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Product: Daily Forecast of Geomagnetic Activity  
Issued: 2025 April 21 07:24UTC  
Prepared by the Athens Space Weather Forecasting Center  
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**I. Solar activity**  
*--Current Status*  
Solar Flux (10.7cm) measured on 20.04.2025 at 23:00 UTC was 156 sfu.  
The background X-Ray flux is at the class C1.4 level.  
A M1.0 solar flare was produced on April 20 at 12:11 UT.  
No obviously Earth directed CMEs were observed in available LASCO imagery on April 18-20.  
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 559 Km/s on April 20 at 07:05 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 -12 nT on April 21 at 01:10 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 moderate storm (G2) levels on April 21 due to the effect of the recurrent coronal hole high speed stream, at quiet to minor storm (G1) levels on April 22 and at quiet to active levels on April 23.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 21.04.2025 | 30 | Quiet to Moderate Storm (G2) |
| 22.04.2025 | 35 | Quiet to Minor Storm (G1) |
| 23.04.2025 | 18 | Quiet to Active |

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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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