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Product: Daily Forecast of Geomagnetic Activity
Issued: 2023 December 22 06:40UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 21.12.2023 at 23:00 UTC was 194 sfu.
The background X-Ray flux is at the class C1.5 level.
No obviously Earth directed CMEs were observed in available LASCO imagery on December 18-20.
A coronal hole (CH1194) at southern hemisphere was Earth facing on December 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 497 Km/s on December 21 at 09:45 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 December 21 at 11:30 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.The Dst index reached the value -25 nT on December 21 at 11:00 UT during the last 24 hours.

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

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 22.12.2023 | 05 | Quiet |
| 23.12.2023 | 06 | Quiet to Unsettled |
| 24.12.2023 | 06 | Quiet to Unsettled |

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