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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 April 12 05:28UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 11.04.2025 at 23:00 UTC was 170 sfu.
The background X-Ray flux is at the class C6.5 level.
Two M1 solar flares were produced on April 11.
No obviously Earth directed CMEs were observed in available LASCO imagery on April 08-10.
A coronal hole (CH1284) at southern hemisphere was Earth facing on April 07-09.

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

**III. Interplanetary and Geomagnetic conditions**
The solar wind speed measured by ACE satellite reached the max value 506 Km/s on April 11 at 12:25 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 -8 nT on April 12 at 00:30 UT during the last 24 hours.
The geomagnetic field was at quiet to active 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 active levels on April 12-13 due to effects from CH(1284) and at quiet to unsettled on April 14.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 12.04.2025 | 15 | Quiet to Active |
| 13.04.2025 | 12 | Quiet to Active |
| 14.04.2025 | 10 | Quiet to Unsettled |

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