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Product: Daily Forecast of Geomagnetic Activity  
Issued: 2024 December 22 08:39UTC  
Prepared by the Athens Space Weather Forecasting Center  
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**I. Solar activity**  
*--Current Status*  
Solar Flux (10.7cm) measured on 21.12.2024 at 23:00 UTC was 195 sfu.  
The background X-Ray flux is at the class C2.7 level.  
No obviously Earth directed CMEs were observed in available LASCO imagery on December 18-20.  
A coronal hole (CH1263) at southern hemisphere rotated across the central meridian on December 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 638 Km/s on December 22 at 03:20 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 -7 nT on December 21 at 20:55 UT during the last 24 hours.  
The geomagnetic field was at quiet to active 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 December 22-24.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 22.12.2024 | 08 | Quiet to Unsettled |
| 23.12.2024 | 10 | Quiet to Unsettled |
| 24.12.2024 | 08 | Quiet to Unsettled |

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