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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 April 28 03:44UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 27.04.2025 at 23:00 UTC was 156 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 24-26.
A coronal hole (CH1286) at southern hemisphere rotated across the central meridian on April 17-25.
A small coronal hole (CH1288) at northern hemisphere was Earth facing on April 24.

**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 450 Km/s on April 27 at 21:20 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 -6 nT on April 27 at 16:40 UT during the last 24 hours.
The geomagnetic field was at quiet to unsettled 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 unsettled levels on April 28-29 and at quiet levels on April 30.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 28.04.2025 | 08 | Quiet to Unsettled |
| 29.04.2025 | 08 | Quiet to Unsettled |
| 30.04.2025 | 05 | Quiet |

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