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Product: Daily Forecast of Geomagnetic Activity  
Issued: 2024 December 06 08:58UTC  
Prepared by the Athens Space Weather Forecasting Center  
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**I. Solar activity**  
*--Current Status*  
Solar Flux (10.7cm) measured on 05.12.2024 at 23:00 UTC was 175 sfu.  
The background X-Ray flux is at the class C2.1 level.  
Three M-class flares were produced on December 05 and the largest was the M2.5.  
AR3906 erupted on December 05 at 10:40 UT peak time producing a M2.5-Class solar flare and a radio blackout of category R1.  
No obviously Earth directed CMEs were observed in available LASCO imagery on December 02-04.  
A coronal hole (CH1259) at northern hemisphere will rotate into an Earth facing position on December 06-07.  
  
**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 435 Km/s on December 05 at 22:55 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 December 06 at 02:35 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 unsettled levels with Kp=3.  
  
**IV. 3-day Geomagnetic Activity Forecast**  
The geomagnetic field is expected to be at quiet to unsettled levels on December 06-08.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 06.12.2024 | 08 | Quiet to Unsettled |
| 07.12.2024 | 08 | Quiet to Unsettled |
| 08.12.2024 | 08 | Quiet to Unsettled |

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