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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 April 13 07:13UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 12.04.2025 at 23:00 UTC was 165 sfu.
The background X-Ray flux is at the class C8.3 level.
Nine M-class solar flares were produced on April 12 and the largest was the M2.7.
AR4055 erupted on April 12 at 11:43 UT peak time producing a M2.7-class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on April 09-11.
A coronal hole (CH1284) at southern hemisphere was Earth facing on April 07-09.

**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 545 Km/s on April 13 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 April 12 at 18:50 UT during the last 24 hours.
The geomagnetic field was at unsettled to minor storm (G1) 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 April 13 due to effects from CH(1284) and at quiet to unsettled on April 14-15.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 13.04.2025 | 15 | Quiet to Active |
| 14.04.2025 | 12 | Quiet to Unsettled |
| 15.04.2025 | 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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