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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 January 08 07:21UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 07.01.2025 at 23:00 UTC was 168 sfu.
The background X-Ray flux is at the class C1.7 level.
AR3939 erupted on January 07 at 23:05 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 January 05-07.

**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 610 Km/s on January 07 at 11:10 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 -4 nT on January 07 at 22:20 UT during the last 24 hours.
The geomagnetic field was at quiet to active storm levels during the last 24 hours.
The Kp index now is at quiet levels with Kp=2.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to unsettled levels on January 08-10.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 08.01.2025 | 08 | Quiet to Unsettled |
| 09.01.2025 | 06 | Quiet to Unsettled |
| 10.01.2025 | 06 | Quiet to Unsettled |

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