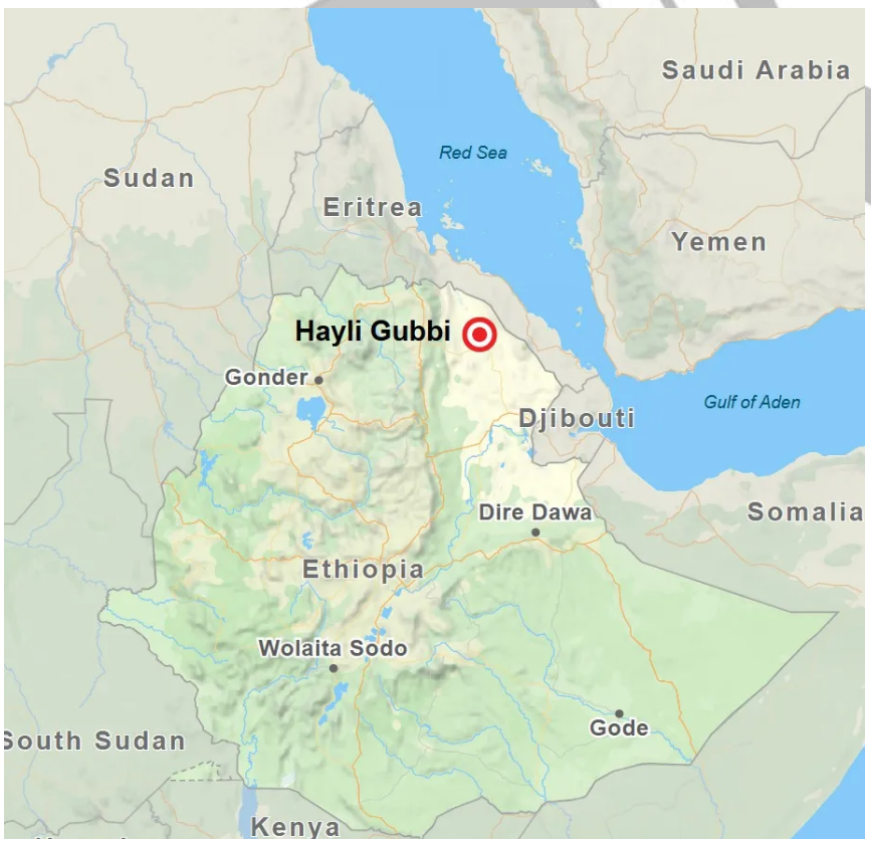
Hayli Gubbi Volcano | National Current Affairs | 25 Nov 2025

Why in News?

The **Hayli Gubbi volcano in Ethiopia** has erupted explosively, sending high-altitude ash plumes thousands of metres up, some of which have drifted into **Indian airspace**, triggering **aviation advisories**.

Key Points

- Hayli Gubbi volcano is located in **Afar, northeastern Ethiopia**, within the **Danakil Depression** - one of the **hottest and lowest places** on Earth.
- The current eruption is significant because the volcano is believed to have **erupted after nearly 12,000 years**, based on geological evidence from the Afar Rift.
- The Hayli Gubbi eruption highlights the **geological volatility** of the **East African Rift System (EARS)** where active volcanism, fissure eruptions, and **spreading ridges** are common.
    - It is one of the world's most tectonically active rift systems where the **Arabian, Nubian, and Somali plates** are diverging.
- The region is characterised by **basaltic lava**, fissure systems, and frequent **seismic activity** linked to the continental rifting process.



Volcanic Ash & Aviation Risks

- **Volcanic ash** is made of tiny, abrasive particles of rock and glass that can melt inside **jet engines** and cause serious damage.
- Jet engines can **stall** when ash **melts and re-solidifies** on turbine blades.

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