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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 April 12 07:00UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 11.04.2024 at 23:00 UTC was 144 sfu.
The background X-Ray flux is at the class C1.7 level.
A M5.5 class solar flare erupted on April 11 at 17:06 UT peak time producing a radioblackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on April 07-09.
A coronal hole (CH1213) at southern hemisphere rotated across the central meridian on April 09-10.

**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 485 Km/s on April 11 at 14:20 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 -4 nT on April 12 at 02:50 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 April 12-14.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 12.04.2024 | 06 | Quiet to Unsettled |
| 13.04.2024 | 08 | Quiet to Unsettled |
| 14.04.2024 | 08 | Quiet to Unsettled |

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