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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 August 19 05:48UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 18.08.2025 at 23:00 UTC was 114 sfu.
The background X-Ray flux is at the class C4.0 level.
No obviously Earth directed CMEs were observed in available LASCO imagery on August 15-16.
An equatorial coronal hole (CH1312) rotated across the central meridian on August 15-18.

**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 399 Km/s on August 19 at 01:20 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 -7 nT on August 18 at 10:25 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 unsettled levels with Kp=3.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to minor storm (G1) levels on August 19-20 due to effects of a coronal hole high speed wind stream and at quiet to active levels on August 21.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 19.08.2025 | 30 | Quiet to Minor storm (G1) |
| 20.08.2025 | 20 | Quiet to Minor storm (G1) |
| 21.08.2025 | 12 | Quiet to Active |

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