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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 February 17 07:50UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 16.02.2024 at 23:00 UTC was 169 sfu.
The background X-Ray flux is at the class C1.9 level.
AR3576 erupted on February 16 at 06:53 UT peak time producing a X2.5 class solar flare and a radioblackout of category R3.
No obviously Earth directed CMEs were observed in available LASCO imagery on February 12-14.
A small coronal hole at southern hemisphere was Earth facing on February 15.

**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 485 Km/s on February 17 at 01:25 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 -6 nT on February 17 at 02:25 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 levels on February 17-19.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 17.02.2024 | 05 | Quiet |
| 18.02.2024 | 05 | Quiet |
| 19.02.2024 | 05 | Quiet |

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