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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 March 31 04:14UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 30.03.2025 at 23:00 UTC was 171 sfu.
The background X-Ray flux is at the class C5.0 level.
Five M-class solar flares were produced on March 30.
No obviously Earth directed CMEs were observed in available LASCO imagery on March 27-29.
A large coronal hole (CH1279) at southern hemisphere will be Earth facing on March 21-26.

**II. Solar Energetic Particle Events**
Protons fluxes are quiet.
The greater than 2 MeV electron flux at geosynchronous orbit reached minor storm level.

**III. Interplanetary and Geomagnetic conditions**
The solar wind speed measured by ACE satellite reached the max value 475 Km/s on March 30 at 04:35 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 -5 nT on March 30 at 06:55 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 quiet levels with Kp=1.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to unsettled levels on March 31-April 02.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 31.03.2025 | 10 | Quiet to Unsettled |
| 01.04.2025 | 10 | Quiet to Unsettled |
| 02.04.2025 | 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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