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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 May 27 04:01UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 26.05.2025 at 23:00 UTC was 133 sfu.
The background X-Ray flux is at the class B7.4 level.
Τwo M-class flares produced were produced on May 26 and the biggest was the M2.9.
AR4098 erupted on May 26 at 13:06 UT peak time producing a M2.9-class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on May 23-25. A coronal hole (CH1294) at southern hemisphere was Earth facing on May 15-23.
An equatorial coronal hole (CH1296) will be Earth facing on May 25.
A coronal hole (CH1297) at southern hemisphere will likely rotate across the central meridian on May 26-27.

**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 479 Km/s on May 26 at 06:35 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 -9 nT on May 26 at 05:30 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 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 27 and at quiet to minor storm (G1) levels on May 28-29 due to the effects of recurrent coronal hole high speed streams.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 27.05.2025 | 08 | Quiet to Unsettled |
| 28.05.2025 | 20 | Quiet to Minor Storm (G1) |
| 29.05.2025 | 15 | Quiet to Minor Storm (G1) |

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