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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 February 22 04:59UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 21.02.2024 at 23:00 UTC was 153 sfu.
The background X-Ray flux is at the class C2.0 level.
AR3590 erupted on February 21 at 23:07 UT peak time producing a X1.8 class solar flare and a radioblackout of category R3.
No obviously Earth directed CMEs were observed in available LASCO imagery on February 18-20.
A coronal hole (CH1202) at southern hemisphere could become 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 362 Km/s on February 21 at 15:55 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 -5 nT on February 22 at 04:35 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=2.

**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** |
| 22.02.2024 | 05 | Quiet |
| 23.02.2024 | 05 | Quiet |
| 24.02.2024 | 05 | Quiet |

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