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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 January 21 04:44UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 20.01.2025 at 23:00 UTC was 230 sfu.
The background X-Ray flux is at the class C2.6 level.
No obviously Earth directed CMEs were observed in available LASCO imagery on January 17-19.
A coronal hole (CH1267) at southern hemisphere rotated across the central meridian on January 14-16.

**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 695 Km/s on January 21 at 01:35 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 20 at 12:05 UT during the last 24 hours.
The geomagnetic field was at quiet to active 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 active levels on January 21 and at quiet levels on January 22-23.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 21.01.2025 | 12 | Quiet to Active |
| 22.01.2025 | 05 | Quiet |
| 23.01.2025 | 05 | Quiet |

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