

Polar Anticyclone

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Polar Anticyclone Latest News

Recently, Chile and Argentina ranked among the coldest places on Earth, outside the polar regions as polar anticyclone grips.

About Polar Anticyclone

- It is a wind system associated **with a region** in which **high atmospheric pressure develops over** or in the vicinity of the poles.
- The polar anticyclone is strongest in the cold season of the year.
- **Examples:** The Siberian anticyclone is an example of a polar anticyclone, as is the high-pressure area that forms over Canada and Alaska during the winter.

Formation of Polar anticyclones

- Polar anticyclones are created by the **cooling of surface layers of air**.

- This cooling causes the **air near the surface to become denser and**, at the same time, causes an inflow of air at high levels to replace the denser, sinking air.
- These processes increase the mass of air above the surface, thus creating the anticyclone. The weather within the central regions of these anticyclones is typically clear and quite cold. The strength of polar anticyclones is **greatest near the Earth's surface**.
- It **frequently migrate eastward** and equatorward in the winter season, bringing cold waves to warmer latitudes. In the summer they provide cool, dry weather as they move toward the Equator.
- The boundary separating **the cold polar** air from **the warmer air is called the polar front**, and along this frontal surface the extratropical cyclones, or wave cyclones, form.

Source: UN

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