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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 May 22 06:15UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 21.05.2024 at 23:00 UTC was 191 sfu.
The background X-Ray flux is at the class C2.4 level.
AR3679 erupted on May 21 at 19:31 UT peak time producing a M1.9 class solar flare and a radioblackout of category R1.
A coronal hole (CH1222) at northern hemisphere will rotate into 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 444 Km/s on May 21 at 18:50 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 -6 nT on May 21 at 14:00 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 quiet levels with Kp=1.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to unsettled levels on May 22-24.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 22.05.2024 | 08 | Quiet to Unsettled |
| 23.05.2024 | 08 | Quiet to Unsettled |
| 24.05.2024 | 08 | Quiet to Unsettled |

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