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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 April 23 06:08UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 22.04.2025 at 23:00 UTC was 163 sfu.
The background X-Ray flux is at the class C1.2 level.
AR4060 erupted on April 22 at 10:49 UT peak time producing a M1.3-class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on April 19-21.
A coronal hole (CH1286) at southern hemisphere will rotate across the central meridian on April 17-23.
A small northern hemisphere coronal hole (CH1287) was Earth facing on April 22.

**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 667 Km/s on April 22 at 17:25 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 -4 nT on April 22 at 19:00 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 quiet levels with Kp=2.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to active levels on April 23-25 due to the effect of the recurrent coronal hole high speed stream.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 23.04.2025 | 20 | Quiet to Active |
| 24.04.2025 | 15 | Quiet to Active |
| 25.04.2025 | 12 | Quiet to Active |

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