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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 April 19 04:01UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 18.04.2024 at 23:00 UTC was 227 sfu.
The background X-Ray flux is at the class C2.7 level.
Three M-class solar flares were produced on April 18 and the biggest was the M2.2.
AR3638 erupted on April 18 at 02:48 UT peak time producing a M2.2 class solar flare and a radioblackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on April 15-17.
A coronal hole (CH1214) at southern hemisphere rotated across the central meridian on April 17.

**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 423 Km/s on April 18 at 15:35 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 -3 nT on April 18 at 20:45 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=2.

**IV. 3-day Geomagnetic Activity Forecast**
The geomagnetic field is expected to be at quiet to unsettled levels on April 19-21.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 19.04.2024 | 06 | Quiet to Unsettled |
| 20.04.2024 | 10 | Quiet to Unsettled |
| 21.04.2024 | 10 | Quiet to Unsettled |

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