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Product: Daily Forecast of Geomagnetic Activity  
Issued: 2024 August 15 06:56UTC  
Prepared by the Athens Space Weather Forecasting Center  
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**I. Solar activity**  
*--Current Status*  
Solar Flux (10.7cm) measured on 14.08.2024 at 23:00 UTC was 248 sfu.  
The background X-Ray flux is at the class C4.8 level.  
One X1.1-class flare and three M-class flares were produced on August 14.  
AR3784 erupted on August 14 at 06:40 UT peak time producing a X1.1 class solar flare and a radio blackout of category R3.  
No obviously Earth directed CMEs were observed in available LASCO imagery on August 12-13.  
A coronal hole at northern hemipshere will be rotating across the central meridian on August 13-15.  
A CME was observed on August 14 at 08:23 UT after the X1.1 flare from AR3784. This CME is expected to reach Earth on August 17 between at 08:07 UT and at 11:52 UT.  
  
**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 411 Km/s on August 14 at 16:10 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 -3 nT on August 14 at 20:05 UT during the last 24 hours.  
The geomagnetic field was at quiet to active levels during the last 24 hours.  
The Kp index now is at quiet levels with Kp=1.  
  
**IV. 3-day Geomagnetic Activity Forecast**  
The geomagnetic field is expected to be at quiet to unsettled levels on August 15-16 and at quiet to active levels on August 17 due to CME observed on August 14.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 15.08.2024 | 06 | Quiet to Unsettled |
| 16.08.2024 | 08 | Quiet to Unsettled |
| 17.08.2024 | 15 | Quiet to Active |

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