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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 August 03 10:09UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 02.08.2024 at 23:00 UTC was 247 sfu.
The background X-Ray flux is at the class C4.0 level.
Ten M-class solar flares were produced on August 02 and the largest was the Μ7.4 flare.
No obviously Earth directed CMEs were observed in available LASCO imagery on July 30-31.
An equatorial coronal hole (CH1233) rotated across the central meridian on July 30-31.
---CME arrival forecast
A partial halo CME was observed on August 01 at 07:24 UT. This CME is expected to reach on Earth on August 03 between at 05:21 UT and at 21:41 UT according to EAM predictions.
A CME was observed on July 29 at 13:25 UT. This CME was expected to reach on Earth on August 01 between at 10:20 UT and at 11:22 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 431 Km/s on August 02 at 17:55 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 -6 nT on August 03 at 02:35 UT during the last 24 hours.
The geomagnetic field was at quiet tο unsettled 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 minor storm (G1) levels on August 03-04 due to the effect of CMEs and at quiet to unsettled levels on August 05.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 03.08.2024 | 25 | Quiet to Minor Storm (G1) |
| 04.08.2024 | 20 | Quiet to Minor Storm (G1) |
| 05.08.2024 | 08 | Quiet to Unsettled |

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