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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 December 14 12:19UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 13.12.2024 at 23:00 UTC was 164 sfu.
The background X-Ray flux is at the class C1.1 level.
Three M-class flares were produced on December 13.
No obviously Earth directed CMEs were observed in available LASCO imagery on December 11-13.
A coronal hole (CH1262) at northern hemisphere was in an Earth facing position on December 11.

**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 351 Km/s on December 13 at 23:40 UT during the last 24 hours.
The solar wind speed from STEREO A was detected 450 Km/s during the last 24 hours.
The vertical component of IMF Bz reached the max value -7 nT on December 14 at 09:15 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 unsettled levels with Kp=3.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet levels on December 14 and at quiet to unsettled levels on December 15-16.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 14.12.2024 | 05 | Quiet |
| 15.12.2024 | 08 | Quiet to Unsettled |
| 16.12.2024 | 08 | Quiet to Unsettled |

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