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Product: Daily Forecast of Geomagnetic Activity  
Issued: 2025 January 16 07:29UTC  
Prepared by the Athens Space Weather Forecasting Center  
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**I. Solar activity**  
*--Current Status*  
Solar Flux (10.7cm) measured on 15.01.2025 at 23:00 UTC was 174 sfu.  
The background X-Ray flux is at the class C2.6 level.  
No obviously Earth directed CMEs were observed in available LASCO imagery on January 13-15.  
A coronal hole (CH1267) at southern hemisphere will be rotating across the central meridian on January 14-16.  
  
  
**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 546 Km/s on January 16 at 01:45 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 -8 nT on January 15 at 13:50 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 unsettled levels with isolated active periods on January 16-18.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 16.01.2025 | 12 | Quiet to Unsettled |
| 17.01.2025 | 15 | Quiet to Unsettled |
| 18.01.2025 | 15 | Quiet to Unsettled |

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