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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 May 01 07:26UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 30.04.2025 at 23:00 UTC was 148 sfu.
The background X-Ray flux is at the class Β8.5 level.
AR4079 erupted on April 30 at 07:51 UT peak time producing a M2.0-class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on April 28-30.
An equatorial coronal hole (CH1289) rotated across the central meridian on April 28-29.
An equatorial coronal hole (CH1290) will likely rotate into an Earth facing position on May 01.

**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 473 Km/s on May 01 at 02:25 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 May 01 at 02:25 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 active levels on May 01-02 due to the effect of a recurrent coronal hole high speed stream and at quiet to unsettled levels on May 03.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 01.05.2025 | 18 | Quiet to Active |
| 02.05.2025 | 15 | Quiet to Active |
| 03.05.2025 | 12 | 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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