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Product: Daily Forecast of Geomagnetic Activity  
Issued: 2025 January 07 07:42UTC  
Prepared by the Athens Space Weather Forecasting Center  
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**I. Solar activity**  
*--Current Status*  
Solar Flux (10.7cm) measured on 06.01.2025 at 23:00 UTC was 172 sfu.  
The background X-Ray flux is at the class C1.2 level.  
Three M-class solar flares were produced on January 06.  
No obviously Earth directed CMEs were observed in available LASCO imagery on January 05-06.  
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**  
Protons and electrons fluxes are quiet.  
  
**III. Interplanetary and Geomagnetic conditions**  
The solar wind speed measured by ACE satellite reached the max value 625 Km/s on January 07 at 05:05 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 07 at 05:05 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 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 08-09.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 07.01.2025 | 12 | Quiet to Active |
| 08.01.2025 | 08 | Quiet to Unsettled |
| 09.01.2025 | 06 | Quiet to Unsettled |

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Athens Space Weather Forecasting Center  
Physics Department, National & Kapodistrian University of Athens  
Athens Neutron Monitor Station A.NE.MO.S  
Tel.: +30 210 727 6901  
email: spaceweather@phys.uoa.gr  
URL: http://spaceweather.phys.uoa.gr  
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