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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 August 16 07:14UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 15.08.2024 at 23:00 UTC was 227 sfu.
The background X-Ray flux is at the class C3.3 level.
AR3780 erupted on August 15 at 03:48 UT peak time producing a M1.1 class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on August 12-13.
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 the X1.1 flare from AR3784. This CME is 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 376 Km/s on August 15 at 13:50 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 -6 nT on August 16 at 00:00 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 16 and at quiet to active with a chance of minor storm (G1) levels on August 17 -18 due to CME observed on August 14.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 16.08.2024 | 07 | Quiet to Unsettled |
| 17.08.2024 | 20 | Quiet to Minor Storm (G1) |
| 18.08.2024 | 20 | Quiet to Minor Storm (G1) |

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