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Product: Daily Forecast of Geomagnetic Activity  
Issued: 2024 August 18 07:46UTC  
Prepared by the Athens Space Weather Forecasting Center  
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**I. Solar activity**  
*--Current Status*  
Solar Flux (10.7cm) measured on 17.08.2024 at 23:00 UTC was 230 sfu.  
The background X-Ray flux is at the class C5.4 level.  
Three M1 class solar flares were produced on August 17.   
No obviously Earth directed CMEs were observed in available LASCO imagery on August 15-17.  
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 a X1.1 flare from AR3784. This CME was 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 482 Km/s on August 17 at 15:05 UT during the last 24 hours.  
The solar wind speed from STEREO A was detected 400 Km/s during the last 24 hours.< br>The vertical component of IMF Bz reached the max value -21 nT on August 17 at 16:20 UT during the last 24 hours.  
The geomagnetic field was at quiet to strong (G3) 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 active with a chance of minor storm (G1) levels on August 18 due to the continuous effect of CME observed on August 14, at quiet to unsettled levels on August 19 and at quiet levels on August 20.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 18.08.2024 | 18 | Quiet to Minor Storm (G1) |
| 19.08.2024 | 10 | Quiet to Unsettled |
| 20.08.2024 | 08 | Quiet |

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