

NOORDERLICHT

WAARNEMEN & VOORSPELLEN



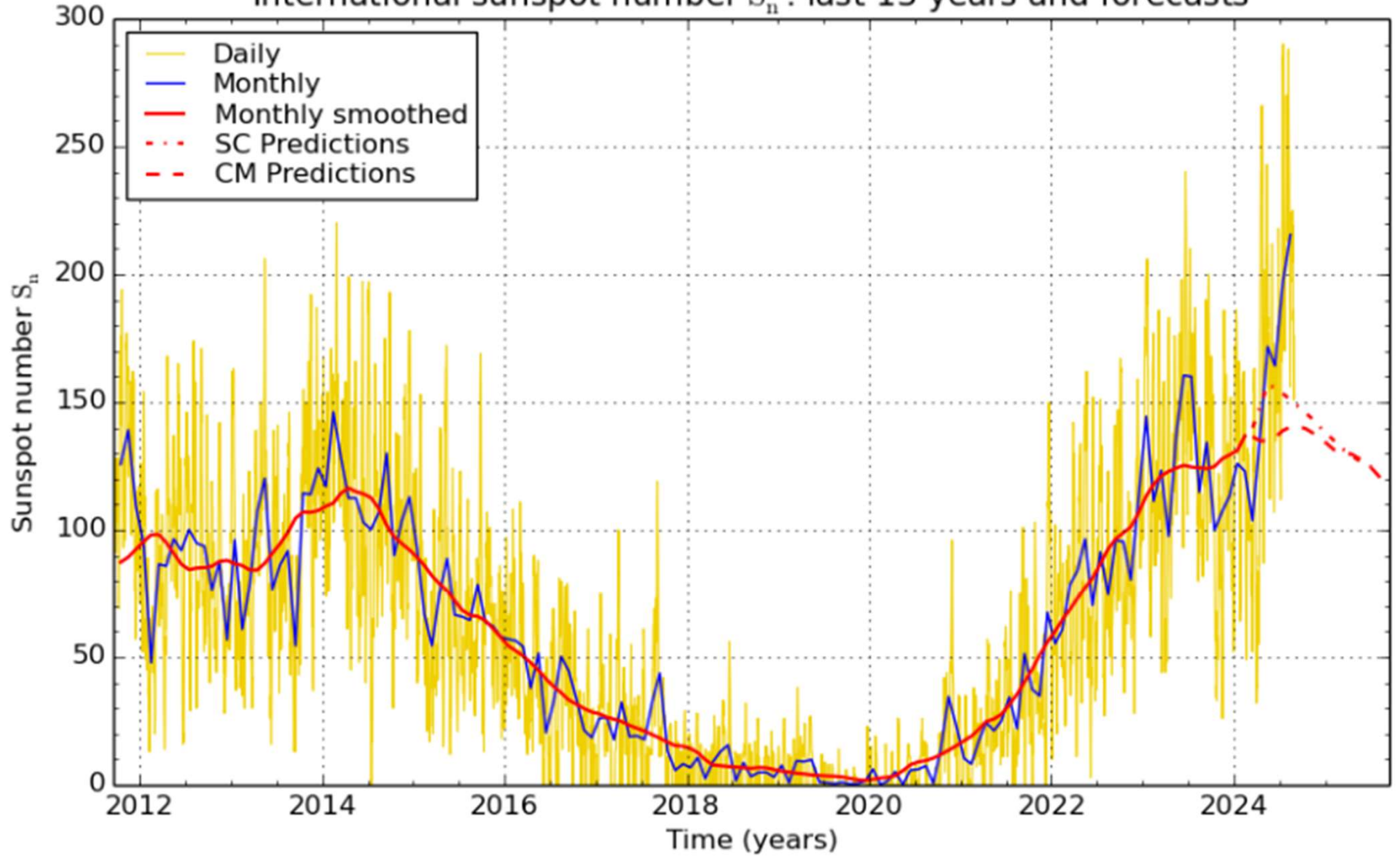
Hoe ontstaat het noorderlicht?



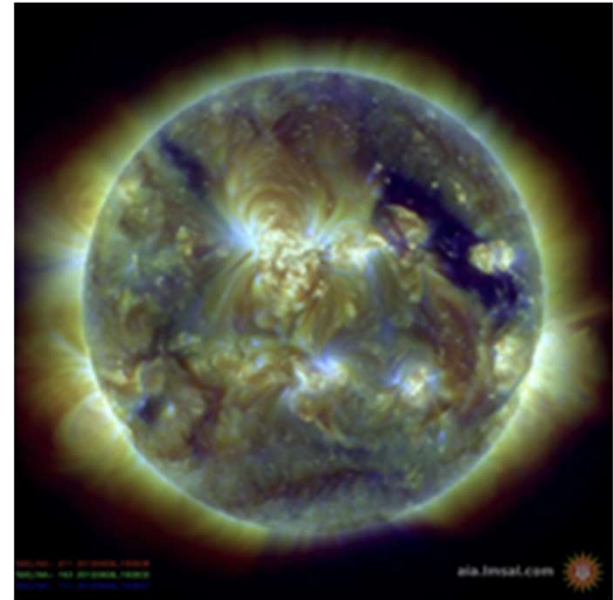
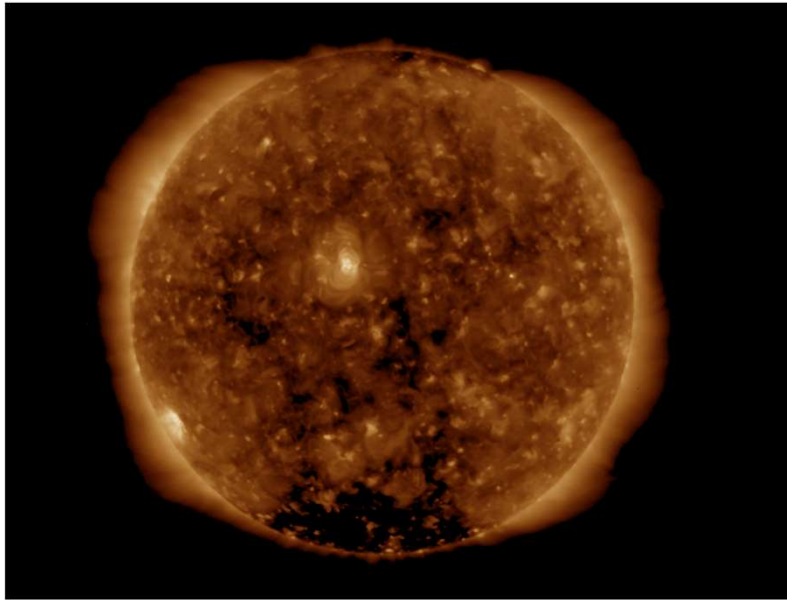
A night-time photograph of the Aurora Borealis (Northern Lights) over a snowy landscape. The sky is dark with numerous stars, and the aurora displays vibrant green and purple light patterns. The foreground shows a dense line of dark evergreen trees silhouetted against the glowing sky.

NOORDERLICHT VOORSPELLEN

International sunspot number S_n : last 13 years and forecasts



Wat gebeurt er op de zon?



Noorderlicht voorspellen – langere termijn

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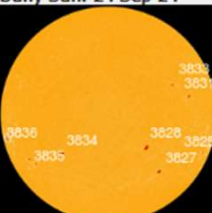
AURORA ALERTS
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Current Conditions

Solar wind
 speed: 407.3 km/sec
 density: 7.42 protons/cm³
 more data: [ACE](#), [DSCOVR](#)
 Updated: Today at 0616 UT

X-ray Solar Flares
 6-hr max: C2 1220 UT Sep24
 24-hr: C6 1146 UT Sep24
[explanation](#) | [more data](#)
 Updated: Today at: 1820 UT

Daily Sun: 24 Sep 24



Expand: [labels](#) | [no labels](#) | [Carrington](#)

Emerging sunspot AR3836 looks interesting. It is relatively large and morphologically complex, two signs of a potentially explosive active region.
 Credit: SDO/HMI

Sunspot number: 224
[What is the sunspot number?](#)
 Updated 24 Sep 2024


Spotless Days
 Current Stretch: 0 days
 2024 total: 0 days (0%)
 2023 total: 0 days (0%)
 2022 total: 1 day (<1%)
 2021 total: 64 days (18%)
 2020 total: 208 days (57%)
 2019 total: 281 days (77%)
 2018 total: 221 days (61%)
 2017 total: 104 days (28%)
 2016 total: 32 days (9%)
 2015 total: 0 days (0%)
 2014 total: 1 day (<1%)
 2013 total: 0 days (0%)
 2012 total: 0 days (0%)
 2011 total: 2 days (<1%)
 2010 total: 51 days (14%)
 2009 total: 260 days (71%)
 2008 total: 268 days (73%)
 2007 total: 152 days (42%)
 2006 total: 70 days (19%)
 Updated 24 Sep 2024

Thermosphere Climate Index
 today: 33.26x10¹⁰ W **Hot**
 Max: 49.4x10¹⁰ W **Hot** (10/1957)

What's up in space

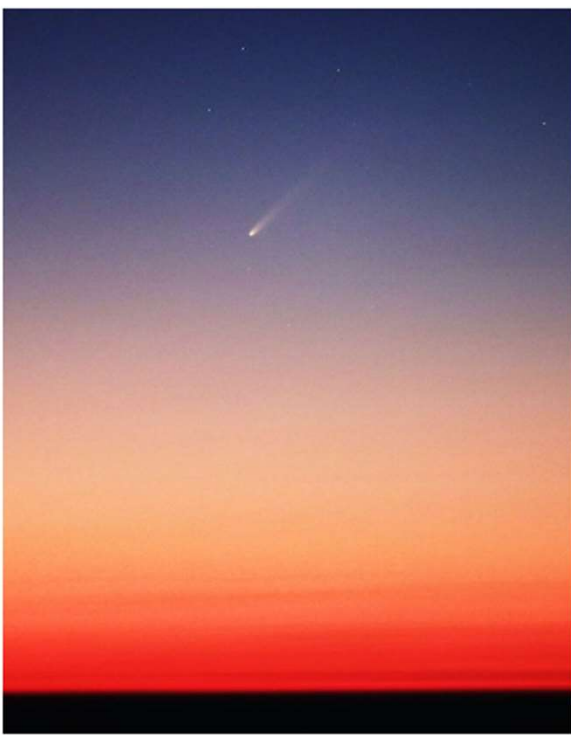
Tuesday, Sep. 24, 2024

This is an AI Free Zone! Text created by Large Language Models is spreading rapidly across the Internet. It's well-written, artificial, frequently inaccurate. If you find a mistake on Spaceweather.com, rest assured it was made by a real human being.



GEOMAGNETIC STORM WATCH (G1): A [lopsided halo CME](#) is expected to graze Earth's magnetic field on Sept. 25-26. The impact could cause a G1-class geomagnetic storm. NOAA's model predicts a strike on Sept. 25th; NASA's model predicts the 26th. The difference gives a sense of the uncertainty in this low-confidence forecast. Aurora alerts: [SMS Text](#)

BRIGHT MORNING COMET: The week has barely begun, and Comet Tsuchinshan-ATLAS ([C/2023 A3](#)) has already tripled in brightness. "The change of the comet compared to yesterday has been exponential," reports Frank A. Rodriguez, who saw the comet today just before sunrise over Gran Canaria island:



"This is a one-second exposure at ISO 1000," he says. "Despite the brightness of the dawn sky, I was able to see the comet using averted vision."

archives

September ▾
 24 ▾
 2024 ▾

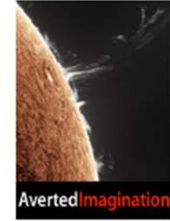
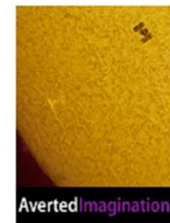
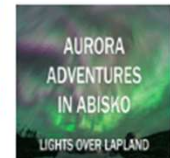
ARCTIC ORANGE Adventure
 AURORA CHASING EXPEDITIONS
 DIV. TOURS
 YUKON - CANADA
[www.arcticorange.com](#)

T CrB NOVA WATCH
 today: m=9.9 (Sep 24.2)
 yesterday: m=10.0
 more: [AAVSO data](#) | [sky map](#)

Explanation: When the nova explodes, the visual magnitude of the star (m) will jump from +10 (invisible to the naked eye) to +2 (about as bright as the North Star).

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[Sport Science Hub](#)

Noorderlicht voorspellen – middellange termijn



Noorderlichtman Ruben Weytjens

22K followers • 34 following

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Posts About Mentions Reels Photos Videos More

Intro

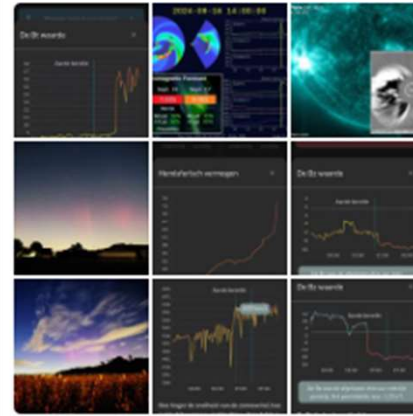
Noorderlichtman Ruben Weytjens ontwikkelt en deelt exclusieve belevissen in de arctische wereld.

Page · Community

[noorderlichtfotos.be](#)

Photos

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Posts

Filters



Noorderlichtman Ruben Weytjens
September 17 at 1:23 AM

Impact L1 00:45. Te zwak voor hier zo te zien.

Update: Door een combinatie van factoren (Negatieve Bz, vrij sterke Bt, vrij hoge snelheid) is er rond 4 uur fotografisch en zwak zichtbaar noorderlicht geweest op heldere, donkere locaties. Jammer van de timing, maar uiteindelijk was het dus niet meer dan "meer van hetzelfde van de voorbije weken".

De Bt waarde



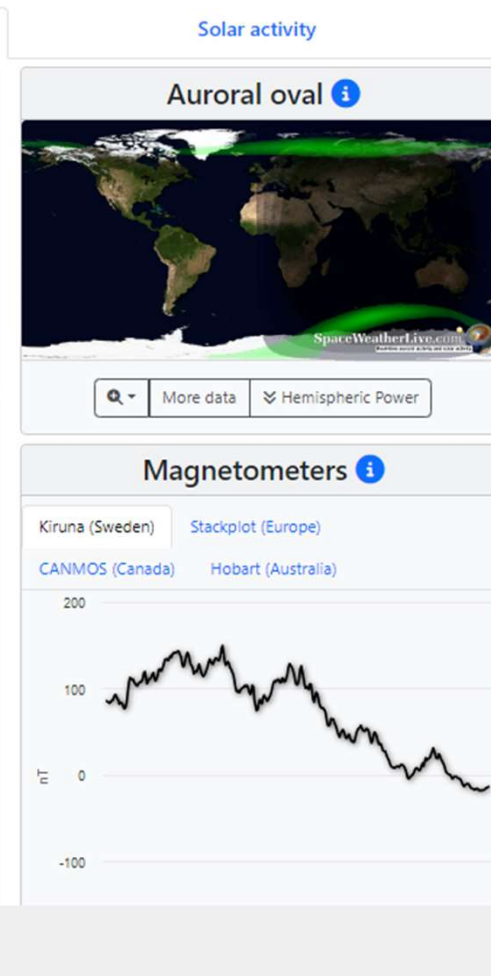
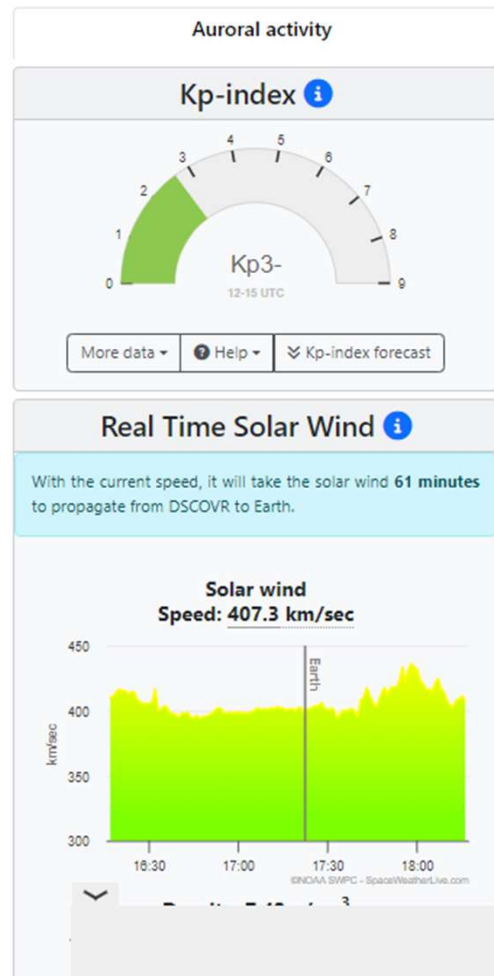
Bt is de totale kracht van het magnetische veld van de zonnewind. Net als Bz wordt het dus uitgedrukt in nT. Hoe hoger deze waarde,

Noorderlicht voorspellen – korte termijn



www.poollicht.be

www.spaceweatherlive.com



Current data suggests there is a slight possibility for aurora to appear at the following high latitude regions in the near future

- Rovaniemi, Sodankylä
- Kirkenes
- Murmansk, Norilsk, Vorkuta

Latest news

Thursday, 12 September 2024
G3 geomagnetic storm watch due to CME passage

More news

Latest forum messages

- AR 3836 10
- Unspecified geomagnetic activity 1464
- IP cameras for sky surveillance 1
- Question regarding a persistent northward bz 6
- Positive polarity coronal hole influence 16

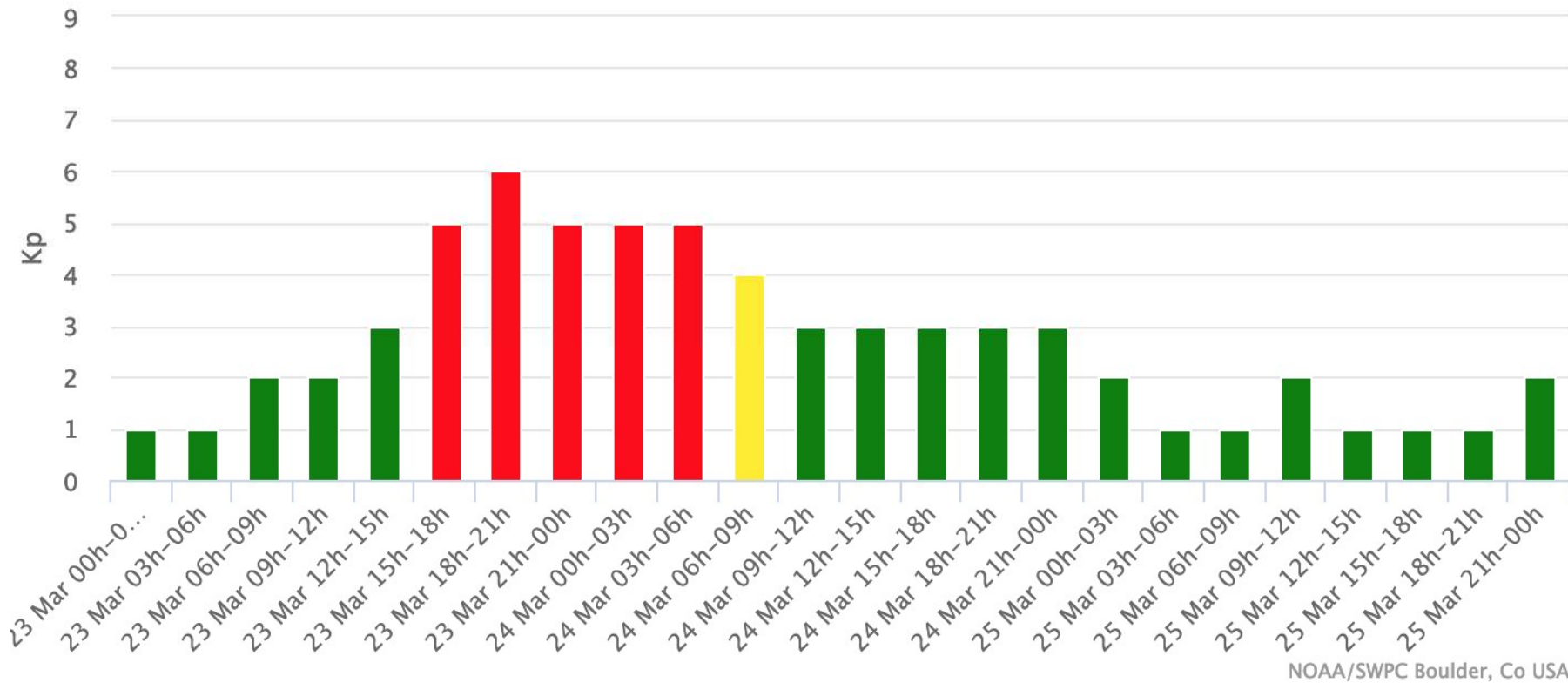
More topics

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A lot of people come to SpaceWeatherLive to follow the Sun's traffic enjoy

Vergeet de Kp

Predicted Kp-indices



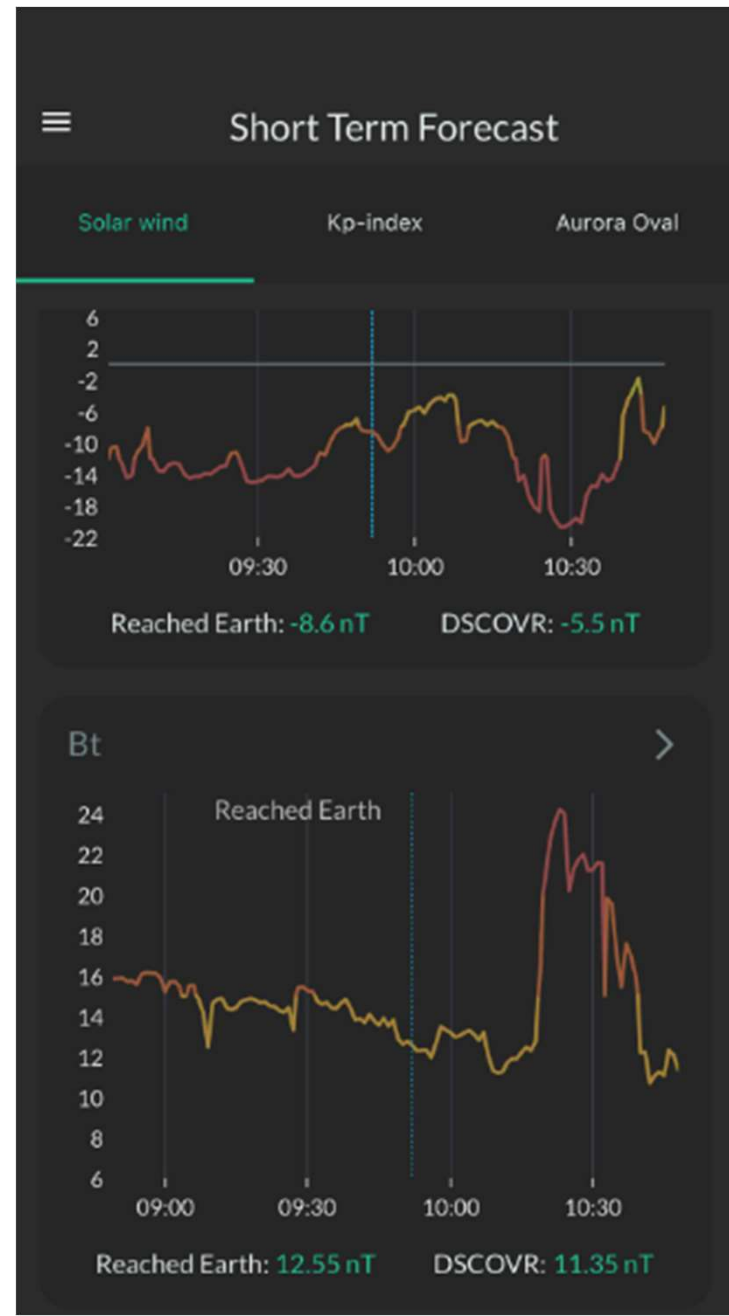
Predicted high latitude K-indices

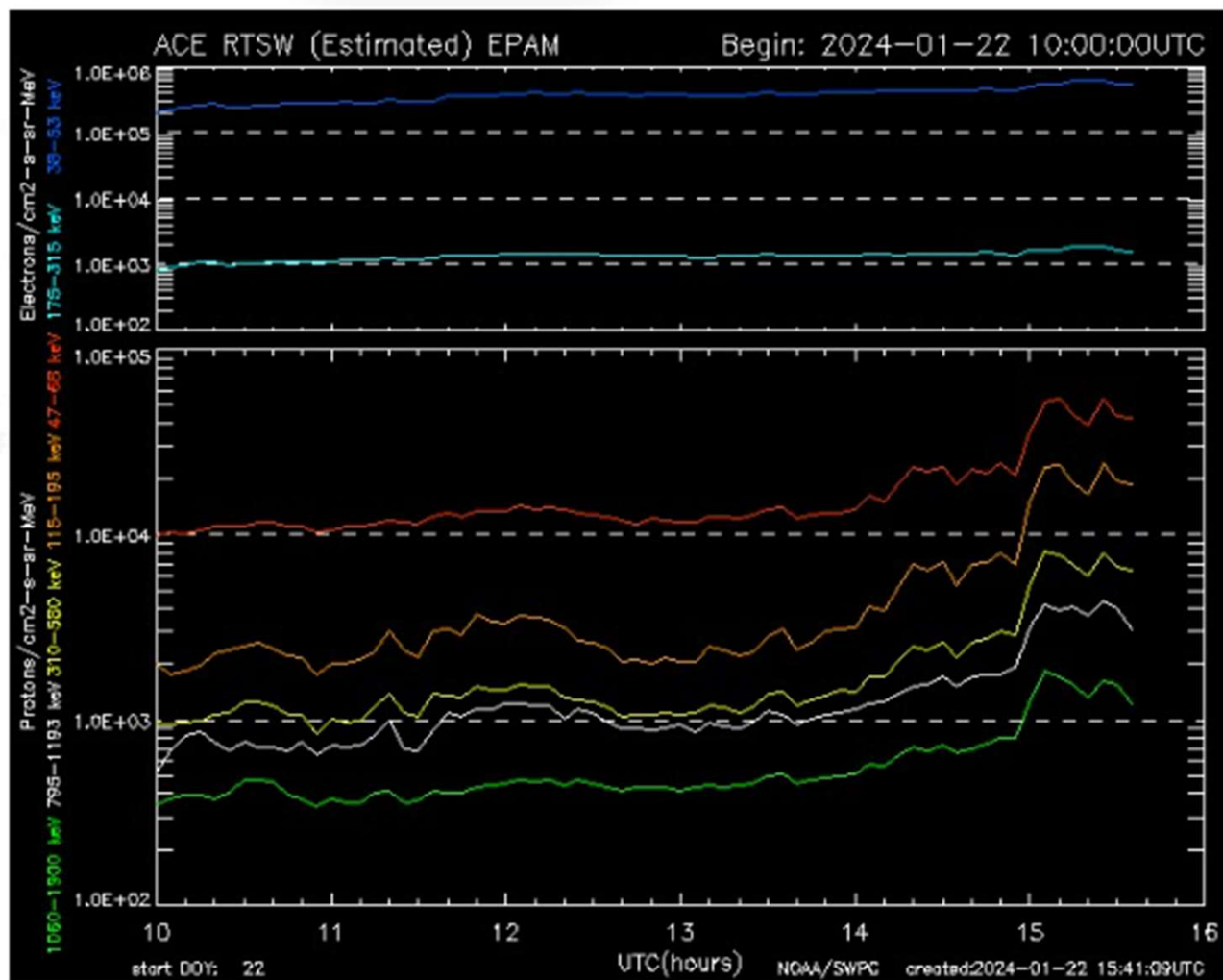
NOAA/SWPC Boulder, Co USA

Case 1: 12 augustus 2024



Foto: Rutger Bus (NL) – 12 augustus 2024





Case 2: 12 september 2024



Foto: Gijs de Reijke (NL) – 12 september 2024

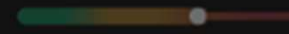
Het komende uur is er 99% kans om het noorderlicht te zien in Luosto, indien de hemel helder is.

De Bz waarde



Snelheid >

490 km/s



ongunstig gunstig

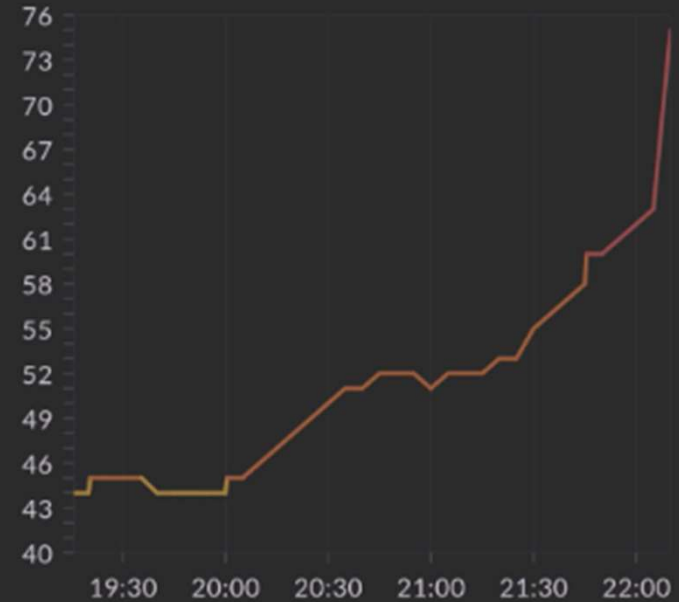
Dichtheid >

2.35 p/cm³



ongunstig gunstig

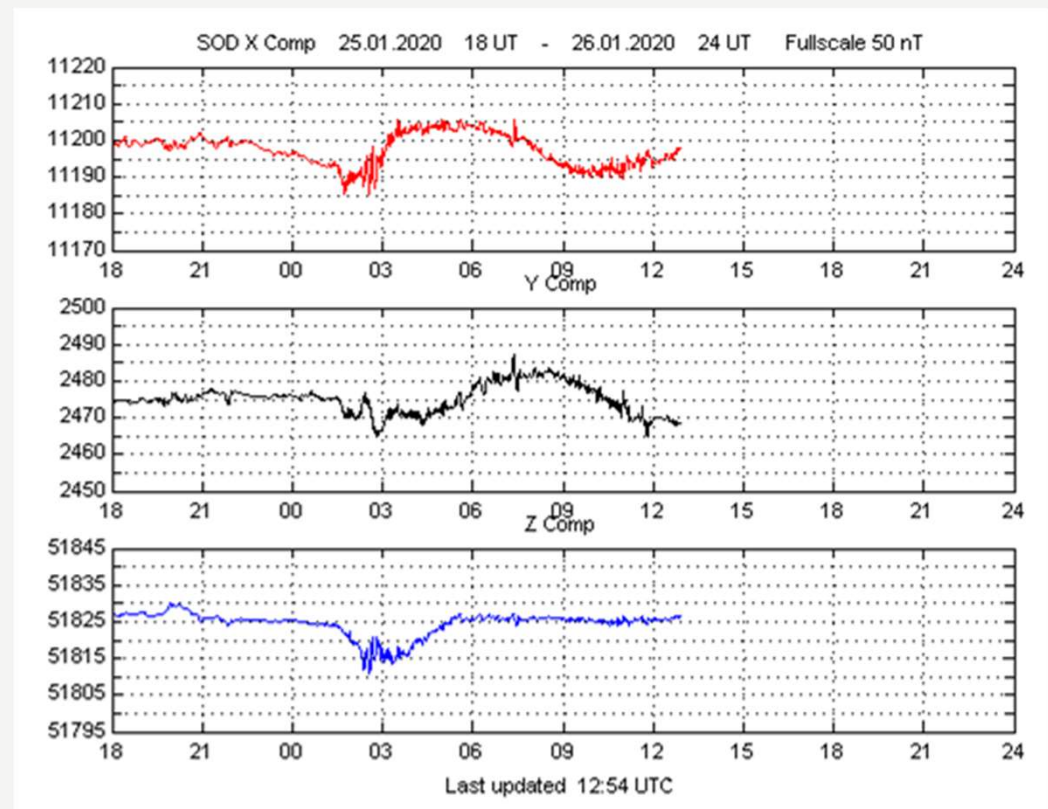
Hemisferisch vermogen



De HPI (Hemisphere Power Index) is een maat voor de kracht van geomagnetische activiteit, die gerelateerd is aan de kans op het zien van het noorderlicht.

Magnetometer

- Instrument dat wordt gebruikt om metingen te doen aan het magneetveld van de aarde.
- In het hoge noorden staat een kleine afwijking (50 nanoTesla) op deze instrumenten al garant voor noorderlicht.



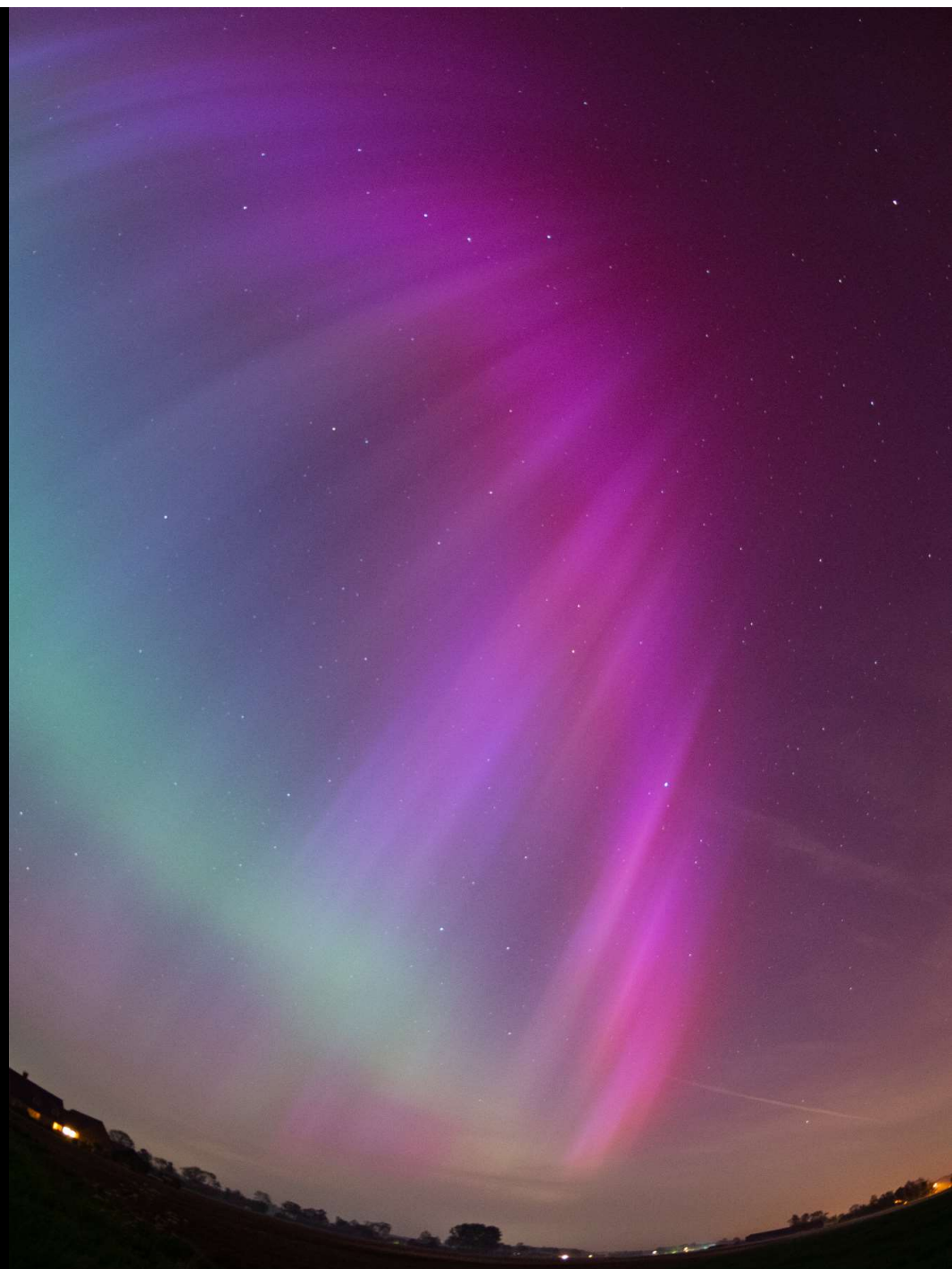
Case 3: 10 mei 2024





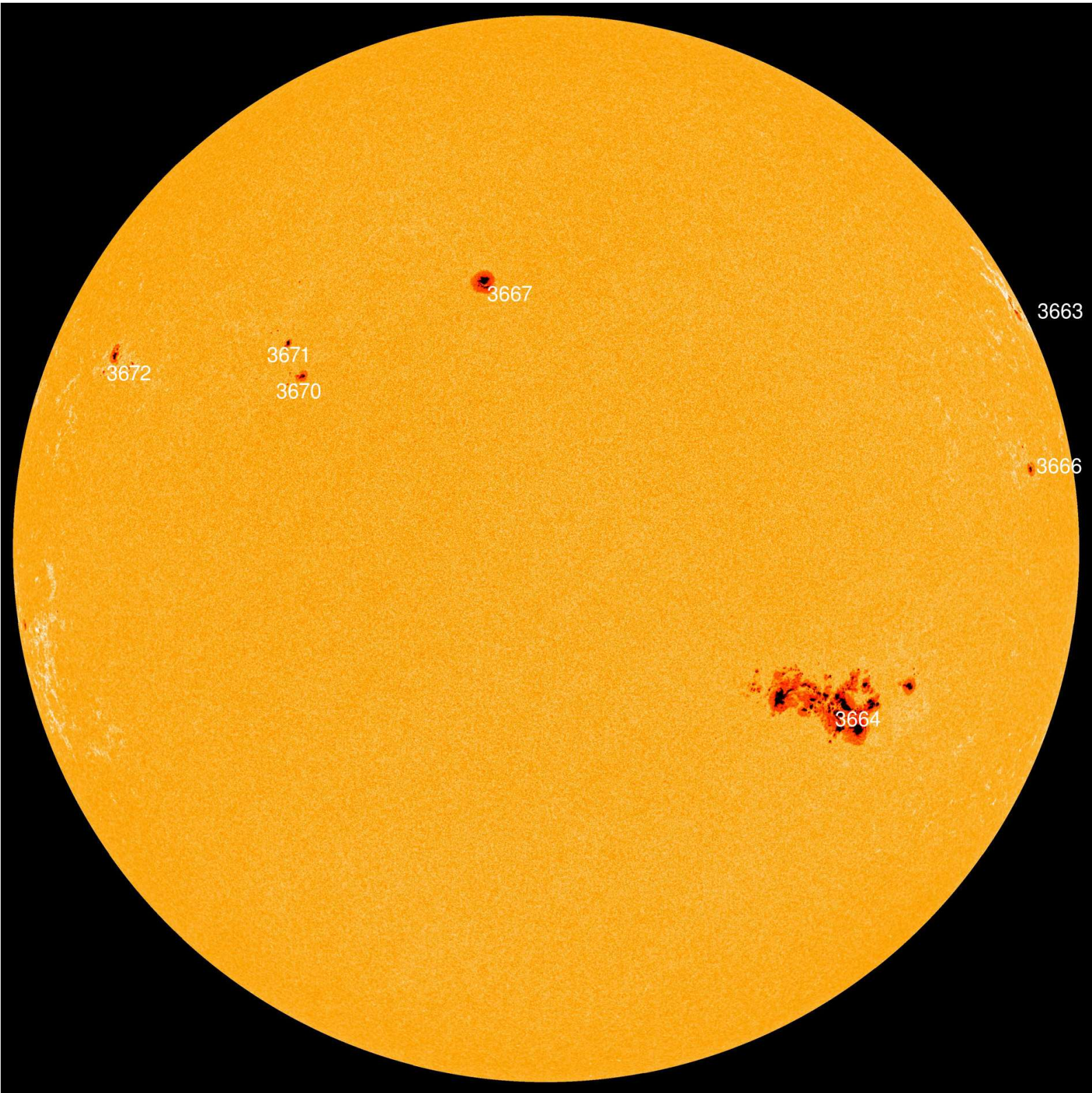












3667

3663

3672

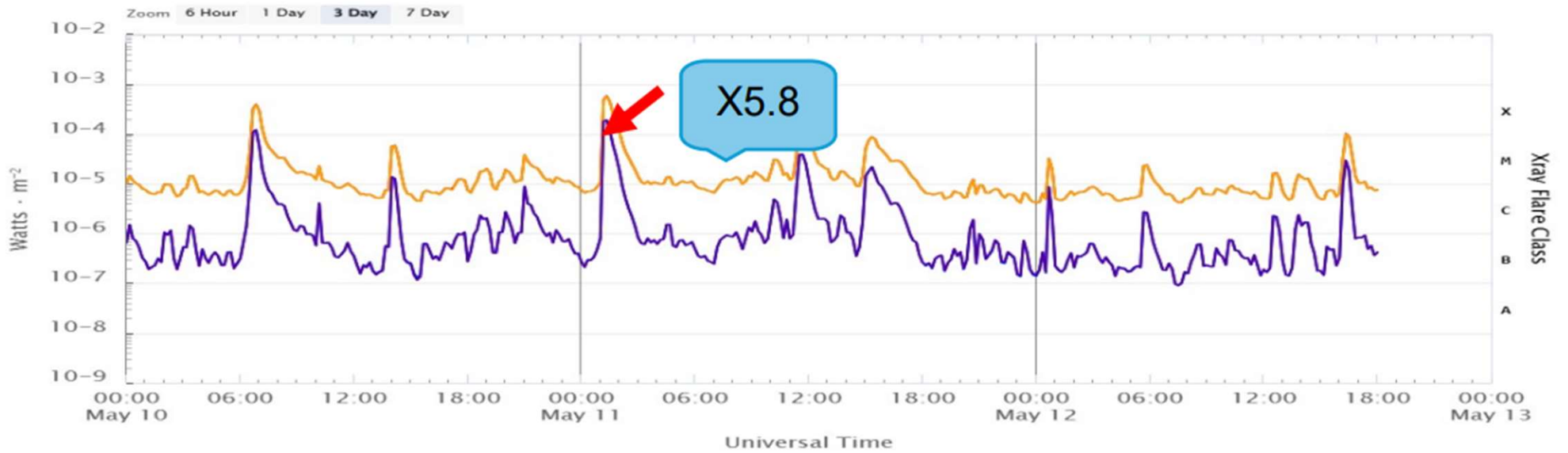
3671

3670

3666

3664

GOES X-Ray Flux (1-minute data)

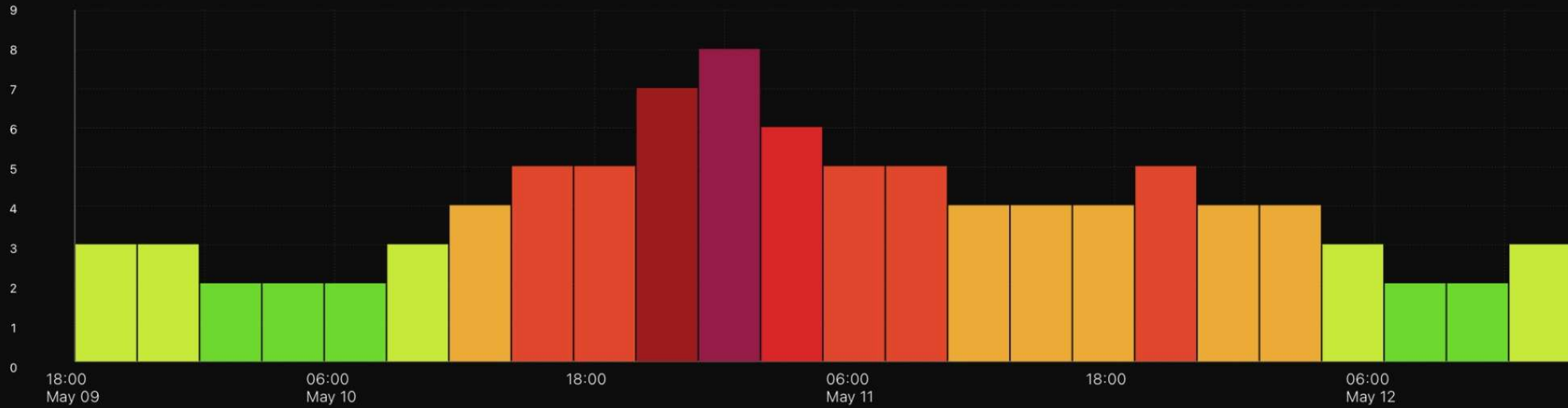


Updated 2024-05-12 18:01 UTC

Space Weather Prediction Center

Aurora Forecast

3-Day Forecast (Kp)





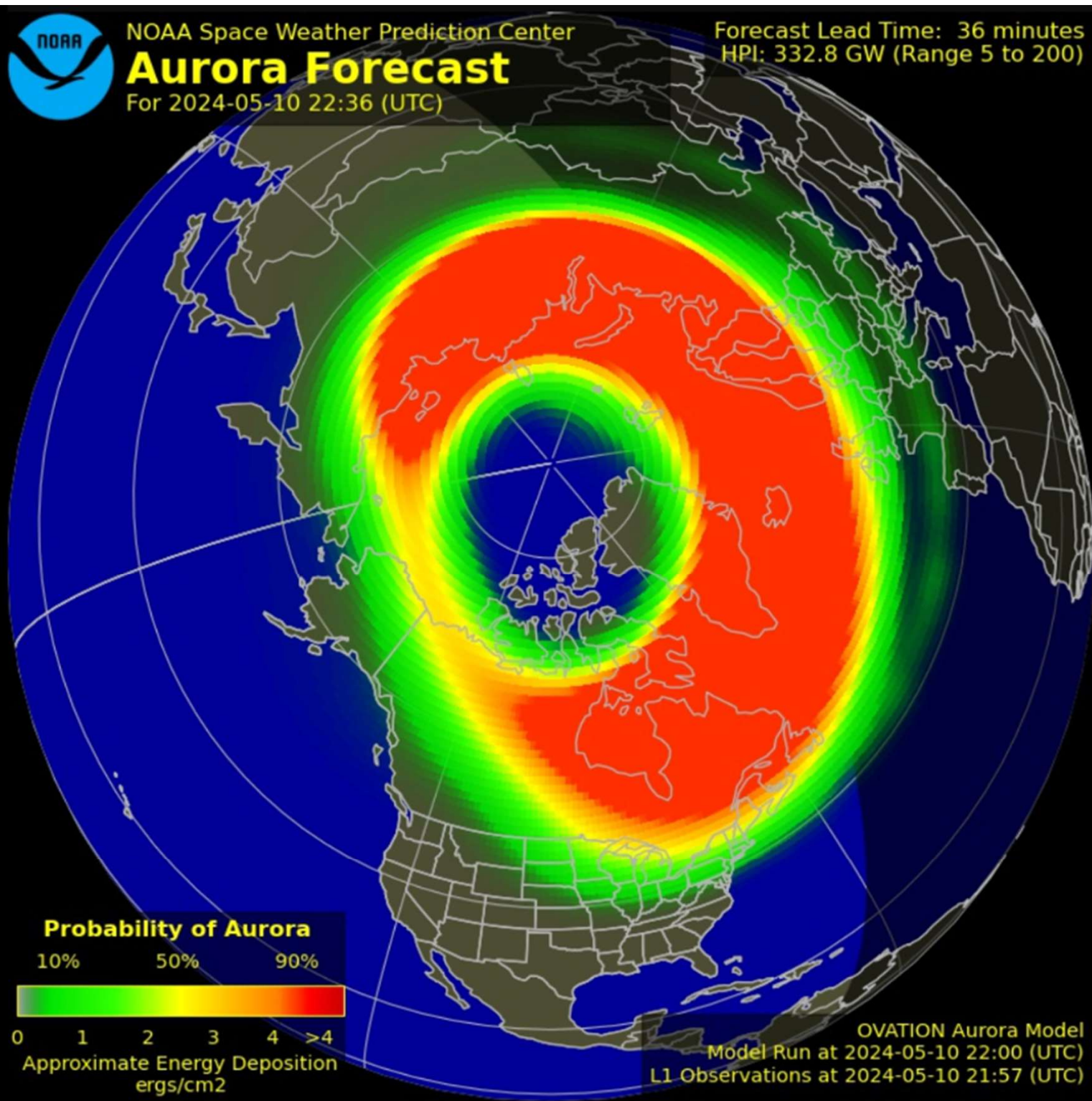
NOAA Space Weather Prediction Center

Aurora Forecast

For 2024-05-10 22:36 (UTC)

Forecast Lead Time: 36 minutes

HPI: 332.8 GW (Range 5 to 200)



Probability of Aurora

10% 50% 90%



0 1 2 3 4 >4
Approximate Energy Deposition
ergs/cm²

OVATION Aurora Model
Model Run at 2024-05-10 22:00 (UTC)
L1 Observations at 2024-05-10 21:57 (UTC)



Auroral activity

Solar activity

Kp-index



More data ▾

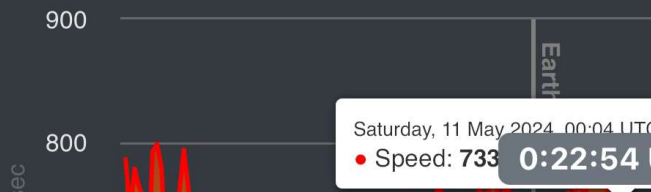
Help ▾

▾ Kp-index forecast

Real Time Solar Wind

With the current speed, it will take the solar wind **34 minutes** to propagate from DSCOVR to Earth.

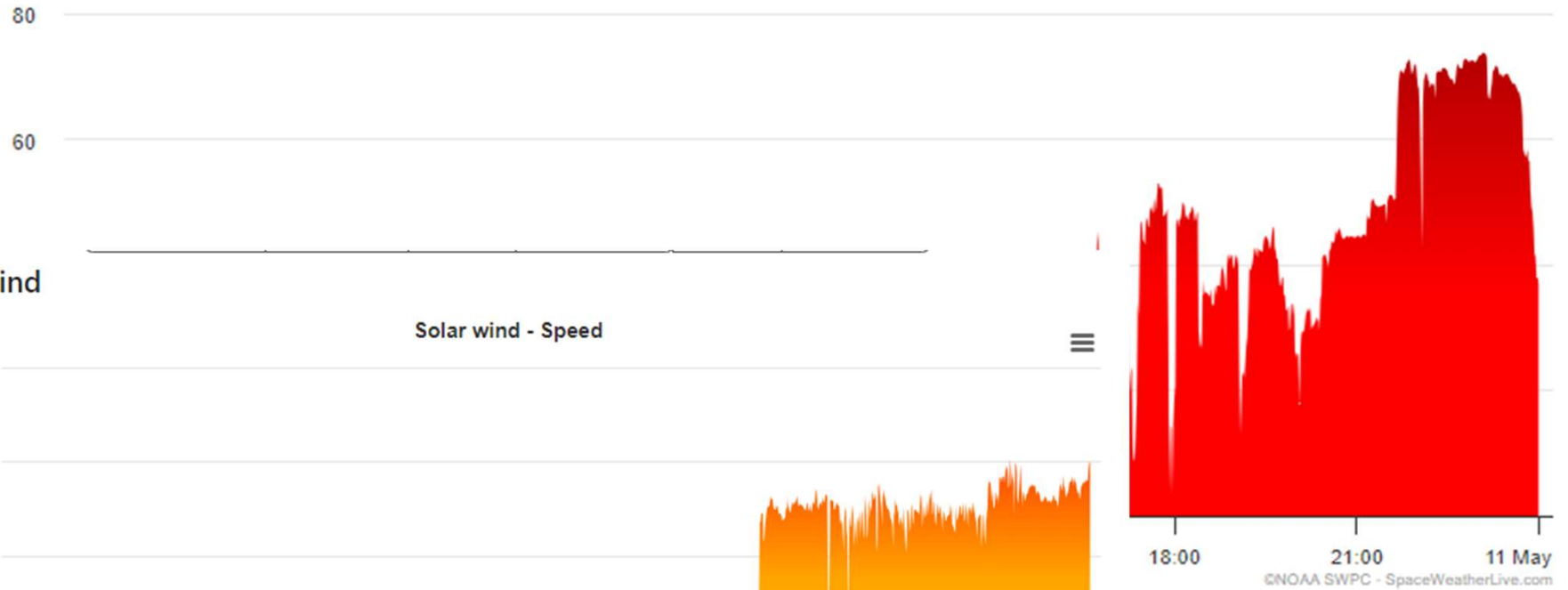
Solar wind
Speed: 758.7 km/sec



Saturday, 11 May 2024 00:04 UTC
• Speed: 733 0:22:54 UTC

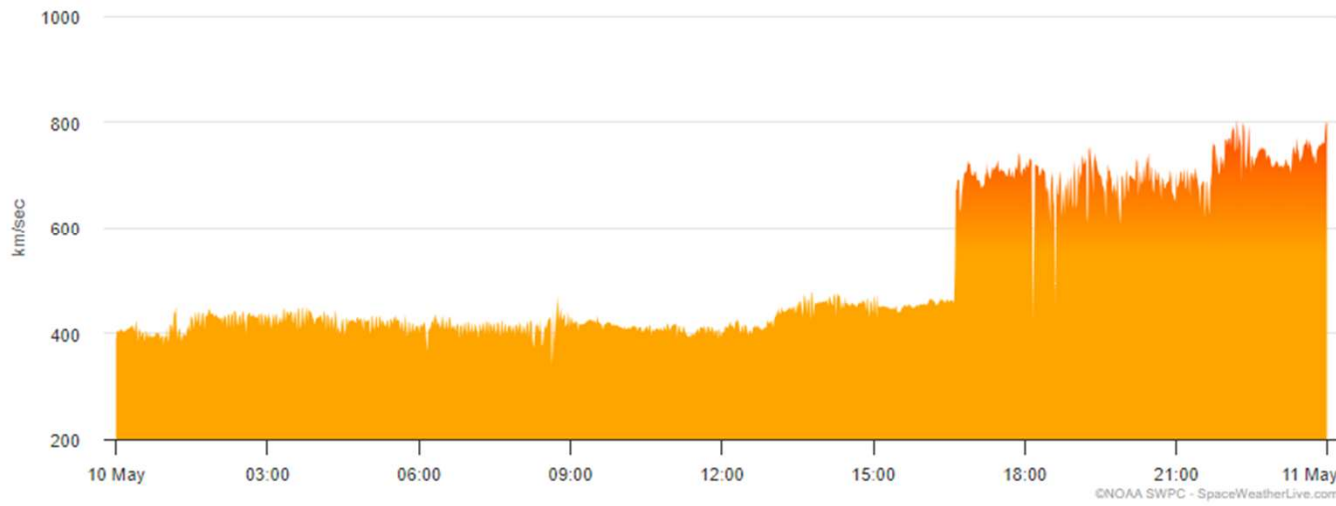
Interplanetary Magnetic Field (IMF)

Interplanetary Magnetic Field - Bt

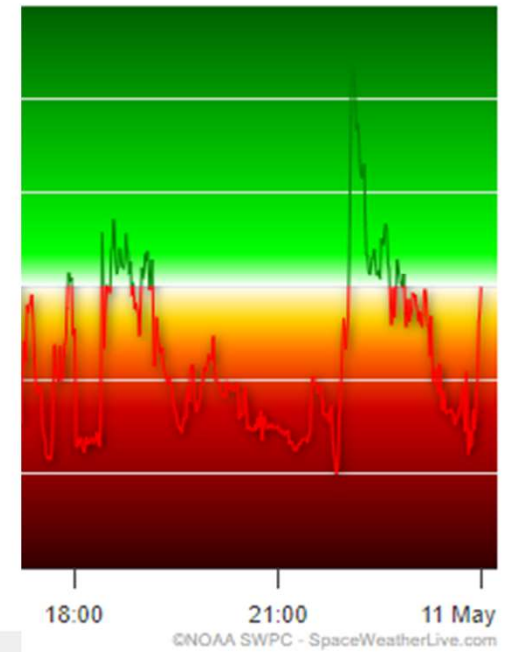
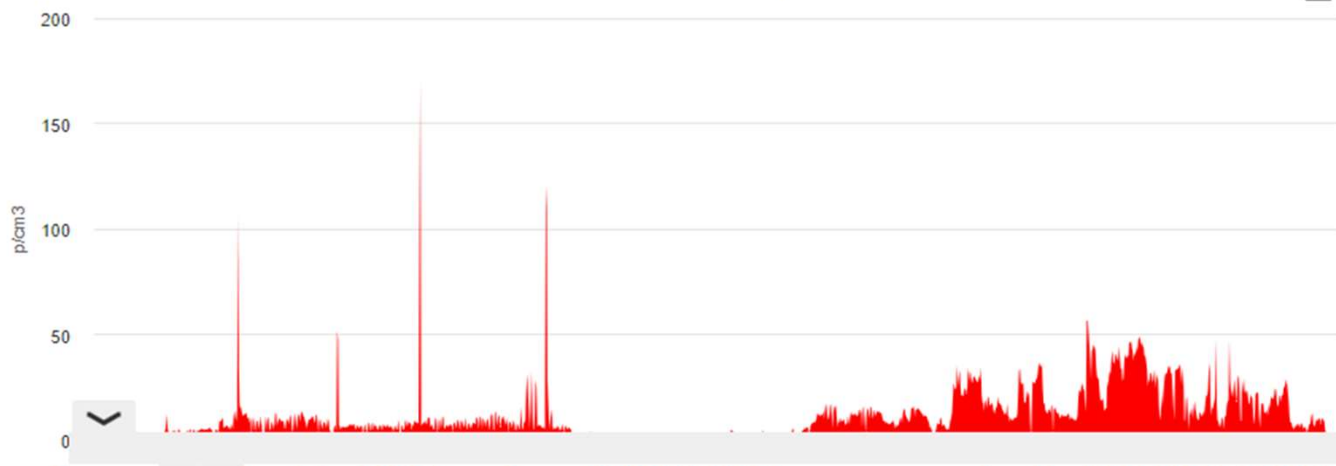


Solar wind

Solar wind - Speed



Solar wind - Density



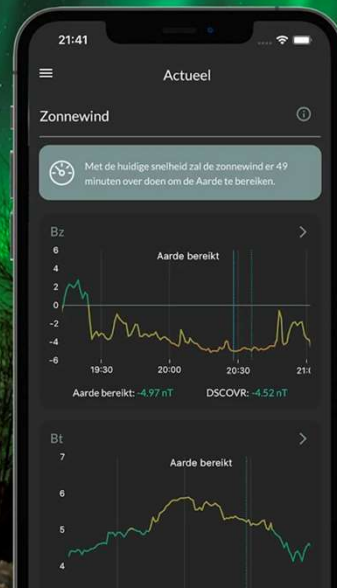
Noorderlicht app

Helpt te jagen op het noorderlicht

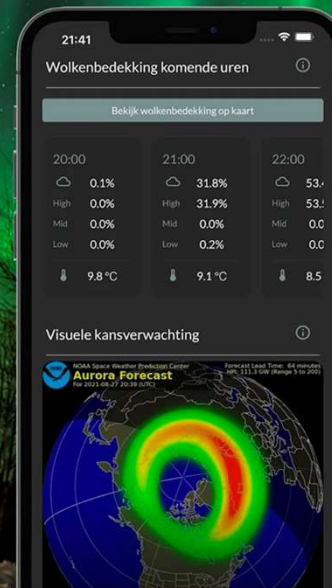
Monitor de realtime noorderlichtkans op uw Voigt Travel bestemming. Of wacht op het push bericht.



Lees alles over de zonnewind parameters. De zonnewind data wordt continue geüpdatet.



Volg realtime de kans-ontwikkeling van visueel noorderlicht.



Bekijk live noorderlicht via één van de noorderlicht webcams in het hoge Noorden.



Arcticans Aurora Forecast

- Kies zelf uit een locatie
- Alle waardes m.b.t. zonnewind
- Solar Disk afbeeldingen
- Webcams
- € 5,99.

