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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 April 17 07:54UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 16.04.2025 at 23:00 UTC was 148 sfu.
The background X-Ray flux is at the class C1.0 level.
No obviously Earth directed CMEs were observed in available LASCO imagery on April 14-16.
A CME was observed on April 13 at 08:00 UT. This CME was expected to reach Earth between on April 15 at 22:59 UT and on April 16 at 03:50 UT according to EAM predictions.
An equatorial coronal hole (CH1285) was Earth facing on April 14.
A southern hemisphere coronal hole (CH1286) will likely rotate across the central meridian on April 17-21.

**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 574 Km/s on April 16 at 08:40 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 -17 nT on April 16 at 14:20 UT during the last 24 hours.
The geomagnetic field was at quiet to severe storm (G4) 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 unsettled to minor storm (G1) levels on April 17 due to effects of the CMEs observed on April 13, at quiet to active levels on April 18 and at quiet to unsettled on April 19.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 17.04.2025 | 30 | Quiet to Minor storm (G1) |
| 18.04.2025 | 15 | Quiet to Active |
| 19.04.2025 | 10 | Quiet to Unsettled |

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