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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 June 05 03:46UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 04.06.2025 at 23:00 UTC was 134 sfu.
The background X-Ray flux is at the class B8.3 level.
AR4100 erupted on June 04 at 23:28 UT peak time producing a M1.1-class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on June 04.
A coronal hole (CH1299) at southern hemisphere was Earth facing on June 02-04.

**II. Solar Energetic Particle Events**
Protons fluxes are quiet.The greater than 2 MeV electron flux at geosynchronous orbit was at minor storm levels.

**III. Interplanetary and Geomagnetic conditions**
The solar wind speed measured by ACE satellite reached the max value 804 Km/s on June 04 at 18:40 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 -11 nT on June 04 at 14:45 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 active levels with Kp=4.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to active levels with a chance of minor storm (G1) levels on June 05-07 due to the continuous effects of coronal hole high speed stream.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 05.06.2025 | 25 | Quiet to Active |
| 06.06.2025 | 15 | Quiet to Active |
| 07.06.2025 | 15 | Quiet to Active |

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