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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 February 12 06:50UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 11.02.2025 at 23:00 UTC was 153 sfu.
The background X-Ray flux is at the class C1.9 level.
AR3981 erupted on February 11 at 05:35 UT peak time producing a M1.6-class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on February 09-11.
An equatorial coronal hole (CH1269) rotated across the central meridian on February 06-08.
A coronal hole (CH1270) at southern hemisphere will rotate into an Earth facing position on February 09-12.

**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 570 Km/s on February 12 at 04:00 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 -5 nT on February 12 at 06:20 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 active levels with Kp=4.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to unsettled levels on February 12 and at quiet to active levels on February 13-14 due to the effect of recurrent coronal holes high speed stream.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 12.02.2025 | 08 | Quiet to Unsettled |
| 13.02.2025 | 15 | Quiet to Active |
| 14.02.2025 | 15 | Quiet to Active |

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