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Product: Daily Forecast of Geomagnetic Activity  
Issued: 2024 May 19 05:28UTC  
Prepared by the Athens Space Weather Forecasting Center  
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**I. Solar activity**  
*--Current Status*  
Solar Flux (10.7cm) measured on 18.05.2024 at 23:00 UTC was 194 sfu.  
The background X-Ray flux is at the class C2.0 level.  
---CME arrival forecast  
A CME was observed on May 17 at 21:05 UT and associated with a M7.2 solar flare of AR3685. This CME could reach Earth between on May 19 at 21:24 UT and on May 20 at 12:12 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 449 Km/s on May 18 at 16:00 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 May 18 at 08:20 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 quiet levels with Kp=1.  
  
**IV. 3-day Geomagnetic Activity Forecast**  
The geomagnetic field is expected to be at quiet to active levels on May 19-20 due to the effect of CME observed on May 17 and at quiet to unsettled levels on May 21.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 19.05.2024 | 12 | Quiet to Active |
| 20.05.2024 | 15 | Quiet to Active |
| 21.05.2024 | 10 | Quiet to Unsettled |

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