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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 May 21 03:52UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 20.05.2025 at 23:00 UTC was 119 sfu.
The background X-Ray flux is at the class B6.0 level.
No obviously Earth directed CMEs were observed in available LASCO imagery on May 17-19.
A coronal hole (CH1294) at southern hemisphere will be Earth facing on May 15-23.
A coronal hole (CH1295) at northern hemisphere will likely become Earth facing on May 21-22.

**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 614 Km/s on May 21 at 01:55 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 -7 nT on May 20 at 10:50 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 unsettled levels with isolated active periods on May 21-23 due to the continuous effect of the coronal hole (CH1294) high speed stream.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 21.05.2025 | 12 | Quiet to Unsettled |
| 22.05.2025 | 12 | Quiet to Unsettled |
| 23.05.2025 | 12 | Quiet to Unsettled |

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Athens Space Weather Forecasting Center
Physics Department, National & Kapodistrian University of Athens
Athens Neutron Monitor Station A.NE.MO.S
Tel.: +30 210 727 6901
email: spaceweather@phys.uoa.gr
URL: http://spaceweather.phys.uoa.gr
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