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Product: Daily Forecast of Geomagnetic Activity  
Issued: 2024 April 14 07:40UTC  
Prepared by the Athens Space Weather Forecasting Center  
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**I. Solar activity**  
*--Current Status*  
Solar Flux (10.7cm) measured on 13.04.2024 at 23:00 UTC was 161 sfu.  
The background X-Ray flux is at the class A0.0 level.  
AR3637 erupted on April 13 at 05:02 UT peak time producing a M2.4 class solarflare and a short radioblackout of category R1.  
No obviously Earth directed CMEs were observed in available LASCO imagery on April 08-10.  
A coronal hole (CH1213) at southern hemisphere rotated across the central meridian on April 09-10.  
---CME arrival forecast  
A faint halo CME was observed on April 11 at 07:00 UT. This CME was expected to reach Earth on April 13 at 23:05 UT according to EAM predictions.  
Another faint halo CME was observed on April 12 at 02:00 UT. This CME could reach Earth on April 14 at 23:54 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 438 Km/s on April 13 at 15:05 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 -4 nT on April 13 at 21:30 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 active levels with a chance of minor storm (G1) levels on April 14-15 due to weak effects of CMEs and at quiet to unsettled levels on April 16.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 14.04.2024 | 15 | Quiet to Active |
| 15.04.2024 | 12 | Quiet to Active |
| 16.04.2024 | 08 | Quiet to Unsettled |

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