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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 April 29 06:40UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 28.04.2024 at 23:00 UTC was 140 sfu.
The background X-Ray flux is at the class C1.3 level.
No obviously Earth directed CMEs were observed in available LASCO imagery on April 25-27.
A equatorial coronal hole (CH1217) rotated across the central meridian on April 27-28.

**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 472 Km/s on April 28 at 23:25 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 -3 nT on April 28 at 20:05 UT during the last 24 hours.
The geomagnetic field was at quiet levels during the last 24 hours.
The Kp index now is at quiet levels with Kp=1.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to unsettled levels on April 29-30 and at quiet to active levels on May 01 due to the effects of coronal hole high speed stream.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 29.04.2024 | 08 | Quiet to Unsettled |
| 30.04.2024 | 08 | Quiet to Unsettled |
| 01.05.2024 | 15 | Quiet to Active |

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