

Recorded Map class 09

1st April, 2024 at 9:00 AM

RIVERS IN INDIA (09:31 AM)

- **Pennneru and Palar rivers** originate from eastern Ghat only (Kolar Plateau).
- Lake Pulicat is located between Palar and Pennneru Rivers.
- The Island of Sri Hari Kota is located in Pulicat Lake only.
- **Kaveri river**
- Originates from Brahmagiri.
- Krishna Raja Sagara Dam is located nearby.
- **Tributaries** from the north are Harangi, Hemavati, Arkavati, and Shimeha.
- **Tributaries** from the South are Kabini, Bhavani, and Amravati.
- **Kabini** is a major tributary that comes from Kerala.
- Kabini flows through Wayanad Wildlife Sanctuary.
- **Shivanasamudra Waterfalls** is located in Kaveri.
- **Hogenakkal** Waterfall is located at the border between Karnataka and Tamilnadu.
- **Mettur Dam** is located on the Kaveri River.
- At the meeting point of Kaveri and Arkavati Karnataka govt is planning a project to supply drinking water to Bangalore.
- Famous riverine islands on the Kaveri River are **Sri Rangapatnam and Srirangam**.
- On both islands, there is a temple of the Srirangaswamy deity.
- **Point Calimere** is located in Kaveri Delta. It is Wildlife Sanctuary and also a Ramsar site.
- **Vaigai river**
- It originates from **Meghamalai in Western Ghat**.
- It passes through Madurai.
- Also mentioned in Sangam literature.
- It drains into Palk Strait.

WEST FLOWING RIVERS OF INDIA (10:05 AM)

- **Ghaghhar river**
- Known from inland drainage.
- It comes from Himachal and flows through Rajasthan.
- **Luni River**
- Important river in eastern Rajasthan.
- It originates from Aravali hills.
- **Sabarmati** also originates from the Aravati hills.
- **Narmada River**
- It originates from Amarkantak.
- Amarkantak is also a Biosphere reserve.
- **Indira sagar reservoir** is located on this river.
- The Statue of Unity is located near the Narmada River.
- The Gujarat govt is planning the **Bhadbhut dam project** near Bharuch on the Narmada River.
- **Tapi river**
- It comes from the Betul plateau of Madhya Pradesh.
- Pachmarhi Reserve is located nearby.
- **Ukai Dam** is located on the Tapi River.
- **Mandovi river**
- Also called the Mahadayi River.
- **Dudhsagar Waterfalls** is located on this river.
- **Zuari river**
- It is the largest river in Goa.
- West flowing rivers in Karnataka are **Netravati and Sharavati**.
- On Sharavati, we have the highest waterfall in India - **Jog Falls**.
- **3 western flowing rivers are there in Kerala-**
- **1) Periyar River**
- It comes from Shivagiri hills in the Western Ghats of Tamilnadu.
- On this river, the disputed Mullaperiyar dam is located.
- **2) Pamba River**
- It ends in Vembanad Lake. This lake is the longest lake in India.
- It is also a Ramsar site.
- **Periyar National Park** is located between Periyar and Pamba rivers.
- **3) BharatPuzha river**
- It comes from Anaimalai Hills.
- **Chalakudy river**
- On this river, Athirapally Waterfalls is located.

RAMASAR SITES (10:34 AM)

- There are 75 ramasar sites in india.
- **Chilika and Kevaladev** are the first Ramasar site in India.
- Kevaladev is a man-made wetland.
- **Montreux record** - It is a list of wetlands that are in deteriorating condition.
- **Bhoj Wetland-**
- Located in Bhopal, Madhya Pradesh.
- It is a man-made lake.
- **Jammu and Kashmir-**
- **Tso Moriri Lake.**
- **Wular lake.**
- **Hokersar Lake-** Very high altitude brackish water lake.
- Located at 4500 meters.
- Black-necked along with snow leopard is found here.
- Tso Moriri is the location of Black-necked Crane.
- **Himachal Pradesh-**
- **Chandra Taal-** Snow Leopard is also found here.
- Lokatak Lake is located in Manipur surrounded by Manipur hills.
- **Keibul Lamjao national park-** Floating biomass called **Phumdi** is found here.
- **Nandur Madhumeshwar Wetland** is located in Maharashtra.
- Beas River is famous for the **Indus River dolphin**.
- Bear River is also known for **Mahrsheer fish**.
- Sundar Ban, East Kolkata wetland (located on Hughly River), upper Ganga region is Ramasar site.
- **Parvati arga** is also a ramasar site.
- Near Agra, **Soor Sarovar Bird Sanctuary** is also located.
- **Lonar Lake** is also a Ramsar site. It is a crater lake.
- **Melghat tiger reserve** is in Maharashtra.
- The nearest Ramasar site in Delhi is Sultan Pur near Gurgaon.
- Sultan Pur is also a national park.
- Major lakes that are not the Ramasar sites are Dal Lake, Pangong Tso, and Pulicat Lake.

BIOSPHERE RESERVE IN INDIA (11:16 AM)

- Biosphere reserves part of the UNESCO MAB programme are:
- **Great Nicobar Biosphere reserve**
- Important National Park - Cambell Bay, Galathea.
- In Galathea national park, Leatherback turtles and Salt crocodiles are found. It is part of Sundaland Biodiversity Hot Spots.
- The Nicobarese tribe is found here.
- **Gulf of Mannar Biosphere Reserve**
- It is from Rameshwaram to Kanyakumari.
- This region is known for its Coral Reefs.
- Dugong (Sea Cow) is found here- It is a marine mammal that feeds on Seagrass.
- **Agasthiyamalai Biosphere Reserve**
- Wildlife Sanctuary in this reserve- Neyyar, Peppara, Shendurni.
- Tiger Reserve- Kalakkad Mundanthukai.
- **Nilgiri Biosphere Reserve**
- Located in the Kaveri River basin.
- It is the junction where the Western Ghats and Eastern Ghats meet.
- National Parks- Nagarhole, Bandipur, Mudumalai, Mukurthi.
- In Kerala, Silent Valley national park is found.
- **Panchmarhi-**
- Located in Betul Plateau.
- Important National Park- Satpura and Bori national park.
- **Panna Biosphere Reserve-**
- It is located in the river basin of the Ken River.
- It is also a tiger reserve.
- Durgavati tiger reserve is also nearby to Panna tiger reserve.
- Maikala Range- Amarkantak is located in it.
- Four-horn antelope is found in Amarkantak.
- **Simlipal Biosphere Reserve**
- named after the **Semul** tree- The red silk tree.
- Inside this, the Simlipal tiger reserve is also there.
- India's only black tiger is found in the Simlipal tiger reserve.
- **Sundarban Biosphere reserve.**
- It is also a national park, a tiger reserve, and a Ramsar site.
- **Nokrek Biosphere Reserve (BR)**
- located in Garo Hills.
- Red Panda is found here.
- **Nanda Devi Biosphere Reserve**
- Valley of Flowers is located here.
- Snow leopard, Himalayan Black bear is also found here.
- **Manas Biosphere**
- **Manas River flows** through this.
- it is also known for the existence of the Golden Langur along with Red Panda and also the Asiatic elephant.
- **Pgymy Hog** - A critically endangered pig species are also found here.
- It is in the Brahmaputra, Dibru and Lohit river basins.

- **Dihang Dibang**
- Musk deer are also found here.
- **Seshachalam biosphere reserve**
- Part of the Palkonda range.
- The slender loris is found here.
- Kadavar Slender loris sanctuary is recently declared.
- **Rann of Kutch**
- It is the largest Biosphere reserve.
- Indian wild ass is found here.
- A special type of grassland called Banni grassland is found here.
- A peculiar phenomenon is observed at night called Chirbatti (lights).
- **Cold Desert Biosphere Reserve**
- In Sarchu and Kibbat snow leopards can be found.

NATIONAL PARKS (NP) IN INDIA (11:48 AM)

- 1.35 % of the geographical area of India falls under NPs.
- M.P. has the highest number of national parks - 11.
- The largest national park is Hemis NP in Ladakh.
- The smallest NP is South button island in Andaman and Nicobar.
- Oldest NP in India - Jim Corbett NP (1936).
- There are 560+ wildlife sanctuaries in India.
- There are 53 notified tiger reserves in India. Two more have been announced but not yet notified.
- 51st TR is Megamalai tiger reserve.
- Ramgarh Vishdhari in Rajasthan is 52nd TR.
- 53rd TR is Ranipur TR in UP.
- 54th TR is Guru Ghasidas.
- 55th TR is Durgavati TR near Panna.

NATION PARK, TIGER RESERVE, WILDLIFE SANCTUARY (WS) IN NORTH EAST INDIA (11:57 AM)

- Buxa TR is also a national park.
- It is located on the border of West Bengal. No tiger reserve in the last census was found here.
- **Assam-**
- **Raimona NP**- Golden langur is found here.
- **Manas** national park and tiger reserve are well protected. Bengal florican is found here.
- **Pabitora** wildlife sanctuary is near Guwahati. it is known for being the highest-density rhino in India.
- **Orang** National Park is also a TR. Gharial is reintroduced here.
- **Kameng** River is found here.
- In Arunachal Pradesh - Pakoi TR and NP, Nameri TR and NP etc.
- **Kaziranga NP (Assam)**- 90% of the rhinos of India are found in Assam and 90% of Assam's rhinos are found in Kaziranga.
- **Talle** wildlife sanctuary near dafila hills in Assam.
- **Maoulung** NP is in Arunachal Pradesh.
- **Dibru Saikhowa** is a NP and WS.
- **Dehing** Patkai - also known as the Amazon of East because of its biodiversity.
- **Namdapha** NP is known for its tropical evergreen rainforest.
- In Mizoram, Dampa TR is located.

TIGER RESERVE IN NEWS (12:07 PM)

- **Gangotri** NP is in the news due to govt permission to construct a road through here.
- **Shivalik** Elephant Reserve near Dehradun.
- **Vikramsheela** in Bihar- India's first Gangetic dolphin Sanctuary.
- Bihar's only TR- Valmiki near Gandak river- recently a vulture conservation programme has been planned here.
- **Bhagwan Mahavir Wildlife Sanctuary** is in GOA.
- In the Western Ghats, Parambikulam TR is located.
- In Gujarat, Barda WS is located. The Gujarat govt has said that this will be a second home for Asiatic Lion.
- Kuno National Park- Cheetah reintroduction programme.
- **Desert** national park, Jaisalmer, was recently selected for the Green agricultural programme by FAO.
- **Gandhi Sagar** WS in MP- recently MP has announced this for Cheetah. Located on the Chambal River.
- **Madhav NP**- Recently tigers have been reintroduced here from Bandhavgarh and Satpura.

NATIONAL HIGHWAYS (NH) (12:16 PM)

- North to south NH is given an even number and east to west NH is given an odd number.
- The longest NH- NH44 runs from Srinagar to Kanyakumari.
- NH48- Delhi to Chennai.
- **Expressways (EWs)** connect two important cities.
- There are 10 expressways.
- 8 EWs are declared , 9th and 10th are proposed.
- NE1- Ahmedabad to Vadodara.
- NE2- Eastern Peripheral Expressway- Expressway to bypass Delhi (From Sonipat to Palwal in Haryana).
- NE3- Delhi Meerut Expressway.
- NE4- Mumbai Vadodara EP.
- **Diamond Quadrilateral** aims to connect 4 cities- Mumbai, Chennai, Kolkata and Delhi using High-Speed railways.
- **Dedicated Freight Corridors**- a total of 6 are there.
- **Eastern dedicated freight corridor (DRC)** - Ludhiyana in Punjab to Donkuni. It is funded by World Bank.
- **Western DRC** runs from JNPT Mumbai to Dadri. It is funded by Japan.
- A total of 11 dedicated industrial corridors are there.
- There are a total of 111 national waterways.
- **Major port and minor port of India-**
- Major ports are under central govt and minor ports operate under state govt.
- There are 12 major ports in India.
- 6 are on the western coast and 6 on the east coast.
- Maharashtra is constructing **Wadhavan** Port.

IMPORTANT TRIBES OF INDIA (12:33 PM)

- Important tribes of Andaman and Nicobar are Andamanese, Nicobrese, Onge, Jarawa, Sentinlese and Shompen.
- Important tribes of central India are Bhils, Khonds, Gond, Asur, Munda, Meena, and Abhujmarya.
- Important tribes of North East are Garo, Khasi, Jaintia, Dafla, Miri, Abor, Mishmi, Naga, and Mikir.

IMPORTANT PLACES IN NEWS (12:36 PM)

- Bani Grassland.
- Munroes island in Kerala- this island is sinking.
- Hussain Sagar Lake in Hyderabad is highly polluted and its area is decreasing.
- Sanchi will be India's first solar city.

The syllabus of Mapping is complete.