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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 June 16 04:37UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 15.06.2025 at 23:00 UTC was 161 sfu.
The background X-Ray flux is at the class M1.5 level.
Four M-class solar flares were produced on June 15 and the biggest was the M8.5.
AR4114 erupted on June 15 at 18:07 UT peak time producing a M8.5-class solar flare and a radio blackout of category R2.
No obviously Earth directed CMEs were observed in available LASCO imagery on June 12-14.
A coronal hole (CH1301) at southern hemisphere will be Earth facing on June 11-18.

**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 535 Km/s on June 15 at 06:55 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 -8 nT on June 16 at 04:25 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 at quiet levels with Kp=2.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to active levels on June 16-17 due to effects associated with CH1301 and at quiet to unsettled levels on June 18.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 16.06.2025 | 12 | Quiet to Active |
| 17.06.2025 | 12 | Quiet to Active |
| 18.06.2025 | 10 | Quiet to Unsettled |

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