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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 August 28 09:11UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 27.08.2024 at 23:00 UTC was 221 sfu.
The background X-Ray flux is at the class C5.5 level.
AR3796 erupted on August 27 at 09:43 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 24-26.
---CME arrival forecast
A faint partial halo CME was observed on August 23 at 02:00 UT. This CME was expected to reach Earth on August 26 between at 06:04 UT and at 20:57 UT according to EAM predictions.

**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 349 Km/s on August 28 at 03:10 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 -15 nT on August 28 at 03:10 UT during the last 24 hours.
The geomagnetic field was at quiet to moderate storm (G2) levels during the last 24 hours.
The Kp index now is at active levels with Kp=4.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to moderate storm (G2) levels on August 28 due to the continuous effects of the CME on August 23 and at quiet to unsettled levels on August 29-30.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 28.08.2024 | 20 | Quiet to Moderate storm (G2) |
| 29.08.2024 | 08 | Quiet to Unsettled |
| 30.08.2024 | 06 | Quiet to Unsettled |

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