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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 November 19 09:18UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 18.11.2024 at 23:00 UTC was 165 sfu.
The background X-Ray flux is at the class C2.2 level.
Nine M-class solar flares were produced on November 18 and the largest was the M3.7-class.
AR3901 erupted on November 18 at 12:53 UT peak time producing a M3.7-Class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on November 16-18.
A coronal hole (CH1255) at northern hemisphere was Earth facing on November 14-15.
A coronal hole (CH1256) at southern hemisphere rotated across the central meridian on November 18.
A coronal hole (CH1257) at southern hemisphere will become 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 469 Km/s on November 18 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 -8 nT on November 19 at 08:20 UT during the last 24 hours.
The geomagnetic field was at quiet 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 19 and at quiet levels on November 20-21.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 19.11.2024 | 08 | Quiet to Unsettled |
| 20.11.2024 | 05 | Quiet |
| 21.11.2024 | 05 | Quiet |

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