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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 October 13 07:01UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 12.10.2024 at 23:00 UTC was 214 sfu.
The background X-Ray flux is at the class C2.9 level.
No obviously Earth directed CMEs were observed in available LASCO imagery on October 10-11.
A small northern hemisphere coronal hole (CH1246) will likely rotate into an Earth facing position on October 12-13.

**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 624 Km/s on October 12 at 12:35 UT during the last 24 hours.
The solar wind speed from STEREO A was detected 500 Km/s during the last 24 hours.
The vertical component of IMF Bz reached the max value -6 nT on October 12 at 08:30 UT during the last 24 hours.
The geomagnetic field was at quiet to minor storm (G1) 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 13-15.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 13.10.2024 | 12 | Quiet to Unsettled |
| 14.10.2024 | 10 | Quiet to Unsettled |
| 15.10.2024 | 10 | Quiet to Unsettled |

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