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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 July 27 06:45UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 26.07.2025 at 23:00 UTC was 143 sfu.
The background X-Ray flux is at the class B8.7 level.
No obviously Earth directed CMEs were observed in available LASCO imagery on July 24-25.
A coronal hole (CH1308) at northern hemisphere will rotate across the central meridian on July 26-27.
---CME arrival forecast
A CME was observed on July 23 at 04:53 UT. This CME was expected to reach Earth on July 26 between at 08:30 UT and at 21:51 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 557 Km/s on July 26 at 10:05 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 July 26 at 11:55 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 quiet levels with Kp=1.

**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 July 27 due to CME effects and at quiet to unsettled levels on July 28-29.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 27.07.2025 | 20 | Quiet to Active |
| 28.07.2025 | 12 | Quiet to Unsettled |
| 29.07.2025 | 08 | Quiet to Unsettled |

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