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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 January 25 14:30UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 24.01.2024 at 23:00 UTC was 172 sfu.
The background X-Ray flux is at the class C3.3 level.
Four M class solar flares were produced on January 24 and the biggest was the M2.7. AR3561 erupted on January 24 at 01:40 UT peak time producing a M2.7 class solar flare and a radioblackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on January 18-19.
A coronal hole (CH1199) at southern hemisphere will become Earth facing on January 25-26. Another coronal hole (CH1200) at northern hemisphere will become Earth facing on January 25-26.

**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 417 Km/s on January 25 at 06:50 UT during the last 24 hours.
The solar wind speed from STEREO A was detected 450 Km/s during the last 24 hours.
The vertical component of IMF Bz reached the max value -5 nT on January 25 at 11:25 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=2.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to active levels on January 25-27 due to effects of multiple partial halo CMEs were observed on January 23.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 25.01.2024 | 12 | Quiet to Active |
| 26.01.2024 | 18 | Quiet to Active |
| 27.01.2024 | 15 | Quiet to Active |

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