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Product: Daily Forecast of Geomagnetic Activity  
Issued: 2024 November 22 10:19UTC  
Prepared by the Athens Space Weather Forecasting Center  
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**I. Solar activity**  
*--Current Status*  
Solar Flux (10.7cm) measured on 21.11.2024 at 23:00 UTC was 166 sfu.  
The background X-Ray flux is at the class C2.2 level.  
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 427 Km/s on November 22 at 01:45 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 21 at 22:45 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=1.  
  
**IV. 3-day Geomagnetic Activity Forecast**  
The geomagnetic field is expected to be at quiet to unsettled levels on November 22-24.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 22.11.2024 | 08 | Quiet to Unsettled |
| 23.11.2024 | 08 | Quiet to Unsettled |
| 24.11.2024 | 07 | Quiet to Unsettled |

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