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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 April 21 08:14UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 20.04.2024 at 23:00 UTC was 210 sfu.
The background X-Ray flux is at the class C2.5 level.
No obviously Earth directed CMEs were observed in available LASCO imagery on April 15-17.
A coronal hole (CH1214) at southern hemisphere rotated across the central meridian on April 17. A small equatorial coronal hole (CH1215) will likely become Earth facing on April 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 472 Km/s on April 20 at 22:55 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 -4 nT on April 20 at 19:30 UT during the last 24 hours.
The geomagnetic field was at quiet to unsettled levels during the last 24 hours due to the effects of the CME.
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 unsettled levels on April 21-23.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 21.04.2024 | 10 | Quiet to Unsettled |
| 22.04.2024 | 08 | Quiet to Unsettled |
| 23.04.2024 | 08 | 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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