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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 February 20 04:48UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 19.02.2025 at 23:00 UTC was 178 sfu.
The background X-Ray flux is at the class C1.0 level.
No obviously Earth directed CMEs were observed in available LASCO imagery on February 16-18.

**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 520 Km/s on February 19 at 05:50 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 19 at 17:10 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 active levels with Kp=4.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to unsettled levels on February 20 and at quiet levels on February 21-22.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 20.02.2025 | 10 | Quiet to Unsettled |
| 21.02.2025 | 05 | Quiet |
| 22.02.2025 | 05 | Quie |

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