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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 February 26 04:53UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 25.02.2024 at 23:00 UTC was 181 sfu.
The background X-Ray flux is at the class C1.6 level.
AR3590 erupted on February 25 at 17:22 UT peak time producing a M2.1 class solar flare and a radioblackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on February 22-24.
A coronal hole (CH1202) at southern hemisphere was Earth facing position on February 21-24.

**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 436 Km/s on February 25 at 05:05 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 -9 nT on February 26 at 00:00 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 unsettled levels with Kp=3.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to unsettled levels on February 26-28.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 26.02.2024 | 10 | Quiet to Unsettled |
| 27.02.2024 | 08 | Quiet to Unsettled |
| 28.02.2024 | 08 | Quiet to Unsettled |

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