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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 September 06 07:29UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 05.09.2025 at 23:00 UTC was 149 sfu.
The background X-Ray flux is at the class C2.3 level.
AR4207 erupted on September 05 at 01:16 UT peak time producing a M1.4-class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on September 03 and September 05.
A coronal hole (CH1315) at southern hemisphere will rotate into an Earth facing position on September 02-07.
---CME arrival forecast
A CME was observed on September 04 at 20:30 UT. This CME is expected to reach Earth between on September 06 at 21:53 UT and on September 07 at 11:55 UT.

**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 534 Km/s on September 06 at 06:20 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 September 06 at 03:30 UT during the last 24 hours.
The geomagnetic field was at quiet to active levels during the last 24 hours.
The Kp index now is at active levels with Kp=4.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to minor storm (G1) levels on September 06-08 due to the effects of the recurrent coronal hole high speed stream and CME on September 04.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 06.09.2025 | 25 | Quiet to Minor storm (G1) |
| 07.09.2025 | 30 | Quiet to Minor storm (G1) |
| 08.09.2025 | 12 | Quiet to Minor storm (G1) |

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