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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 December 08 08:07UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 07.12.2024 at 23:00 UTC was 183 sfu.
The background X-Ray flux is at the class C1.6 level.
Two M-class flares were produced on December 07 and the largest was the M3.2.
AR3917 erupted on December 07 at 22:15 UT peak time producing a M3.2-Class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on December 04-06.
A coronal hole (CH1259) at northern hemisphere rotated into an Earth facing position on December 06-07.

**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 393 Km/s on December 07 at 22:30 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 -5 nT on December 08 at 04:45 UT during the last 24 hours.
The geomagnetic field was at quiet 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 December 08-10.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 08.12.2024 | 06 | Quiet to Unsettled |
| 09.12.2024 | 08 | Quiet to Unsettled |
| 10.12.2024 | 08 | Quiet to Unsettled |

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