

Topic wise content



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Sun Halo/Kaleidoscope Effect

Notes for civil services preparation





Sun Halo/Kaleidoscope Effect

The **people of Bangalore witnessed a bright rainbow ring around the sun** for a few moments - a rare optical and atmospheric phenomenon called **"22 degree** circular Halo".

Key Point



- The phenomenon **popularly known as the 22 degree circular halo of the sun or occasionally the Moon** (also called a moon ring or winter halo), **occurs** when the sun's or moon's rays get deflected/refracted through the hexagonal ice crystals present in cirrus clouds.
- This is also called the Kaleidoscopic Effect.
- These halos are called 22-degree halos, as the halo or ring has an apparent radius of 22 degrees around the sun/moon.
- **Circular halos specifically are produced by cirrus clouds,** which are thin, detached, hair-like These clouds are formed very high up in the atmosphere, at a height of over 20,000 feet.
- Just like a rainbow, a halo is visible when viewed from the right angle sometimes appearing just white but often with colours of the spectrum also clearly present.





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- The halo is the **brightest at the inner edge** of the circular disk, with no light inside the disk as no light is refracted at smaller angles.
- Red light is refracted less than other colours of light, so the halo's inner edge is reddish. Other shades typically tend to overlap and wash out.



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