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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 April 19 06:16UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 18.04.2025 at 23:00 UTC was 156 sfu.
The background X-Ray flux is at the class C1.0 level.
A M4.5 solar flare was produced on April 18 at 23:50 UT.
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 482 Km/s on April 18 at 09:15 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 -6 nT on April 19 at 00:10 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 levels on April 19-20 and at quiet to moderate storm (G2) levels on April 21.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 19.04.2025 | 10 | Quiet to Unsettled |
| 20.04.2025 | 08 | Quiet to Unsettled |
| 21.04.2025 | 30 | Quiet to Moderate Storm (G2) |

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