

Active Volcano: Those which have erupted in the observed history of mankind.
Dormant Volcano: Those which have erupted and have chances to erupt again.
Extinct Volcano: Those which won't erupt in future.

Map Class 04

10th May, 2024 at 1:00 PM

A BRIEF REVISION OF THE PREVIOUS CLASS (01:15 PM):

- Petermann Glacier - Greenland.

PHYSICAL FEATURES (CONTINUATION FROM THE PREVIOUS CLASS) (01:31 PM):

- **Volcanoes:**
- **North America:**
- **Mt Saint Helens** - Active.
 - (World's largest recorded landslide).
- Mauna Loa - Active, **Shield Volcano**, last erupted in **2022**, the World's largest volcano by area.
- **Mauna Kea** - Dormant.
- Kilauea - Active Shield Volcano
- **South America:**
- Ojos del Salado - World's highest active volcano (**Strato volcano**).
- Cotopaxi - Active. (in Ecuador)
- Chimborazo - Active. (in Ecuador)
- **Africa:** (in Africa they form because of rift valleys)
- **Mt Kilimanjaro**. (Active Volcano)
- **Mt Kenya** - Located on the equator.
- **Mt Nyiragongo** - Highly active, known for extremely fluid lava.
- **Europe:** (Greenland is on Mid Atlantic Ridge so there are so many volcanoes here)
- Mt Vesuvius (Italy) - Active, it has multiple smaller vents.
- Mt Etna (Sicily island) - Tallest active volcano in Europe.
- **Stromboli** - **Between Italy and Sicily**, known for explosive violent eruption.
- **Asia:**
- **Barren volcano** - Only active volcano in South Asia.
- **Narcondum volcano** - Dormant.
- Mud volcano - Baratang island. (in Andaman and Nicobar)
- **Krakatoa** - Active, most violent eruption happened in **1883**
- **Mt Merapi** - Active (Java island), known for pyroclastic flow. Erupted in **2024**.
- **Mt Sinabung** - Indonesia's most active volcano.
- Taal volcano - Ash and Cindercone (Philippines).
- **Mt Fuji** - Japan's highest volcano, active volcano.
- **New Zealand:**
- **Whakaari**/White Island - Active.
- **Recently erupted volcanoes (02:12 pm):**
- Mt Fuego - **Guatemala** (**2024**).
- La Soufriere volcano - Carribean island (**2021**).
- Popocatepetl - Mexico (**2022**).
- Nyamuragira - Democratic Republic of Congo (**April 2024**).
- La Palma - Spain (**2021**). (at Canary island)
- Mt Semeru - Indonesia (**April 2024**).
- Mt Lewotolo - Indonesia (**April 2024**)
- Aira - Japan (**April 2024**)
- **Hunga Tonga** - Underwater volcano (**2022**), the largest volcanic eruption of the **21st** century.

All three are in Hawaii island

(Indonesia's volcanoes are mostly active.)

-> Do remember two things about river -
1. Where it is.
2. Where it meets with ocean.

- **Rivers and lakes (02:23 pm):**

- **North America:**

- Yukon River in Alaska - Drains into Bering Sea, known for **gold placer** deposits.
- Mackenzie River - Canada's longest river, **drains into the Arctic Ocean.**
- Mississippi River - USA, Shows **dendritic pattern**, drains into the Gulf of Mexico, forms **bird foot** delta.
- Colorado River - Flows through the Colorado plateau, and drains into the Gulf of California, creating the **Grand Canyon.**
- Colombia River - Drains into the Pacific Ocean.
- **St Lawrence River** - Drains into the Atlantic Ocean, known for Niagra waterfall, forms the boundary between USA and Canada.
- Hudson River - Drains into the Atlantic Ocean near New York.
- Rio Grande River - Forms the boundary between USA and Mexico.

- **Lakes:**

- **North America:**

- **Great lakes** - Lake Superior, Lake Michigan, Lake Huron, Lake Erie, Lake Ontario.
(Code: Superman helps every one)
- Between Superior and Huron - Soo Canal.
- Between Erie and Ontario - Welland Canal.
- Between Erie and **Hudson** - Erie Canal.
- Lake Superior - Largest freshwater lake on the surface of the earth.
- Lake Michigan - Completely located inside the USA (Rest four are between the USA and Canada).
- Great Bear (Arctic Circle passes through it) and Great Slave Lake - Canada.
- **Lake Tahoe** - USA, Freshwater lake (water level is decreasing rapidly).
- Great Salt Lake - Saltiest waterbody of North America.

- **South America:**

- **Orinoco River** - Drains into the Atlantic Ocean.
- **Amazon River** - The largest (by water volume) river on the surface of the earth, also the **2nd longest river**, originates from the Andes and drains into the Atlantic Ocean, the World's widest river. (**2nd widest** - Brahmaputra River), its basin covers half of South America and has **50%** of the rainforest.
- Parana River - Comes from Brazil and drains into Rio De La Plata.
- Paraguay and **Uruguay River** - Tributaries of Parana River.
- Iguacu waterfall - Largest **cascading waterfall** in the world.
- **Lakes:**
- Lake Titicaca - Largest freshwater lake of South America, located on the Andes, the World's highest commercially navigable lake, it is shrinking due to climate change.
- **Lake Maracaibo** - The largest lake of South America, known for very high deposits of Petroleum and gas.

Amazon Basin has all South America's countries except Paraguay, Chile, Argentina and Uruguay.

- **Africa (03:23 pm):**
- Nile River - Longest river on the surface of the earth (**6600 Km**), it passes through Khartoum (capital of Sudan)
- White Nile - Comes from **Lake Victoria**. (Both White and Blue Nile meet at Khartoum which is the capital of Sudan)
- **Blue Nile** - Comes from Lake Tana.
- Congo River - It cuts the equator twice, its basin is bigger than India itself, known for Stanley Waterfall.
- Niger River - Drains into the Gulf of Guinea, the lifeline of the Sahel and Savana region.
- **Zambezi River** - Known for Victoria Waterfall.
- Limpopo River - Crosses the Tropic of Capricorn twice.
- **Lakes:** (Along East African Rift Valley) (Remember their order)
- Lake Assal - The lowest point of Africa (Djibouti).
- Lake Tana.
- Lake Turkana (-> They all are elongated because they all are in rift valley)
- **Lake Victoria** - **3rd largest** lake on the Earth, The Equator passes through it, it is located in three countries - Tanzania, Uganda, and Kenya.
- Lake Tanganyika - **2nd longest lake, 2nd deepest lake, 2nd largest lake by water volume.**
- Lake Nyasa/Malawi
- **Europe (03:43 pm):**
- **Thames River** - Drains into the North Sea.
- Rhine River - Originates from the Alps, and flows through six countries (Germany, France, Switzerland, Netherlands, Austria, and Liechtenstein)
- Tagus River - Originates from Spain, **Lisbon city** is located on this river.
- **Seine River** - Paris is located on this river.
- Rhone River - Drains into the Mediterranean Sea.
- Tiber River - Rome is located on this river (Cuspade delta).
- **Danube River** - Originates from the Black Forest and drains into the Black Sea.
- Dneister River.
- Dneiper River - Ukraine, Pripyat tributary flows through Chornobyl.
- Don River - Comes from Russia and drains into the Sea of Azov.
- **Volga River** - Drains into the Caspian Sea, Europe's longest river.
- **Ural River** - Forms boundary between Europe and Asia.
- **Lakes:**
- Lake Geneva - Switzerland.

(These rivers are well connected with inland water ways.)

- **Asia (03:57 pm):**
- Amur Darya and Sir Darya - Drains into the **Aral Sea**.
- Lina River. } There are so many rivers in Siberian region which drains in north and south side among them
- Ob River. } Lina and Ob rivers drains into Arctic ocean.
- Tigris River. }
- Euphrates River. } Drains into Persian Gulf.
- Amur River - Forms the border between China and Russia, and drains into the Sea of Okhotsk.
- Yellow River/ **Hwang Ho** River - Drains into the Yellow Sea, called **Sorrow of China**.
- **Yangtze River** - The longest river of Asia, **3rd longest** river of the world, drains into the East China Sea.
- **Chu Kiang River** - Drains into the South China Sea, known as the Pearl River.
- Irrawaddy River - Myanmar. }
- **Salween River**. } Drains into Andaman Sea
- **Chao Phraya River** - Thailand, Bangkok is located on the bank of this river.
- **Mekong** - Flows all the countries of Indo-China, and drains into the South China Sea.
- Jordon River - Originates from Golan Heights and passes through the Sea of Galilee (the lowest freshwater lake on the surface of the earth).
- **Lake:**
- **Lake Baikal** - Siberia, Largest lake by volume, deepest lake (average depth **800-1000 m**), longest freshwater lake, it carries **23%** of the surface freshwater, it is oldest and clearest lake.
- Lake Balkhash (Kazakhstan)
- Aral Sea
- Caspian Sea - Five times bigger than the second-largest lake.
- **Dead Sea** - **Second highest saline water** body on the surface of the earth.
- Lop Nur Lake - Was a nuclear testing site of China.
- Tonle Sap - Cambodia, UNESCO Biosphere Reserve.
- Lake Toba - Caldera Lake (In Sumatra)
- Kawan Ijen - World's largest acidic lake. (Kawah Ijen Caldera Lake in Java island)
- Lake Kaji Sara - Nepal, it is the world's highest lake. (Almost at 5200m)
- **Australia (04:09 pm):**
- Darling River. }
- Murray River. } Murray is the tributary of Darling and together this is known as Murray-Darling river.
- Lake Eyre - The lowest point of Australia.

TOPICS FOR THE NEXT CLASS: Indian Geography Mapping.