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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 October 22 08:06UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 21.10.2024 at 23:00 UTC was 164 sfu.
The background X-Ray flux is at the class C3.0 level.
No obviously Earth directed CMEs were observed in available LASCO imagery on October 19-21.
A coronal hole (CH1248) at northern hemisphere was Earth facing on October 18-19.
An equatorial coronal hole (CH1249) will rotate across the central meridian on October 25.

**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 364 Km/s on October 21 at 09:00 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 -6 nT on October 22 at 05:05 UT during the last 24 hours.
The geomagnetic field was at quiet levels during the last 24 hours.
The Kp index now is at quiet levels with Kp=2.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to active levels on October 22 and at quiet to unsettled levels on October 23-24.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 22.10.2024 | 12 | Quiet to Active |
| 23.10.2024 | 08 | Quiet to Unsettled |
| 24.10.2024 | 06 | Quiet to Unsettled |

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