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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 March 08 08:29UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 07.03.2025 at 23:00 UTC was 147 sfu.
The background X-Ray flux is at the class C1.4 level.
AR4016 erupted on February 07 at 21:00 UT peak time producing a M1.6-class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on March 05-07.
An equatorial coronal hole (CH1274) will be Earth facing on March 05-07.
A coronal hole (CH1275) at southern hemisphere will rotate across the central meridian on March 08-09.

**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 469 Km/s on March 08 at 07:15 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 March 08 at 05:40 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 unsettled levels with Kp=3.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to active levels on March 08 due to the effect of the recurrent coronal hole high speed stream and at quiet to minor storm (G1) levels on March 09-10.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 08.03.2025 | 12 | Quiet to Active |
| 09.03.2025 | 25 | Quiet to Minor Storm (G1) |
| 10.03.2025 | 20 | Quiet to Minor Storm (G1) |

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