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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 January 18 08:45UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 17.01.2025 at 23:00 UTC was 227 sfu.
The background X-Ray flux is at the class C2.0 level.
Nine M-class solar flares were produced on January 17 and the biggest was the M7.5.
No obviously Earth directed CMEs were observed in available LASCO imagery on January 14-16.
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 602 Km/s on January 17 at 21:40 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 -8 nT on January 17 at 14:00 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 unsettled levels with isolated active periods on January 18-20.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 18.01.2025 | 15 | Quiet to Unsettled |
| 19.01.2025 | 12 | Quiet to Unsettled |
| 20.01.2025 | 08 | Quiet to Unsettled |

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