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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 August 05 07:56UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 04.08.2024 at 23:00 UTC was 241 sfu.
The background X-Ray flux is at the class C4.1 level.
Six M-class solar flares were produced on August 04 and the largest was the Μ2.2 flare.
No obviously Earth directed CMEs were observed in available LASCO imagery on August 02-04.
---CME arrival forecast
A partial halo CME was observed on August 01 at 07:24 UT. This CME was expected to reach on Earth on August 03 between at 05:21 UT and at 21:41 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 509 Km/s on August 05 at 05:40 UT during the last 24 hours.
The solar wind speed from STEREO A was detected 600 Km/s during the last 24 hours.
The vertical component of IMF Bz reached the max value -17 nT on August 04 at 12:55 UT during the last 24 hours.
The geomagnetic field was at quiet tο strong storm (G3) levels during the last 24 hours.
The Kp index now is at unsettled levels with Kp=3.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to active levels on August 05 due to the continuous effect of the CME and at quiet to unsettled levels on August 06-07.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 05.08.2024 | 15 | Quiet to Active |
| 06.08.2024 | 08 | Quiet to Unsettled |
| 07.08.2024 | 06 | Quiet to Unsettled |

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