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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 May 18 06:12UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 17.05.2025 at 23:00 UTC was 117 sfu.
The background X-Ray flux is at the class B5.4 level.
No obviously Earth directed CMEs were observed in available LASCO imagery on May 14-16.
A coronal hole (CH1294) at southern hemisphere will likely become Earth facing on May 15-20.

**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 822 Km/s on May 18 at 00:00 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 May 17 at 14:20 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 unsettled levels with Kp=3.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at unsettled to minor storm (G1) levels on May 18-19 due to the effect of coronal hole (CH1294) high speed stream and at unsettled to active levels on May 20.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 18.05.2025 | 30 | Unsettled to Minor Storm (G1) |
| 19.05.2025 | 25 | Unsettled to Minor Storm (G1) |
| 20.05.2025 | 15 | Unsettled to Active |

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