Heat Dome

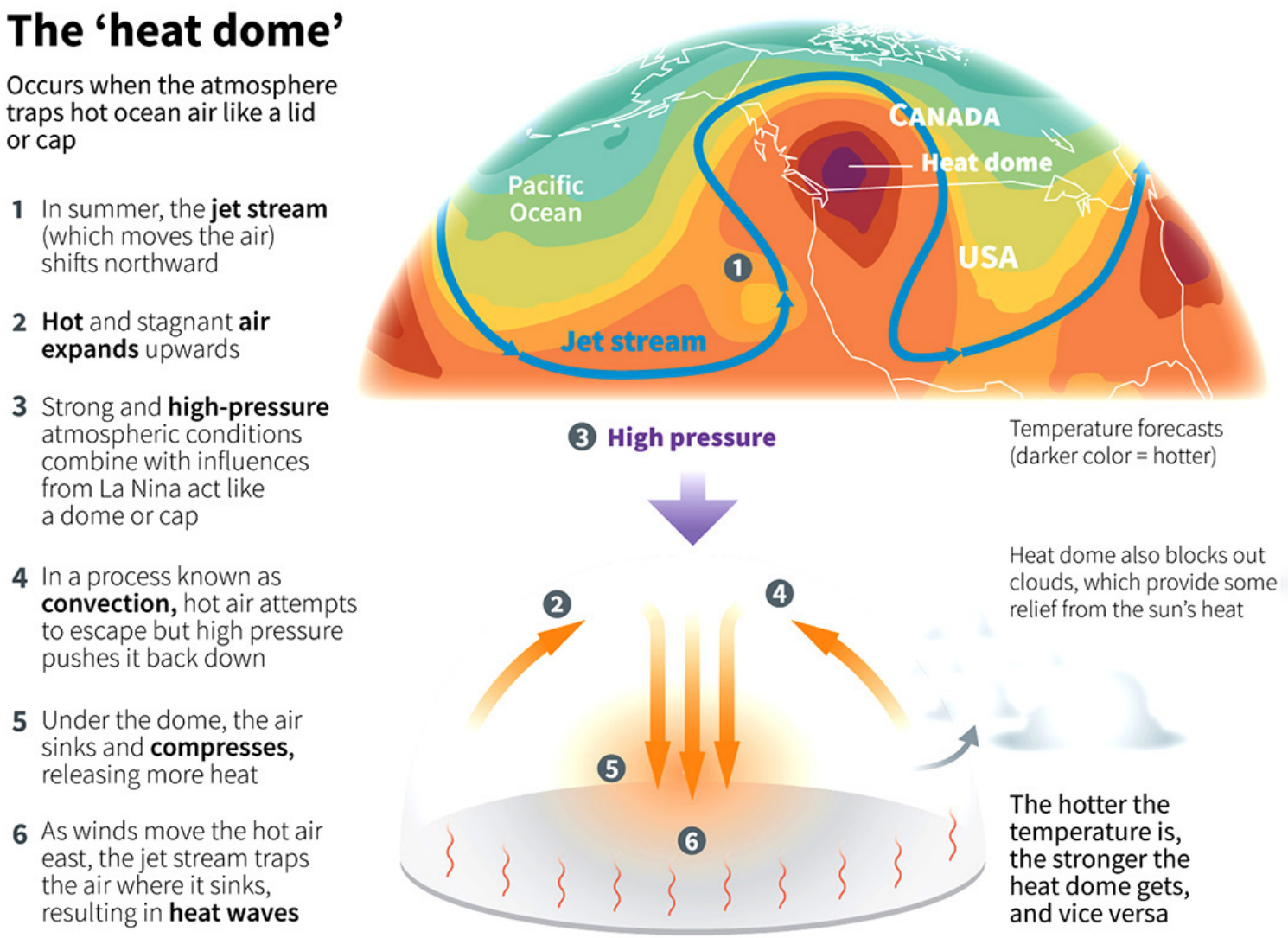
By IASToppers | 2024-06-10 15:30:00

Heat Dome

Cities across southern and western states in the United States issued warnings and opened cooling centres to deal with **heatwaves** caused by the **Heat dome**.

[Ref: reuters]

About Heat Dome:



[Ref: inf.news]

- A heat dome is a meteorological phenomenon where **high-pressure atmospheric conditions** trap warm air, causing prolonged periods of **high temperatures**.
- **Formation**: Heat domes form when strong, high-pressure systems remain over an area for an extended period, compressing and heating the air below.
- **Climate Change Impact**: Climate change is intensifying heat domes, making them more frequent and severe.
    - Warmer global temperatures contribute to the persistence and strength of high-pressure systems.
- **Recent Examples**: The North American heat dome in 2021 caused record temperatures and severe health impacts. Similar events have been observed worldwide.
- **Consequences**:
    - Extreme heat waves,
    - Increasing the risk of heat-related illnesses,
    - Wildfires, and
    - Infrastructural damage.

