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Product: Daily Forecast of Geomagnetic Activity  
Issued: 2025 February 17 07:58UTC  
Prepared by the Athens Space Weather Forecasting Center  
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**I. Solar activity**  
*--Current Status*  
Solar Flux (10.7cm) measured on 16.02.2025 at 23:00 UTC was 185 sfu.  
The background X-Ray flux is at the class C1.8 level.  
No obviously Earth directed CMEs were observed in available LASCO imagery on February 14-16.  
A coronal hole (CH1270) at southern hemisphere was in an Earth facing position on February 10-14.  
  
**II. Solar Energetic Particle Events**  
Protons fluxes are quiet.  
The greater than 2 MeV electron flux at geosynchronous orbit reached minor storm levels.  
  
**III. Interplanetary and Geomagnetic conditions**  
The solar wind speed measured by ACE satellite reached the max value 567 Km/s on February 16 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 -6 nT on February 17 at 04:45 UT during the last 24 hours.  
The geomagnetic field was at unsettled 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 February 17 due to the effect of recurrent coronal holes high speed stream and at quiet to unsettled levels on February 18-19.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 17.02.2025 | 15 | Quiet to Active |
| 18.02.2025 | 12 | Quiet to Unsettled |
| 19.02.2025 | 08 | Quiet to Unsettled |

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