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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 December 10 08:37UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 09.12.2024 at 23:00 UTC was 173 sfu.
The background X-Ray flux is at the class C1.4 level.
No obviously Earth directed CMEs were observed in available LASCO imagery on December 07-09.
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 rotated 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 511 Km/s on December 09 at 18:15 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 09 at 13:40 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=2.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to unsettled levels on December 10-12.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 10.12.2024 | 10 | Quiet to Unsettled |
| 11.12.2024 | 10 | Quiet to Unsettled |
| 12.12.2024 | 08 | Quiet to Unsettled |

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