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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 February 24 06:58UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 23.02.2025 at 23:00 UTC was 210 sfu.
The background X-Ray flux is at the class C3.6 level.
One X2-class and four M-class solar flares were produced on February 23.
AR4001 erupted on February 23 at 19:27 UT peak time producing a X2-class solar flare and a radio blackout of category R3.
No obviously Earth directed CMEs were observed in available LASCO imagery on February 21-23.
An equatorial coronal hole (CH1271) will likely become Earth facing on February 24-26.
A coronal hole (CH1272) at southern hemisphere will likely rotate across the central meridian on February 22-25.
A coronal hole (CH1273) at northern hemisphere rotated across the central meridian on February 21.

**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 375 Km/s on February 24 at 00:30 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 -9 nT on February 23 at 21:50 UT during the last 24 hours.
The geomagnetic field was at quiet to unsettled levels during the last 24 hours.
The Kp index now is at quiet levels with Kp=1.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to unsettled levels on February 24-26.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 24.02.2025 | 08 | Quiet to Unsettled |
| 25.02.2025 | 08 | Quiet to Unsettled |
| 26.02.2025 | 08 | Quiet to Unsettled |

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