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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 January 03 08:44UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 02.01.2025 at 23:00 UTC was 212 sfu.
The background X-Ray flux is at the class C4.8 level.
AR3936 erupted on January 02 at 17:40 UT peak time producing a M1.1-Class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on December 30-31.
A coronal hole (CH1264) at southern hemisphere rotated into an Earth facing position on December 31-January 01.
A coronal hole (CH1265) at northern hemisphere will rotate across the central meridian on January 01-03.

**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 552 Km/s on January 02 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 -2 nT on January 11 at 11:40 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 unsettled levels with Kp=3.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to unsettled levels on January 03 and at quiet to active with a chance of minor storm (G1) levels on January 04-05 due to the effects of coronal hole high speed stream.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 03.01.2025 | 08 | Quiet to Unsettled |
| 04.01.2025 | 18 | Quiet to Active |
| 05.01.2025 | 18 | Quiet to Active |

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