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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 January 30 05:05UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 29.01.2025 at 23:00 UTC was 173 sfu.
The background X-Ray flux is at the class C1.6 level.
AR3977 erupted on January 29 at 04:08 UT peak time producing a M1.0-Class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on January 27-29.
An equatorial coronal hole (CH1268) will be Earth facing position on January 28 -February 02.

**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 364 Km/s on January 29 at 12:55 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 -7 nT on January 29 at 07:45 UT during the last 24 hours.
The geomagnetic field was at quiet to unsettled 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 January 30 and at quiet to active levels with a chance of minor storm (G1) levels on January 31-February 01 due to the effect of the recurrent coronal hole high speed stream.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 30.01.2025 | 05 | Quiet to Unsettled |
| 31.01.2025 | 10 | Quiet to Active |
| 01.02.2025 | 15 | Quiet to Active |

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