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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 April 22 11:19UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 21.04.2025 at 23:00 UTC was 163 sfu.
The background X-Ray flux is at the class M1.3 level.
AR4062 erupted on April 21 at 18:37 UT peak time producing a M1.9-class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on April 19-21.
A coronal hole (CH1286) at southern hemisphere will rotate across the central meridian on April 17-23.

**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 721 Km/s on April 21 at 14:10 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 April 21 at 17:55 UT during the last 24 hours.
The geomagnetic field was at unsettled to minor storm (G1) 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 April 22 due to the effect of the recurrent coronal hole high speed stream and at quiet to active levels on April 23-24.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 22.04.2025 | 30 | Quiet to Minor Storm (G1) |
| 23.04.2025 | 20 | Quiet to Active |
| 24.04.2025 | 18 | Quiet to Active |

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