

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.)

Ulwan Volcano of Papua New Guinea erupted in November 2023 our PM has released 1M dollar relief fund when he visited Papua New Guinea.

-> 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 Lina and Ob rivers drains into Arctic ocean.
- Ob River. }
- Tigris River. } Drains into Persian Gulf.
- Euphrates River. }
- 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)
- Kawah 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. Darling Downs are temperate grasslands.
- Lake Eyre - The lowest point of Australia.

TOPICS FOR THE NEXT CLASS: Indian Geography Mapping.