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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 January 24 05:08UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 23.01.2024 at 23:00 UTC was 180 sfu.
The background X-Ray flux is at the class C3.3 level.
Eight M class solar flares were produced on January 23 and the biggest was the M4.3.AR3561 erupted on January 23 at 16:40 UT peak time producing a M4.3 class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on January 18-19.

**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 470 Km/s on January 24 at 01:55 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 -11 nT on January 24 at 02:25 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 active levels with Kp=4.
The Dst index reached the value -14 nT on January 24 at 05:00 UT during the last 24 hours.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to active levels on January 24-26 due to effects of CMEs observed on January 21 and 22.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 24.01.2024 | 15 | Quiet to Active |
| 25.01.2024 | 12 | Quiet to Active |
| 26.01.2024 | 15 | Quiet to Active |

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