy soils.	Bihar, Maharashtra, Andhra Pradesh and Karnataka.
<b>Sesamum</b>	21°C	40 to 60 cm	Well-drained light loamy soil and black cotton soil.	Uttar Pradesh, Rajasthan, Maharashtra, Madhya Pradesh, Odisha, Gujarat, Karnataka, Andhra Pradesh, Telangana and Tamil Nadu.
<b>Cotton Seeds</b>	21°C to 30°C	50 to 75 cm	Black soils.	Gujarat, Andhra Pradesh, Telangana, Maharashtra and Punjab.
<b>Linseed</b>	15°C to 20°C	45 to 75 cm	Alluvial soils, clayey loamy soils and deep black soils.	Madhya Pradesh and Uttar Pradesh.
<b>Castor Seeds</b>	20°C to 25°C	50 to 75 cm	Red sandy loams in Peninsular India and light alluvial soils in the Plains.	Gujarat, Andhra Pradesh, Telangana and Rajasthan.

### Important Cash Crops of India

Crops	Temperature*	Rainfall	Soil	Distribution
<b>Tea</b>	24°C-30°C	at least 150cm	forest soil; rich in humus and iron.	<ul style="list-style-type: none"> <li>1. Assam: the Brahmaputra valley, Surma valley</li> <li>2. West Bengal: the Duars, Darjeeling</li> <li>3. Tamil Nadu: highest yield per hectare</li> <li>4. Kerala</li> </ul>
<b>Coffee</b>	15°C-28°C but does not tolerate frost or heat	150-200 cm	well drained, friable loamy soil, rich in vegetable mould.	<ul style="list-style-type: none"> <li>1. Karnataka 70.4 % of total production;</li> <li>2. Kerala 21.7 % of total production; and</li> <li>3. Tamil Nadu 5.8 % of total production.</li> </ul>
<b>Rubber</b>	25°C-35°C	152-200 cm	rich well drained alluvial or laterite soils.	<ul style="list-style-type: none"> <li>1. Kerala: Kottayam, Ernakulum, Kozhikode and Kollam.</li> <li>2. Tamil Nadu</li> <li>3. Karnataka</li> </ul>







**Chickpeas/Garbanzo beans**  
Safed chana



**Brown Chickpeas**  
Kala chana



**Split Chickpeas (brown)**  
Chana Dal



**Gram/**  
**Bengal gram**



**Split Pigeon Peas**  
Toor Dal



**Black Gram Lentils**  
**Sabut (whole) Urad**



**Split and dehusked black gram lentils**  
**Urad Dal**



**Under MSP:**  
**Gram, Arhar, Urad, Moong, Lentil**

**Indian Brown Lentils**  
**Sabut Masoor**



**Red/Orange/Pink Lentils**  
**Split and dehusked Brown Lentils**  
**Masoor Dal**



**Mung Beans/Green Gram**  
**Hare Mung**



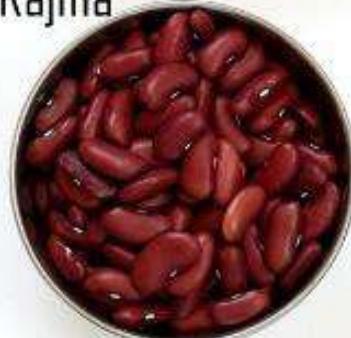
**Petite Yellow Lentils**  
**Split and dehusked Mung Beans**  
**Mung Dal**



**Also as just  
“Lentil”**

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**Kidney Beans**  
**Rajma**



**Black Eyed Peas**  
**Raungi/Lobhia**



**Cowpea**

**Horsegram**



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# MILLETS OF INDIA



Amaranth	राजगीरा
Barnyard	सनवा
Buckwheat	कुट्टा
Finger millet	रागी
Foxtail millet	कांगनी
Kodu	कोड़ों
Little millet	सामा
Pearl millet	बाजरा
Proso millet	चेना
Sorghum	जवार

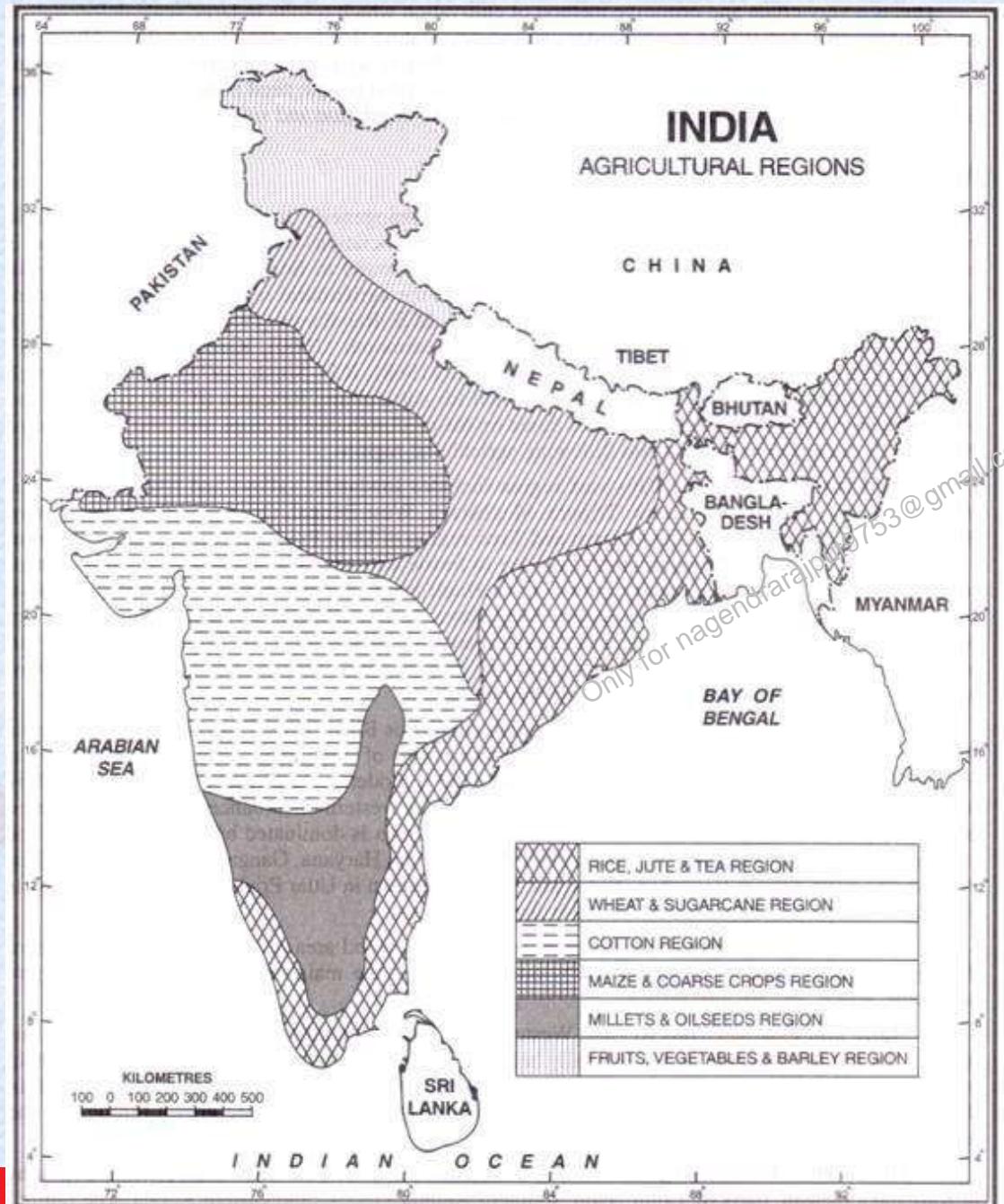


FIG. 22.1. India : Agricultural Regions

67.	Agriculture	2012	<p>Consider the following crops of India:</p> <ol style="list-style-type: none"> <li>1. Cowpea</li> <li>2. Green gram</li> <li>3. Pigeon pea</li> </ol> <p>Which of the above is/are used as pulse, fodder and green manure?</p> <p>(a) 1 and 2 only      (b) 2 only      (c) 1 and 3 only      (d) 1, 2 and 3</p>
68.	Agriculture	2013	<p>Consider the following crops:</p> <ol style="list-style-type: none"> <li>1. Cotton</li> <li>2. Groundnut</li> <li>3. Rice</li> <li>4. Wheat</li> </ol> <p>Which of these are Kharif crops?</p> <p>(a) 1 and 4      (b) 2 and 3 only      (c) 1, 2 and 3      (d) 2, 3 and 4</p>

66.	Agriculture	2012	<p>Consider the following crops of India:</p> <p>1. Groundnut 2. Sesamum 3. Pearl millet</p> <p>Which of the above is/are predominantly rainfed crop/ crops?</p> <p>(a) 1 and 2 only    (b) 2 and 3 only (c) 3 only            (d) 1, 2 and 3</p>
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63.	Agriculture	2011	<p>A state in India has the following characteristics:</p> <ol style="list-style-type: none"> <li>1. Its northern part is arid and semi-arid.</li> <li>2. Its central part produces cotton.</li> <li>3. Cultivation of cash crops is predominant over food crops.</li> </ol> <p>Which one of the following states has all of the above characteristics?</p> <ul style="list-style-type: none"> <li>(a) Andhra Pradesh</li> <li>(b) Gujarat</li> <li>(c) Karnataka</li> <li>(d) Tamil Nadu</li> </ul>
64.	Agriculture	2011	<p>Among the following States, which one has the most suitable climatic conditions for the cultivation of a large variety of orchids with minimum cost of production, and can develop an export oriented industry in this field?</p> <ul style="list-style-type: none"> <li>(a) Andhra Pradesh</li> <li>(b) Arunachal Pradesh</li> <li>(c) Madhya Pradesh</li> <li>(d) Uttar Pradesh</li> </ul>

61.	Agriculture	2010	<p>The approximate representation of land use classification in India is?</p> <ul style="list-style-type: none"> <li>(a) Net area sown 25%; forest 33%; other areas 42%</li> <li>(b) Net area sown 58%; forest 17%; other areas 25%</li> <li>(c) Net area sown 43%; forest 29%; other areas 28%</li> <li>(d) Net area sown 47%; forest 23%; other areas 30%</li> </ul>
62.	Agriculture	2011	<p>The lower Gangetic plain is characterised by humid climate with high temperature throughout the year. Which one among the following pairs of crops is most suitable for this region?</p> <ul style="list-style-type: none"> <li>(a) Paddy and cotton</li> <li>(b) Wheat and Jute</li> <li>(c) Paddy and Jute</li> <li>(d) Wheat and cotton</li> </ul>

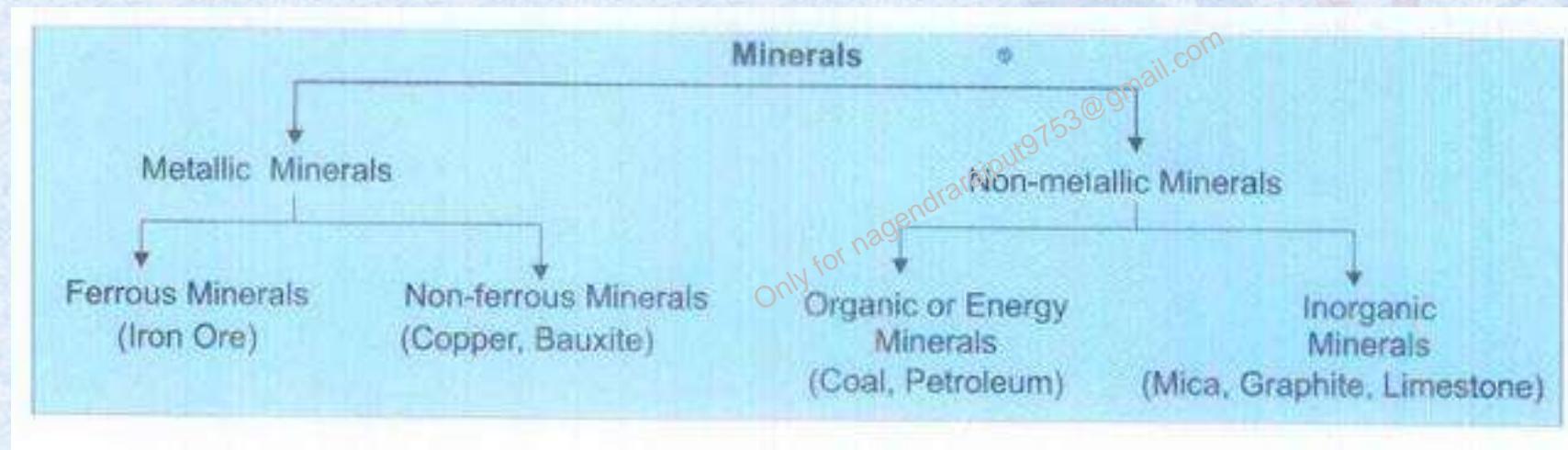
60.	Agriculture	2010	<p>Following are the characteristics of an area in India:</p> <ol style="list-style-type: none"><li>1. Hot and humid climate</li><li>2. Annual rainfall 200 cm</li><li>3. Hill slopes up to an altitude of 1100 metres</li><li>4. Annual range of temperature 15°C to 30°C</li></ol> <p>Which one among the following crops are you most likely to find in the area described above?</p> <p>(a) Mustard    (b) Cotton (c) Pepper    (d) Virginia tobacco</p> <p>Only for Agendrarajput970@gmail.com</p>
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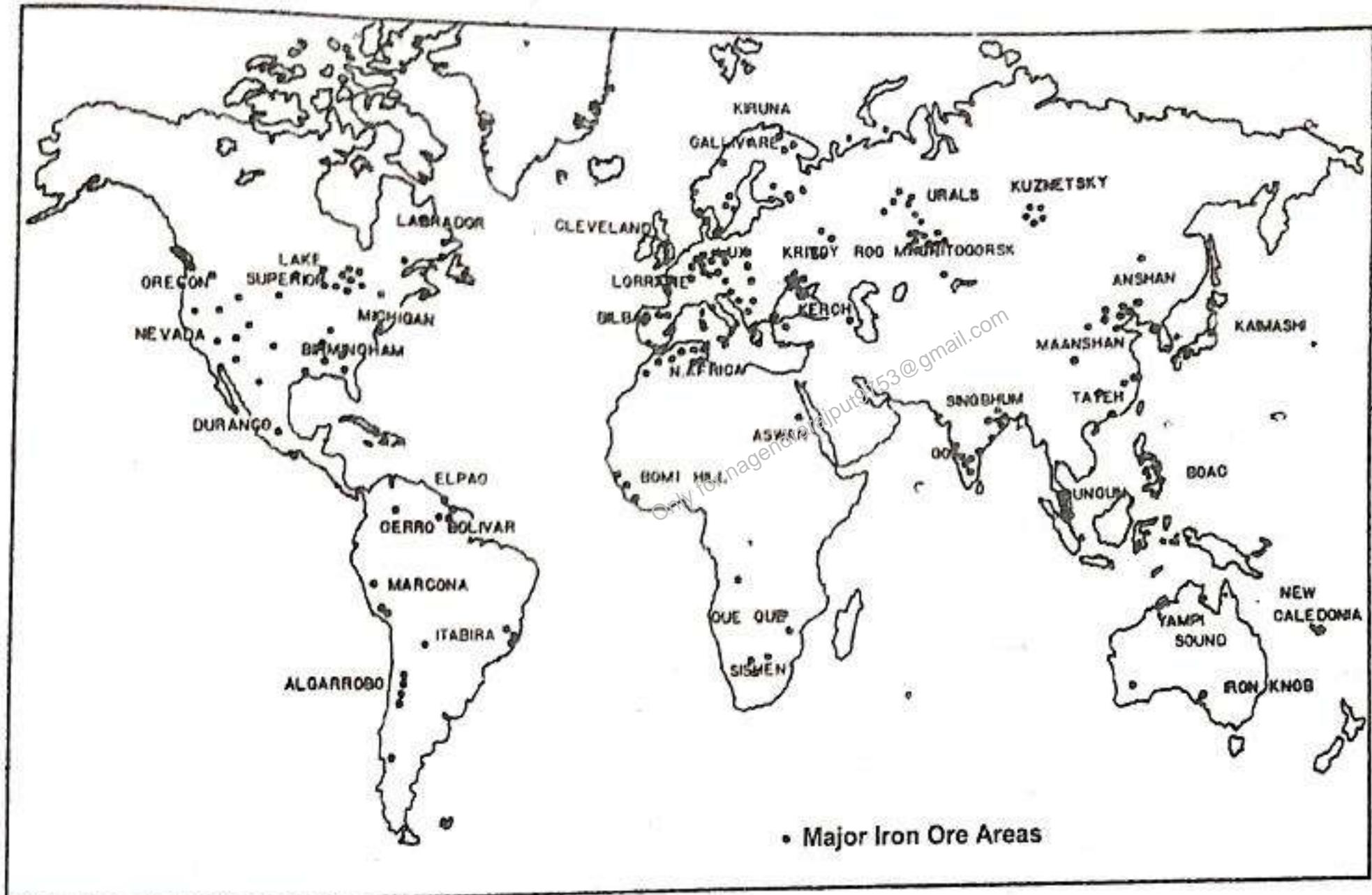
**67.** "The crop is subtropical in nature. A hard frost is injurious to it. It requires at least 210 frost-free days and 50 to 100 centimeters of rainfall for its growth. A light well-drained soil capable of retaining moisture is ideally suited for the cultivation of the crop." Which one of the following is that crop?

- (a) Cotton
- (b) Jute
- (c) Sugarcane
- (d) Tea

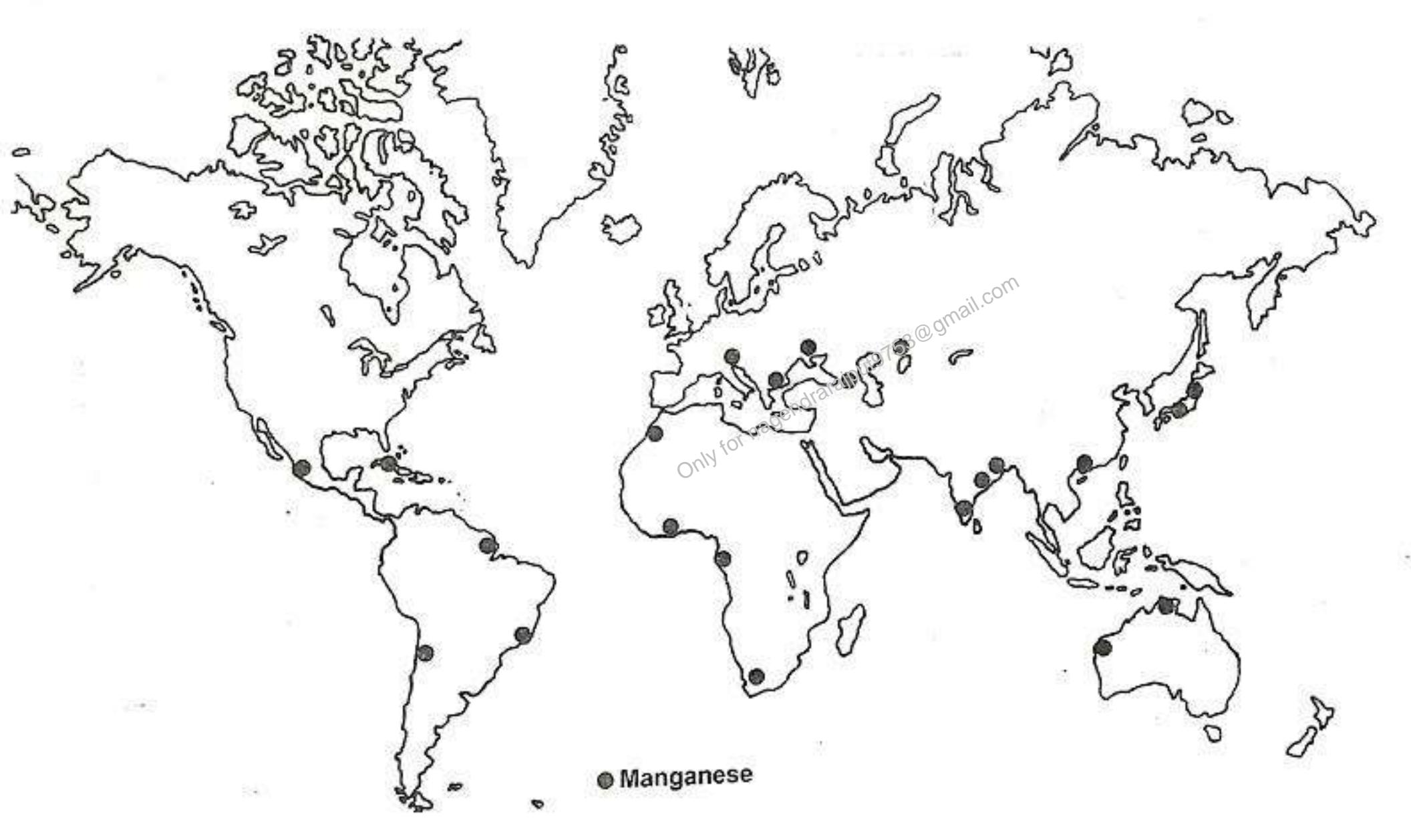
- 66.** With reference to pulse production in India, consider the following statements:
1. Black gram can be cultivated as both kharif and rabi crop.
  2. Green-gram alone accounts for nearly half of pulse production.
  3. In the last three decades, while the production of kharif pulses has increased the production of rabi pulses has decreased.
- Which of the statements given above is/are correct?
- (a) 1 only
  - (b) 2 and 3 only
  - (c) 2 only
  - (d) 1, 2 and 3

61.	Agriculture	2019	<p>With reference to the cultivation of Kharif crops in which in the last five years consider the following statements:</p> <ol style="list-style-type: none"><li>1. Area under rice cultivation is the highest.</li><li>2. Area under the cultivation of jowar is more than that of oilseeds.</li><li>3. Area of cotton cultivation is more than that of sugarcane.</li><li>4. Area under sugarcane cultivation has steadily decreased.</li></ol> <p>Which of the statements given above is/are correct? (a) 1 and 3 only (b) 2, 3 and 4 only (c) 2 and 4 only (d) 1, 2, 3 and 4</p>
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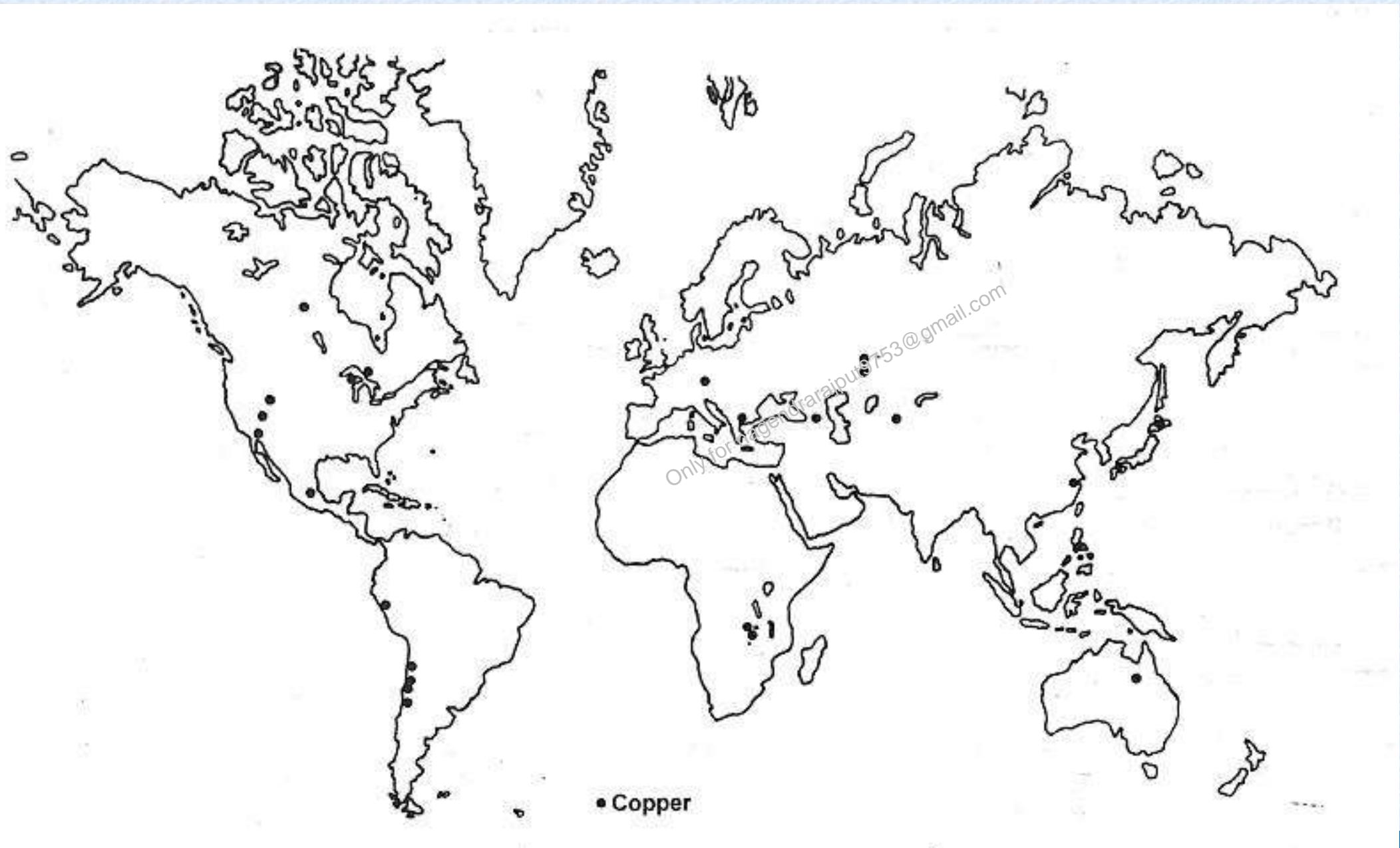




- **North America:** Lake Superior region, NE USA, Labrador, Newfoundland
- **South America:** Itabira (Brazil), Cerro Bolivar (Venezuela)
- **Europe:** Kiruna & Gallivare (Sweden), Bilbao (Spain)
- **Africa:** Bomi hills (Liberia), Postmasberg & Transval (South Africa)
- **Asia:** Krivoy Rog, Kerch (Ukraine) , Kuzbas, Magnetogorsk (Siberia), machuria (China)
- **Australia:** Iron knob, Mt.Goldsworthy



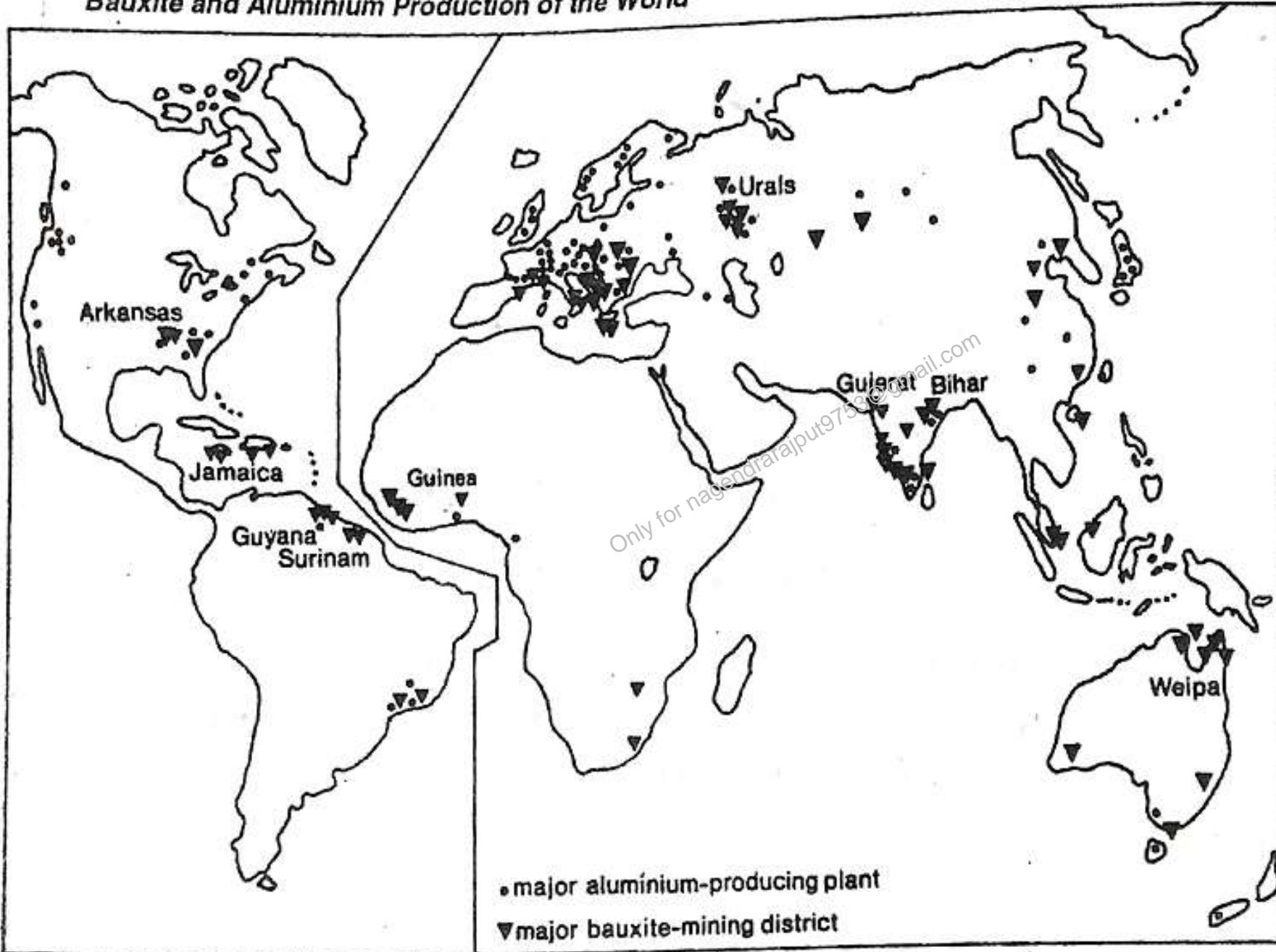
- **South America:** Macapa, Minas Gerais (Brazil), Western Mato grasso
- **Africa:** Zaire, Postmasberg (South Africa)
- **Asia:** Nikopol and Tokmak (Ukraine), Chiatura (Georgia), Urals



- **North America:** Sudbury, Lynn lake (Canada)
- **South America:** Casapalco (Peru), Chuquicamata & San Jose (Chile)
- **Africa:** Katanga
- **Asia:** Lake Balkash (Russia), Ulanbatore (Mongolia)

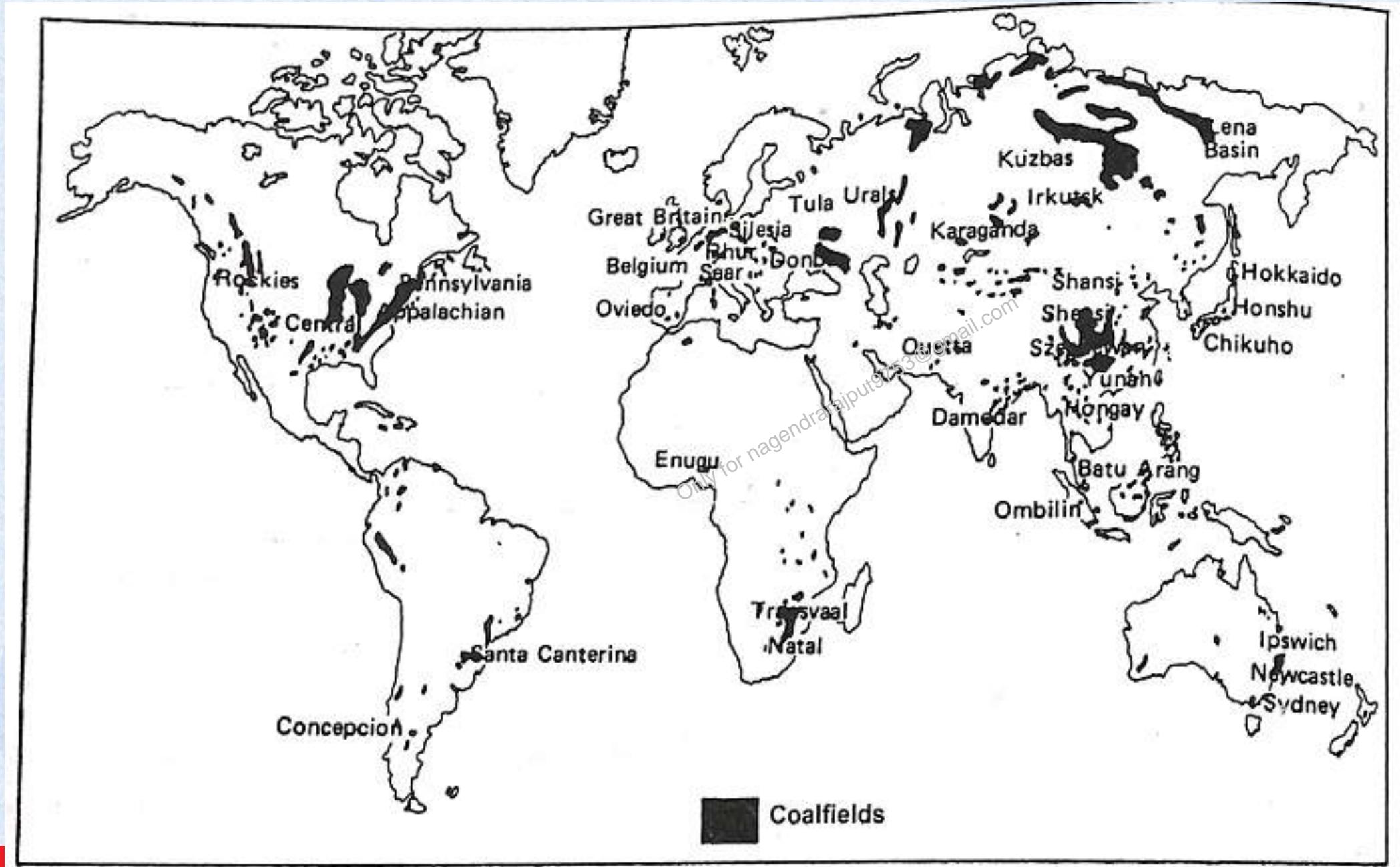
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### Bauxite and Aluminium Production of the World



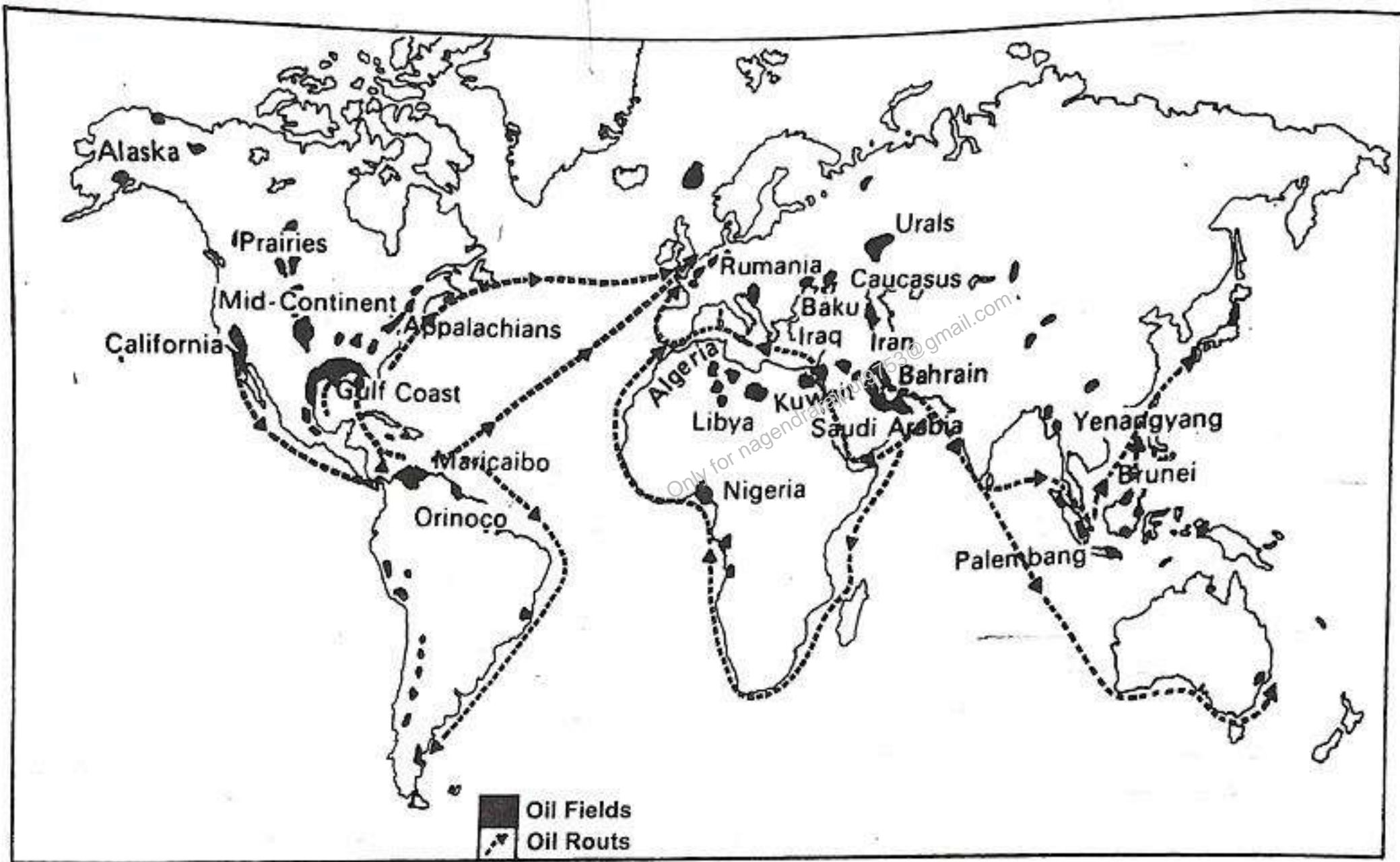
- **North America:** Alabama, Arkansas (USA)
- **South America:** Jamaica, Guyana, Surinam
- **Europe:** France, Hungary
- **Africa:** Guinea
- **Asia:** Urals, Krasnaya (Russia)
- **Australia:** Weipa, Cape york, Darling range

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- **North America:** Pennsylvania, Appalachian, Rockies, Mexican gulf (USA), Vancouver, Nova scotia (Canada)
- **South America:** Santa Canterina (Brazil), Concepcion (Chile)
- **Europe:** Great Britain, Ruhr & Saar (Germany), Spain
- **Africa:** Zambia, Zimbabwe, Enugu (Nigeria), Transval & Natal (South Africa)
- **Asia:** Donetsk, Donbas, Moscow – tula, Kuzbas, Urals, Lena (Russia), Shanzi, Shantung, Yunnan (China)
- **Australia:** Ipswich, New castle

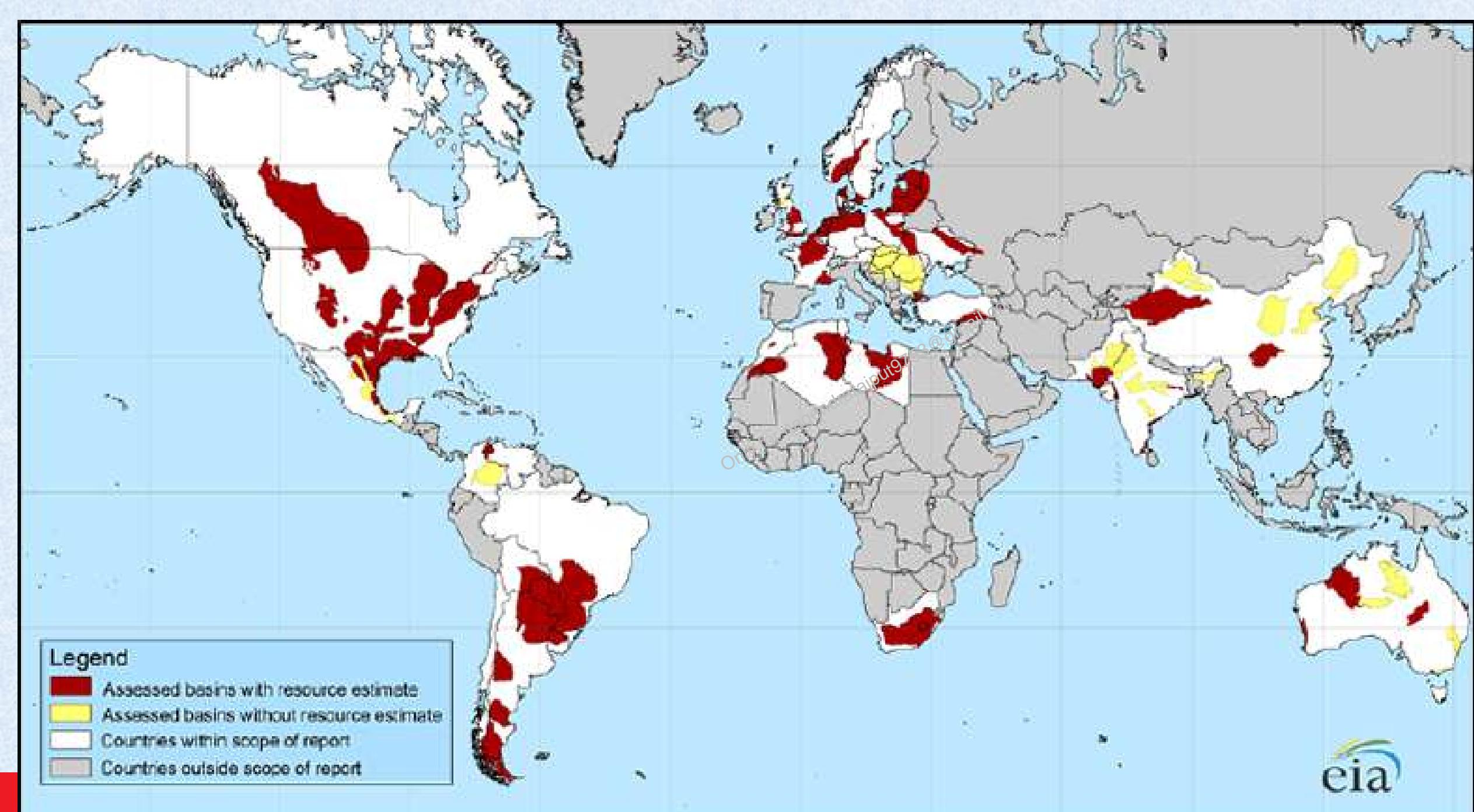
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- **North America:** Gulf coast, Appalachian, California, Alaska (USA), Prairies, Edmonton, Calgary (Canada)
- **South America:** Maracaibo, Orinoco basin (Venezuela), Magdalena (Columbia), Punta Arenas (Chile), Falkland
- **Europe:** North Sea, Norway
- **Africa:** Algeria, Libya, Nigeria – Niger delta
- **Asia:** Dhaharan, Quatif (Saudi Arabia), Mosul, Kirkuk, Zubair (Iraq), Masjid Sulaiman (Iran), Kuwait, Bahrain, Qatar, Abudabhi (UAE); Baku (Azerbaijan), Urals, Caucasus, Caspian sea, NW Siberia, Sakhalin (Russia); Sumatra, Borneo (Indonesia); Brunei; Sarawak, Sabah (Malaysia), China

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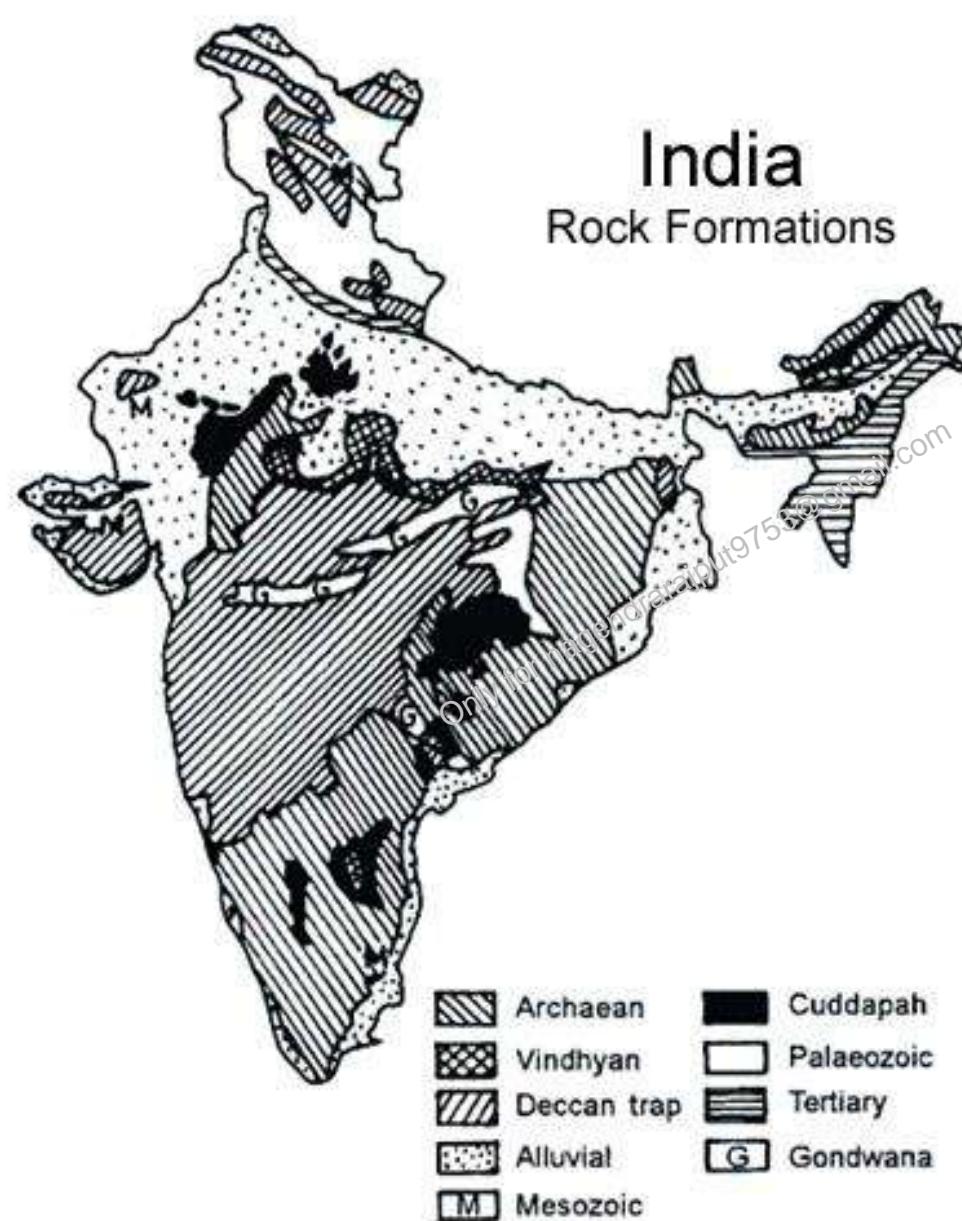


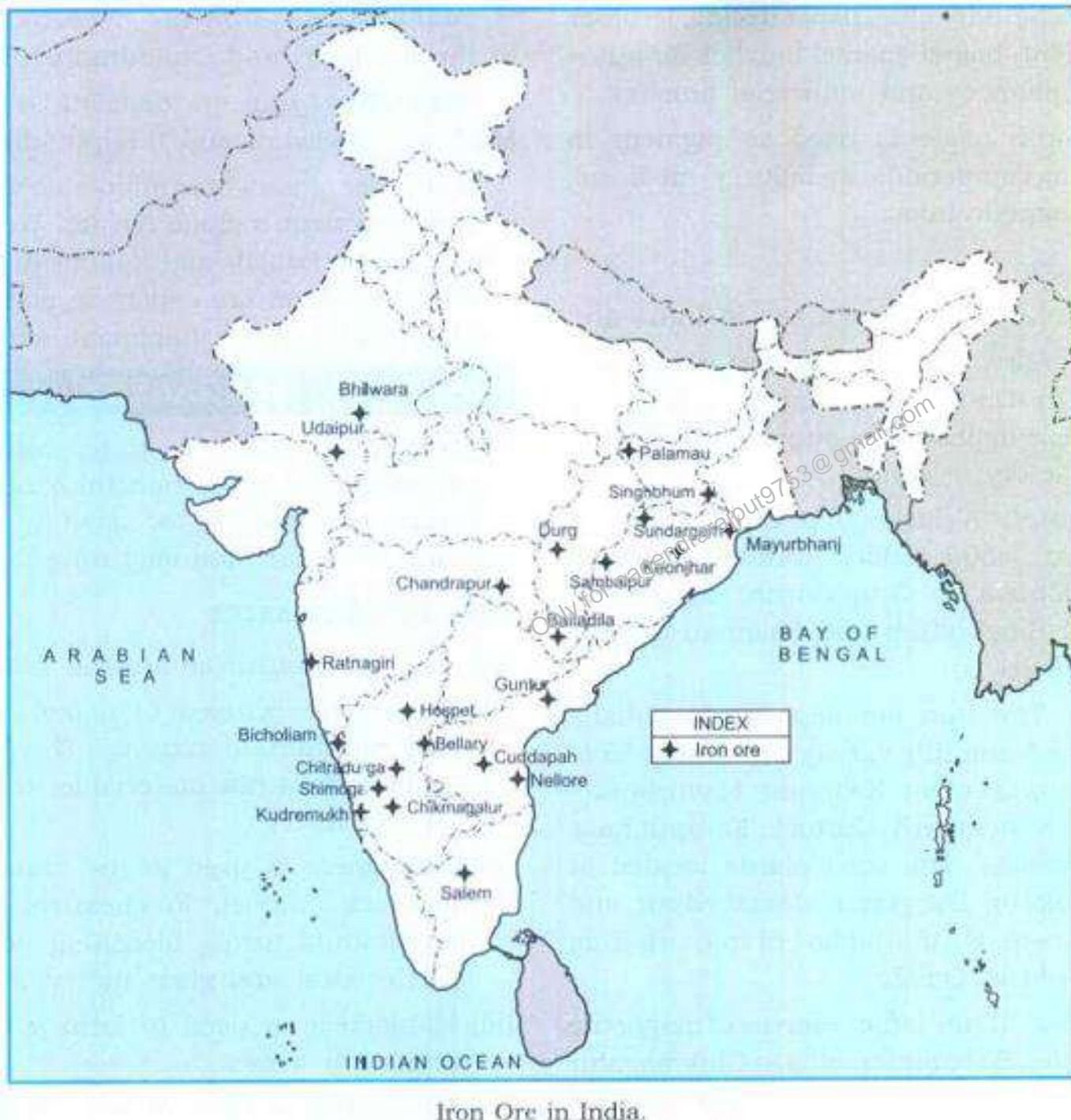
**Legend**

- Assessed basins with resource estimate
- Assessed basins without resource estimate
- Countries within scope of report
- Countries outside scope of report

**Table 1: Leading Countries with Technically Recoverable Shale Gas Resources**

Rank	Country	Technically recoverable Shale gas (trillion cubic feet)
1	China	1,115
2	Argentina	802
3	Algeria	707
4	U.S.A	623
5	Canada	573
6	Mexico	545
7	Australia	429
8	South Africa	390
9	Russia	285
10	Brazil	245
11	India	96
<b>World Total</b>		<b>7576</b>

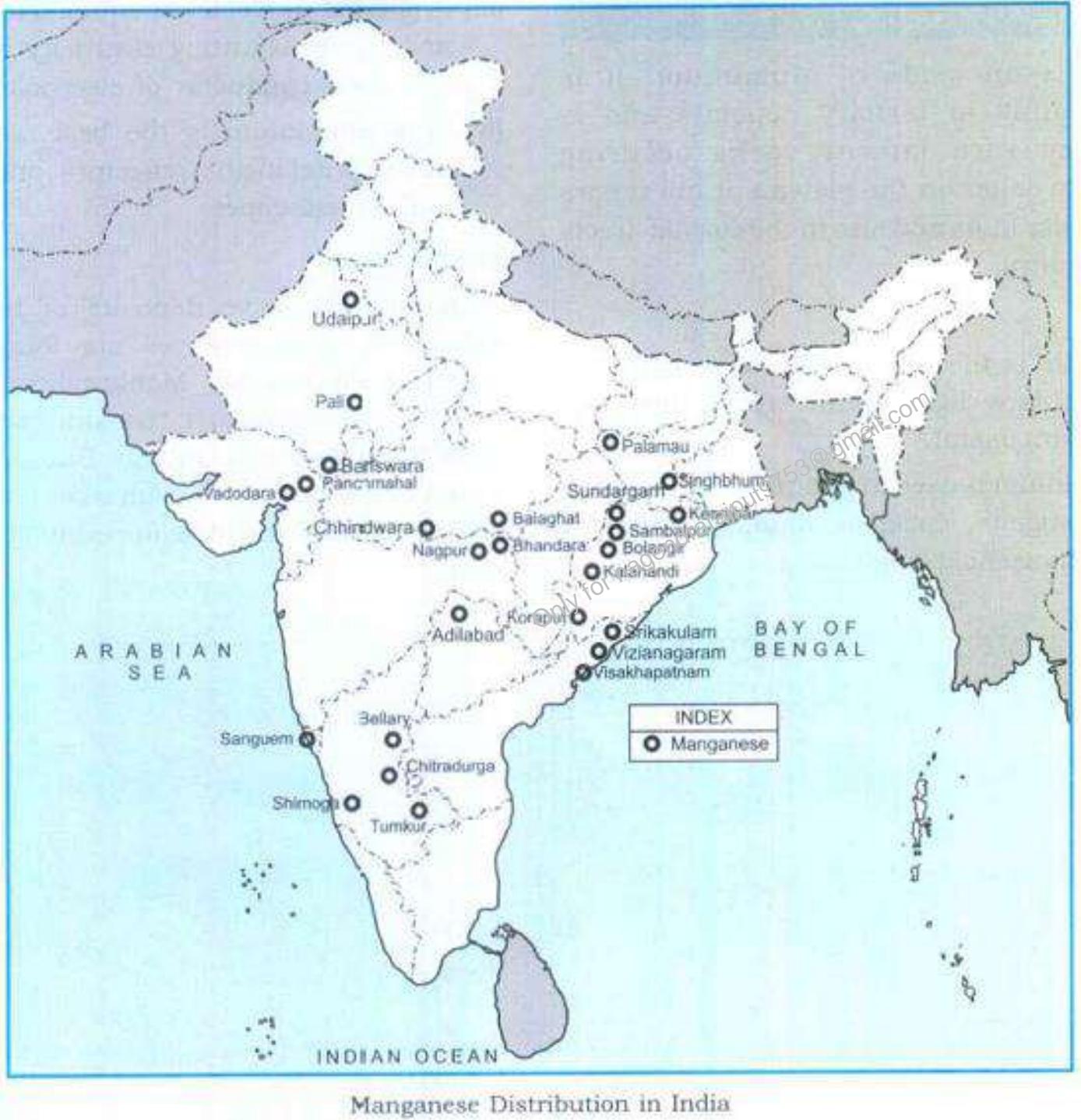




## Iron

- Odisha: Gurumahisani, Sulepat and Badam Pahar in Mayurbhanj district; Baramjader group extended in Keonjhar and Sundargarh districts.
- Singhbhum district of Jharkhand
- Bailadilla of Bastar district in Chhattisgarh;
- Sandoor Hills at Bellary - Hospet region and Bababudan Hills at Chikmaglur district in Karnataka;

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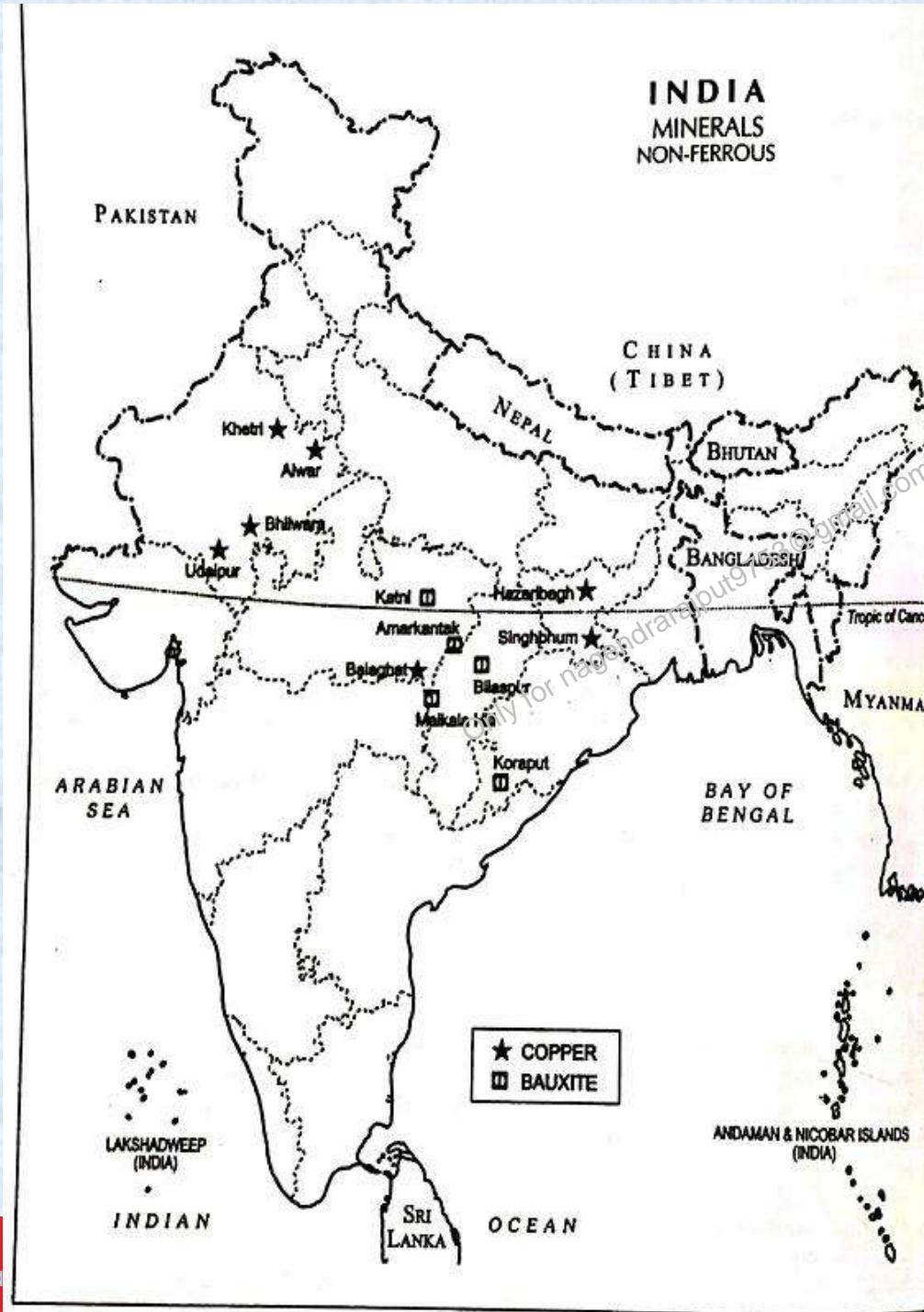
## Manganese

- ✓ Keonjhar and Karaput region in Orissa
- ✓ Balaghat and Chindwara in Madhya Pradesh
- ✓ Nagpur and Bhandara in Maharashtra
- ✓ Panchmahal in Gujarat
- ✓ Vishakhapatnam and Srikakulam in Andhra Pradesh
- ✓ Singhbhum in Jharkhand
- ✓ Udaipur and Banswara in Rajasthan



## Bauxite

- Ranchi and Palamu in Jharkhand
- Sarguja, Shah dole, Durg and Balaghat in Madhya Pradesh;
- Kolaba, Thane and Ratnagiri in Maharashtra;
- Belgaon and Bababudan Hills in Karnataka;
- Palni, Javdi and Shevaroy hills regions in Tamil Nadu



## Copper

- ✓ Singhbhum in Jharkhand;
- ✓ Jhunjhunu, Bhilwara, Alwar and Udaipur in Rajasthan; Khetri Mine in Rajasthan has been a major copper extracting region since the age of Indus valley civilization.
- ✓ Balaghat in Madhya Pradesh;
- ✓ Guntur and Nellore districts in Andhra Pradesh.

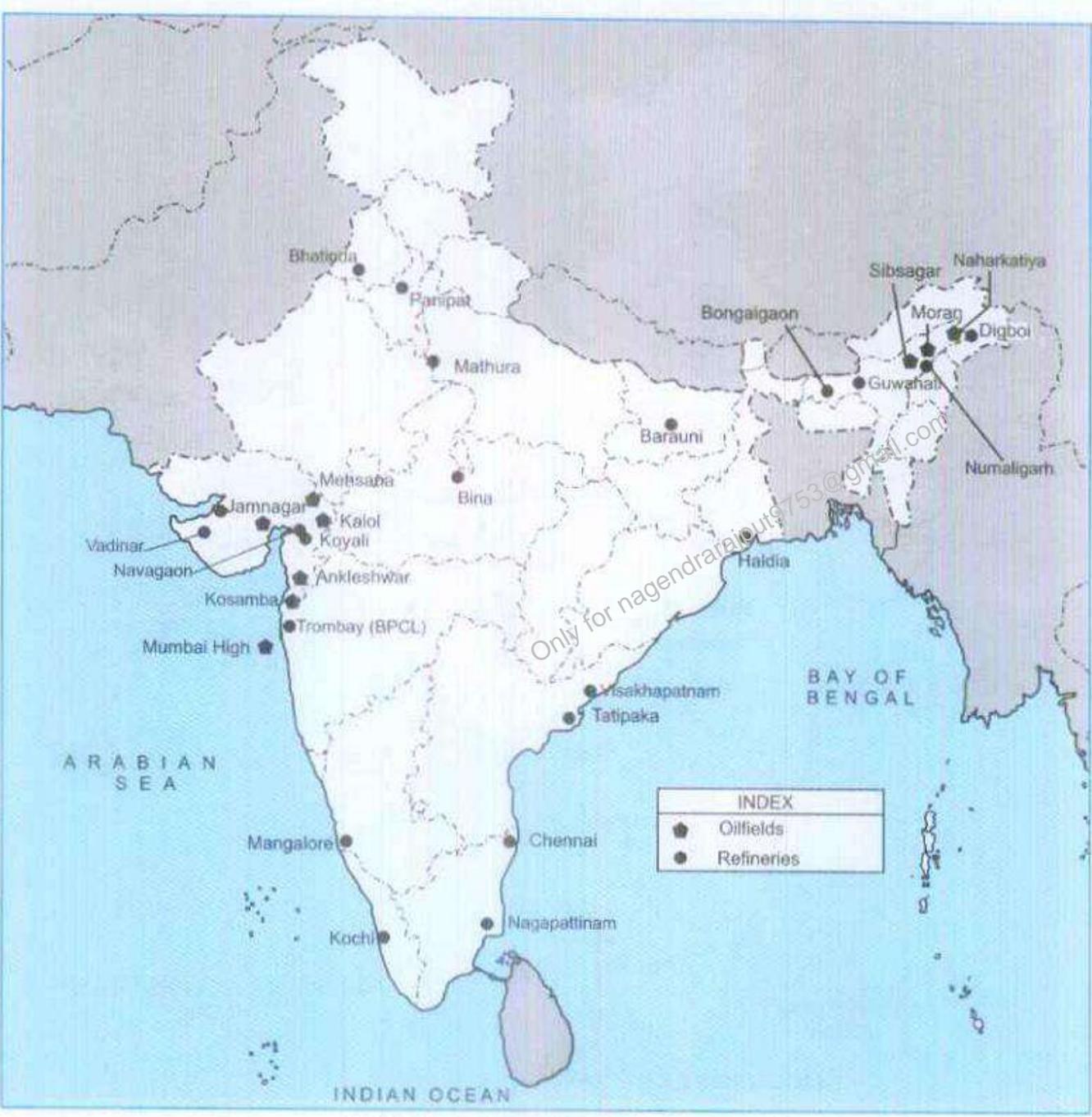
## Mica

- Muscovite and Biotite types of mica are extracted from Hazaribagh, Singhbhum and Palamu districts.
- Other major mica producing regions are Gaya and Munger in Bihar
- Nellore and Khammam in Andhra Pradesh
- Udaipur and Bhilwara districts in Rajasthan.



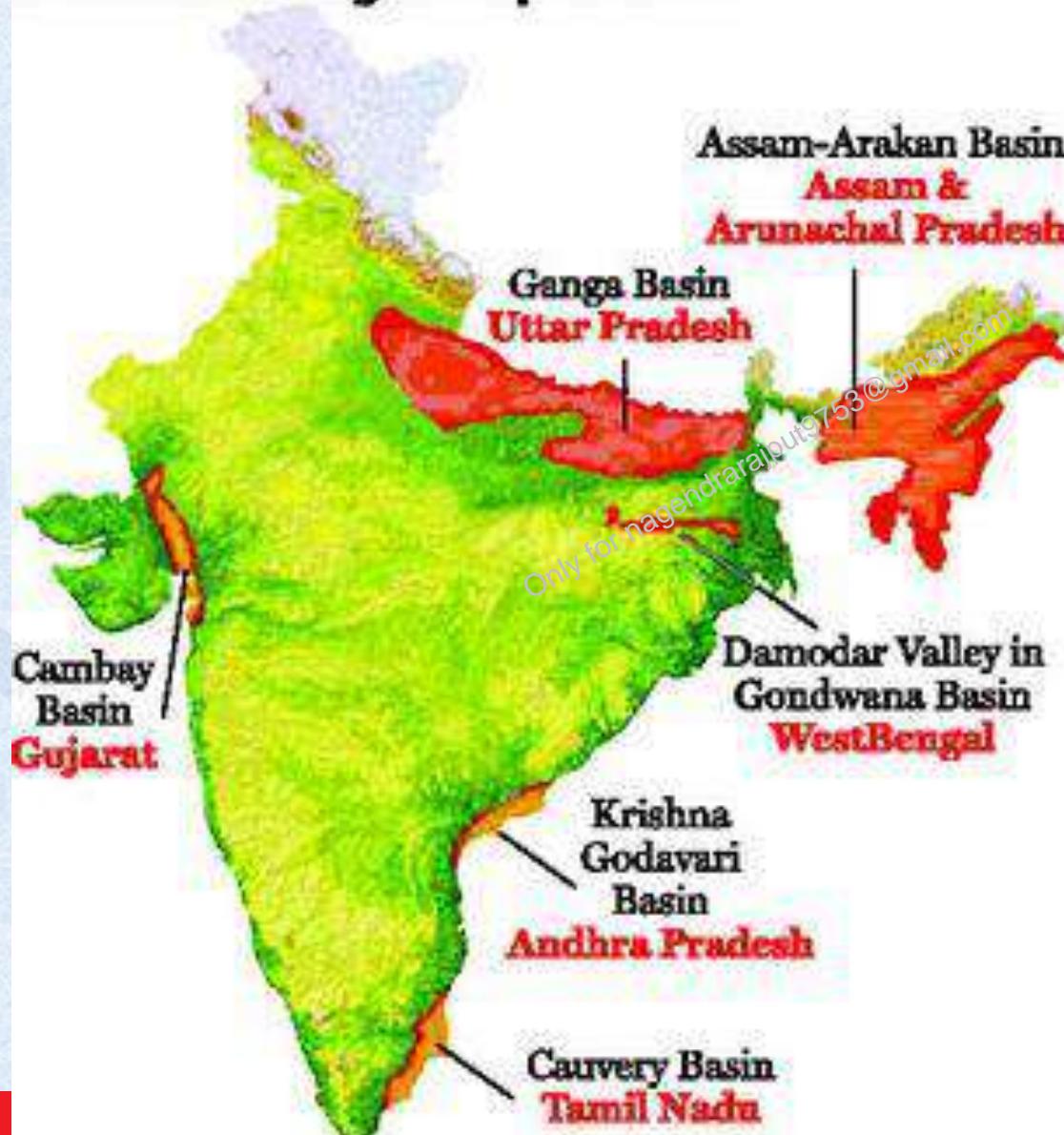
**Table 11.1. Gondwana Coalfields**

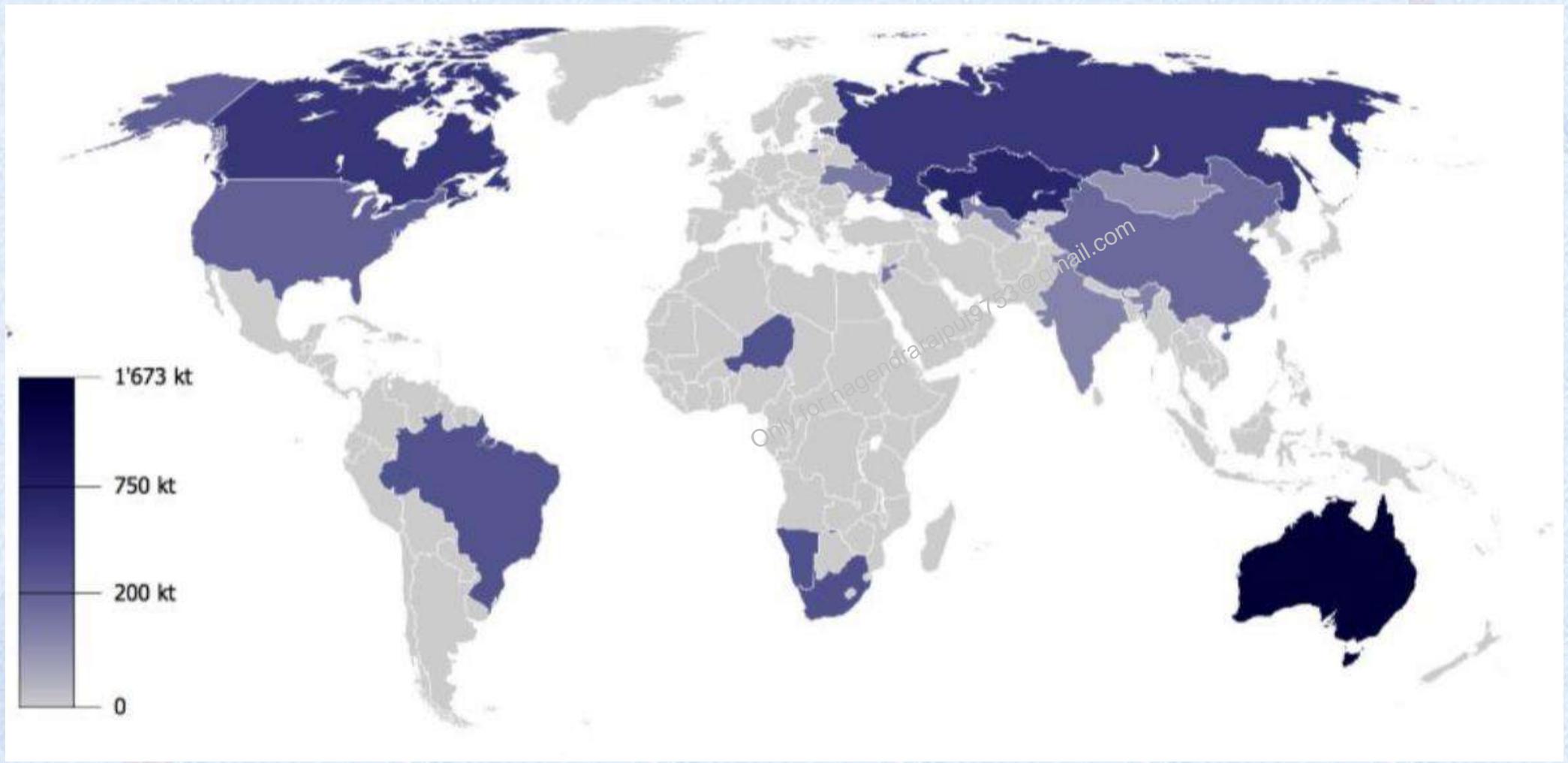
<b>State</b>	<b>River Valley</b>	<b>Coalfields</b>
1. Jharkhand	Damodar	Jharia, Karnpura, Ramgarh, East and West Bokaro, Giridih, Auronga, Hutar and Deitonganj.
2. Odisha	Mahanadi	Sambalpur, Sundargarh and Talcher.
3. Madhya Pradesh	Mahanadi/Son	Singrauli, Narsingpur, Chhindwara, Betul.
4. Chhattisgarh	Mahanadi/Son	Sarguja, Sendurgarh, Rampur, Korba and Raigarh.
5. Maharashtra	Godavari	Kamptee, Wardha valley, Chandrapur and Yavatmal.
6. Andhra Pradesh	Godavari	East and West Godavari.
7. Telangana	Godavari	Adilabad, Khammam and Warangal.
8. West Bengal	Damodar	Raniganj, Bardhaman, Bankura, Purulia, Darjeeling and Jalpaiguri.

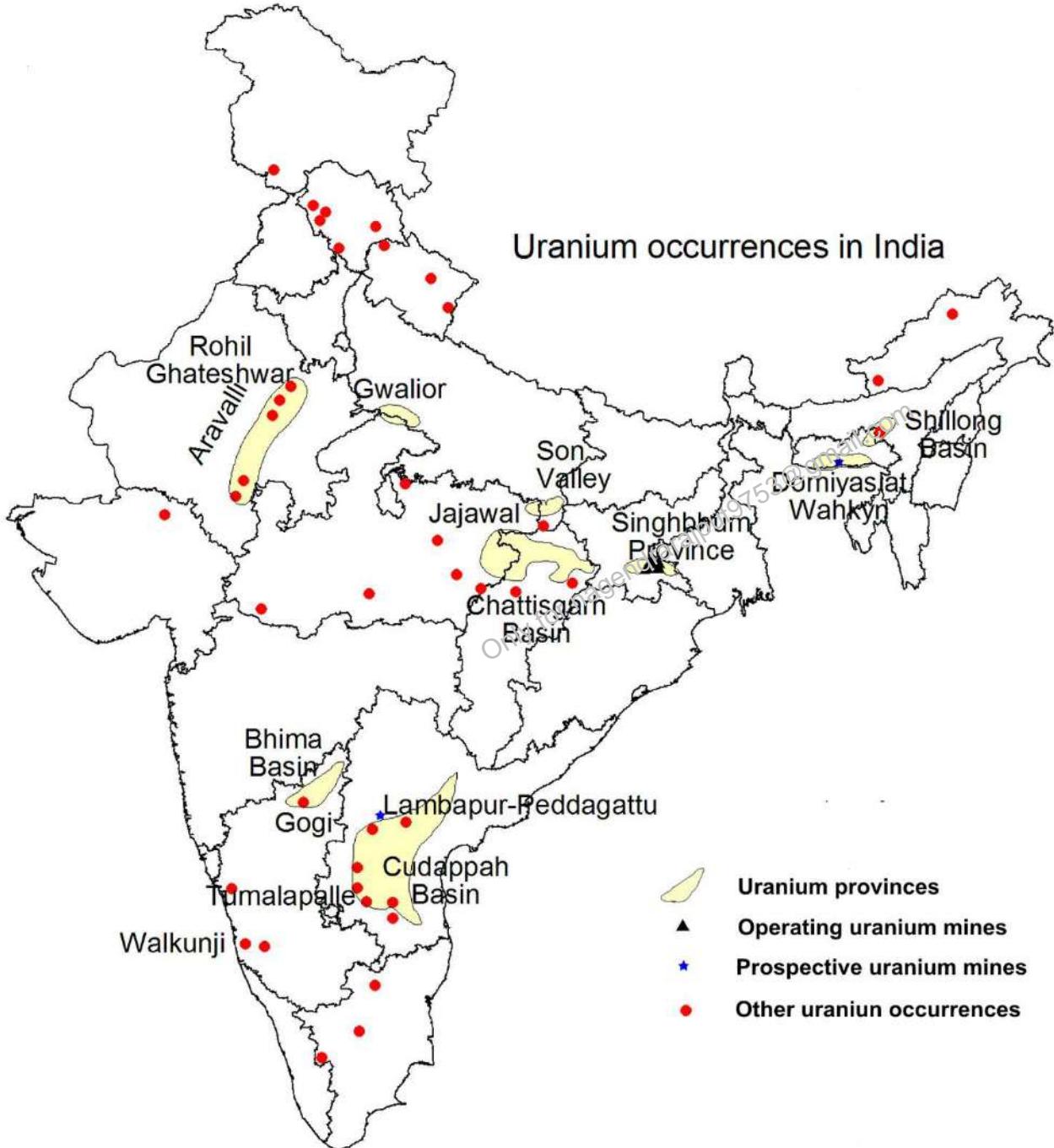


- **Assam region:** Digboi, Naharkatiya, Hagriyan-Moran and Surma river valley. Natural gas is also found in Bagrijan-Moran area.
- **Gujarat region:** Khambakt and Ankleshwar while oil regions are extended upto Navgaon, Kosamba, Olpad, Dholka, Mehsana, Kalol etc.
- **Mumbai High region,** 176 km away from the Mumbai coast
- Region off-shore in **Krishna - Godavari** river valley.

## Prospective basins for phase 1 shale oil and gas exploration



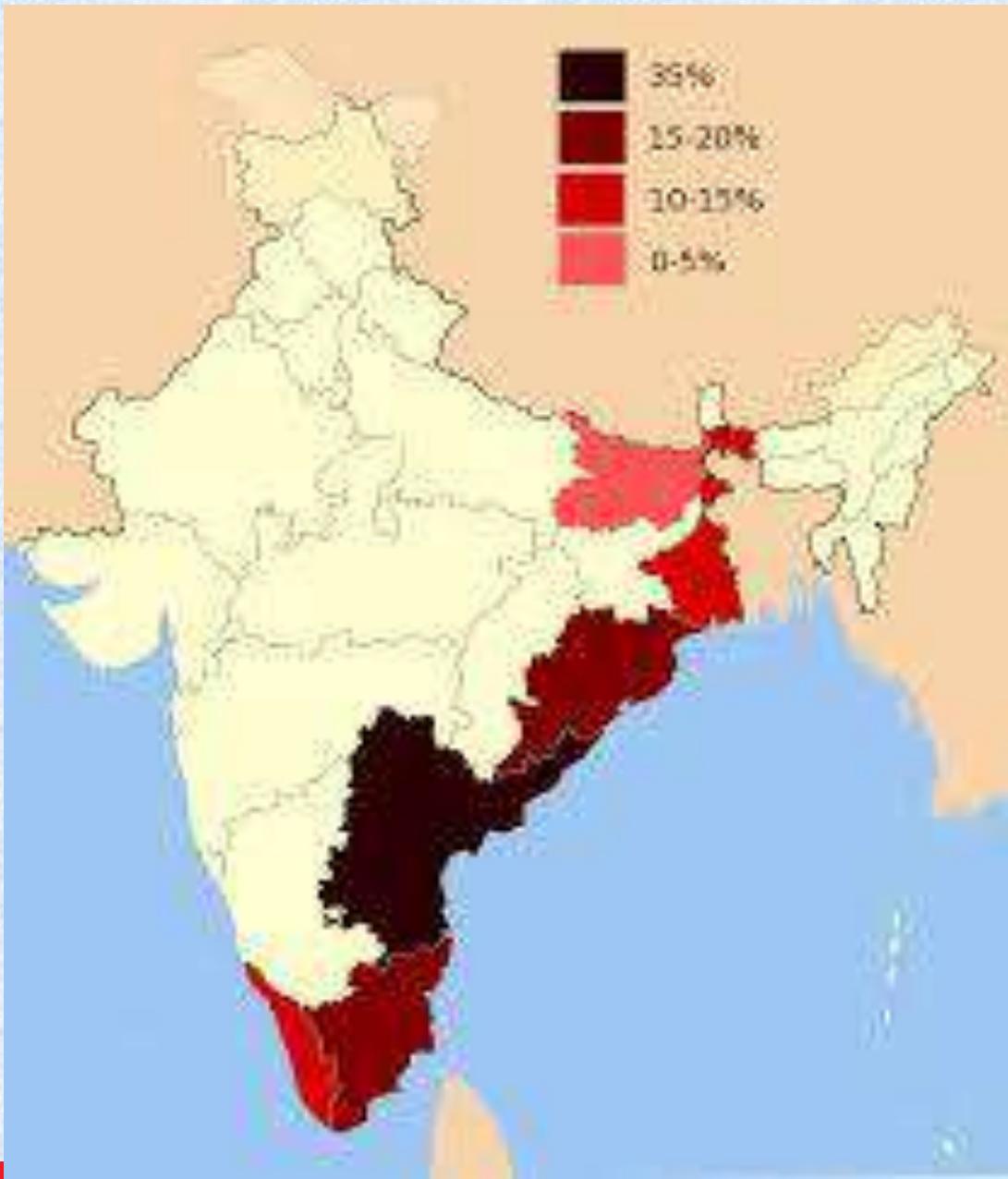




## Uranium resources (as of July 2017)

State	Districts	Main deposits	Tonnes U
Andhra Pradesh	Kadapa	Tummalapalle	120,229
	Guntur	Koppunuru	2,341
Telangana	Nalgonda	Lambapur, Pedagattu, Chitrial	15,731
Jharkhand	E.Singhbhum	Jaduguda, Bhatin, Narwapahar, Turamidh, Banduhurang, Mohudih, Bagjata,	53,237
	Saraikela-Kharswan	Bangurdih	1,367
Meghalaya	West Khasi Hills	KPM (Domiasat), Wahkyn, Wahkut	19,538
Rajasthan	Sikar, Udaipur	Rohil, Umra	7,989
Karnataka	Yadgir, S.Kanara	Gogi	3,970
Chhattisgarh	Rajanandgaon, Surguja	Bodal, Jajawal	3,380
	Sonbhadra	Naktu	666
Uttarakhand	Rudraprayag	Pokhri-Tunji	85
Himachal Pradesh	Una, Shimla, Mandi	Rajpura	665
	Gondia	Mogarra	301
<b>Total</b>			<b>229,499</b>

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## USGS Estimates in tonnes (2011)

Country	Reserves
India	963,000
United States	440,000
Australia	300,000
Canada	100,000
South Africa	35,000

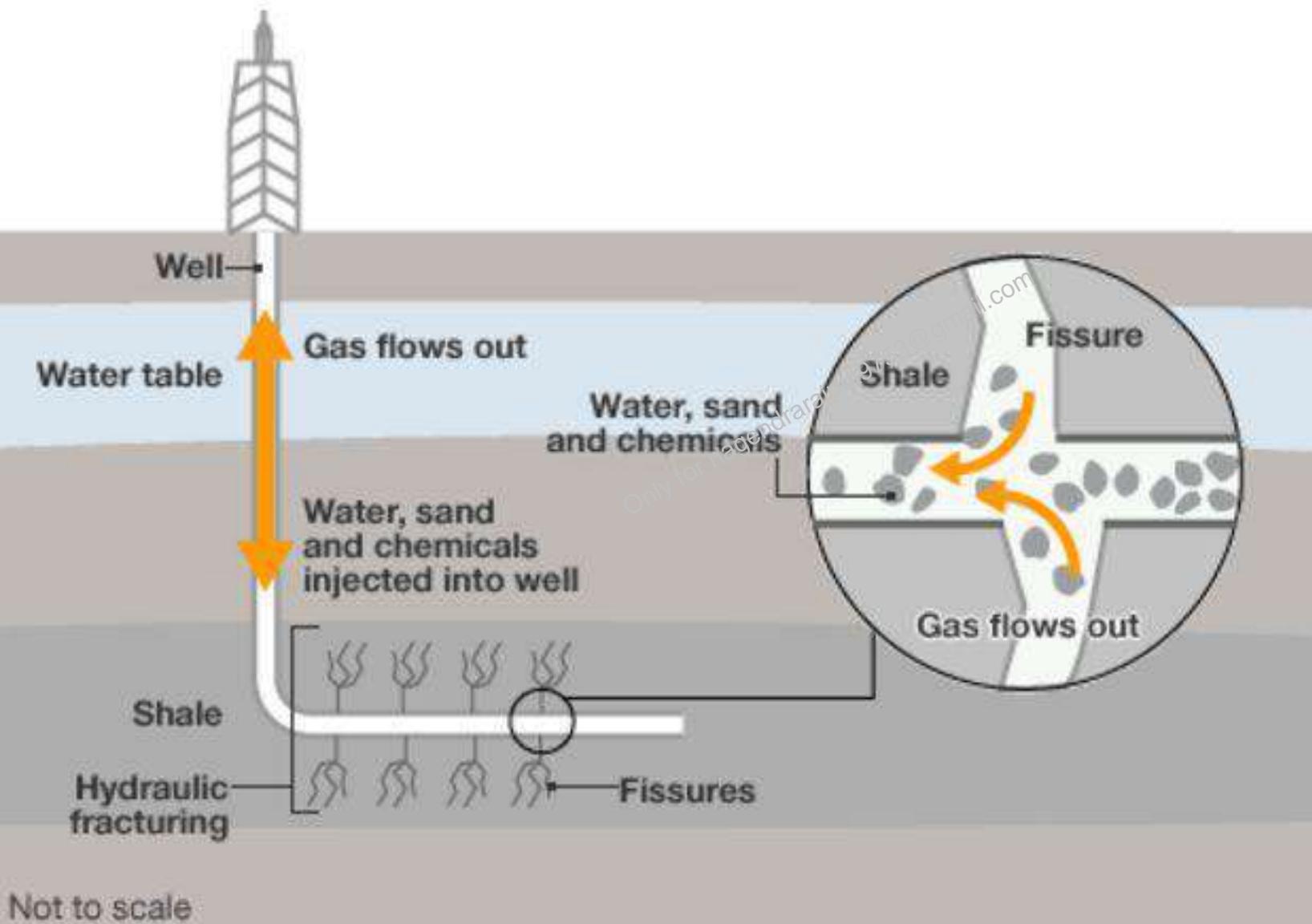
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State	Monazite (Million tonnes)
Odisha	2.41
Andhra Pradesh	3.72
Tamil Nadu	2.46
Kerala	1.90
West Bengal	1.22
Jharkhand	0.22
Total	11.93



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## Shale gas extraction



**I. Major Minerals****Fuel Minerals**

Coal

Lignite

Natural Gas

Petroleum (Crude)

**Other Major Minerals****Metallic Minerals**

Bauxite

Chromite

Copper Ore

Gold

Iron Ore

Lead Concentrates

Zinc Concentrates

Manganese Ore

Silver

Tin Concentrates

Tungsten Concentrates

**Non-Metallic Minerals**

Agate

Andalusite

Apatite

Asbestos

Ball Clay

Barytes

Calcite

Chalk

Clay (Others)

Corundum

Calcarious sand

Diamond

Diaspore

Dolomite

Dunite

Felspar

Fire Clay

Felsite

Flourite(Graded)

Flourite (Concentrates)

Gypsum

Garnet (Abrasives)

Garnet (Gem)

Graphite run-on-mines (r.o.m.)

Jasper

Kaolin

Kyanite

Laterite

Limestone

Limestone Kankar

Lime Shell

Magnesite

Mica(Crude)

Ochre

Pyrites

Pyrophyllite

Phosphorite

Quartz

impure quartz,

Quartzite

Fuchsite Quartzite

Silica Sand

Sand Others

Salt ( Rock)

Salt ( Evaporated)

Shale

Slate

Steatite

Sillimanite

Vermiculite

Wollastonite

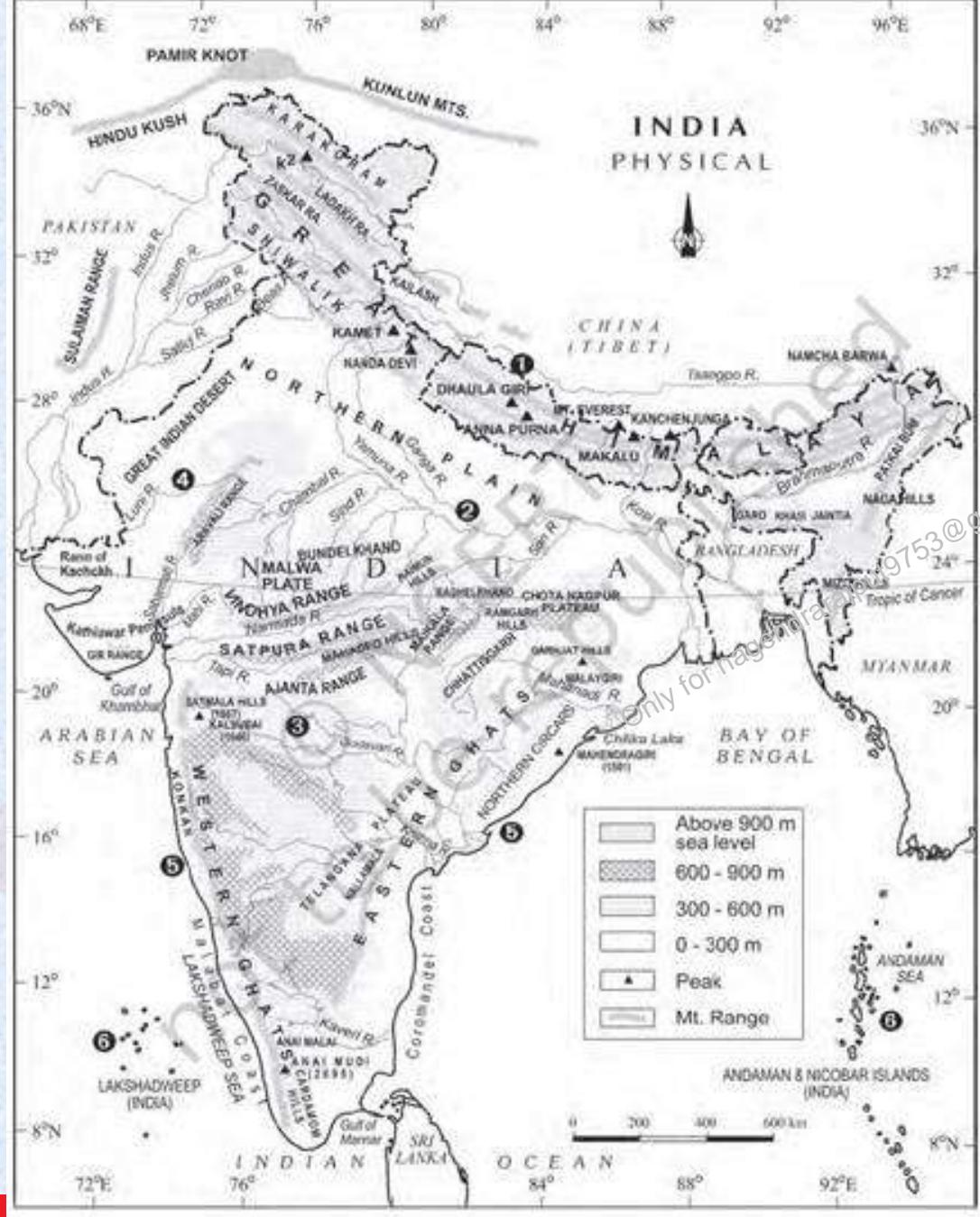
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### **Important minor minerals**

1. boulder,
2. shingle,
3. lime shell, kankar and limestone used in kilns for manufacture of lime used as building material,
4. brick-earth,
5. bentonite,
6. slate and shale when used for building material,
7. marble,
8. stone used for making household utensils,
9. quartzite and sandstone when used for purposes of building or for making road metal and household utensils,
10. saltpetre
11. ordinary earth (used or filling or leveling purposes in construction or embankments, roads, railways, building).

### **Important minor minerals**

12. Agate,
13. Barytes,
14. Calcite,
15. Chalk,
16. Corundum,
17. Diaspore,
18. Dolomite,
19. Dunite/Pyroxenite,
20. Felspar,
21. Gypsum,
22. Jasper,
23. Kaolin,
24. Laterite,
25. Sand (others),
26. Silica Sand,
27. Steatite or Talc or Soap stone.



## INDIA Cotton Textile Industries





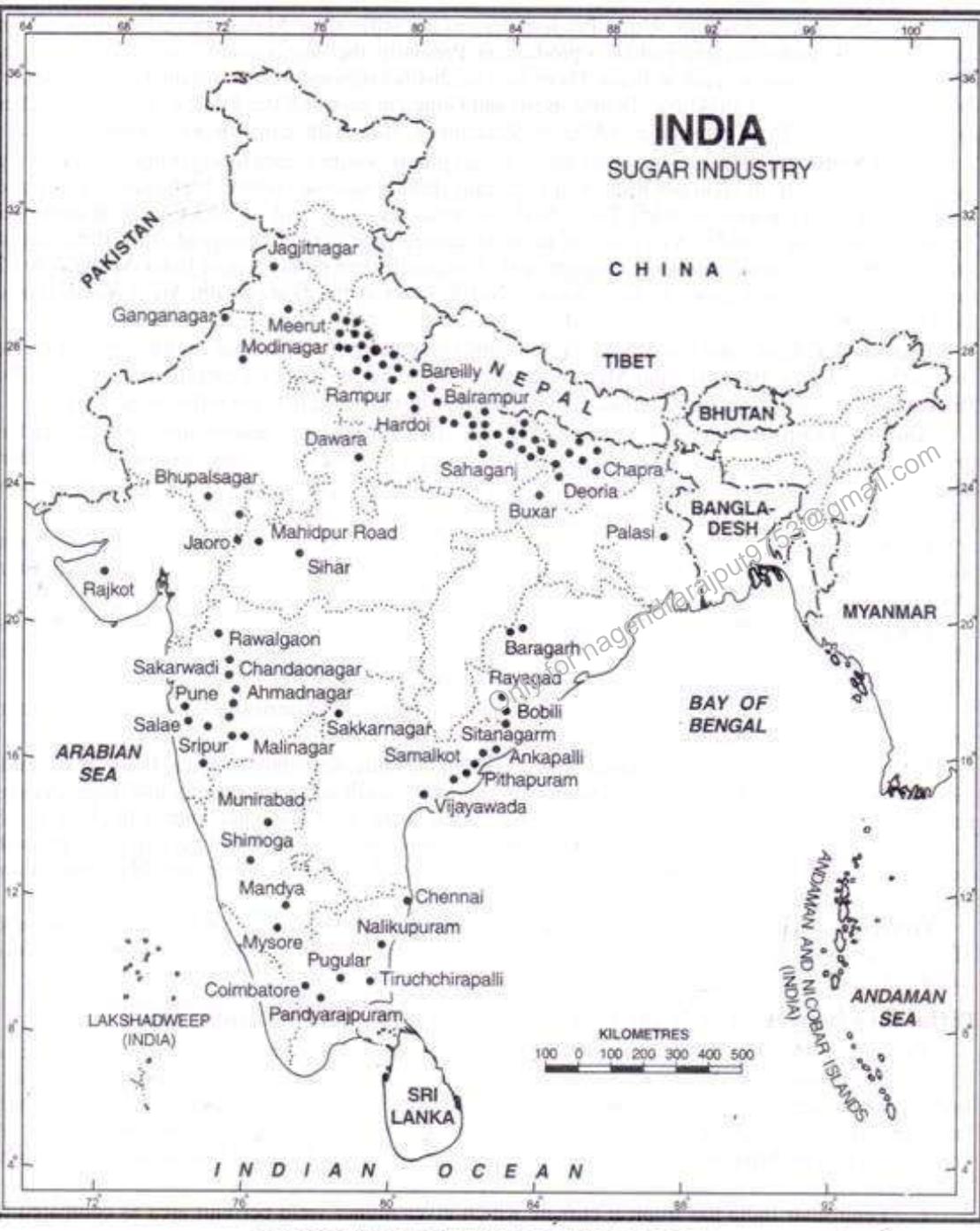


FIG. 27.17. India : Distribution of Sugar Industry

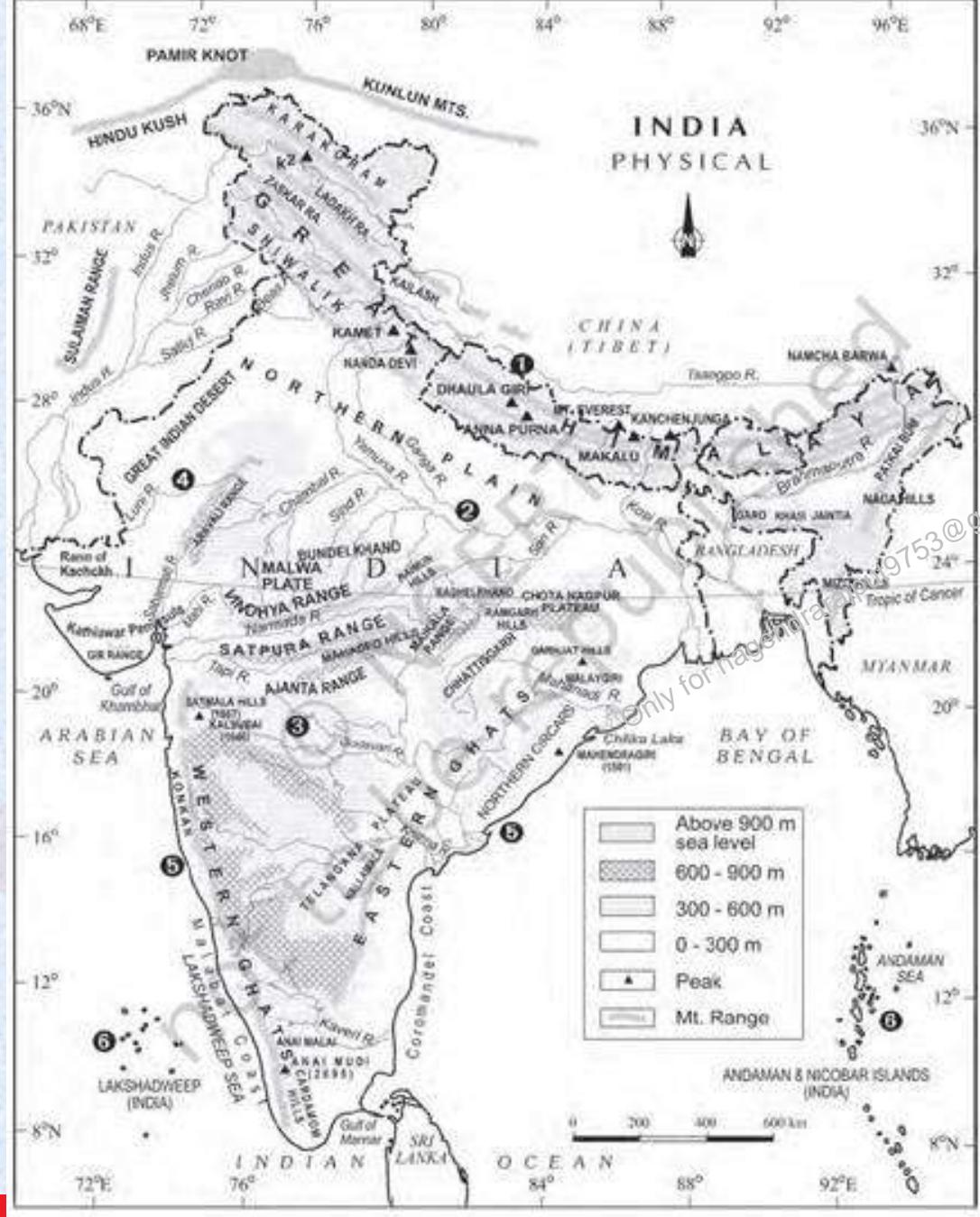


## DISTRIBUTION -

I&S Plant	Iron Ore	Coal	mine & Mag	water	Labour	Power
Jamshedpur TISCO Sharkhand	Jharkhand Odisha	Jharkhand Odisha	Odisha	Subarnrekha Odisha	Bihar Odisha	Jharkhand
Bengal WB	Jharkhand	Raniganj	Odisha	Damodar	Bihar	Damodar Valley Corp.
Durgapur WB Help of UK	Jharkhand	Raniganj	Odisha	Damodar	Bihar	DVC
Bokaro (Sharkh.) USSR	Jharkhand	Bokaro	Odisha	Local Reservoir	Bihar	DVC
Rourkela (Odisha) Germany	Odisha	Bokaro	Odisha	Local Rivers	Odisha	Hirakud Project
Bhilai (Chhattisgarh) USSR	Chhattisgarh	Godavari Valley + Chhattisgarh	Maha. + MP	Local Stream	Chattisgarh	Thermal Power Plant

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I&S Plant	Iron Ore	Coal	mine & Mag	water	Labour	Power
Bhadrawati (Karnataka) VISL	Karnataka	Godavari Valley AP, Ch.	Karnataka	Bhadra River + Tunga River	local	Sharavathi Power Project
Vizag (AP)	Chhattisgarh	Godavari	Karnataka	Tungabhadra	Local	Tungabhadra PP
Vijaynagar Steel Plant (Kar.)	Karnataka	AP	Karnataka	Tungabhadra area	Local	Mettur PP
Salem (Tamil Nadu)	Karnataka	Neyveli Coal	Karnataka	Cauvery	Local	



## Major Industries in India

Industry	States and Main Centres of Production
<b>1. Iron and Steel</b>	<ol style="list-style-type: none"> <li>1. <b>Tata Iron and Steel Company (TISCO)</b> — Jamshedpur, Jharkhand</li> <li>2. <b>Bokaro Steel Plant</b> — Hazaribagh, Jharkhand.</li> <li>3. <b>Durgapur Steel Plant</b> — Burdwan, West Bengal.</li> <li>4. <b>Bhilai Iron and Steel Plant</b> — Durg, Chhattisgarh.</li> <li>5. <b>Rourkela Steel Plant</b> — Sundargarh, Odisha.</li> <li>6. <b>Indian Iron and Steel Company (IISCO)</b> — IISCO Plants are located at Burnpur, Hirapur and Kulti, near Asansol, West Bengal.</li> <li>7. <b>Vishvesvaraya Iron and Steel Limited</b> — Shinoga, Karnataka.</li> <li>8. <b>Vijayanagar Steel Plant</b> — Bellary, Karnataka.</li> <li>9. <b>Vishakhapatnam Steel Plant</b> — Vishakhapatnam, Andhra Pradesh.</li> <li>10. <b>Salem Steel Plant</b> — Salem, Tamil Nadu.</li> </ol>
<b>2. Heavy Engineering Industry</b>	
(A) Shipbuilding	<ol style="list-style-type: none"> <li>1. <b>Hindustan Shipyard Limited (HSL)</b> — Vishakhapatnam, Andhra Pradesh.</li> <li>2. <b>The Cochin Shipyard</b> — Cochin, Kerala.</li> <li>3. <b>The Garden Reach Workshop</b> — Kolkata, West Bengal.</li> <li>4. <b>The Mazagaon Dock Limited (MDL)</b> — Mumbai, Maharashtra.</li> </ol>
(B) Automobile	<ol style="list-style-type: none"> <li>1. <b>Bus and Trucks</b> — Pune, Mumbai, Chennai, Kolkata, Jamshedpur, Lucknow, Uttarakhand.</li> <li>2. <b>Jeeps</b> — Jabalpur (MP), Mumbai.</li> <li>3. <b>Cars</b> — Gurgaon (Haryana), Kolkata, Chennai, Mumbai, Bengaluru, Sanand (Gujarat).</li> <li>4. <b>Two and Three Wheelers</b> — Mumbai, Pune.</li> </ol>

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<b>(C) Railway Locomotives</b>	(i) <b>The Chittaranjan Locomotive Works</b> — West Bengal; (ii) <b>The Diesel Locomotive Works</b> — Varanasi (UP); (iii) <b>The Integral Coach Factory</b> — Perambur, Chennai; (iv) <b>The Rail Coach Factory</b> — Kapurthala, Punjab.
<b>(D) Aircraft</b>	(i) <b>The Hindustan Aeronautics Ltd. (HAL)</b> — Nasik, Koraput, Hyderabad, Kanpur, Lucknow, Bengaluru.
<b>(E) Heavy Electrical</b>	(i) <b>The Heavy Electrical Ltd.</b> — Bhopal, Madhya Pradesh; (ii) <b>The Bharat Heavy Electrical Ltd.</b> — Haridwar (UP), Ramchandrapuram (Telangana), Tiruchirapalli (Andhra Pradesh); (iii) <b>The Hindustan Cable Factory</b> — Jhansi (UP) and Rupnarainpur, West Bengal.
<b>(F) Heavy Machines and Tools</b>	(i) <b>The Hindustan Machine Tools (HMT)</b> — Bengaluru, Karnataka; (ii) <b>The Heavy Machine Tools Plant</b> — Ranchi, Jharkhand; (iii) <b>The Machine Tool Corporation of India</b> — Ajmer, Rajasthan; (iv) <b>The Praga Tools Ltd.</b> , — Secunderabad, Andhra Pradesh; (v) <b>The National Instruments Factory</b> — Kolkata, West Bengal.
<b>3. Electronics</b>	(i) <b>The Indian Telephone Industries (ITI)</b> — Bengaluru, Karnataka; (ii) <b>The Electronics Corporation of India Ltd. (ECIL)</b> — Hyderabad, Andhra Pradesh; (iii) <b>The Bharat Electronics Ltd. (BEL)</b> — Bengaluru, Karnataka.

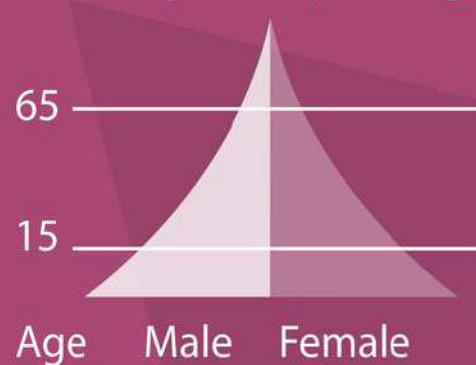
<b>4. Space Technology</b>	<ol style="list-style-type: none"> <li>1. <b>The Indian Space Research Organisation (ISRO)</b>, — Bengaluru, Karnataka.</li> <li>2. <b>Satellite Launching Station</b> — Sriharikota, Andhra Pradesh.</li> <li>3. <b>National Remote Sensing Agency</b> — Hyderabad, Andhra Pradesh.</li> <li>4. <b>Chandrayaan-I</b> — India's First Scientific Mission to Moon.</li> </ol>
<b>5. Software Industry</b>	Bengaluru and Hyderabad.
<b>6. Entertainment</b>	Mumbai, Kolkata, Chennai and Pune
<b>7. Petrochemical Industry</b>	<ol style="list-style-type: none"> <li>1. <b>Herdillia Chemicals Ltd.</b> — Chennai, Tamil Nadu.</li> <li>2. <b>National Organic Chemicals Industries Ltd.</b> — Mumbai, Maharashtra</li> <li>3. <b>Petrofils Cooperative Limited (PCL)</b> — Three plants located at Vadodara and Naldhari in Gujarat.</li> <li>4. <b>Indian Petrochemical Corporation Ltd.</b> — Vadodara, Gujarat.</li> <li>5. <b>The Bongaigaon Petrochemicals Ltd.</b> — Bongaigaon, Assam.</li> <li>6. <b>The Reliance Industries</b>: Hazira, Gujarat.</li> <li>7. <b>Haldia Petrochemicals Ltd.</b>: Haldia, West Bengal.</li> <li>8. <b>The Indian Oil Corporation</b>: Three plants in Gujarat and Panipat.</li> </ol>



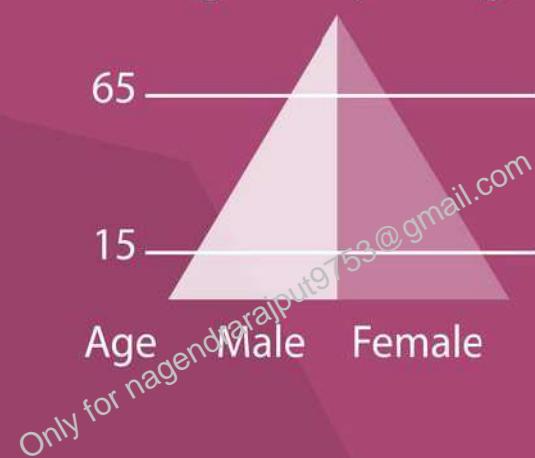
Industrial Regions

## POPULATION PYRAMID SHAPES

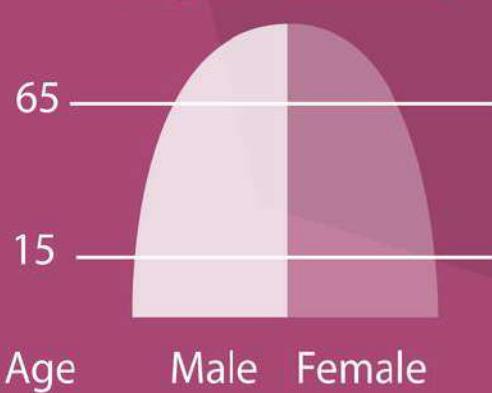
Stage 1 - expanding



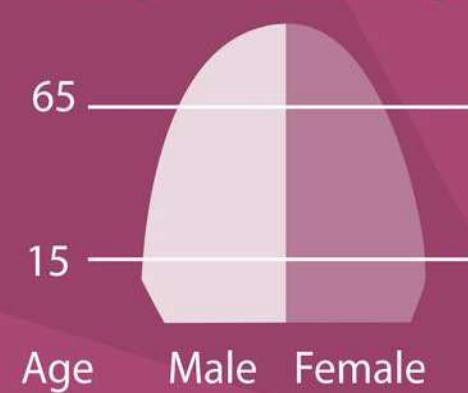
Stage 2 - expanding



Stage 3 - stationary

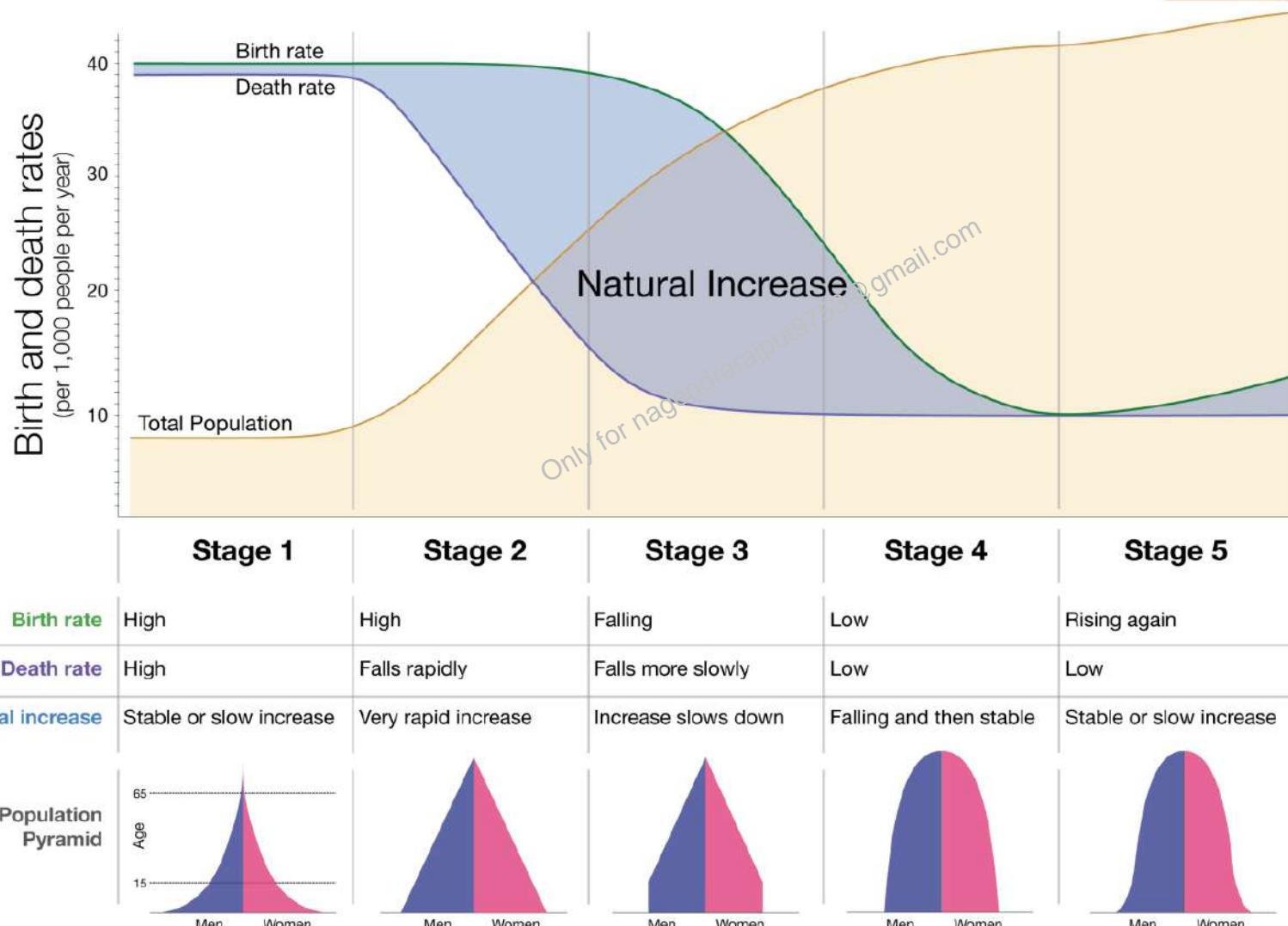


Stage 4 - contracting



# The demographic transition in 5 stages

Our World  
in Data

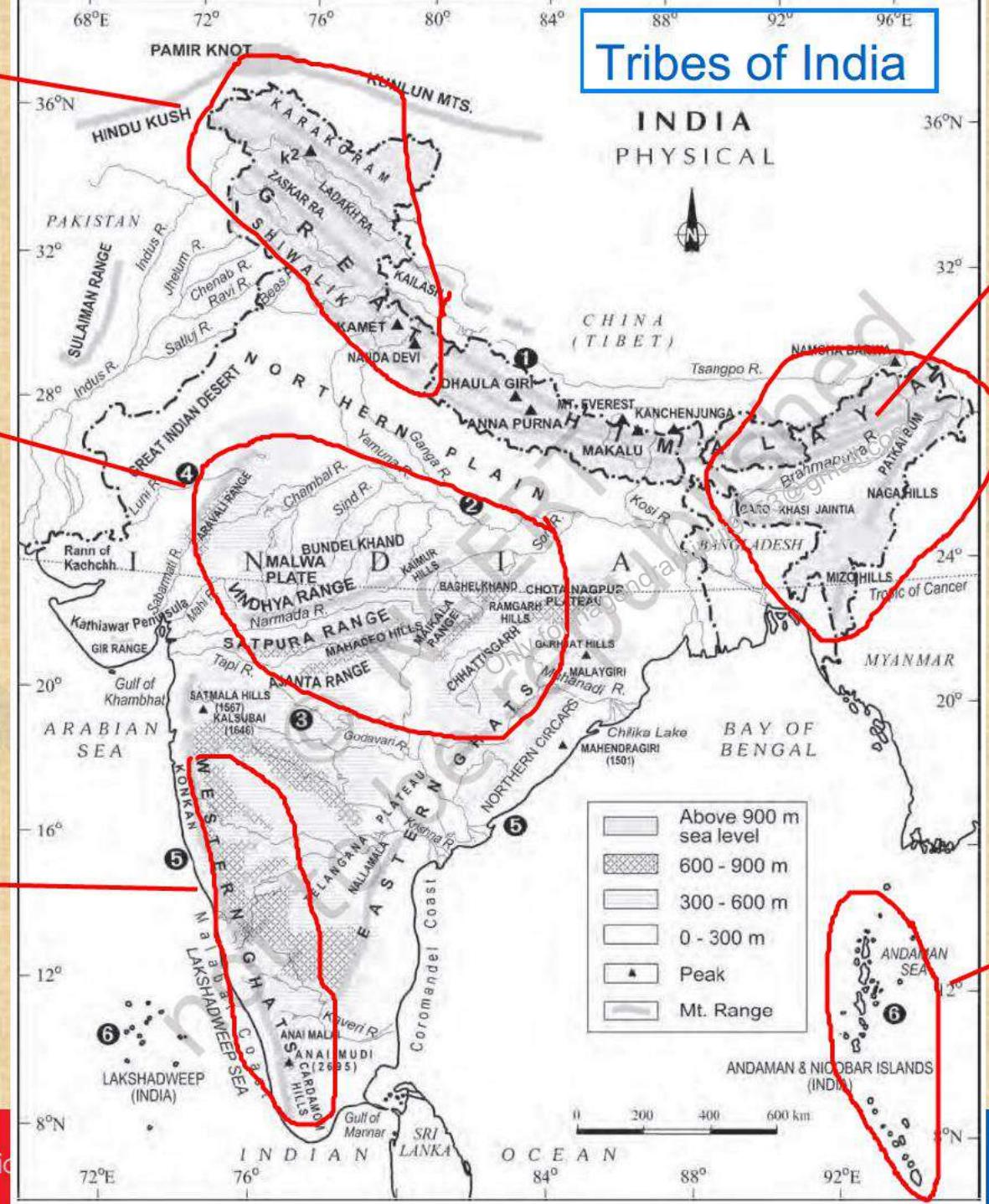


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- Bakerwal
- Gaddis
- Tharu
- Changpa
- Bhotias

- Bhils
- Khonds
- Gond
- Asur
- Munda
- Meena
- Abujmarya
- Bisonhornmarya

- Irulas
- Todas
- Puliyans
- Uralis
- Jenu kurubas
- Chenchu
- Soliga



- Garo
- Khasi
- Jaintia
- Dafla
- Miri
- Abor
- Mishmi
- Naga
- Mikir

- Andamanese
- Nicobarese
- Onge
- Jarawa
- Sentineles
- Shompen



# Questions??



- Online query (For faster reply)

Read and revise what is taught

- Read the reference material
- Mentoring sessions

If Dil Maange beyond MORE...

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