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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 August 20 07:47UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 19.08.2024 at 23:00 UTC was 239 sfu.
The background X-Ray flux is at the class C5.2 level.
Twor M class solar flares were produced on August 19 and the largest was the M3.7 flare.
AR3796 erupted on August 19 at 21:52 UT peak time producing a M3.7 class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on August 17-19.
A coronal hole (CH1237) at northern hemisphere will rotated across the central meridian on August 20.

**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 432 Km/s on August 19 at 17:25 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 -7 nT on August 19 at 18:40 UT during the last 24 hours.
The geomagnetic field was at quiet to unsettled 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 20-22.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 20.08.2024 | 08 | Quiet to Unsettled |
| 21.08.2024 | 07 | Quiet to Unsettled |
| 22.08.2024 | 07 | Quiet to Unsettled |

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