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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 June 04 07:59UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 03.06.2025 at 23:00 UTC was 135 sfu.
The background X-Ray flux is at the class C1.0 level.
AR4105 erupted on June 03 at 13:03 UT peak time producing a M1.4-class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on June 01-02.
A coronal hole (CH1299) at southern hemisphere will be Earth facing on June 02-04.

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

**III. Interplanetary and Geomagnetic conditions**
The solar wind speed measured by ACE satellite reached the max value 673 Km/s on June 03 at 11:40 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 -8 nT on June 03 at 08:40 UT during the last 24 hours.
The geomagnetic field was at quiet to strong storm (G3) 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 June 04-06.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 04.06.2025 | 18 | Quiet to Active |
| 05.06.2025 | 20 | Quiet to Active |
| 06.06.2025 | 15 | Quiet to Active |

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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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