

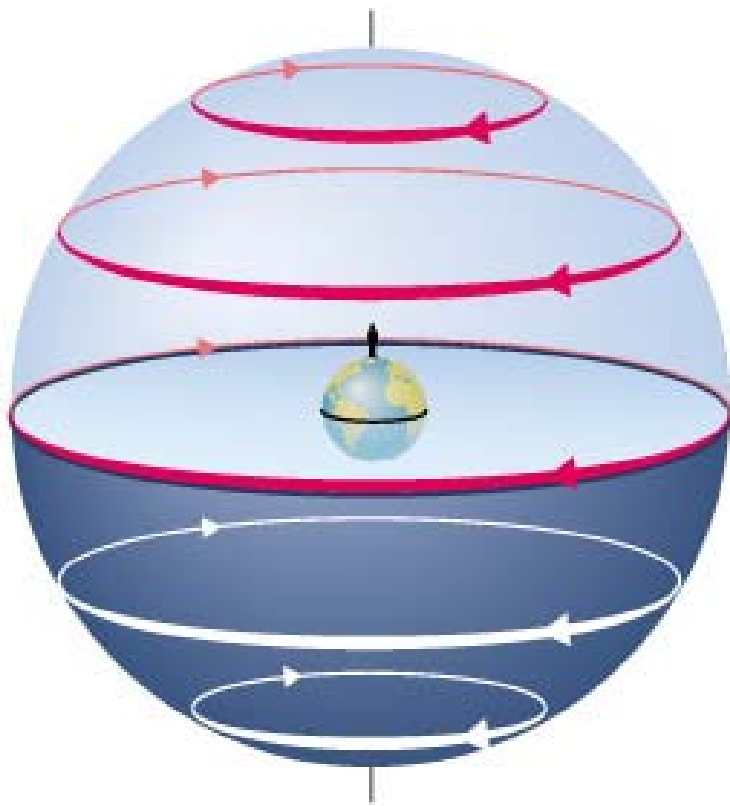
Nordlys og midnatssol

Hans Kjeldsen
Aarhus Universitet



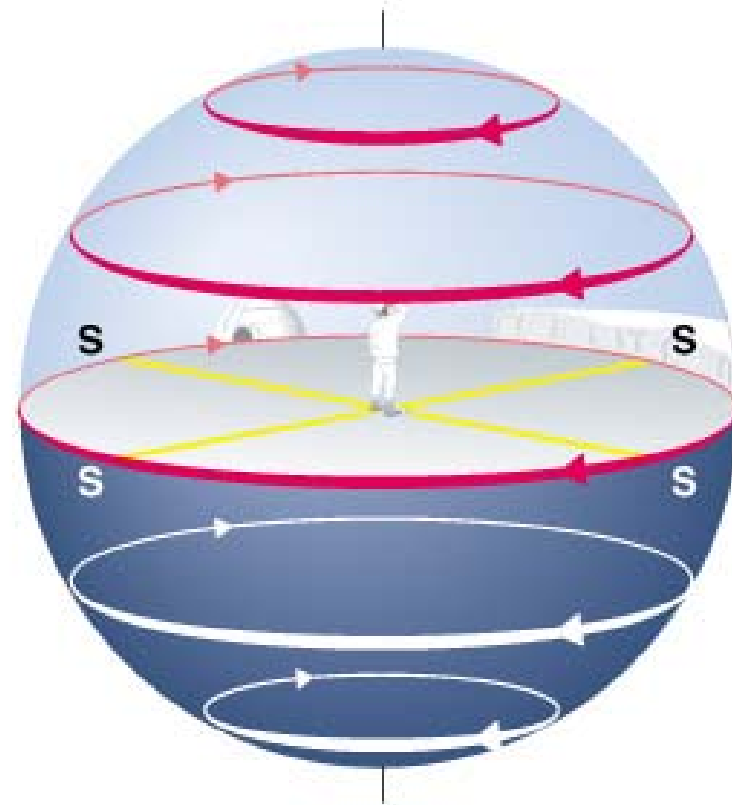
STELLAR ASTROPHYSICS CENTRE



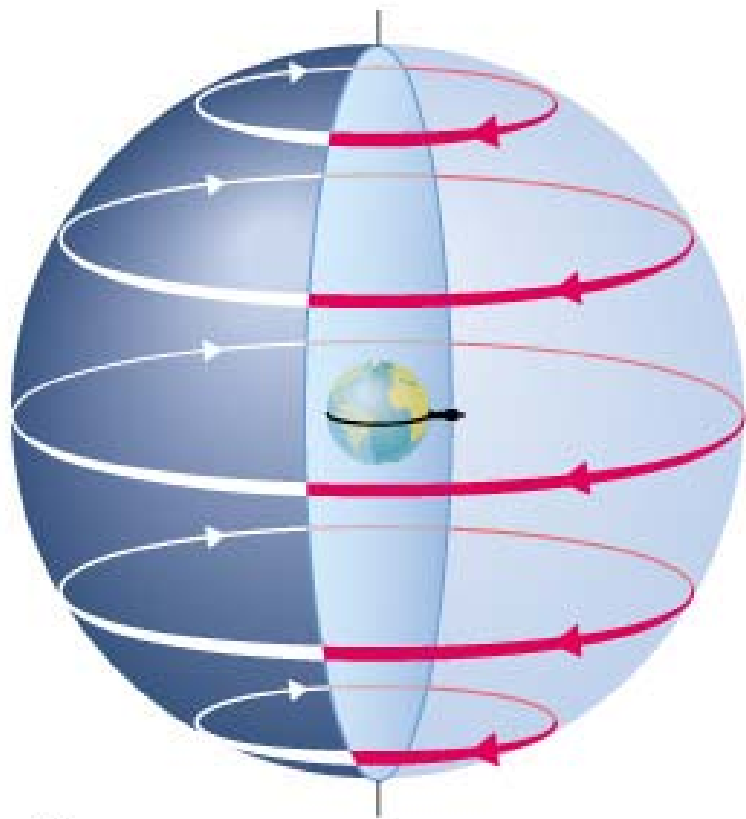


(a)

Copyright © Addison Wesley

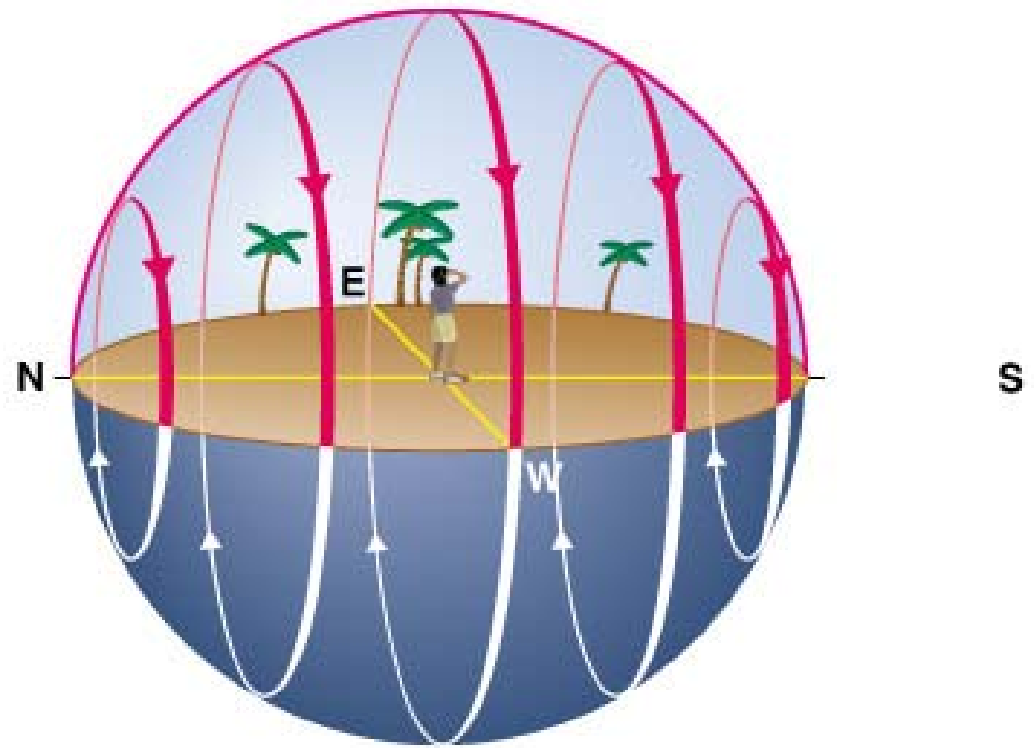


(b)

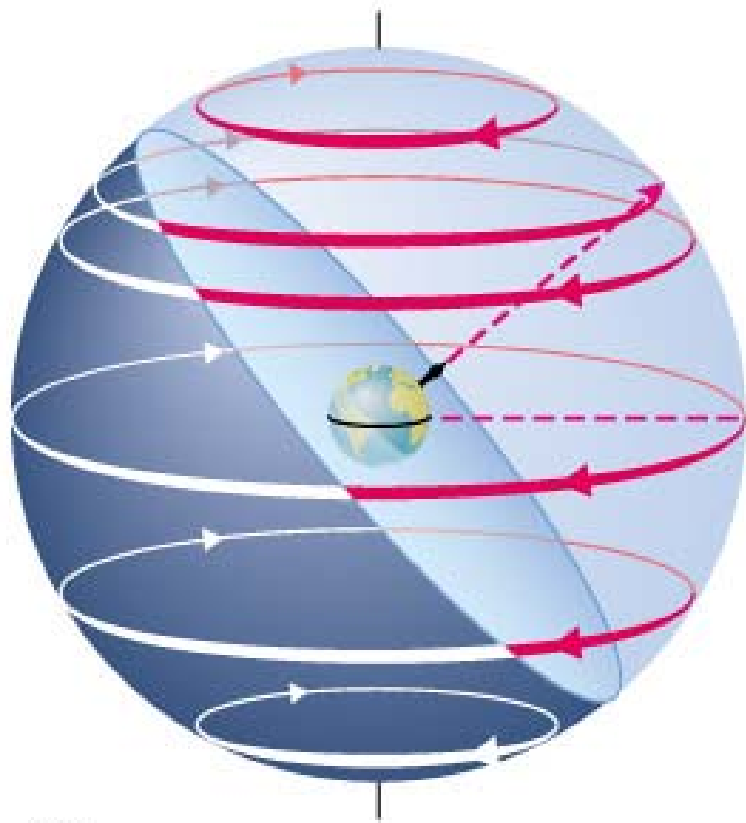


(a)

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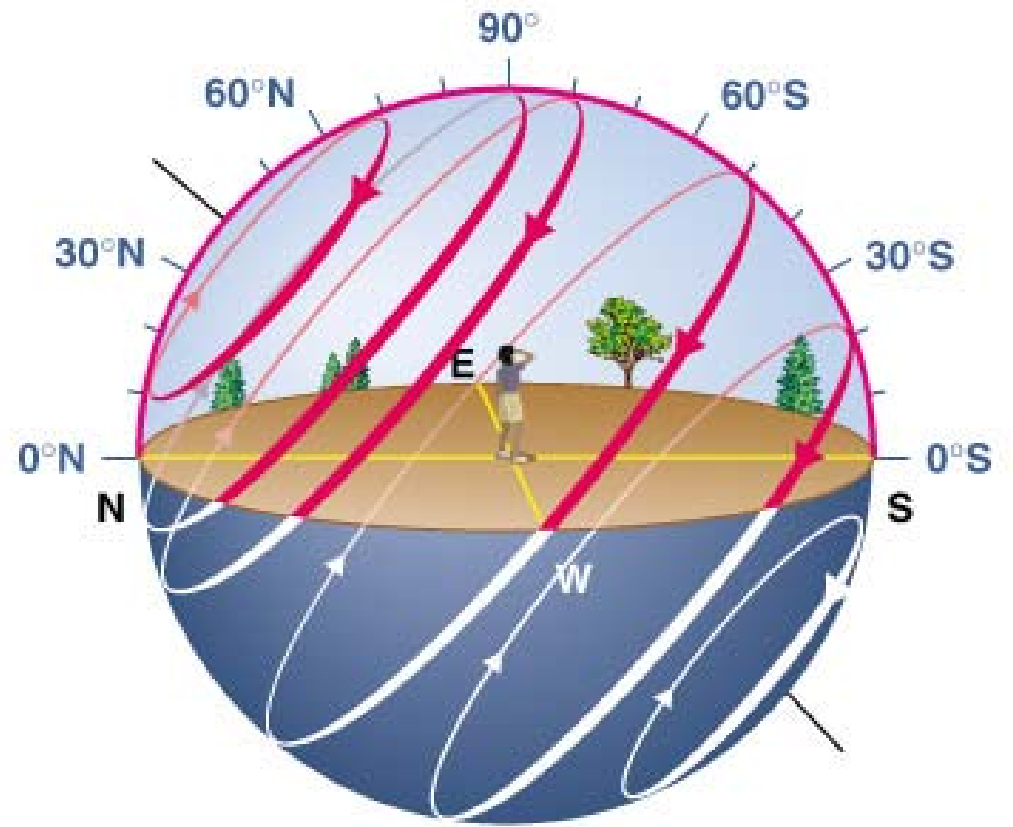


(b)



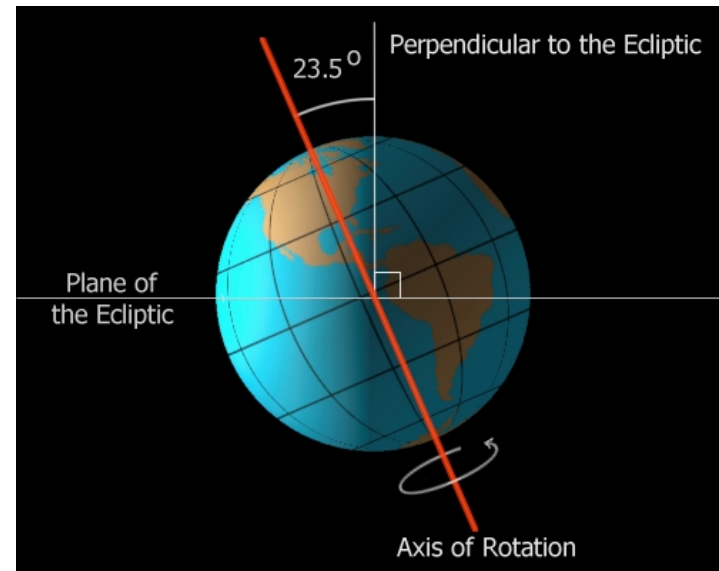
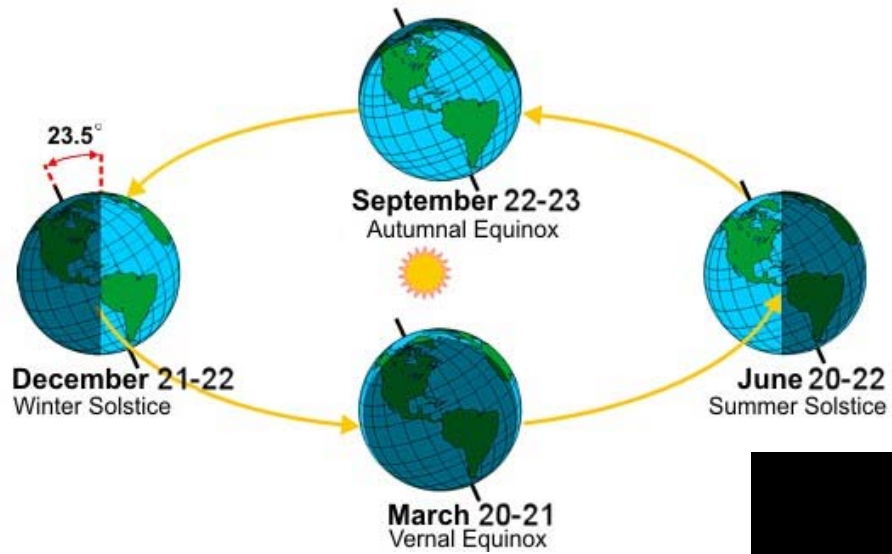
(a)

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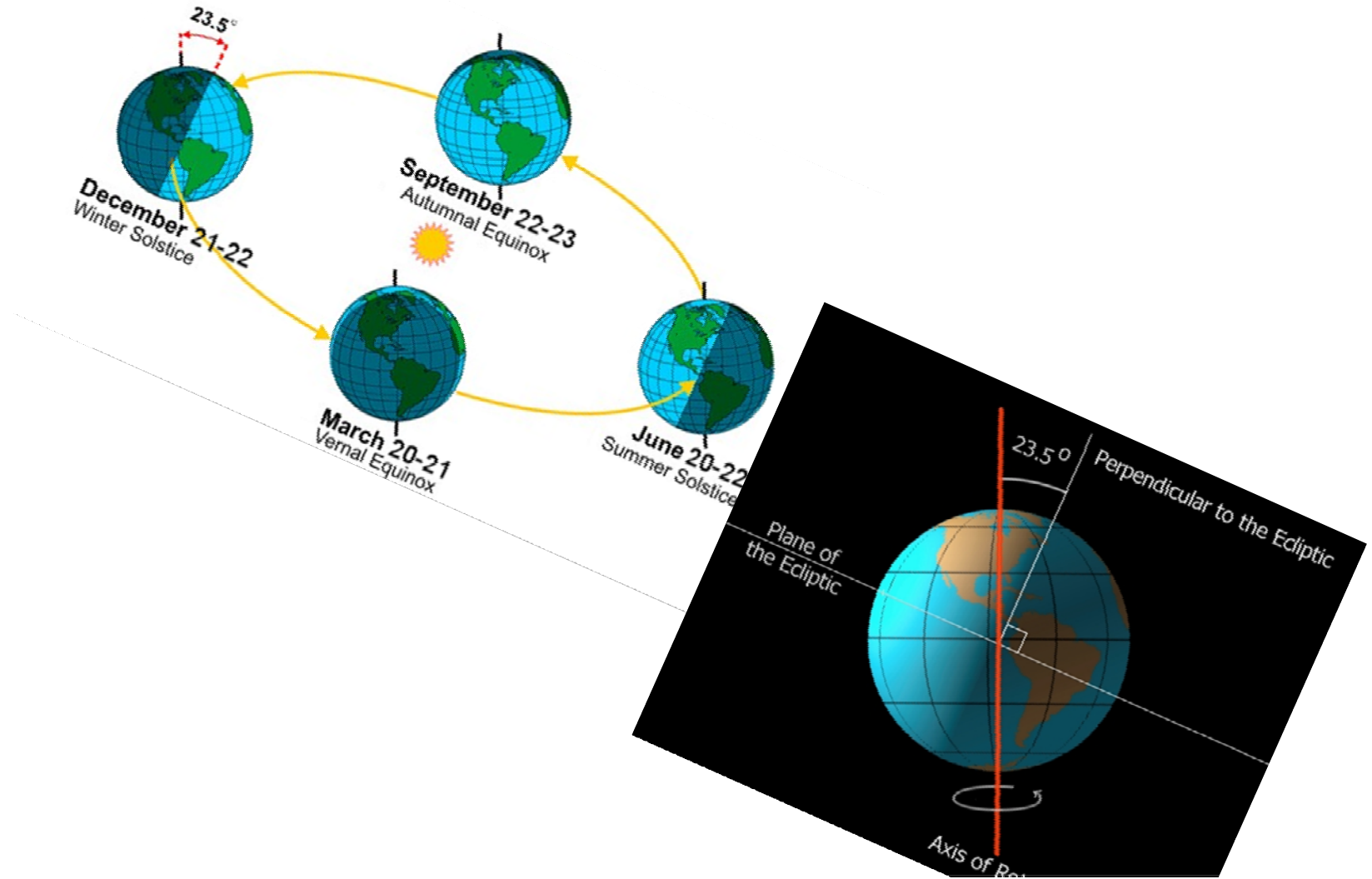


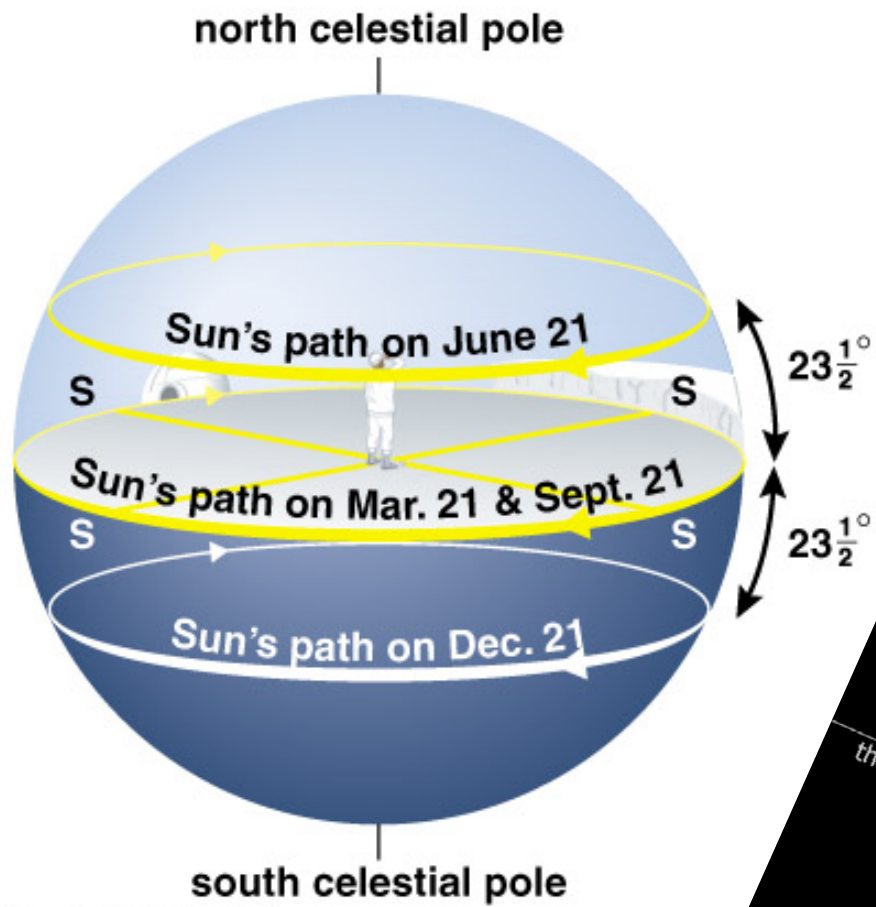
(b)

Jordaksens hældning og bane om Solen

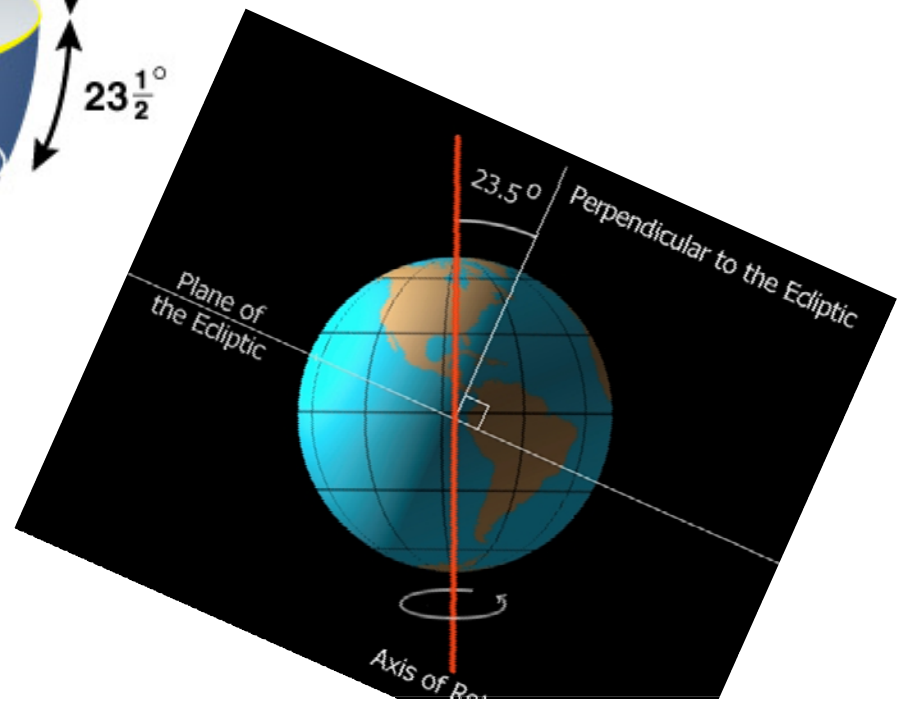


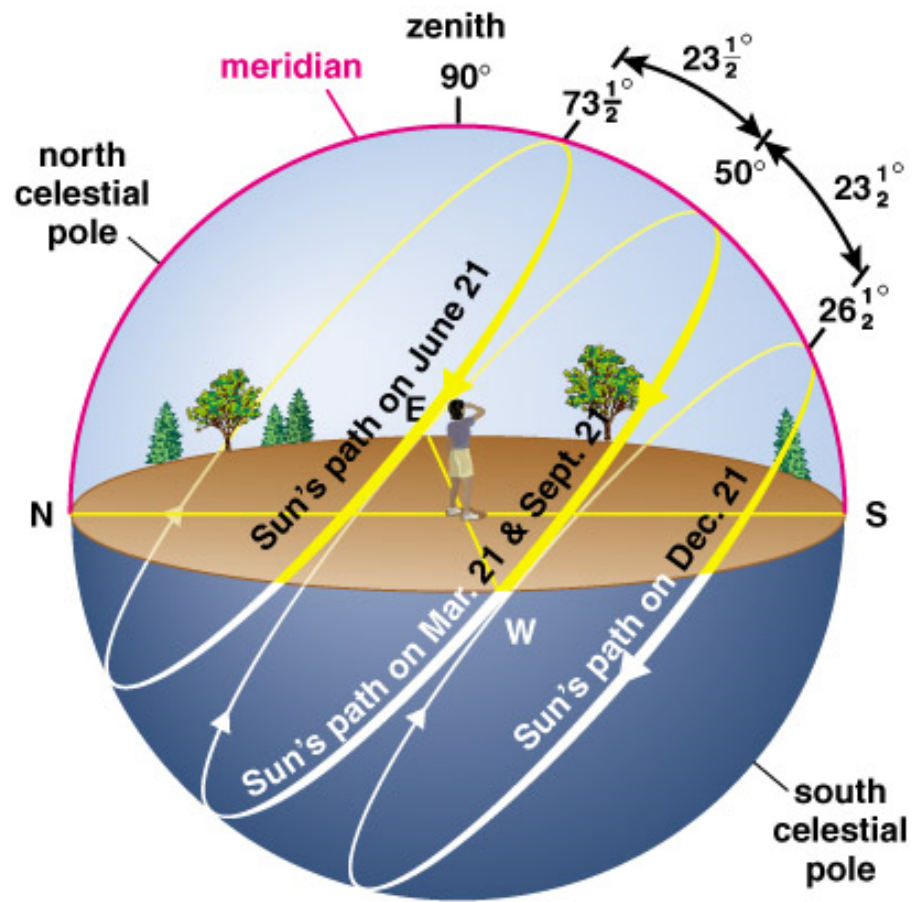
Jordaksens hældning og bane om Solen





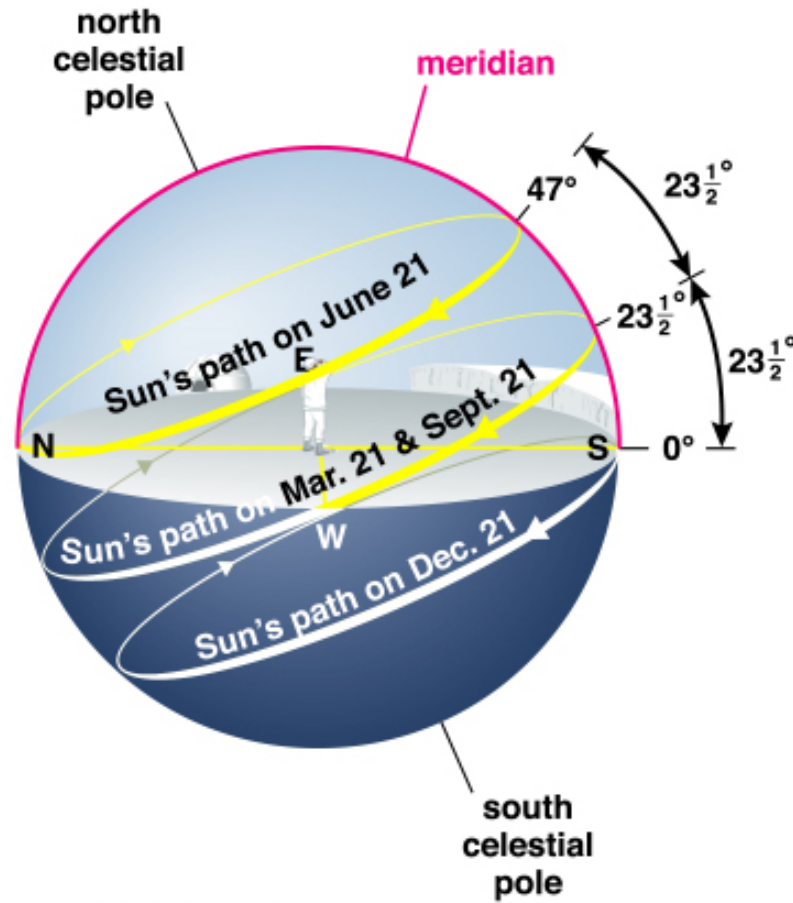
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På selve polarcirklen







Arctic region is often defined as that area where the













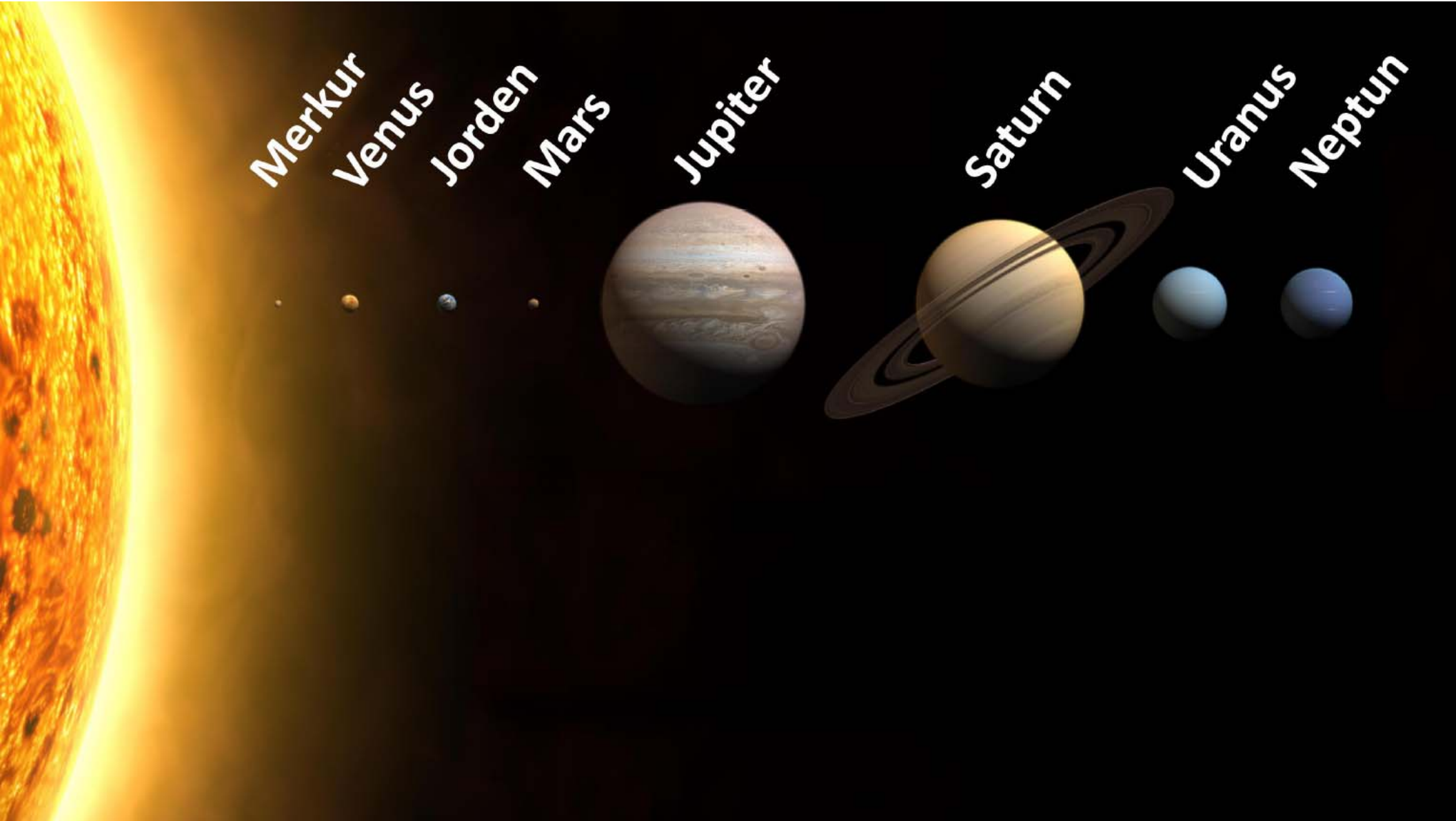
Valkyriernes rustninger?

De døde sjæle der spiller bold med kraniet fra en hvalros?



Reflekteret lys?

Lysende luft forårsaget af partikler fra verdensrummet?



Merkur

Venus

Jorden

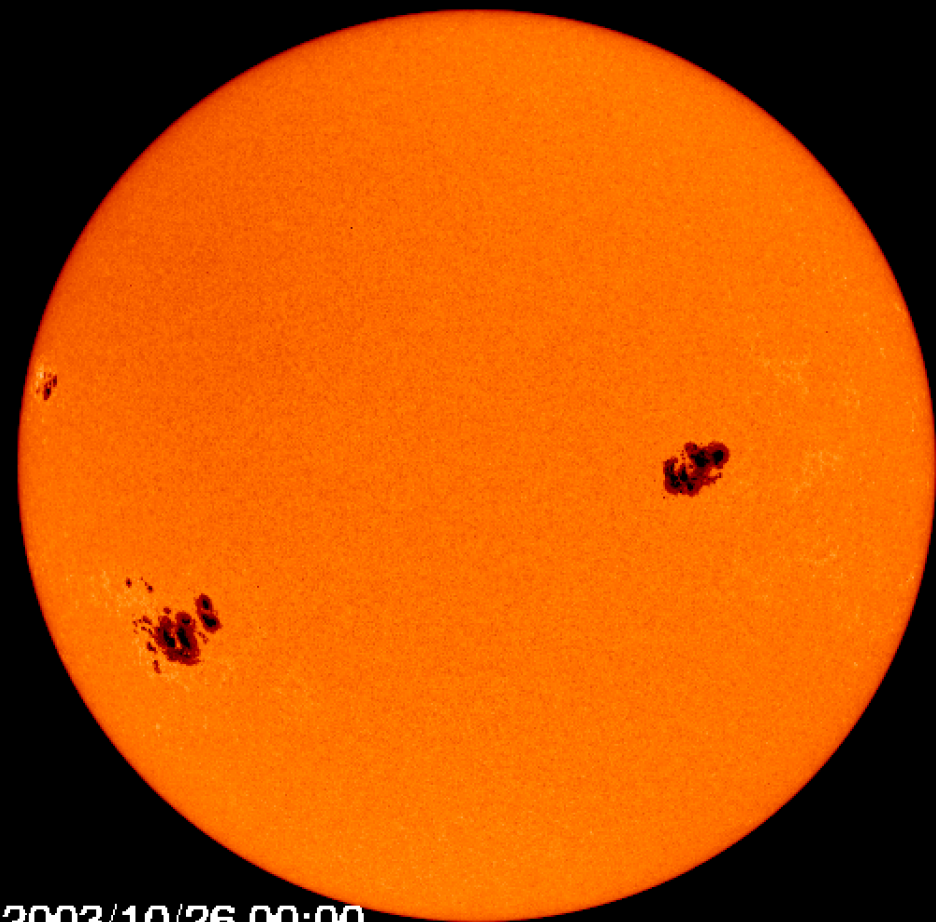
Mars

Jupiter

Saturn

Uranus

Neptun



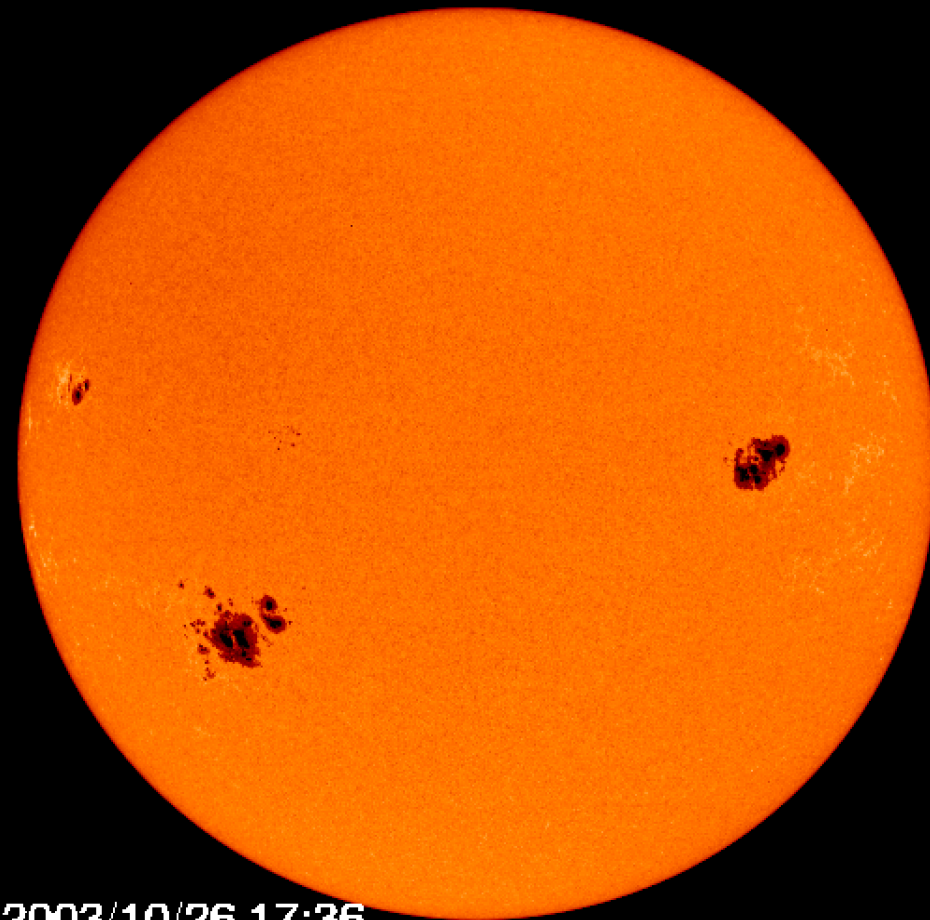
2003/10/26 00:00



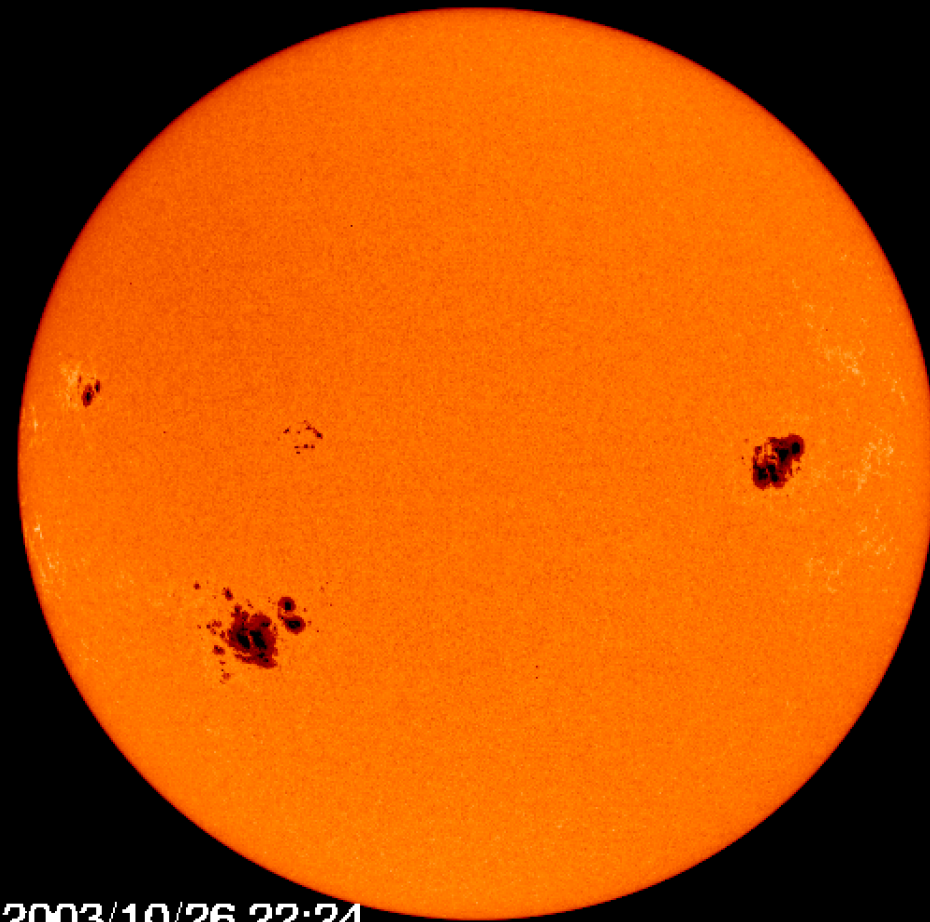
2003/10/26 06:24



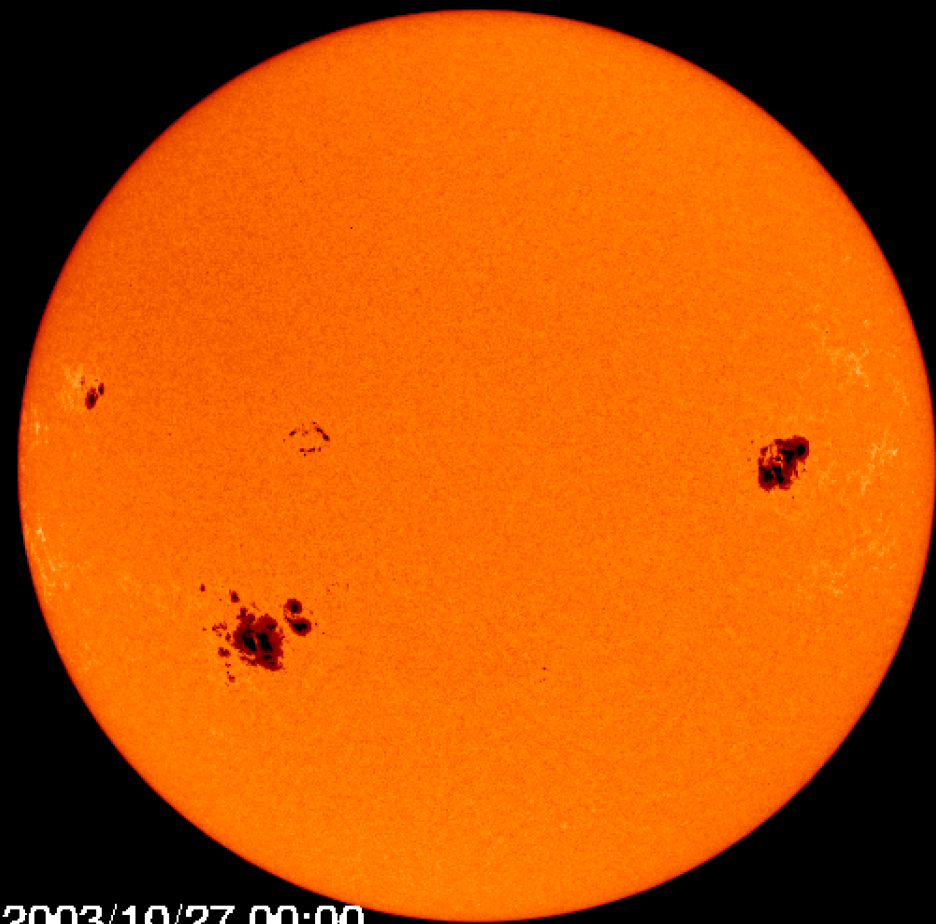
2003/10/26 14:24



2003/10/26 17:36



2003/10/26 22:24



2003/10/27 00:00



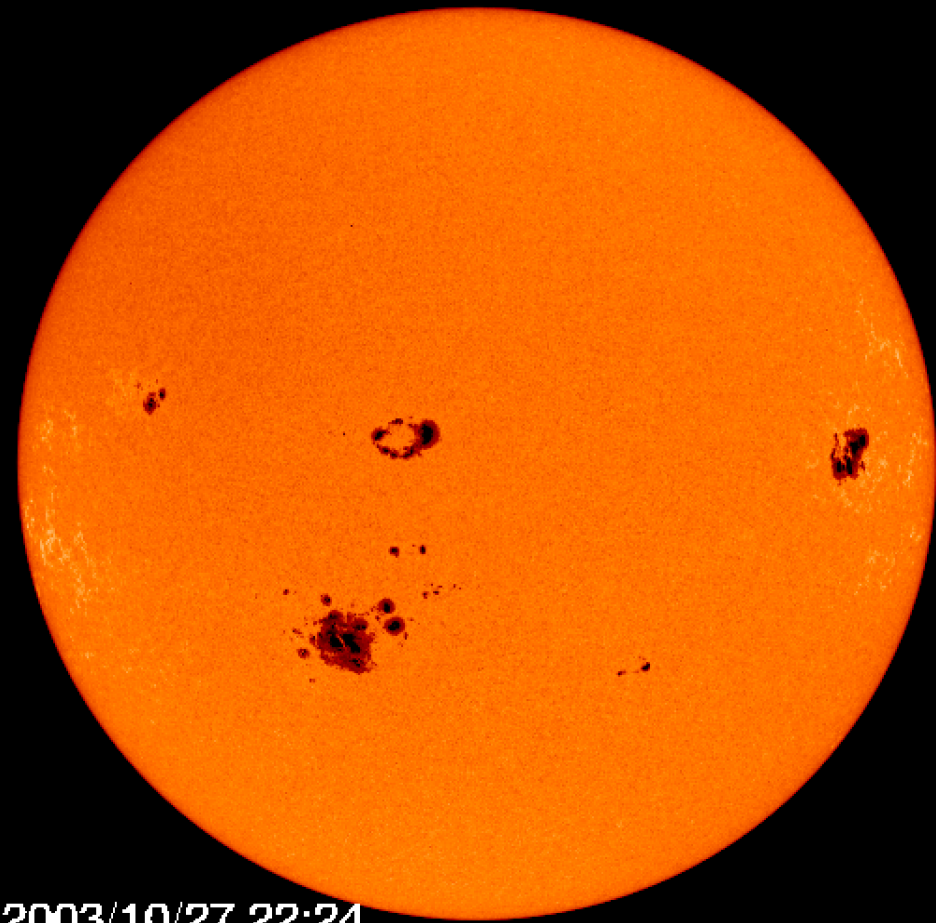
2003/10/27 08:00



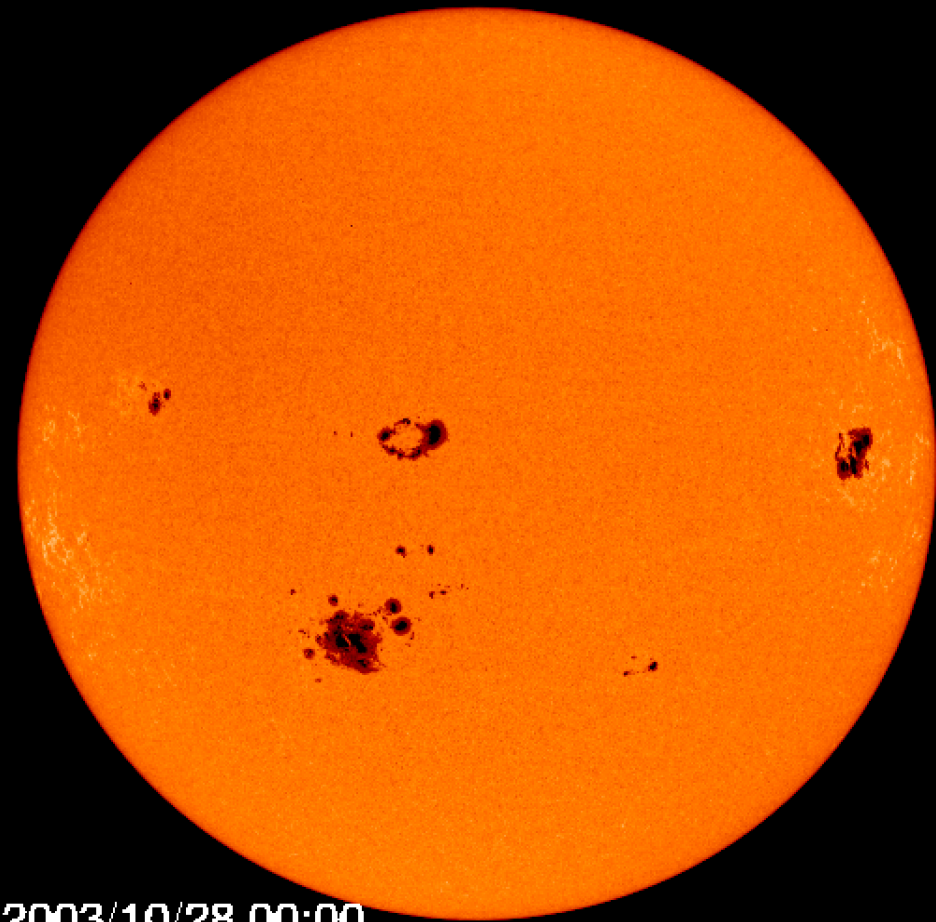
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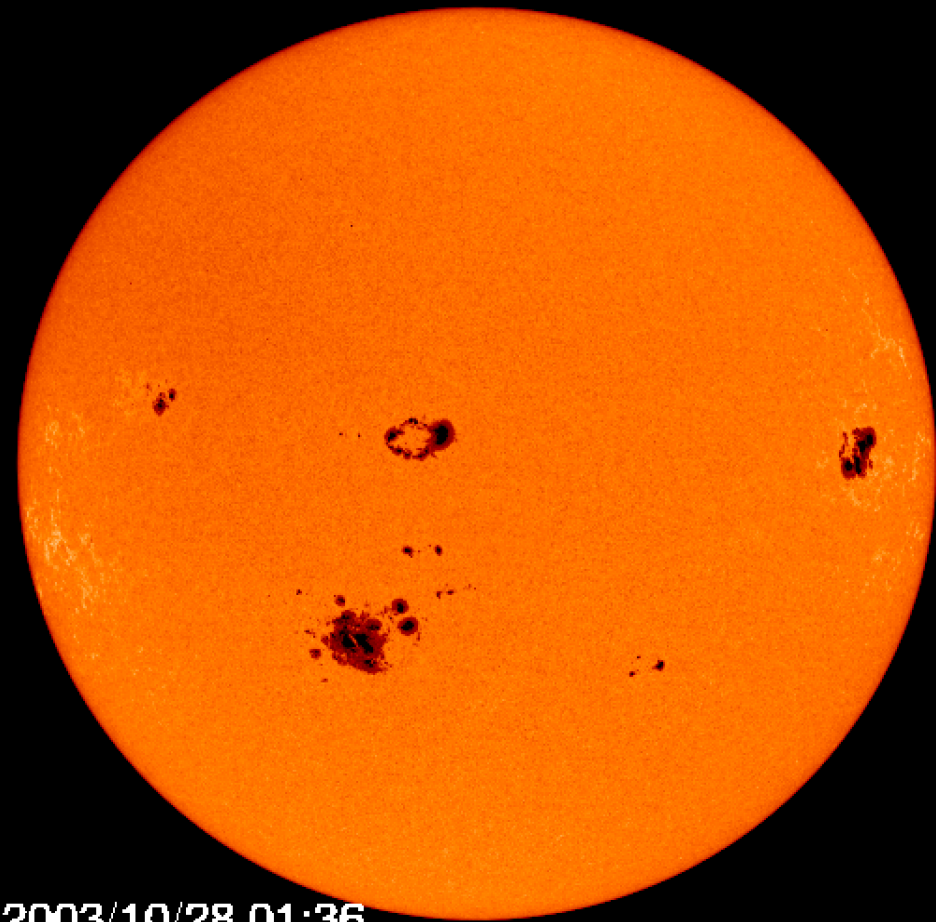
2003/10/27 17:36



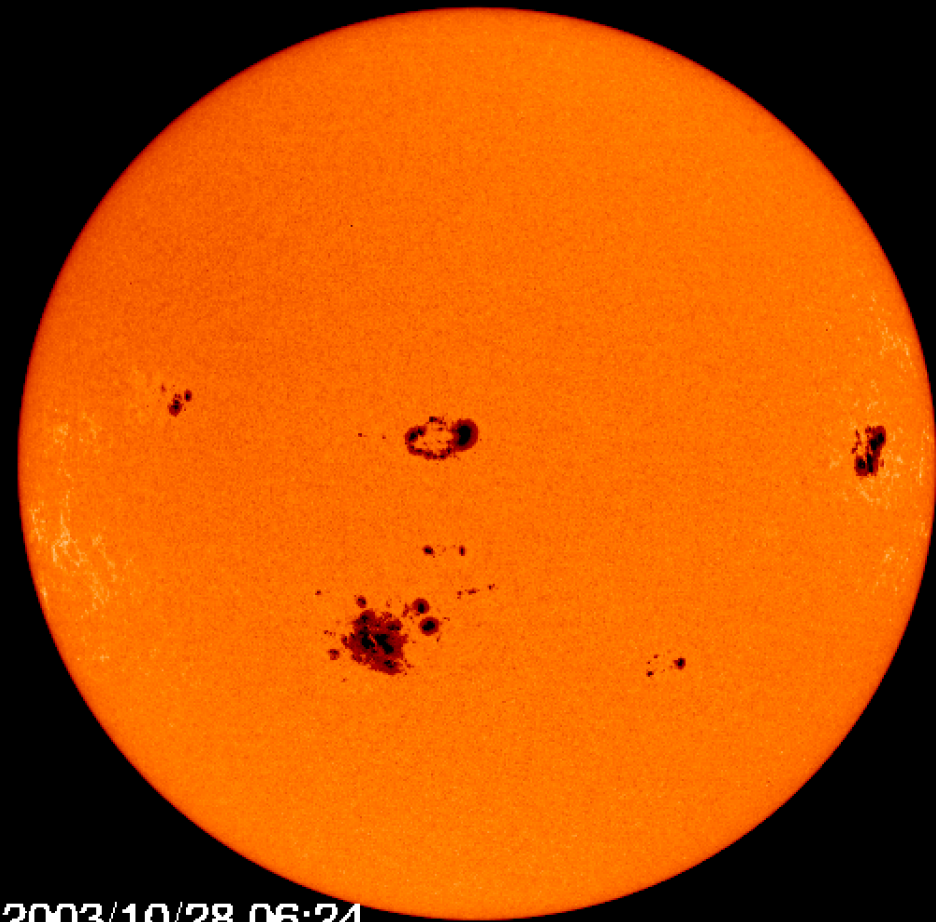
2003/10/27 22:24



2003/10/28 00:00



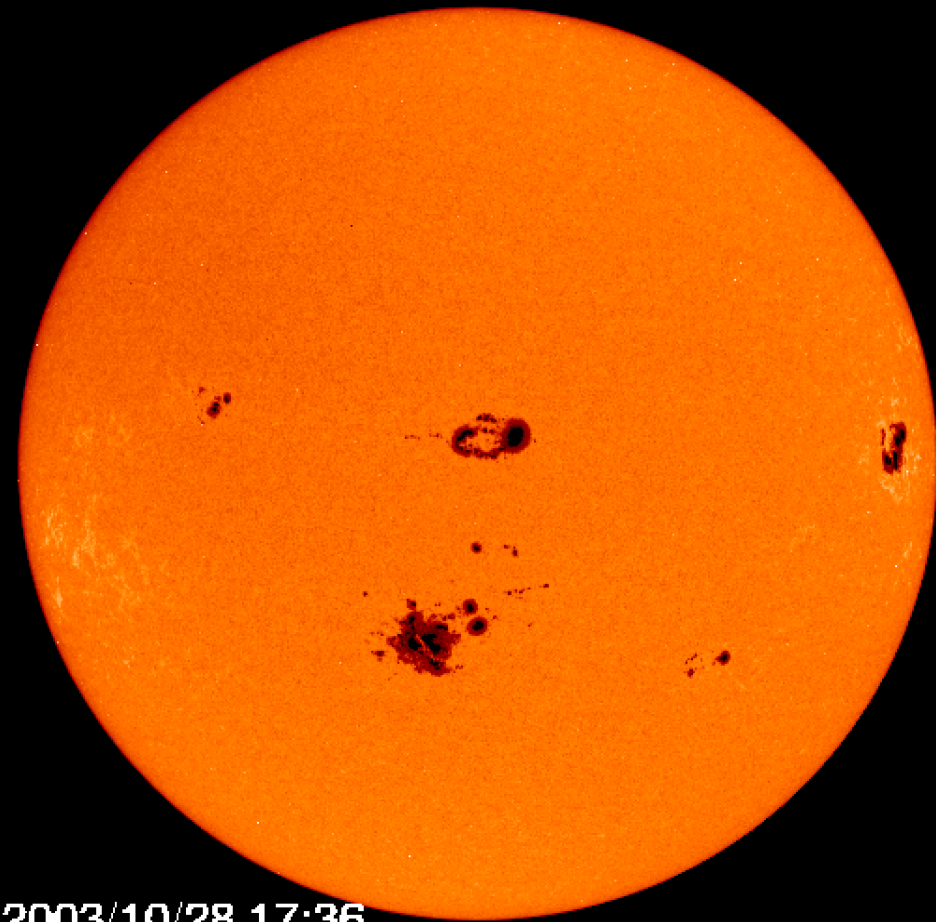
2003/10/28 01:36



2003/10/28 06:24



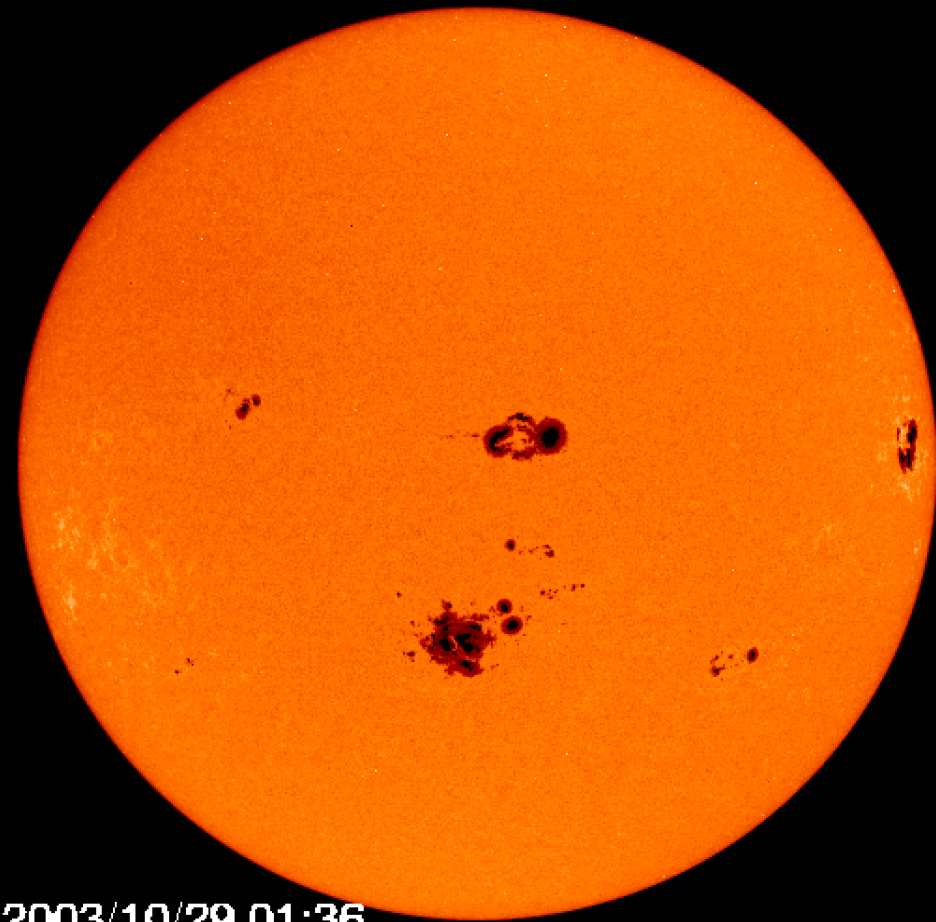
2003/10/28 14:24



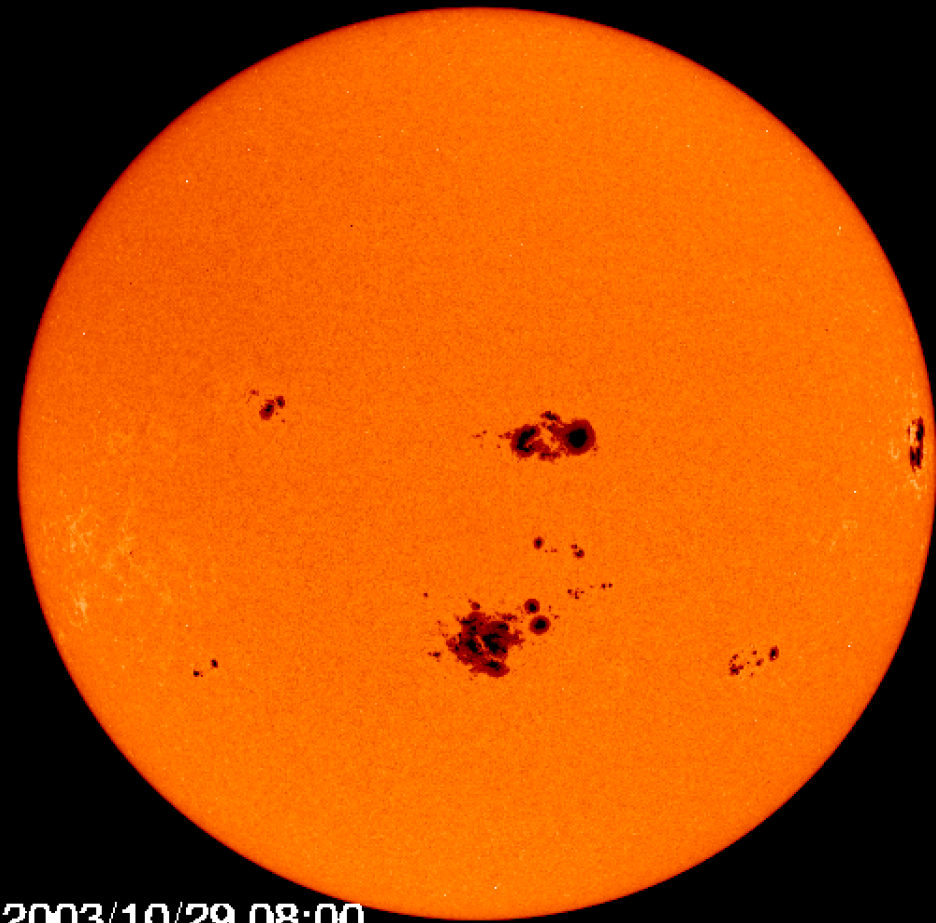
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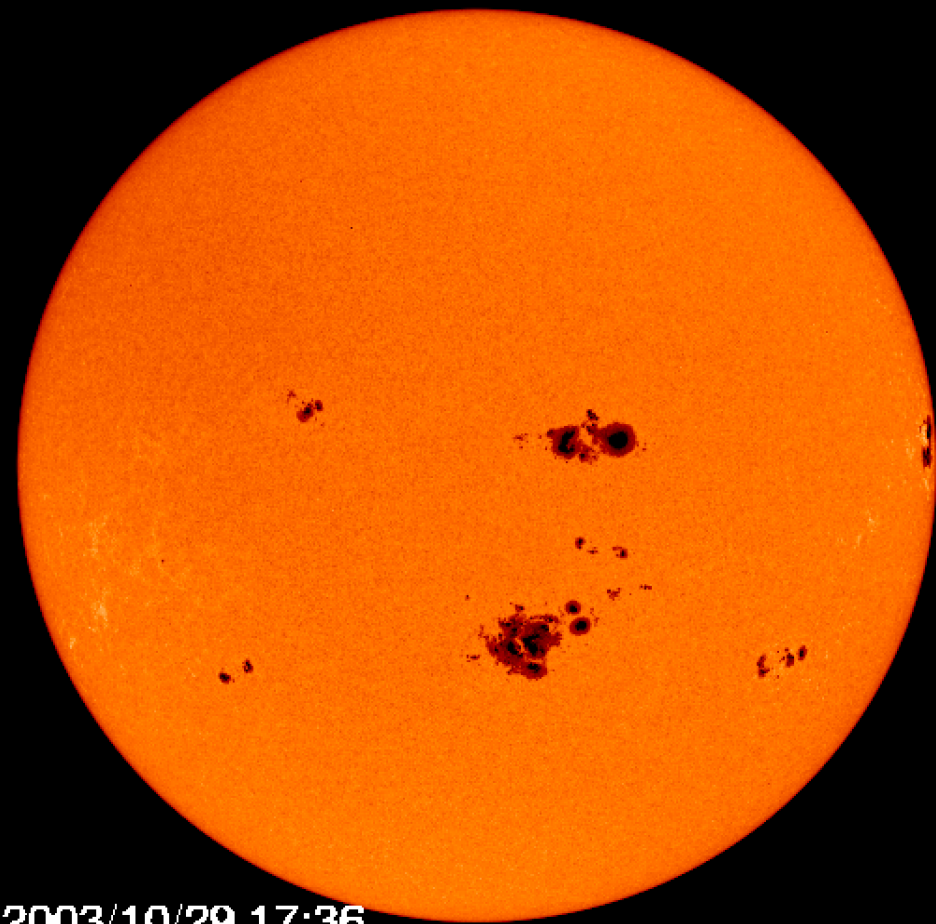
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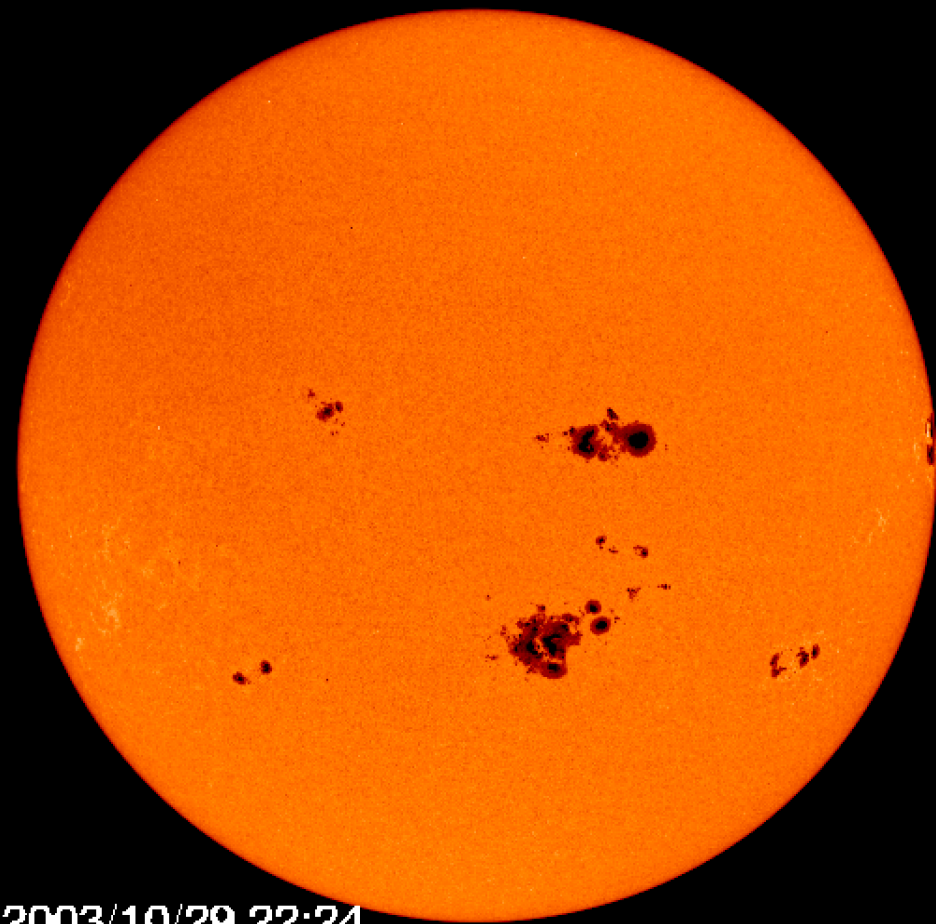
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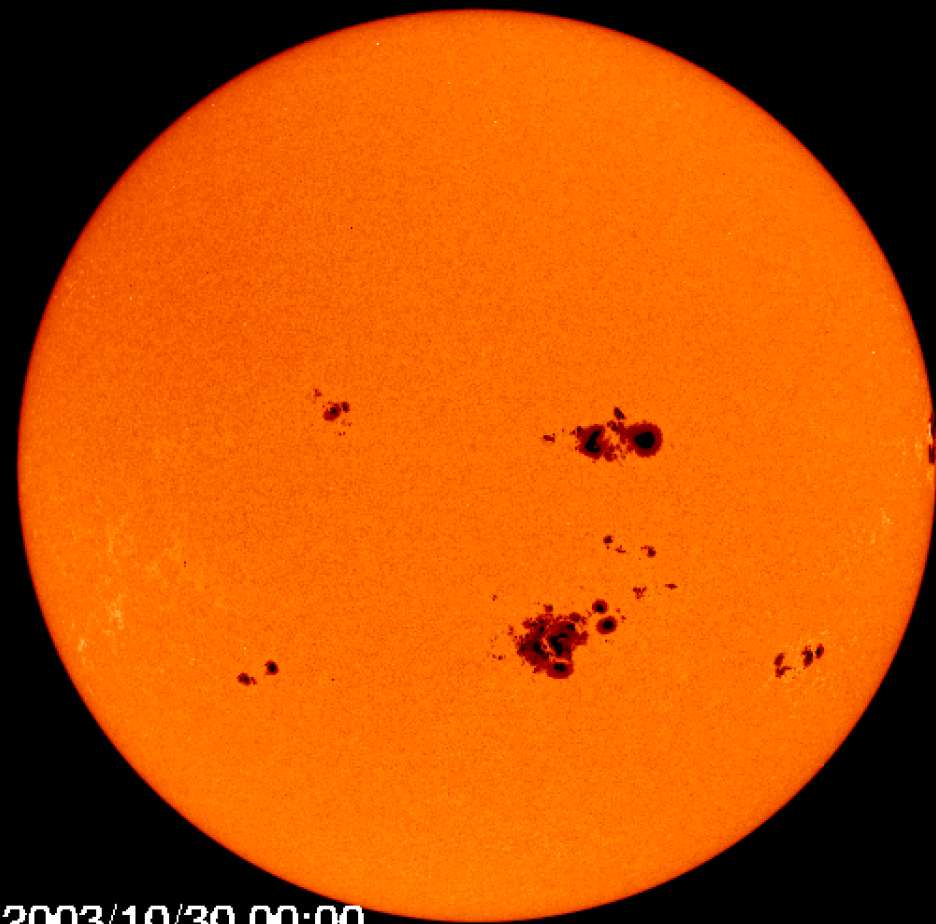
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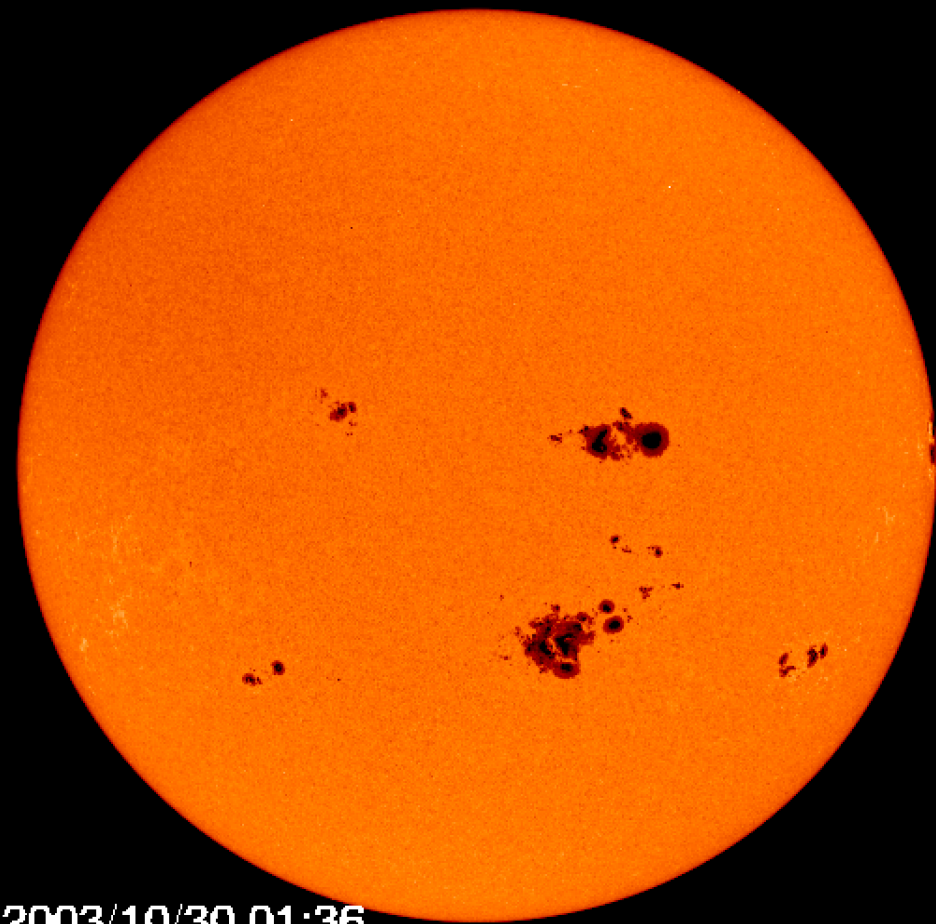
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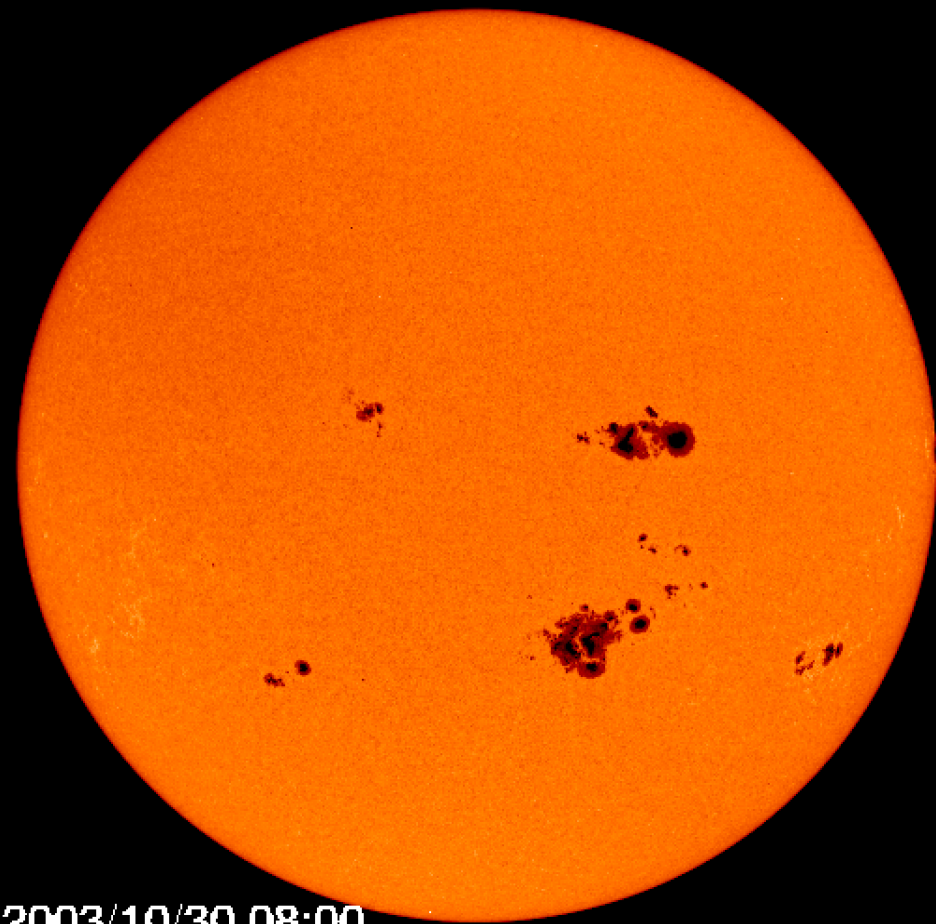
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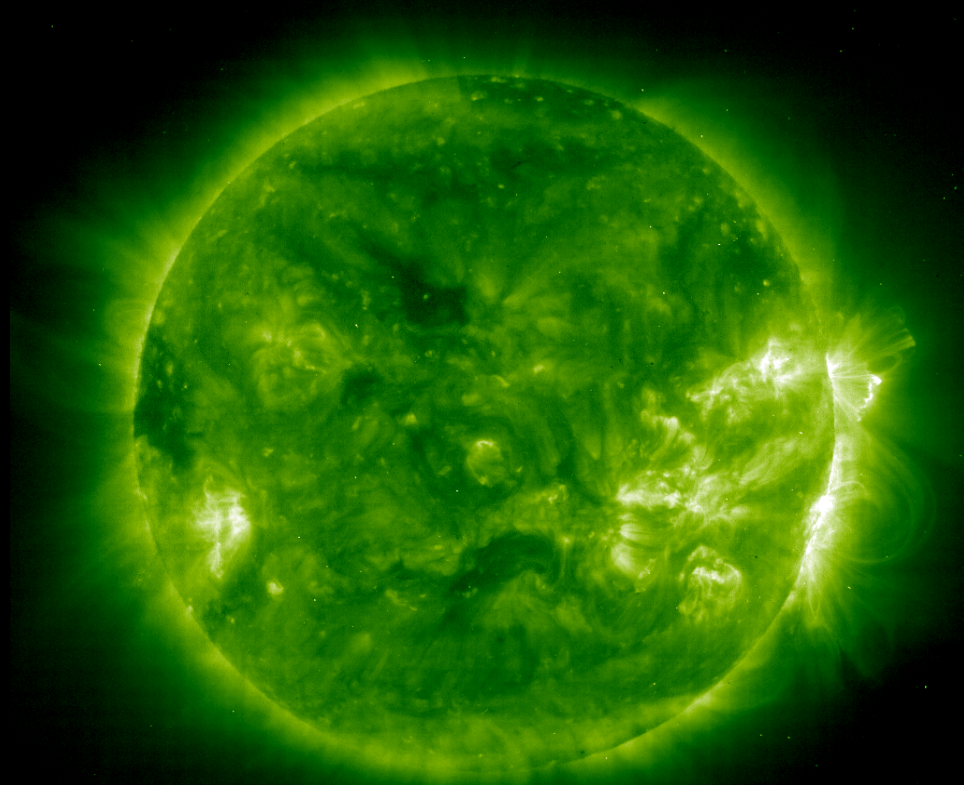
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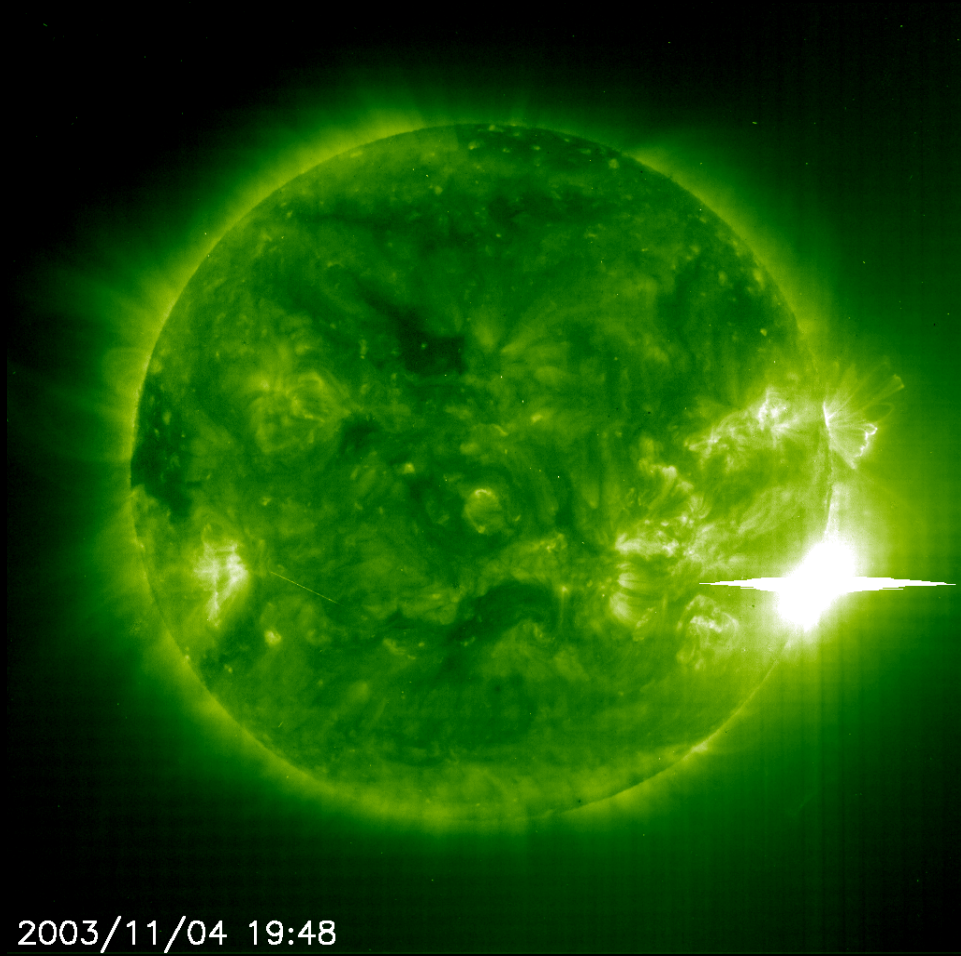
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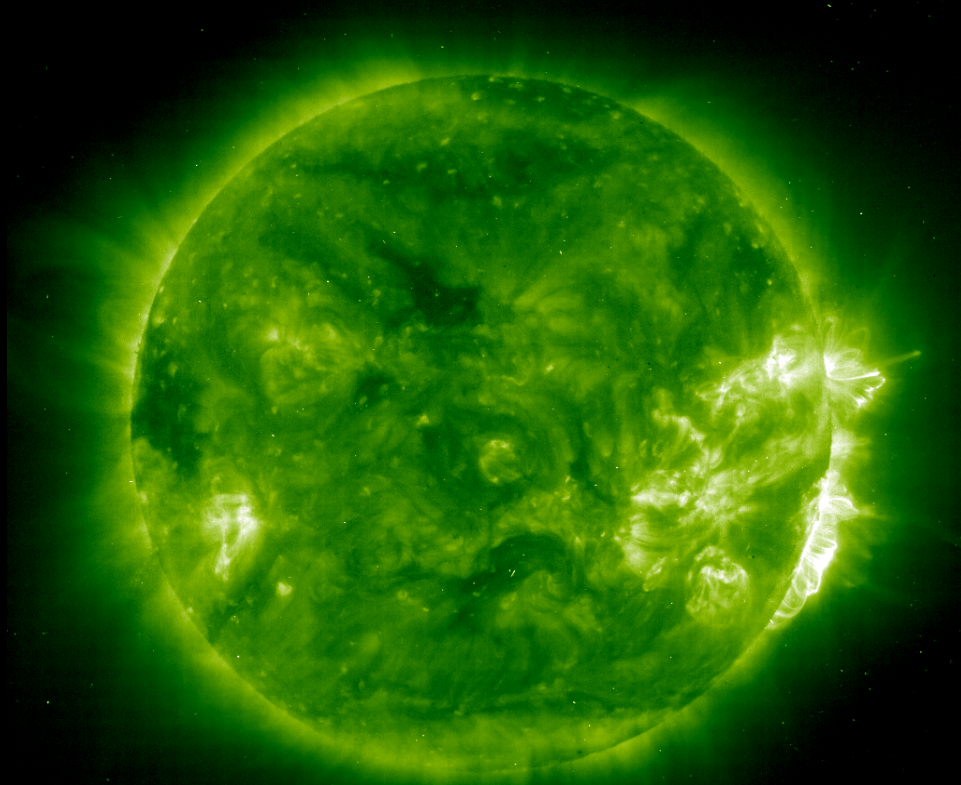
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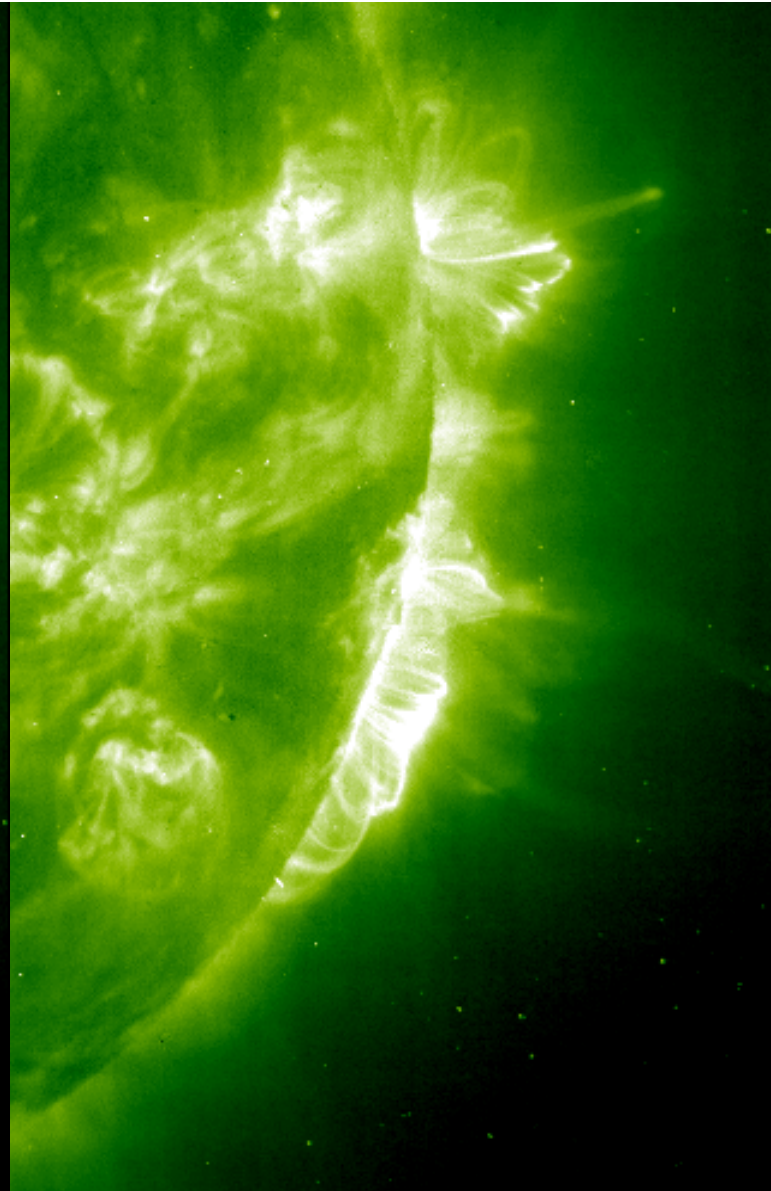
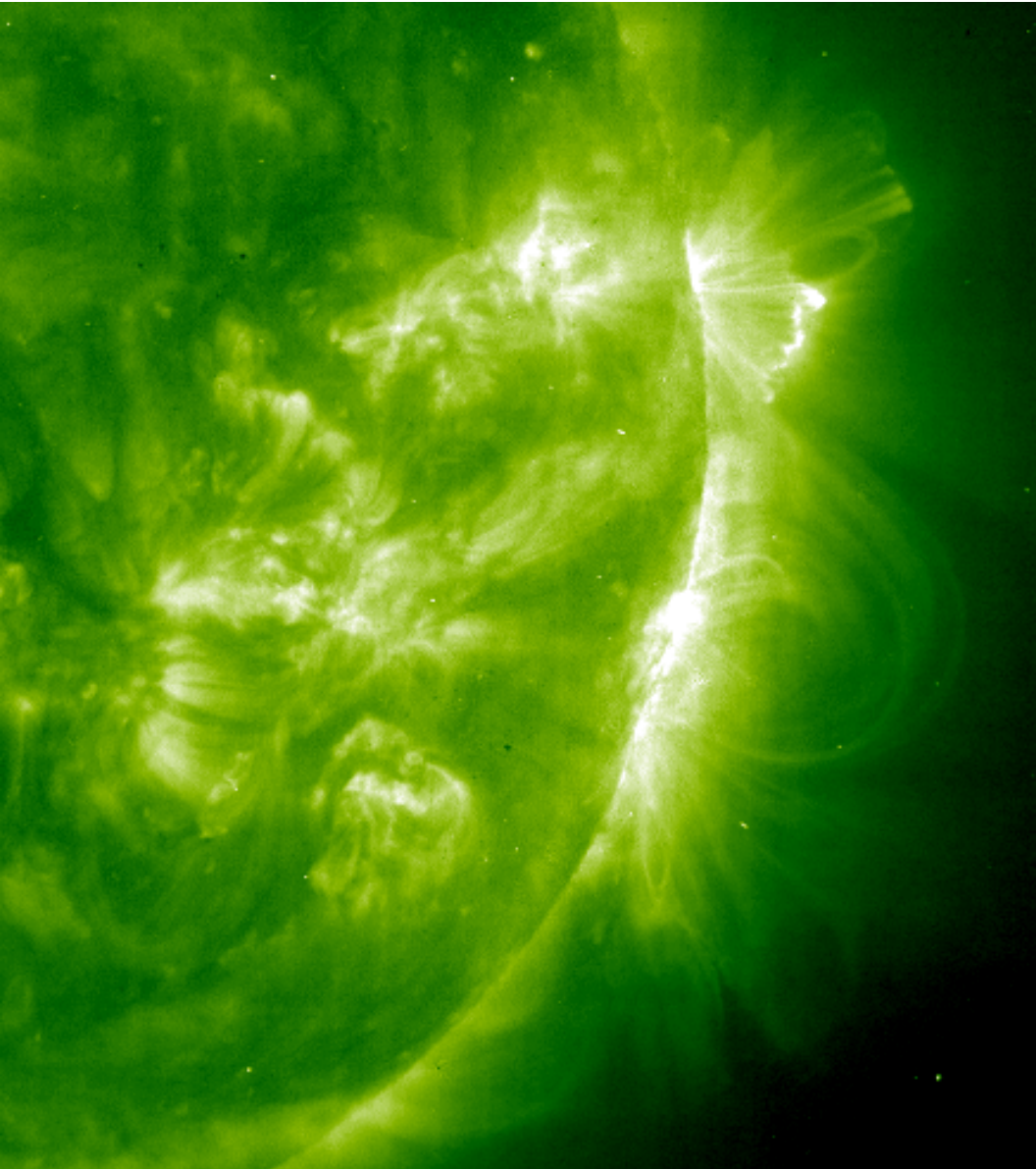
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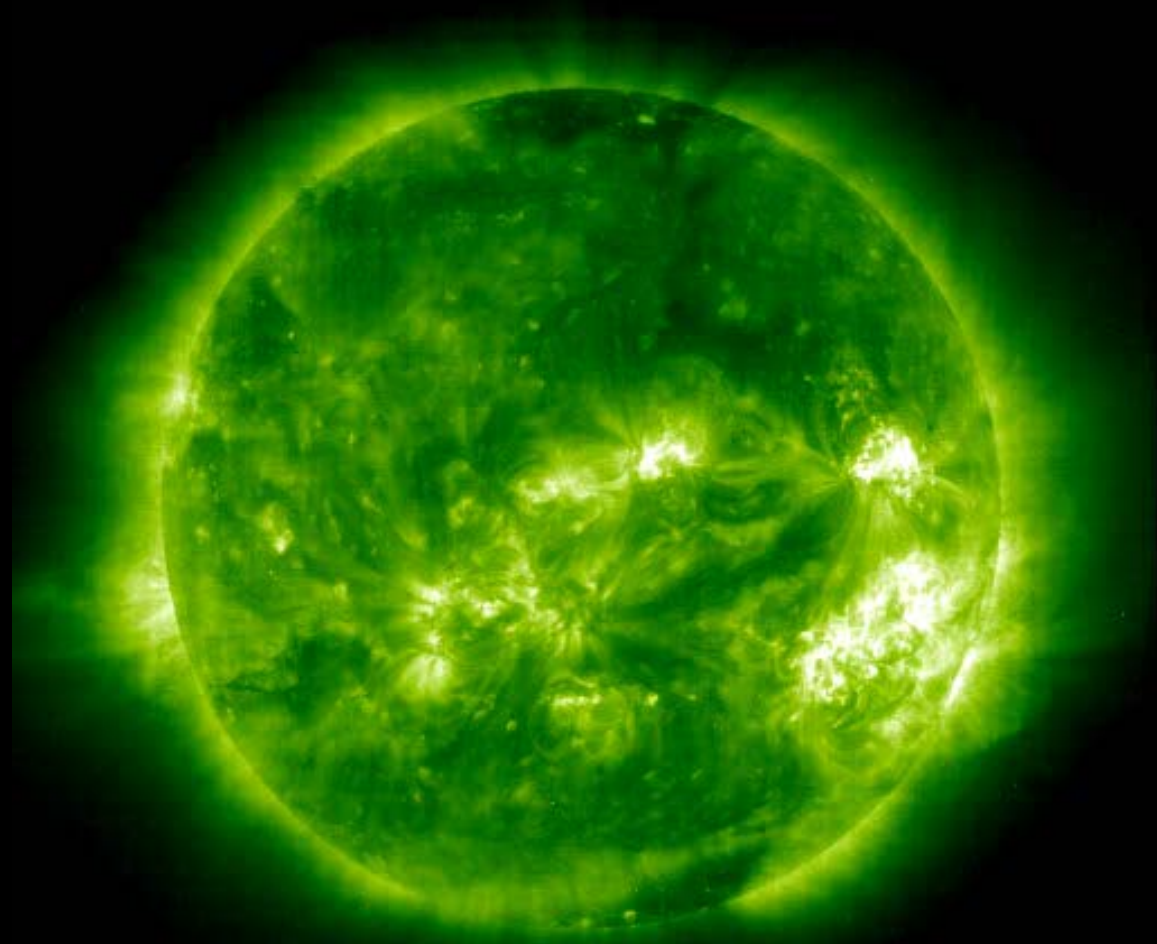


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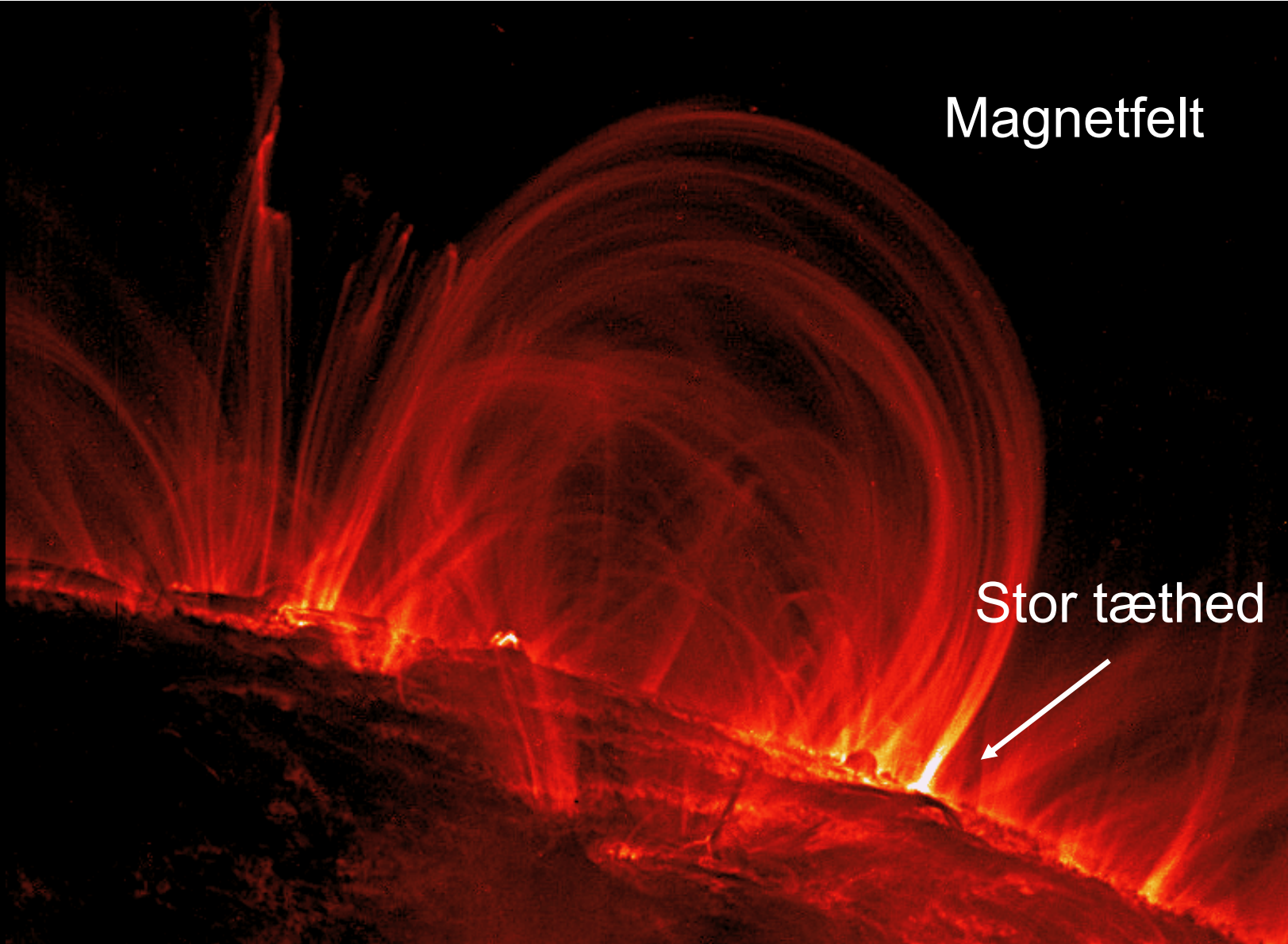


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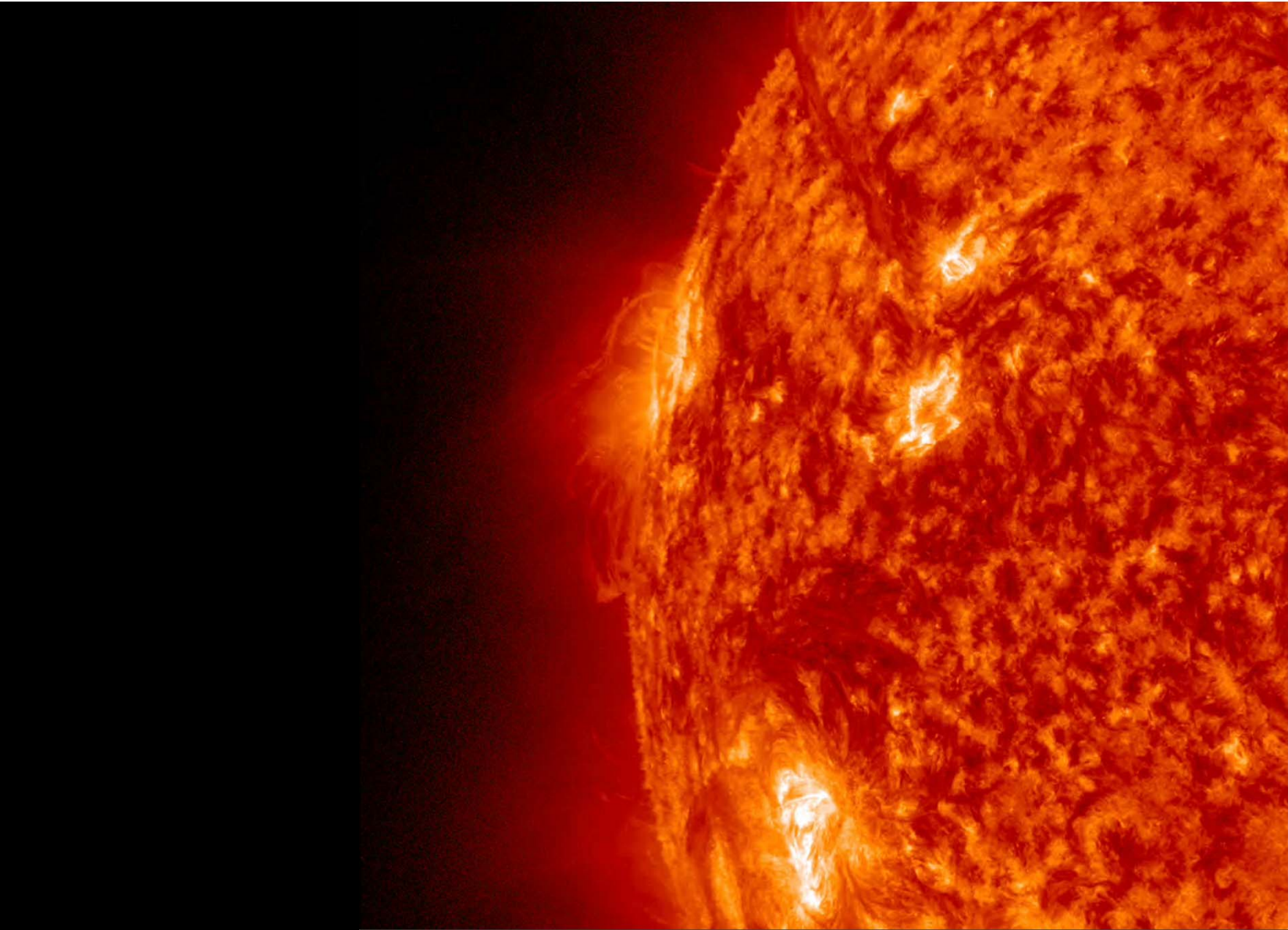
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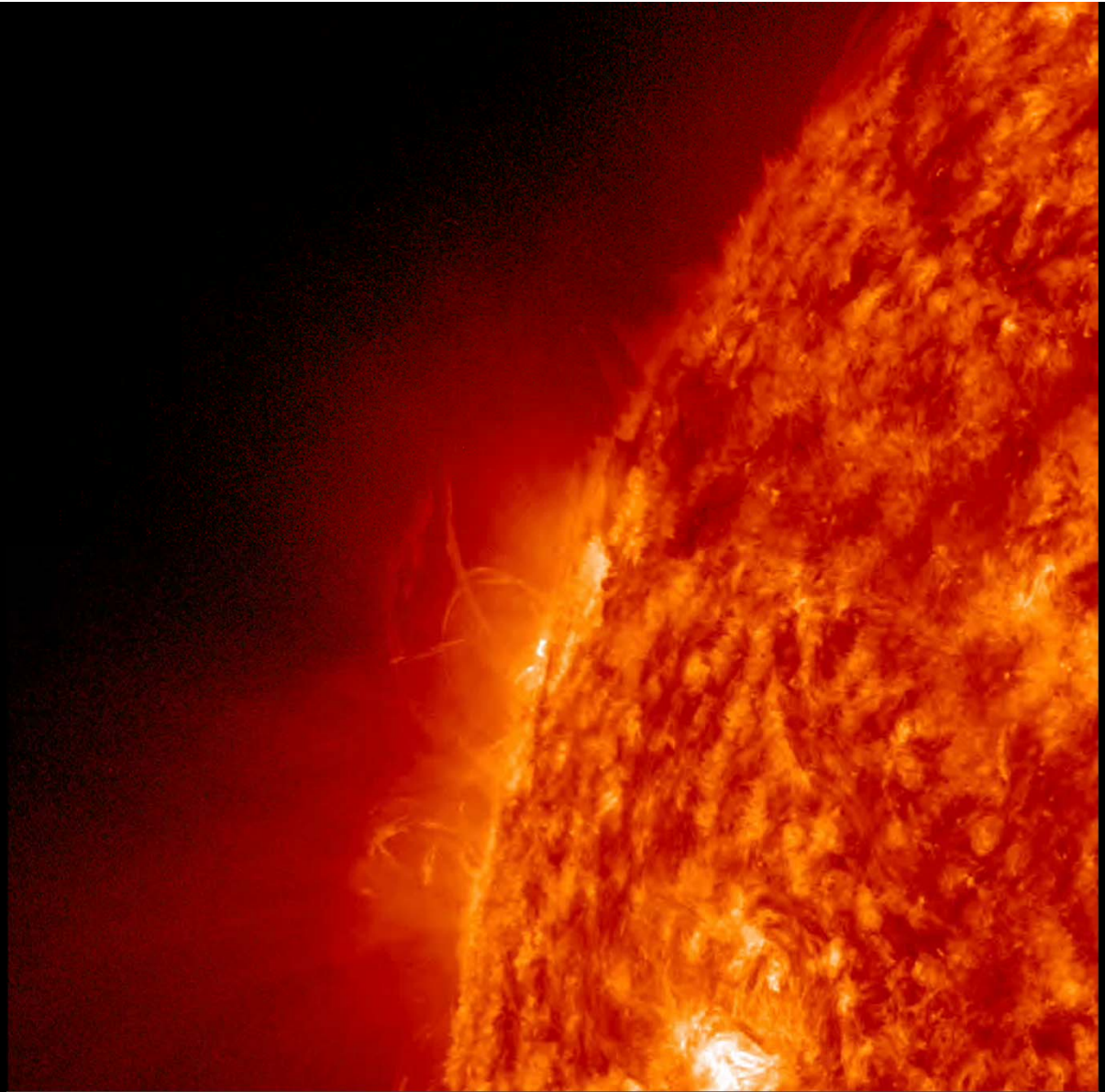


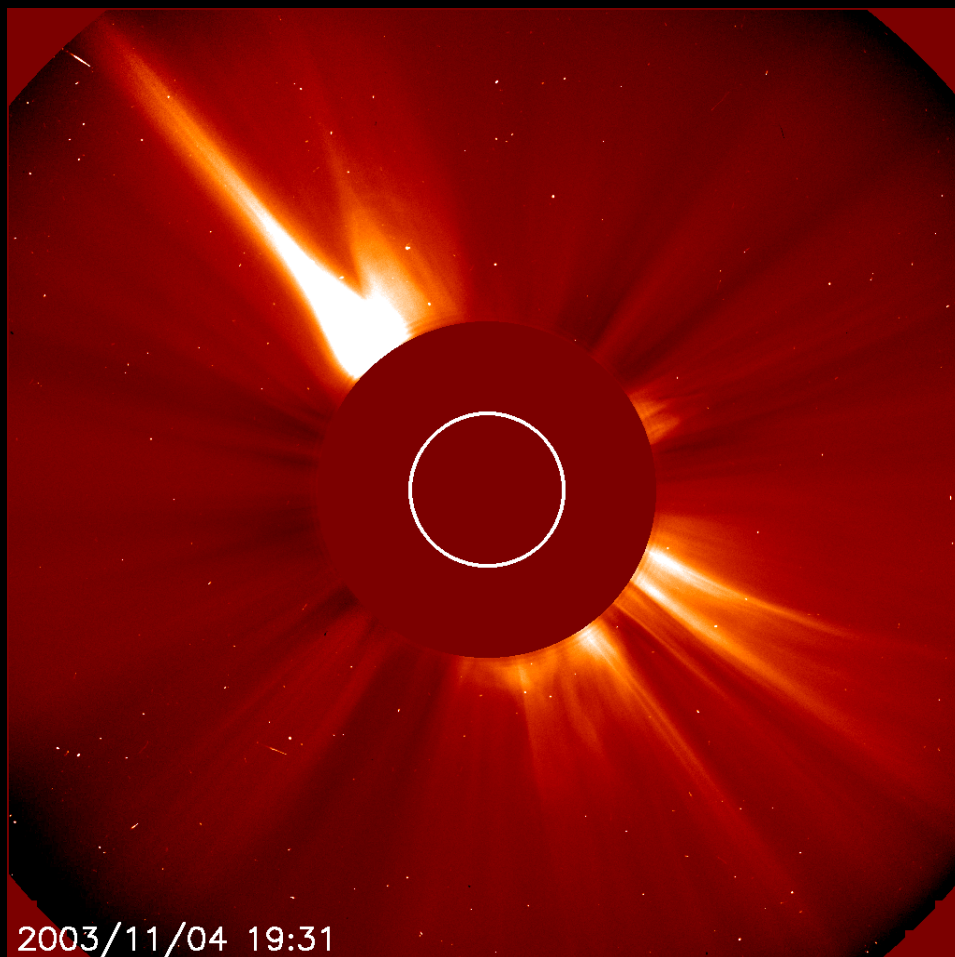
Magnetfelt

Stor tæthed

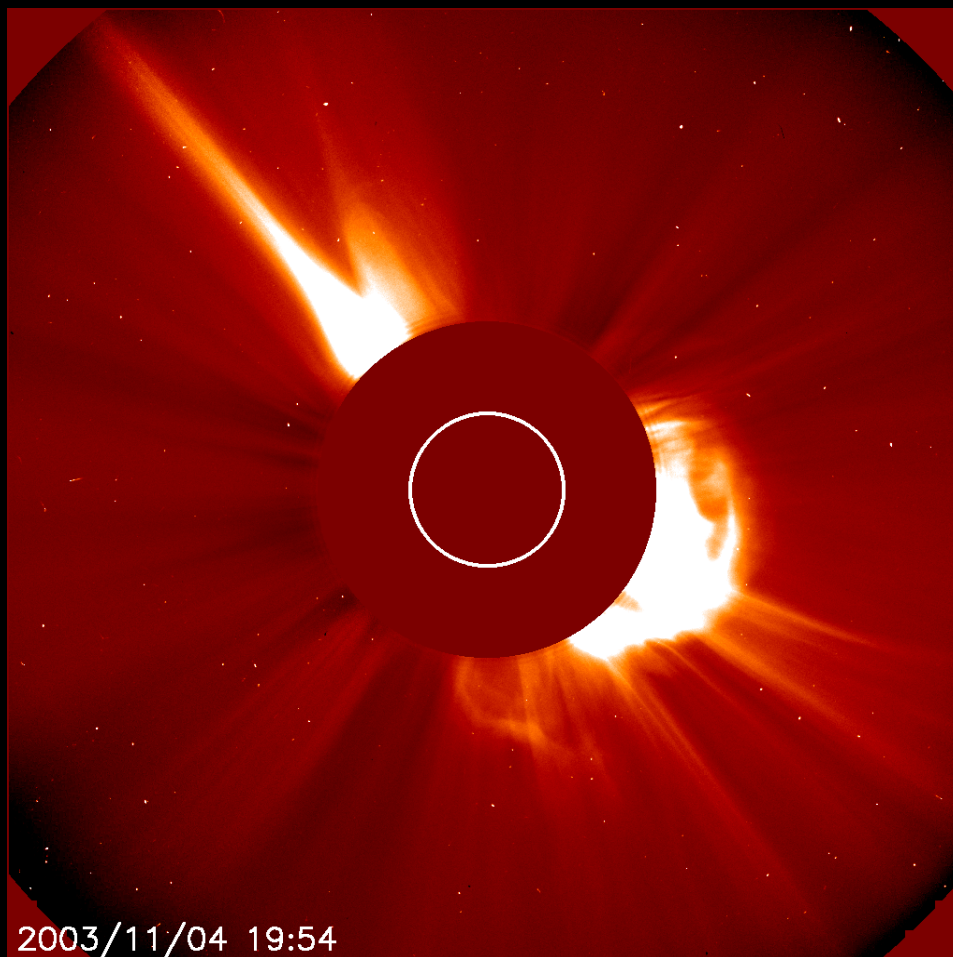


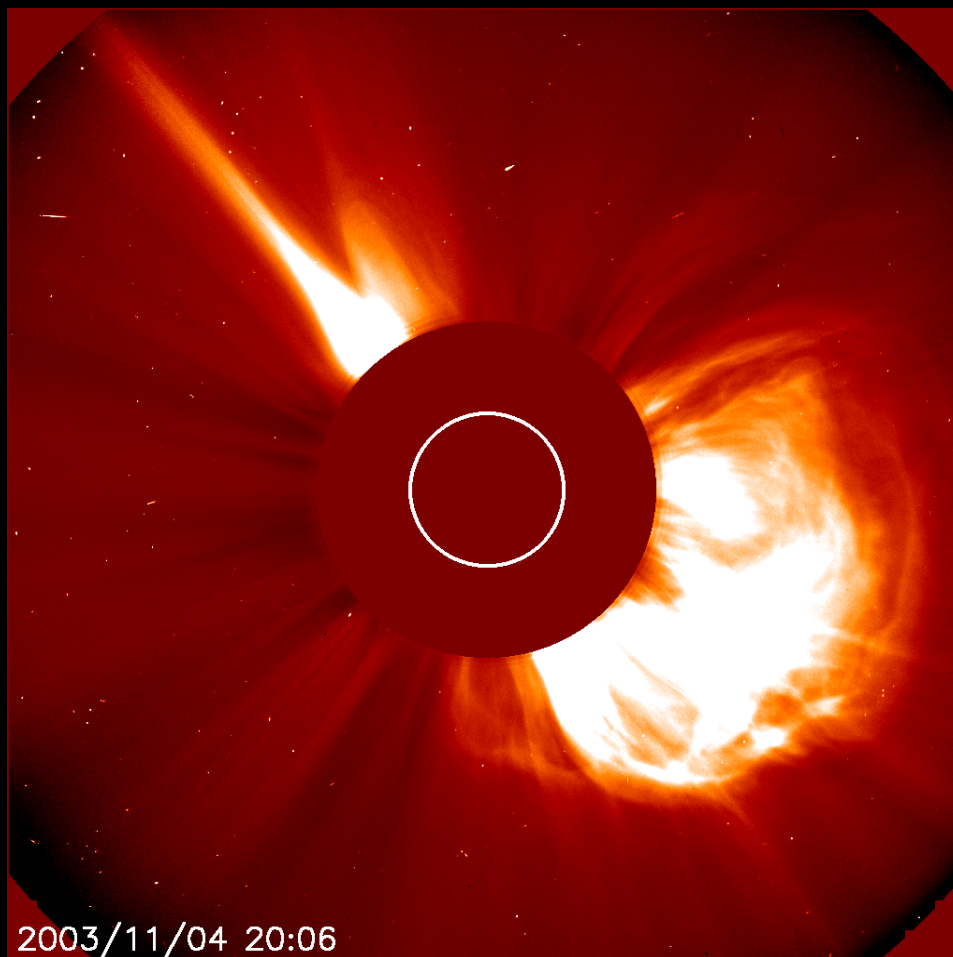


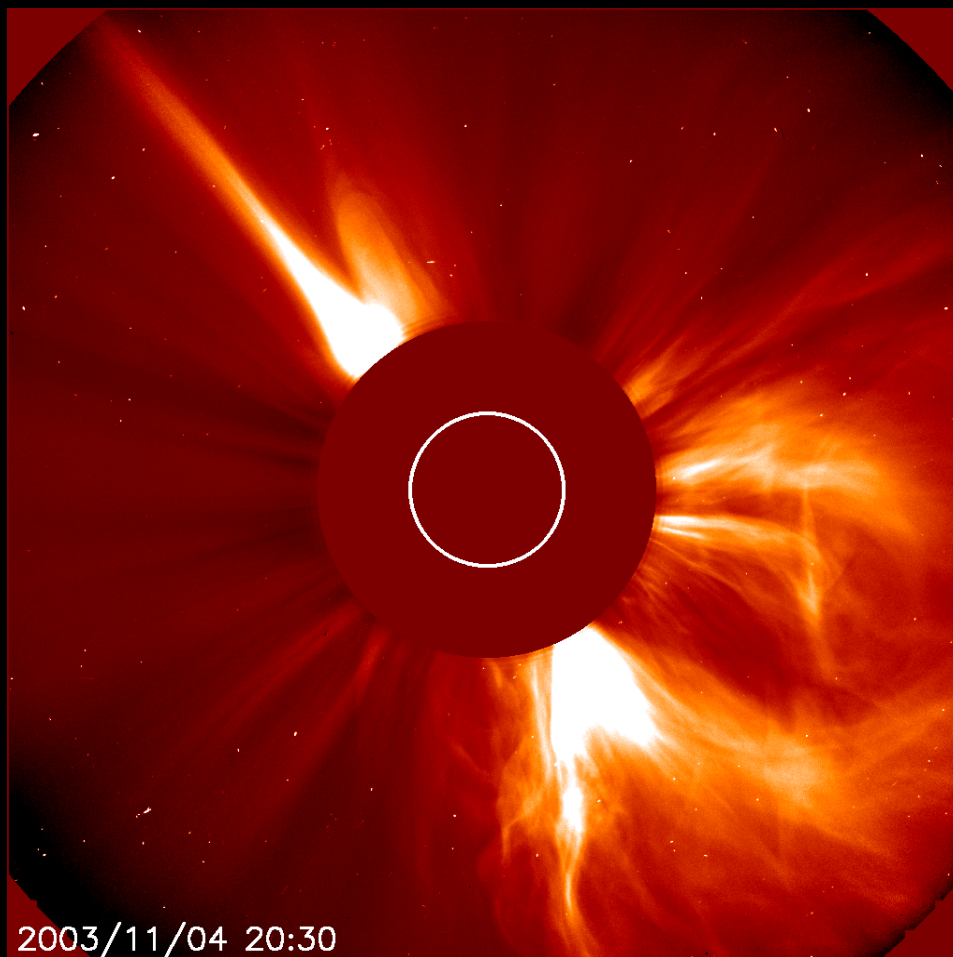


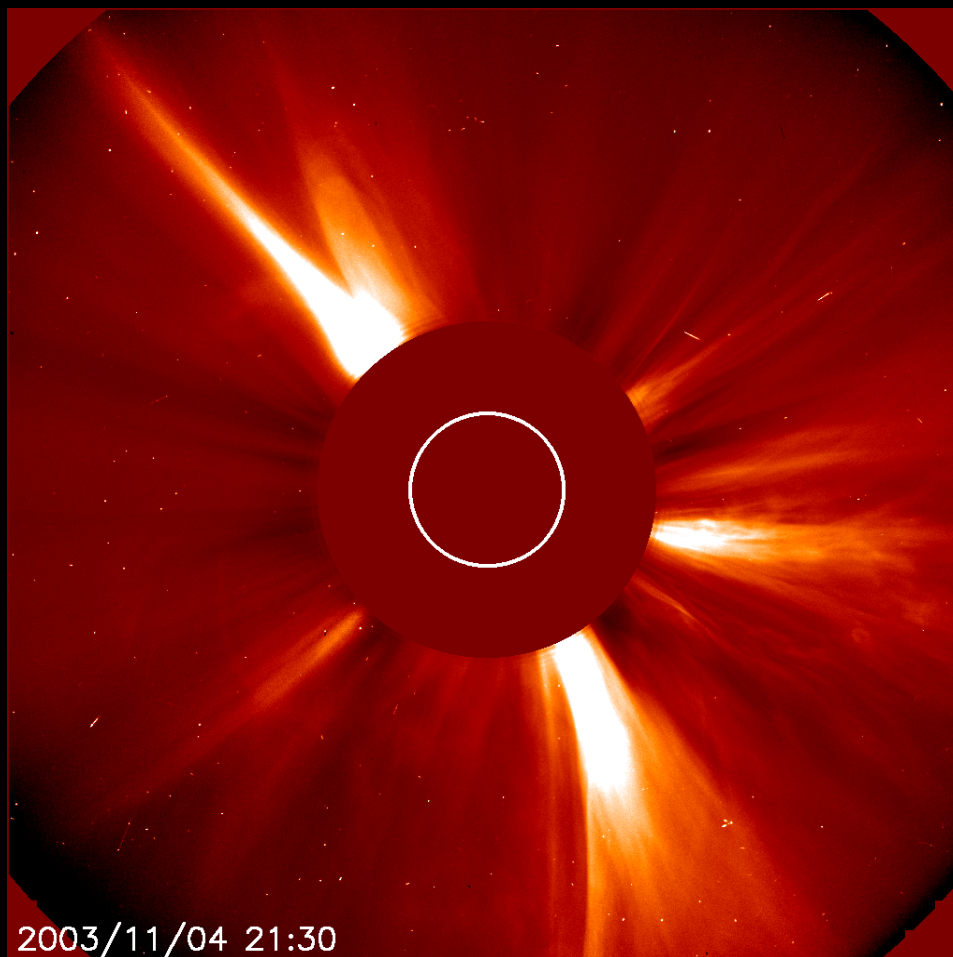


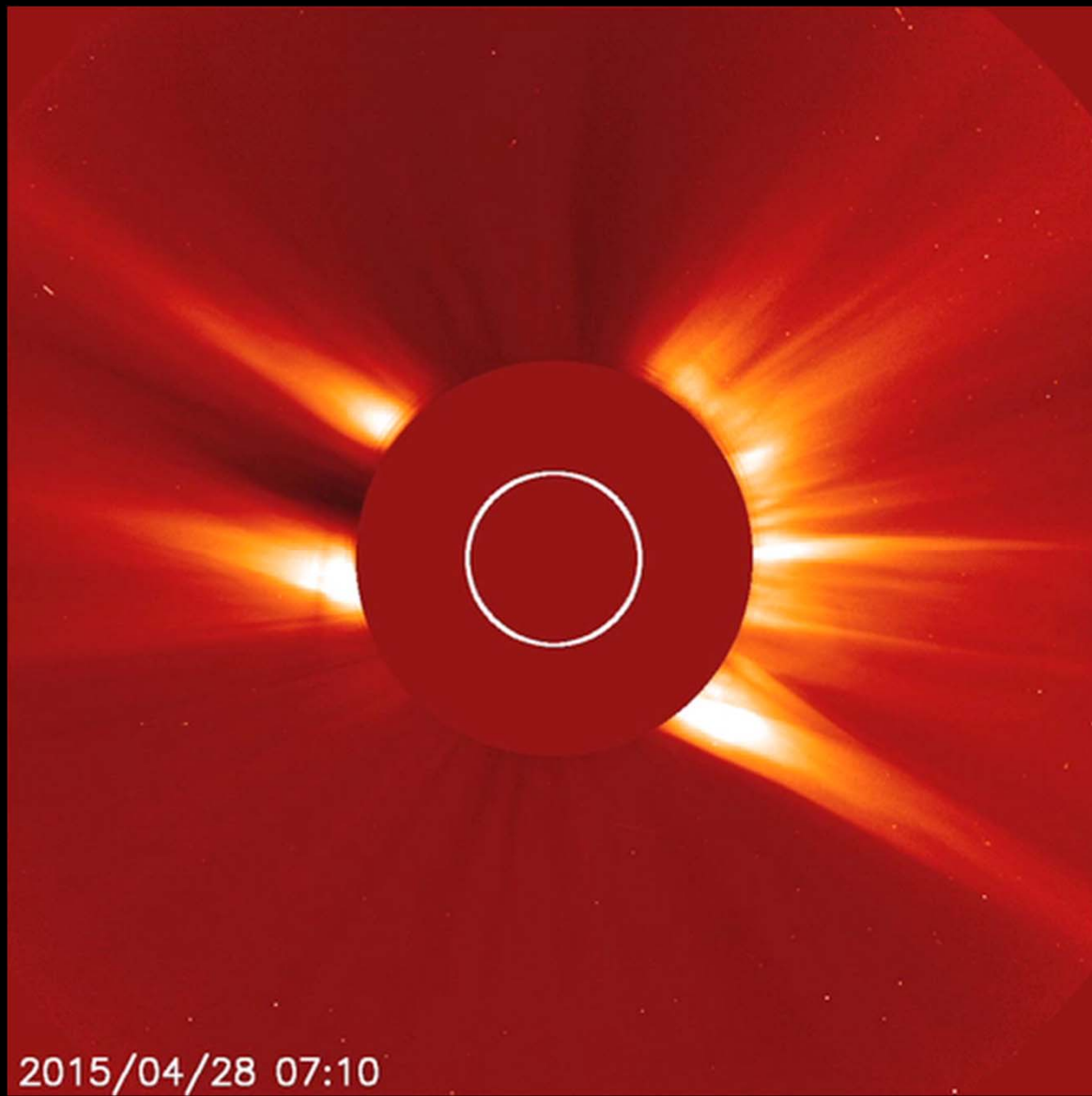
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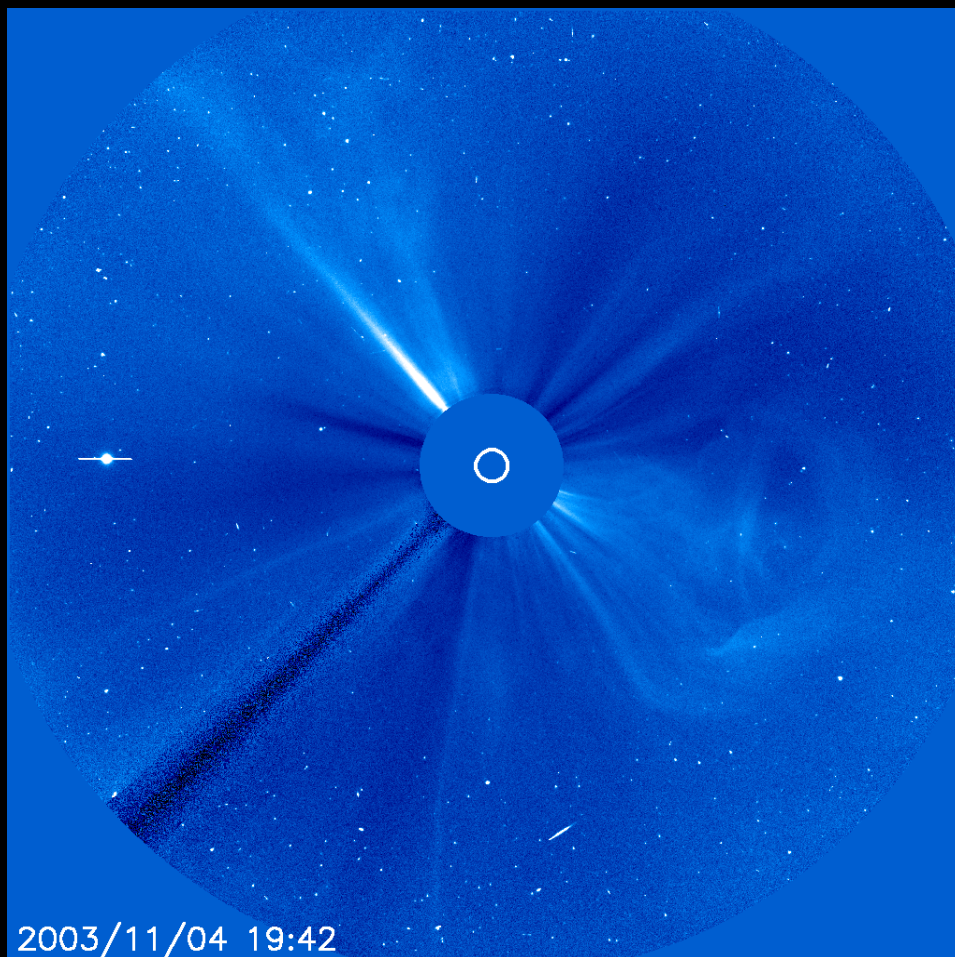




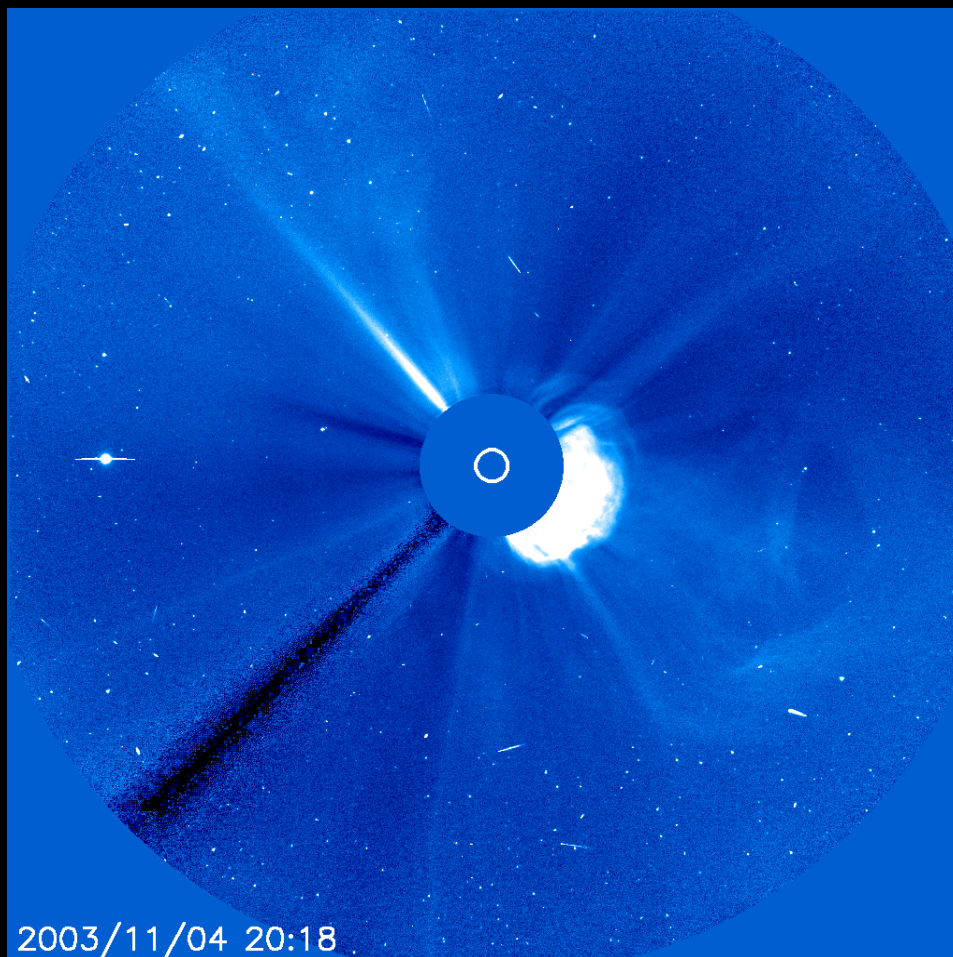




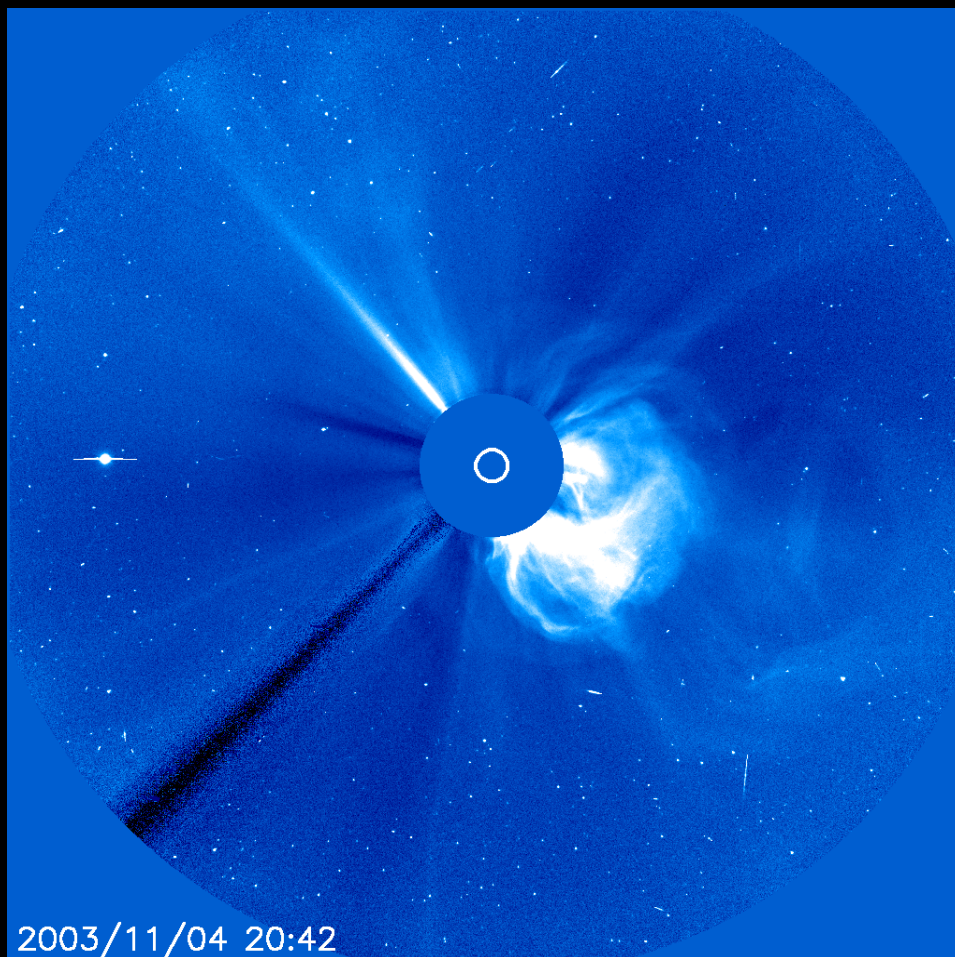




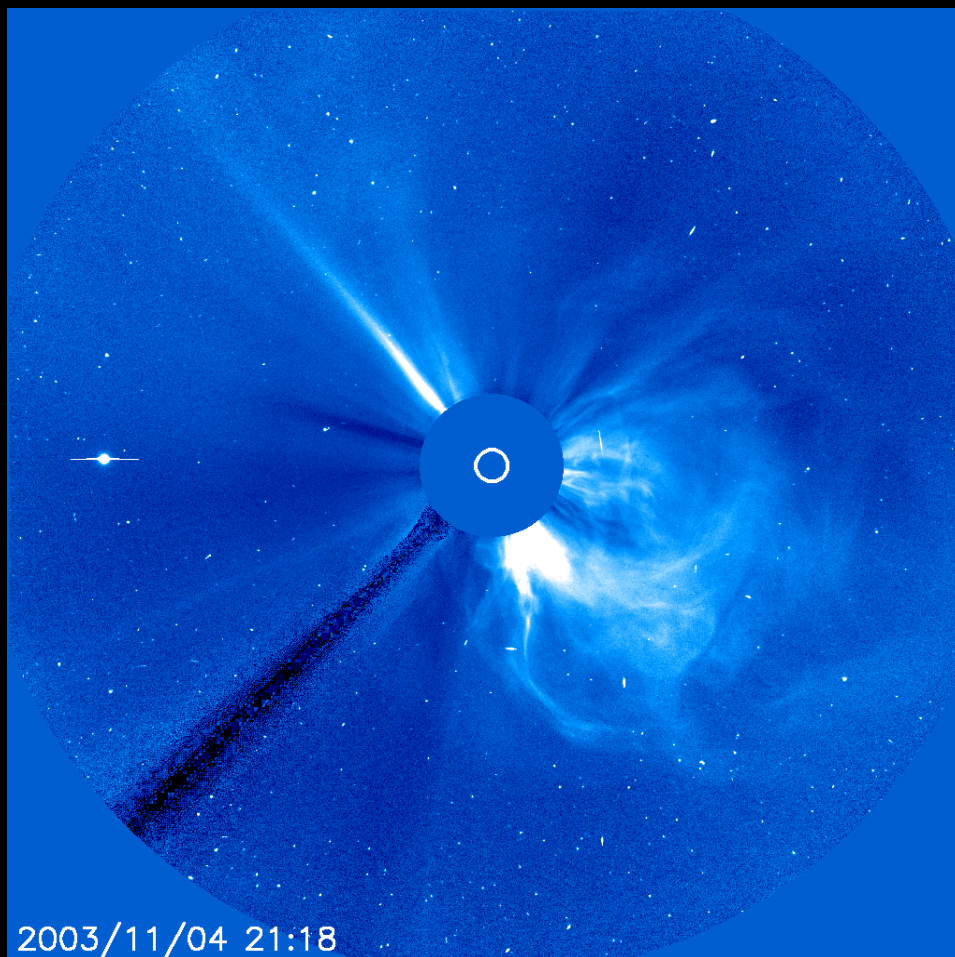
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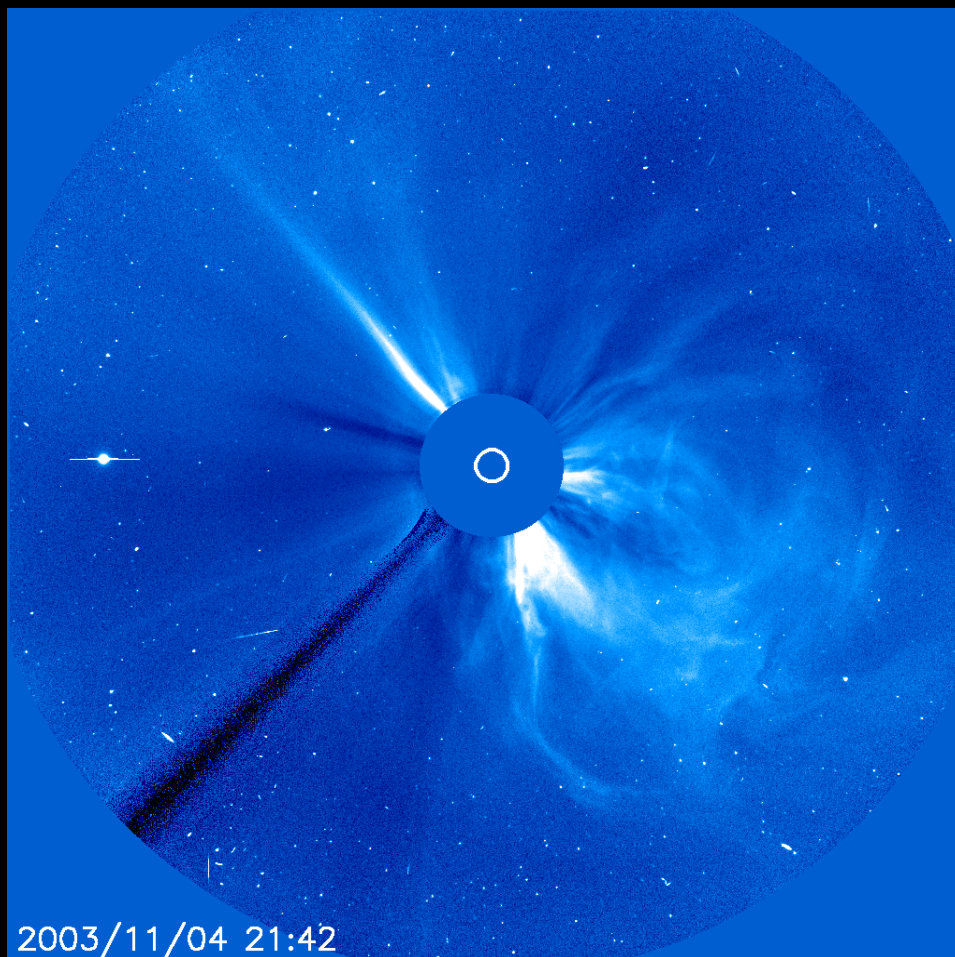


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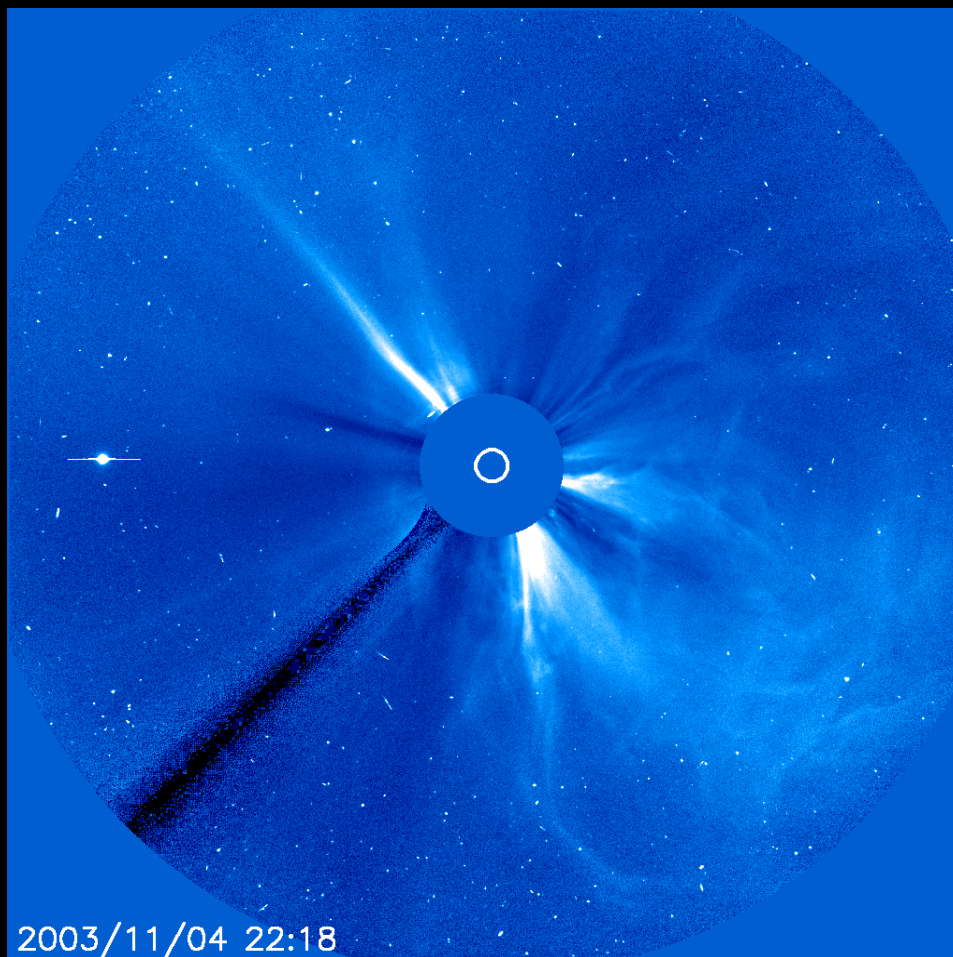


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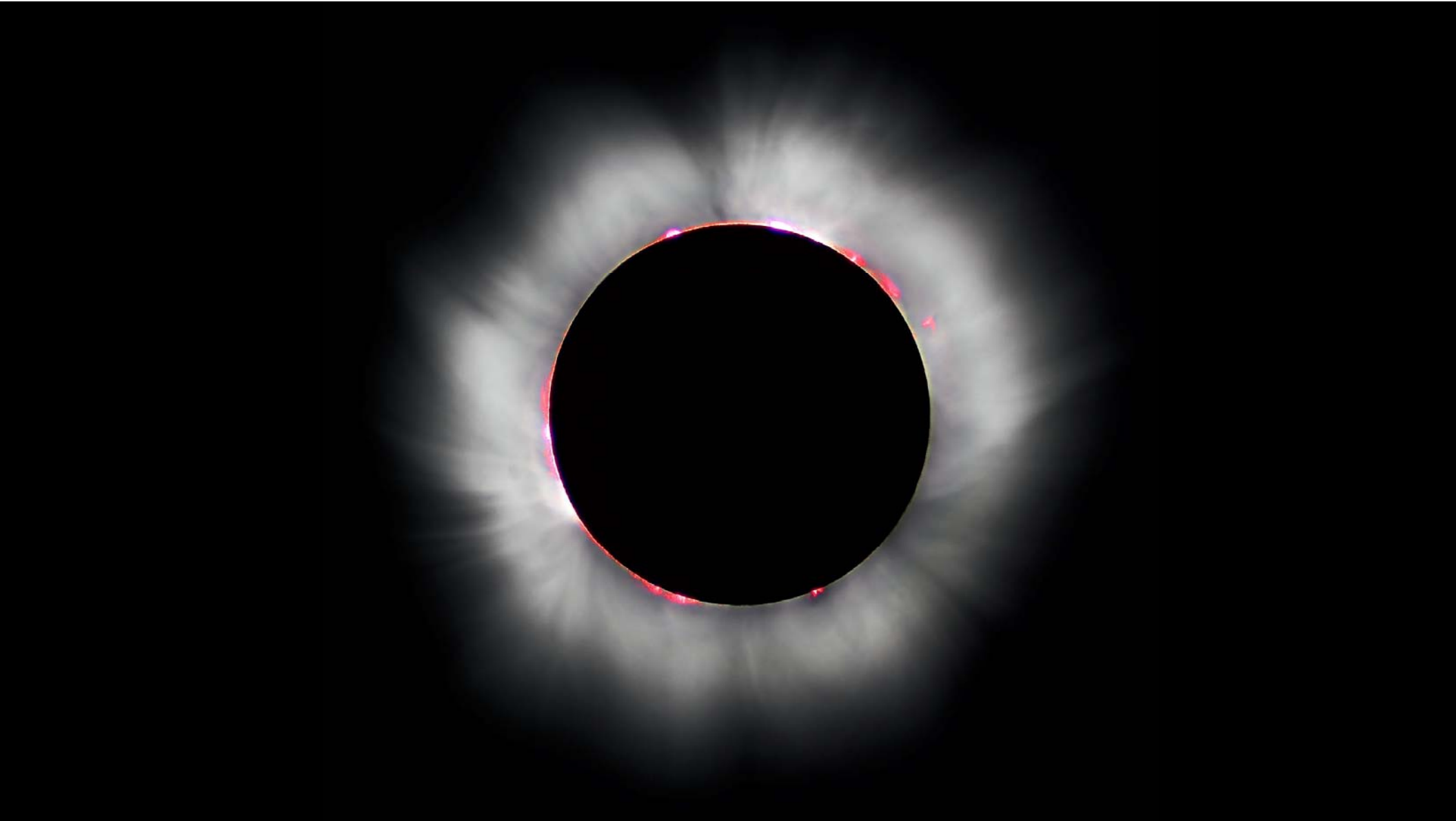




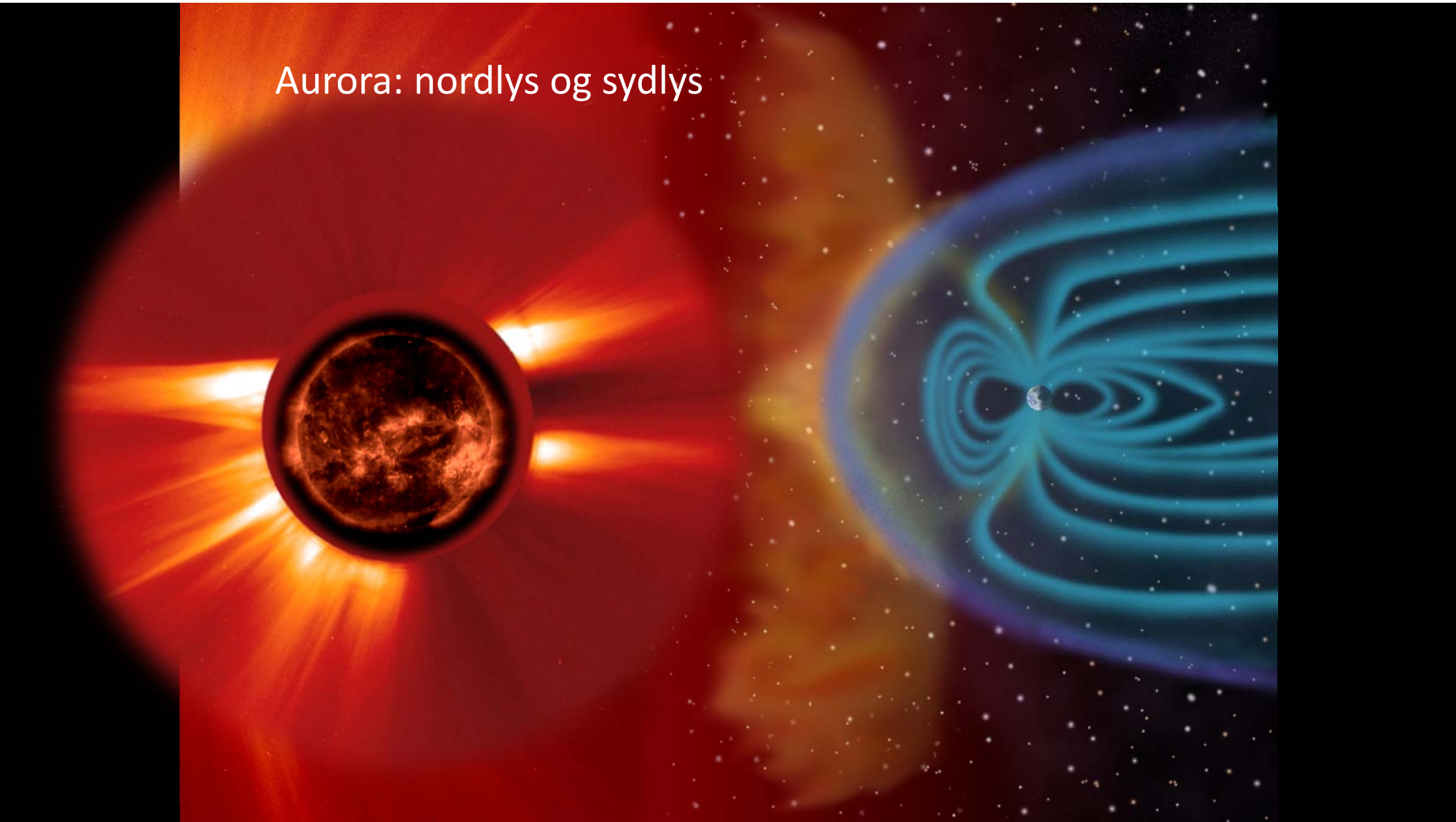
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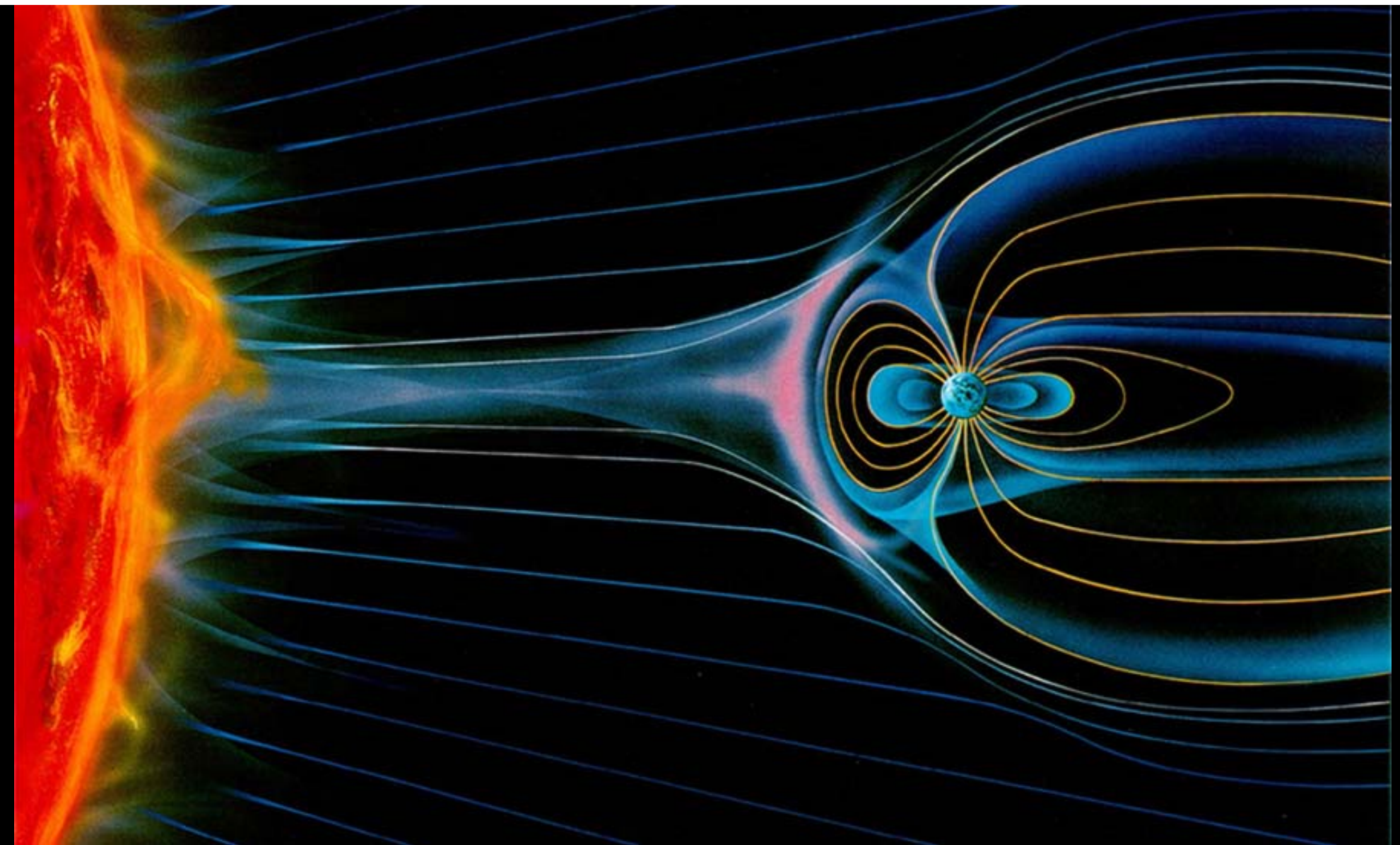


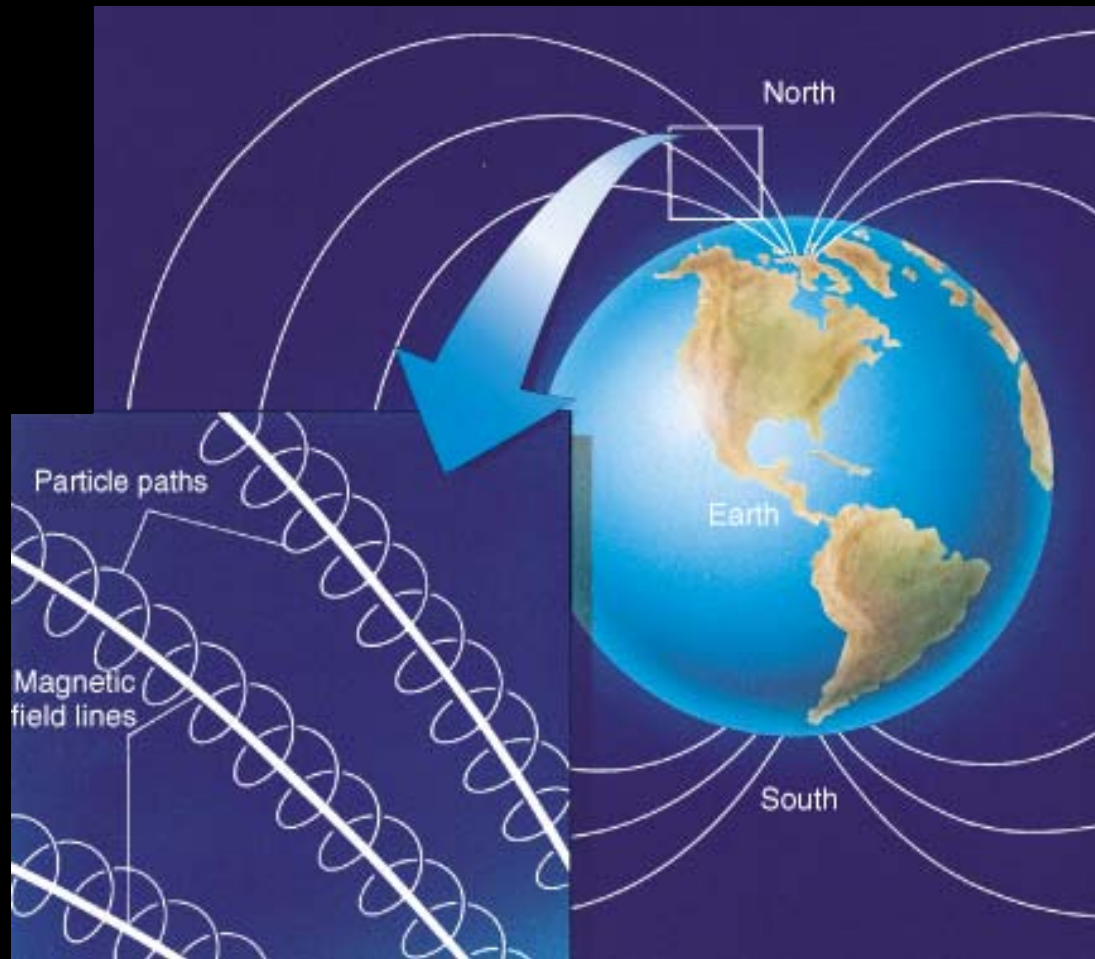
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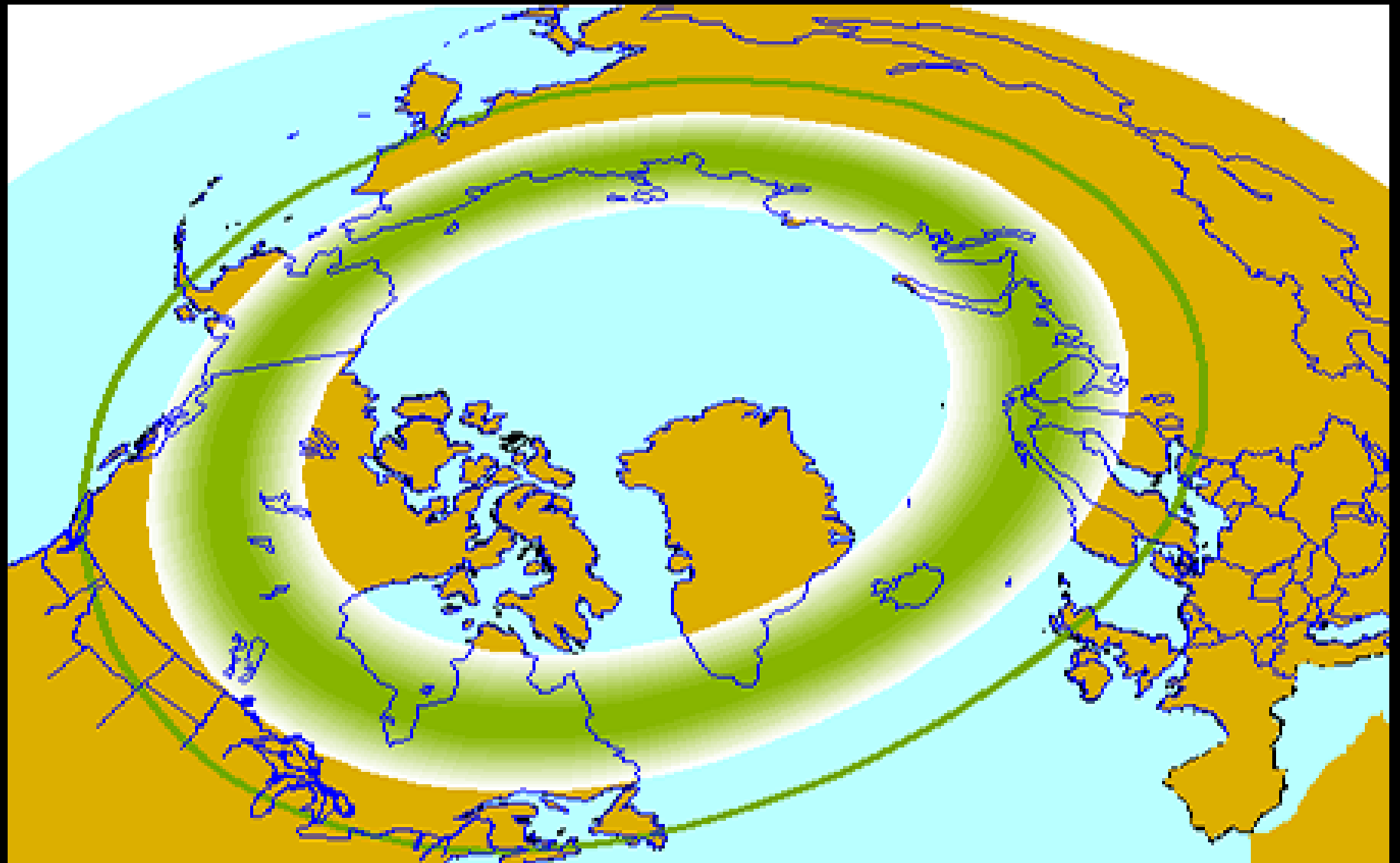


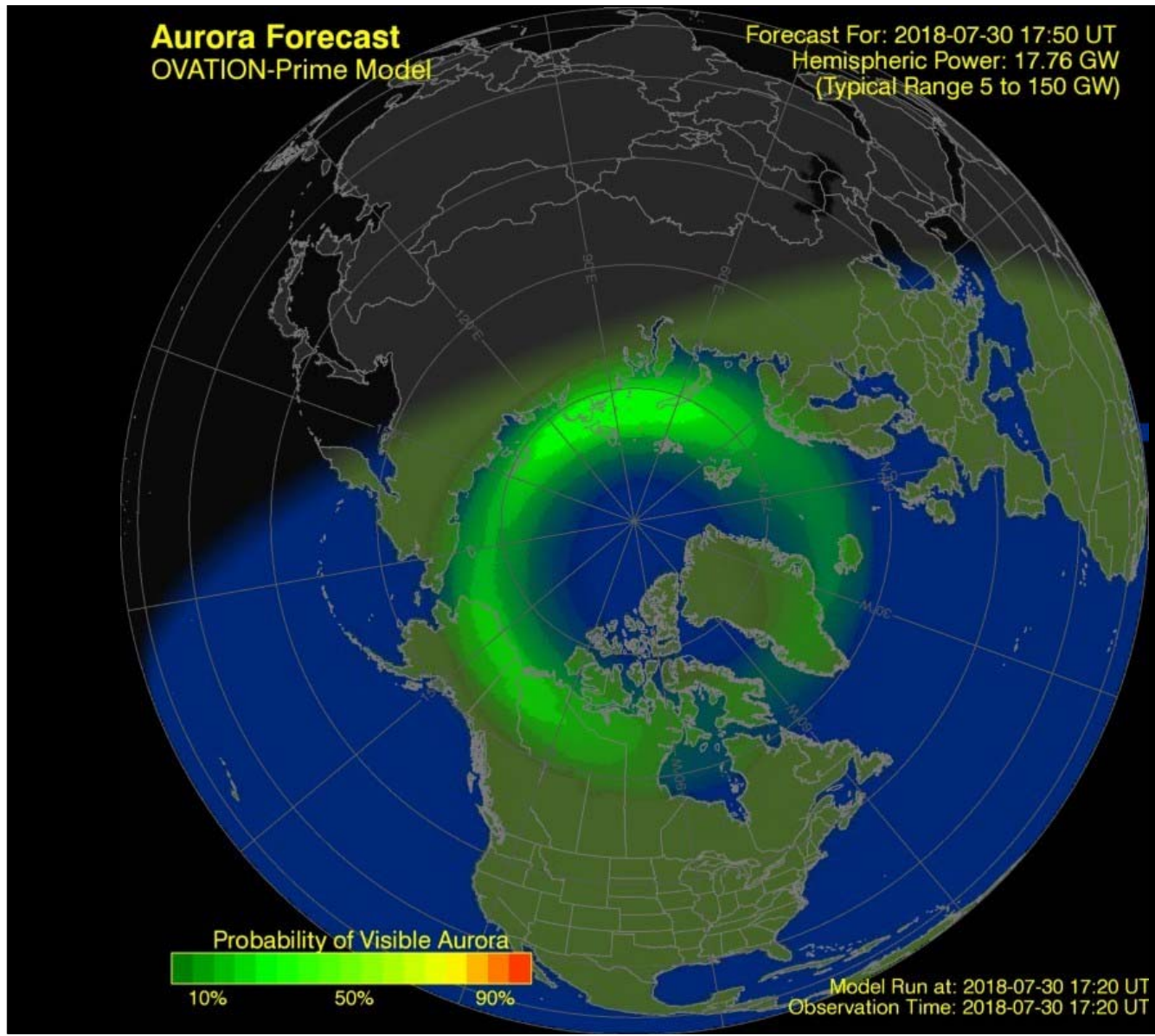
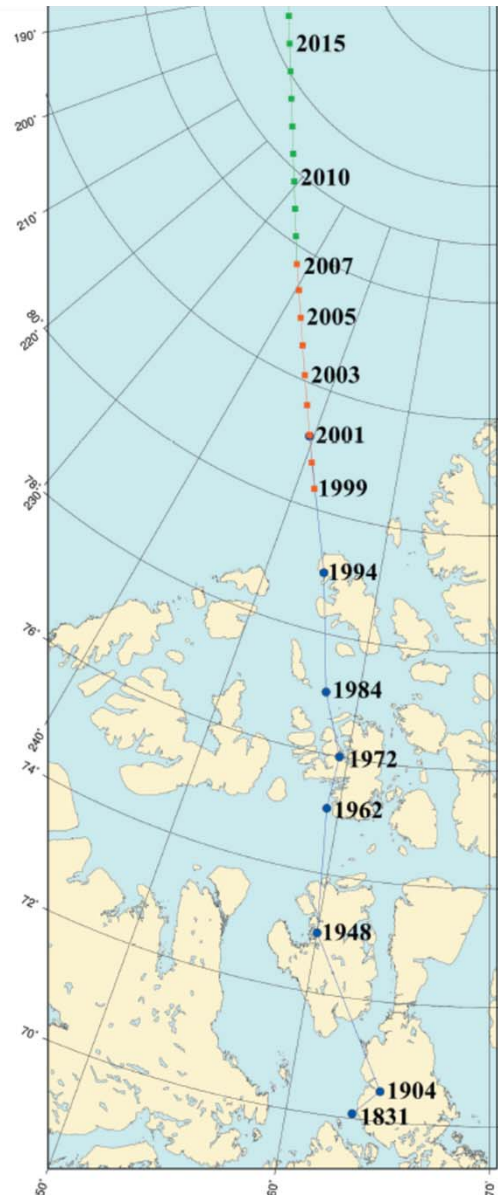
Aurora: nordlys og sydlis





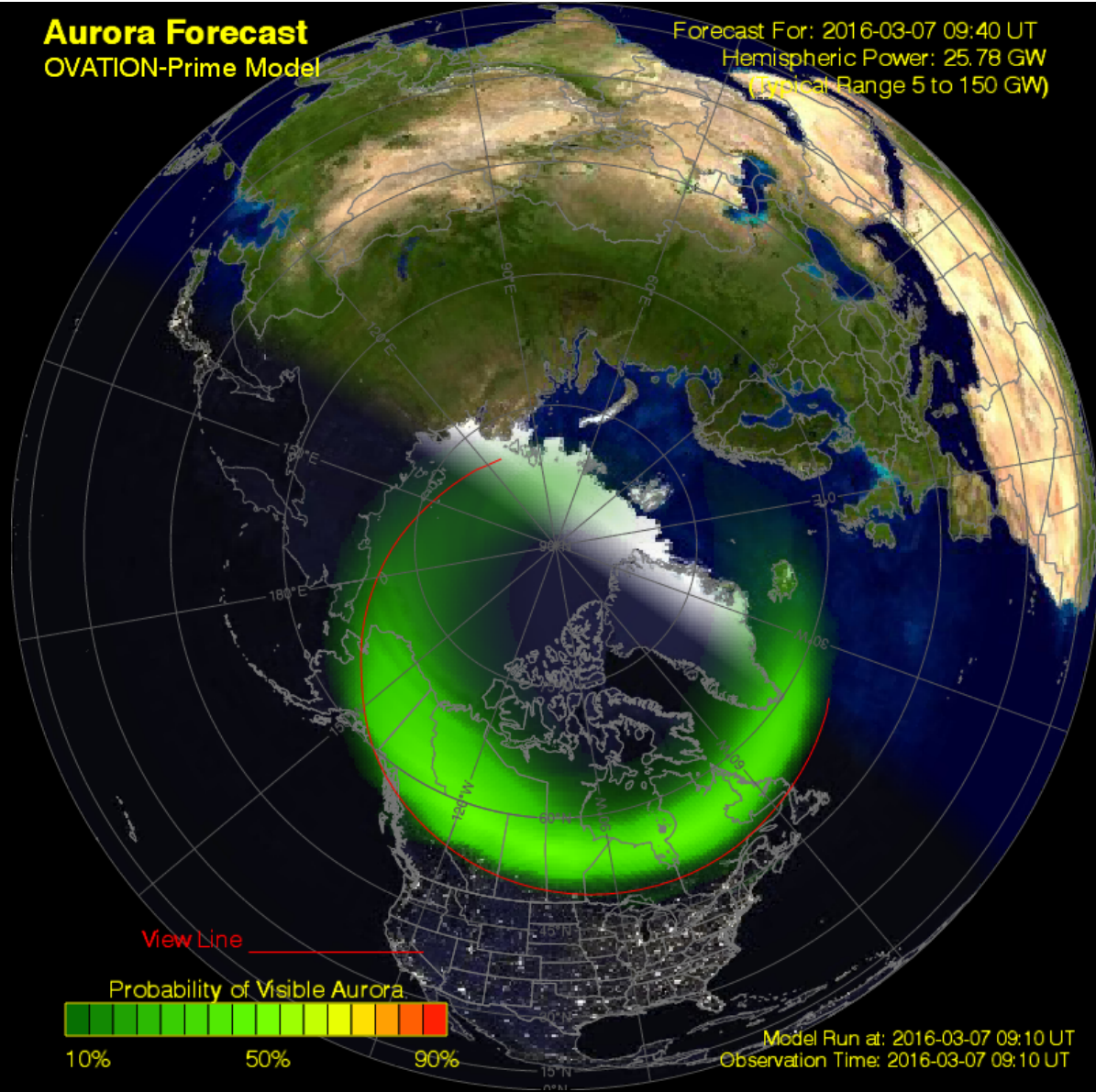






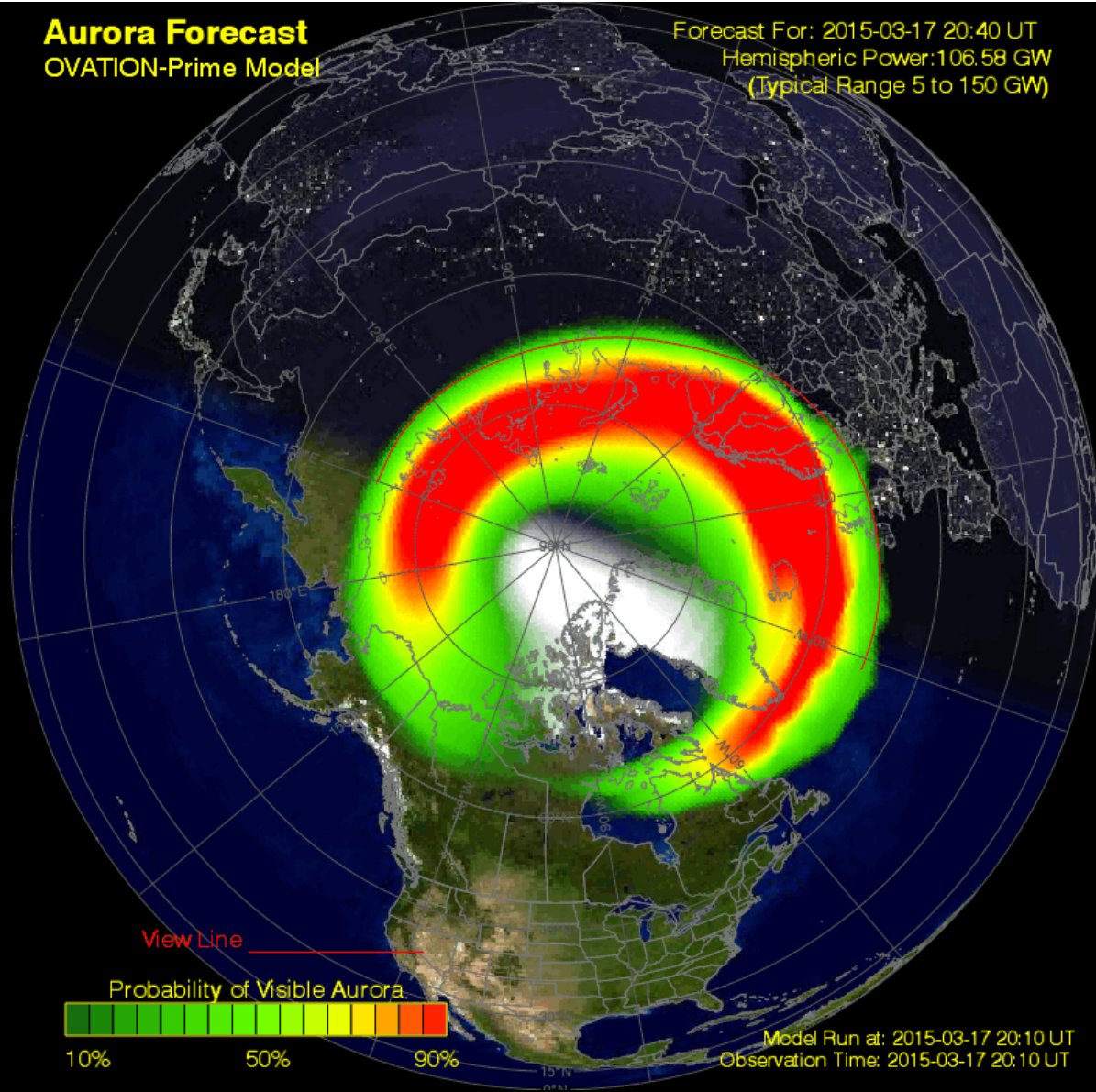
Aurora Forecast
OVATION-Prime Model

Forecast For: 2016-03-07 09:40 UT
Hemispheric Power: 25.78 GW
(Typical Range 5 to 150 GW)



Aurora Forecast
OVATION-Prime Model

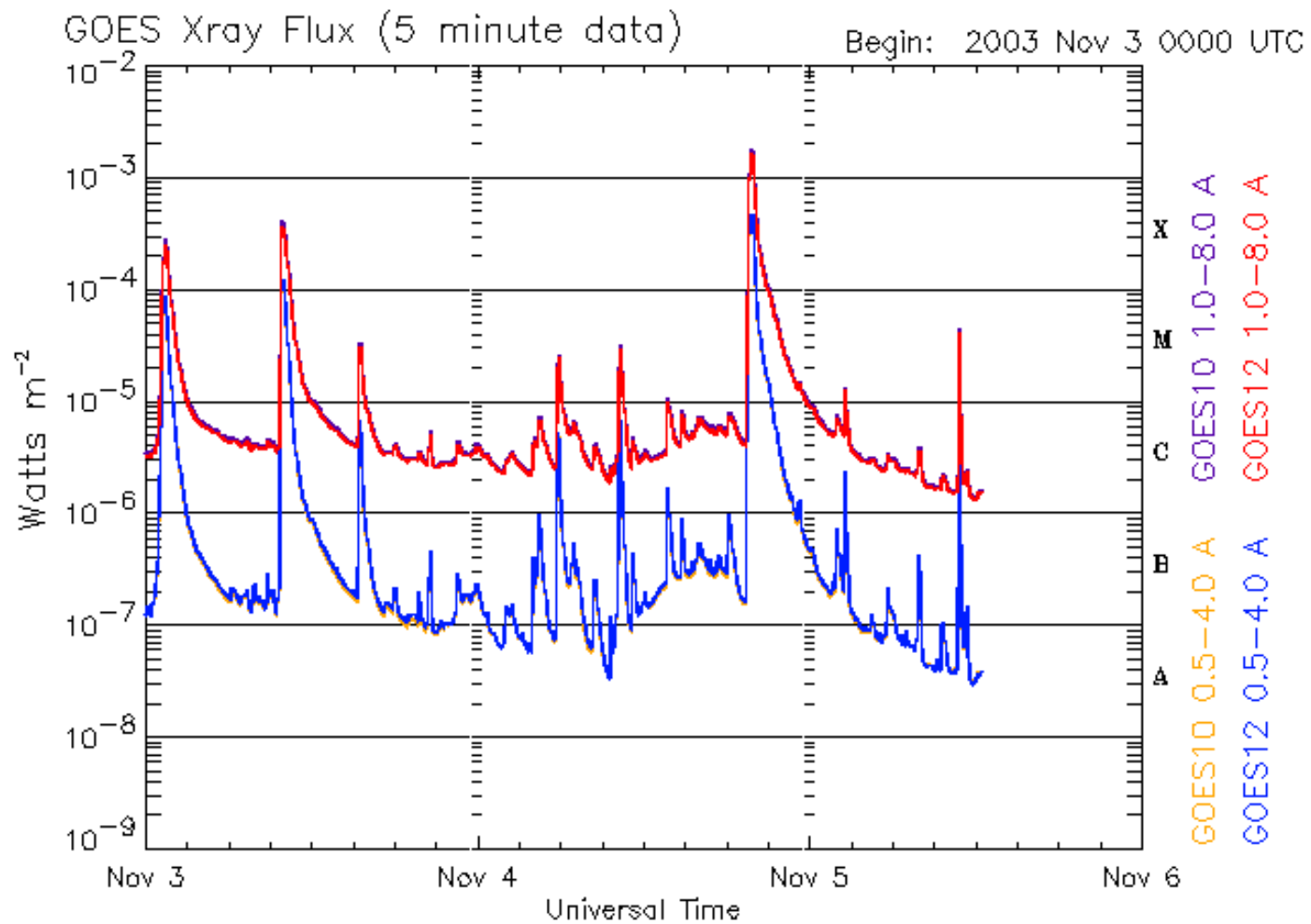
Forecast For: 2015-03-17 20:40 UT
Hemispheric Power: 106.58 GW
(Typical Range 5 to 150 GW)



Model Run at: 2015-03-17 20:10 UT
Observation Time: 2015-03-17 20:10 UT



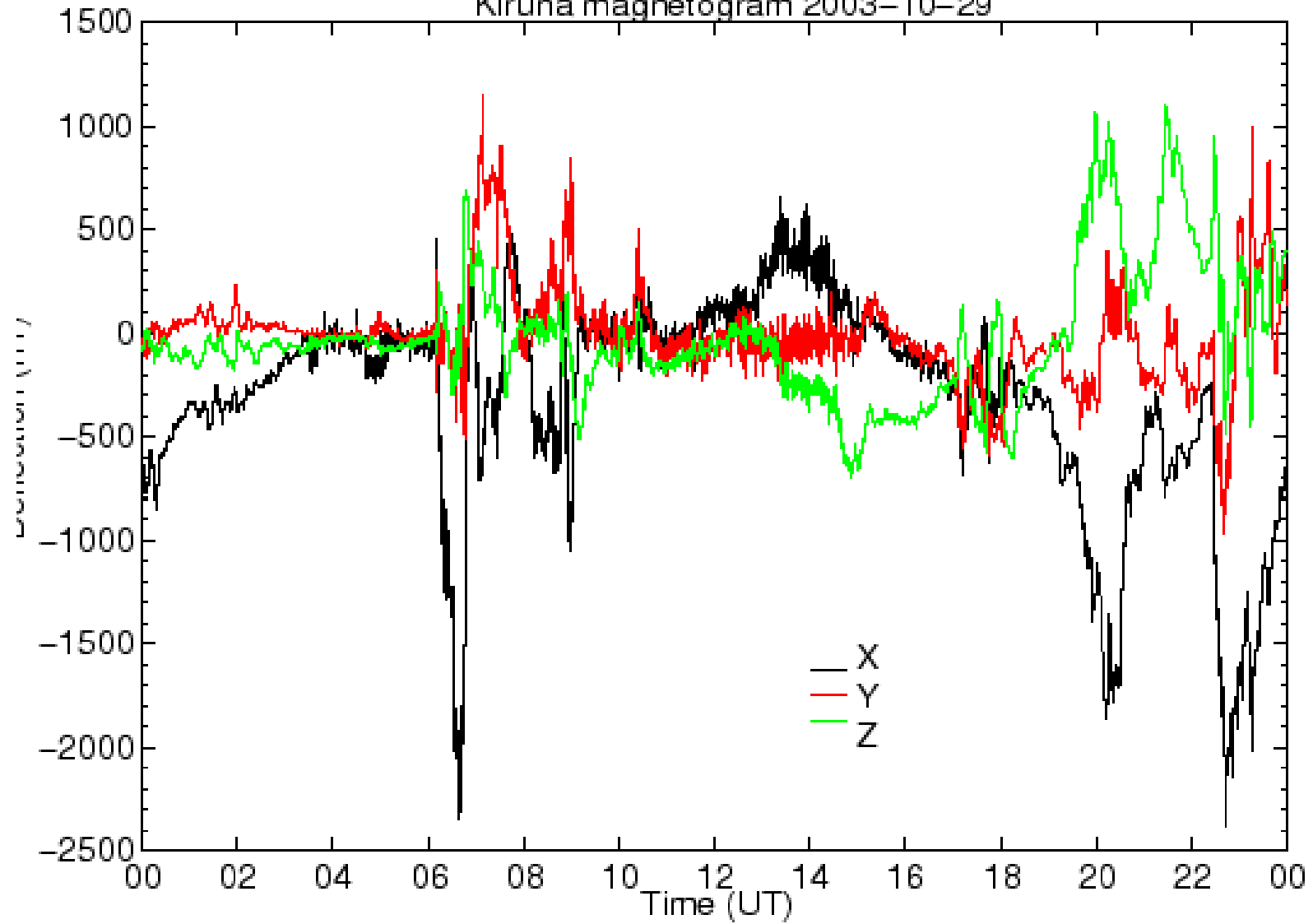




Updated 2003 Nov 5 12:36:04 UTC

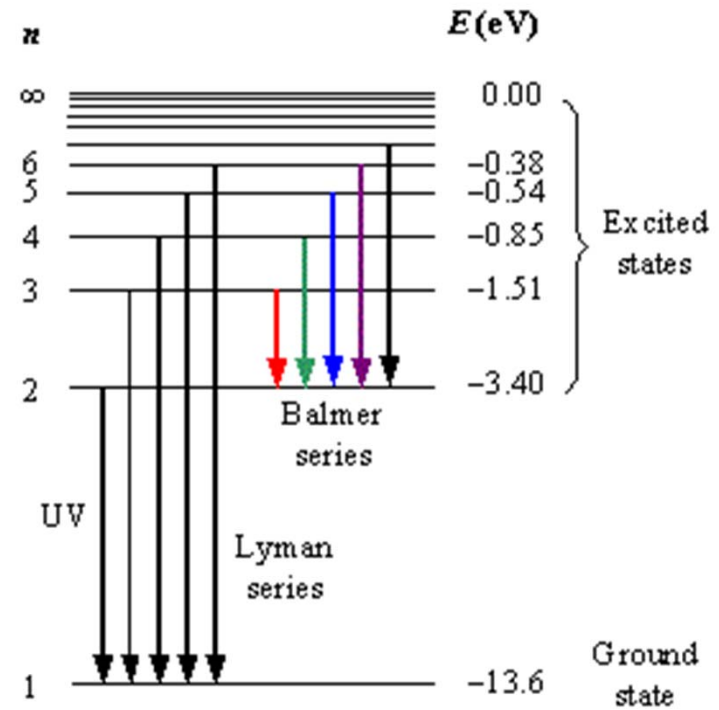
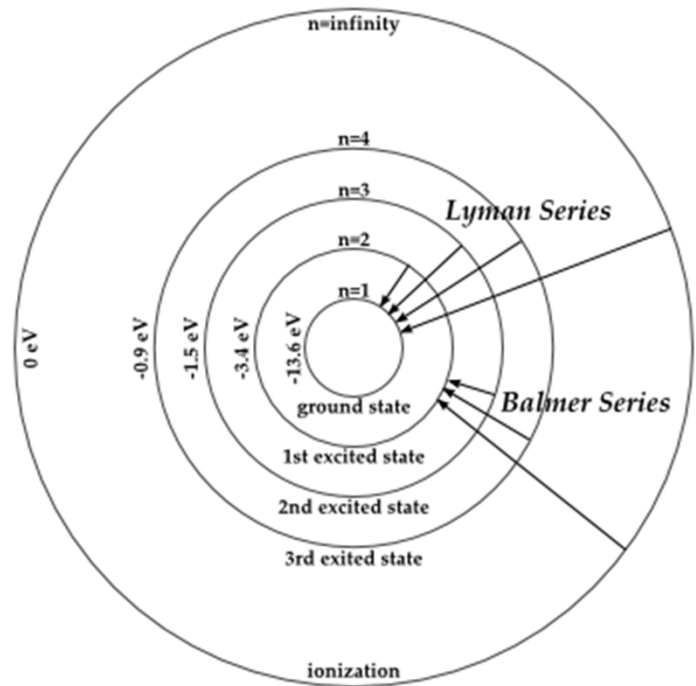
NOAA/SEC Boulder, CO USA

Kiruna magnetogram 2003-10-29

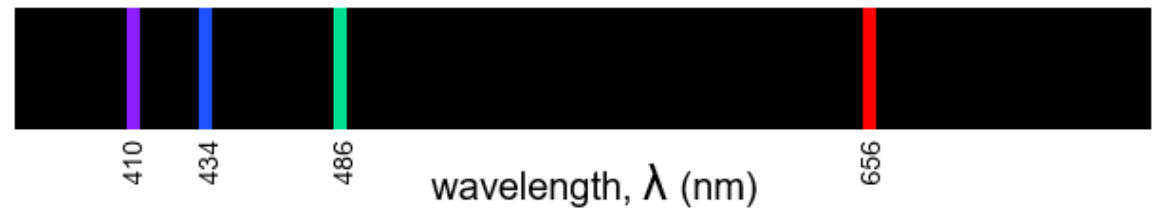




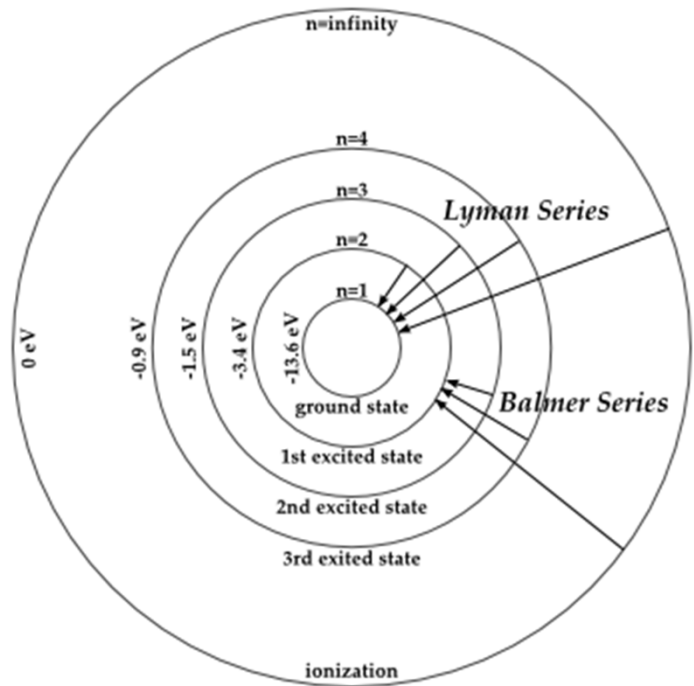
Hydrogen atom



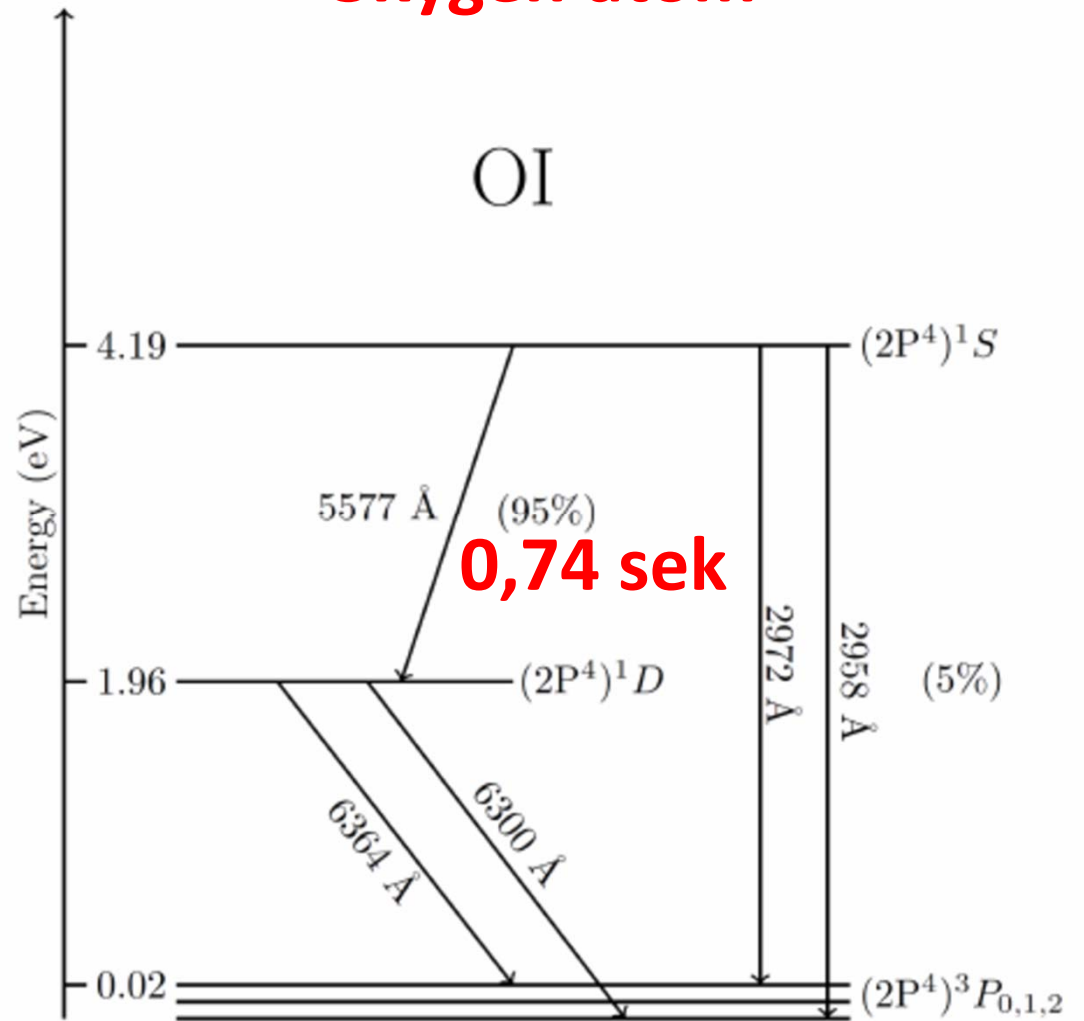
Hydrogen Emission Spectrum

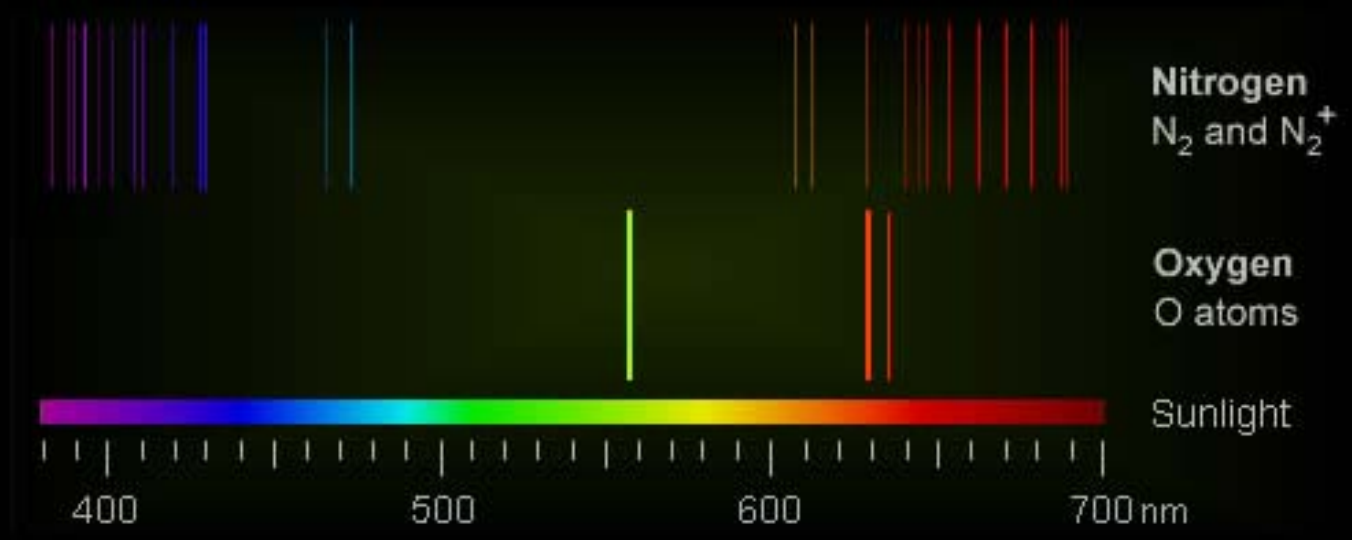


Hydrogen atom



Oxygen atom









80 km



MACIEJ WINIARCZYK ©2014











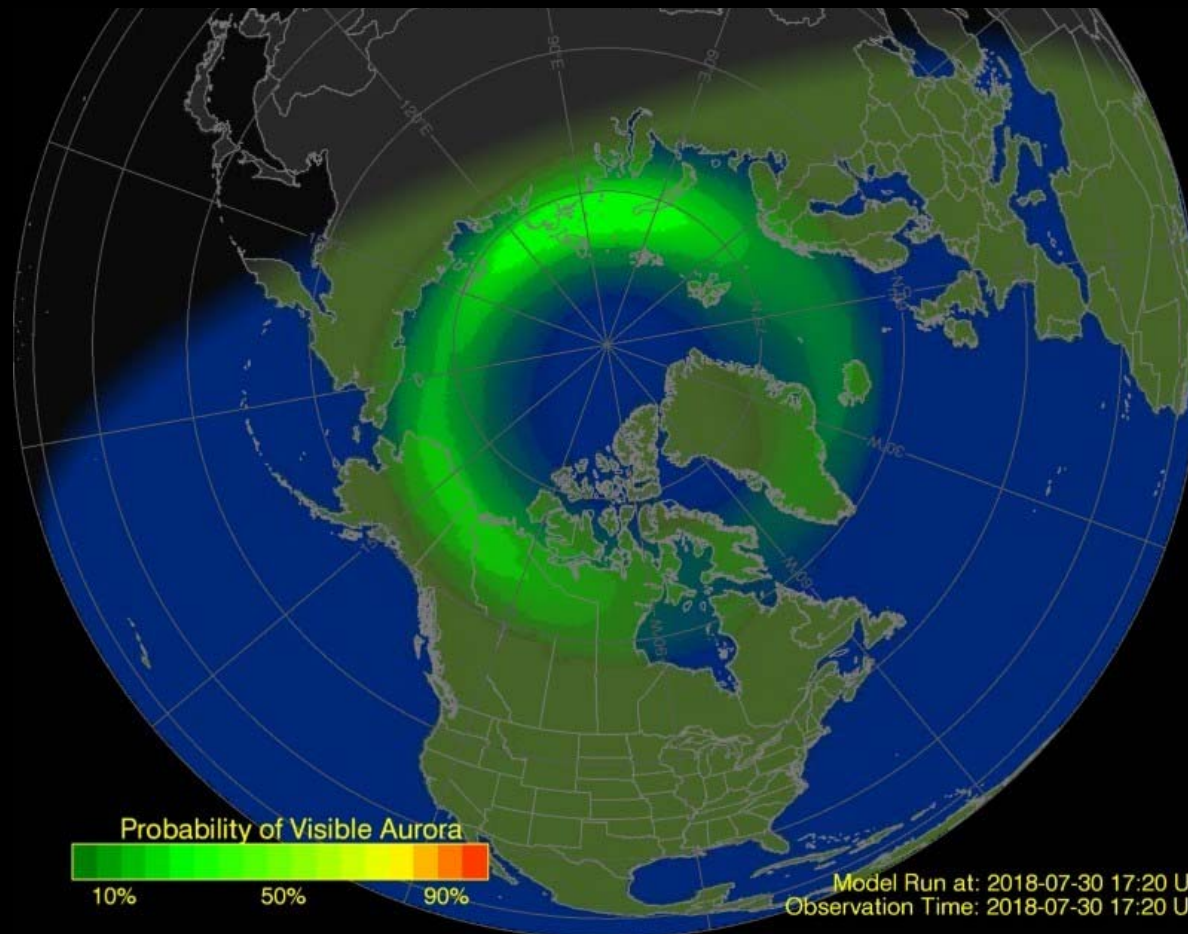




Aurora Forecast
OVATION-Prime Model

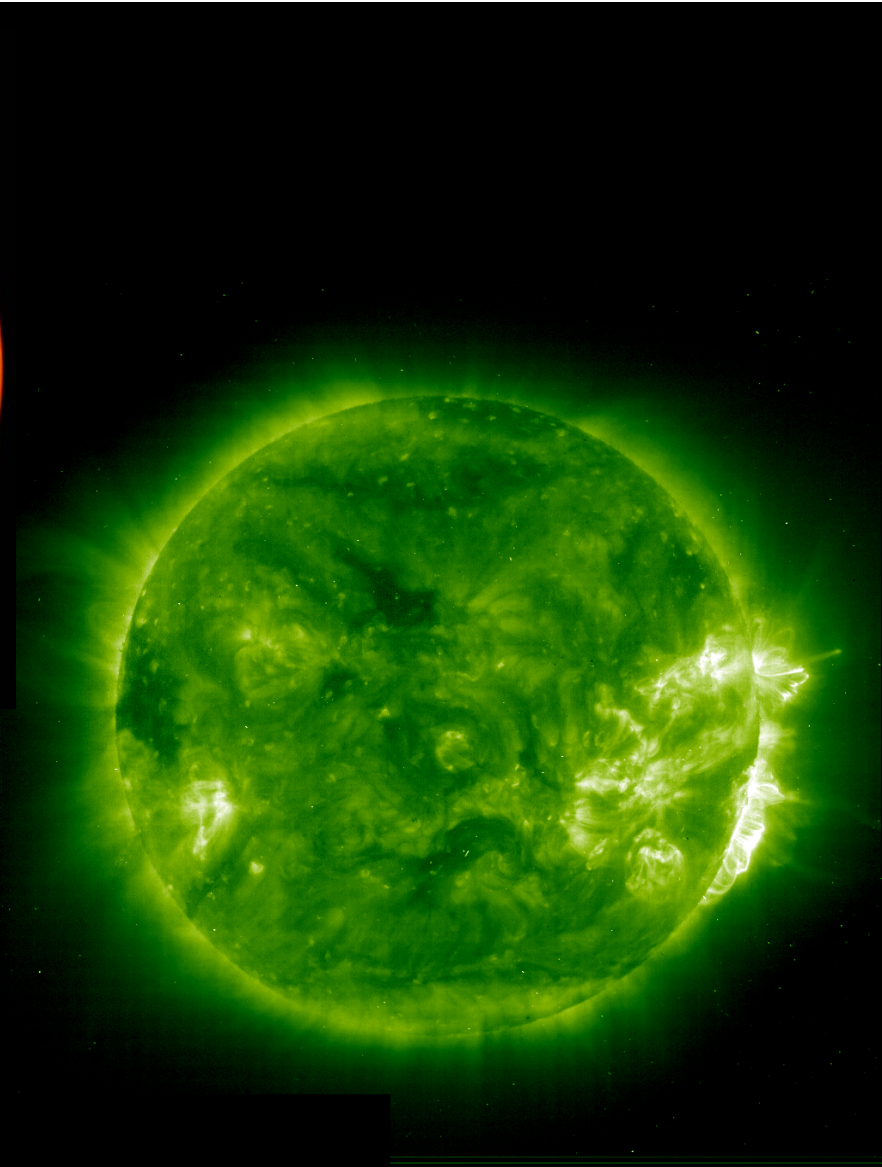
Forecast For: 2018-07-30 17:50 UT
Hemispheric Power: 17.76 GW
(Typical Range 5 to 150 GW)

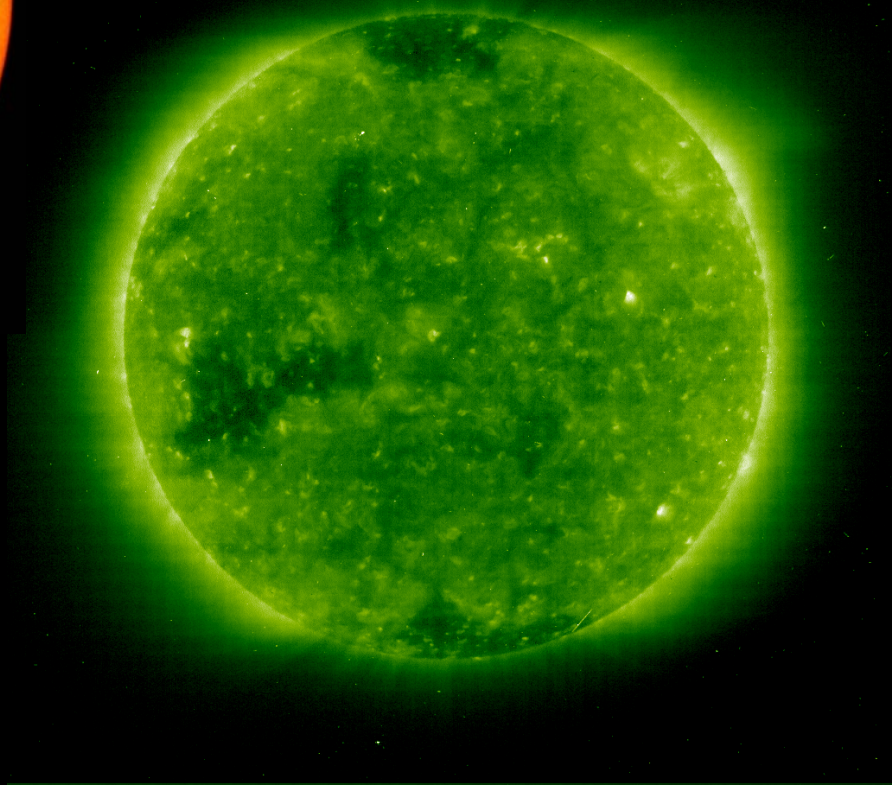
<http://www.gi.alaska.edu/auroraforecast>

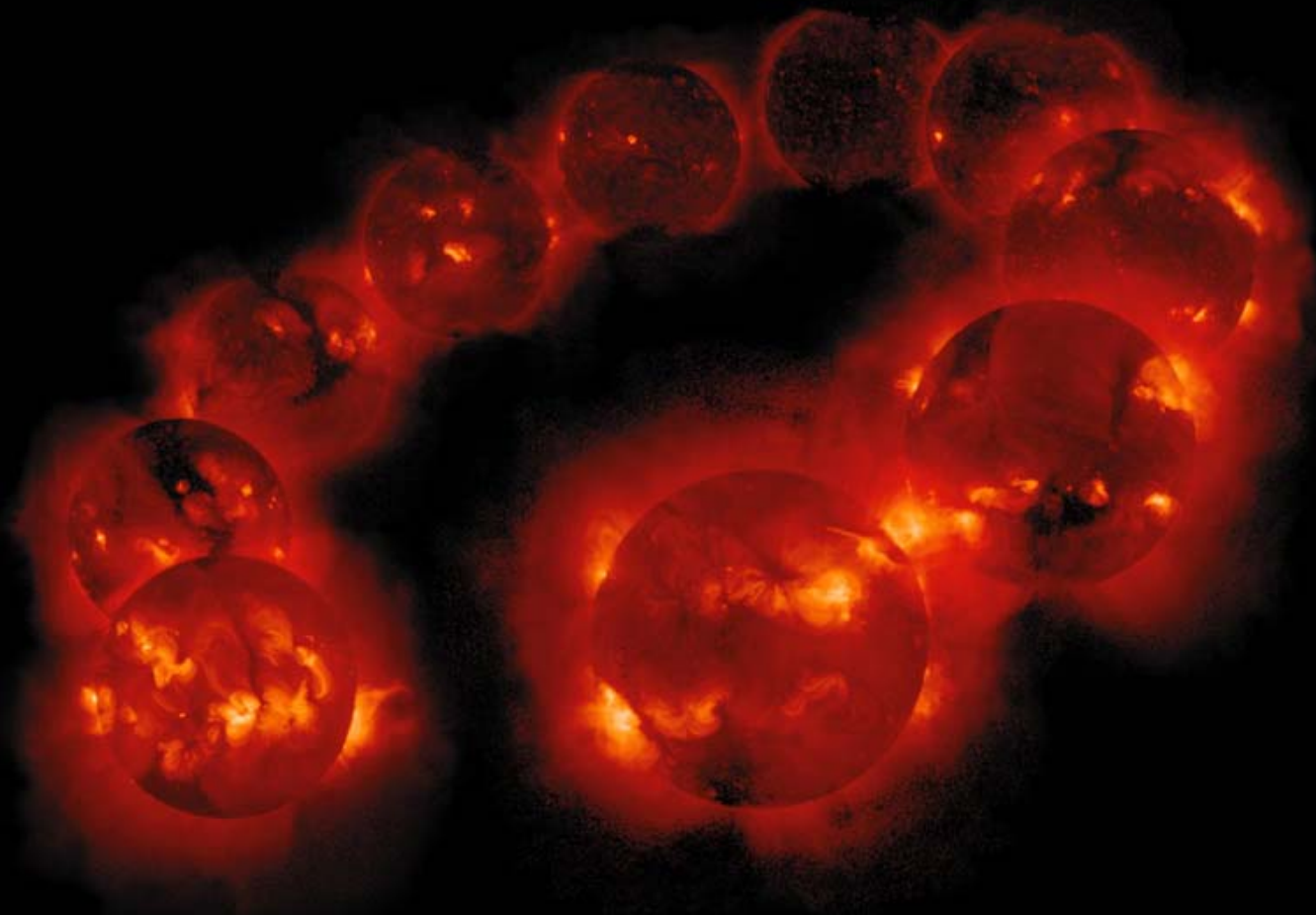




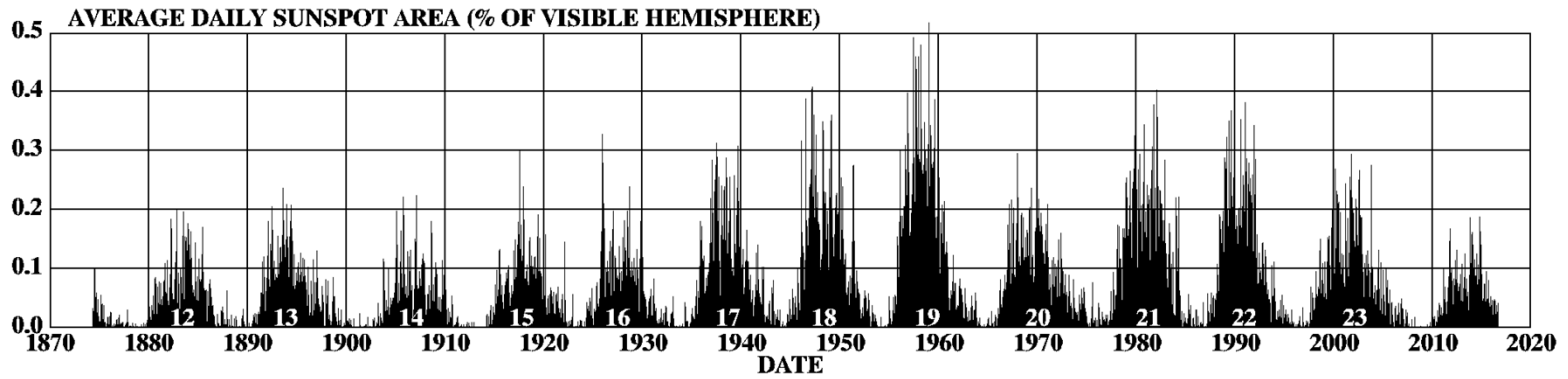
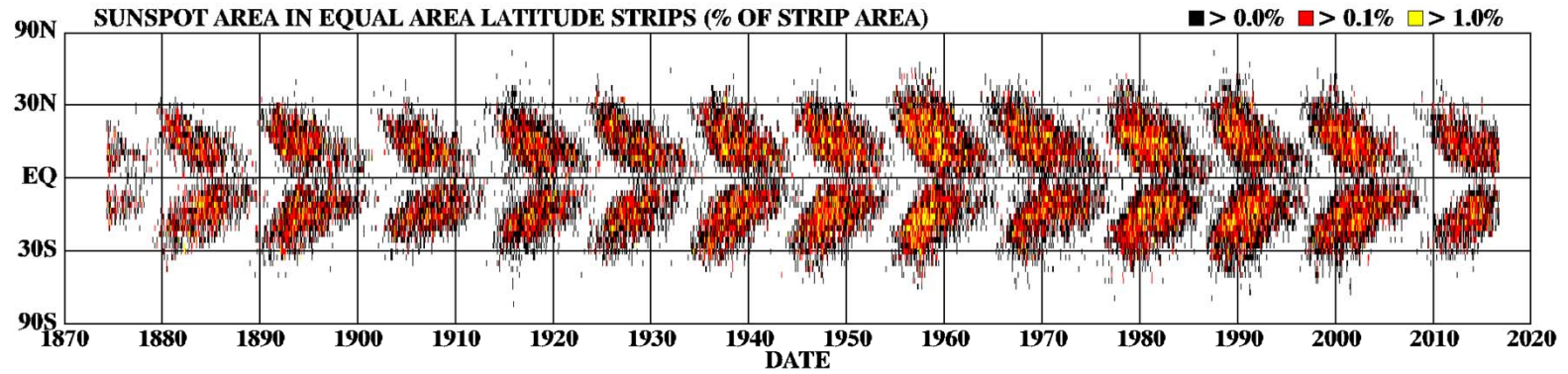
2003/10/28 06:24







DAILY SUNSPOT AREA AVERAGED OVER INDIVIDUAL SOLAR ROTATIONS

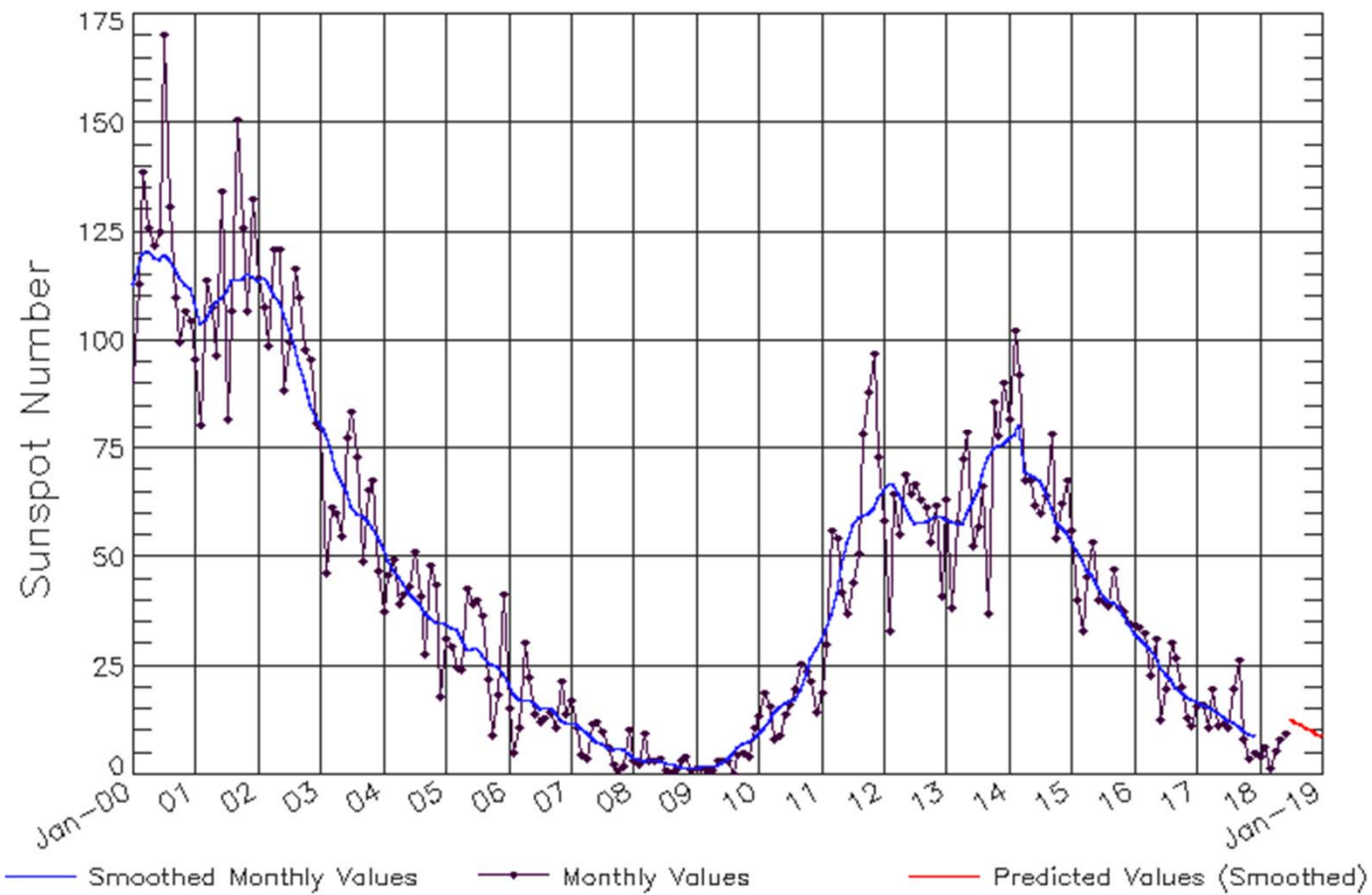


<http://solarscience.msfc.nasa.gov/>

HATHAWAY NASA/ARC 2016/10

ISES Solar Cycle Sunspot Number Progression

Observed data through Jun 2018



Updated 2018 Jul 9

NOAA/SWPC Boulder, CO USA

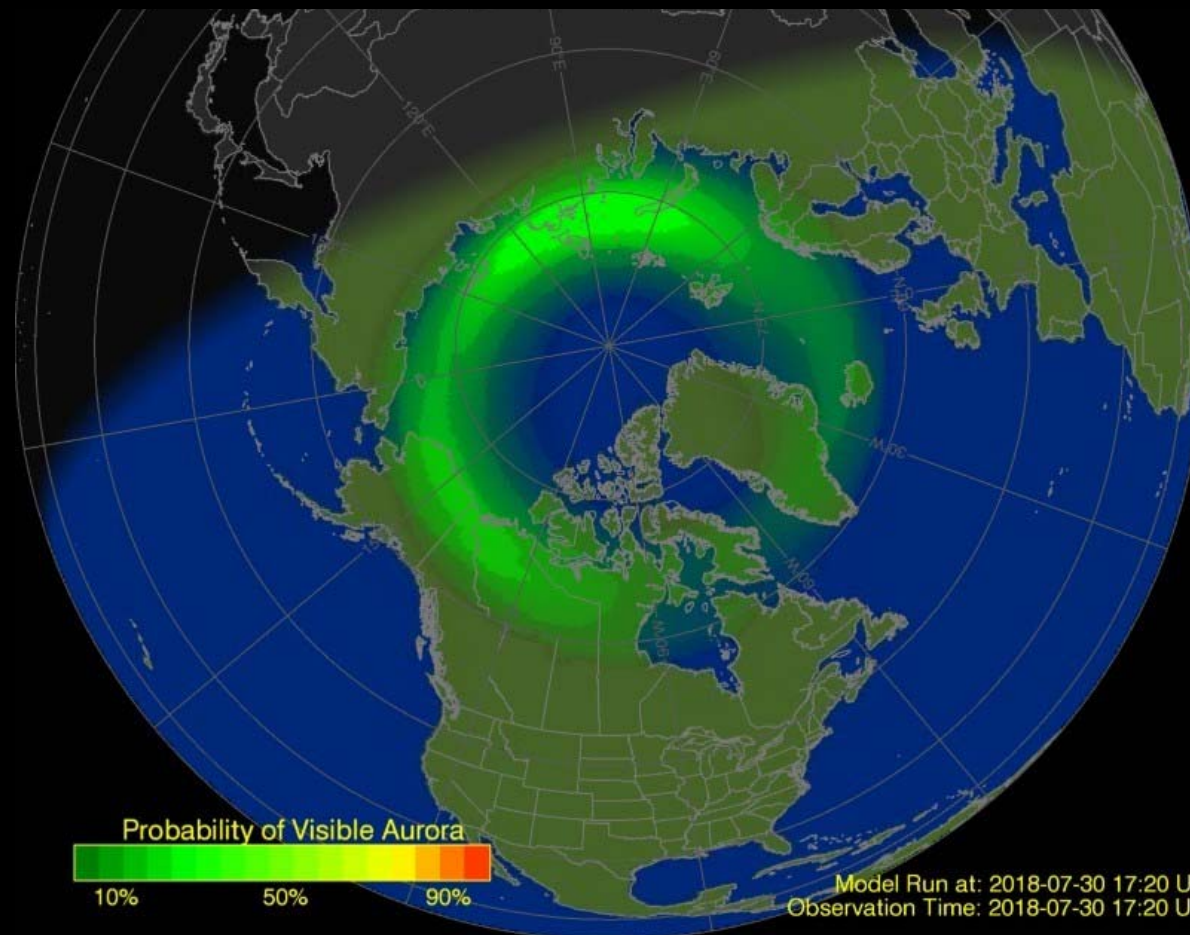


STELLAR ASTROPHYSICS CENTRE

Aurora Forecast
OVATION-Prime Model

Forecast For: 2018-07-30 17:50 UT
Hemispheric Power: 17.76 GW
(Typical Range 5 to 150 GW)

<http://www.gi.alaska.edu/auroraforecast>





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Nordlys og midnatssol

Hans Kjeldsen
Aarhus Universitet



STELLAR ASTROPHYSICS CENTRE