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Characteristics

Eruptive and quiescent varieties

Curving loops are anchored by differing magnetic poles

Associated with sunspots

Some last for a few hours, others for a few months

Coronal Activity



Coronal Holes

Best seen in X-rays



Flares

Millions of H Bombs





Solar-Terrestrial Interactions





Stream of charged particles, mainly protons. The solar wind exists because the gases in the corona are too hot to be confined by solar gravity. The speed of the solar wind near the Earth's orbit averages about 400 km/s, and its density is usually two to ten ions per cubic centimeter. But both are highly variable. The solar wind's interaction with the Earth's atmosphere creates aurora.

