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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 August 04 05:44UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 03.08.2025 at 23:00 UTC was 146 sfu.
The background X-Ray flux is at the class M1.3 level.
AR4168 erupted on August 03 at 13:57 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 August 01-03.
An equatorial negative polarity coronal hole (CH1309) was Earth facing on August 01.
A coronal hole (CH1310) will likely rotate across the central meridian on August 05-09.

**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 574 Km/s on August 03 at 21:05 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 August 03 at 17:45 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=1.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to unsettled levels on August 04-06.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 04.08.2025 | 10 | Quiet to Unsettled |
| 05.08.2025 | 08 | Quiet to Unsettled |
| 06.08.2025 | 08 | Quiet to Unsettled |

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