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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 June 04 07:32UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 03.06.2024 at 23:00 UTC was 186 sfu.
The background X-Ray flux is at the class C8.8 level.
Four M-class solar flares were produced on June 03 and the biggest was the M4.8.
AR3695 erupted on June 03 at 14:11 UT peak time producing a M4.8 class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on May 30-31.
A coronal hole (CH1224) at northern hemisphere could rotate across the central meridian on June 04-05.
---CME arrival forecast
A CME was observed on June 01 at 20:00 UT from AR3697 following a M7.3 class solar flare peaking at 19:40 UT. This CME could reach Earth on June 04 between 18:56 UT and 20:30 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 434 Km/s on June 04 at 01:55 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 June 04 at 04:05 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 unsettled levels with Kp=3.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to active levels with a chance of minor storm (G1) levels on June 04 due to the CME observed on June 01, at quiet to unsettled levels on June 05 and at quiet levels on June 06.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 04.06.2024 | 15 | Quiet to Minor storm (G1) |
| 05.06.2024 | 10 | Quiet to Unsettled |
| 06.06.2024 | 05 | Quiet |

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