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Product: Daily Forecast of Geomagnetic Activity  
Issued: 2025 February 21 05:02UTC  
Prepared by the Athens Space Weather Forecasting Center  
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**I. Solar activity**  
*--Current Status*  
Solar Flux (10.7cm) measured on 20.02.2025 at 23:00 UTC was 184 sfu.  
The background X-Ray flux is at the class C2.5 level.  
No obviously Earth directed CMEs were observed in available LASCO imagery on February 17-19.  
  
**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 490 Km/s on February 20 at 07:45 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 -4 nT on February 20 at 22:30 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 levels on February 21-23.

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| --- | --- | --- |
| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 21.02.2025 | 05 | Quiet |
| 22.02.2025 | 05 | Quiet |
| 23.02.2025 | 05 | Quiet |

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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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