



Updated 2012 Feb 15 14:03:02 UTC

NOAA/SWPC Boulder, CO USA

The GOES Hp plot contains the 1-minute averaged parallel component of the magnetic field in nanoTeslas (nT), as measured at GOES-13 (W75) and GOES-15 (W89). The Hp component is perpendicular to the satellite orbit plane and Hp is essentially parallel to Earth's rotation axis. If these data drop to near zero, or less, when the satellite is on the dayside it may be due to a compression of Earth's magnetopause to within geosynchronous orbit, exposing satellites to negative and/or highly variable magnetic fields. On the nightside, a near zero, or less, value of the field indicates strong currents that are often associated with substorms and an intensification of currents in the Earth's geomagnetic tail.

Noon and midnight local time at the satellite are plotted as N and M. Default scaling is 0 to 200 nanoTesla. Non-default scaling to include infrequent extreme values is labeled in red to emphasize the change in scale.

This page updates dynamically every 5 minutes. Other SWPC **Real-time Monitors**

NOAA / Space Weather Prediction Center

Visually impaired users may [contact us](#) for assistance.

[Home](#)**Space Weather Topics:**

[SWPC](#) [Alerts / Warnings](#), [Space Weather Now](#), [Today's Space Wx](#), [Data and Products](#), [About Us](#),
[Email Products](#), [Space Wx Workshop](#), [Education/Outreach](#), [Disclaimer](#), [Customer Services](#), [Contact Us](#)