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Product: Daily Forecast of Geomagnetic Activity  
Issued: 2025 February 22 06:40UTC  
Prepared by the Athens Space Weather Forecasting Center  
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**I. Solar activity**  
*--Current Status*  
Solar Flux (10.7cm) measured on 21.02.2025 at 23:00 UTC was 197 sfu.  
The background X-Ray flux is at the class C2.7 level.  
Two M-class solar flares were produced on February 21 and the biggest was the M3.4.  
AR4000 erupted on February 21 at 12:15 UT peak time producing a M3.4-class solar flare and a radio blackout of category R1.  
No obviously Earth directed CMEs were observed in available LASCO imagery on February 18-20.  
An equatorial coronal hole (CH1271) will likely become Earth facing on February 24-26.  
  
**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 381 Km/s on February 21 at 07:05 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 -4 nT on February 21 at 22:10 UT during the last 24 hours.  
The geomagnetic field was at quiet to unsettled levels during the last 24 hours.  
The Kp index now is at quiet levels with Kp=1.  
  
**IV. 3-day Geomagnetic Activity Forecast**  
The geomagnetic field is expected to be at quiet levels on February 22-24.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 22.02.2025 | 05 | Quiet |
| 23.02.2025 | 05 | Quiet |
| 24.02.2025 | 05 | Quiet |

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