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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 December 27 08:39UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 26.12.2024 at 23:00 UTC was 256 sfu.
The background X-Ray flux is at the class C5.2 level.
Two M-class solar flares were produced on December 26 and the largest was the M7.3.
AR3938 erupted on December 26 at 03:15 UT peak time producing a M7.3-Class solar flare and a radio blackout of category R2.
No obviously Earth directed CMEs were observed in available LASCO imagery on December 20-22.

**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 394 Km/s on December 26 at 09:00 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 -3 nT on December 27 at 04:15 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 27-29.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 27.12.2024 | 08 | Quiet to Unsettled |
| 28.12.2024 | 08 | Quiet to Unsettled |
| 29.12.2024 | 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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