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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 January 05 08:52UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 04.01.2025 at 23:00 UTC was 209 sfu.
The background X-Ray flux is at the class C6.1 level.
One X1-class and three M-class solar flares were produced on January 04.
AR3947 erupted on January 04 at 12:48 UT peak time producing a X1.8-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**
GOES Proton Flux for particles with energies above 10 MeV exceed the SWPC 10 MeV warning threshold on January 04 at 22:10 UT. A solar radiation storm of level S1 was also observed.

**III. Interplanetary and Geomagnetic conditions**
The solar wind speed measured by ACE satellite reached the max value 696 Km/s on January 04 at 23:35 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 -12 nT on January 04 at 16:10 UT during the last 24 hours.
The geomagnetic field was at unsettled 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 minor storm (G1) levels on January 05, at quiet to active levels on January 06 and at quiet to unsettled levels on January 07.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 05.01.2025 | 18 | Quiet to Minor storm (G1) |
| 06.01.2025 | 12 | Quiet to Active |
| 07.01.2025 | 08 | Quiet to Unsettled |

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