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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 April 17 15:16UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 16.04.2024 at 23:00 UTC was 199 sfu.
The background X-Ray flux is at the class C3.0level.
AR3637 erupted on April 16 at 18:02 UT peak time producing a M1.1 class solar flare 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 (CH1214) at southern hemisphere will likely rotate across the central meridian on April 17.
---CME arrival forecast
A faint halo CME was observed on April 15 at 06:48 UT. This CME is expected to reach Earth on April 18 between at 05:23 UT and at 07:05 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 468 Km/s on April 17 at 09:05 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 -11 nT on April 16 at 15:45 UT during the last 24 hours.
The geomagnetic field was at quiet to minor storm (G1) 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 April 17 and 19 and at quiet to minor storm (G1) levels on April 18 due to effects of CME.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 17.04.2024 | 12 | Quiet to Unsettled |
| 18.04.2024 | 18 | Quiet to Minor storm (G1) |
| 19.04.2024 | 10 | Quiet to Unsettled |

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