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Product: Daily Forecast of Geomagnetic Activity  
Issued: 2025 January 06 09:49UTC  
Prepared by the Athens Space Weather Forecasting Center  
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**I. Solar activity**  
*--Current Status*  
Solar Flux (10.7cm) measured on 05.01.2025 at 23:00 UTC was 169 sfu.  
The background X-Ray flux is at the class C1.5 level.  
Four M-class solar flares were produced on January 05.  
No obviously Earth directed CMEs were observed in available LASCO imagery on January 02-03.  
A coronal hole (CH1265) at northern hemisphere rotated across the central meridian on January 01-03.  
---CME arrival forecast  
A CME was observed on January 04 at 18:48 UT. This CME is expected to reach Earth on January 07 between at 00:54 UT and at 11:11 UT.  
  
**II. Solar Energetic Particle Events**  
GOES Proton Flux for particles with energies above 10 MeV exceed the SWPC 10 MeV warning threshold on January 04 at 22:10 UT. A solar radiation storm of level S1 was also observed.The minor solar proton event ended on January 05 at 13:30UT  
  
**III. Interplanetary and Geomagnetic conditions**  
The solar wind speed measured by ACE satellite reached the max value 609 Km/s on January 05 at 16:30 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 05 at 17:15 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 unsettled levels with Kp=3.  
  
  
**IV. 3-day Geomagnetic Activity Forecast**  
The geomagnetic field is expected to be at quiet to active levels on January 06-07 due to the continuous effect of the recurrent coronal hole high speed streams and the effect of the CME and at quiet to unsettled levels on January 08.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 06.01.2025 | 15 | Quiet to Active |
| 07.01.2025 | 12 | Quiet to Active |
| 08.01.2025 | 10 | Quiet to Unsettled |

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