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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 February 06 05:06UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 05.02.2025 at 23:00 UTC was 191 sfu.
The background X-Ray flux is at the class C2.5 level.
Two M-class solar flares were produced on February 05 and the largest was the M4.7.
AR3977 erupted on February 05 at 07:50 UT peak time producing a M2.8-class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on February 03-05.
An equatorial coronal hole (CH1269) will rotate across the central meridian on February 07-08.

**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 455 Km/s on February 06 at 04:35 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 -7 nT on February 06 at 02:35 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=2.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to unsettled levels on February 06-08.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 06.02.2025 | 08 | Quiet to Unsettled |
| 07.02.2025 | 10 | Quiet to Unsettled |
| 08.02.2025 | 10 | Quiet to Unsettled |

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