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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 November 07 10:32UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 06.11.2024 at 23:00 UTC was 260 sfu.
The background X-Ray flux is at the class C4.5 level.
One X2.3-Class and thirteen M-class solar flares were produced on November 06.
AR3883 erupted on November 06 at 13:40 UT peak time producing a X2.3-Class solar flare and a radio blackout of category R3.
No obviously Earth directed CMEs were observed in available LASCO imagery on November 02-03.
An equatorial coronal hole (CH1252) was Earth facing on October 31 - November 01.
An equatorial coronal hole (CH1253) rotated acrosss the central meridian on November 04-05.
---CME arrival forecast
A partial halo CME was observed on November 04 at 01:36 UT. The CME is associated with an M3.8 flare from AR3883. This CME was expected to reach Earth between on November 05 at 23:47 UT and on November 06 at 15:13 UT.

**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 462 Km/s on November 06 at 14:00 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 -5 nT on November 07 at 08:10 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=2.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to active levels on November 07-09 due to the effect of CME and coronal hole high speed stream.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 07.11.2024 | 15 | Quiet to Active |
| 08.11.2024 | 10 | Quiet to Active |
| 09.11.2024 | 12 | Quiet to Active |

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