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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 May 30 07:17UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 29.05.2024 at 23:00 UTC was 171 sfu.
The background X-Ray flux is at the class C1.9 level.
Seven M-class solar flares and one X1.4 class were produced on May 29.
AR3697 erupted on May 29 at 14:37 UT peak time producing a X1.4 class solar flare and a radio blackout of category R3.
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 predictions.

**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 377 Km/s on May 30 at 00:00 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 29 at 17:35 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 to unsettled levels on May 30, at quiet to active levels on May 31 and at quiet to minor storm (G1) levels on June 01 due to CME effects observed on May 29.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 30.05.2024 | 06 | Quiet to Unsettled |
| 31.05.2024 | 15 | Quiet to Active |
| 01.06.2024 | 18 | Quiet to Minor storm (G1) |

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