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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 August 22 13:36UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 21.08.2024 at 23:00 UTC was 239 sfu.
The background X-Ray flux is at the class C4.6 level.
Two M class solar flares were produced on August 21.
No obviously Earth directed CMEs were observed in available LASCO imagery on August 19-21.
A coronal hole (CH1237) at northern hemisphere 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 369 Km/s on August 22 at 10:30 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 22 at 03:45 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 22-24.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 22.08.2024 | 08 | Quiet to Unsettled |
| 23.08.2024 | 06 | Quiet to Unsettled |
| 24.08.2024 | 06 | Quiet to Unsettled |

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