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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 December 09 14:12UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 08.12.2024 at 23:00 UTC was 178 sfu.
The background X-Ray flux is at the class C1.3 level.
One X2.2 and one M1.5 solar flares were produced on December 08.
No obviously Earth directed CMEs were observed in available LASCO imagery on December 06-08.
A coronal hole (CH1259) at northern hemisphere rotated into an Earth facing position on December 06-07.
A coronal hole (CH1260) at southern hemisphere rotated across the central meridian on December 04-06.
A coronal hole (CH1261) at northern hemisphere will be rotating across the central meridian on December 08-09.

**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 535 Km/s on December 09 at 07:10 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 -9 nT on December 08 at 23:40 UT during the last 24 hours.
The geomagnetic field was at quiet to active levels during the last 24 hours.
The Kp index now is at unsettled levels with Kp=3.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to unsettled levels on December 09-11.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 09.12.2024 | 10 | Quiet to Unsettled |
| 10.12.2024 | 10 | Quiet to Unsettled |
| 11.12.2024 | 10 | Quiet to Unsettled |

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