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Product: Daily Forecast of Geomagnetic Activity
Issued: 2025 March 20 05:01UTC
Prepared by the Athens Space Weather Forecasting Center
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**I. Solar activity**
*--Current Status*
Solar Flux (10.7cm) measured on 19.03.2025 at 23:00 UTC was 180 sfu.
The background X-Ray flux is at the class A0.0 level.
AR4031 erupted on March 19 at 20:40 UT peak time producing a M1.5-class solar flare and a radio blackout of category R1.
No obviously Earth directed CMEs were observed in available LASCO imagery on March 17-19.
A small equatorial coronal hole (CH1277) rotated across the central meridian on March 19.

**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 517 Km/s on March 19 at 19:10 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 -7 nT on March 19 at 18:50 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 active levels on March 20 and at quiet to unsettled levels on March 21-22.

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| **Date** | **Ap index forecast** | **Geomagnetic Activity level** |
| 20.03.2025 | 15 | Quiet to Active |
| 21.03.2025 | 10 | Quiet to Unsettled |
| 22.03.2025 | 10 | Quiet to Unsettled |

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Athens Space Weather Forecasting Center
Physics Department, National & Kapodistrian University of Athens
Athens Neutron Monitor Station A.NE.MO.S
Tel.: +30 210 727 6901
email: spaceweather@phys.uoa.gr
URL: http://spaceweather.phys.uoa.gr
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