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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 May 31 08:30UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 30.05.2024 at 23:00 UTC was 175 sfu.
The background X-Ray flux is at the class C1.5 level.
AR3691 erupted on May 30 at 07:13 UT peak time producing a M1.1 class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on May 26-28.
---CME arrival forecast
A partial hallo CME was observed on May 29 at 14:48 UT from AR3697 following the X1.4 class solar flare. This CME could reach Earth on June 01 between 13:48 UT and 15:33 UT according to EAM

**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 373 Km/s on May 31 at 05:15 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 -8 nT on May 31 at 03:50 UT during the last 24 hours.
The geomagnetic field was at quiet to minor storm (G1) levels during the last 24 hours.
The Kp index now is at minor storm (G1) levels with Kp=5.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to minor storm (G1) levels on May 31-June 01 due to CME effects observed on May 29 and at quiet to unsettled levels on June 02.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 31.05.2024 | 18 | Quiet to Minor storm (G1) |
| 01.06.2024 | 18 | Quiet to Minor storm (G1) |
| 02.06.2024 | 08 | Quiet to Unsettled |

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