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Product: Daily Forecast of Geomagnetic Activity  
Issued: 2024 August 19 07:30UTC  
Prepared by the Athens Space Weather Forecasting Center  
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**I. Solar activity**  
*--Current Status*  
Solar Flux (10.7cm) measured on 18.08.2024 at 23:00 UTC was 231 sfu.  
The background X-Ray flux is at the class C2.7 level.  
Four M class solar flares were produced on August 18 and the largest was the M2.4 flare.   
AR3784 erupted on August 18 at 02:00 UT peak time producing a M2.4 class solar flare and a radio blackout of category R1.  
No obviously Earth directed CMEs were observed in available LASCO imagery on August 16-18.  
  
  
**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 464 Km/s on August 18 at 09:00 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 -5 nT on August 18 at 08:40 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=2.  
  
**IV. 3-day Geomagnetic Activity Forecast**  
The geomagnetic field is expected to be at quiet to unsettled levels on August 19-20 and at quiet levels on August 21.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 19.08.2024 | 08 | Quiet to Unsettled |
| 20.08.2024 | 05 | Quiet |
| 21.08.2024 | 05 | Quiet |

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