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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 August 31 07:55UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 30.08.2024 at 23:00 UTC was 214 sfu.
The background X-Ray flux is at the class C3.9 level.
Two M-class flares were produced on August 30 and the largest was the M3.8.
AR3806 erupted on August 30 at 12:20 UT peak time producing a M3.8 class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on August 28-30.

**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 407 Km/s on August 30 at 14:20 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 -14 nT on August 30 at 08:10 UT during the last 24 hours.
The geomagnetic field was at quiet to minor storm (G1) 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 minor storm (G1) levels on August 31 and at quiet to unsettled levels on September 01-02.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 31.08.2024 | 18 | Quiet to Minor Storm (G1) |
| 01.09.2024 | 08 | Quiet to Unsettled |
| 02.09.2024 | 08 | Quiet to Unsettled |

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