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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 August 08 09:09UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 07.08.2024 at 23:00 UTC was 303 sfu.
The background X-Ray flux is at the class C5.3 level.
Four M-class flares were produced and the largest event was M5.0 flare.
AR3777 erupted on August 07 at 18:54 UT peak time producing a M5.0 class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on August 05-06.
A small coronal hole (CH1234) at northern hemisphere rotated across the central meridian on August 07.
---CME arrival forecast
A CME was observed on August 07 at 14:24 UT after an M4.5 flare. This CME was expected to reach on Earth between on August 09 at 21:03 UT and on August 10 at 07:55 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 425 Km/s on August 07 at 23:35 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 07 at 21:20 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 to unsettled levels on August 08 and at quiet to moderate storm (G2) levels on August 09-10.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 08.08.2024 | 08 | Quiet to Unsettled |
| 09.08.2024 | 20 | Quiet to Moderate Storm (G2) |
| 10.08.2024 | 30 | Quiet to Moderate Storm (G2) |

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