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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 May 25 05:27UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 24.05.2025 at 23:00 UTC was 130 sfu.
The background X-Ray flux is at the class C1.2 level.
AR4098 erupted on May 24 at 20:23 UT peak time producing a M2.1-class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on May 21-23. A coronal hole (CH1294) at southern hemisphere was Earth facing on May 15-23. A coronal hole (CH1295) at northern hemisphere rotated across the central meridian on May 21-22. An equatorial coronal hole (CH1296) will become Earth facing on May 25.

**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 463 Km/s on May 25 at 03:30 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 May 24 at 10:50 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=2.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to unsettled levels on May 25-27.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 25.05.2025 | 08 | Quiet to Unsettled |
| 26.05.2025 | 08 | Quiet to Unsettled |
| 27.05.2025 | 08 | Quiet to Unsettled |

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