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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 April 06 06:37UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 05.04.2025 at 23:00 UTC was 184 sfu.
The background X-Ray flux is at the class C2.3 level.
AR4048 erupted on April 05 at 20:05 UT peak time producing a M1.0-class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on April 02-04.
An equatorial coronal hole (CH1281) rotated across the central meridian on April 01-02.
A small coronal hole (CH1282) at northern hemisphere was Earth facing on April 04.
A small equatorial coronal hole (CH1283) will rotate across the central meridian on April 05-06.

**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 765 Km/s on April 05 at 08:20 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 -7 nT on April 05 at 08:55 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 unsettled levels with Kp=3.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to minor storm (G1) levels on April 06 and at quiet to active levels on April 07-08 due to the effects from coronal hole high speed stream.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 06.04.2025 | 15 | Quiet to Minor Storm (G1) |
| 07.04.2025 | 10 | Quiet toActive |
| 08.04.2025 | 12 | Quiet toActive |

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