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Product: Daily Forecast of Geomagnetic Activity
Issued: 2024 April 25 03:51UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 24.04.2024 at 23:00 UTC was 199 sfu.
The background X-Ray flux is at the class C8.9 level.
Four M-class solar flares were produced on April 24 and the biggest was the M2.0.
AR3637 erupted on April 24 at 22:59 UT peak time producing a M2.0 class solar flare and a radioblackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on April 22-23.
An equatorial coronal hole (CH1215) was Earth facing on April 22-23.

**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 457 Km/s on April 24 at 22:20 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 2 nT on April 24 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 unsettled levels with active periods on April 25-27 due to the effects of coronal hole high speed stream and several CMEs.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 25.04.2024 | 15 | Quiet to Active |
| 26.04.2024 | 15 | Quiet to Active |
| 27.04.2024 | 10 | Quiet to Active |

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