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Product: Daily Forecast of Geomagnetic Activity
Issued: 2023 December 19 05:07UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 18.12.2023 at 23:00 UTC was 161 sfu.
The background X-Ray flux is at the class C1.7 level.
No obviously Earth directed CMEs were observed in available LASCO imagery on December 16-17.
A coronal hole (CH1193) at northern hemisphere was Earth facing on December 14-16.

**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 623 Km/s on December 18 at 23:25 UT during the last 24 hours.
The solar wind speed from STEREO A was detected 600 Km/s during the last 24 hours.
The vertical component of IMF Bz reached the max value -10 nT on December 18 at 05:50 UT during the last 24 hours.
The geomagnetic field was at unsettled to moderate storm (G2) levels during the last 24 hours.
The Kp index now is at active levels with Kp=4.
The Dst index reached the value -71 nT on December 18 at 09:00 UT during the last 24 hours.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to active levels on December 19 and at quiet to unsettled levels on December 20-21.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 19.12.2023 | 15 | Quiet to Active |
| 20.12.2023 | 10 | Quiet to Unsettled |
| 21.12.2023 | 10 | Quiet to Unsettled |

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