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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 August 04 06:43UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 03.08.2024 at 23:00 UTC was 245 sfu.
The background X-Ray flux is at the class C4.0 level.
Nine M-class solar flares were produced on August 03 and the largest was the Μ7.3 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 was 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 377 Km/s on August 03 at 09:35 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 -15 nT on August 04 at 06:20 UT during the last 24 hours.
The geomagnetic field was at quiet tο active levels during the last 24 hours.
The Kp index now is at active 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 04 due to the effect of CMEs, at quiet to unsettled levels on August 05 and at quiet levels on August 06.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 04.08.2024 | 25 | Quiet to Minor Storm (G1) |
| 05.08.2024 | 10 | Quiet to Unsettled |
| 06.08.2024 | 05 | Quiet |

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