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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 January 29 04:59UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 28.01.2024 at 23:00 UTC was 141 sfu.
The background X-Ray flux is at the class M6.4 level.
No obviously Earth directed CMEs were observed in available LASCO imagery on January 25-27.
A coronal hole (CH1199) at southern hemisphere will become Earth facing on January 26-28. Another coronal hole (CH1200) at northern hemisphere was 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 464 Km/s on January 28 at 22:40 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 -6 nT on January 28 at 16:10 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 unsettled levels with Kp=3.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to unsettled levels on January 29-31 and at quiet to active levels on January 30 due to the effects of coronal holes high speed stream.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 29.01.2024 | 10 | Quiet to Unsettled |
| 30.01.2024 | 12 | Quiet to Active |
| 31.01.2024 | 10 | Quiet to Unsettled |

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