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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 May 24 07:26UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 23.05.2024 at 23:00 UTC was 176 sfu.
The background X-Ray flux is at the class M1.2 level.
Four M-Class flares were produced on May 23 and the biggest was the M4.2 class solar flare.
AR3679 erupted on May 23 at 02:16 UT peak time producing a M4.2 class solar flare and a radioblackout of category R1.
A coronal hole (CH1222) at northern hemisphere was in an Earth facing position on May 21-22.

**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 393 Km/s on May 23 at 21:50 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 -9 nT on May 23 at 20:00 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 unsettled levels with Kp=3.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to unsettled levels on May 24-26.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 24.05.2024 | 12 | Quiet to Unsettled |
| 25.05.2024 | 10 | Quiet to Unsettled |
| 26.05.2024 | 08 | Quiet to Unsettled |

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Athens Space Weather Forecasting Center
Physics Department, National & Kapodistrian University of Athens
Athens Neutron Monitor Station A.NE.MO.S
Tel.: +30 210 727 6901
email: spaceweather@phys.uoa.gr
URL: http://spaceweather.phys.uoa.gr
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