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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 February 15 07:34UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 14.02.2025 at 23:00 UTC was 179 sfu.
The background X-Ray flux is at the class C1.0 level.
Three M1-class solar flares were produced on February 14 and the biggest was the M1.8.
AR3990 erupted on February 14 at 20:57 UT peak time producing a M1.8-class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on February 11-13.
A coronal hole (CH1270) at southern hemisphere was in an Earth facing position on February 10-12.

**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 586 Km/s on February 14 at 16:50 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 -8 nT on February 14 at 01:35 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 on February 15-16 due to the effect of recurrent coronal holes high speed stream and at quiet to unsettled levels on February 17.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 15.02.2025 | 20 | Quiet to Active |
| 16.02.2025 | 15 | Quiet to Active |
| 17.02.2025 | 10 | Quiet to Unsettled |

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