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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 May 02 04:03UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 01.05.2025 at 23:00 UTC was 152 sfu.
The background X-Ray flux is at the class C1.1 level.
No obviously Earth directed CMEs were observed in available LASCO imagery on April 28-30.
An equatorial coronal hole (CH1289) rotated across the central meridian on April 28-29.
An equatorial coronal hole (CH1290) rotated into an Earth facing position on May 01.

**II. Solar Energetic Particle Events**
Protons and electrons fluxes are quiet.

**III. Interplanetary and Geomagnetic conditions**
The solar wind speed measured by ACE satellite reached the max value 568 Km/s on May 02 at 02:50 UT during the last 24 hours.
The solar wind speed from STEREO A was detected 400 Km/s during the last 24 hours.
The vertical component of IMF Bz reached the max value -13 nT on May 01 at 23:15 UT during the last 24 hours.
The geomagnetic field was at unsettled to minor storm (G1) levels during the last 24 hours.
The Kp index now is at minor storm (G1) levels with Kp=5.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at unsettled to minor storm (G1) levels on May 02 due to the effect of a recurrent coronal hole (CH1289) high speed stream, at quiet to unsettled levels on May 03 and at quiet to active levels on May 04.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 02.05.2025 | 18 | Unsettled to Minor storm (G1) |
| 03.05.2025 | 10 | Quiet to Unsettled |
| 04.05.2025 | 12 | Quiet to Active |

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