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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 February 18 05:04UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 17.02.2025 at 23:00 UTC was 185 sfu.
The background X-Ray flux is at the class C1.8 level.
AR3992 erupted on February 17 at 15:13 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 February 14-16.
A coronal hole (CH1270) at southern hemisphere was in an Earth facing position on February 10-14.

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

**III. Interplanetary and Geomagnetic conditions**
The solar wind speed measured by ACE satellite reached the max value 555 Km/s on February 17 at 06:10 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 -6 nT on February 17 at 23:05 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 18-19 and at quiet levels on February 20.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 18.02.2025 | 12 | Quiet to Unsettled |
| 19.02.2025 | 10 | Quiet to Unsettled |
| 20.02.2025 | 08 | Quiet |

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