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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 March 29 13:08UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 28.03.2025 at 23:00 UTC was 160 sfu.
The background X-Ray flux is at the class C1.8 level.
One X1.1 solar flare and three M-class solar flares were produced on March 28.
AR4046 erupted on March 28 at 15:20 UT peak time producing a X1.1-class solar flare and a radio blackout of category R3.
No obviously Earth directed CMEs were observed in available LASCO imagery on March 26-28.
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 644 Km/s on March 28 at 17:50 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 -4 nT on March 28 at 21:00 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 quiet levels with Kp=2.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to active levels on March 29 due to the continuous effects of the coronal holes high speed streams and at quiet to unsettled levels on March 30-31.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 29.03.2025 | 20 | Quiet to Active |
| 30.03.2025 | 12 | Quiet to Unsettled |
| 31.03.2025 | 08 | Quiet to Unsettled |

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Athens Space Weather Forecasting Center
Physics Department, National & Kapodistrian University of Athens
Athens Neutron Monitor Station A.NE.MO.S
Tel.: +30 210 727 6901
email: spaceweather@phys.uoa.gr
URL: http://spaceweather.phys.uoa.gr
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