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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 December 29 08:02UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 28.12.2024 at 23:00 UTC was 260 sfu.
The background X-Ray flux is at the class M5.9 level.
Three M-class solar flares were produced on December 28 and the largest was the M4.5.
AR3932 erupted on December 28 at 11:21 UT peak time producing a M4.5-Class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on December 26-28.

**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 375 Km/s on December 29 at 06:20 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 29 at 06:20 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.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to unsettled levels on December 29-30 and at quiet levels on December 31.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 29.12.2024 | 08 | Quiet to Unsettled |
| 30.12.2024 | 08 | Quiet to Unsettled |
| 31.12.2024 | 05 | Quiet |

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