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Product: Daily Forecast of Geomagnetic Activity
Issued: 2023 December 27 06:12UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 26.12.2023 at 23:00 UTC was 154 sfu.
The background X-Ray flux is at the class B7.7 level.
No obviously Earth directed CMEs were observed in available LASCO imagery on December 21-23.
An equatorial coronal hole (CH1195) will become Earth facing on December 29-30.
---CME arrival forecast
A CME was observed on December 24 at 13:25 UT. This CME could reach Earth on December 27 between at 01:33 UT and at 07:50 UT according to EAM predictions.

**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 498 Km/s on December 27 at 00:50 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 -5 nT on December 26 at 10:05 UT during the last 24 hours.
The geomagnetic field was at quiet levels during the last 24 hours.
The Kp index now is at quiet levels with Kp=1.
The Dst index reached the value 16 nT on December 26 at 14:00 UT during the last 24 hours.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to active levels on December 27 due to effects of CME observed on December 24 and at quiet to unsettled levels on December 28-29.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 27.12.2023 | 12 | Quiet to Active |
| 28.12.2023 | 10 | Quiet to Unsettled |
| 29.12.2023 | 08 | Quiet to Unsettled |

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