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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 March 15 07:15UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 14.03.2025 at 23:00 UTC was 180 sfu.
The background X-Ray flux is at the class C3.8 level.
AR4028 erupted on March 14 at 22:21 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 11-13.
A coronal hole (CH1275) at southern hemisphere rotated across the central meridian on March 09-10.
A coronal hole (CH1276) at southern hemisphere was Earth facing on March 13.

**II. Solar Energetic Particle Events**
Proton fluxe is quiet.
The greater than 2 MeV electron flux at geosynchronous orbit reached minor storm levels on March 14.

**III. Interplanetary and Geomagnetic conditions**
The solar wind speed measured by ACE satellite reached the max value 586 Km/s on March 14 at 13:05 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 14 at 22:00 UT during the last 24 hours.
The geomagnetic field was at unsettled to moderate storm (G2) 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 active levels on March 15-17.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 15.03.2025 | 18 | Quiet to Active |
| 16.03.2025 | 15 | Quiet to Active |
| 17.03.2025 | 12 | Quiet to Active |

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