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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 October 21 06:04UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 20.10.2024 at 23:00 UTC was 162 sfu.
The background X-Ray flux is at the class C2.1 level.
No obviously Earth directed CMEs were observed in available LASCO imagery on October 18-20.
A coronal hole (CH1248) at northern hemisphere was Earth facing on October 18-19.

**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 421 Km/s on October 20 at 10:15 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 -3 nT on October 21 at 05:05 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 quiet levels with Kp=1.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to unsettled levels on October 21-23.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 21.10.2024 | 08 | Quiet to Unsettled |
| 22.10.2024 | 12 | Quiet to Unsettled |
| 23.10.2024 | 08 | Quiet to Unsettled |

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