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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 March 06 05:12UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 05.03.2025 at 23:00 UTC was 157 sfu.
The background X-Ray flux is at the class A0.0 level.
AR4016 erupted on February 05 at 11:50 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 March 03-05.
An equatorial coronal hole (CH1274) will be Earth facing on March 05-07.
A CME was observed on March 01 at 18:24 UT. This CME was expecting to reach Earth between on March 04 at 18:18 UT and on March 05 at 00:30 UT according to EAM predictions.

**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 468 Km/s on March 05 at 06:25 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 March 05 at 08:10 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 March 06-07 and at quiet to active levels on March 08 due to the effect of the recurrent coronal hole high speed stream.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 06.03.2025 | 08 | Quiet to Unsettled |
| 07.03.2025 | 06 | Quiet to Unsettled |
| 08.03.2025 | 12 | Quiet to Active |

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