Map Class 08

20th May, 2024 at 1:00 PM

RIVERS OF INDIA (1:22 PM)

- Himalayan Rivers:
- 1. Indus:
- Originates near Mansarovar.
- It drains into the Arabian Sea.
- Indus enters India near Demchok.
- It passes through the region between Ladakh and Zaskar.
- Tso Moriri is a Ramsar Site.
- Tso Kar is also a Ramsar Site.
- Black-Necked Crane is found in the Tso Kar region.
- **Hemis National Park** is located here.
- **Zaskar** River is one of the earliest **left-bank** tributaries of the **Indus**.
- Shyok River originated from the Rimo glacier near Siachin.
- Gilgit River joins the Indus in POK.
- The Kabul River comes from Afghanistan and joins the Indus in Pakistan.
- Five major tributaries of the Indus:

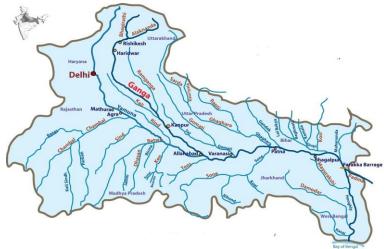


- i .lhelum³
- It originates from Verinag in Jammu and Kashmir.
- Wular Lake is located on Jhelum.
- Wular is a Ramsar site.
- ii. Chenab:
- It originates from Himachal Pradesh.
- It merges with Jhelum in Pakistan.
- Chenab is made of two rivers named Chandra and Bhaga.
- Chandra originates from the Chandratal and Chandratal takes its water from Barashigri.
- Chandratal is a Ramsar site.
- Bhaga originates from Surajtal.
- Cold Desert Biosphere Reserve is located in Himachal Pradesh.

- Pin Valley National Park is also located in this Biosphere Reserve.
- Kibber Wildlife Sanctuary is also located here.
- Dachigaham National Park is known for Hangul and is located in Srinagar region.
- Kishanganga Project is a run-on river project and is on the Nelam-River (one of the tributaries of Jhelum).
 Nelam is known as Kishanganga.

(Snow Leopard found in this region)

- River water projects: (on Chenab)
- a. Pakkal Dul on a tributary of Chenab
- b. Kwar on Chenab Pakkal Dul in RKB
- c. Ratle on Chenab India highest Railway Bridge (359m) is built on Chenab to connect Jammu and Srinagar.
- d. Baglihar on Chenab Amarawati comes from Amarnath is also a tributary of Chenab.
- iii. Ravi:
- It originates from Kullu hills in Himachal.
- it flows between the Pir Panjal and Dhauladhar ranges.
- iv. Beas:
- It originates from the Rohtang Pass.
- Pong Dam is constructed on the Beas River.
- Pong Reservoir is a Ramsar site.
- The entire stretch of the Beas River in the Punjab plains is a conservation site and is a Ramsar site.
- v. Satluj:
- It originates in Tibet from the Rakshas Tal.
- Nangal Reservoir is a Ramsar site.
- Satluj flows at first west-northwest for about 260 km to the Shipki La pass, entering India in Himachal Pradesh state.
- The Satluj River sand is said to have Tantalum mineral in it.
- Tantalum mineral is used in the electronics industry.
- Harrike Barrage is a Ramsar site.
- Renuka Wetland is in Himachal Pradesh and it is the smallest Ramsar Site in India.
- 2. Ganga:
- It originates from the Cangotri glacier
- Dhauli Ganga comes from the Niti pass.
- Alaknanda originates from the Sartopanth glacier.
- **Rishi Ganga** comes from the **Nanda Devi glacier** and the region around it is the Nanda Devi Biosphere Reserve.
- Valley of Flowers National Park is in this Biosphere Reserve.
- Dhauli Ganga confluence with Alaknanda at Vishnu Prayag.
- Joshi Math is located around Vishnu Prayag.
- Nandakini merges with Alknanda at Nanda Prayag.
- Pindar Ganga originates from the Pindari glacier and merges with Alaknanda at Karna Prayag.
- Mandikini merges with Alaknanda at Rudra Prayag.
- Bhagirathi merges with the Alaknanda at Deva Prayag.
- Ganga's name is given to this river from Deva Prayag.
- Gangotri National Park is around the Gangotri region.
- Rajaji National Park is around the region of Rishikesh and Haridwar.
- Ganga flows majorly from 5 states namely Uttarakhand, UP, Bihar, Jharkhand, and West Bengal.
- The upper stretch of the Ganga River is a Ramsar site.
- Sunderban is the largest Ramsar Site in India.
- Important tributaries:
 - -> Upper Ganga of UP is Ramsar site.
 - -> Water discharge of both Ganga and Brahmaputra combine is 3rd largest in the world after Congo and
 - -> Farakka barrage is formed at the boundary between India and Bangladesh.
 - -> Hooghly is a distributary of Ganga from Farakka barrage which flows through WB and also known as Bhagirathi.
 - -> At Hooghly we have Kolkata and East Kolkata wetland is also here and finally it forms part of Sunderbans delta which is a Ramsar site.
 - -> Sunderbans is a Biosphere reserve also.



- Left-bank tributaries of Ganga:
- a. Ram Ganga:
- It comes from Uttarakhand from Pauri Garhwal.
- It passes from India's first national park Jim Corbett.
- It joins Ganga near Kannauj.
- b. Gomti:
- It comes from Pilibhit.
- Pilibhit Tiger Reserve is located here in this region.
- c. Ghaghra:
- It is an antecedent river that comes from Tibet.
- It merges with Ganga just after entering Bihar.
- Yankti Kuti is the tributary of the Kali River.
- Sarda as well as Rabti merges with Ganga in UP only.
- Ayodhya is located on the banks of Ghagra (known as Saryu in Ayodhya as Ghagra has a tributary named Saryu).
- d. Gandak:
- It merges with the Ganga in Bihar.
- it is also known as the **Narayni** River in **Nepal**, from where it originates.
- Between Gandak and Budhi Gandak is a Kanwar Lake.
- e. Kosi:
- It is also an antecedent river coming from Tibet.
- it is also known as Sapta Kosi.
- It has 7 tributaries: Indrawati, Sun Koshi, Tama Koshi, Likhu, Dudh Koshi, Arun Koshi, and Tamor Koshi.
 Indra Sun mein Arun aur Tamor ko Dudh aur Tamatar ko hisab Likhu.
- It is also known as the sorrow of Bihar.
- Bagmati River is a transboundary river between India and Nepal which originates in Nepal.
- f. Mahananda:
- It originates in **Darjeeling** Hills, passes through the Siliguri corridor, and merges with Ganga in Bangladesh.
- Right-bank tributaries of Ganga:
- a. Yamuna:
- Asan barrage is a Ramsar site.
- Tribuaties of Yamuna: Tons, Chambal, Ken, Betwa, Rihand, etc.
- Chambal originates in Mhow.
- Shipra River originates in Ujjain and is a tributary of Chambal.
- Other important tributaries of Chambal are Banas, Kali Sindh, and Parbati.
- Gandhi Sagar Wildlife Sanctuary is located at the border of MP and UP, and the second batch
 of cheetahs is to be brought into this region.
- Ajay and Damodar are the tribuatires of Hooghly.
- Damodar is known as the sorrow of Bengal. (but now we constructed a series of dam)
- Four dams on Damodar: Tilaiya, Maithon, Konar, and Panchet Hill. (TuM PK) Panchat and Konar.
- -> Panna Biosphere reserve is a tiger reserve near Ken river.
- -> because of Ken-Betwa project or because of construction of Dhaudhan dam on Ken river some part of Panna biosphere reserve will get submerged so govt. of MP is making Durgawati tiger reserve.
- -> Amarkantak is a biosphere reserve.
- -> Son river originates from Amarkantak and flows between Vindhyas and Kaimur and merges near to Patna with Ganga.
- -> Rihand is tributary of Son and region around Rihand we found white tiger in Rewa (MP).

- **Bhoj Wetland** is in MP. (in Bhopal)
- Parbati Arga is an old oxbow lake of Ghagra and it is a Ramsar site.
- Kanwar Lake is also known as Kabar Tal.
- Sultanpur Wetland and Dhanori Wetland.
- Vikramshila Vikranshila Dolphin Sanctuary is India's first dolphin sanctuary on the Ganga River in Bihar.
 - Sariska Bihar's Tiger Reserve is the only Bihar's tiger reserve on the Gandak River.
 - Sariks Tiger Reserve and Ranthambore Tiger Reserve are located in Rajasthan.
 - Ramgarh Vishdhari Tiger Reserve. -> Dholpur Karauli tiger reserve.
 - 3. Brahmaputra:
 - It originates from Chemyang dung and Angsi near Mt. Kailash.
 - This river takes a U-turn at Namcha Barwa.
 - It is known as Tsangpo in China.
 - It enters Assam at Sadiya, and it is called the Brahmaputra.
 - From Sadiya to Dhubri it is national waterway 2.
 - It is called as Jamuna in Bangladesh.
 - Brhamputra + Ganga = Padma.
 - Padme merged with a few other rivers and is called as Meghna in the lower stretch of Bangladesh.

One of the important rivers that merge with Padma is Surma (known as Barak in India) which is called **Meghna**.



- Right-bank tribuatires of Brahmaputra:
- Arunachal: Subarnasiri and Kaming.
- Subarnasiri has a small tributary is Ranganadi.
- At the confluence of Brahmaputra, Subarnasiri and Ranganadi is the world's largest riverine island Majuli.
- Kaming is known as **Jia Bareli** in Assam.
- Bhutan: Manas and Sankosh.

 joins Brahmaputra in Bangladesh.
- Tista comes from Zemu Glacier Tso Lhamo.
- Left-bank tributaries of Brahmaputra:
- Burhi Dihing and Dhansari (South), Dibang or Sikang and Lohit.
- Lohit + Bihang = Brahmaputra.
- The longest riverine bridge is located on the Lohit River named Bhupen Hazarika Bridge.
- Barak comes from Manipur and is called Surma or Kushyara.
- The Brahmaputra is the 5th largest river of the World.
- National Parks/Wildlife Sanctuaries/Biosphere Reserves:
- Pakke National Park.
- Orang Tiger Reserve.
- Manas Biosphere Reserve.
- Dihang-Dibang Biospehre Reserve.
- Dibru-Saikhowa Biospehre Reserve.
- Keibul Lamiao National Park (Imphal river in news).
- Gomati, Tripura's longest river joins Meghna.
- Dhubri-Phulbari Bridge is the longest riverine bridge in India still under construction.
 - -> Dhansiri comes from Naga Hills.
 - -> Kopili River originates from the Barail range.
 - -> Bhogdoi is a tributary of Dhansiri in Assam.
 - -> Bhogdoi is considered as most polluted river of Assam because of Coal mining.
 - -> Brahmaputra earlier has channel named Deepor Bheel (Oxbow lake) near Guhwati is a Ramsar site.
 - -> So, Deeper Bheel is old channel of Brahmaputra.
 - -> On Dibang river a new hydro power project is launched.
 - -> Loktak lake is also a Ramsar site.

Rudrasagar is a Ramsar site of Tripura.



- Pala wetland is the largest natural wetland of Mizoram.
- Buxa National Park.
- Raimona National Park.
- Nameri National Park.
- -> Kaziranga National park is in Assam.

(In Arunachal Pradesh)

- Talle Wildlife Sanctuary.
- Mouling National Park.
- Namdapha National Park.
- Manas National Park.
- Pobitora Wildlife Sanctuary.
- Kanchenjunga National Park.
- Nokrek National Park.
- Dampa National Park.
- Peninsular River System: (3:58 PM)



- Subarnarekha, Mahanadi, Bairtarni, Brahmani, Vamsadhara
- Sukapaika is one of the distributaries of Mahanadi which was earlier blocked due to flood.
- Vamsadhara:
- It flows between Odisha and Andhra Pradesh.
- Vamshadhara_Nagavalli interlinking project by the Andhra Pradesh.
- It passes through the northern Circar.
- Satakosia is a gorge through which the Mahanadi flows and is a Ramsar Site and also has Satkosia Tiger Reserve.
- The Simplipal Biosphere Reserve of Odisha is a UNESCO-recognised biosphere reserve.
- Chilika Lake.
- Bhitarkanika.
- Gahirmatha Wildlife Sanctuary is well known for the Olive Ridley turtle.
- Rushikulya Delta is also known for the Olive Ridley turtle.
- Hirakud Dam is declared as a Ramsar Site.
- 1. Godavari:Nasik.
- It has only one important right-bank tributary named Manjra.
- It has 3 left-bank tributaries: Pen Ganga, Wen Ganga, and Wardha.
- All the three merge to form Pranhita. (Then Pranhita merge with Godavari.)
- Nandur Madhukeshwar is a Ramsar site on Godavari.
- Kalleshwaram is a lift-irrigation project. -> Indrawati and Sabari is also left bank tributary of Godavari.
- Indravati is known for Chitrakoot Waterfall.
- 2. Krishna: Mahabaleshwar.
- 3. Tungabhadra:
- -> Penneru and Palar comes from Nandi hills.
- **Right-bank tributaries**: The Ghatprabha, the Malprabha, and the Tungabhadra. **Left-bank tributaries:** The Bhima, the Musi, and the Munneru.
- The major Hydro Power stations in the basin are Koyna, Tungabhadara, SriSailam, Nagarjuna Sagar, Almatti, Naryanpur, and Bhadra.
- Srisailam Tiger Reserve is the largest tiger Reserve in India.
- Mandovi River has a **Dudhsagar** waterfall.
- Mandovi River has Kadasa and Banduri as its tributaries. (In Karnataka)
- Cardamom Hills: Vaigai.
- 4. Kaveri:
- The Kaveri rises in the Brahmagiri hills of the Kogadu district in Karnataka.
- In Karnataka the river bifurcates twice, forming the sacred islands of Srirangapatnam (last Anglo-Mysore war was fought here) and Sivasamudram.
- Hogennekkal Falls is found here. -> Near Srirangam and Trichy India has its oldest dam Kallanai (1000yr old), built during Cholas.

ToCancer twice and drains into Gulf of Khambat.

- **Srirangam Island** is also formed by this river.
- On the Kaveri branch lies the Grand Anicut said to have been constructed by a Chola King in 1st Century A.D.
- Silent Valley National Park is found here.
- Tributaries: Arkavathy, Shimsha, Hemavati, Kapila, Shimsha, Honnuhole, Amaravati, Lakshmana Kabini, Lokapavani, Bhavani, Noyyal, and Tirtha.
- Agasthyamalai Biosphere Reserve is located in this region.
- Gulf of Mannar Biosphere Reserve.
- 5. Luni:
- It flows from Sambhar Lake, a Ramsar site.
- It drains into Kutch.
- The Great Rann of Kutch is the largest Biosphere Reserve in India.
- 6. Sabarmati:
- -> Mahi river originates from Vindhayas and cuts **Thol** Lake is declared a Ramsar Site.
- 7. Narmada:
- It originates in Amarkantak.
- Wadhavan Wetland is a recently declared Ramsar site.
- India's largest reservoir Indra Sagar is on this river.
- 8. Tapi:
- It originates in Beitul.
- -> Vaigai river originates from Cardamom hills.
- -> Where Sabari river confluence with Godavari we have Papikonda national park and AP govt. is implementing a project named Polavaram dam and Pattiseema lift irrigation project this project is a Krishna-Godavari linkage project.

 -> Between Godavari and Krishna Kolleru lake is present which is a Ramsar site.
- -> Penneru while crossing Eastern Ghats make a deep gorge named Gandikota canyon and also known as Grand Canyon of India.

- -> Penneru passes through Rayalseema plateau.
 -> Palar river flows through south of Chennai city and a canal connecting Chennai and Palar river provides water to Chennai.
- -> On Palar river Kanchipuram is situated.

- The entire region is a biosphere reserve named Panchmarhi Biosphere Reserve.
- Locations in News at World level: (4:45 PM)
- Netzarim Corridor:
- It is made by Israel to pass through the Gaza Strip.
- It is also known as Route 749.
- Rafah Crossing: It is a crossing from Gaza to Egypt.
- **Erez**:It is also in Gaza. (in front side of Rafah crossing)
- Dagestan: Russia
- Karakalpakstan.
- North Macedonia.
- Vale dp Javari (Amazon Forest)
- Nicaragua
- Paraguay
- Poyang Lake
- Bosnia
- Croatia
- Oder River

NOTE:The Map syllabus concluded.

- -> Darfur: Sudan
- -> Burkina Faso, Niger and Mali.
- -> Haiti.
- -> Turkey
- -> Zmiinyi island
- -> Karakalpakstan is in Uzbekistan.
- -> North Macedonia.
- -> Vale Do Javari.
- -> Nicaragua.
- -> Paraguay.
- -> Lake Garda the largest lake of Italy.

- -> 12 major ports.
- -> National Highways.
- -> Expressways. (denoted by NE, remember 1st 4)
- -> Tribes