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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 December 17 07:25UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 16.12.2024 at 23:00 UTC was 167 sfu.
The background X-Ray flux is at the class C1.3 level.
No obviously Earth directed CMEs were observed in available LASCO imagery on December 11-13.
---CME arrival forecast
A CME was observed on December 15 at 02:12 UT. This CME is expected to reach Earth on December 18 between at 05:47 UT and at 21:38 UT.

**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 565 Km/s on December 17 at 06:30 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 -20 nT on December 17 at 04:55 UT during the last 24 hours.
The geomagnetic field was at quiet to minor storm (G1) levels during the last 24 hours.
The Kp index now is at minor storm (G1) levels with Kp=5.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to active levels on December 17-18 and at quiet to unsettled levels on December 19.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 17.12.2024 | 15 | Quiet to Active |
| 18.12.2024 | 15 | Quiet to Active |
| 19.12.2024 | 08 | Quiet to Unsettled |

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Athens Space Weather Forecasting Center
Physics Department, National & Kapodistrian University of Athens
Athens Neutron Monitor Station A.NE.MO.S
Tel.: +30 210 727 6901
email: spaceweather@phys.uoa.gr
URL: http://spaceweather.phys.uoa.gr
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