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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 August 25 07:54UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 24.08.2024 at 23:00 UTC was 232 sfu.
The background X-Ray flux is at the class C3.4 level.
Five M-class flares were produced on August 24.
No obviously Earth directed CMEs were observed in available LASCO imagery on August 20-22.
A coronal hole (CH1237) at northern hemisphere rotated across the central meridian on August 20.
---CME arrival forecast
A faint partial halo CME was observed on August 23 at 02:00 UT. This CME could reach Earth on August 26 between at 06:04 UT and at 20:57 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 391 Km/s on August 24 at 16:40 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 -6 nT on August 24 at 14:35 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 August 25-26 and at quiet to active levels on August 27.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 25.08.2024 | 07 | Quiet to Unsettled |
| 26.08.2024 | 07 | Quiet to Unsettled |
| 27.08.2024 | 12 | Quiet to Active |

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