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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 March 28 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 27.03.2025 at 23:00 UTC was 153 sfu.
The background X-Ray flux is at the class C1.5 level.
AR4043 erupted on March 27 at 00:37 UT peak time producing a M2.1-class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on March 24-26.
A coronal hole (CH1278) at southern hemisphere rotated into an Earth facing position on March 23-24.
A large coronal hole (CH1279) at southern hemisphere will be Earth facing on March 21-26.
A coronal hole (CH1280) at northern hemisphere will rotate across the central meridian on March 25-27.

**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 840 Km/s on March 27 at 06:55 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 27 at 11:00 UT during the last 24 hours.
The geomagnetic field was at unsettled to minor storm (G1) 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 28 due to the continuous effects of the coronal holes high speed streams and at quiet to unsettled levels on March 29-30.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 28.03.2025 | 22 | Quiet to Active |
| 29.03.2025 | 15 | Quiet to Unsettled |
| 30.03.2025 | 12 | Quiet to Unsettled |

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