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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 August 07 06:15UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 06.08.2025 at 23:00 UTC was 158 sfu.
The background X-Ray flux is at the class C2.1 level.
AR4168 erupted on August 06 at 17:02 UT peak time producing a M1.1-class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on August 02-04.
An extensive coronal hole (CH1310) at southern hemisphere rotated across the central meridian on August 05-11.
---CME arrival forecast
A faint CME was observed on August 05 at 16:48 UT after the M4.4-class solar flare from AR4168. This CME is expected to reach Earth on August 08 between at 17:27 UT and at 23:25 UTaccording to EAM predictions.

**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 438 Km/s on August 06 at 08:00 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 August 06 at 19:50 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=1.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to unsettled levels on August 07,at quiet to moderate storm (G2) levels on August 08 due to effects from the CME and at quiet to minor storm (G1) levels on August 09 due to effects from the CH1310.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 07.08.2025 | 08 | Quiet to Unsettled |
| 08.08.2025 | 30 | Quiet to Moderate storm (G2) |
| 09.08.2025 | 25 | Quiet to Minor storm (G1) |

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