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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 March 12 04:50UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 11.03.2025 at 23:00 UTC was 161 sfu.
The background X-Ray flux is at the class C1.9 level.
AR4024 erupted on March 11 at 13:04 UT peak time producing a M1.1-class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on March 08-10.
An equatorial coronal hole (CH1274) was Earth facing on March 05-07.
A coronal hole (CH1275) at southern hemisphere rotated across the central meridian on March 09-10.

**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 513 Km/s on March 11 at 05:40 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 March 12 at 03:20 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 March 12 and at quiet to active levels on March 13-14 due to the effects of a recurrent coronal hole high speed stream.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 12.03.2025 | 12 | Quiet to Unsettled |
| 13.03.2025 | 18 | Quiet to Active |
| 14.03.2025 | 15 | Quiet to Active |

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