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Product: Daily Forecast of Geomagnetic Activity  
Issued: 2025 February 16 08:35UTC  
Prepared by the Athens Space Weather Forecasting Center  
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**I. Solar activity**  
*--Current Status*  
Solar Flux (10.7cm) measured on 15.02.2025 at 23:00 UTC was 184 sfu.  
The background X-Ray flux is at the class C1.5 level.  
No obviously Earth directed CMEs were observed in available LASCO imagery on February 12-14.  
A coronal hole (CH1270) at southern hemisphere was in an Earth facing position on February 10-12.  
  
**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 670 Km/s on February 15 at 19:00 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 February 15 at 09:55 UT during the last 24 hours.  
The geomagnetic field was at unsettled to minor storm (G1) levels during the last 24 hours.  
The Kp index now is at active levels with Kp=4.  
  
**IV. 3-day Geomagnetic Activity Forecast**  
The geomagnetic field is expected to be at quiet to active levels on February 16 due to the effect of recurrent coronal holes high speed stream and at quiet to unsettled levels on February 17-18.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 16.02.2025 | 20 | Quiet to Active |
| 17.02.2025 | 12 | Quiet to Unsettled |
| 18.02.2025 | 08 | Quiet to Unsettled |

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