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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 April 09 05:57UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 08.04.2025 at 23:00 UTC was 159 sfu.
The background X-Ray flux is at the class C3.3 level.
AR4048 erupted on April 08 at 22:22 UT peak time producing a M1.6-class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on April 05-07.
A small coronal hole (CH1282) at northern hemisphere was Earth facing on April 04.
A small equatorial coronal hole (CH1283) rotated across the central meridian on April 05-06.
A coronal hole (CH1284) at southern hemisphere was Earth facing on April 07-08.

**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 586 Km/s on April 09 at 02:50 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 -11 nT on April 08 at 12:45 UT during the last 24 hours.
The geomagnetic field was at quiet to minor storm (G1) levels during the last 24 hours.
The Kp index now is at minor storm (G1) levels with Kp=5.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to minor storm (G1) levels on April 09, at quiet to active levels on April 10 and at quiet to unsettled levels on April 11.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 09.04.2025 | 18 | Quiet to Minor storm (G1) |
| 10.04.2025 | 12 | Quiet to Active |
| 11.04.2025 | 10 | 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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