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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 April 14 08:02UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 13.04.2025 at 23:00 UTC was 164 sfu.
The background X-Ray flux is at the class C4.4 level.
Ten M-class solar flares were produced on April 13 and the largest was the M3.2.
AR4055 erupted on April 13 at 18:51 UT peak time producing a M3.2-class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on April 10-12.
A CME was observed on April 13 at 08:00 UT. This CME is expected to reach Earth between on April 15 at 22:59 UT and on April 16 at 03:50 UT according to EAM predictions.
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 516 Km/s on April 13 at 09:25 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 -7 nT on April 14 at 03:20 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 unsettled on April 14-15 and at quiet to minor storm (G1) levels on April 16 due to effect of the CME observed on April 13.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 14.04.2025 | 10 | Quiet to Unsettled |
| 15.04.2025 | 10 | Quiet to Unsettled |
| 16.04.2025 | 20 | Quiet to Minor Storm (G1) |

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