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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 November 28 08:37UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 27.11.2024 at 23:00 UTC was 225 sfu.
The background X-Ray flux is at the class C2.5 level.
AR3901 erupted on November 27 at 12:46 UT peak time producing a M1.0-Class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on November 26-27.
A coronal hole (CH1258) at northern hemisphere rotated across the central meridian on November 27.
---CME arrival forecast
A CME was observed on November 25 at 21:24 UT. This CME is expected to reach Earth on November 28 between at 00:42 UT and 12:54 UT according to EAM predictions.

**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 368 Km/s on November 28 at 05:40 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 -6 nT on November 27 at 05:40 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=1.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to minor storm (G1) levels on November 28-29 due to the effects of CME observed on November 25 and at quiet to unsettled levels on November 30.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 28.11.2024 | 20 | Quiet to Minor storm (G1) |
| 29.11.2024 | 20 | Quiet to Minor storm (G1) |
| 30.11.2024 | 08 | Quiet to Unsettled |

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