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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 February 09 06:20UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 08.02.2024 at 23:00 UTC was 185 sfu.
The background X-Ray flux is at the class C2.3 level.
Four M class solar flares were produced on February 08 and the biggest was the M4.0. AR3575 erupted on February 08 at 23:55 UT peak time producing a M4.0 class solar flare and a radioblackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on February 03-05.

**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 498 Km/s on February 08 at 10:50 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 -3 nT on February 08 at 18:10 UT during the last 24 hours.
The geomagnetic field was at quiet 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 to unsettled levels on February 09-11.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 09.02.2024 | 10 | Quiet to Unsettled |
| 10.02.2024 | 08 | Quiet to Unsettled |
| 11.02.2024 | 06 | Quiet to Unsettled |

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