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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 January 04 09:36UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 03.01.2025 at 23:00 UTC was 200 sfu.
The background X-Ray flux is at the class C5.0 level.
Τwo X1-class and three M-class solar flares were produced on January 03.
AR3947 erupted on January 03 at 11:39 UT peak time producing a X1.2-class solar flare and a radio blackout of category R3.
No obviously Earth directed CMEs were observed in available LASCO imagery on January 02-03.
A coronal hole (CH1265) at northern hemisphere rotated 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 547 Km/s on January 04 at 04:25 UT during the last 24 hours.
The solar wind speed from STEREO A was detected 500 Km/s during the last 24 hours.
The vertical component of IMF Bz reached the max value -15 nT on January 04 at 05:40 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 minor storm (G1) levels with Kp=3.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to minor storm (G1) levels on January 04-05 and at quiet to active levels on January 06.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 04.01.2025 | 20 | Quiet to Minor storm (G1) |
| 05.01.2025 | 18 | Quiet to Minor storm (G1) |
| 06.01.2025 | 12 | Quiet to Active |

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