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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 November 21 08:49UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 20.11.2024 at 23:00 UTC was 163 sfu.
The background X-Ray flux is at the class C1.9 level.
AR3889 erupted on November 20 at 19:48 UT peak time producing a M1.2-Class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on November 18-20.
A coronal hole (CH1256) at southern hemisphere rotated across the central meridian on November 18.
A coronal hole (CH1257) at southern hemisphere was Earth facing on November 19-20.

**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 391 Km/s on November 20 at 14:30 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 -7 nT on November 21 at 03:50 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 November 21-23 due to the effect of the recurrent coronal hole high speed stream.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 21.11.2024 | 08 | Quiet to Unsettled |
| 22.11.2024 | 10 | Quiet to Unsettled |
| 23.11.2024 | 10 | Quiet to Unsettled |

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