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Product: Daily Forecast of Geomagnetic Activity  
Issued: 2024 August 09 06:38UTC  
Prepared by the Athens Space Weather Forecasting Center  
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**I. Solar activity**  
*--Current Status*  
Solar Flux (10.7cm) measured on 08.08.2024 at 23:00 UTC was 336 sfu.  
The background X-Ray flux is at the class C4.9 level.  
Five M-class and one X1.3 solar flares were produced on August 08.  
AR3777 erupted on August 08 at 19:35 UT peak time producing a X1.3 class solar flare and a radio blackout of category R3.  
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 is 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 417 Km/s on August 08 at 14:20 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 09 at 00:50 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 moderate storm (G2) levels on August 09-10 due to CME observed on August 07 and at quiet to active levels on August 11.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 09.08.2024 | 30 | Quiet to Moderate Storm (G2) |
| 10.08.2024 | 50 | Quiet to Moderate Storm (G2) |
| 11.08.2024 | 20 | Quiet to Active |

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