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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 August 24 06:37UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 23.08.2024 at 23:00 UTC was 242 sfu.
The background X-Ray flux is at the class C3.6 level.
Seven M-class flares were produced on August 23 and the largest was the M5.1.
AR3800 erupted on August 23 at 20:12 UT peak time producing a M5.1 class solar flare and a radio blackout of category R2.
No obviously Earth directed CMEs were observed in available LASCO imagery on August 20-22.
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 383 Km/s on August 24 at 02:35 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 -8 nT on August 23 at 12:45 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 levels on August 24-26.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 24.08.2024 | 05 | Quiet |
| 25.08.2024 | 05 | Quiet |
| 26.08.2024 | 05 | Quiet |

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