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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 April 18 10:30UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 17.04.2025 at 23:00 UTC was 151 sfu.
The background X-Ray flux is at the class C1.1 level.
No obviously Earth directed CMEs were observed in available LASCO imagery on April 15-17.
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 485 Km/s on April 17at 11:20 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 April 18 at 01:55 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 unsettled levels with Kp=3.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to active levels on April 18 and at quiet to unsettled on April 19-20.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 18.04.2025 | 12 | Quiet to Active |
| 19.04.2025 | 08 | Quiet to Unsettled |
| 20.04.2025 | 06 | 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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