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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 July 13 07:37UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 12.07.2025 at 23:00 UTC was 139 sfu.
The background X-Ray flux is at the class C1.7 level.
Three M-class solar flares were produced on July 12 and the biggest was the M2.3.
AR4140 erupted on July 12 at 08:34 UT peak time producing a M2.3-class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on July 10-12.
An equatorial coronal hole (CH1306) will be Earth facing on July 08-14.

**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 686 Km/s on July 13 at 07:15 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 13 at 00:50 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 minor storm (G1) levels with Kp=5.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to unsettled levels with isolated active periods on July 13-14 due to the effect of the recurrent coronal hole high speed stream and at quiet to unsettled levels on July 15.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 13.07.2025 | 15 | Quiet to Active |
| 14.07.2025 | 10 | Quiet to Active |
| 15.07.2025 | 08 | Quiet to Unsettled |

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