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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 August 31 05:54UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 30.08.2025 at 23:00 UTC was 317 sfu.
The background X-Ray flux is at the class C2.3 level.
Three M-class solar flares were produced on August 30 and the biggest was the M2.8.
AR14204 erupted on August 30 at 20:02 UT peak time producing a M2.8-class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on August 27-29.
A coronal hole (CH1314) at southern hemisphere rotaded across the central meridian on August 28.
---CME arrival forecast
A CME was observed on August 30 at 20:09 UT.The source for this CME is the long duration M2.8 class flare from AR14199. This CME is expected to reach Earth between on September 01 at 10:49 UT and on September 02 at 06:55 UT according 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 435 Km/s on August 31 at 05:15 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 -5 nT on August 30 at 06:20 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 levels on August 31 and at quiet to active levels on September 01 and at quiet to minor storm (G1) levels on September 02 due to the effect of the CME.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 31.08.2025 | 05 | Quiet |
| 01.09.2025 | 12 | Quiet to Active |
| 02.09.2025 | 30 | Quiet to Minor storm (G1) |

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