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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 November 23 08:35UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 22.11.2024 at 23:00 UTC was 179 sfu.
The background X-Ray flux is at the class C1.9 level.
Two M-class flares were produced on November 22 and the largest was the M1.6.
AR3905 erupted on November 22 at 15:46 UT peak time producing a M1.6-Class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on November 19-20.
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**
GOES Proton Flux for particles with energies above 10 MeV exceed the SWPC 10 MeV warning threshold on November 21 at 19:20. A solar radiation storm of level S2 was also observed.

**III. Interplanetary and Geomagnetic conditions**
The solar wind speed measured by ACE satellite reached the max value 433 Km/s on November 23 at 00:40 UT during the last 24 hours.
The solar wind speed from STEREO A was detected 450 Km/s during the last 24 hours.
The vertical component of IMF Bz reached the max value -8 nT on November 22 at 20:45 UT during the last 24 hours.
The geomagnetic field was at quiet to active 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 unsettled levels on November 23-25.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 23.11.2024 | 10 | Quiet to Unsettled |
| 24.11.2024 | 08 | Quiet to Unsettled |
| 25.11.2024 | 08 | Quiet to Unsettled |

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