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Product: Daily Forecast of Geomagnetic Activity  
Issued: 2025 June 02 04:02UTC  
Prepared by the Athens Space Weather Forecasting Center  
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**I. Solar activity**  
*--Current Status*  
Solar Flux (10.7cm) measured on 01.06.2025 at 23:00 UTC was 150 sfu.  
The background X-Ray flux is at the class B8.4 level.  
No obviously Earth directed CMEs were observed in available LASCO imagery on May 29.  
An equatorial coronal hole (CH1298) was Earth facing on May 27-31.  
---CME arrival forecast  
A CME was observed on May 30 at 06:38 UT. This CME is expected to reach Earth on June 02 between at 05:33 UT and 07:08 UT according to EAM predictions.  
Another CME was observed on May 31 at 00:15 UT. The source is an M8.1 flare from AR 14100 (N12E12). This CME is expected to reach Earth between on June 01 at 07:59 UT and on June 02 at 07:09 UT according to EAM predictions.  
  
**II. Solar Energetic Particle Events**  
GOES Proton Flux for particles with energies above 10 MeV exceed the SWPC 10 MeV warning threshold on May 31 at 17:10. A solar radiation storm of level S2 was also observed.  
  
**III. Interplanetary and Geomagnetic conditions**  
The solar wind speed measured by ACE satellite reached the max value 1078 Km/s on June 01 at 12:25 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 -20 nT on June 01 at 05:30 UT during the last 24 hours.  
The geomagnetic field was at active to severe storm (G4) 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 unsettled to moderate storm (G2) levels on June 02 due to the continuous effects of halo CME observed on May 31 and at quiet to active levels on June 03-04.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 02.06.2025 | 35 | Unsettled to Moderate storm (G2) |
| 03.06.2025 | 25 | Quiet to Active |
| 04.06.2025 | 15 | Quiet to Active |

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