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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 August 10 06:47UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 09.08.2025 at 23:00 UTC was 140 sfu.
The background X-Ray flux is at the class C2.0 level.
Two M-class solar flares were produced on August 09 and the biggest was the M1.7.
AR4168 erupted on August 09 at 16:40 UT peak time producing a M1.7-class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on August 06-08.
An extensive coronal hole (CH1310) at southern hemisphere rotated across the central meridian on August 05-12.
A coronal hole (CH1311) at northern hemisphere rotated across the central meridian on August 07-09.
---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 was 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 603 Km/s on August 09 at 20:15 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 -15 nT on August 09 at 14:20 UT during the last 24 hours.
The geomagnetic field was at quiet to moderate storm (G2) 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 minor storm (G1) levels on August 10 due to the continuous effects of the recurrent coronal hole (CH1310) high speed stream, at quiet to active levels on August 11 and at quiet to unsettled levels on August 12.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 10.08.2025 | 20 | Quiet to Minor storm (G1) |
| 11.08.2025 | 18 | Quiet to Active |
| 12.08.2025 | 12 | Quiet to Unsettled |

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