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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 December 07 08:43UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 06.12.2024 at 23:00 UTC was 178 sfu.
The background X-Ray flux is at the class C1.8 level.
AR3917 erupted on December 06 at 09:26 UT peak time producing a M1.5-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 will rotate 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 395 Km/s on December 07 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 -3 nT on December 07 at 00:30 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 December 07-09.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 07.12.2024 | 10 | Quiet to Unsettled |
| 08.12.2024 | 08 | Quiet to Unsettled |
| 09.12.2024 | 08 | Quiet to Unsettled |

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