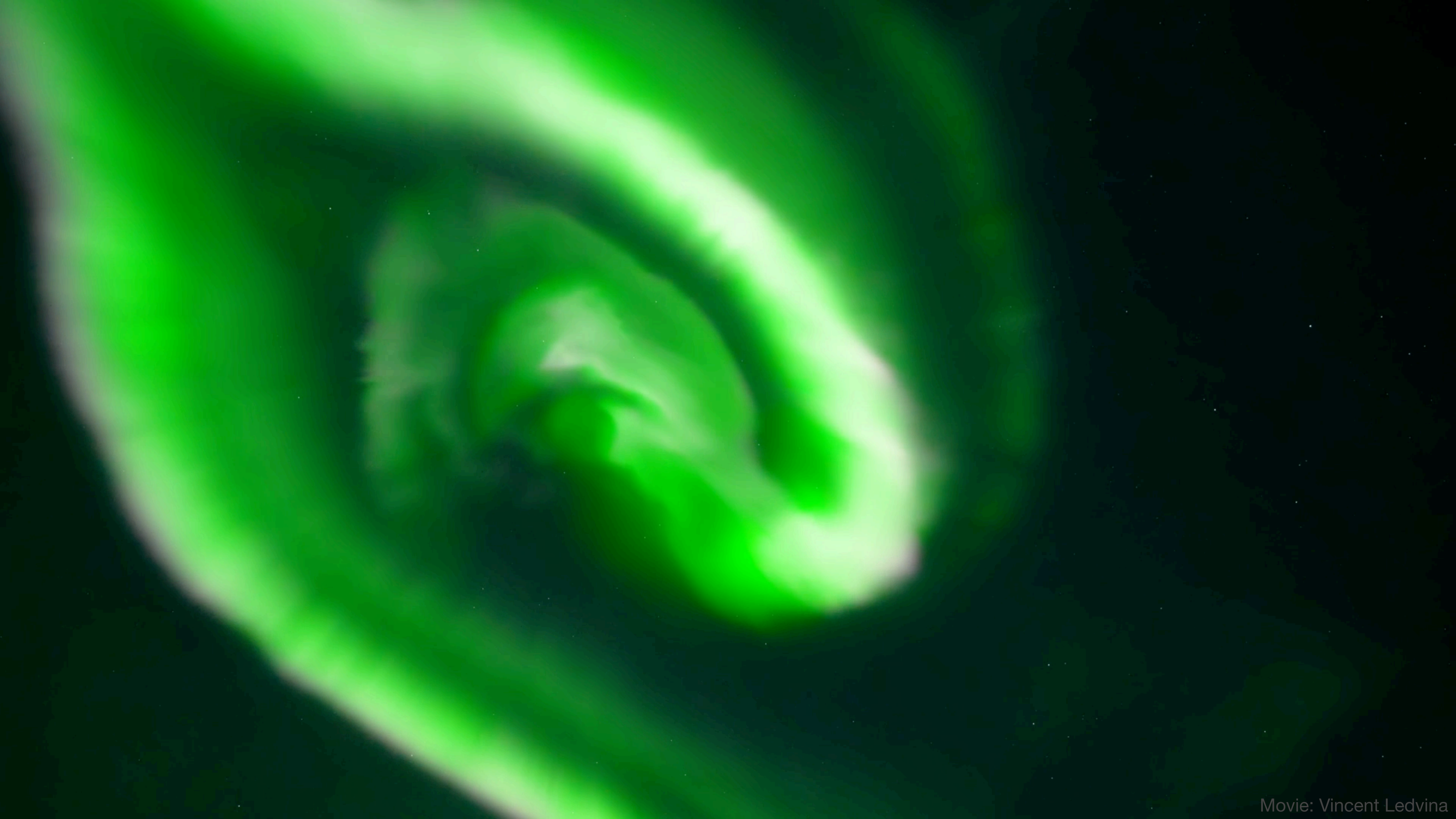


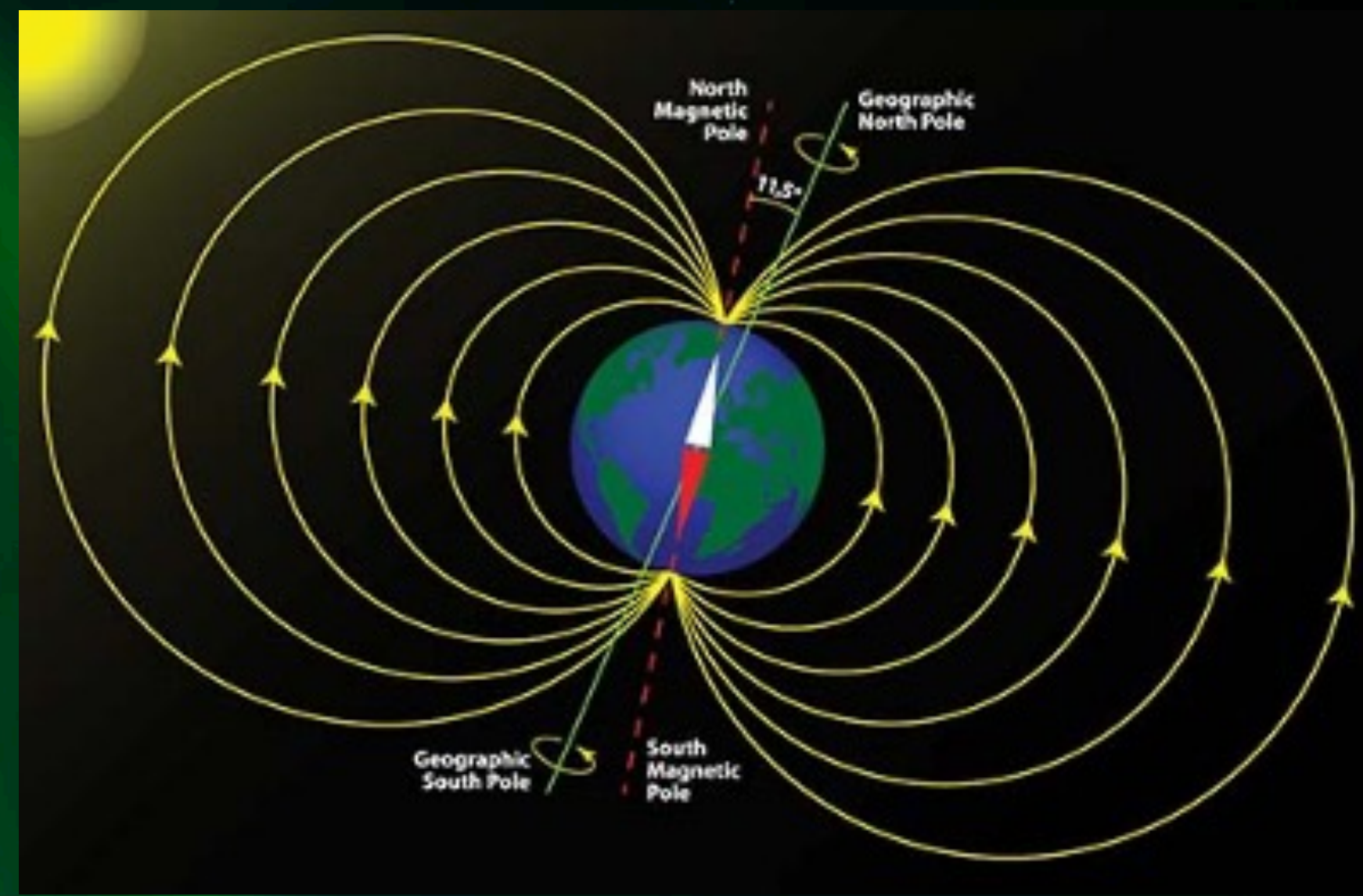
Observing Space

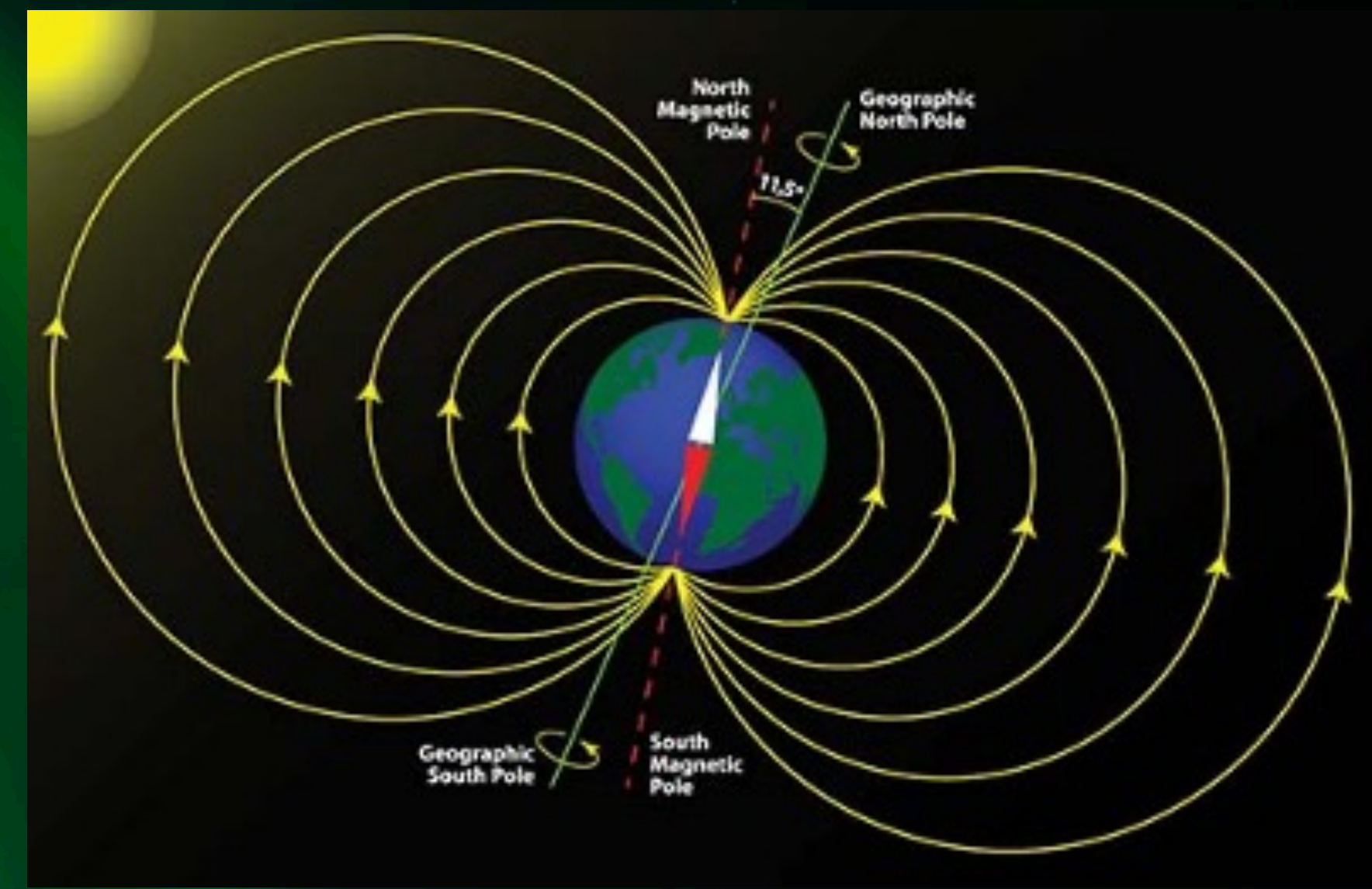
How to study our home in the solar system

Theresa Rexer, PhD

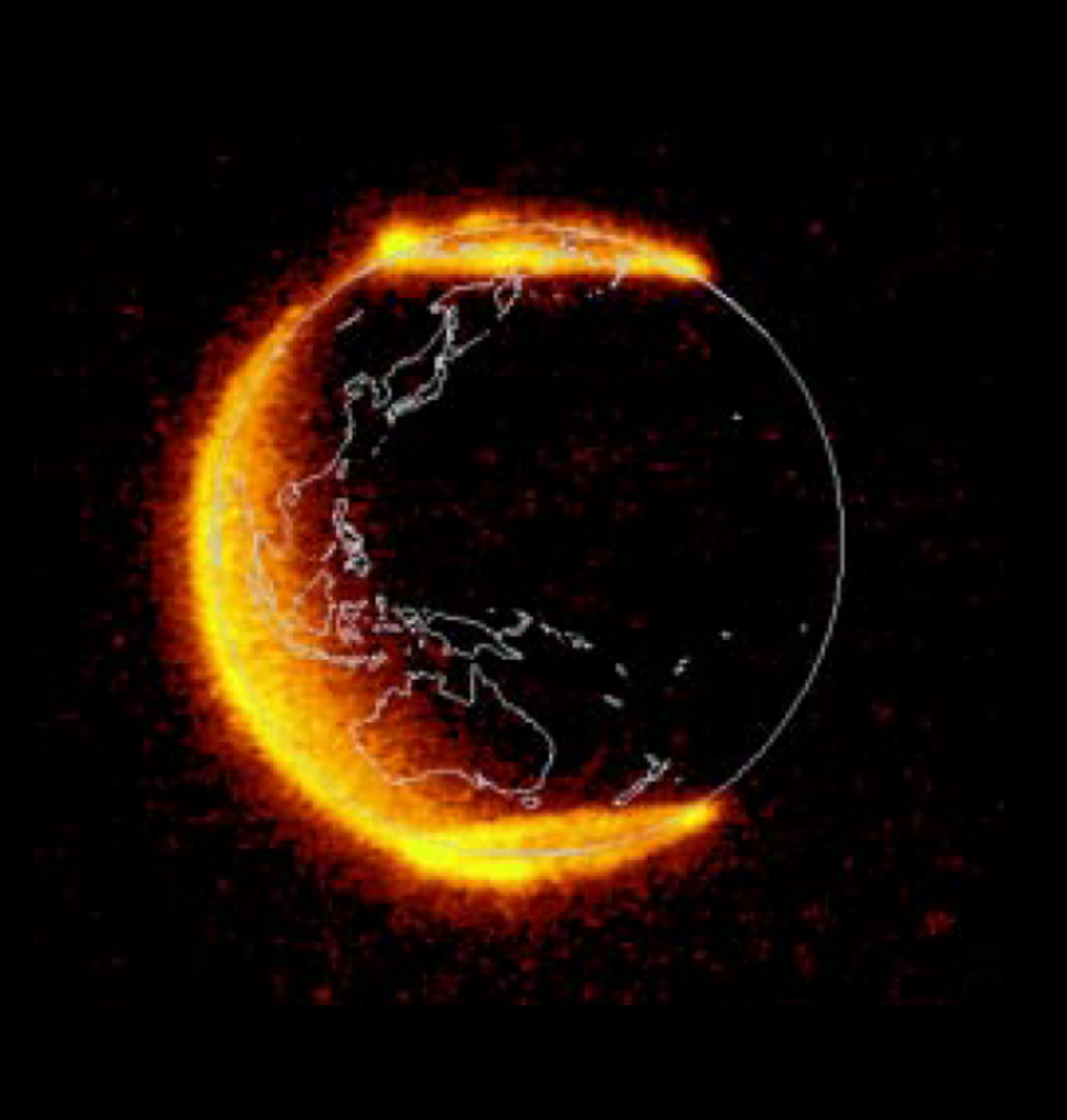


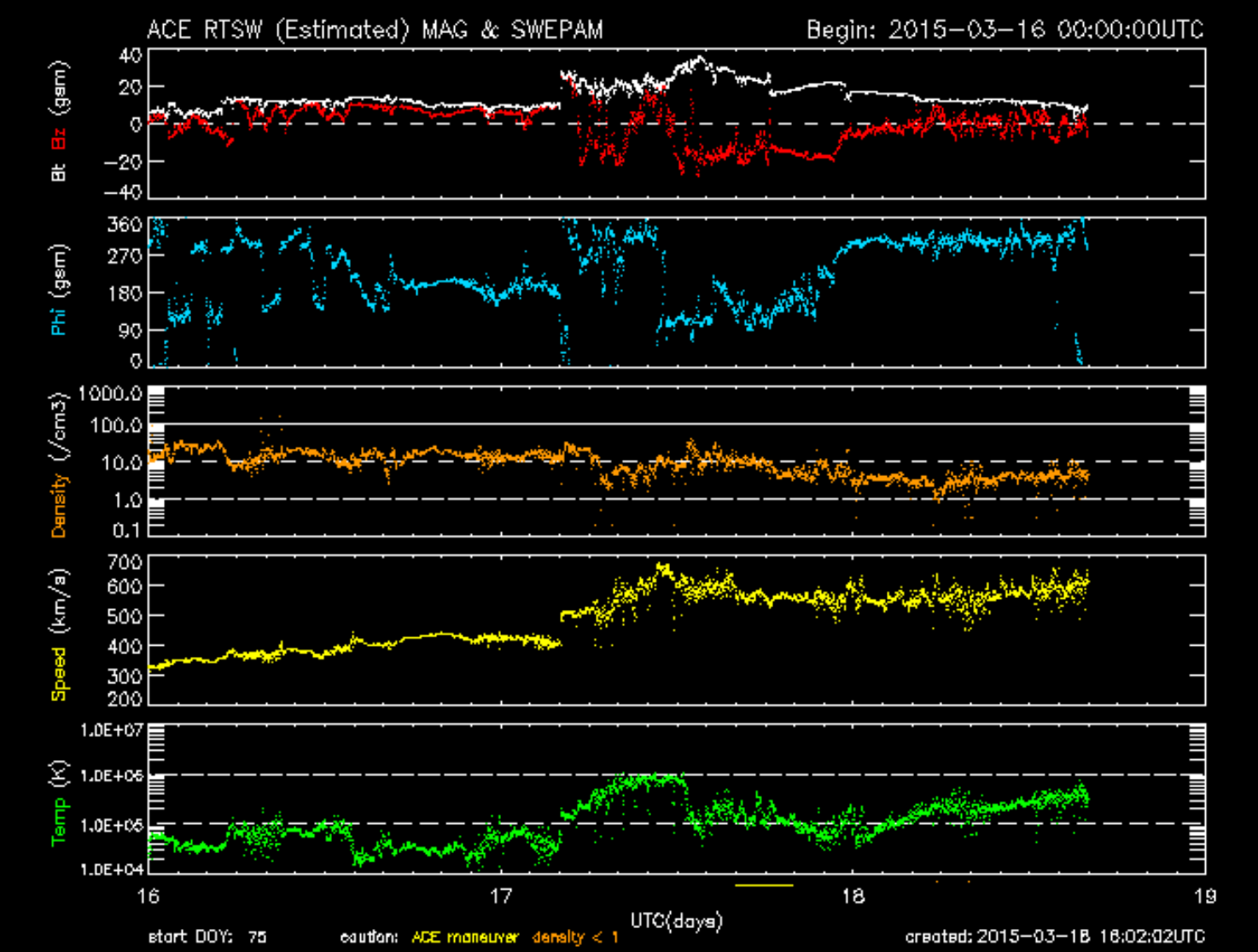
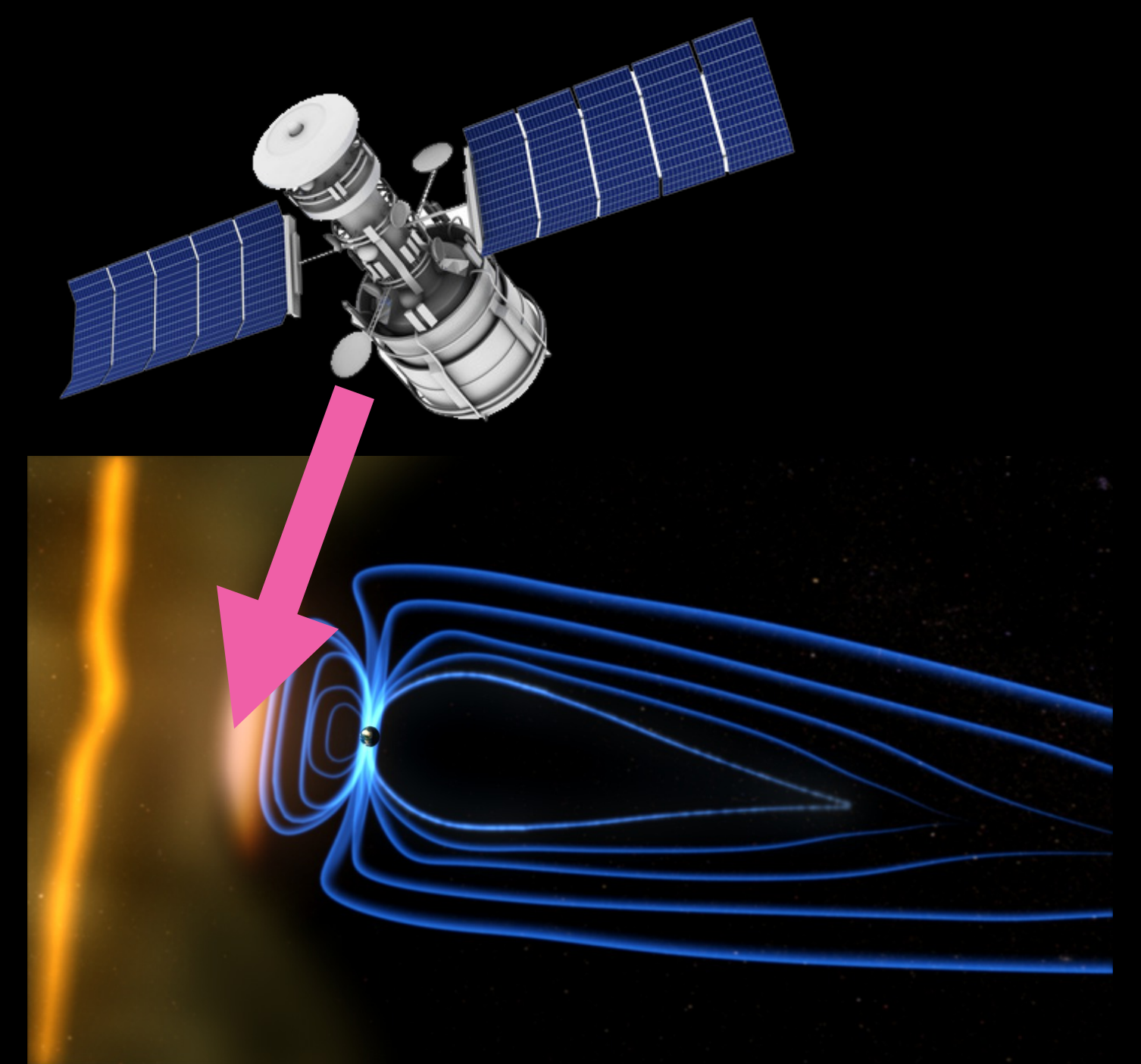


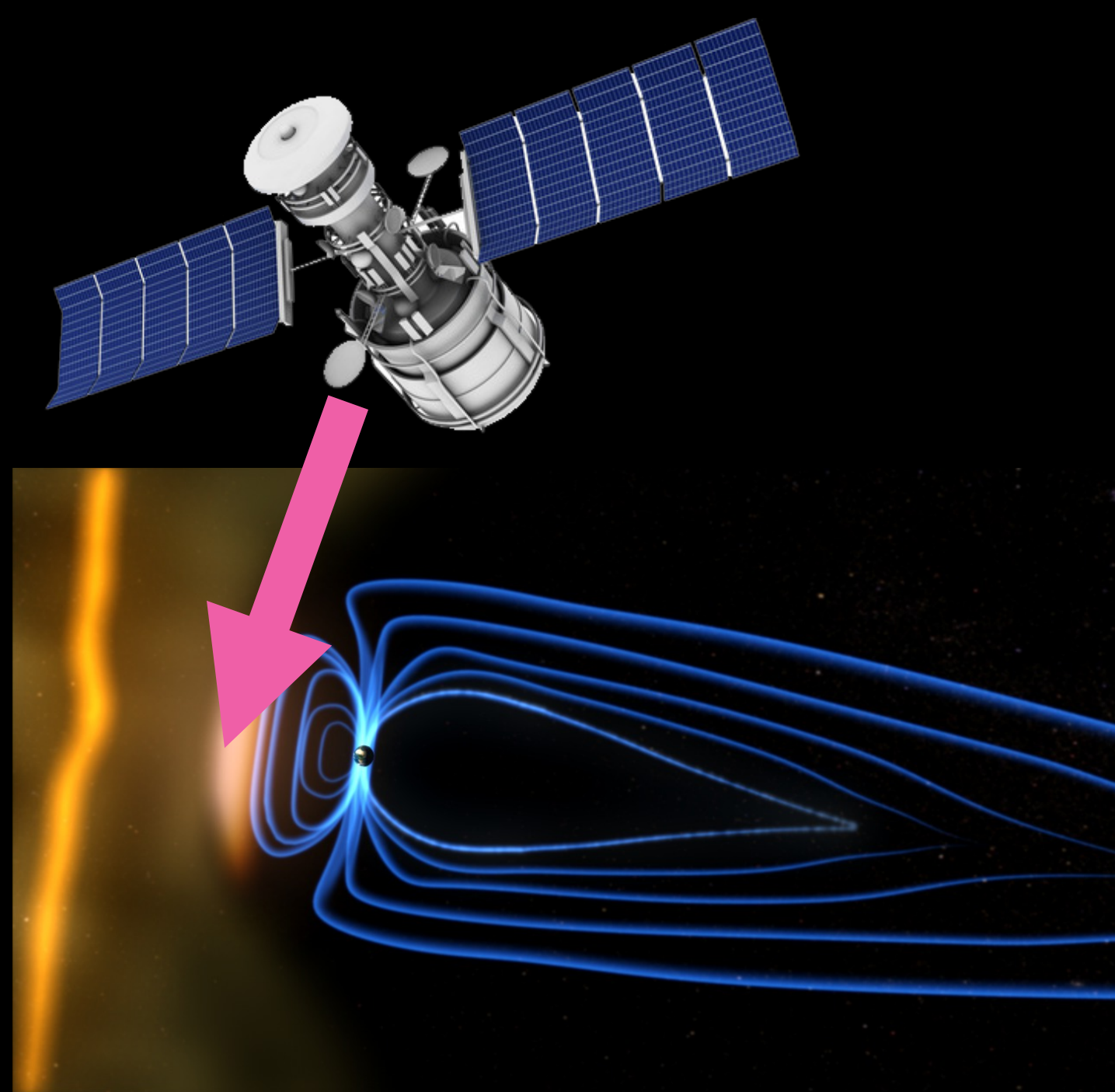






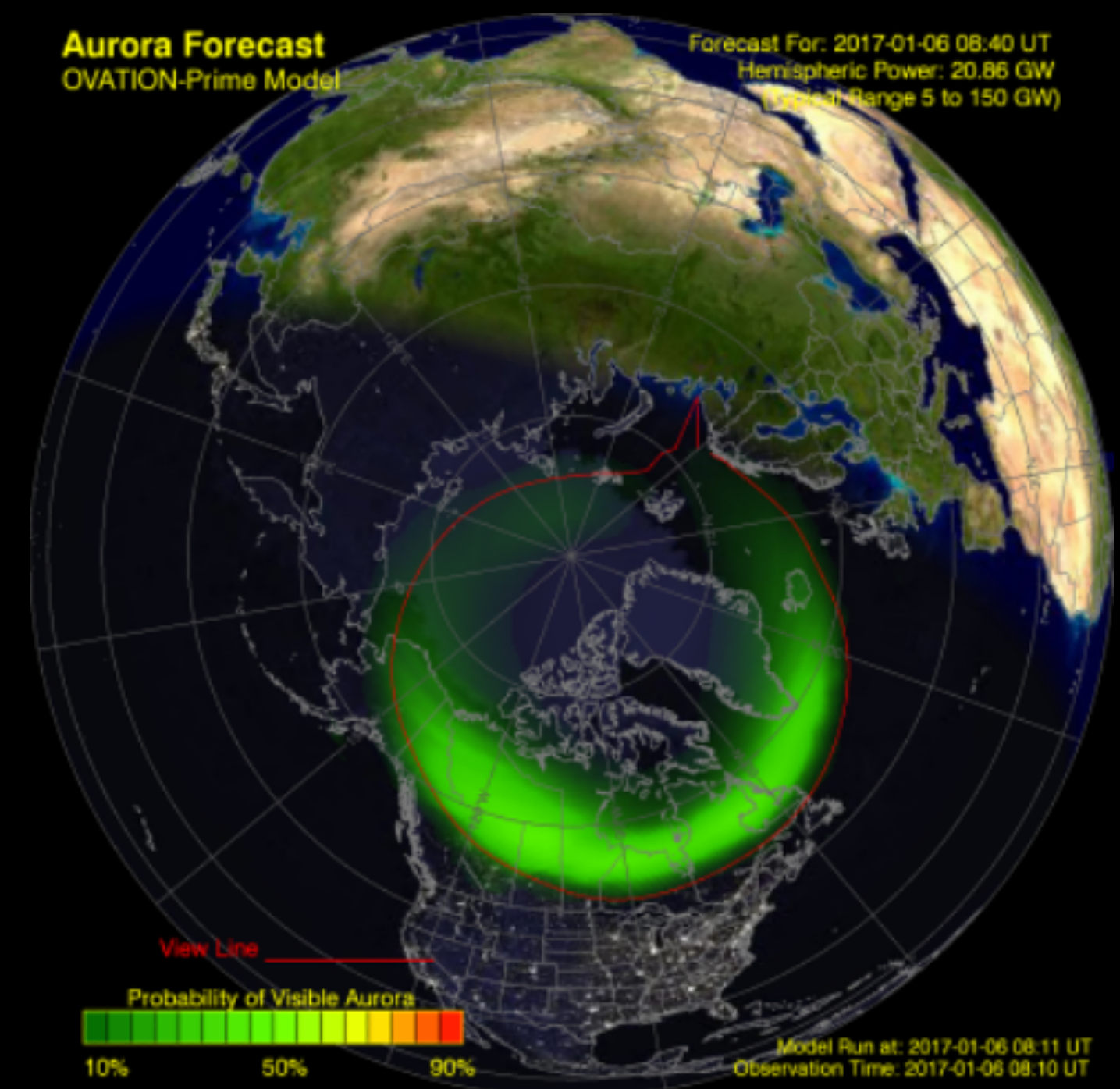






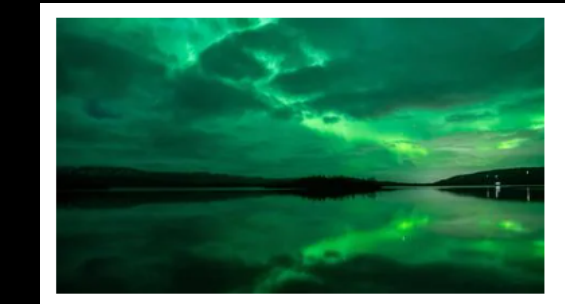
Aurora Forecast
OVATION-Prime Model

Forecast For: 2017-01-06 08:40 UT
Hemispheric Power: 20.86 GW
(Typical Range 5 to 150 GW)

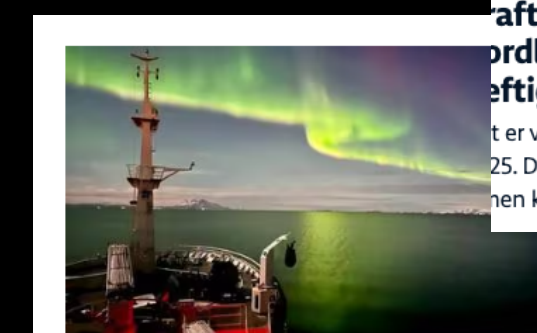




Dobbelteksplasjon på sola gir nordlys i store deler av landet: - Det ser veldig lovende ut
 Men ikke alle er så heldige at de får se det. Sjekk her om akkurat du får skyfri himmel i kveld.



Akkurat i kveld er det ekstra stort for å se nordlys i hele landet
 Løgn og en solstorm på vei gjør at sjansen for å se nordlys i kveld og i natt er usedvanlig. Nå koker det bra, sier romforsker.

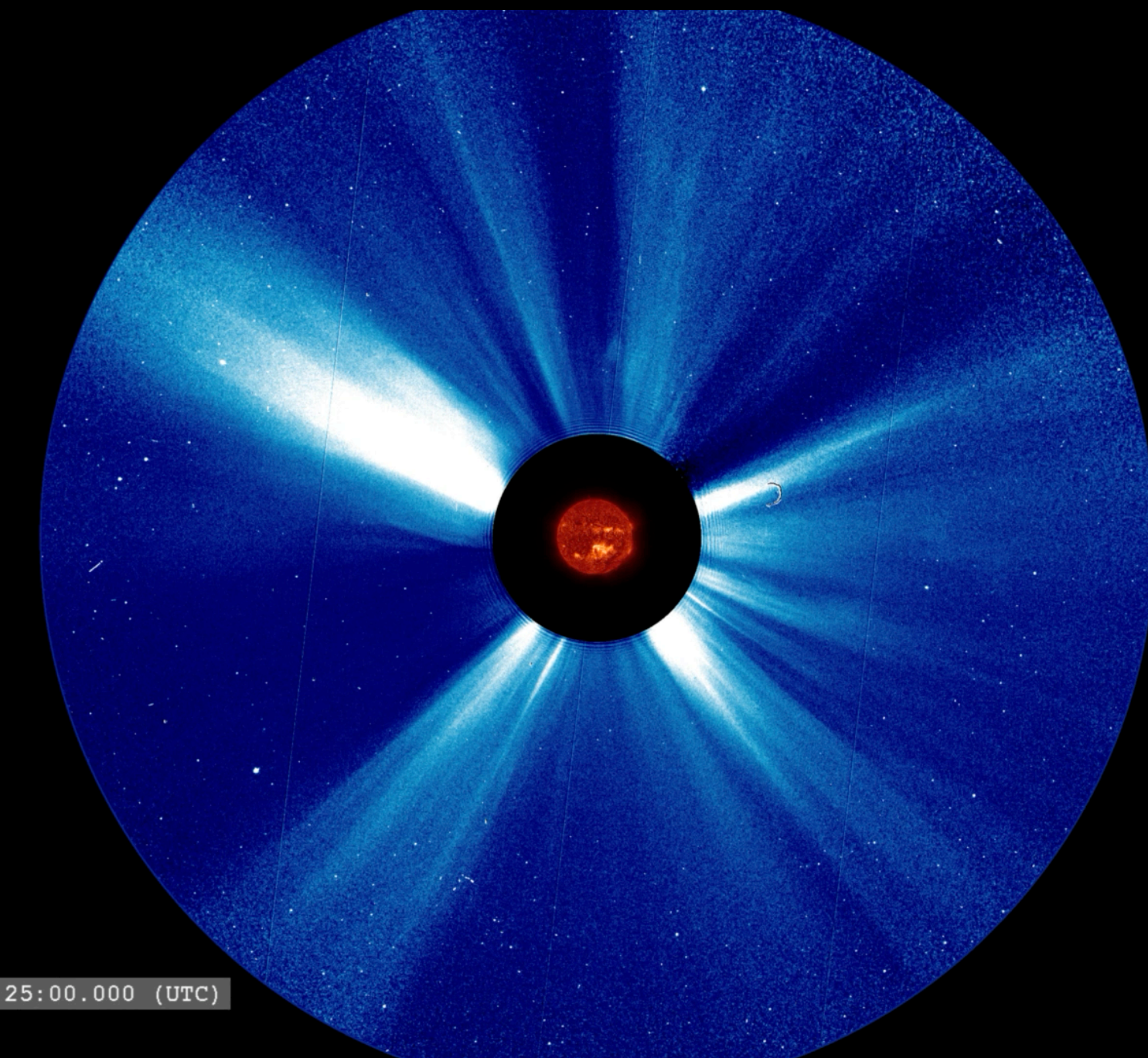


Kraftig solstorm gir nordlys i hele landet - Det er bare ett problem
 Flere kraftige stormer på solen gjør at himmelen i nesten hele Norge vil bade i nordlys i natt. Men ikke alle får sett himmelfenomenet likevel.

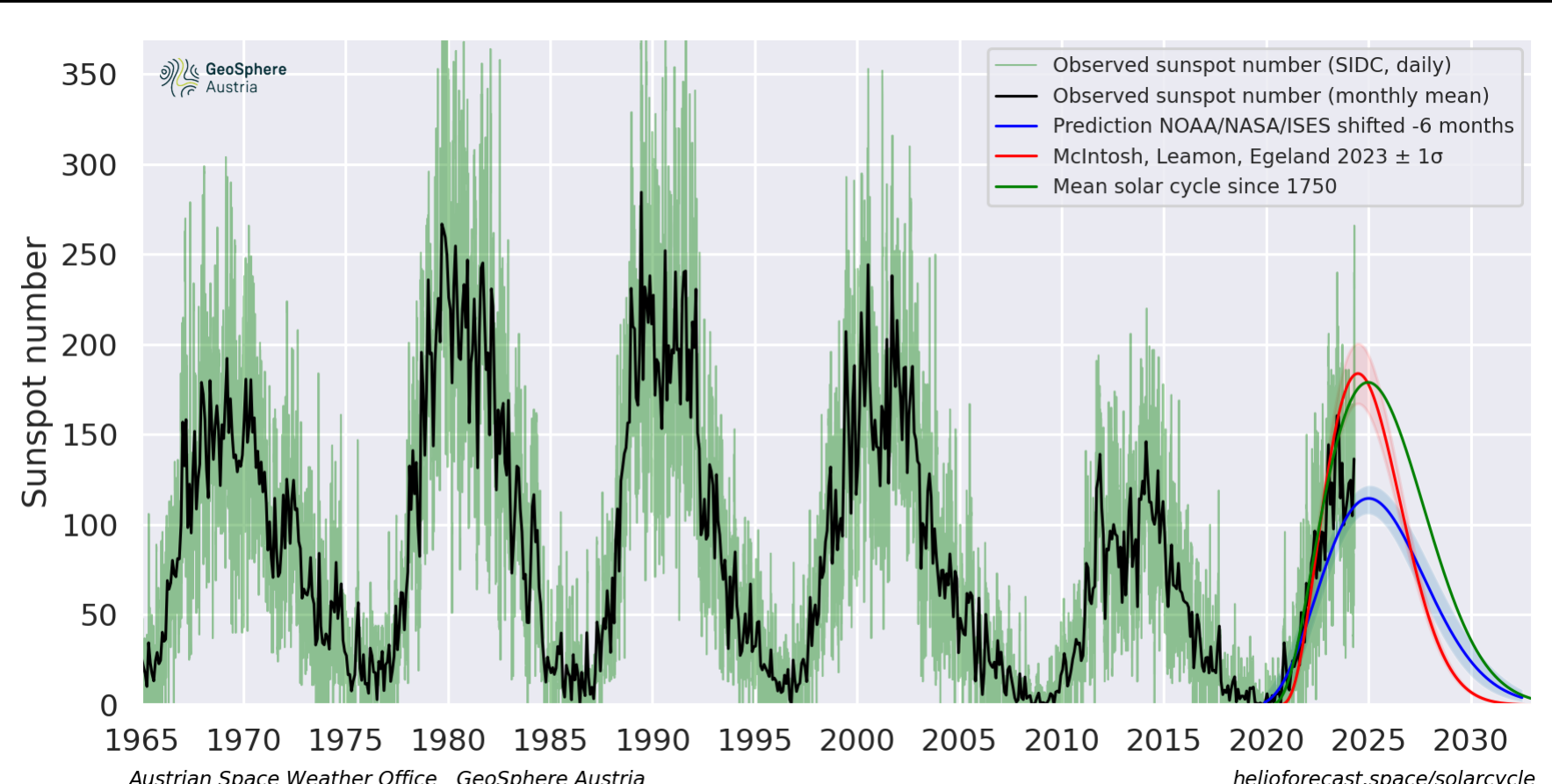
Kraftige solstormer gir oss nordlys-bonanza: - Vi går mot kraftige tider
 Det er ventet at aktiviteten på sola øker i 2025. Det betyr flere solstormer og vakre nordlys. Men det kan også skape problemer.



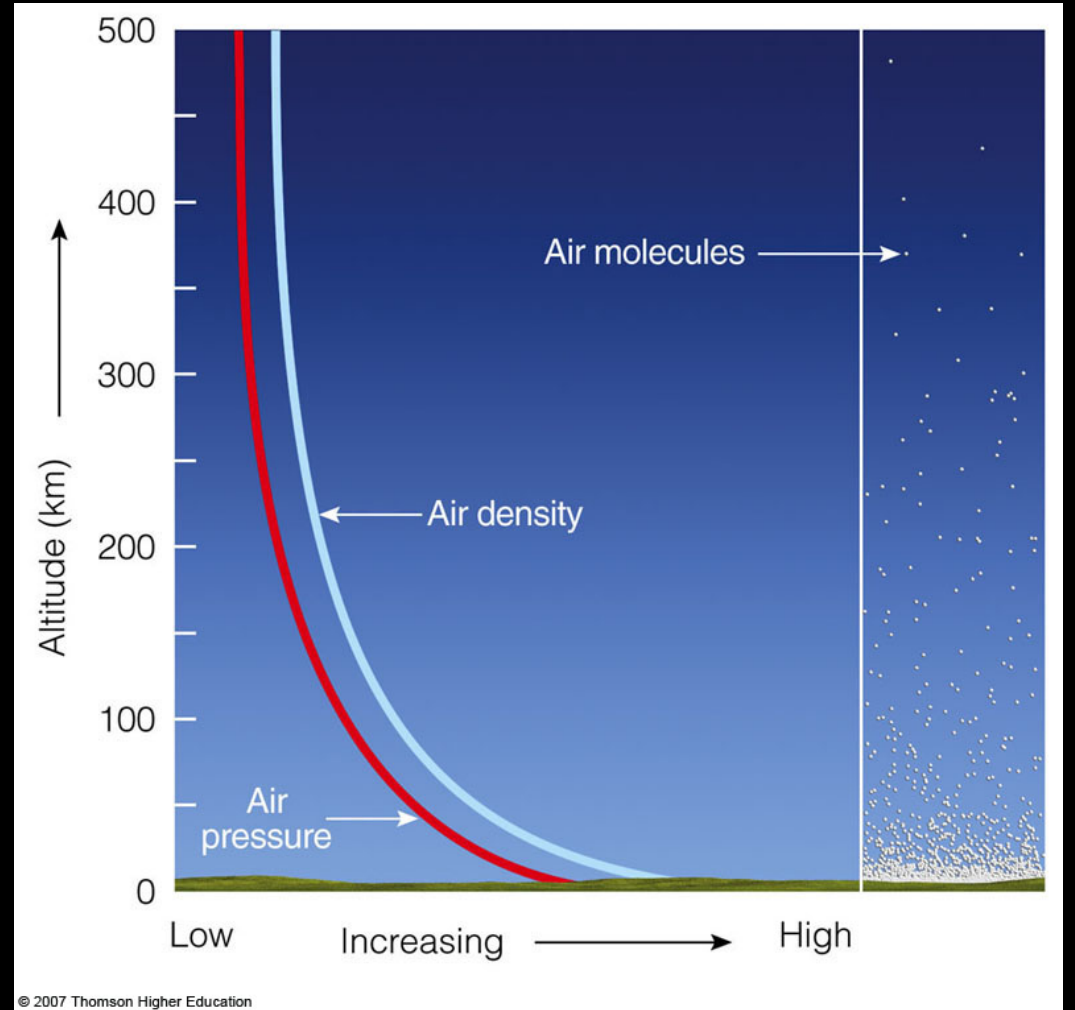
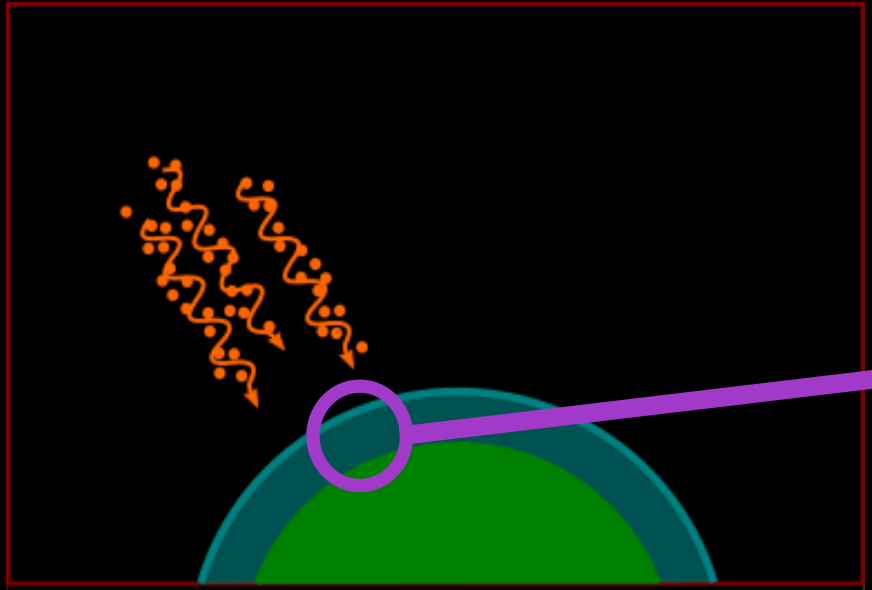
I kveld kan du (trolig) se nordlys over store deler av Sør-Norge
 Det har vært mye nordlys i Sør-Norge i det siste. I kveld kan det bli enda kraftigere, ifølge solforsker Pål Brekke.



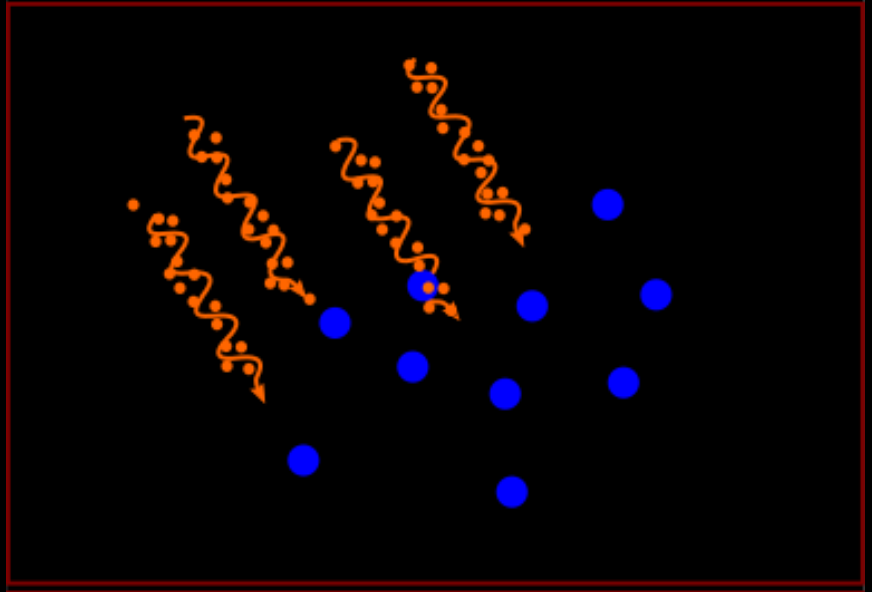
2012 Jul 22 00:25:00.000 (UTC)



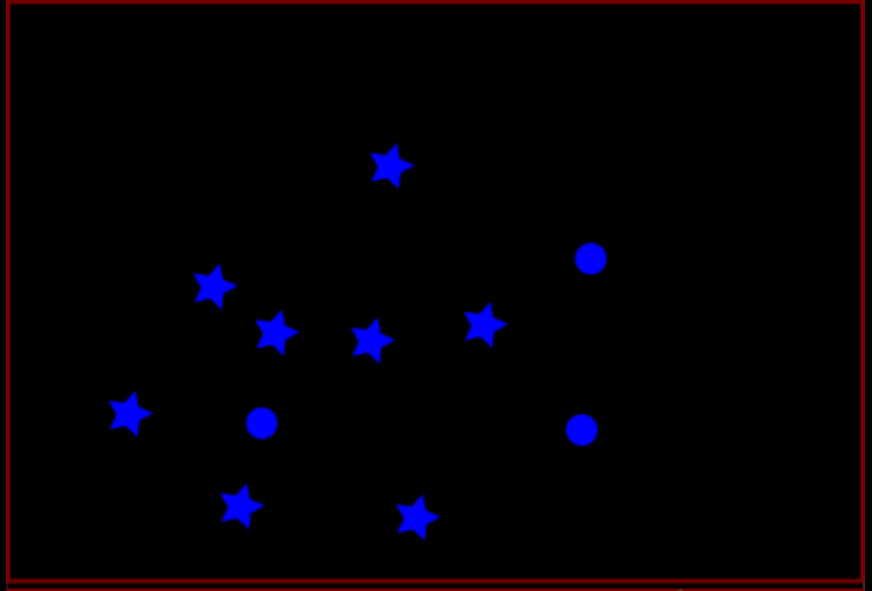
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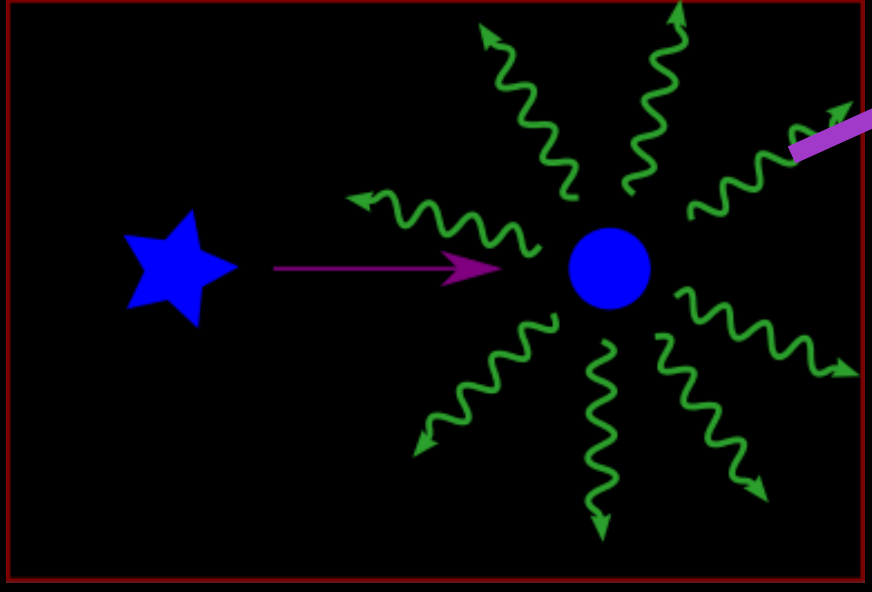
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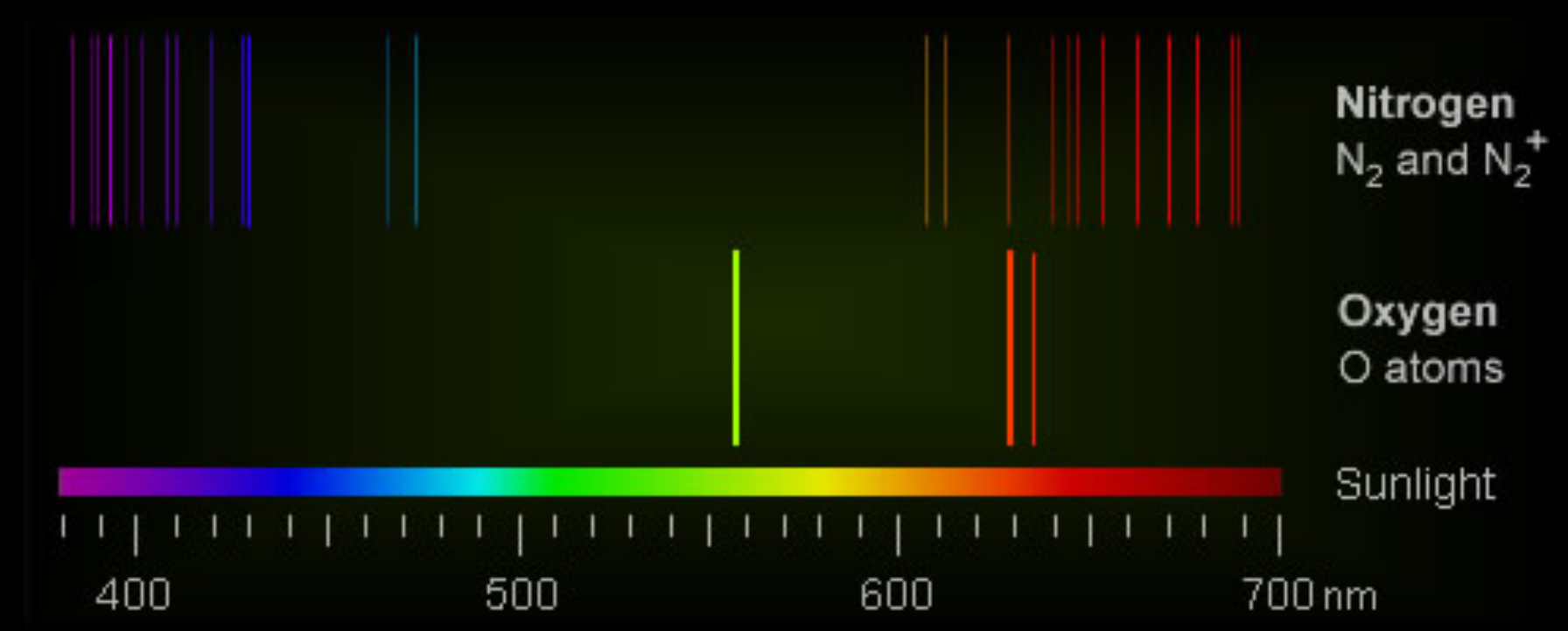
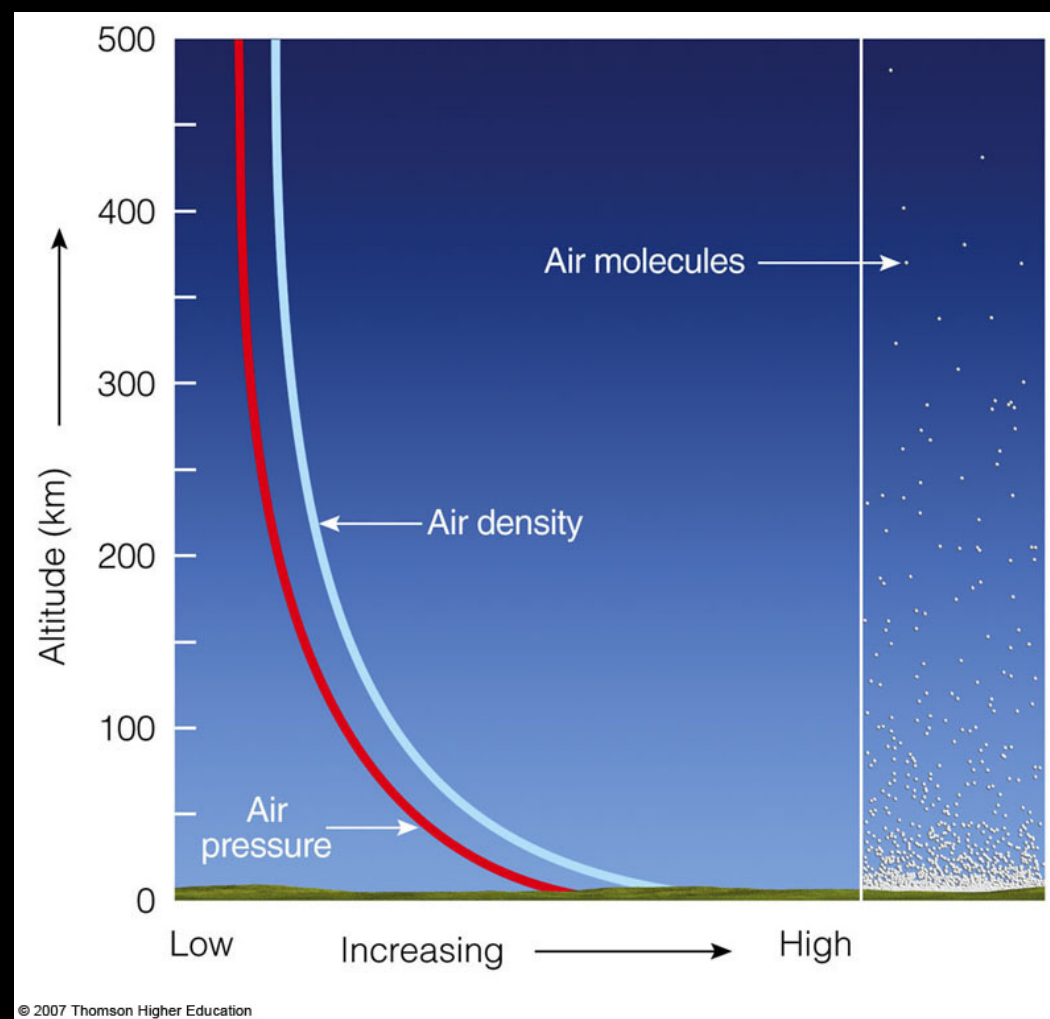
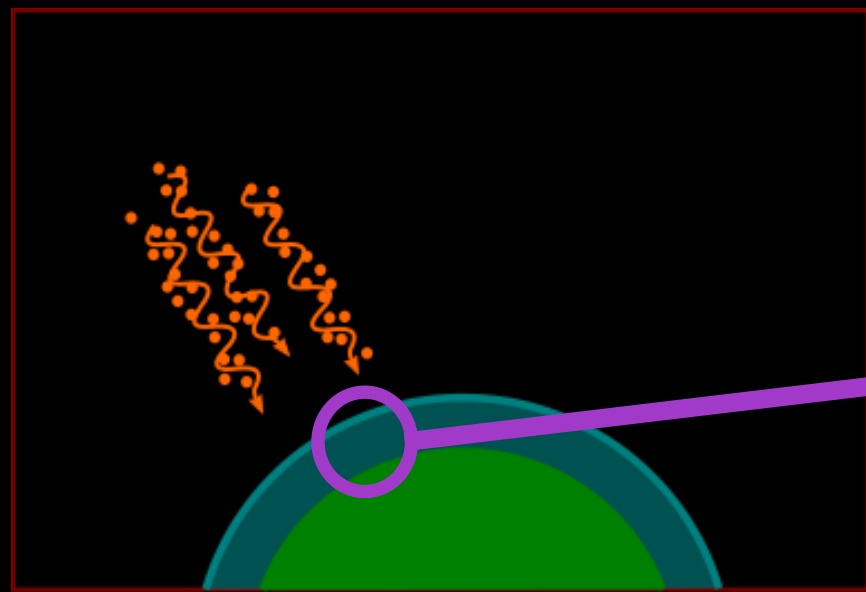
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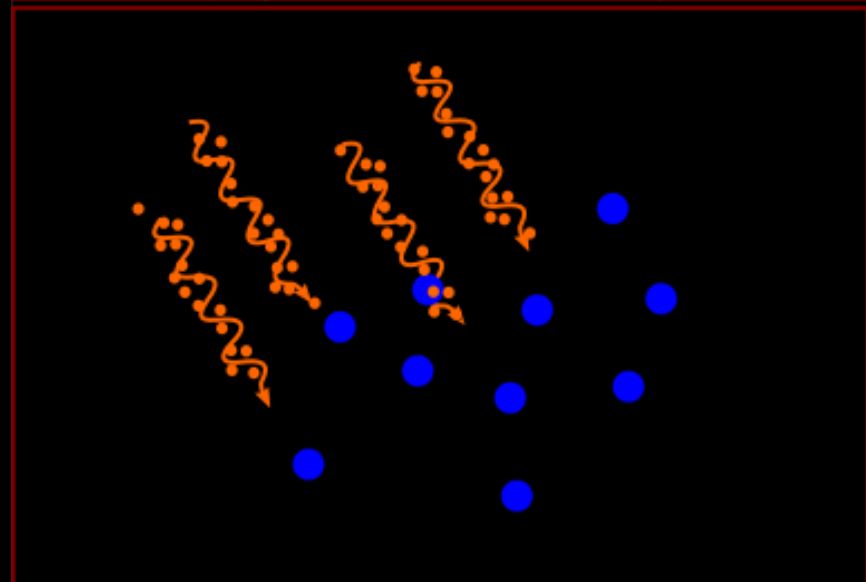
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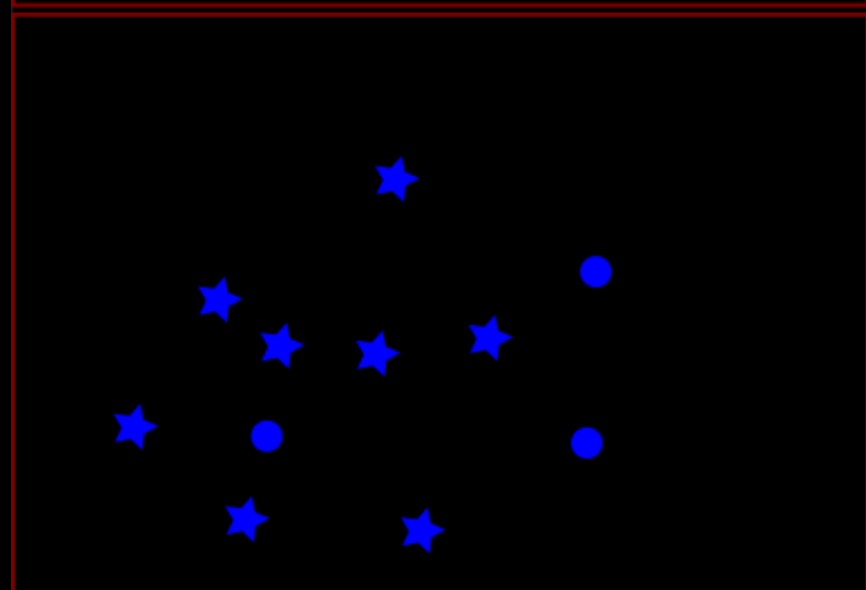
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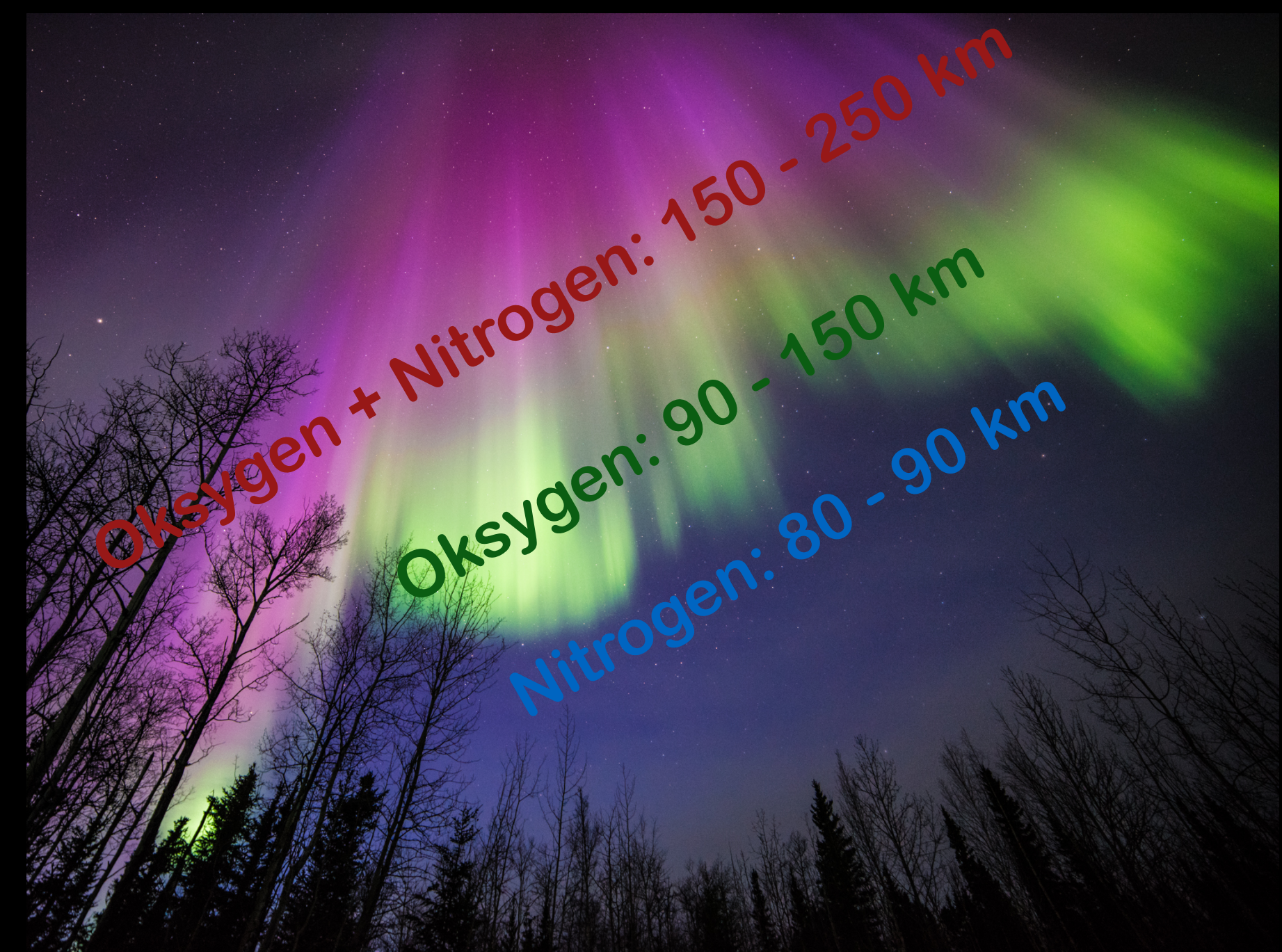
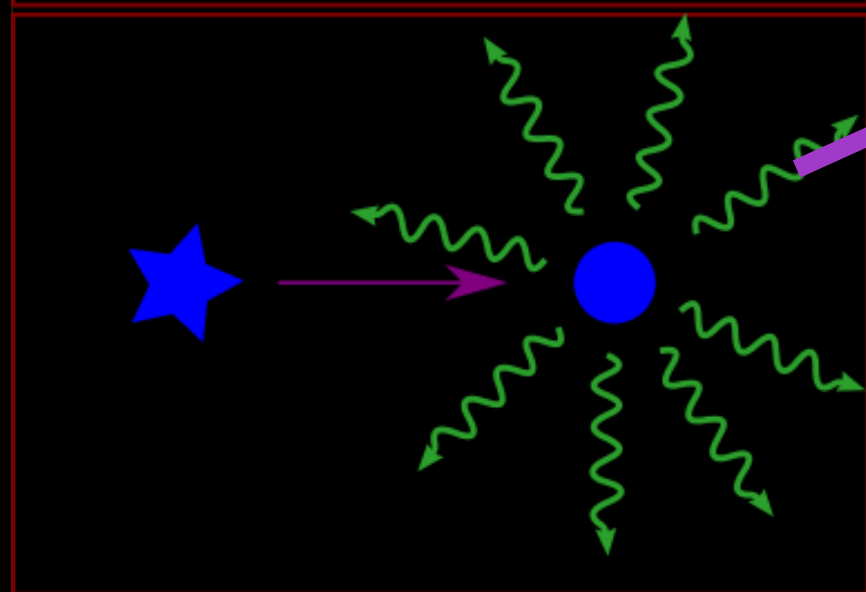
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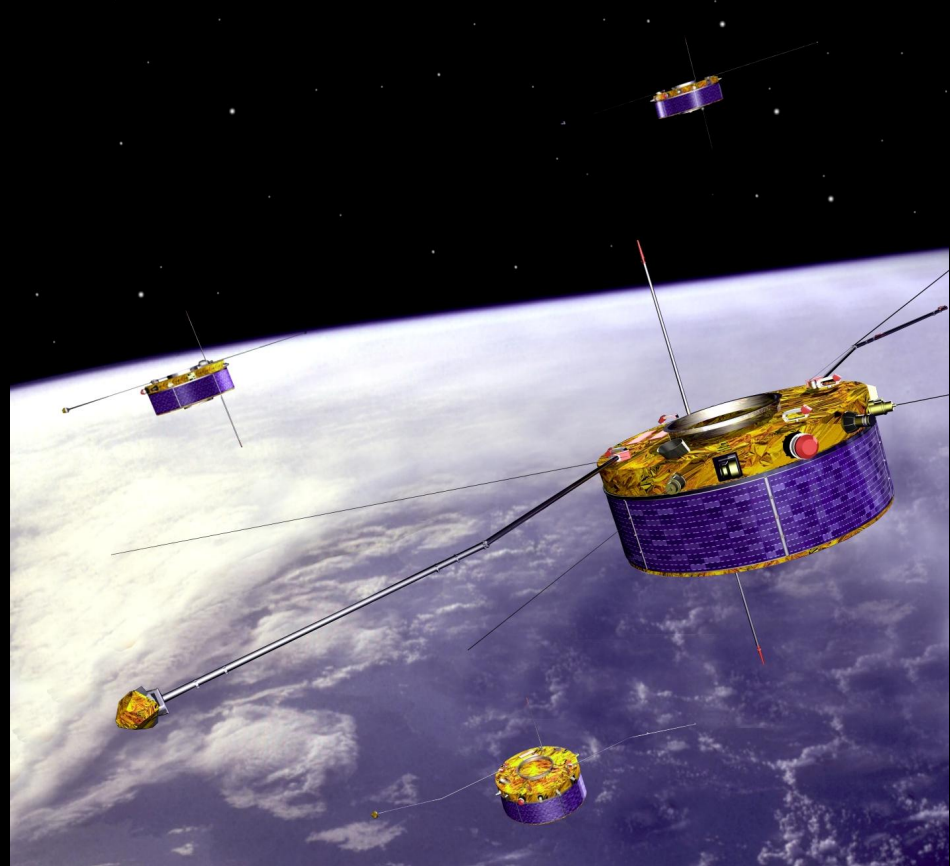


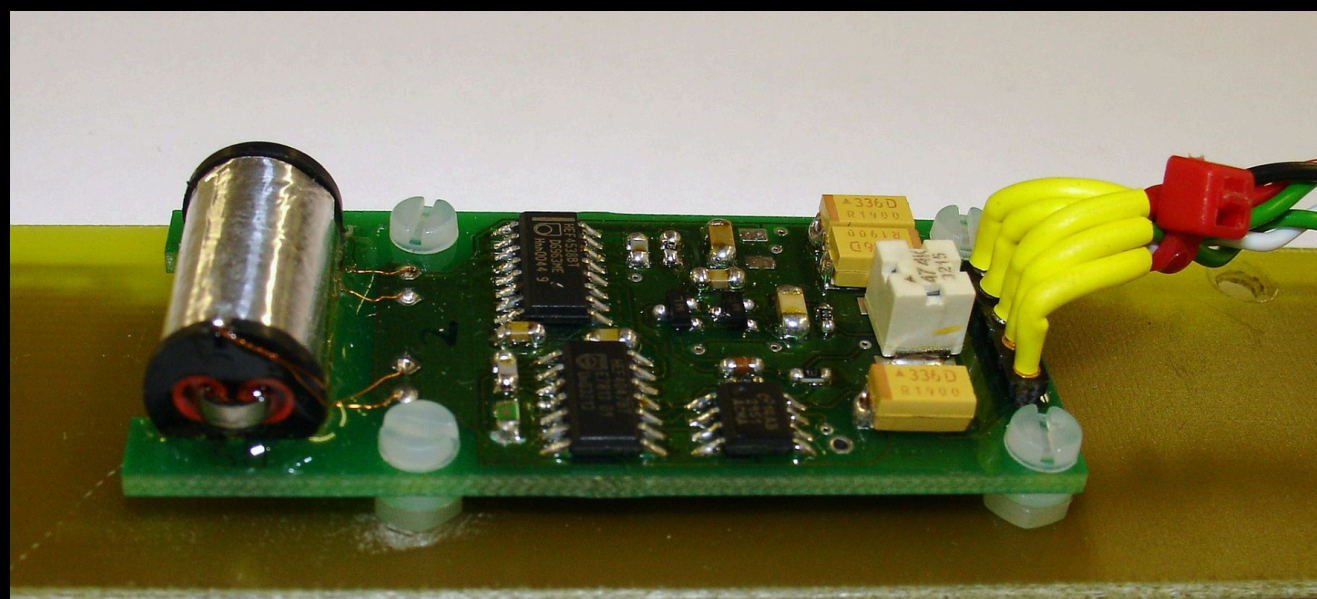
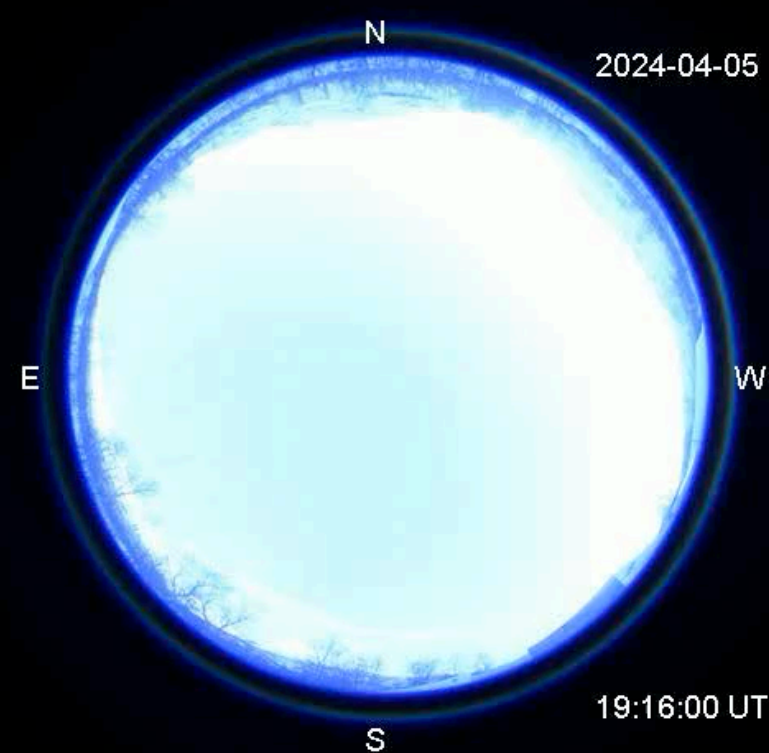
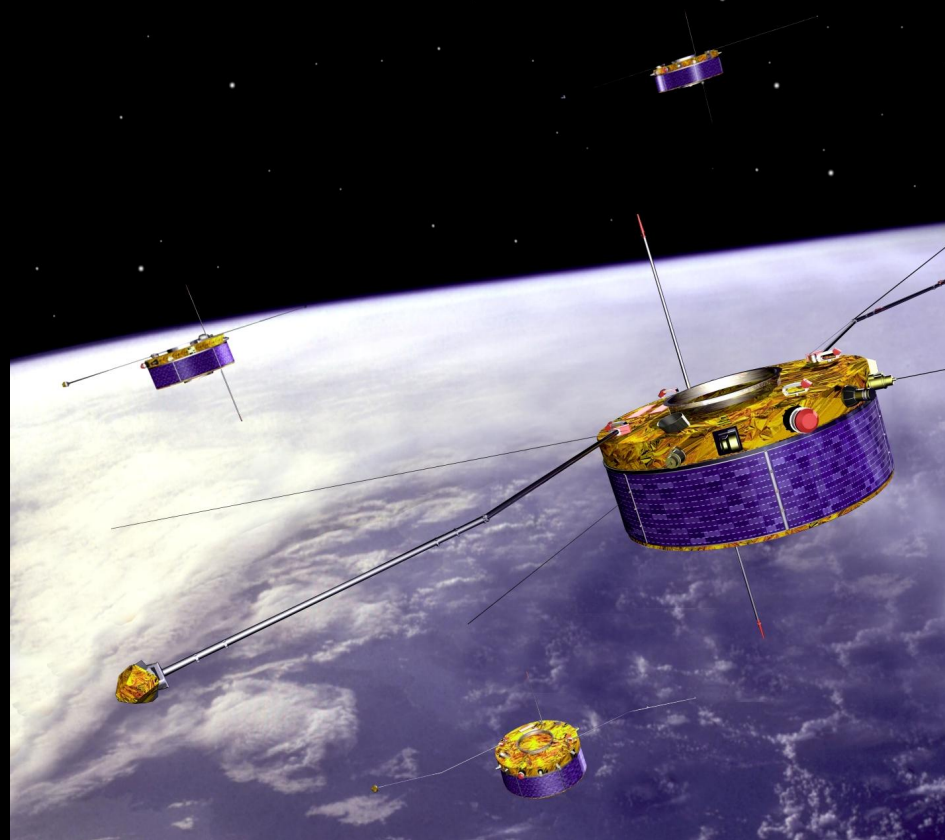
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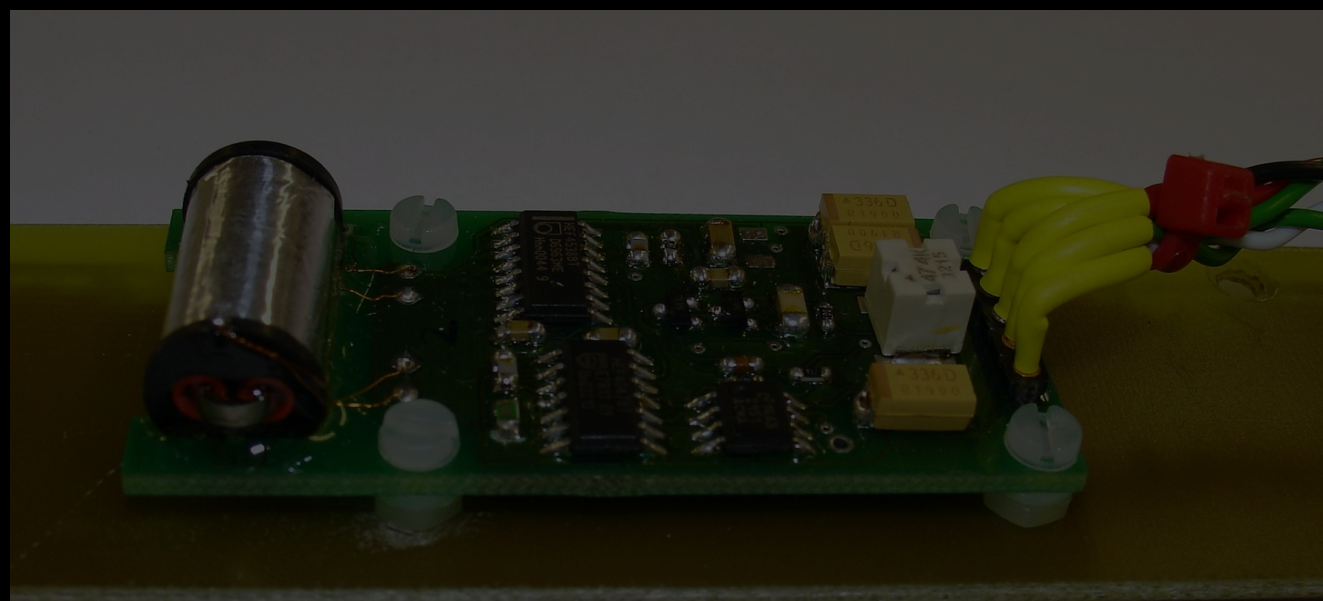


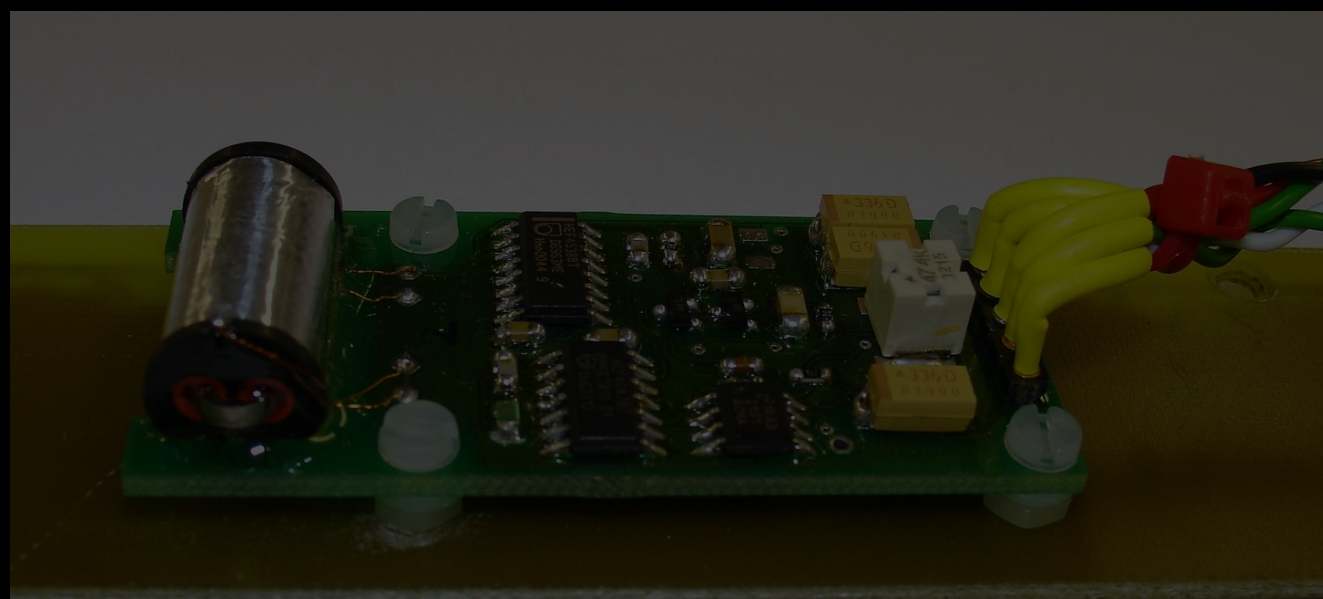
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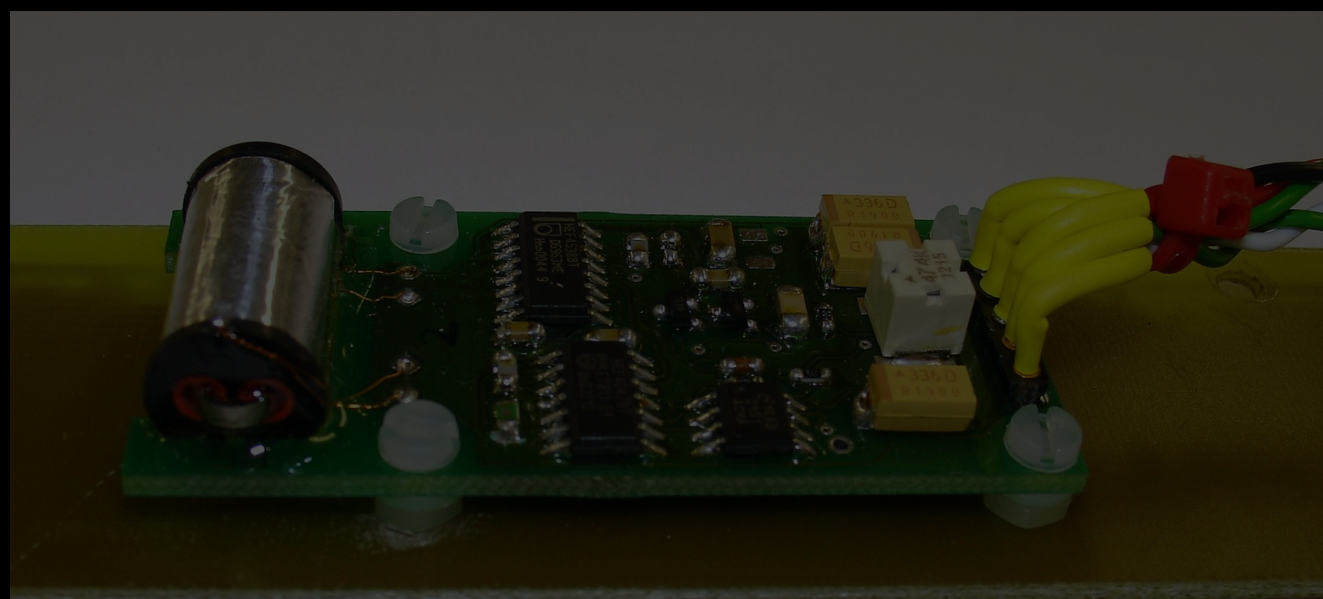


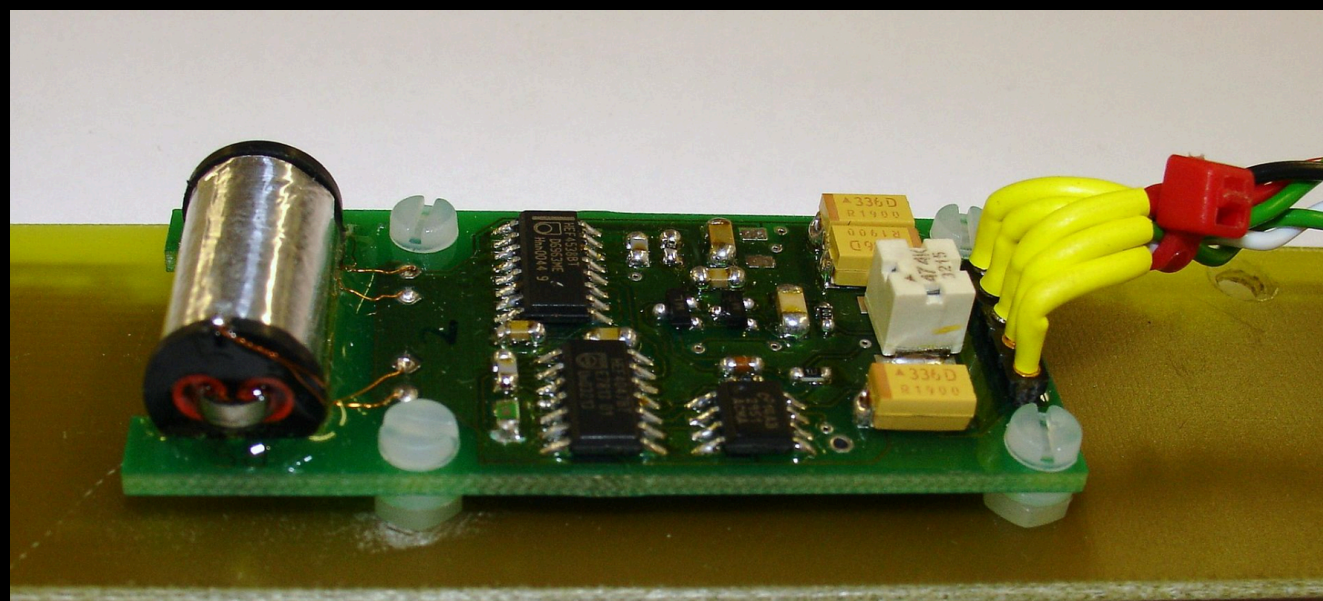
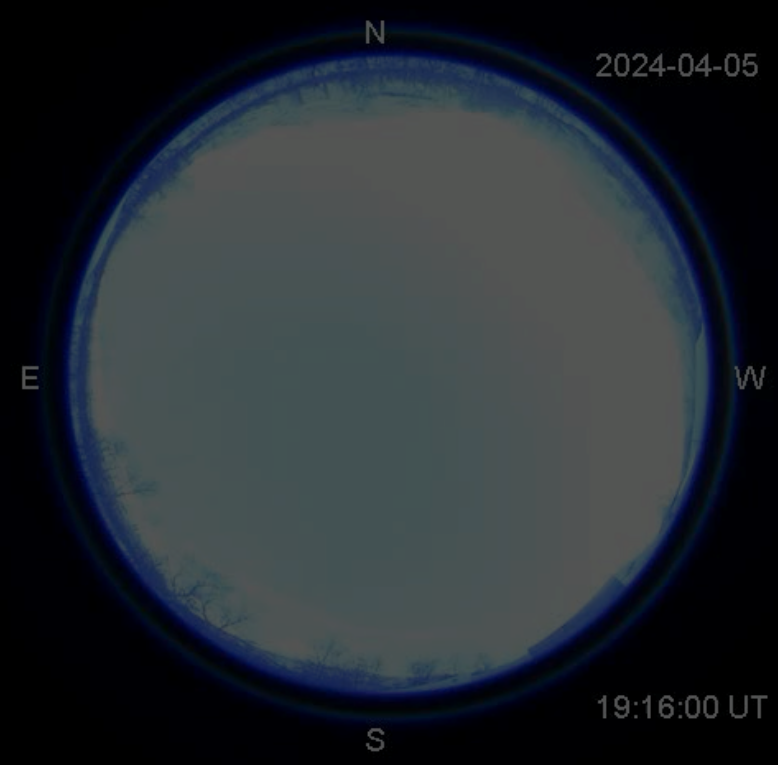


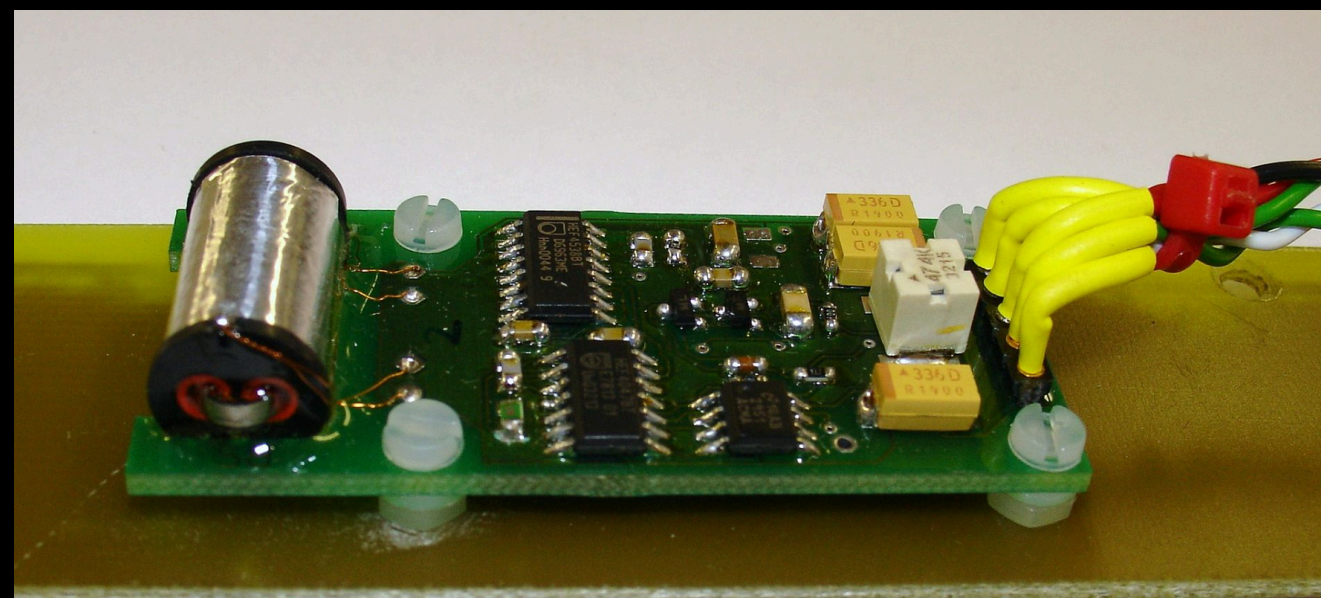
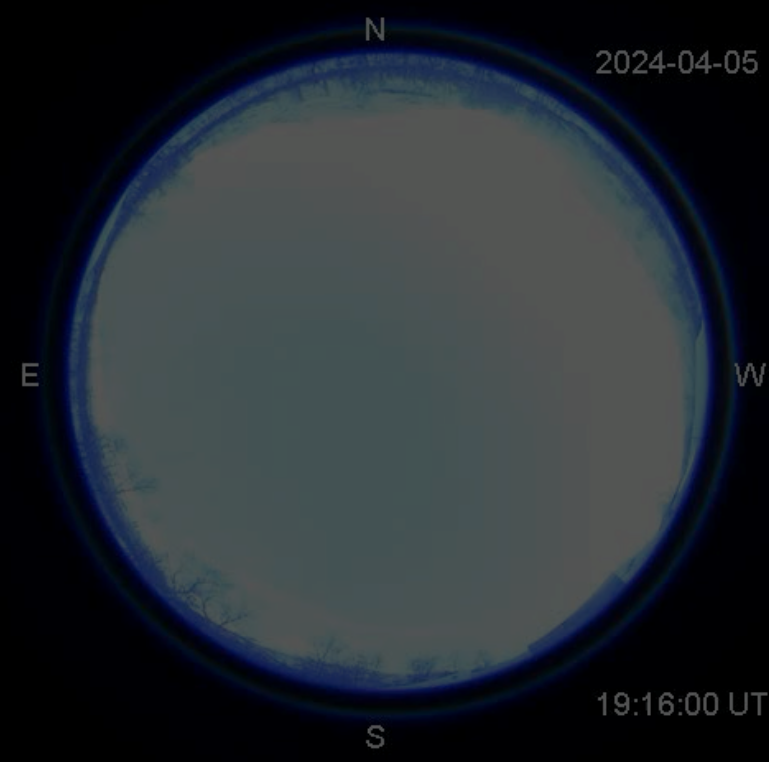
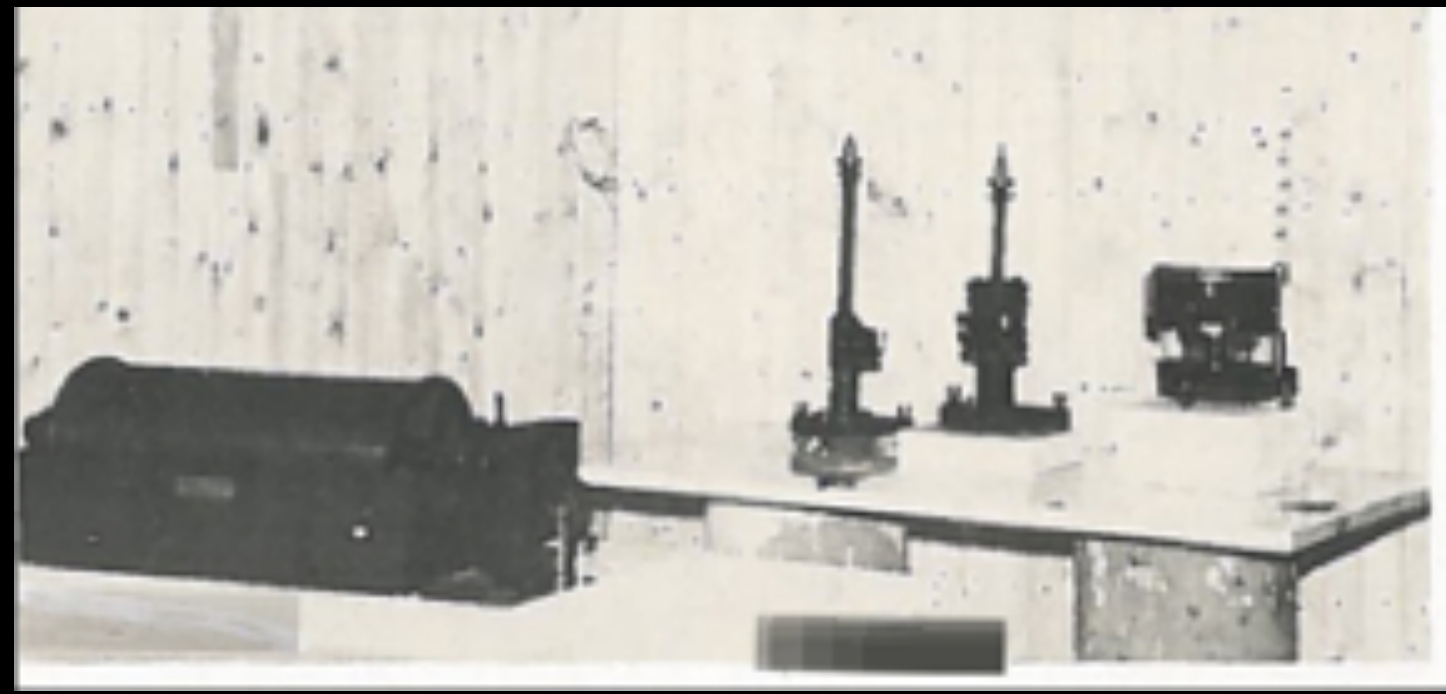


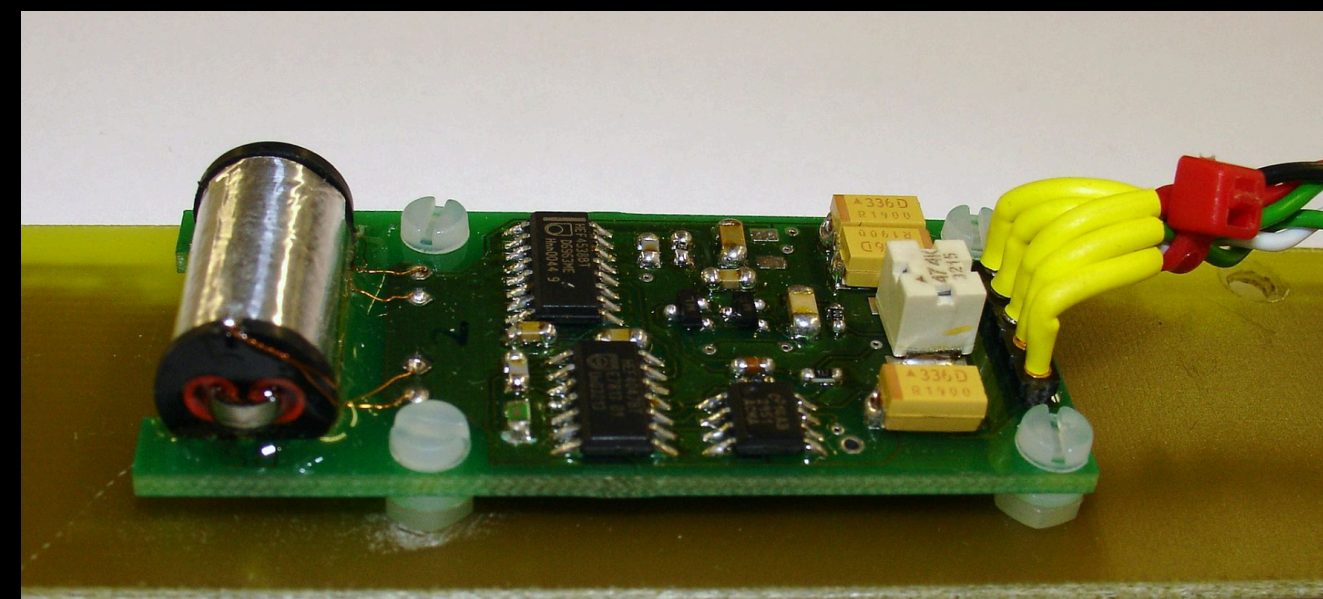
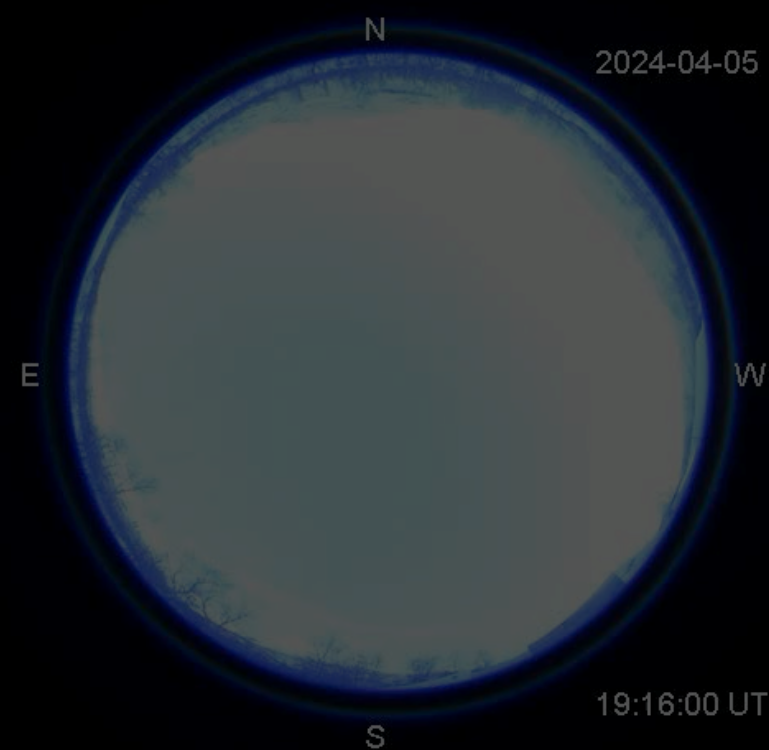
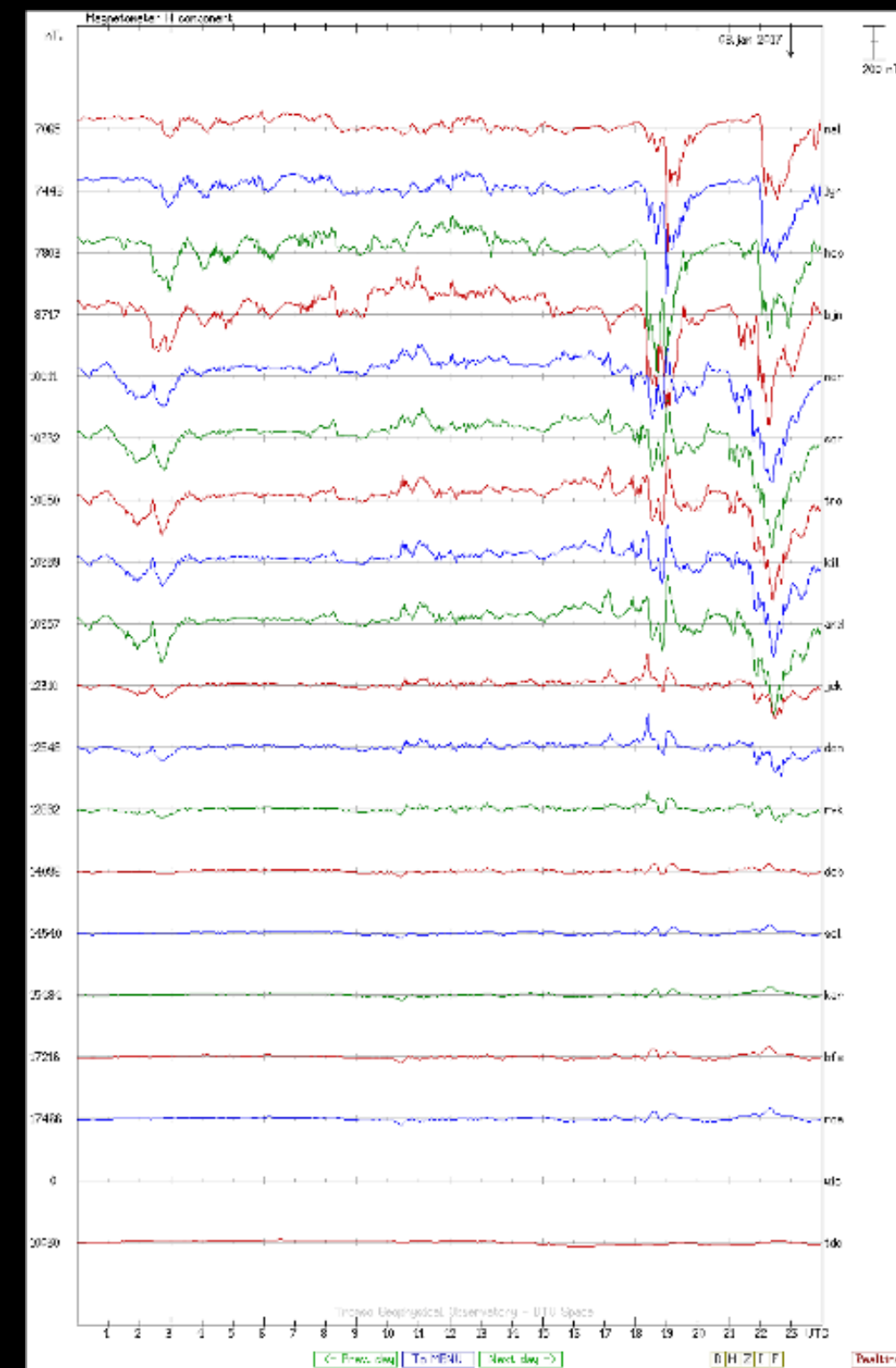
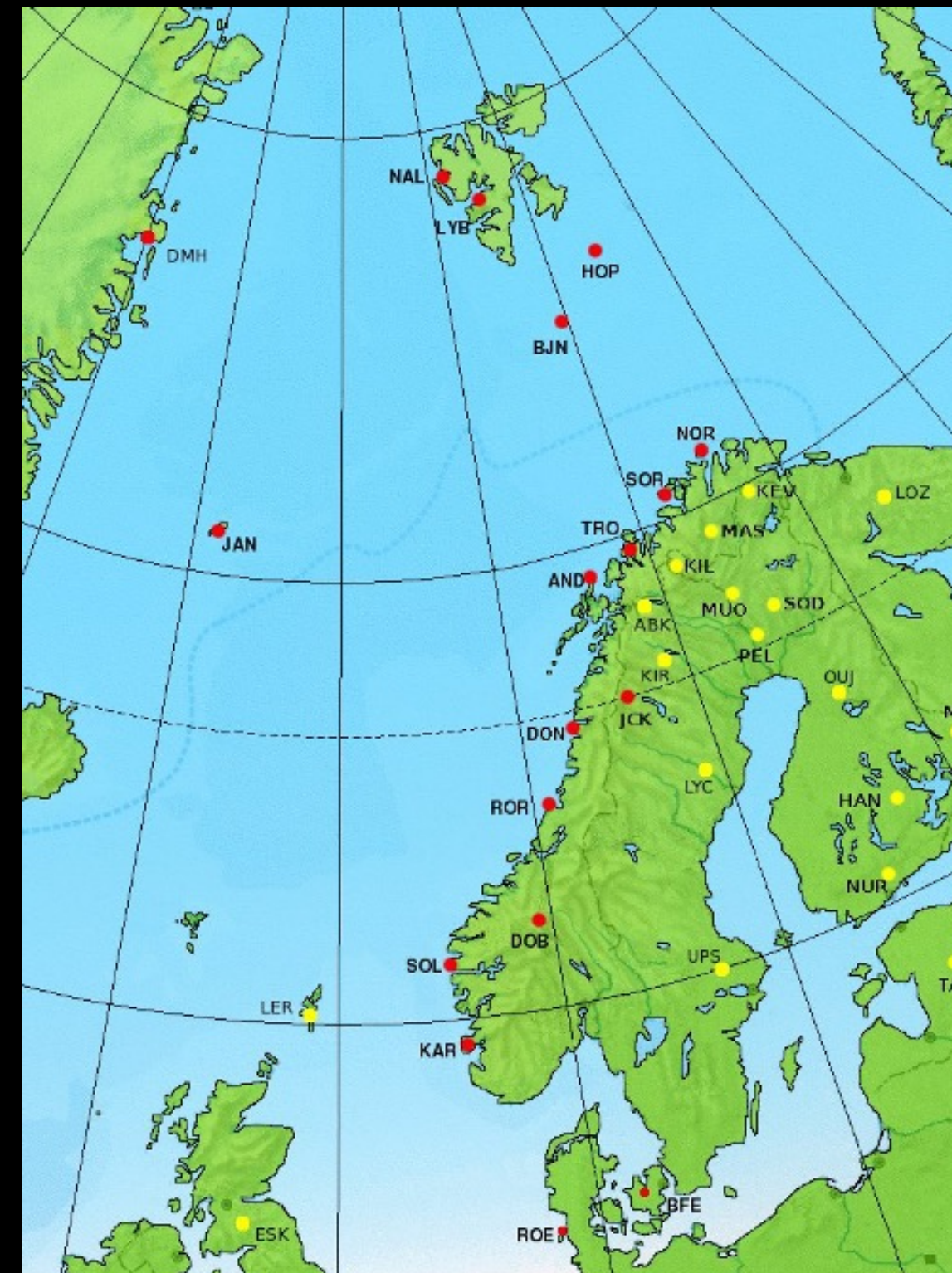


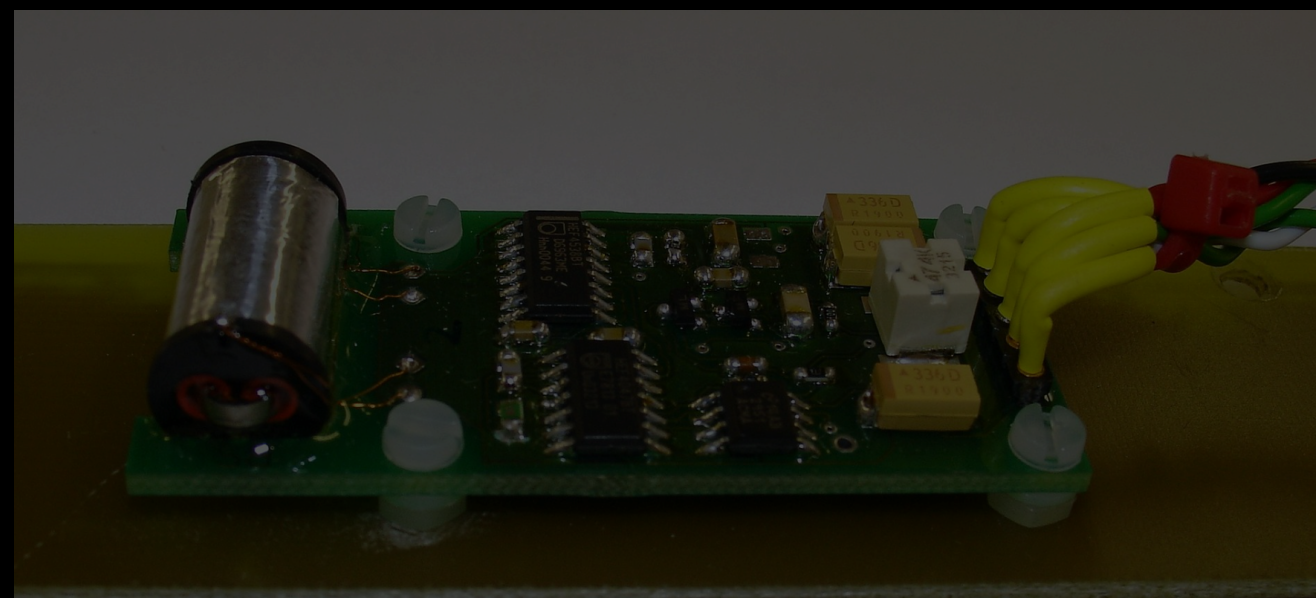
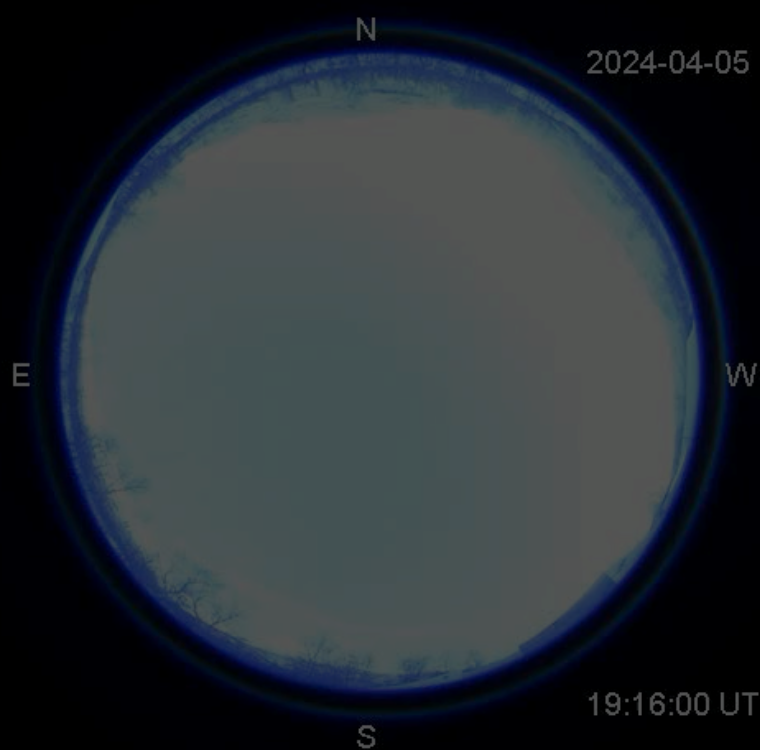
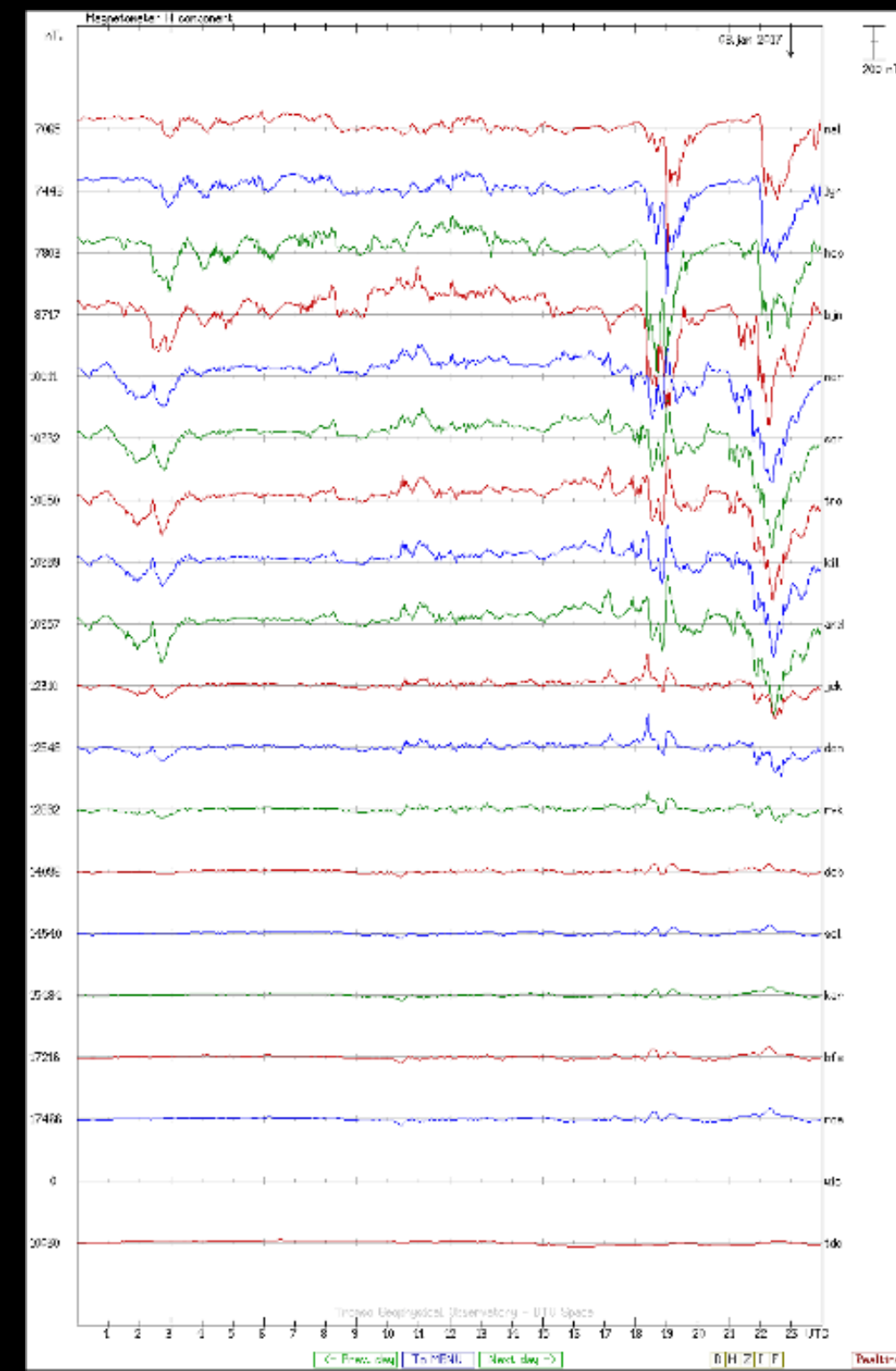
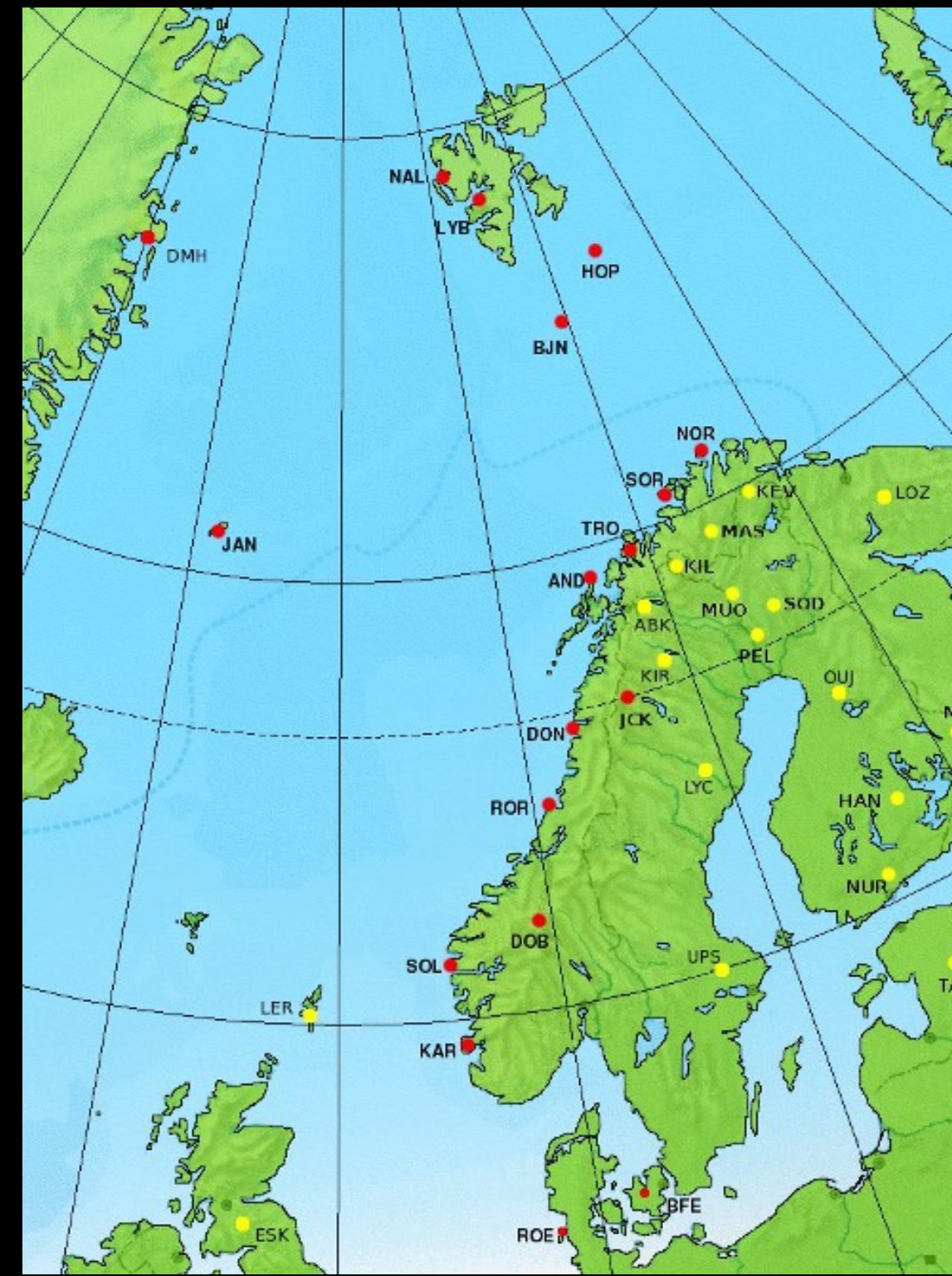
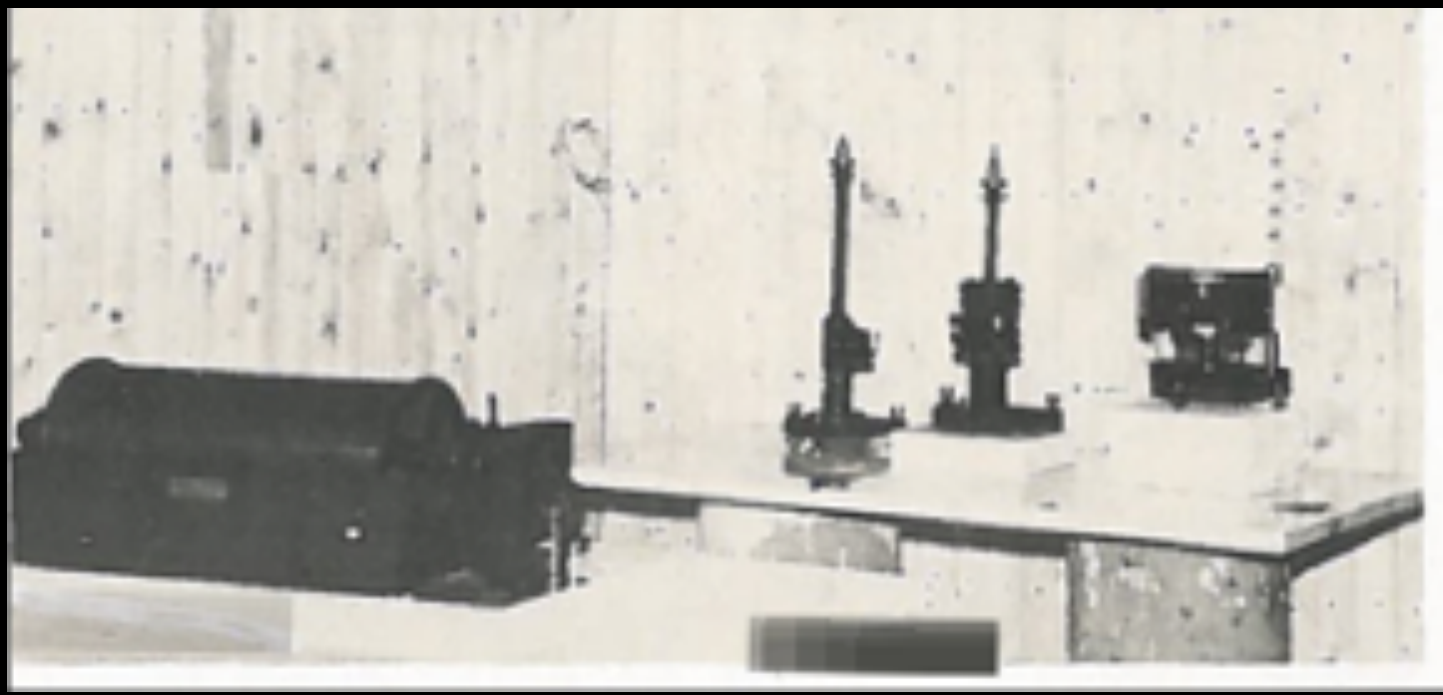


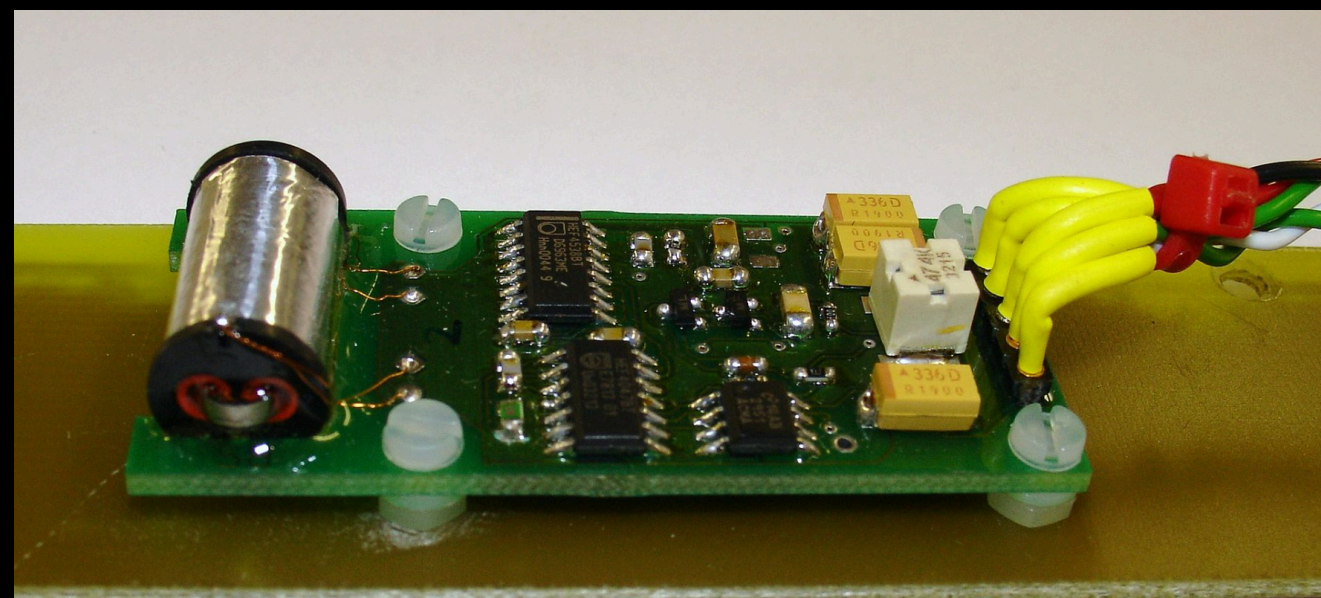
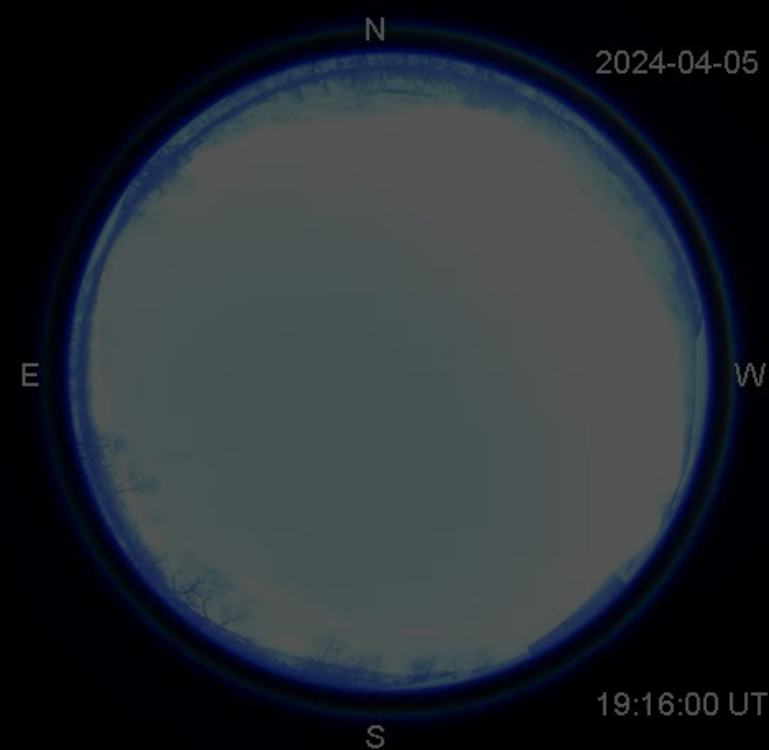
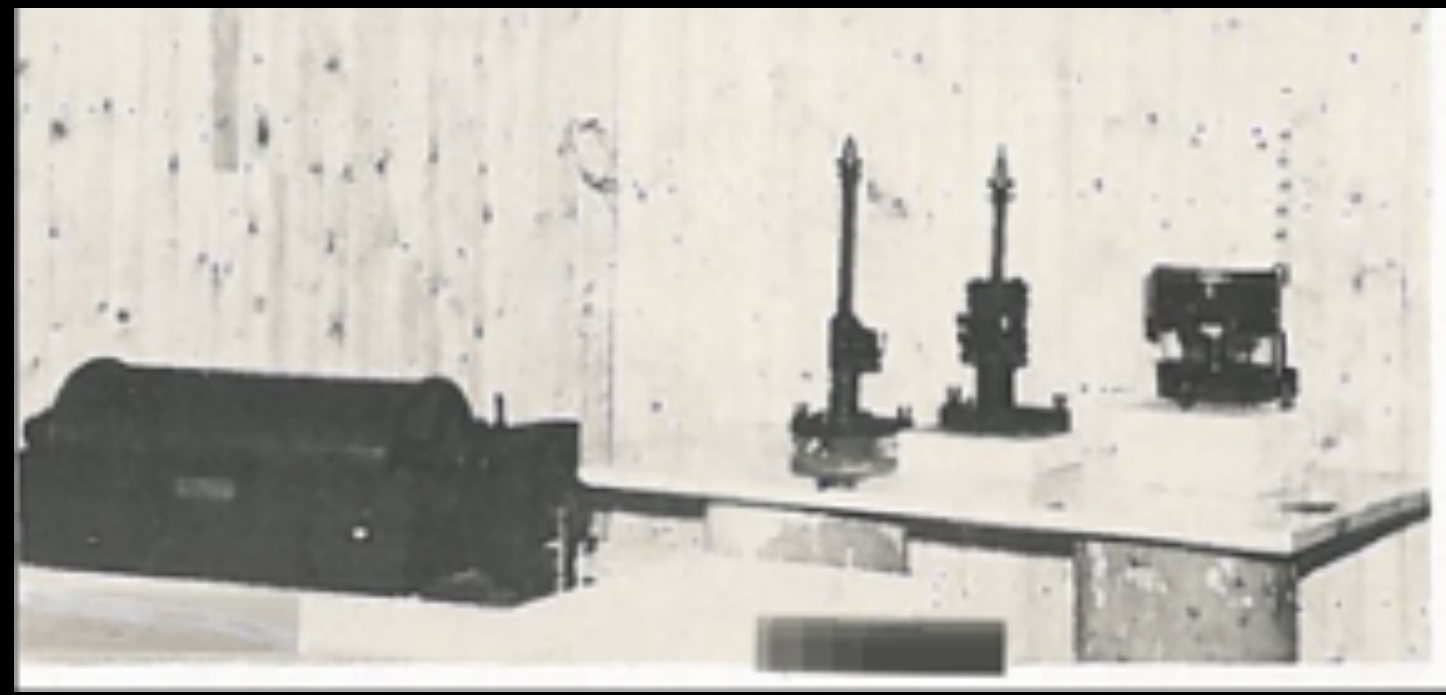


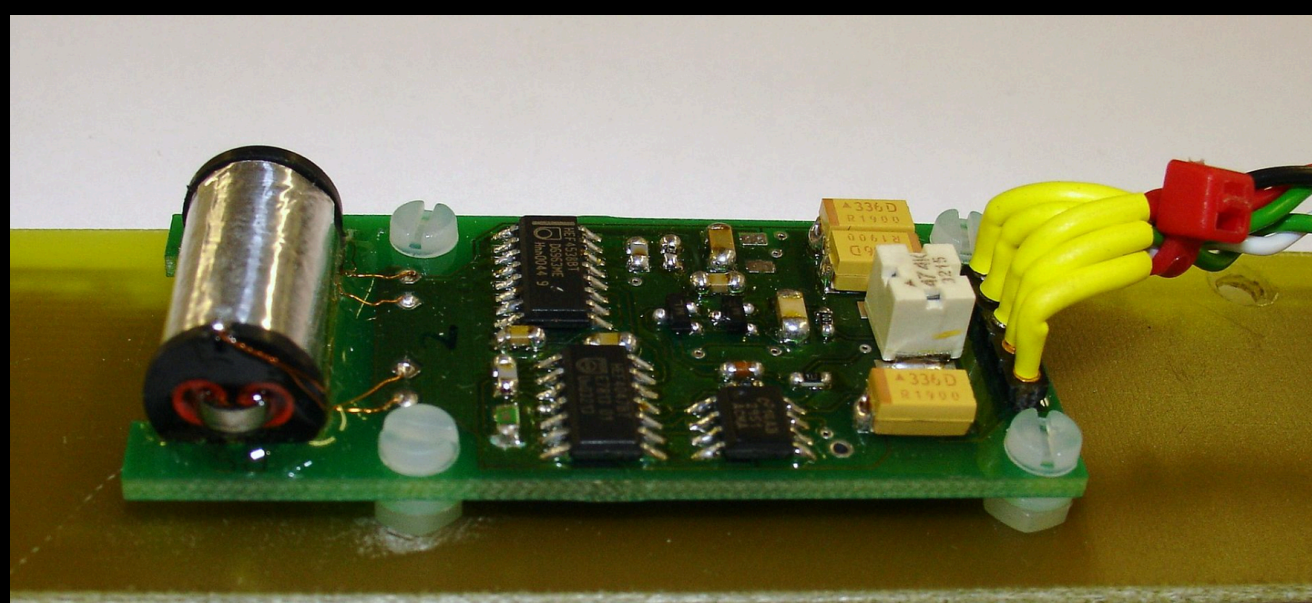
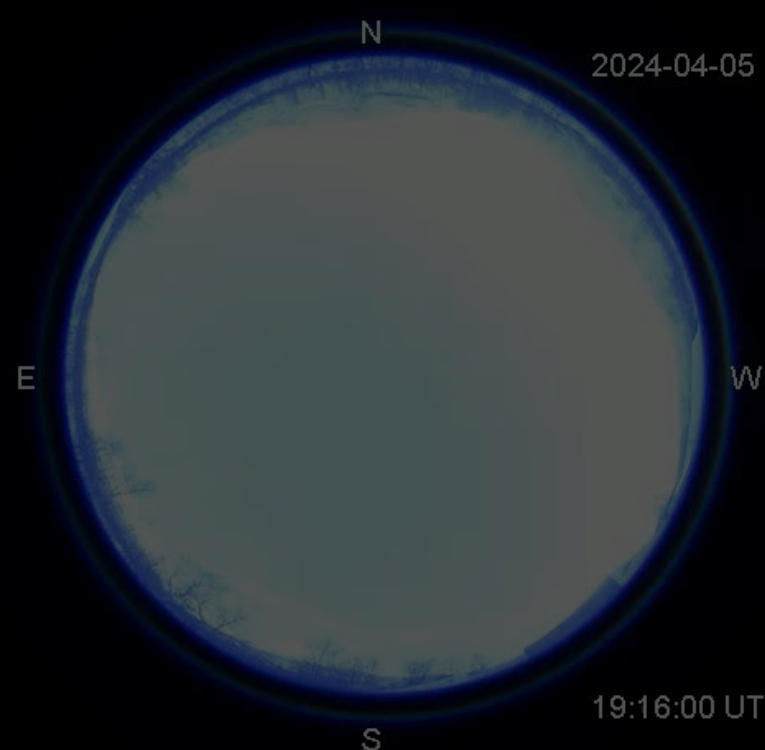


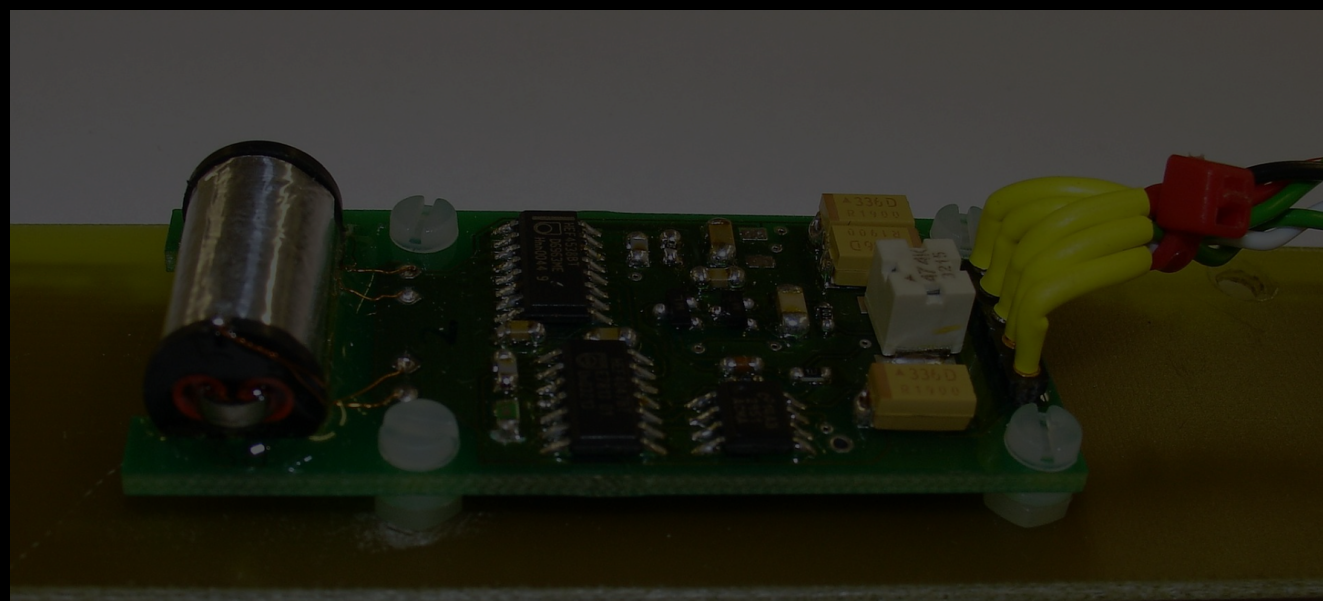
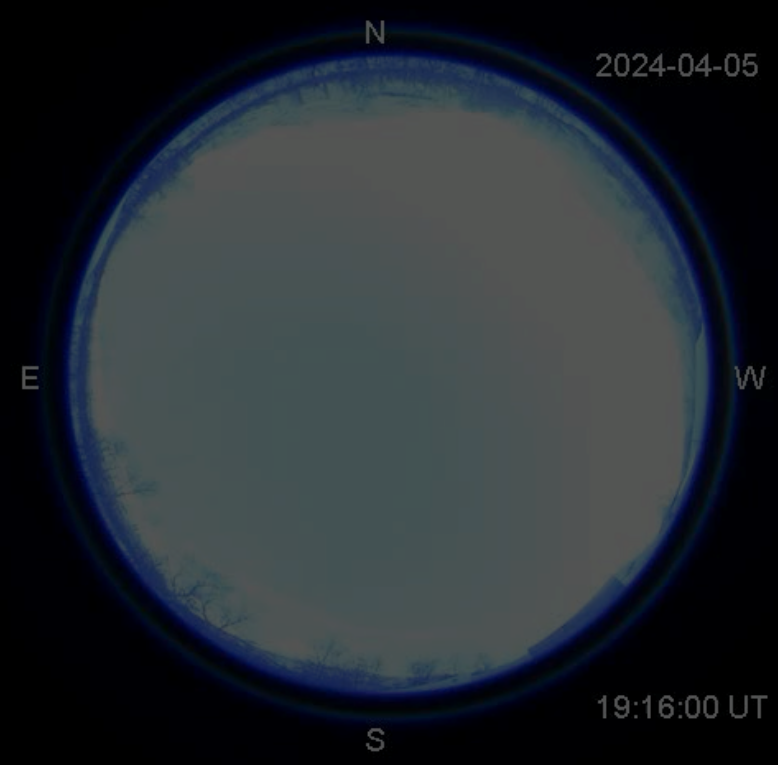


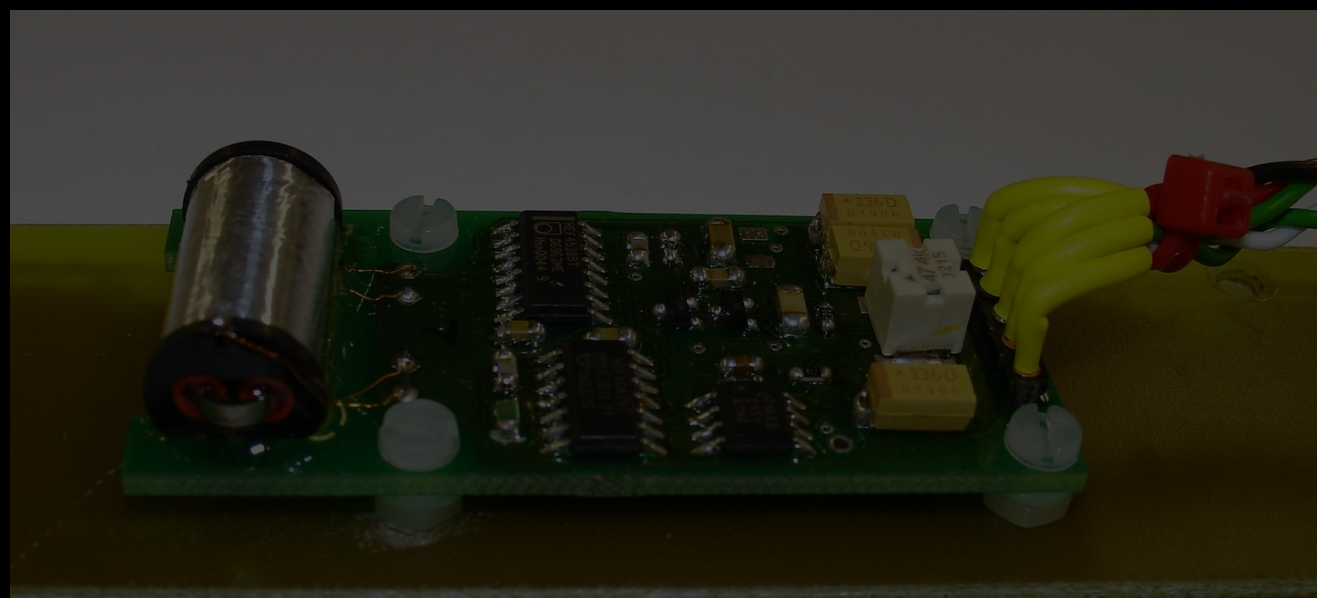
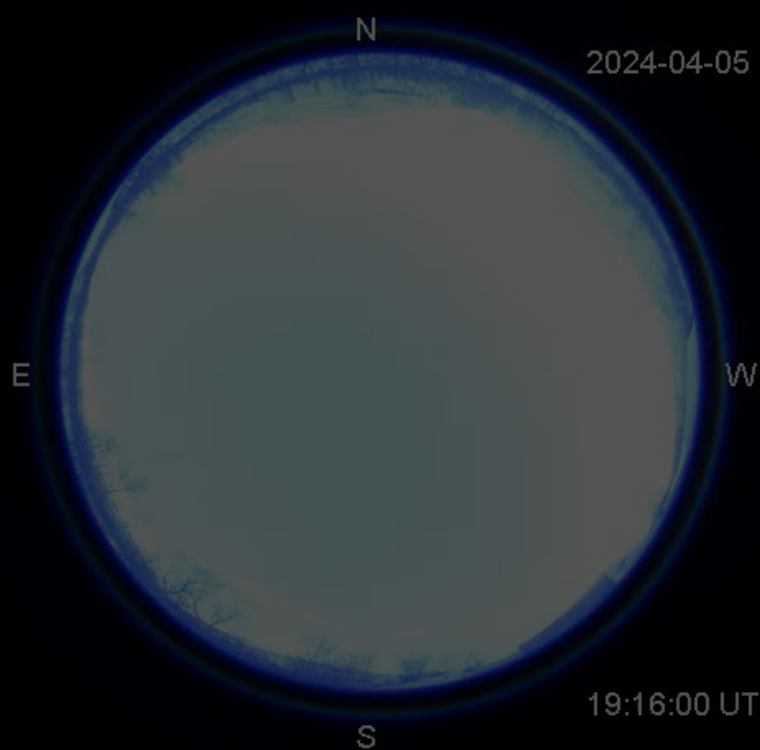
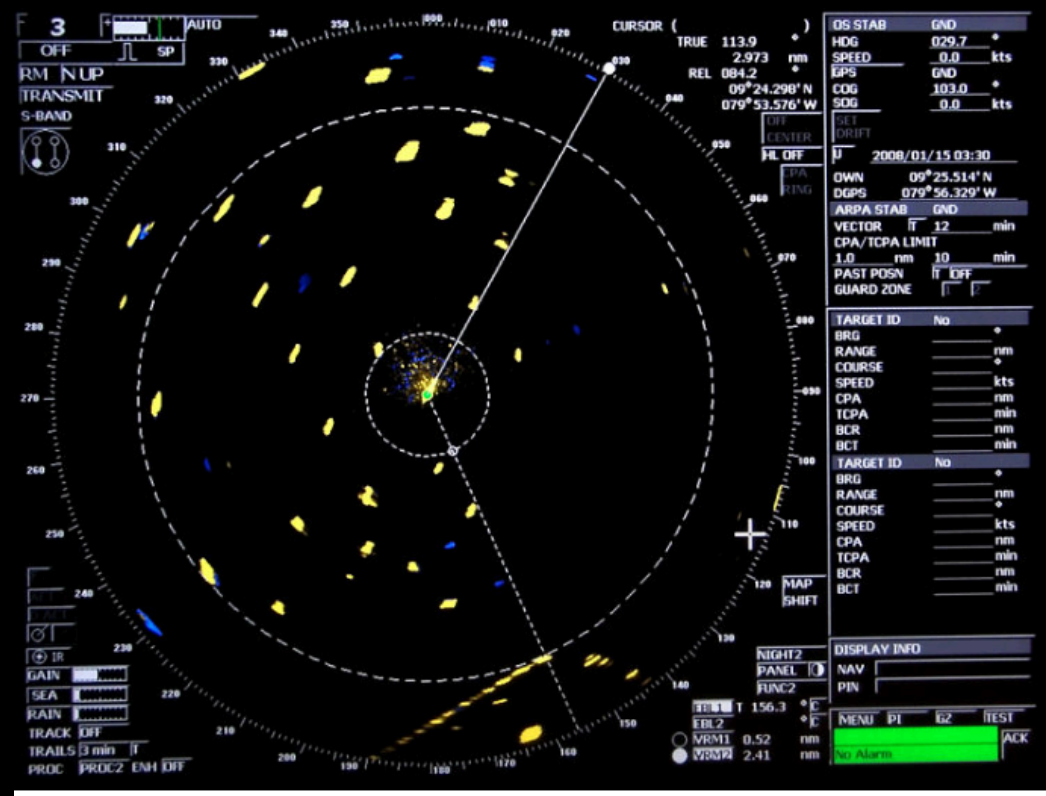
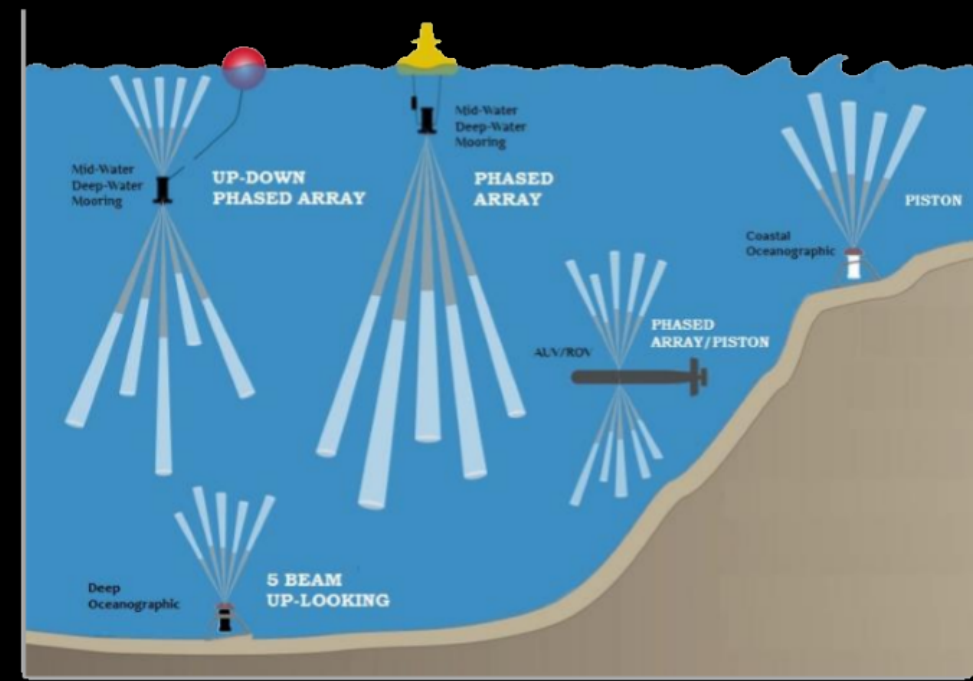


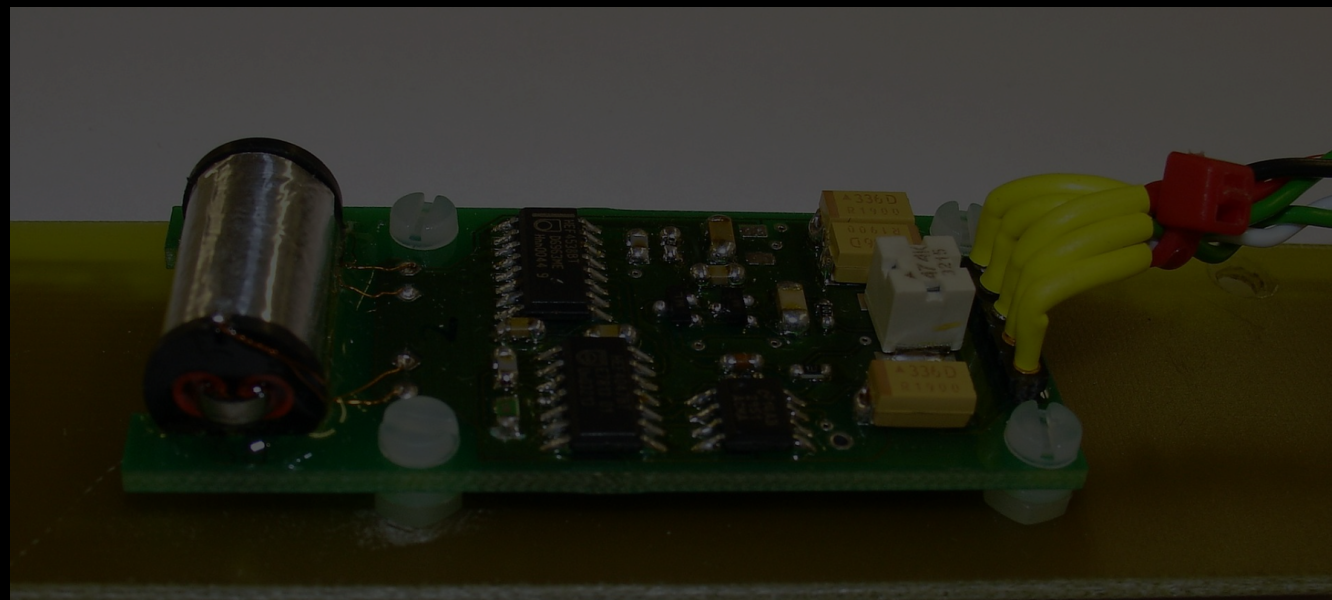
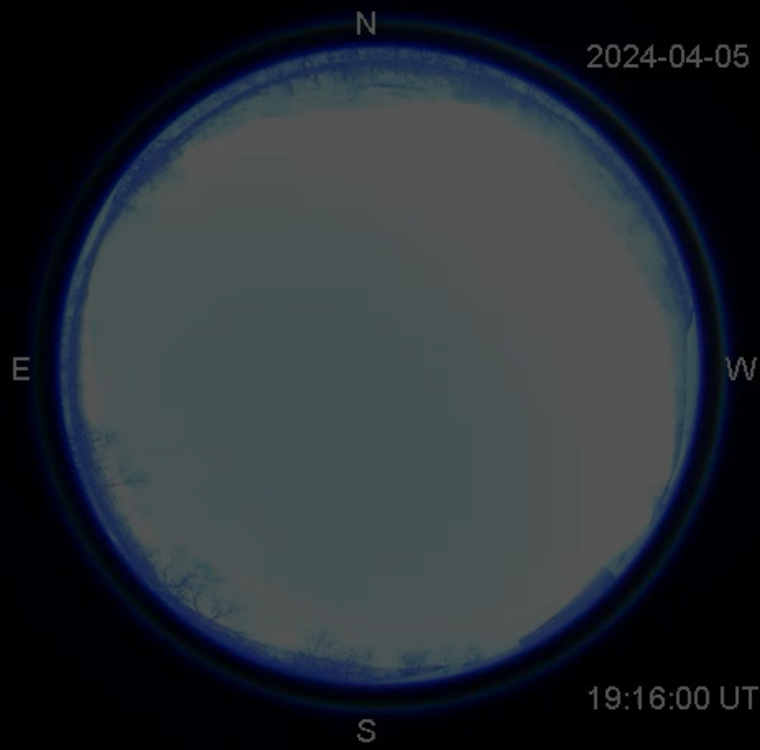
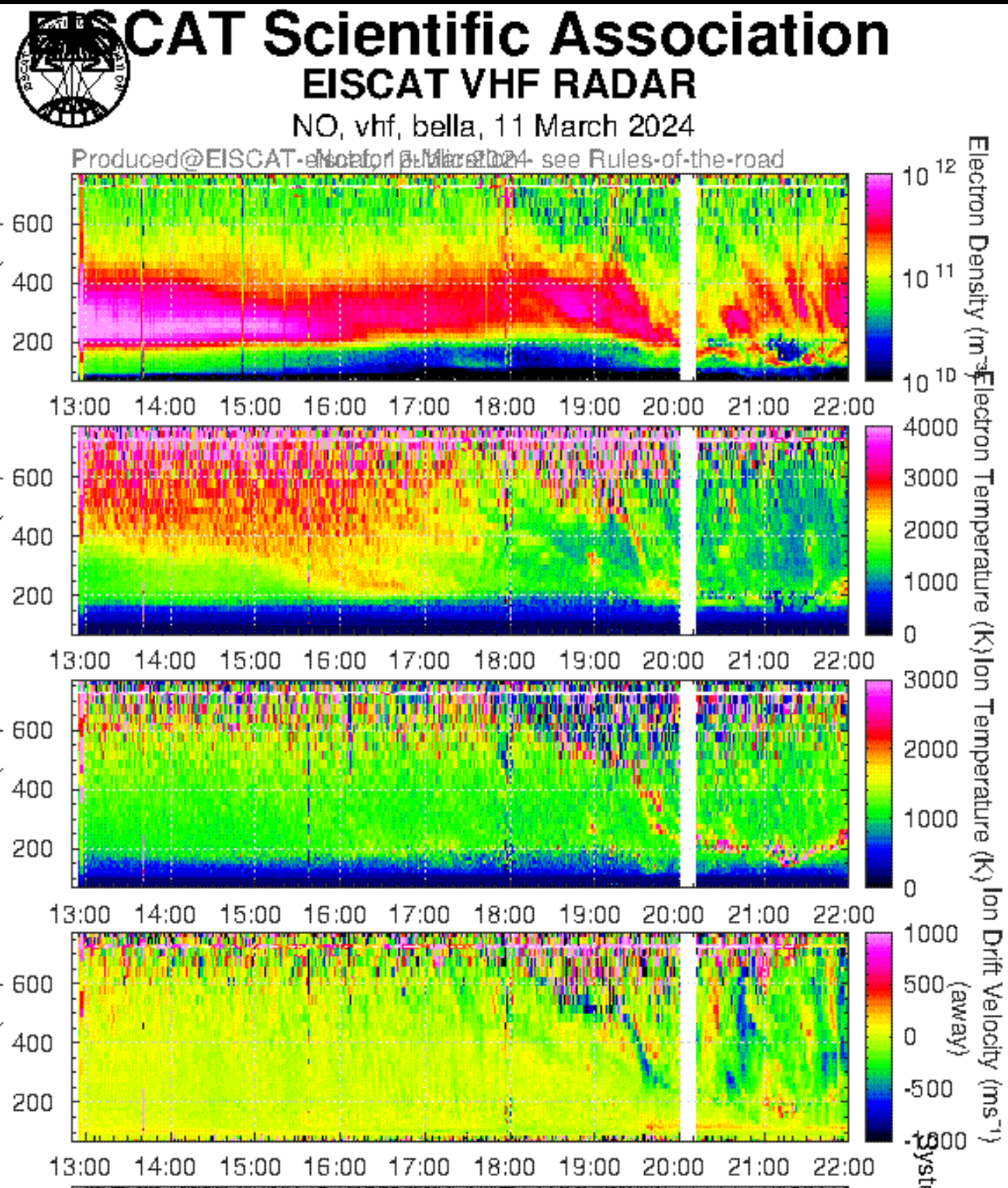
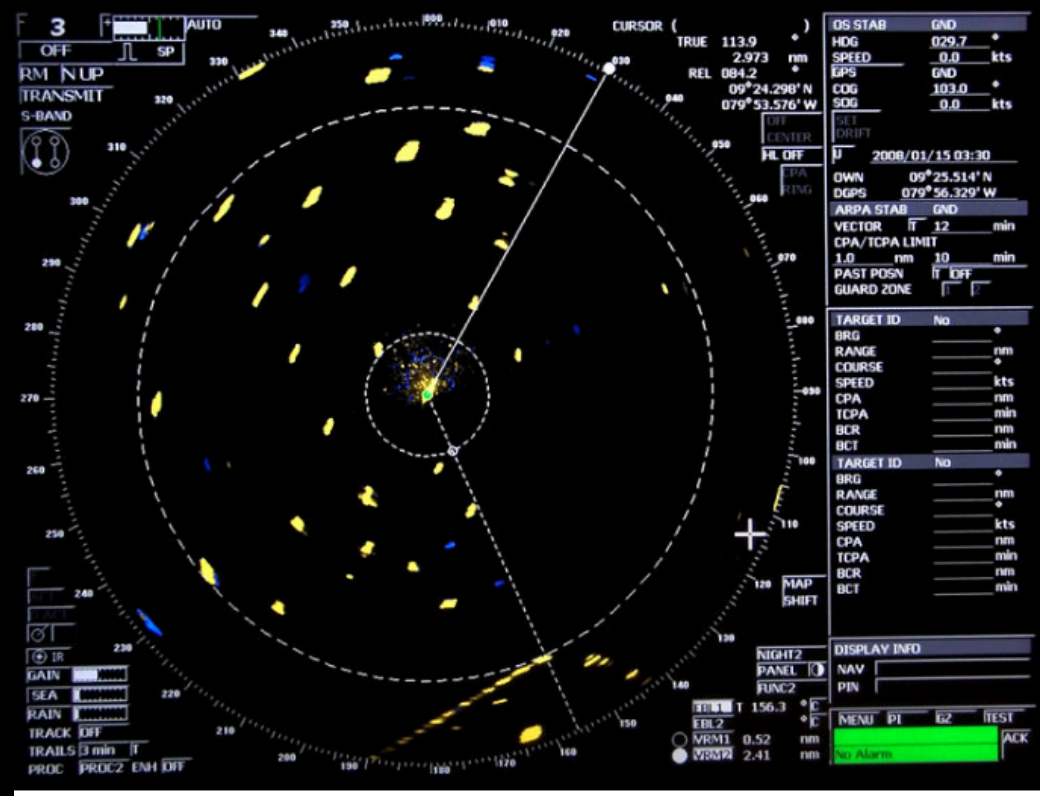


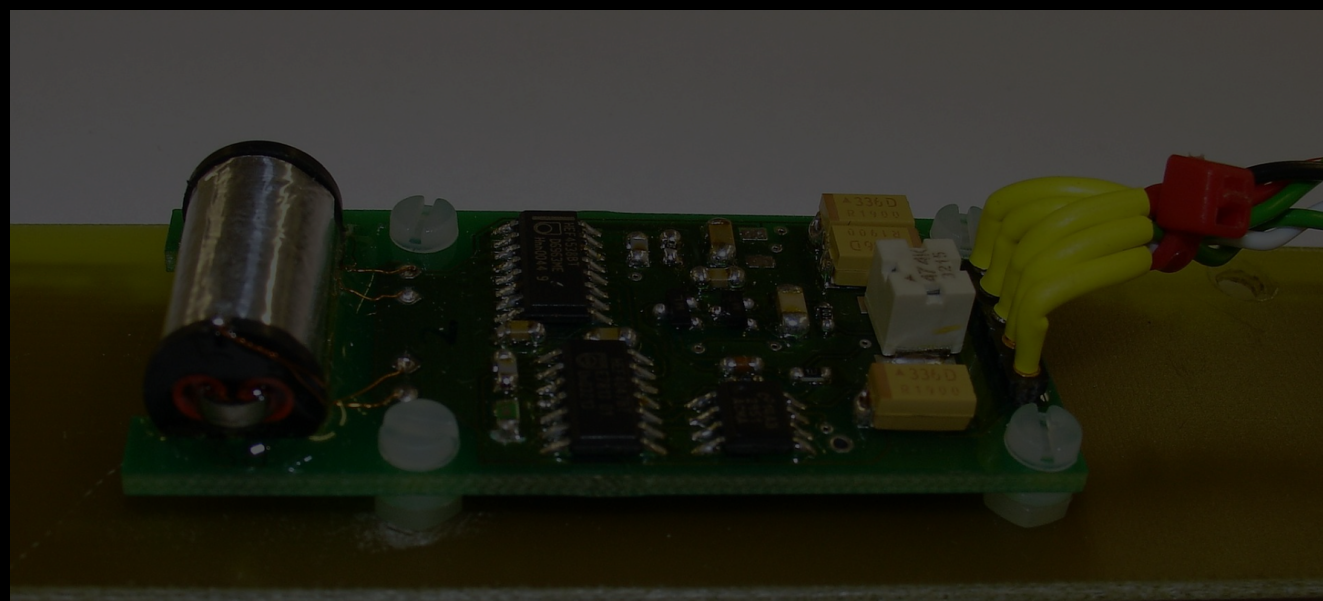
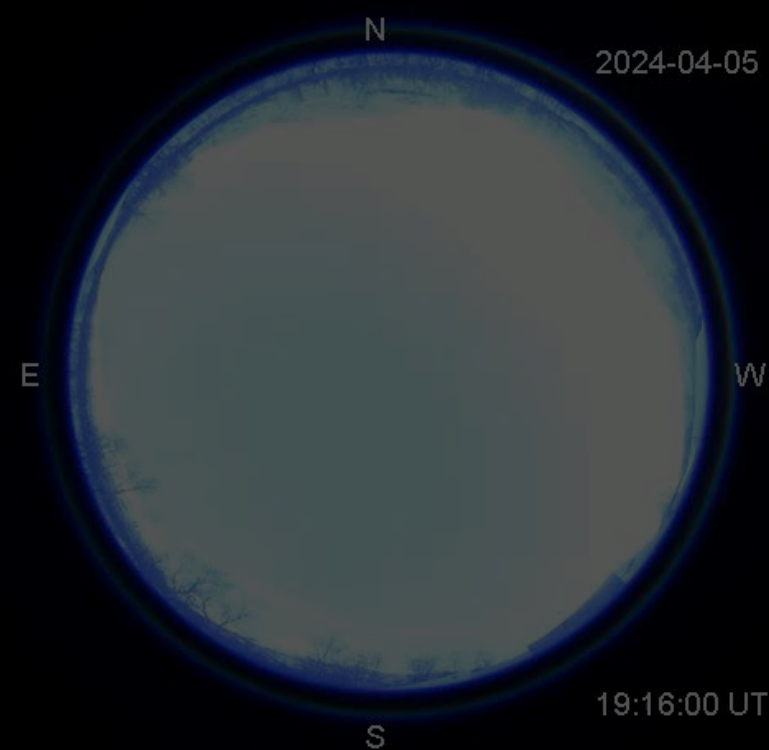
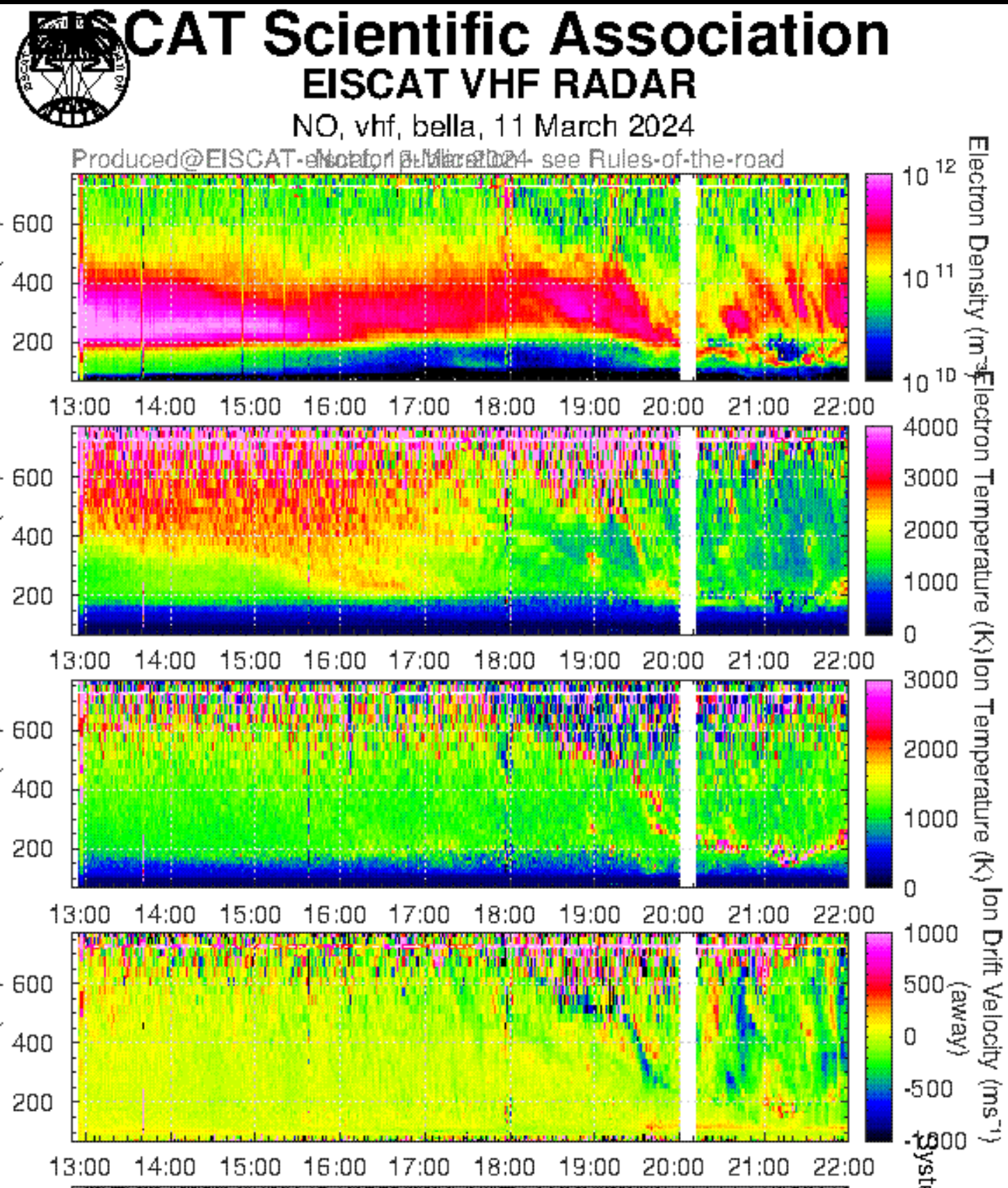
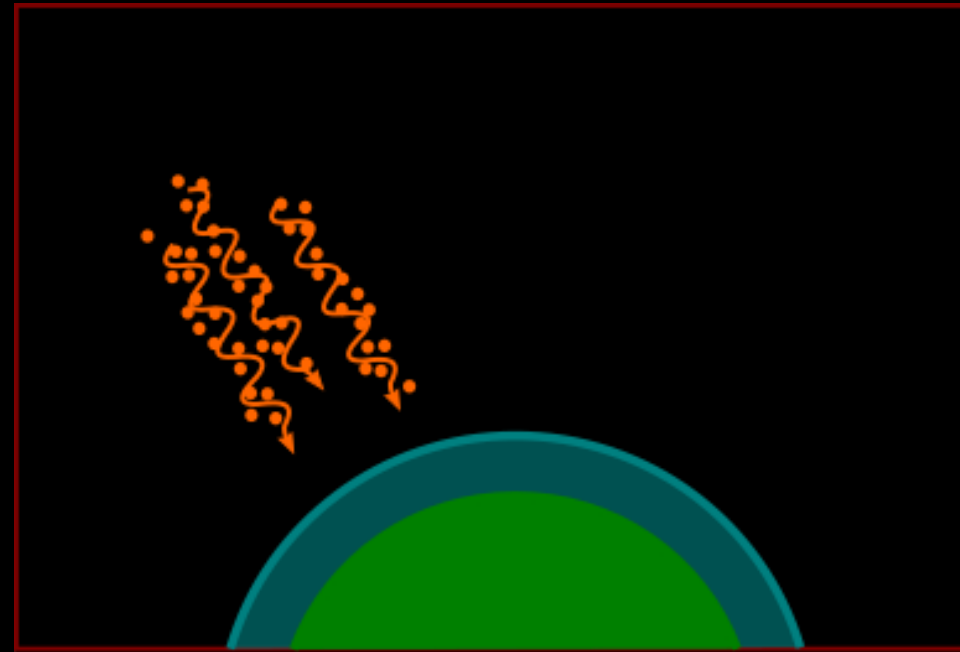


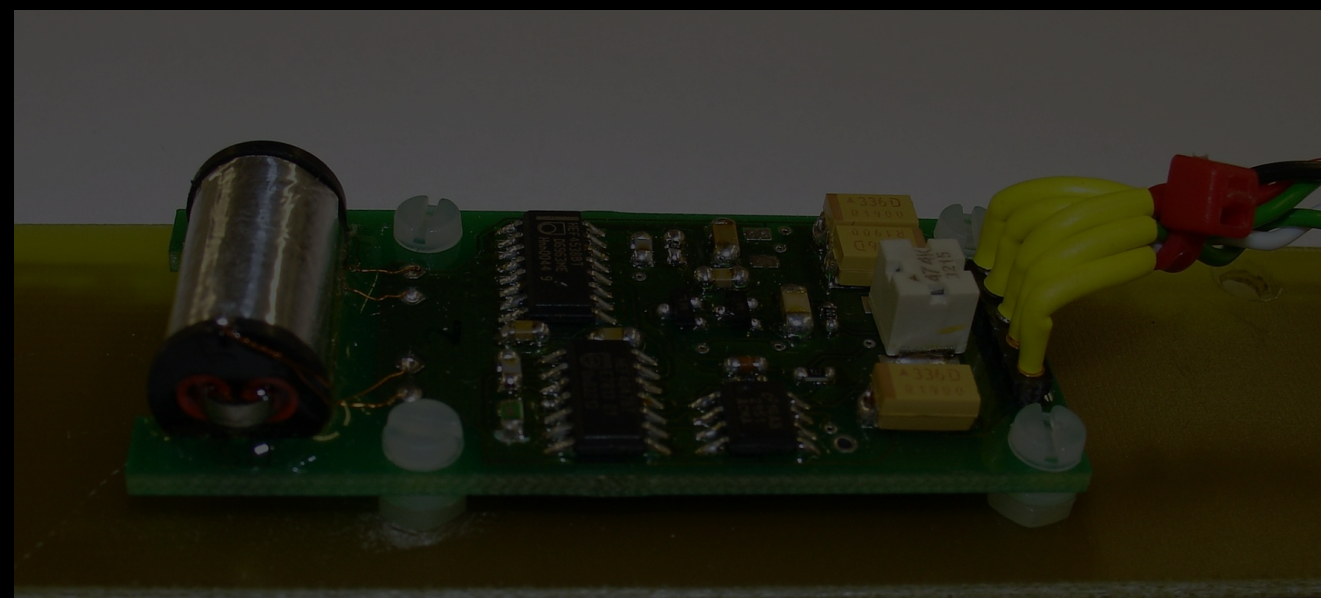
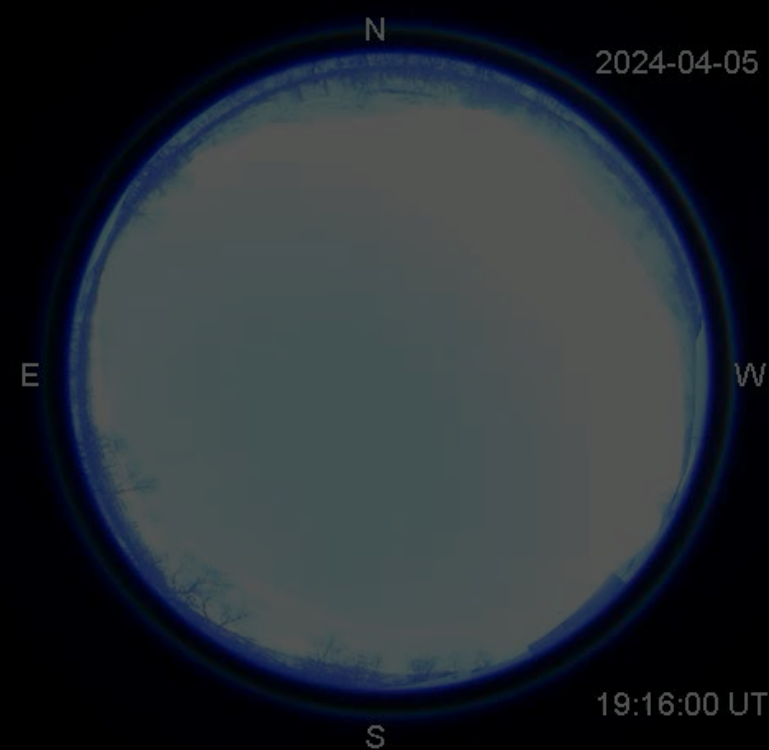
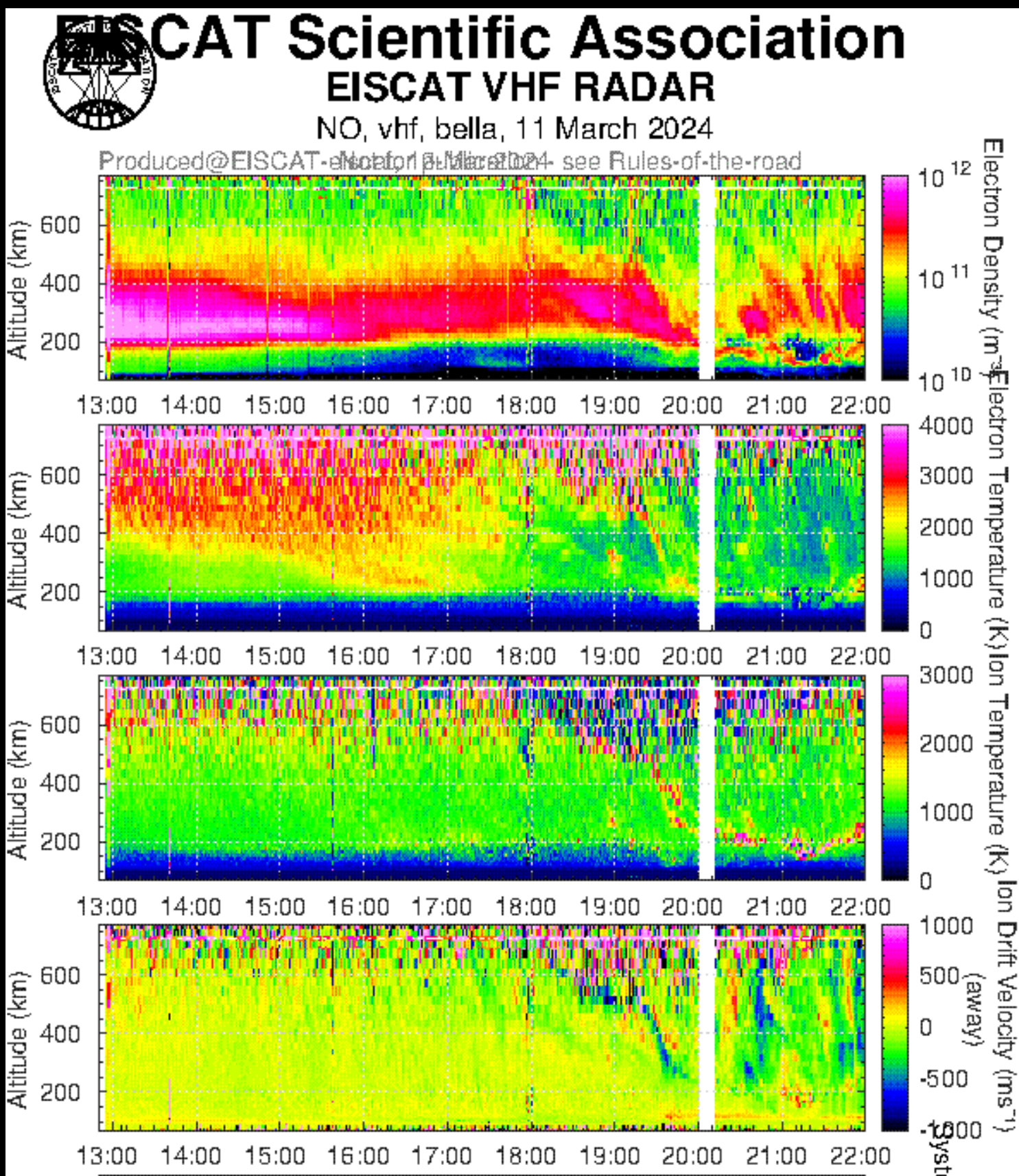
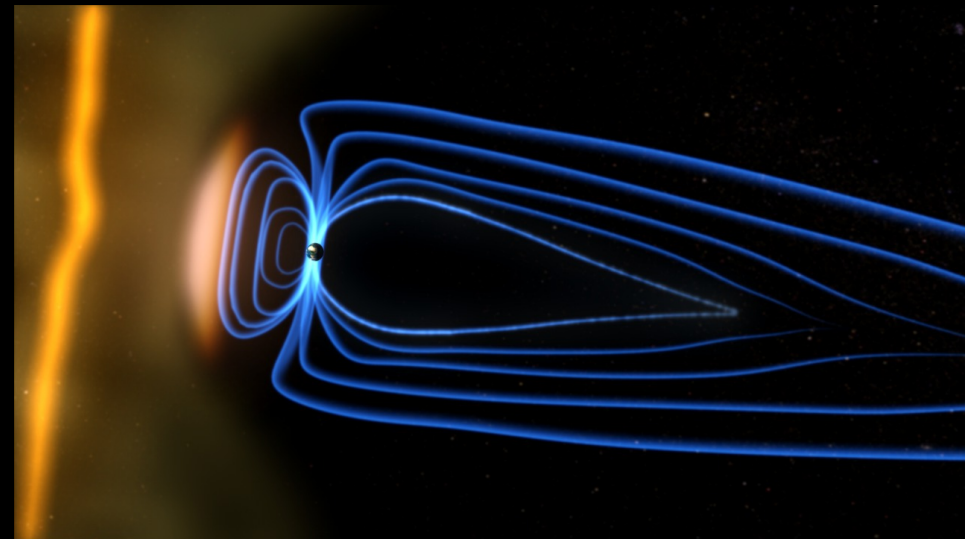
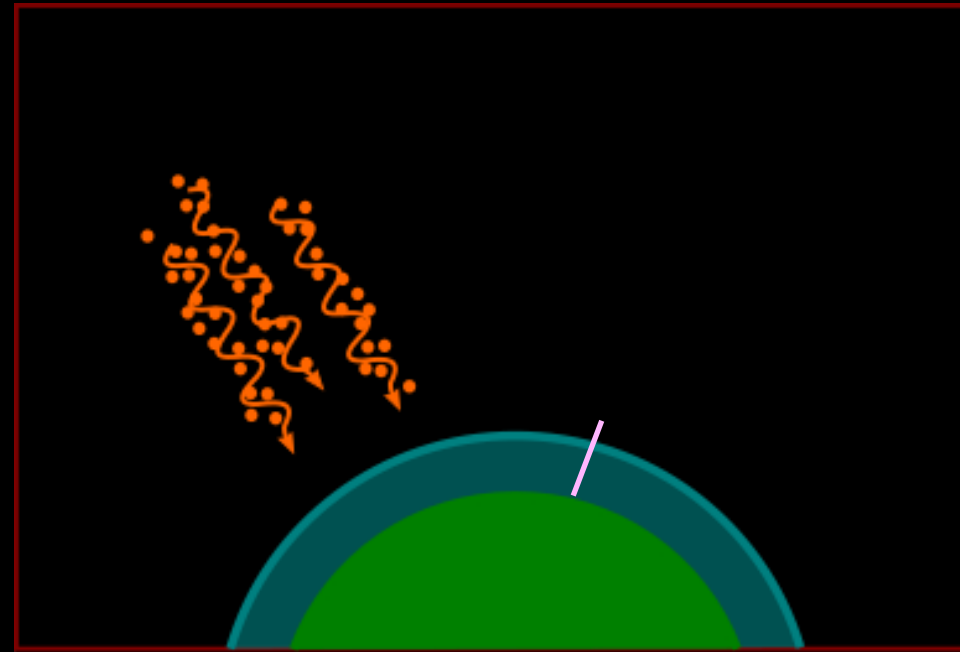


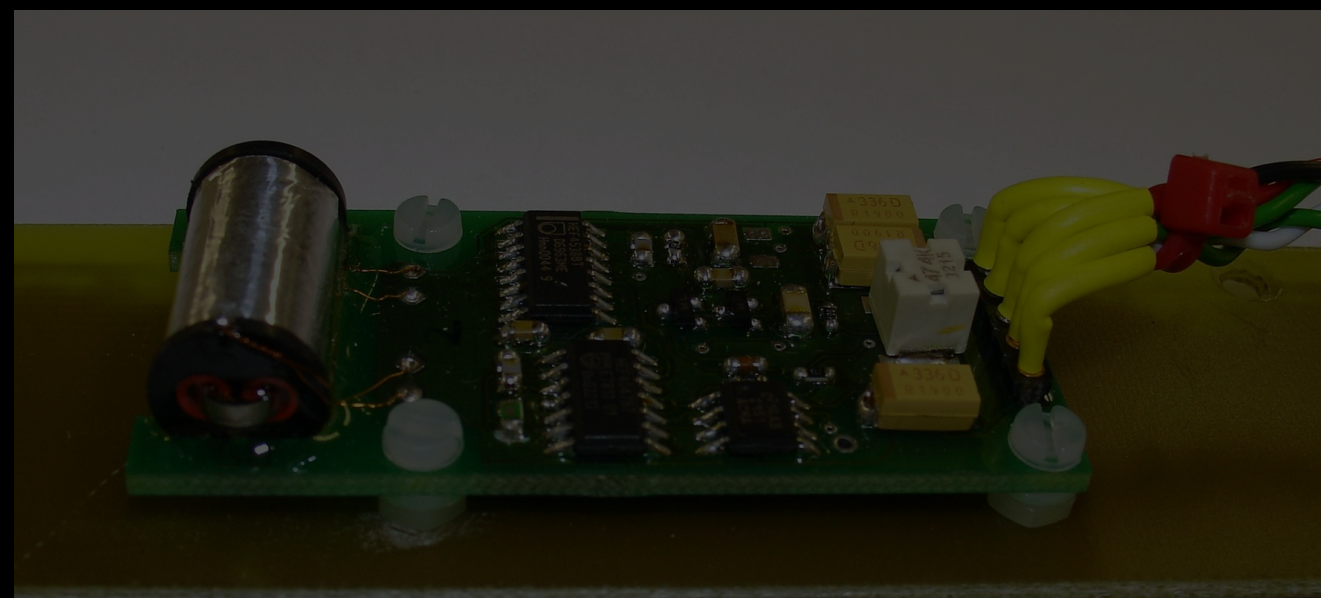
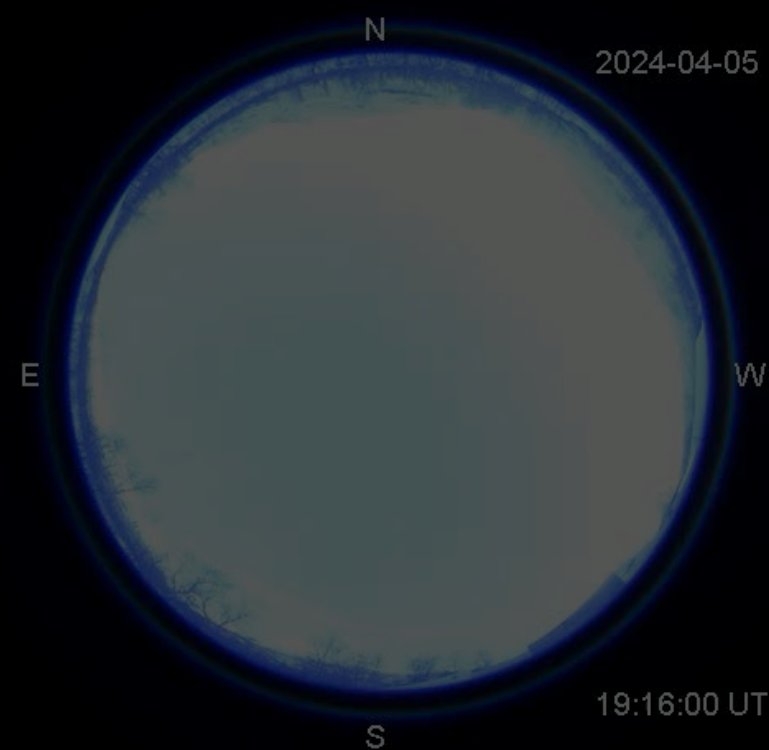
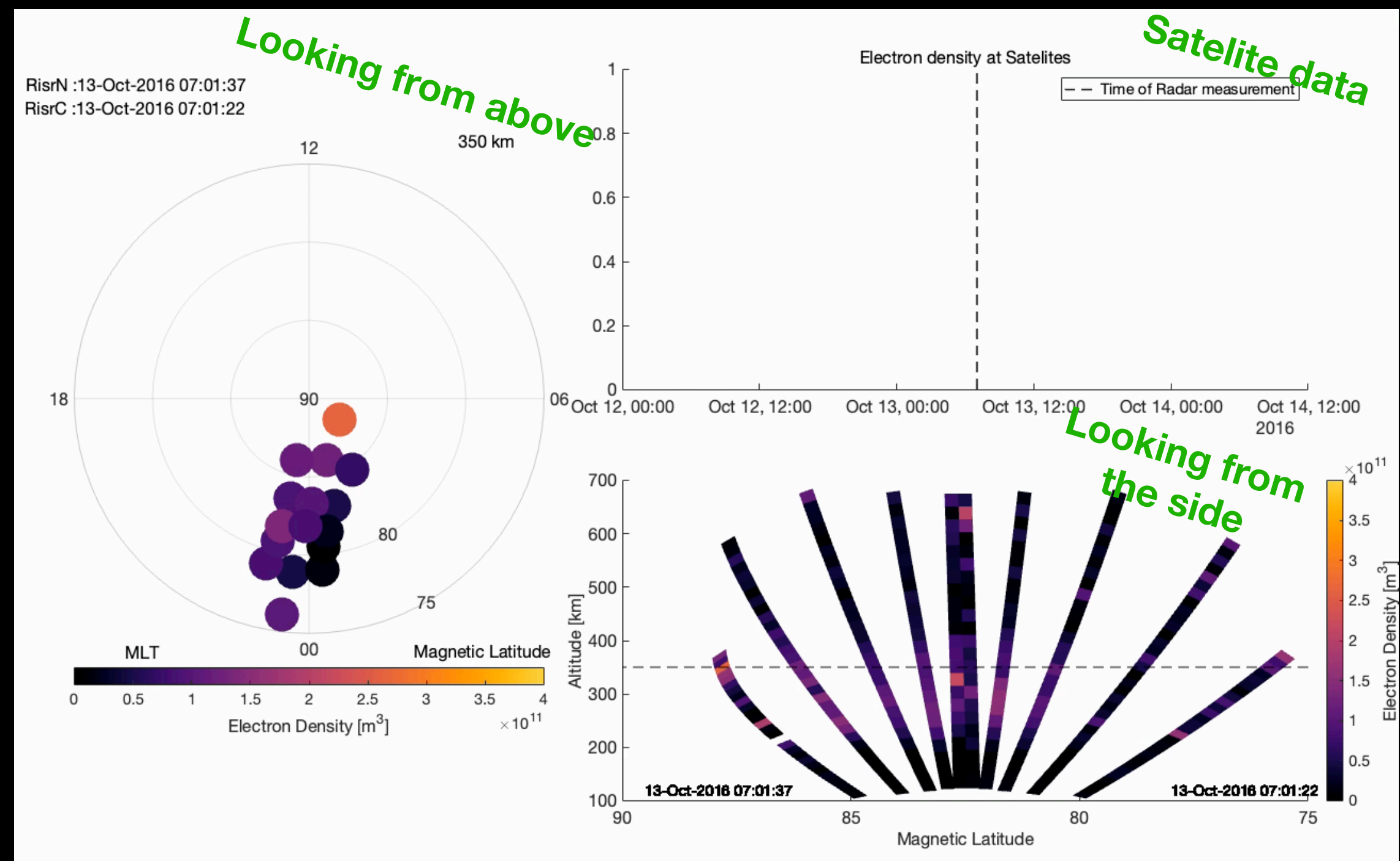
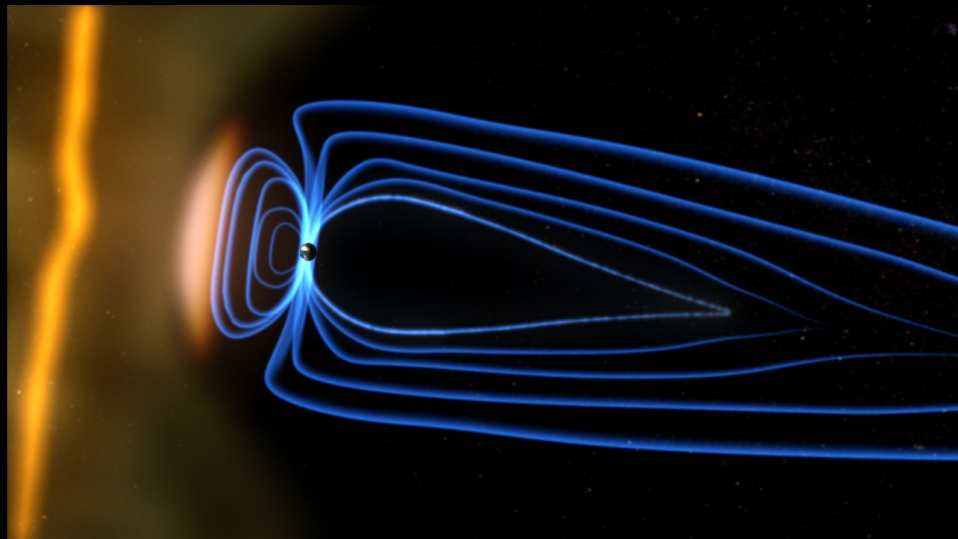
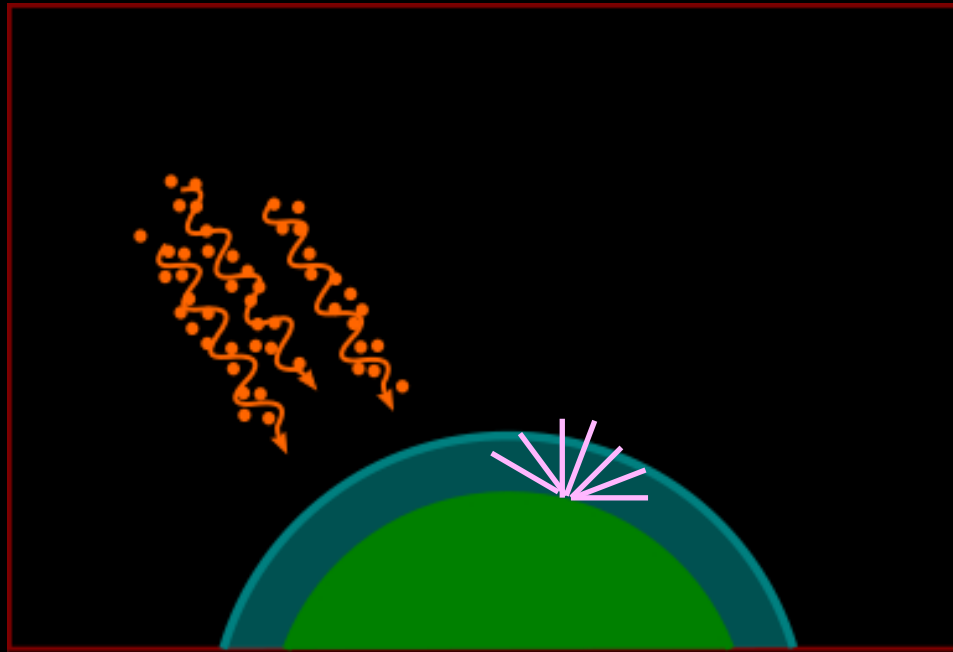


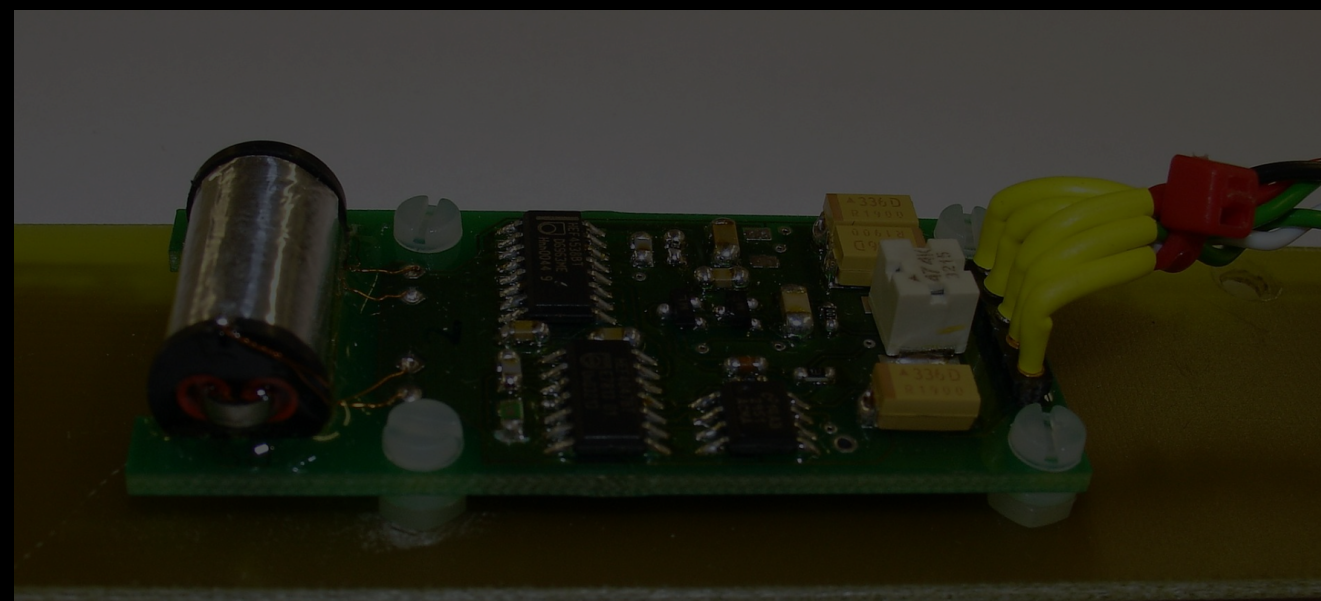
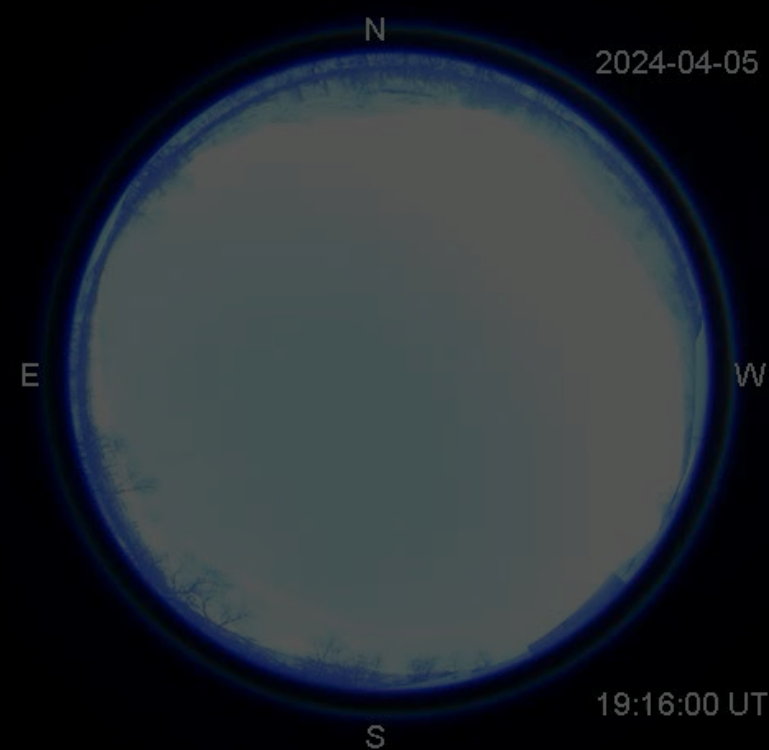
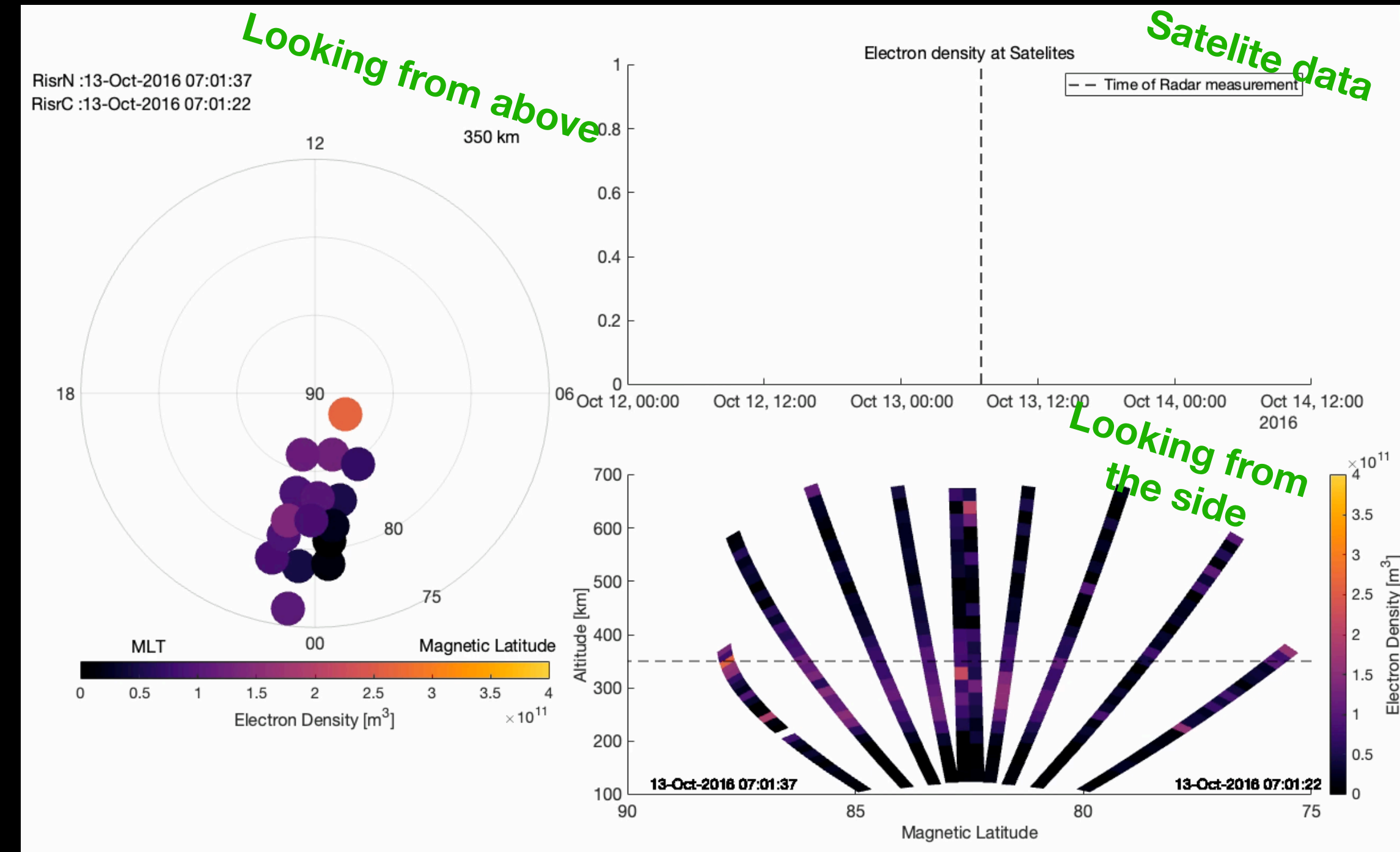
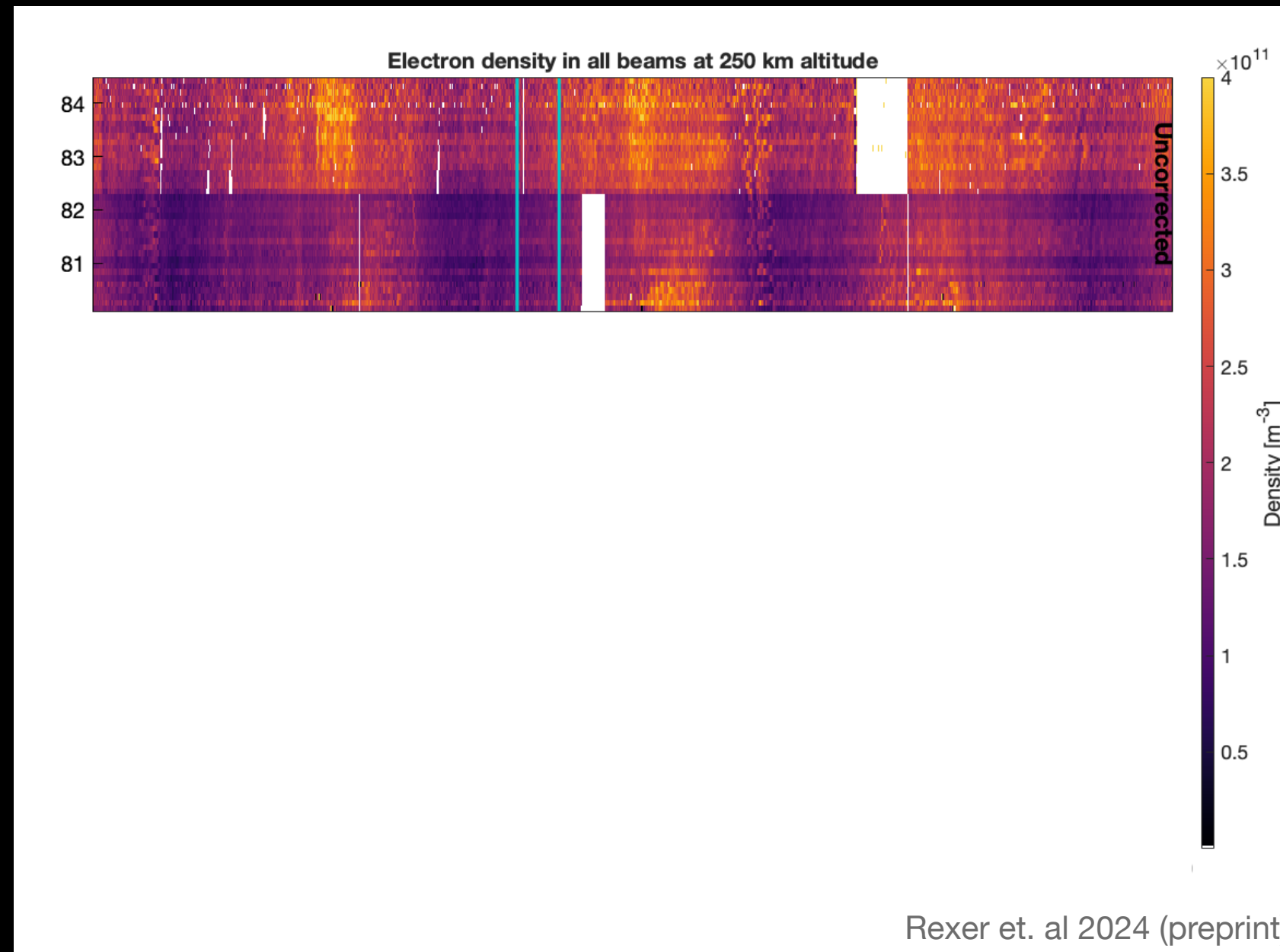
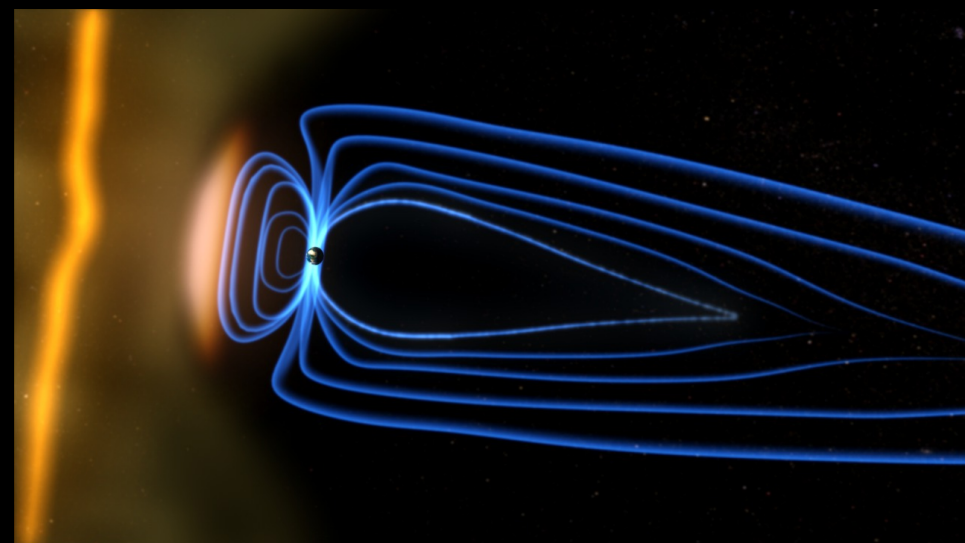
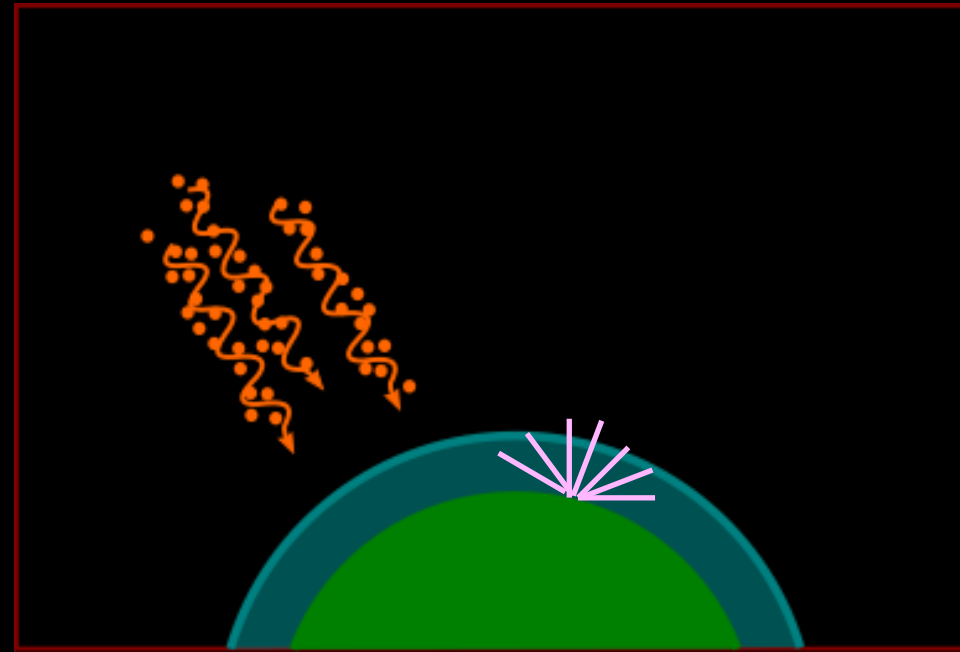


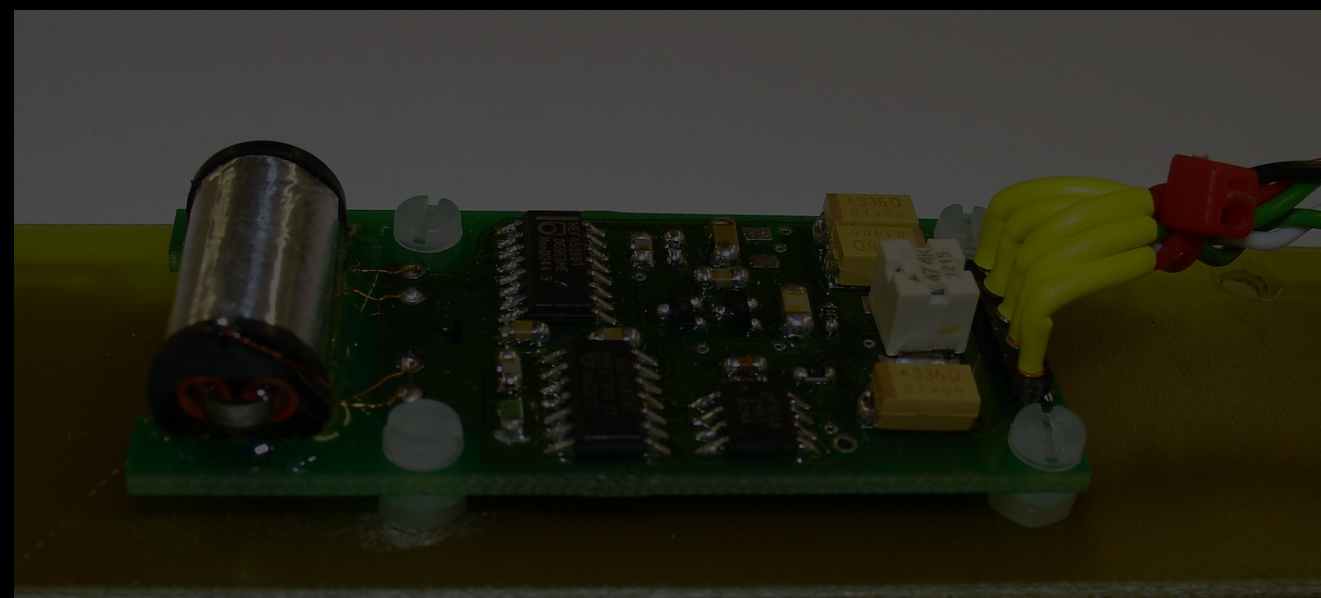
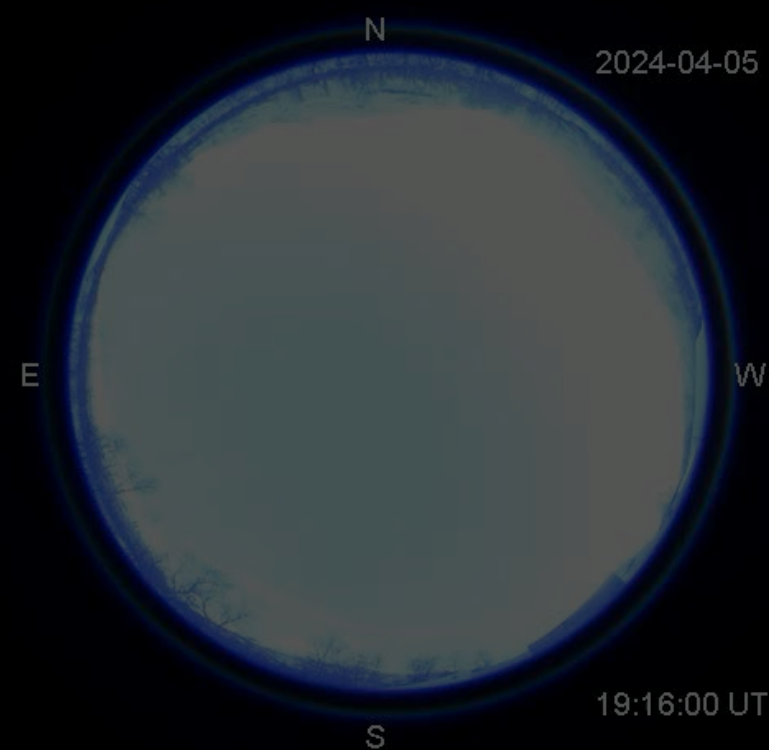
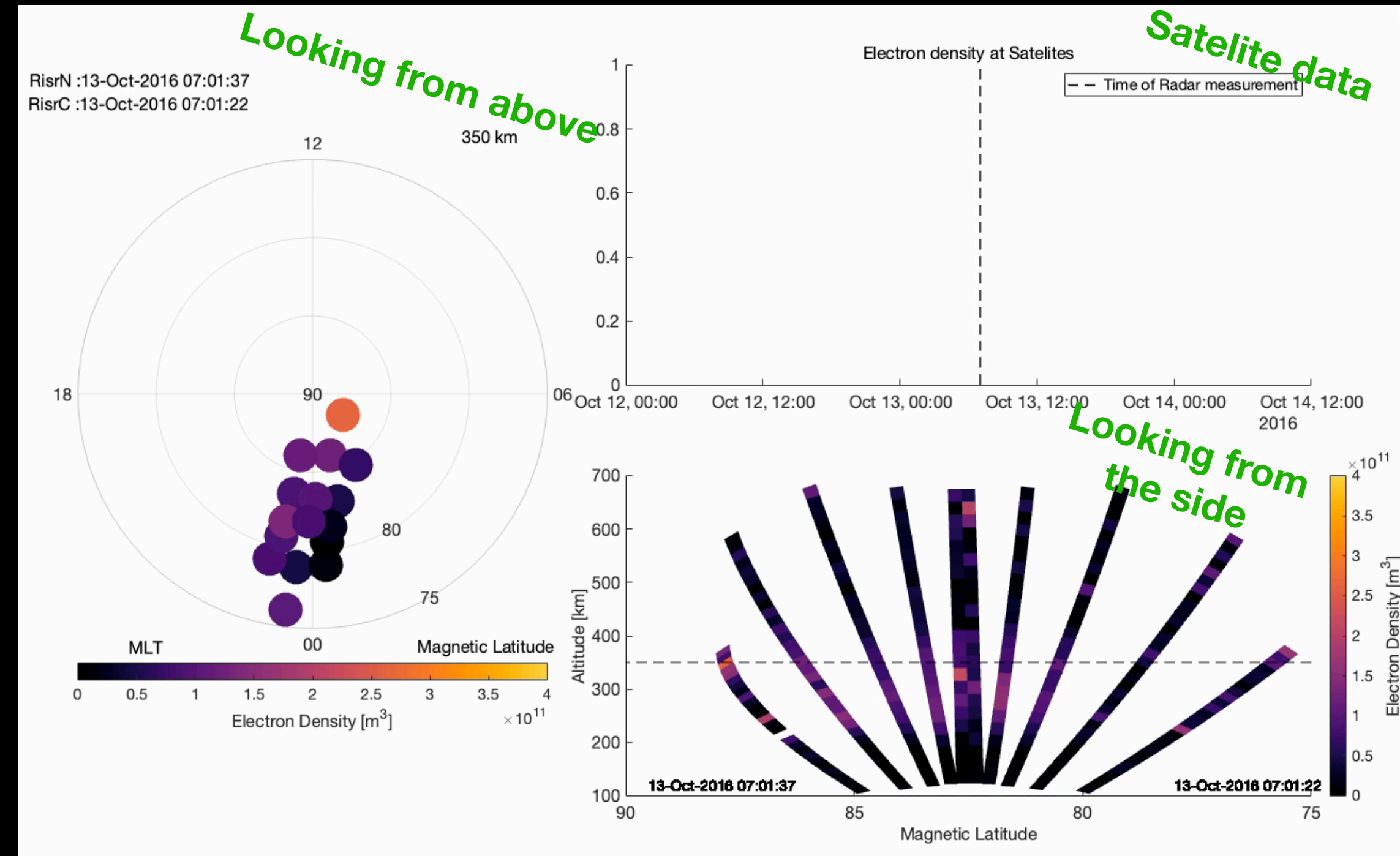
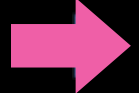
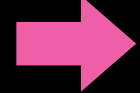
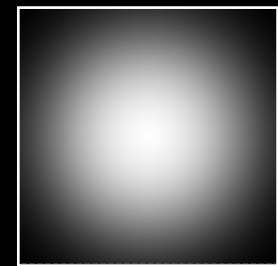
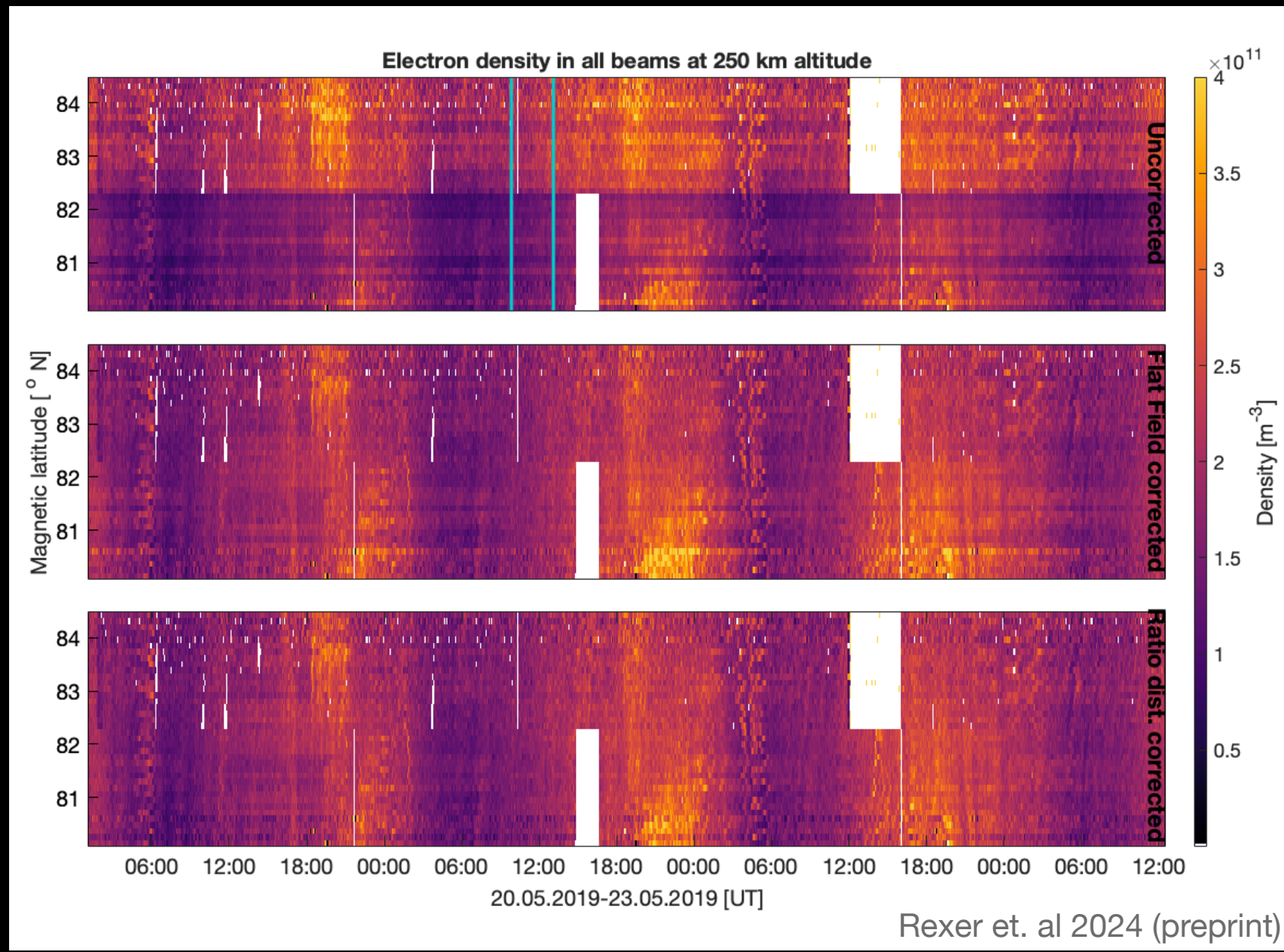
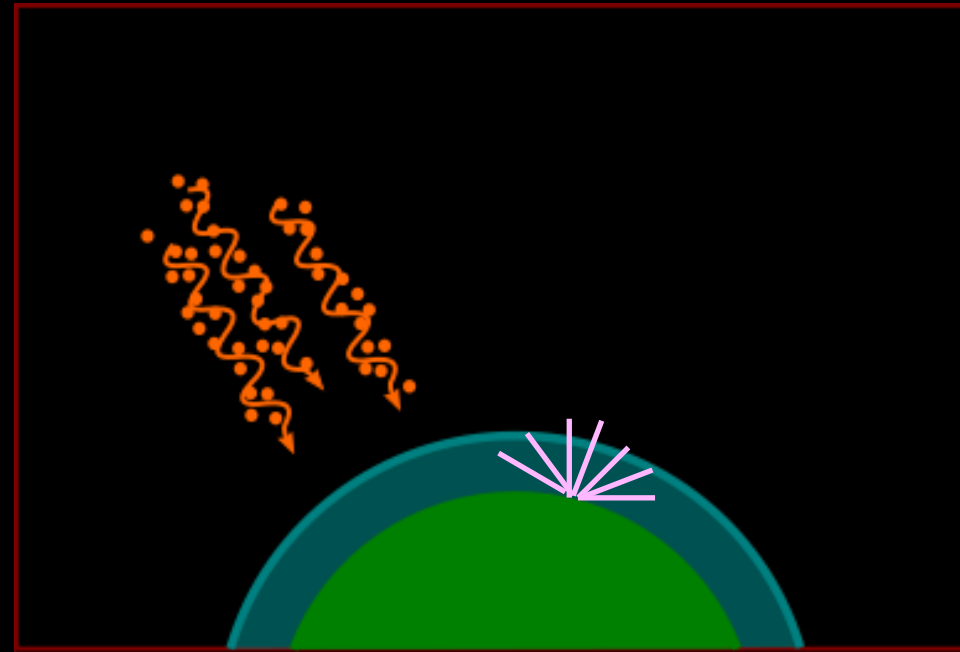


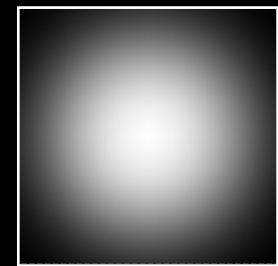
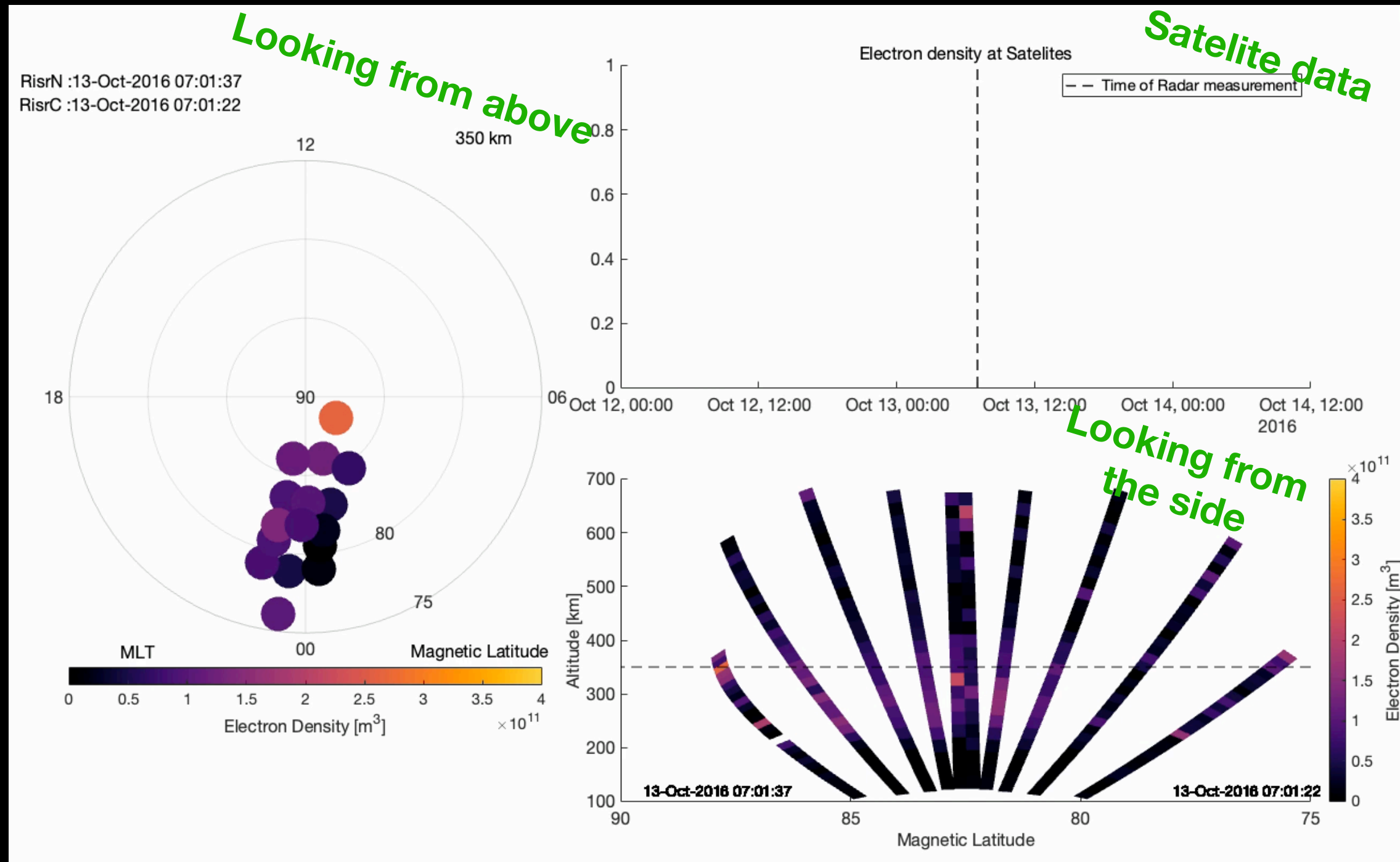
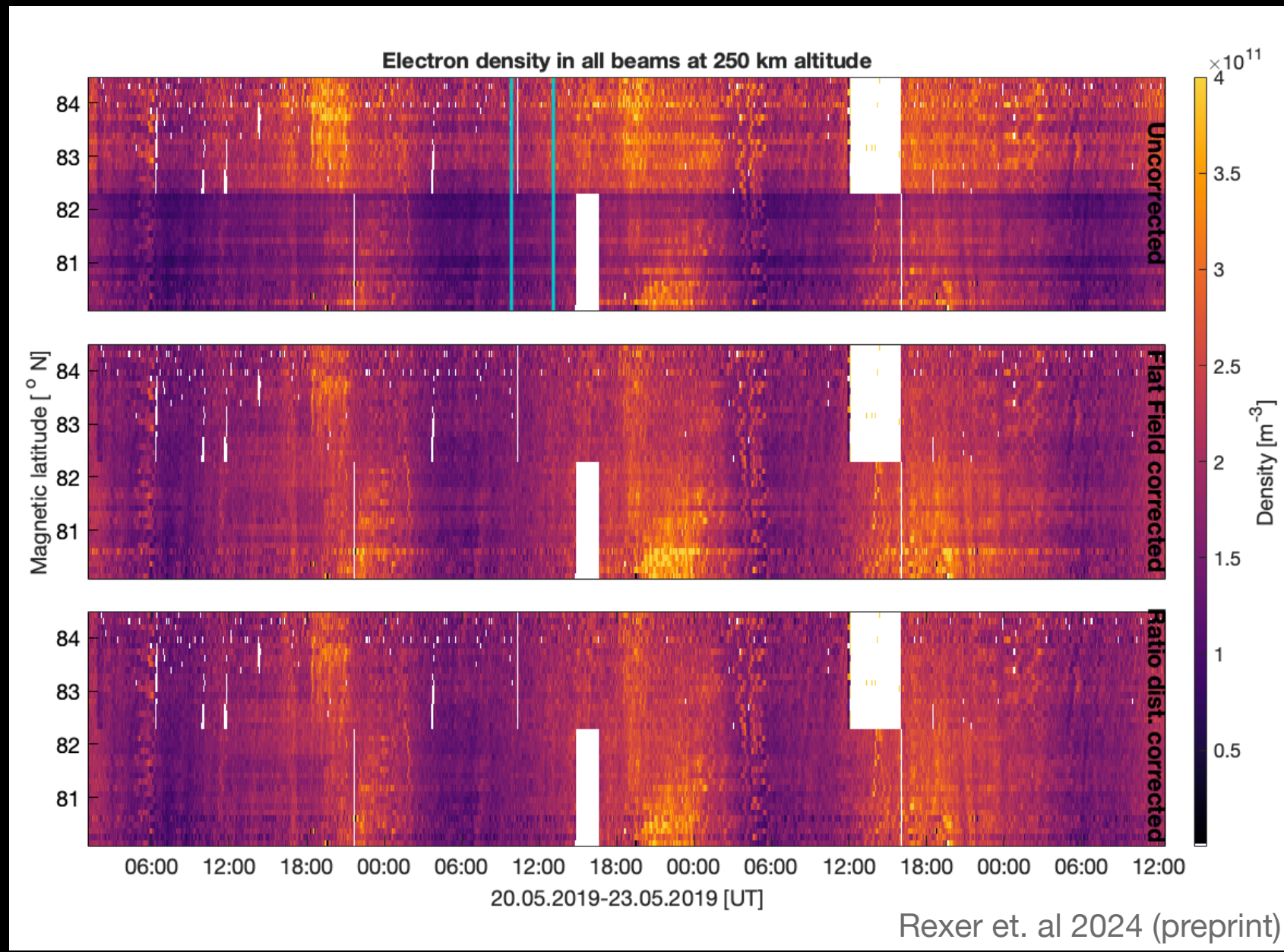
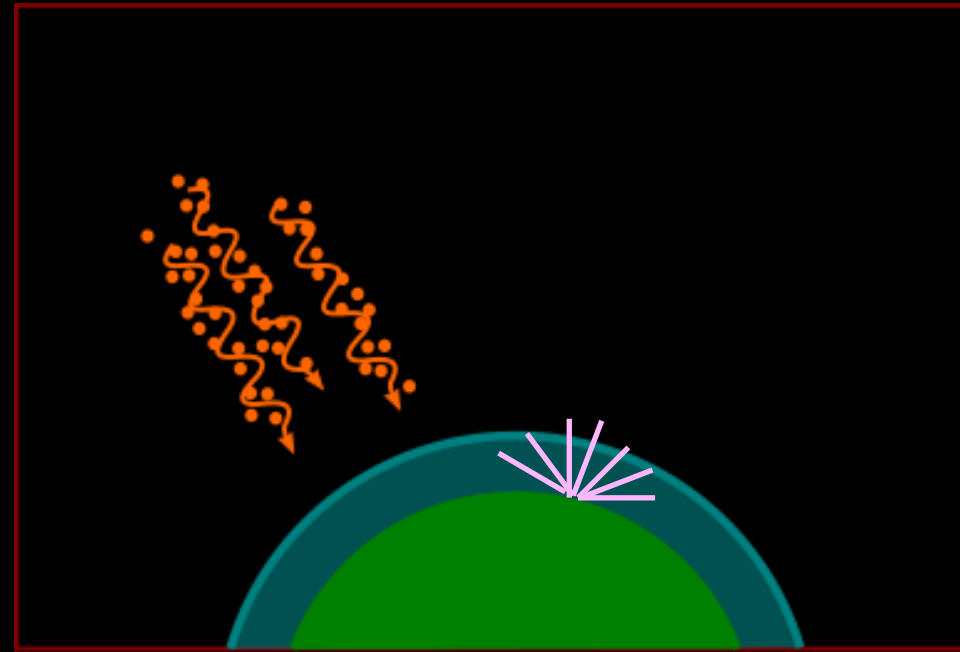












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 Preprint. Discussion started: 17 January 2024
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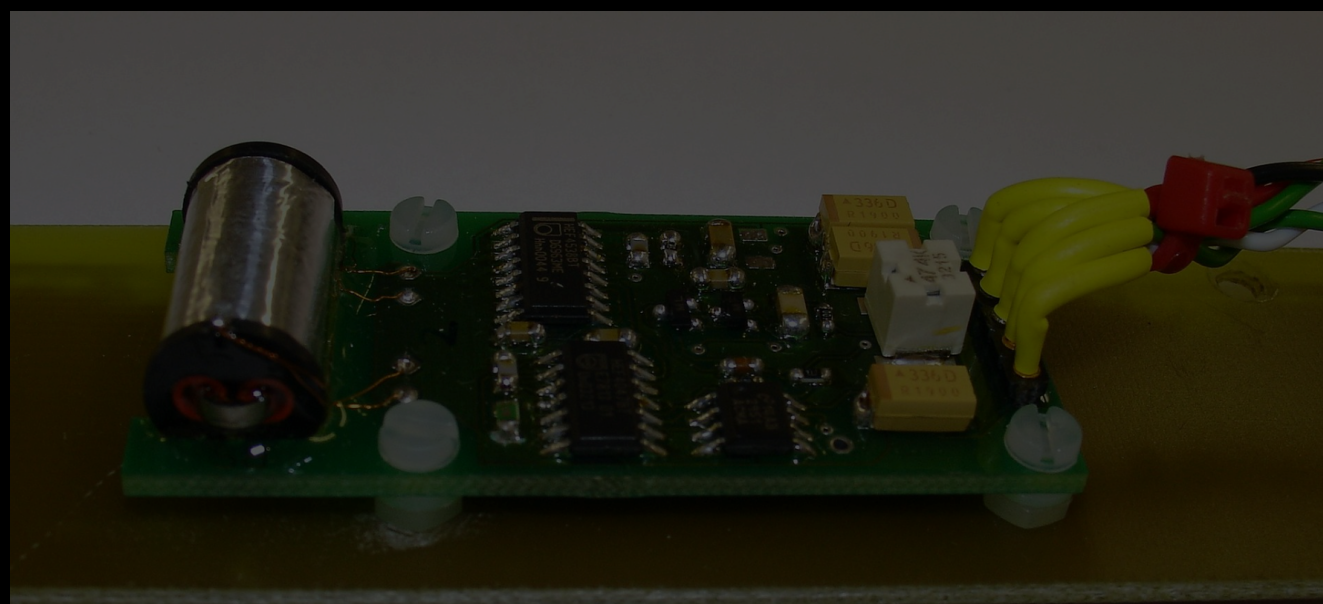
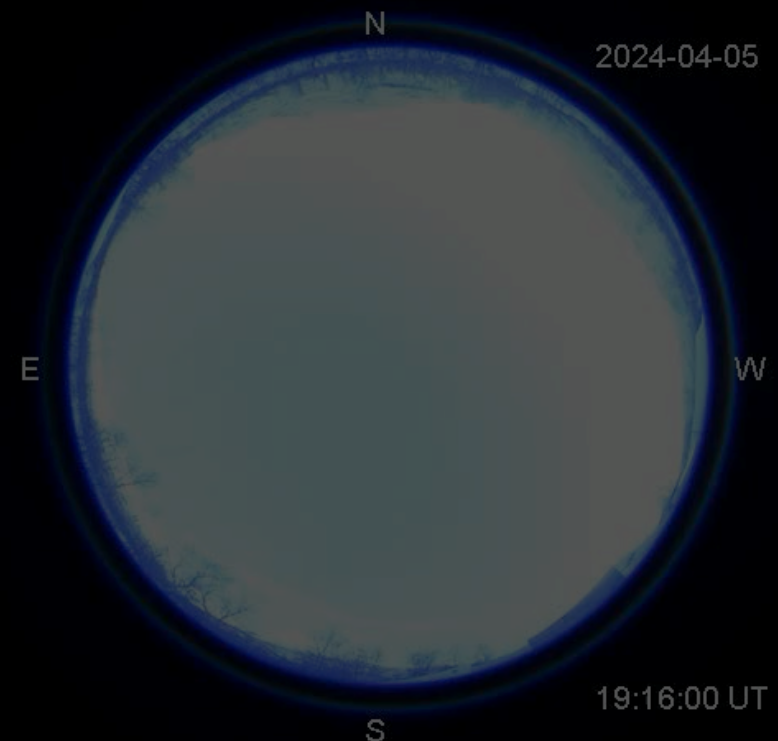


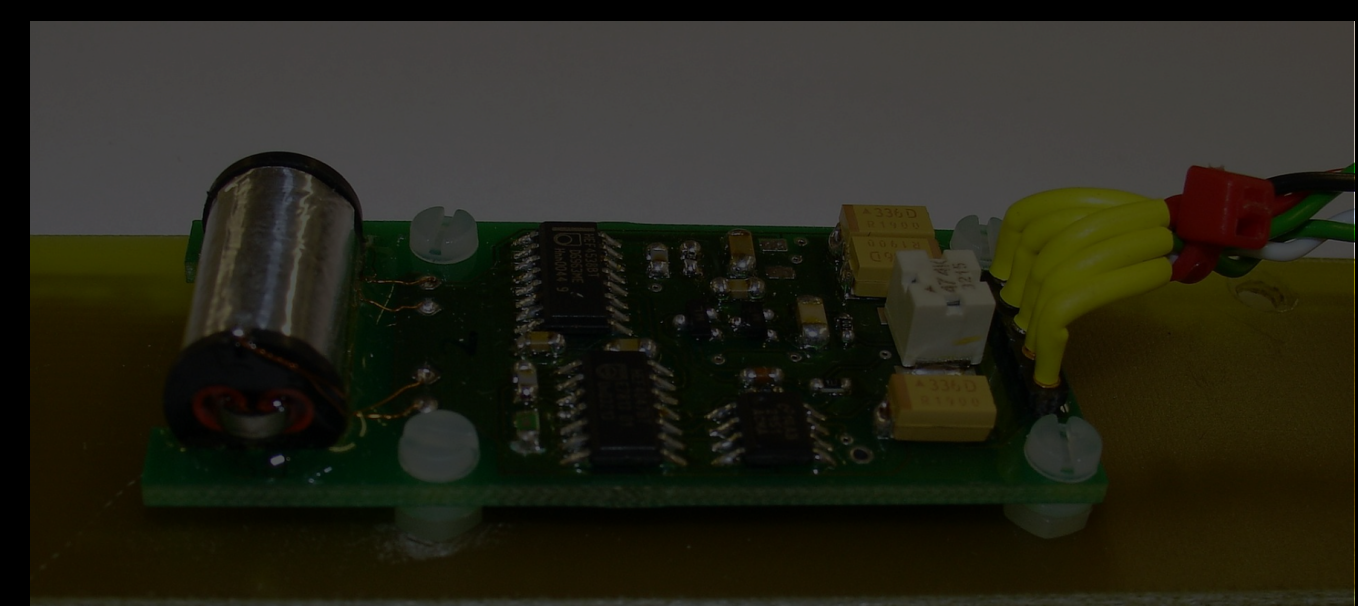
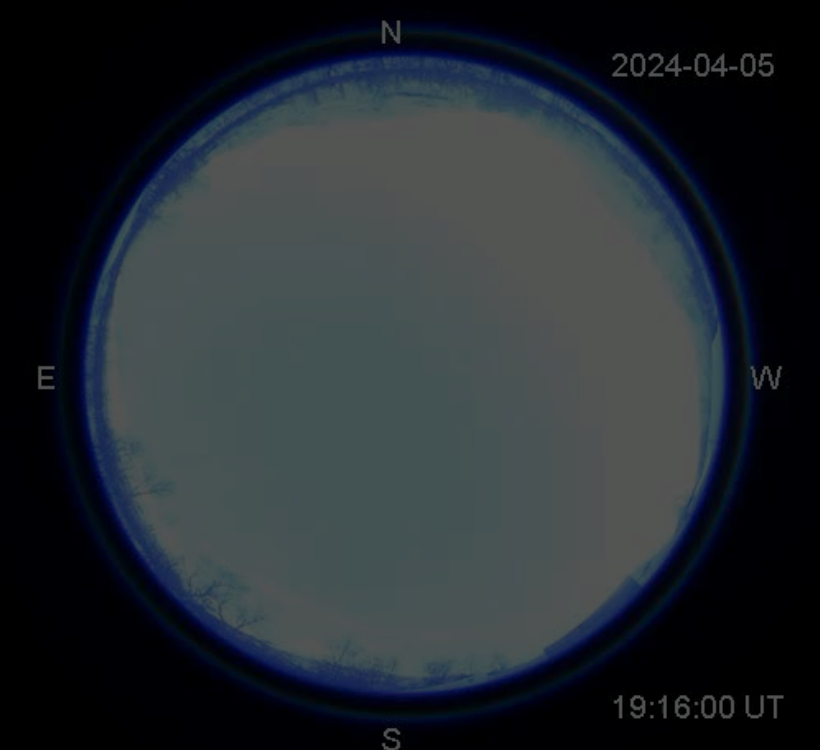
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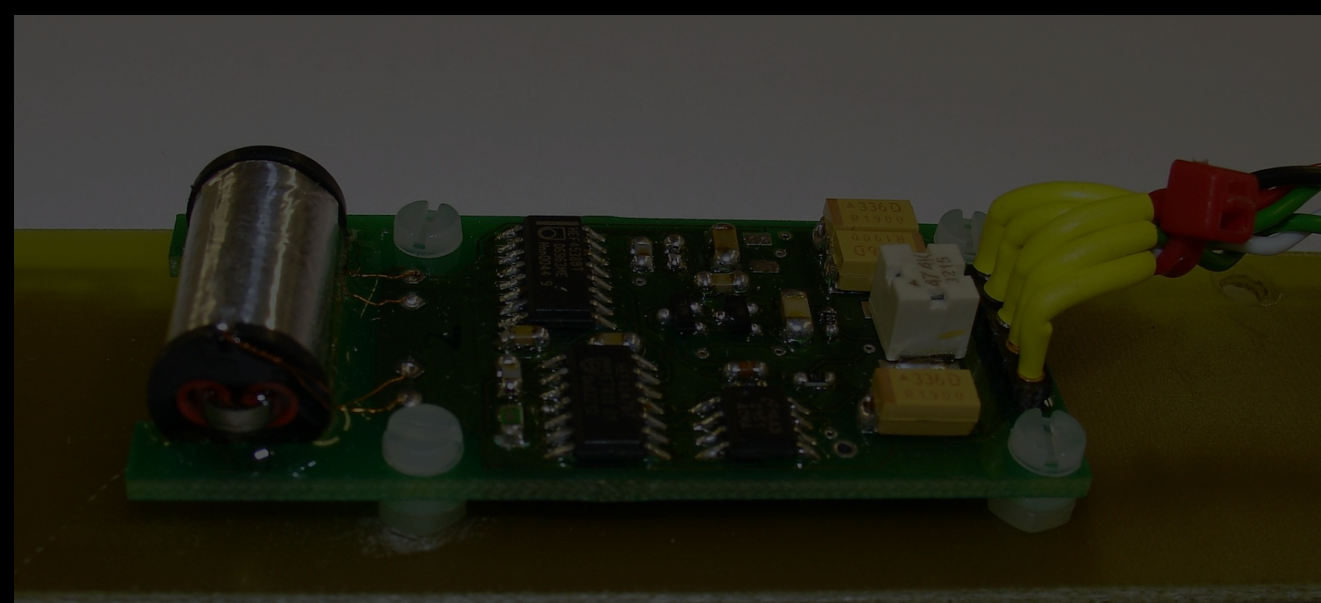
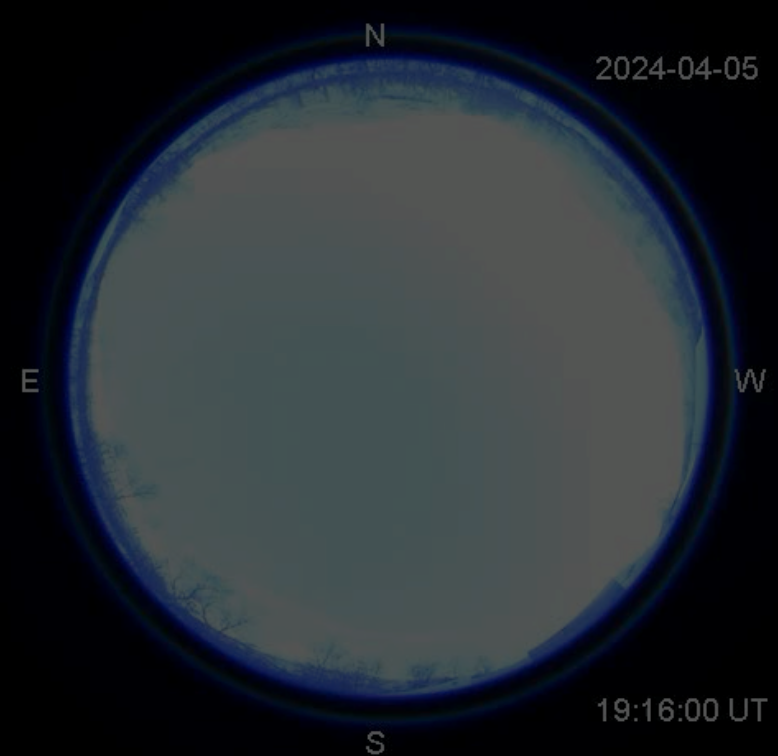
Improving the Magic constant - data-based calibration of phased array radars

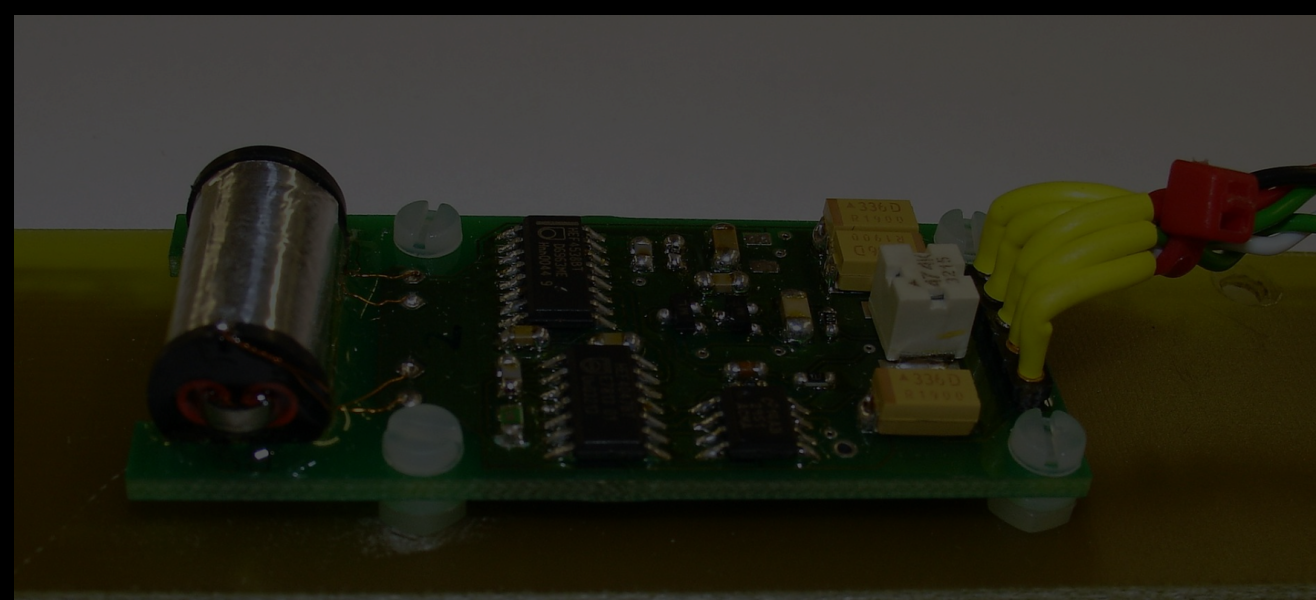
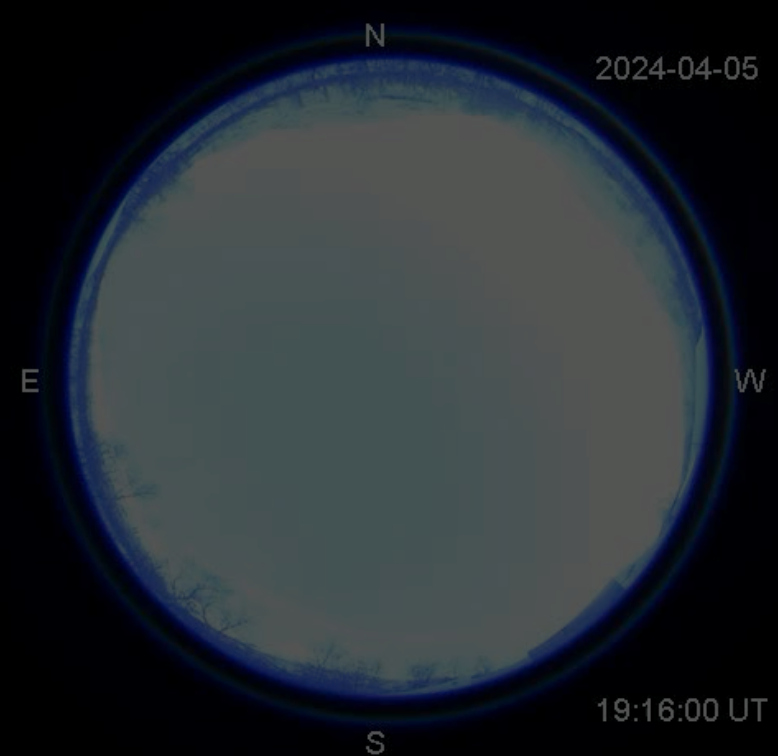
Theresa Rexer¹, Björn Gustavsson¹, Juha Vierinen¹, Andres Spicher¹, Devin Ray Huyghebaert^{1,4},
 Andreas Kvammen¹, Robert Gillies³, and Asti Bhatt²

$$P_{RX} + \eta = \frac{\Delta N_e P_{TX}}{R^2 \left(1 + \frac{T_e}{T_i}\right)}$$

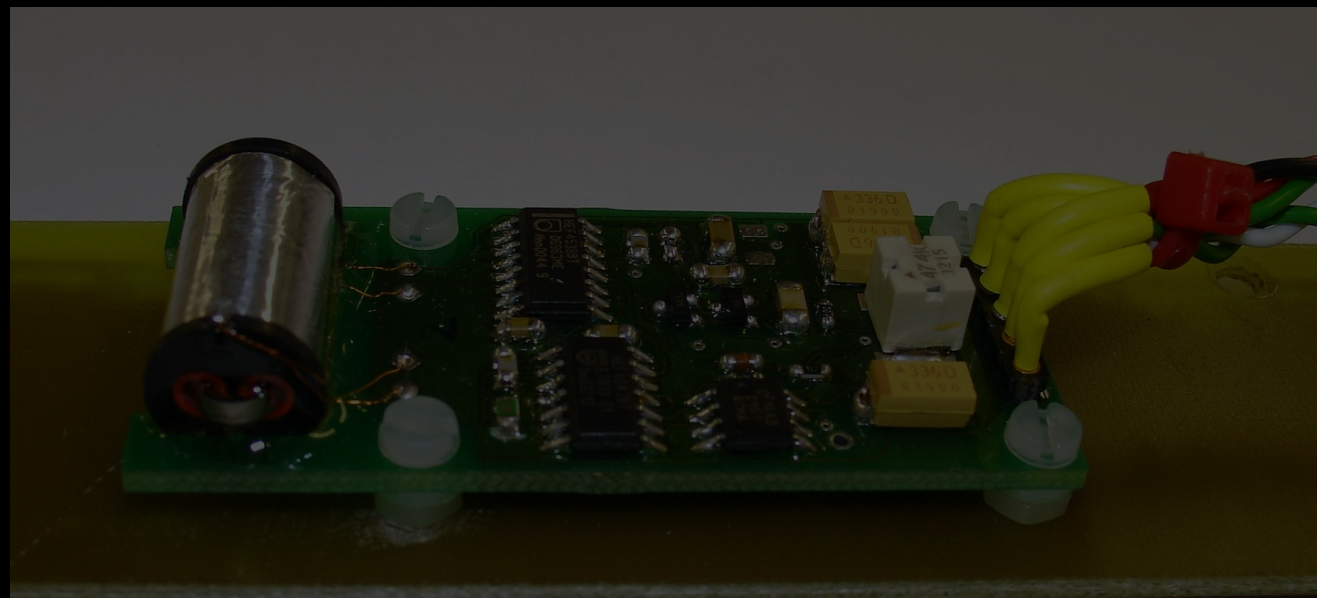
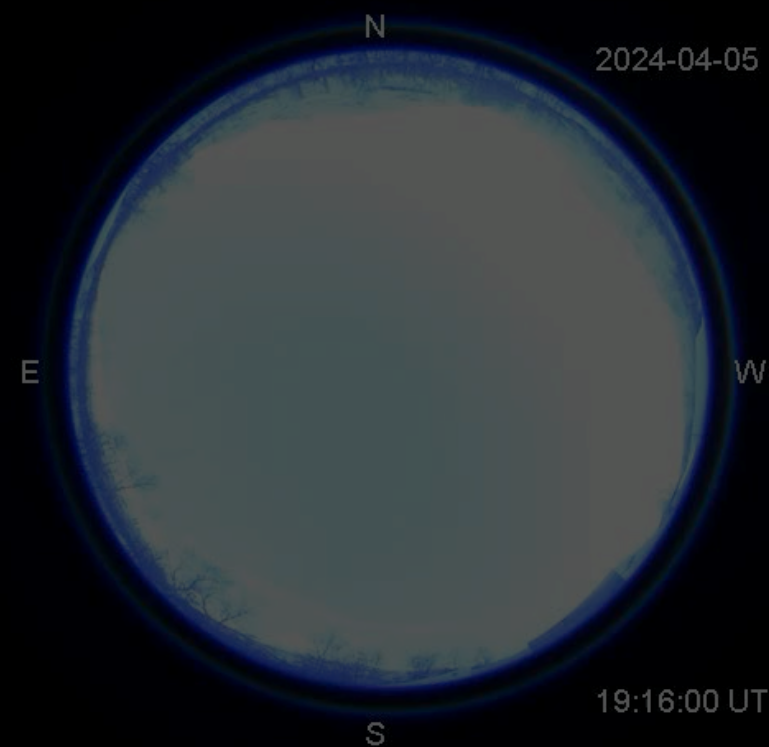
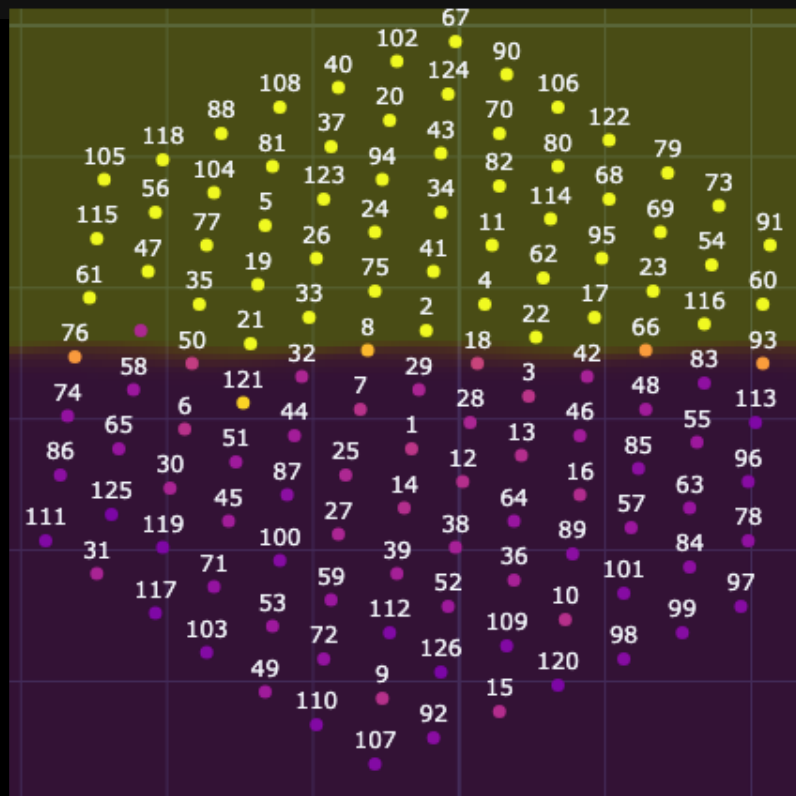
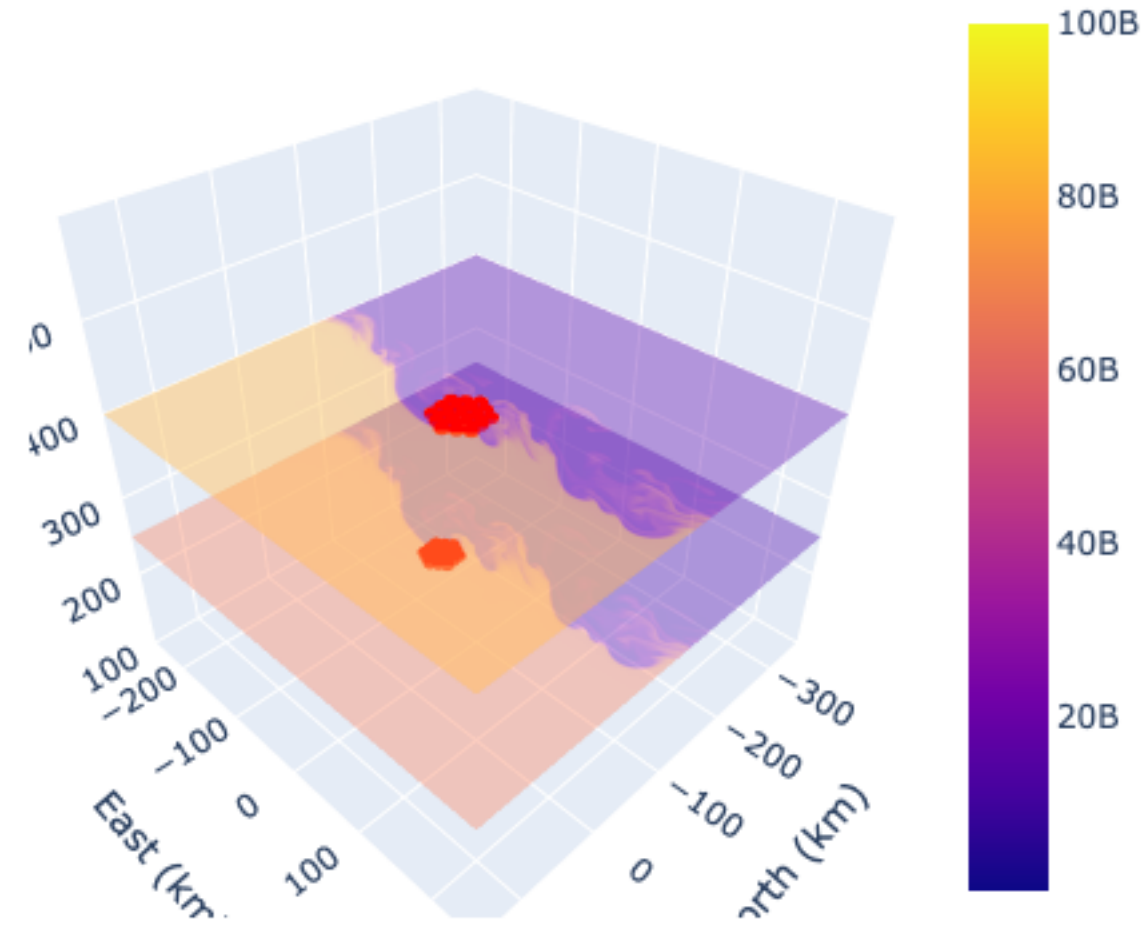


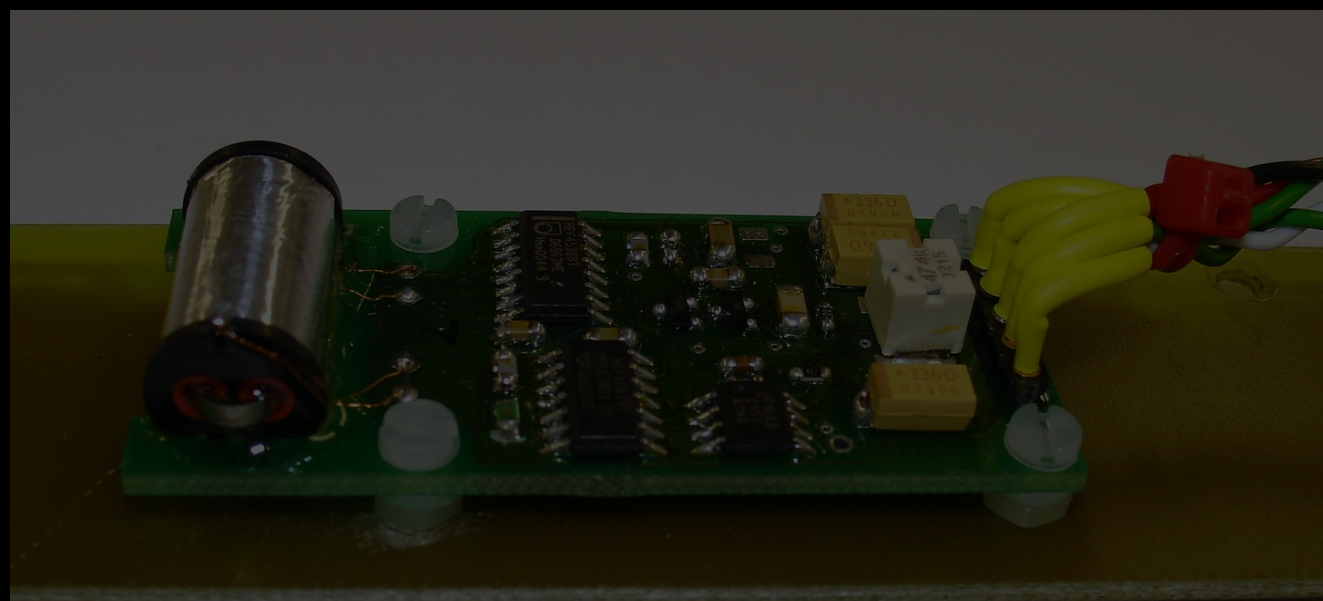
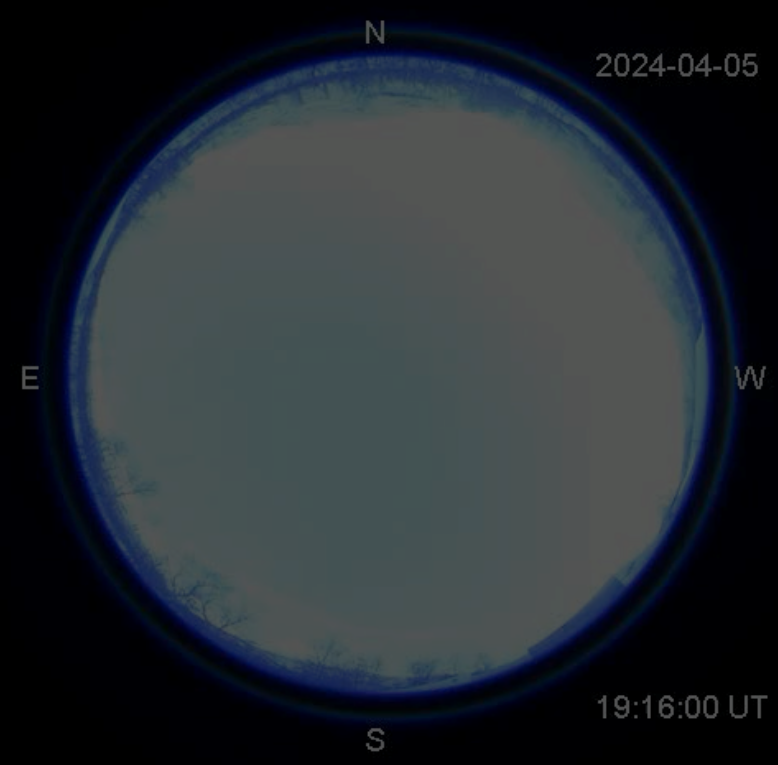
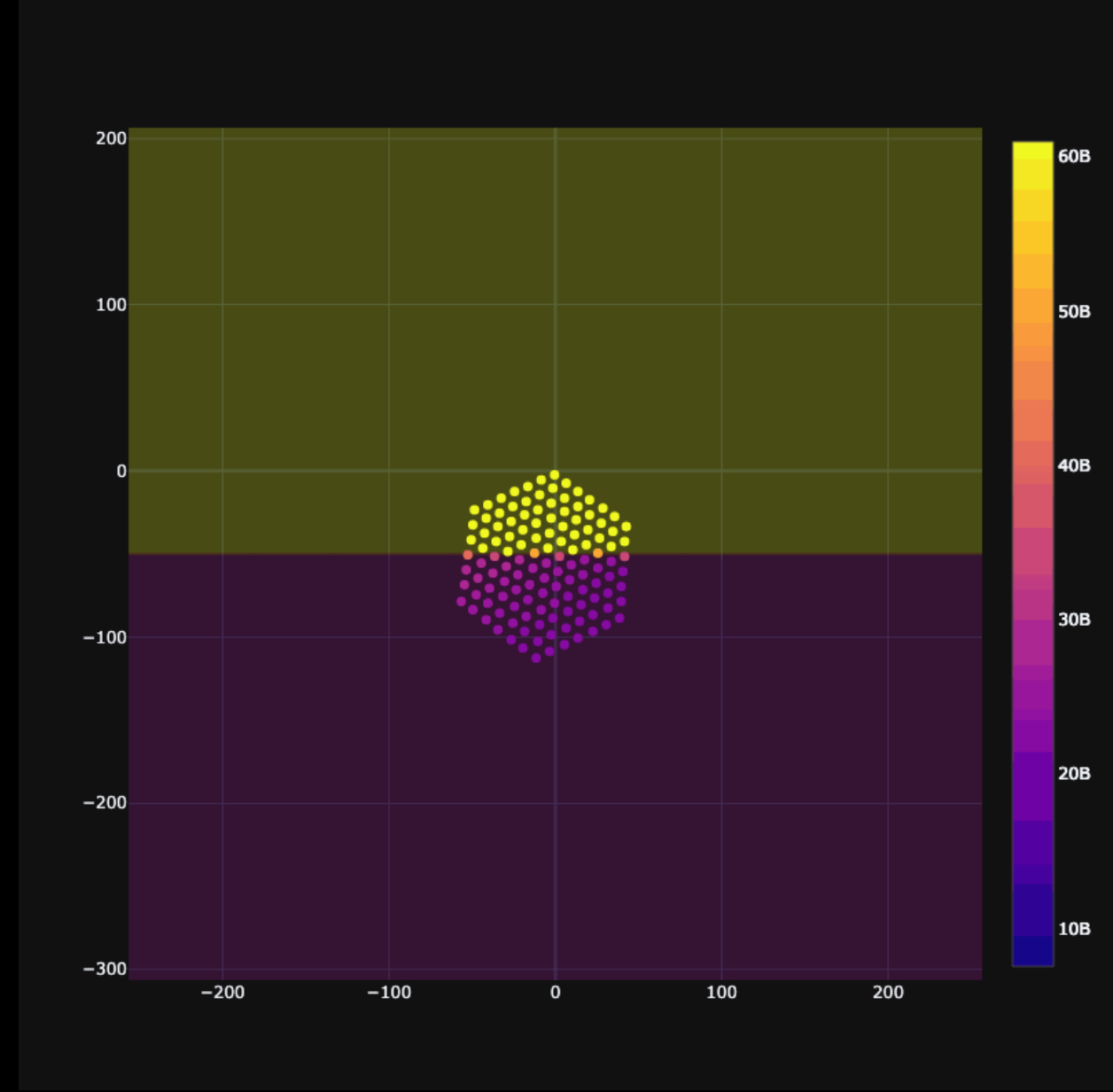


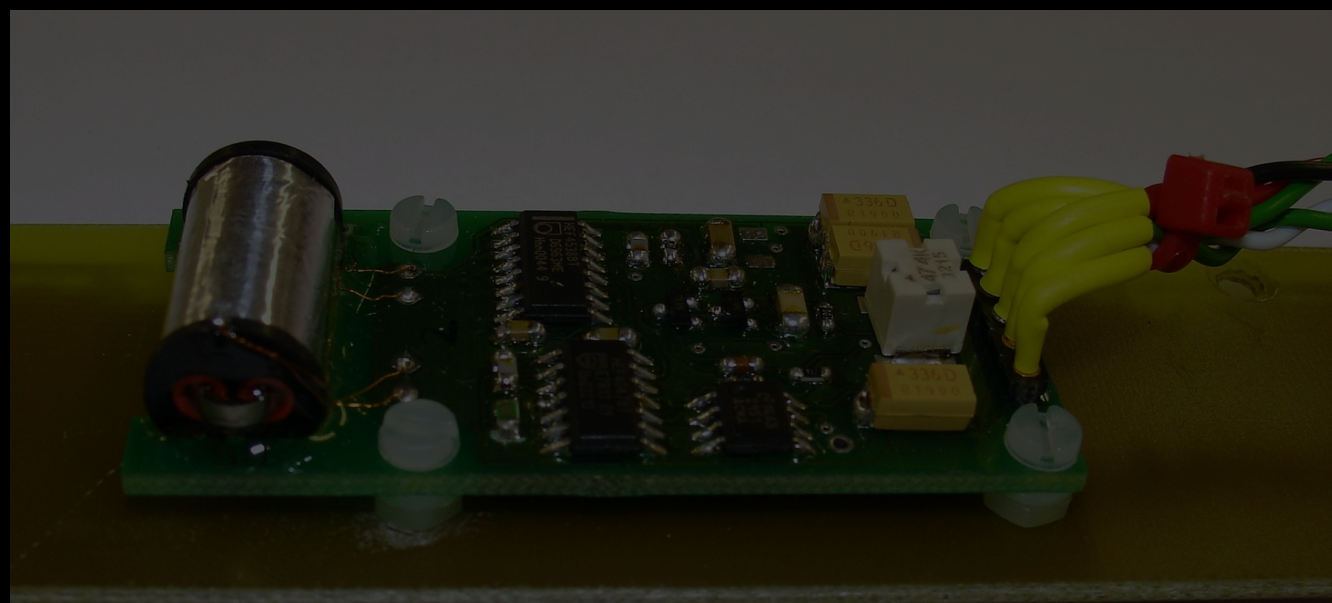
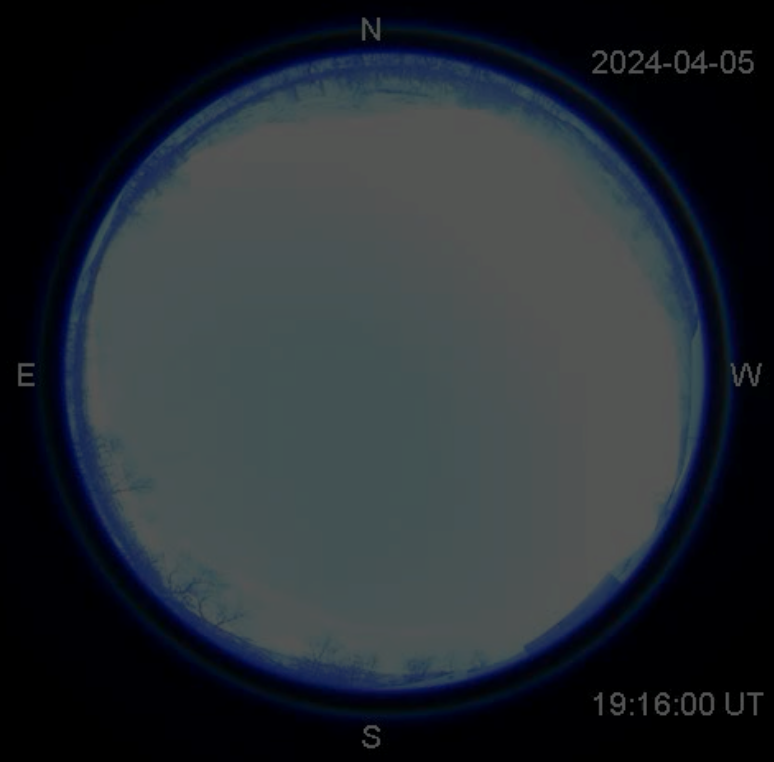
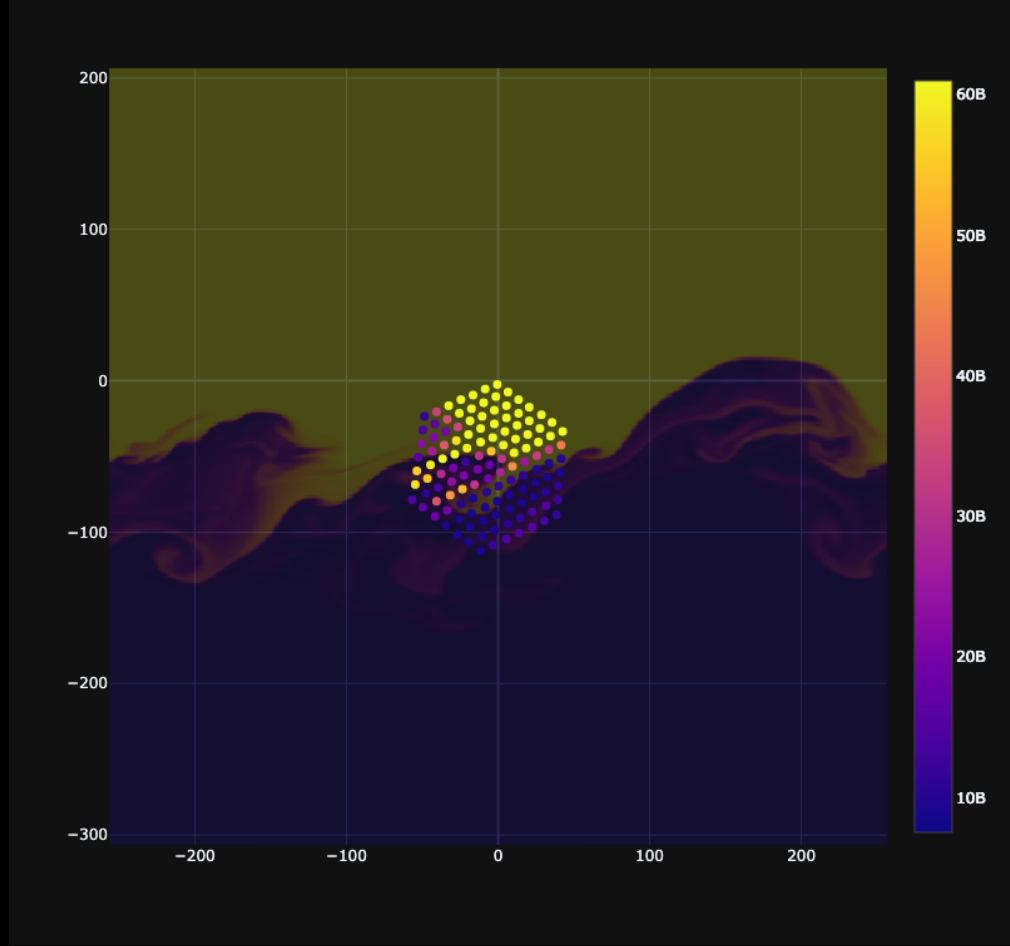
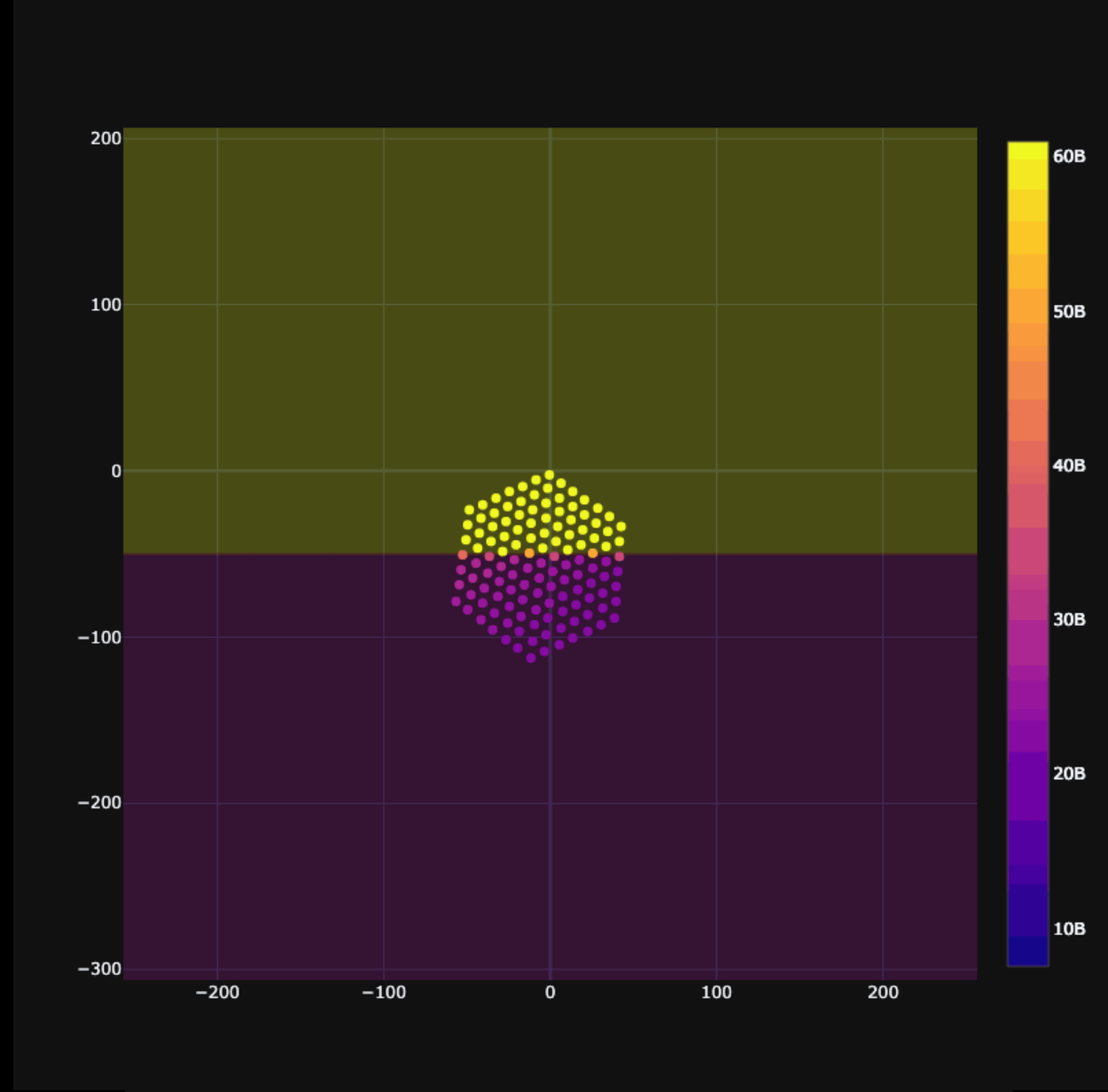


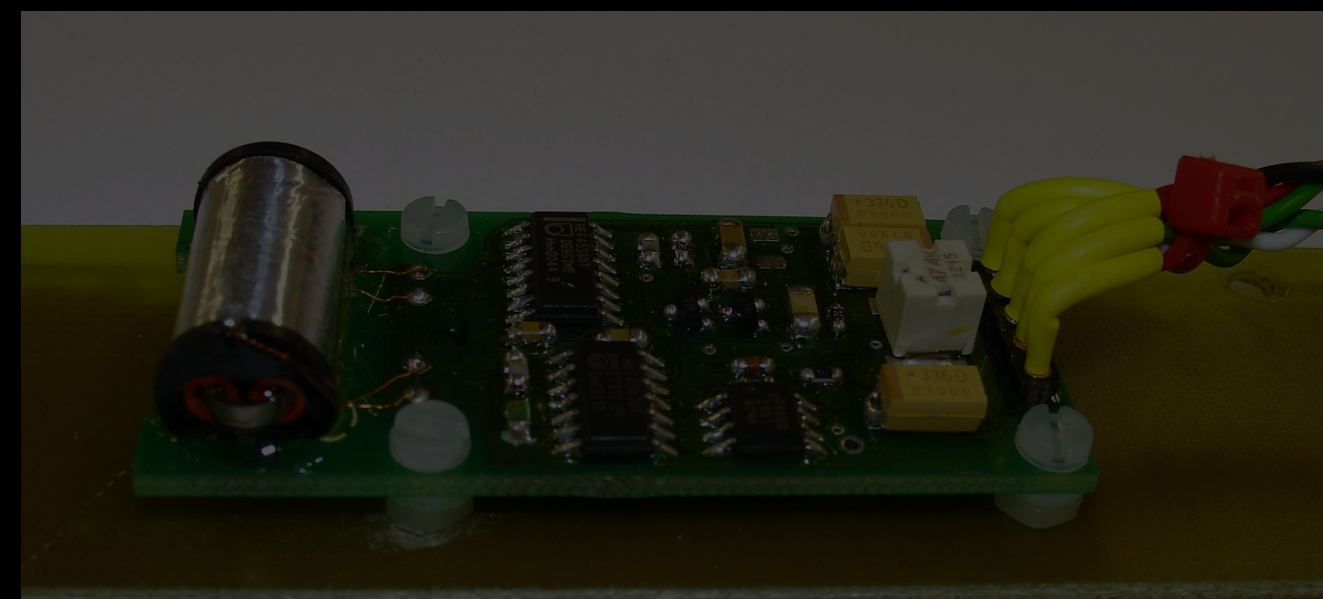
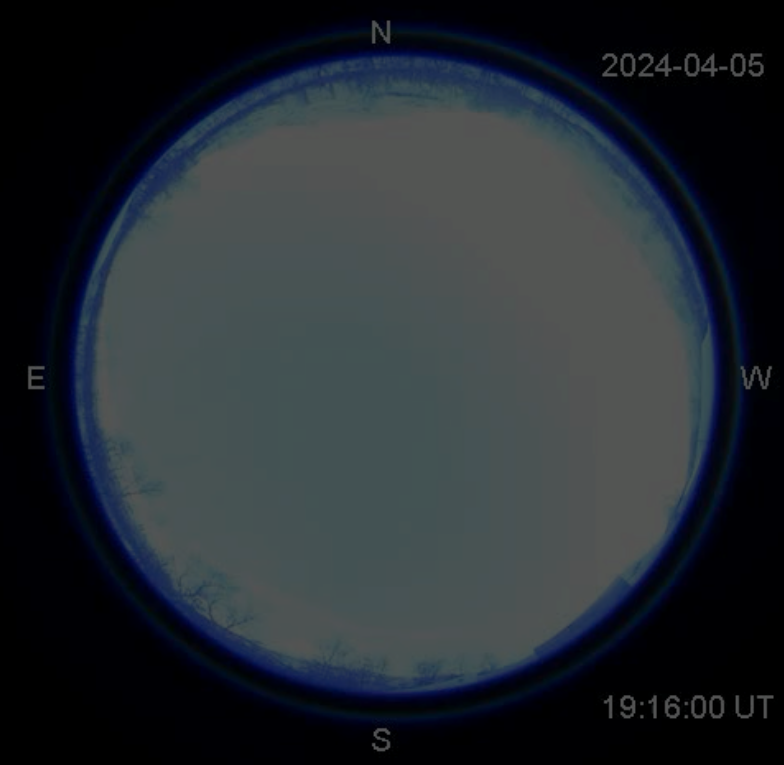
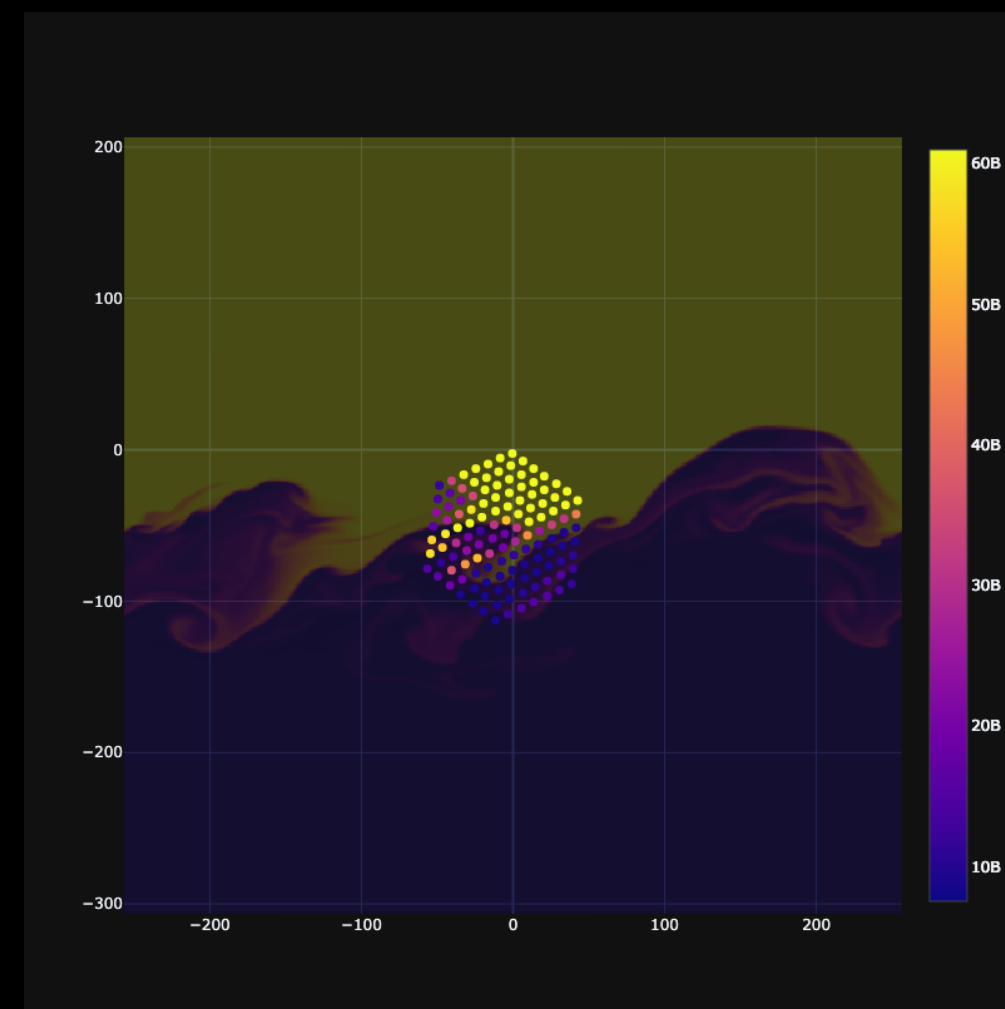
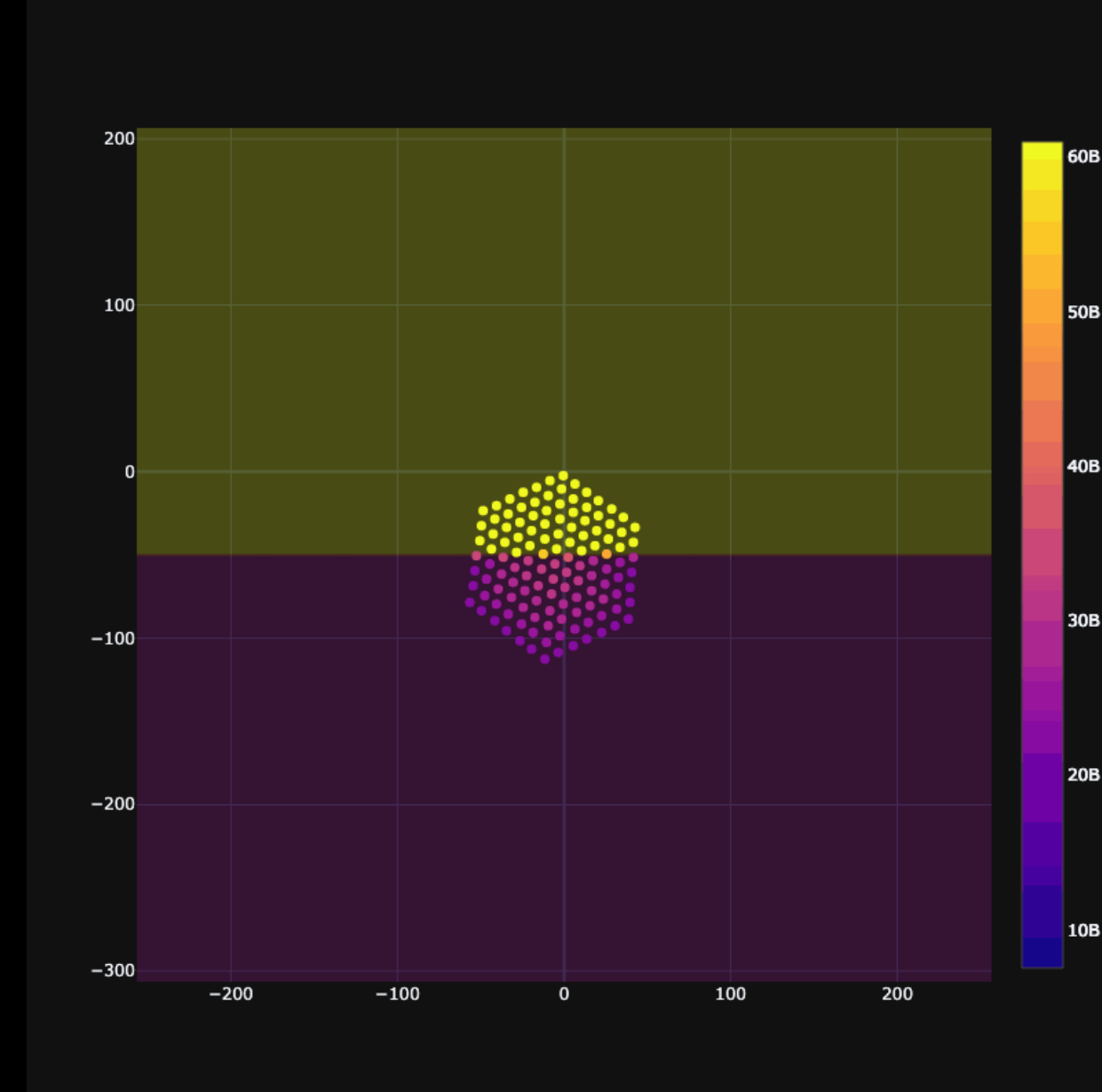


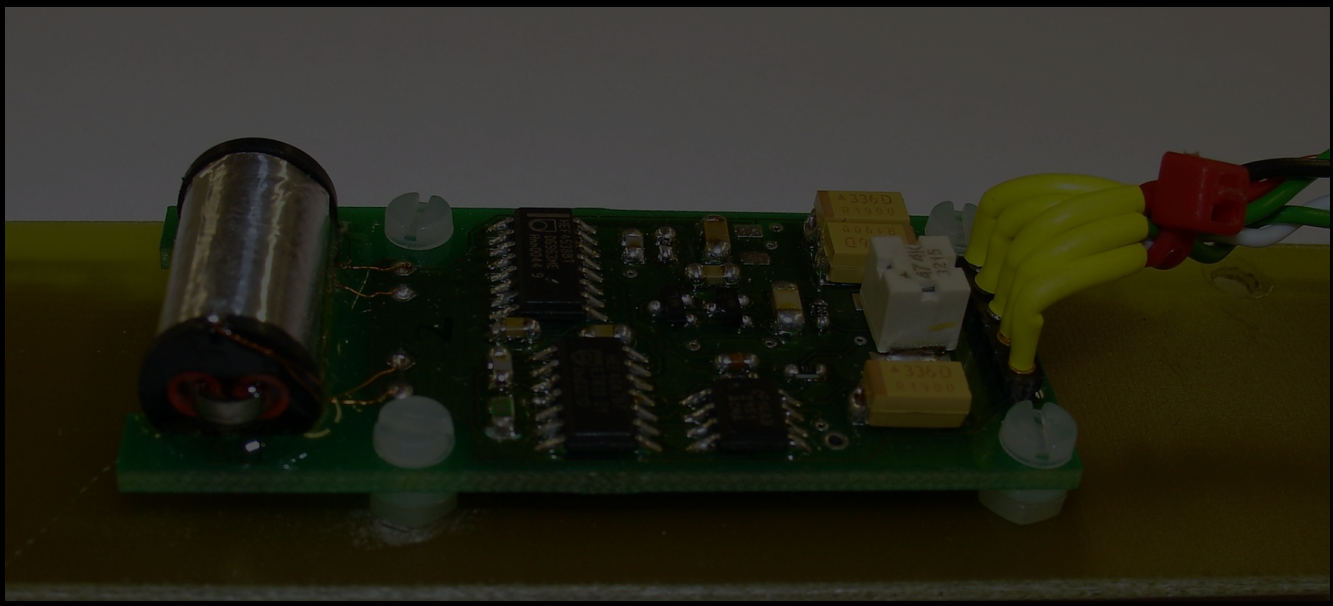
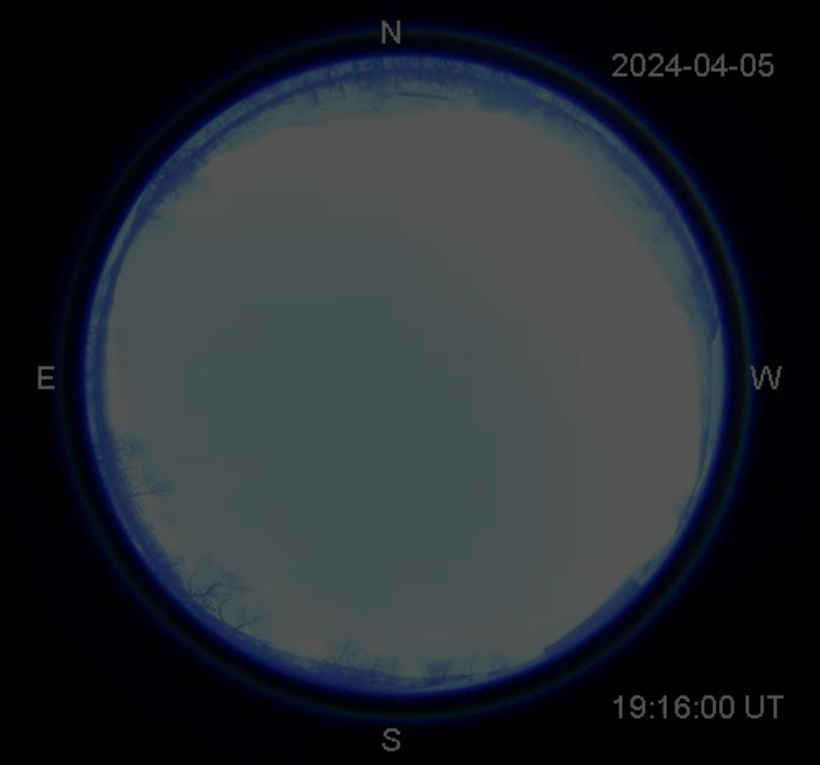
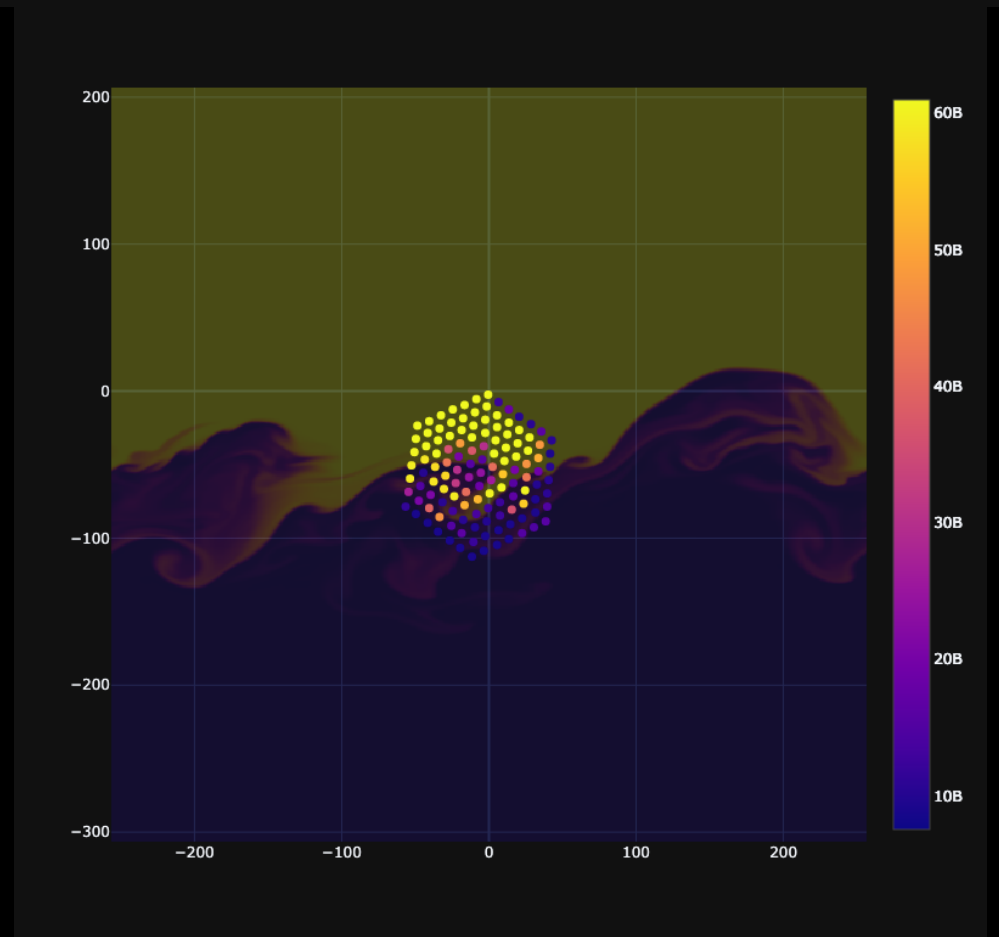
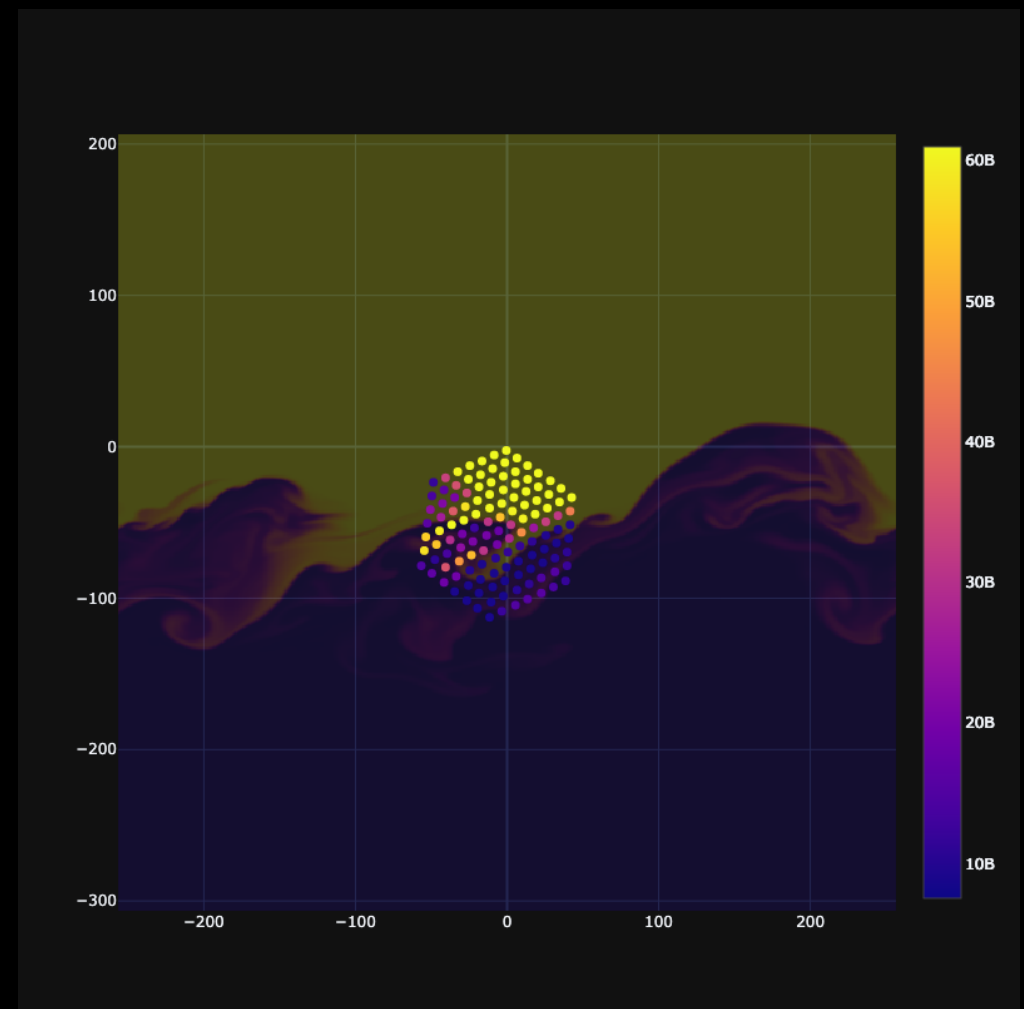
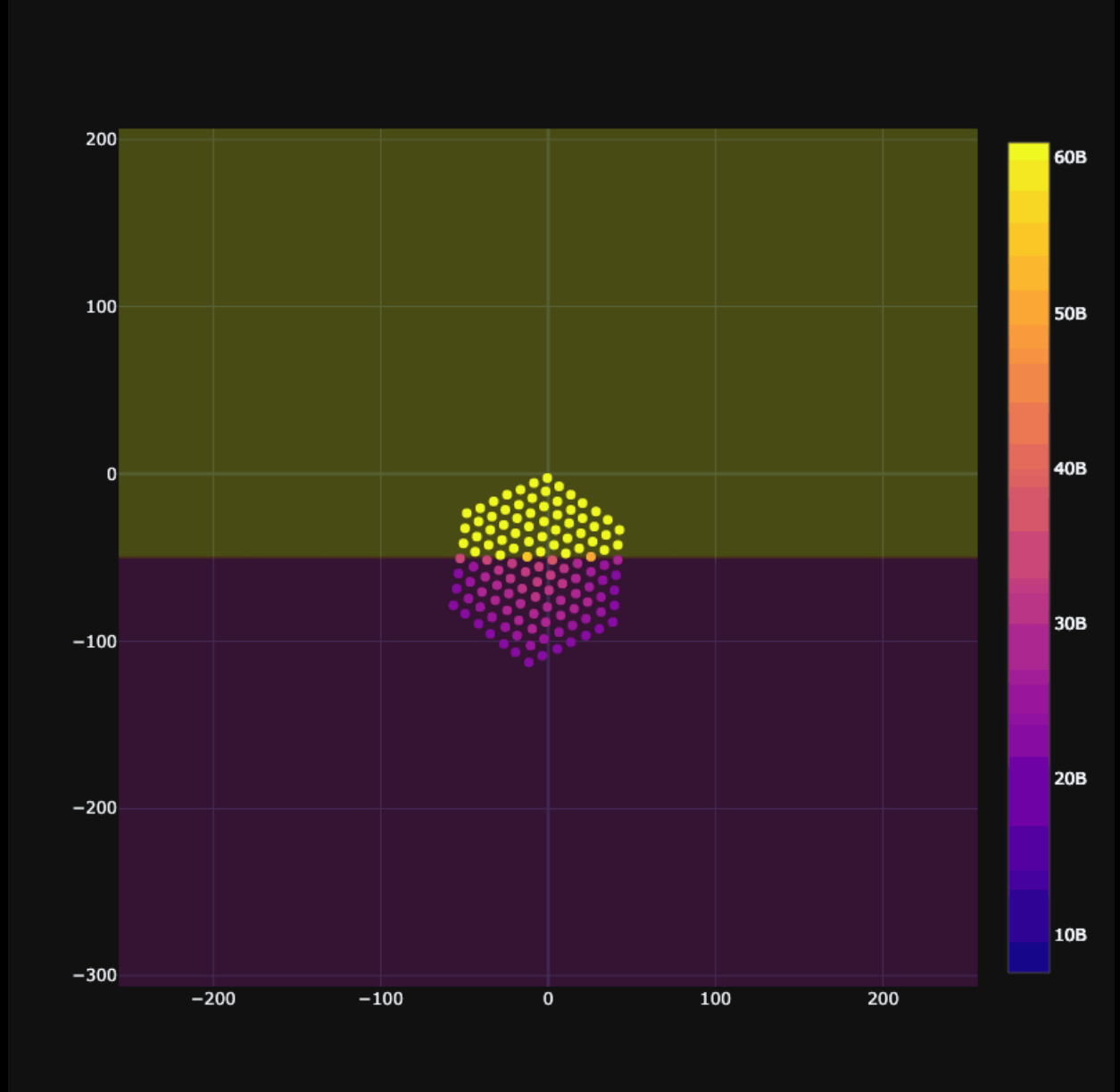
GEMINI KHI and hexagonal E3D beams

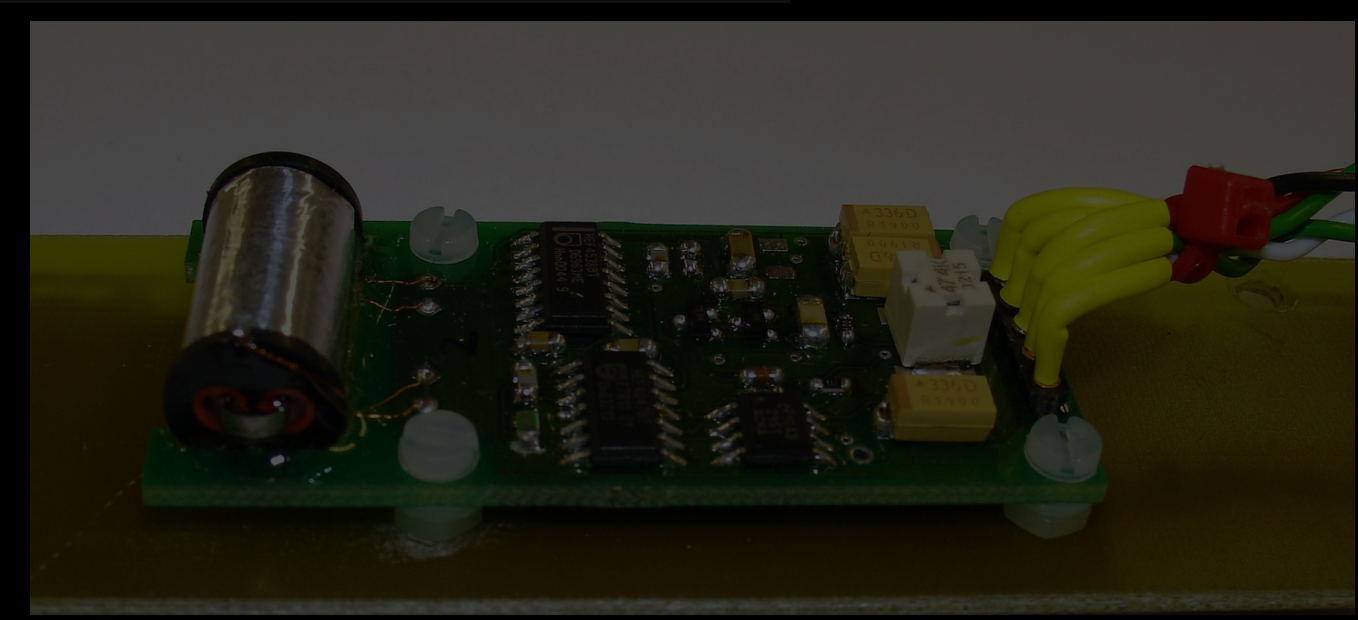
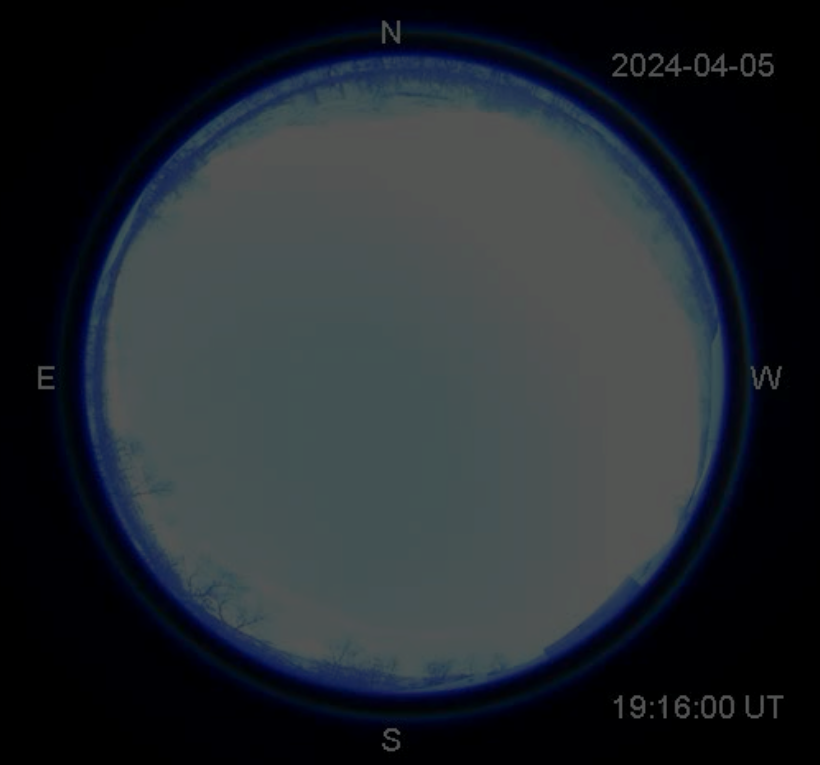
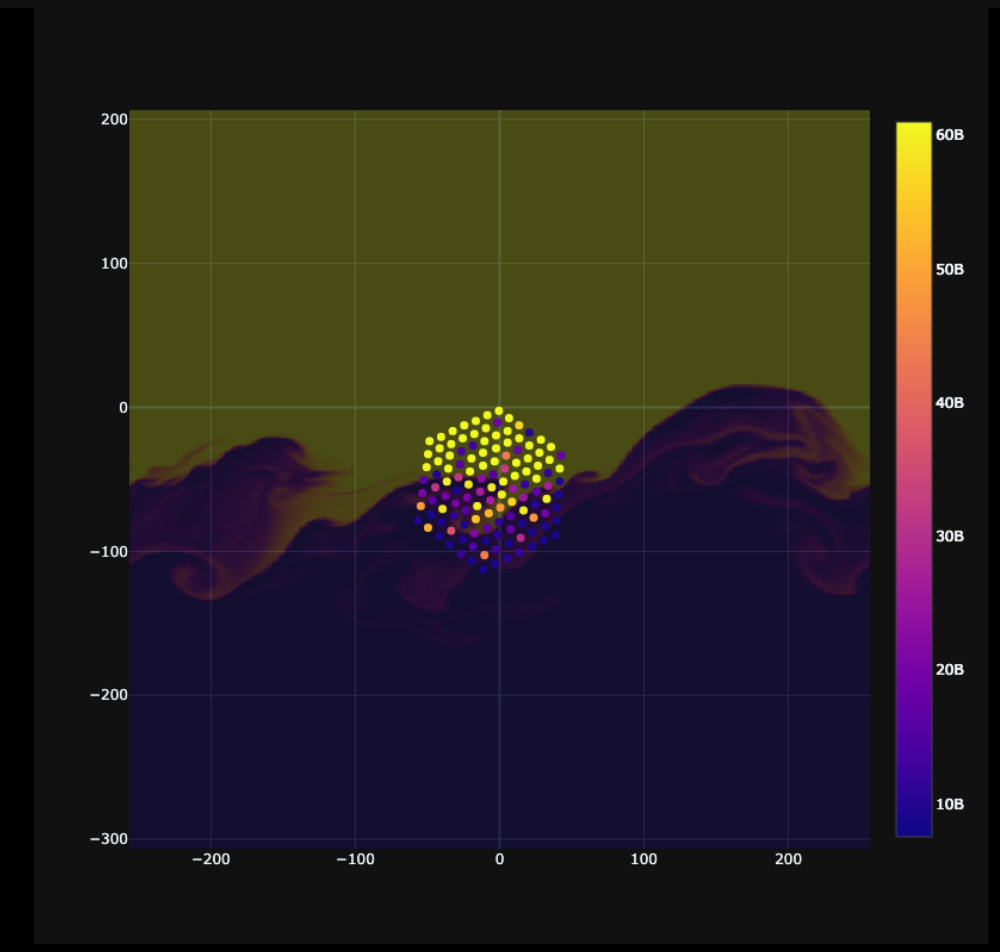
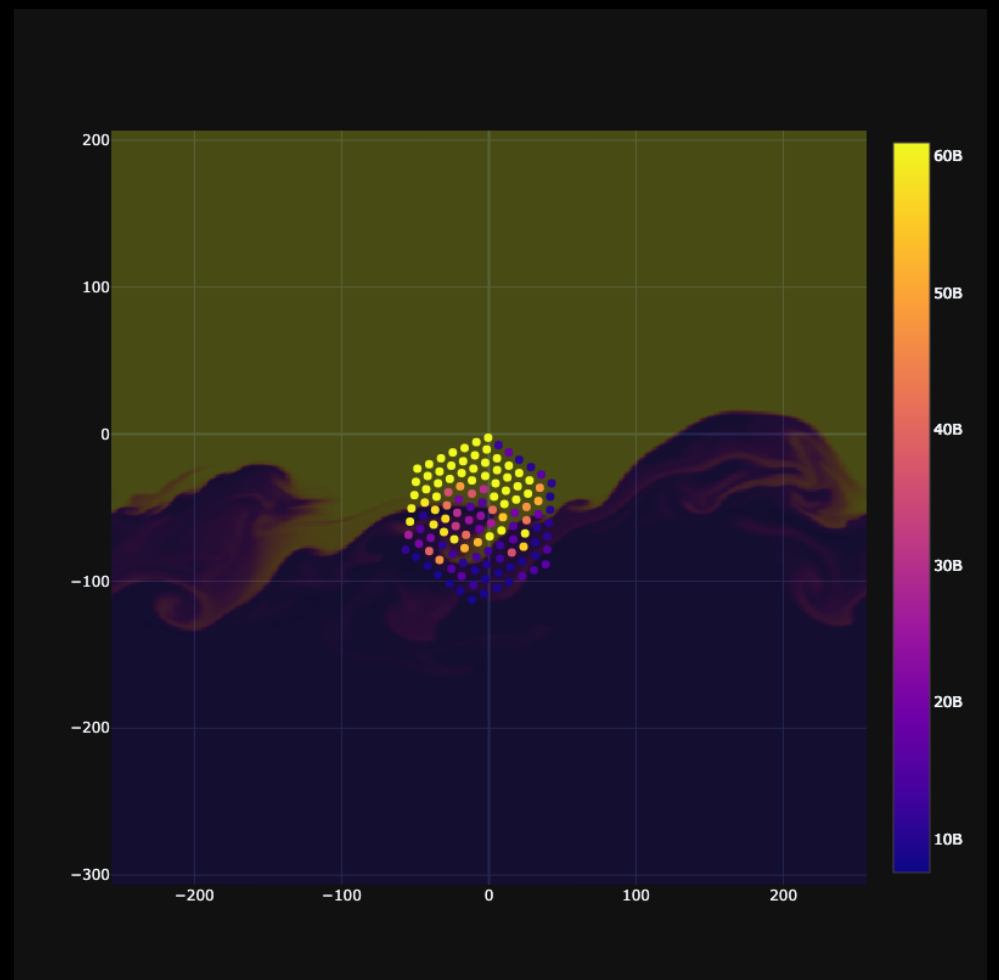
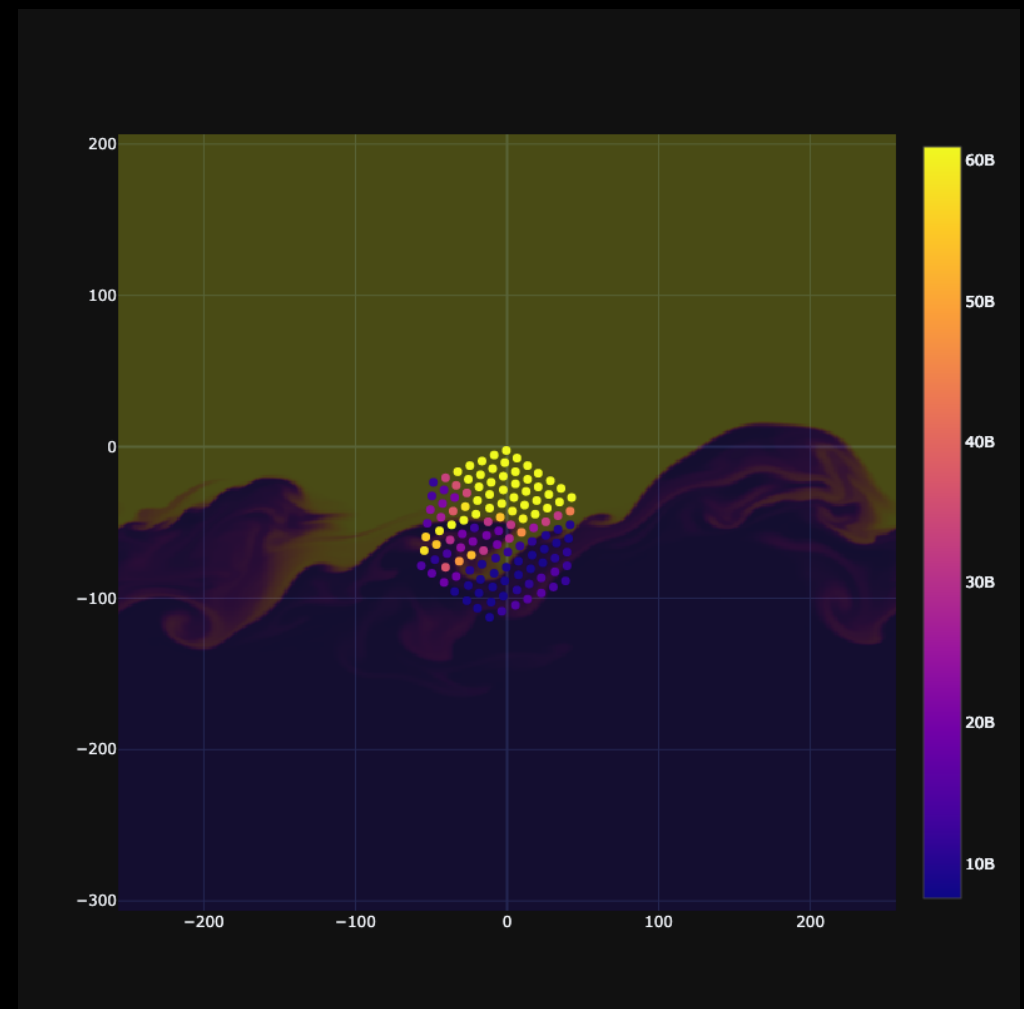
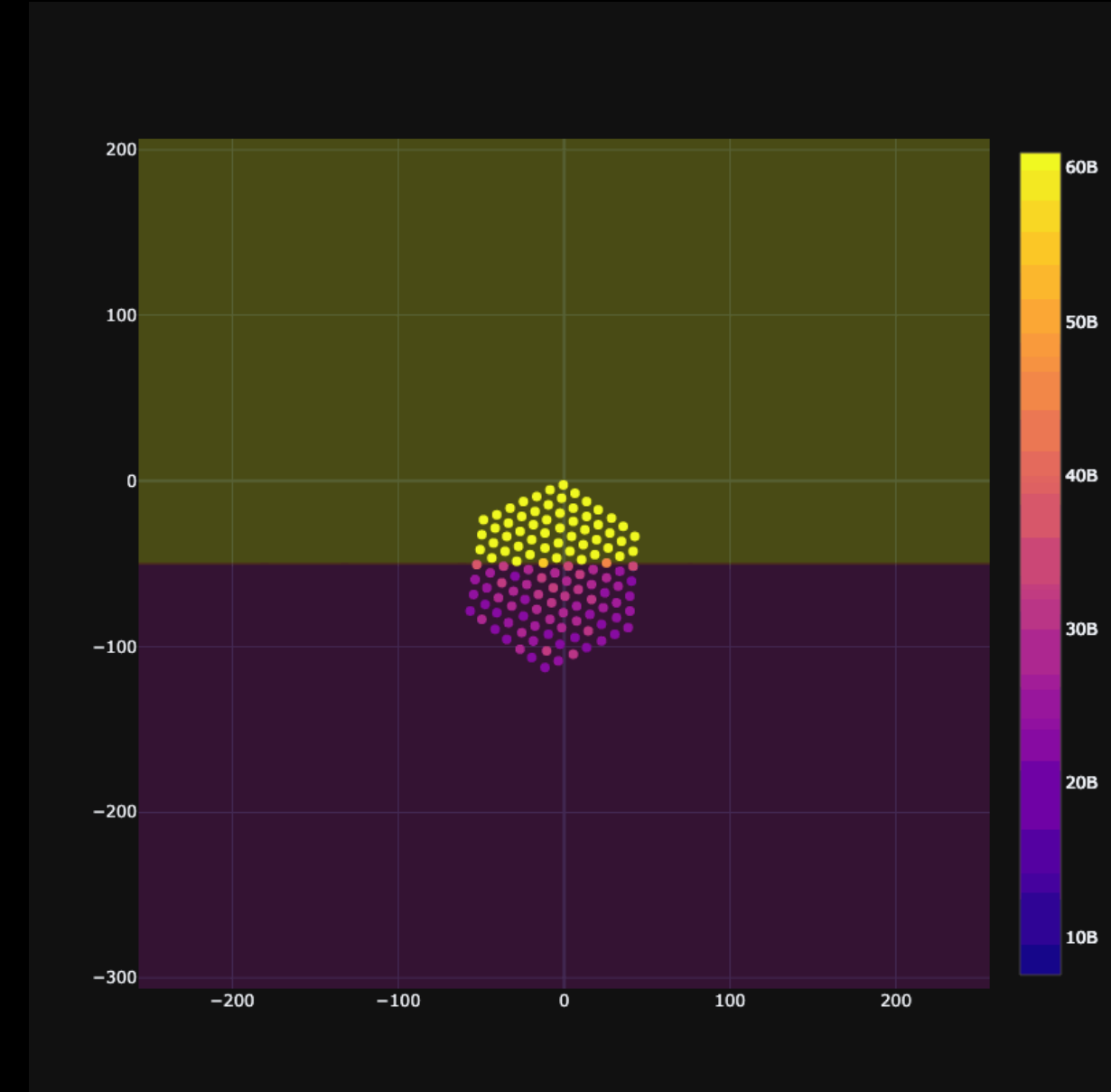




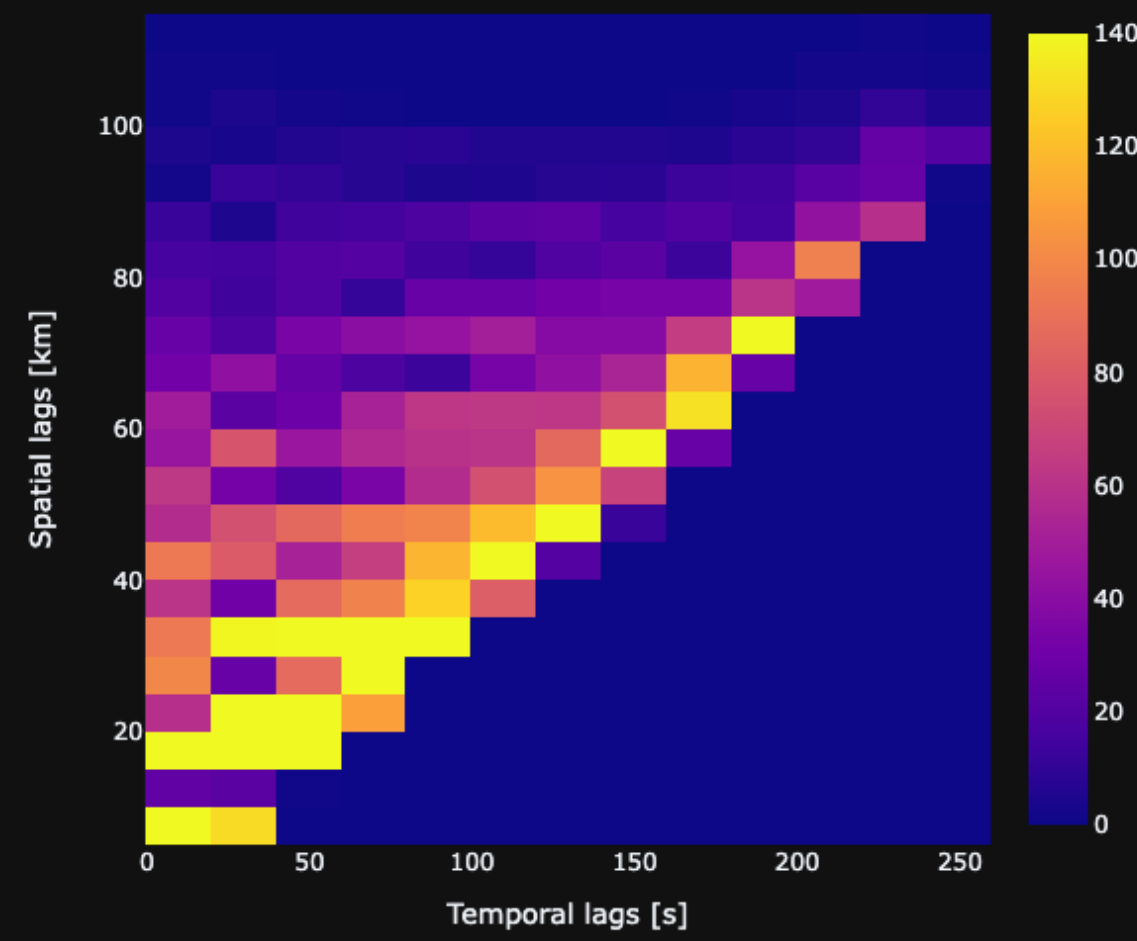




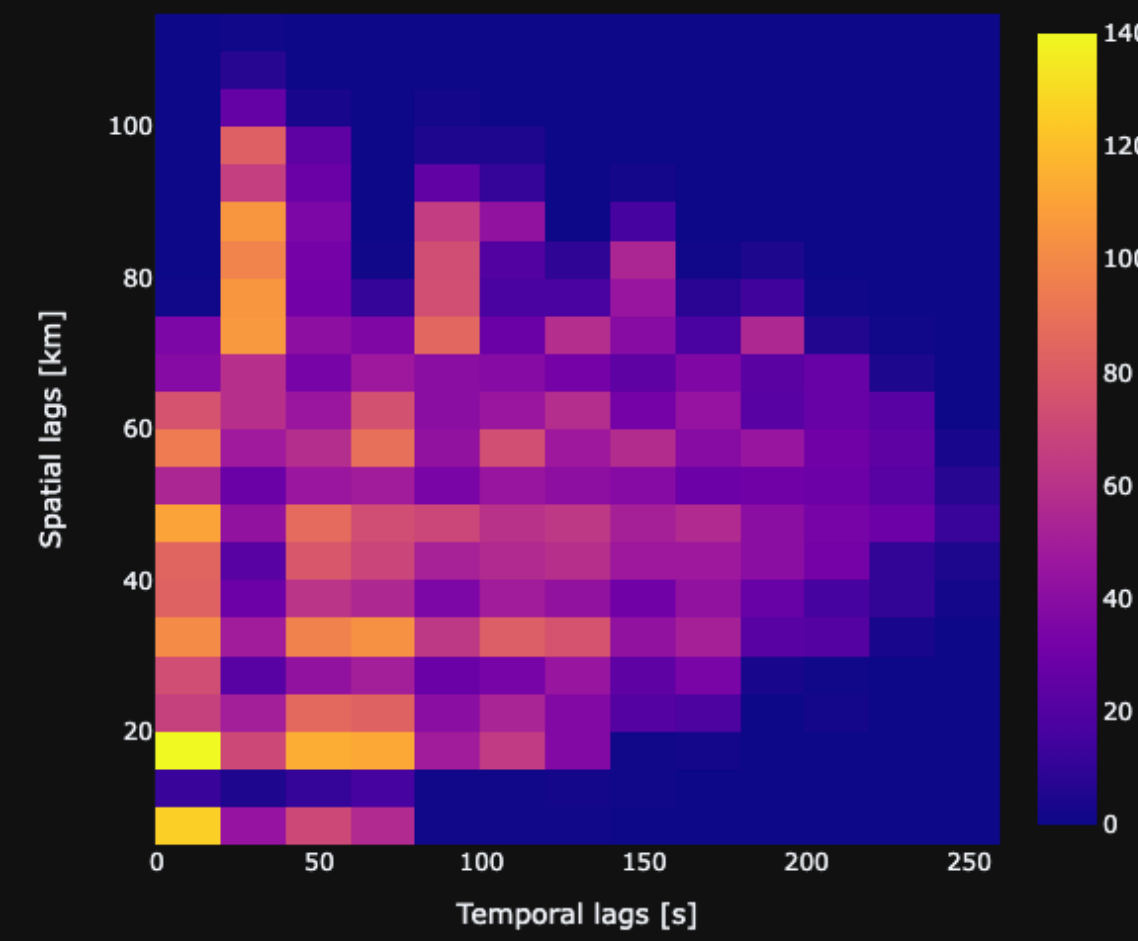




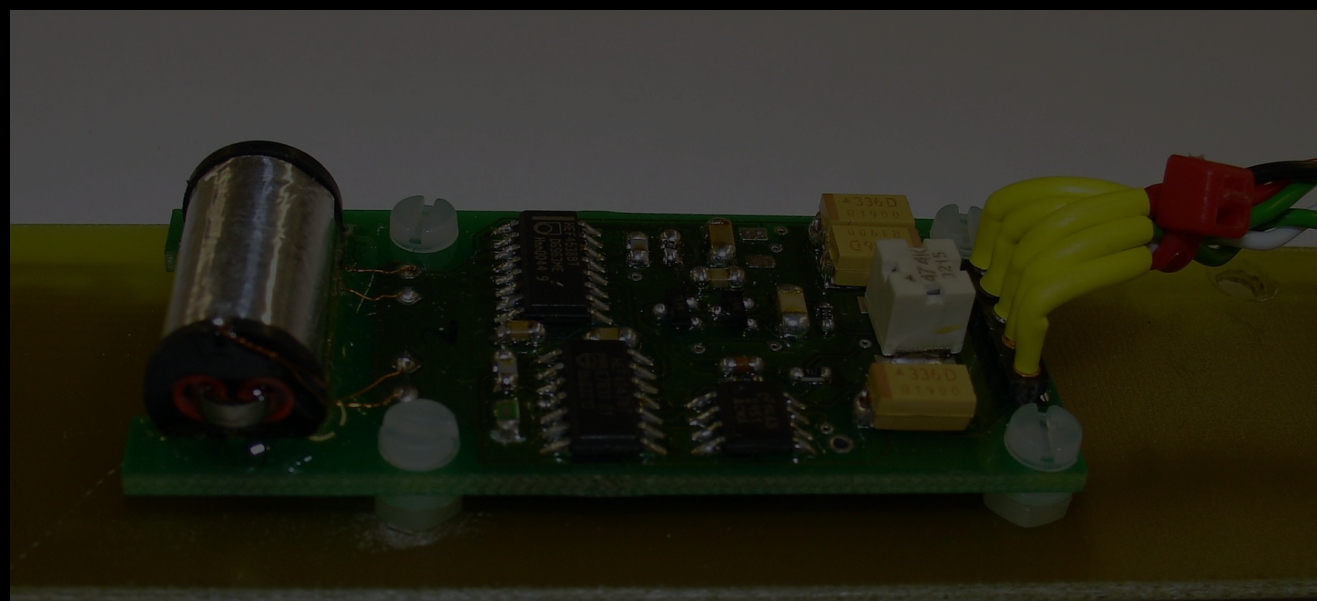
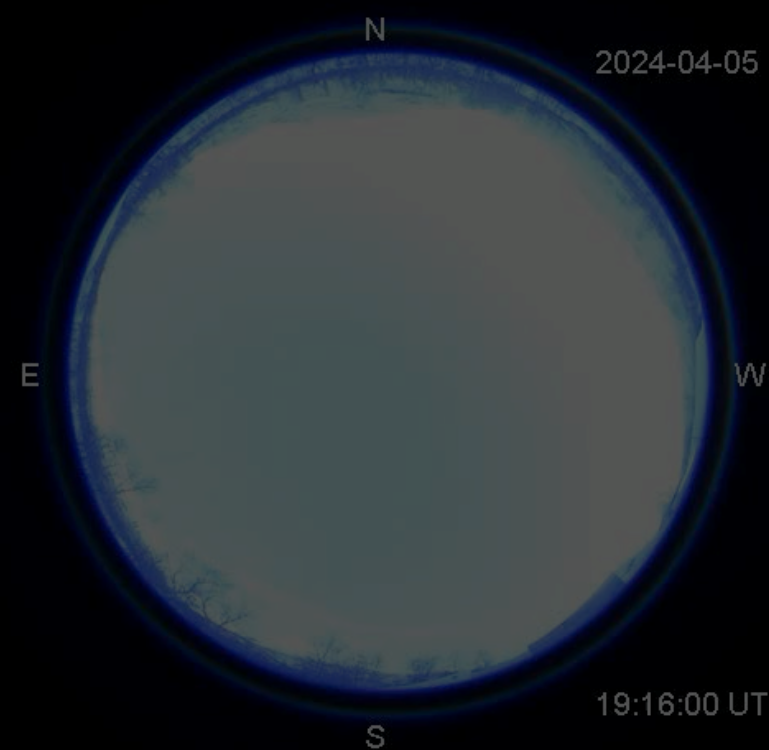
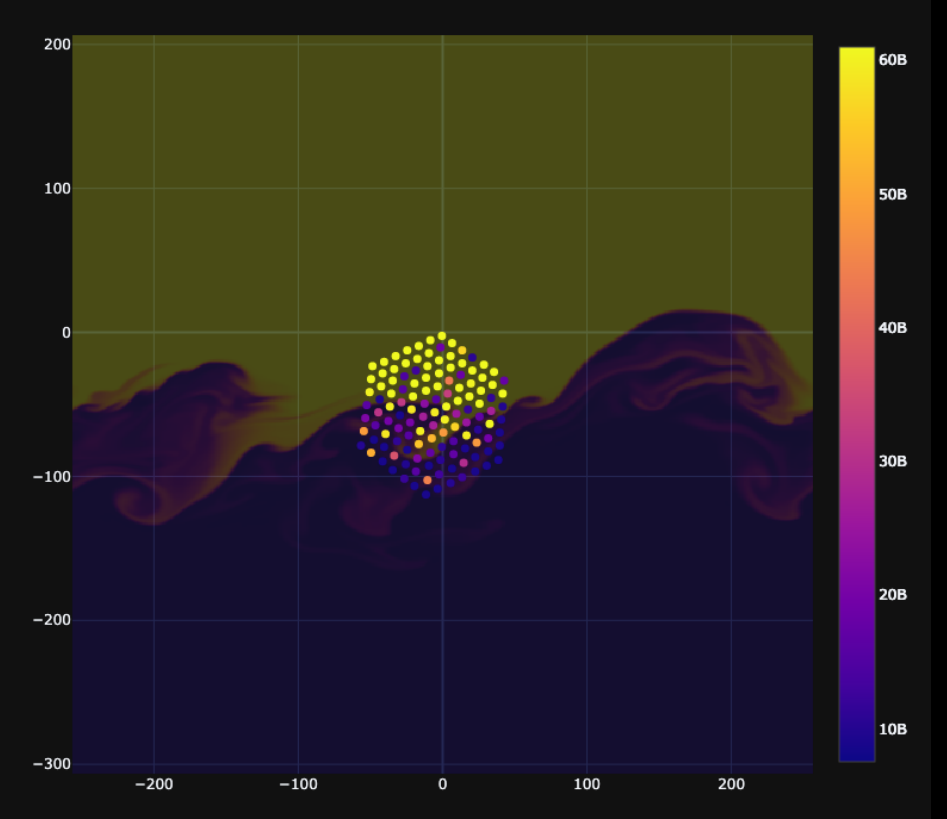
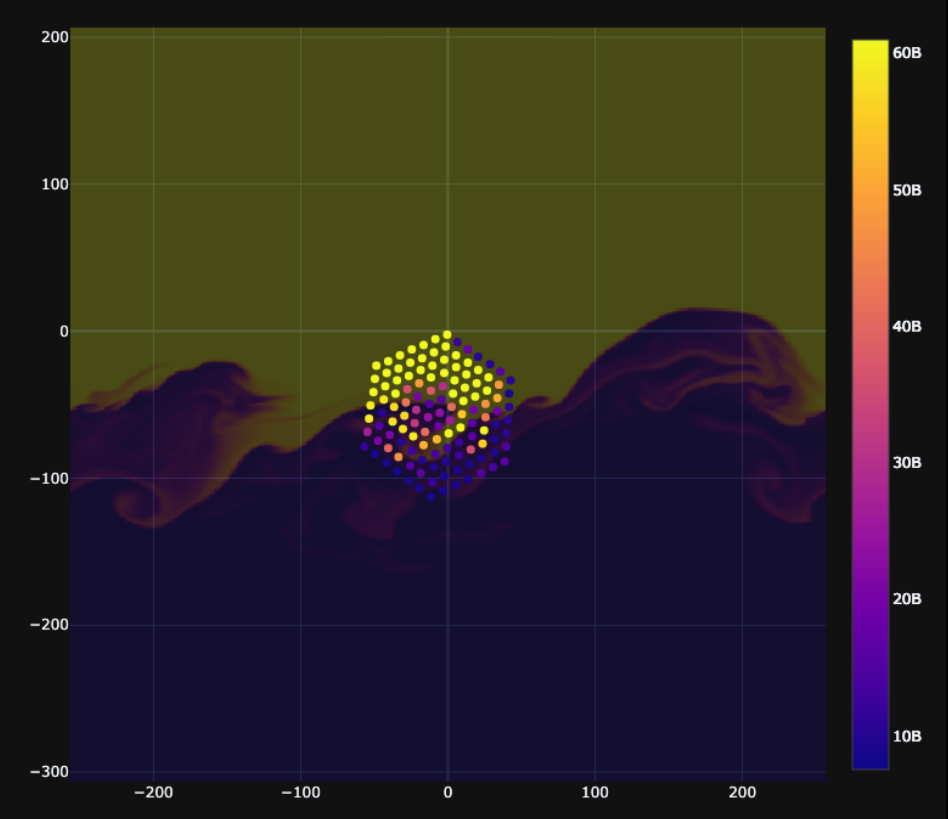
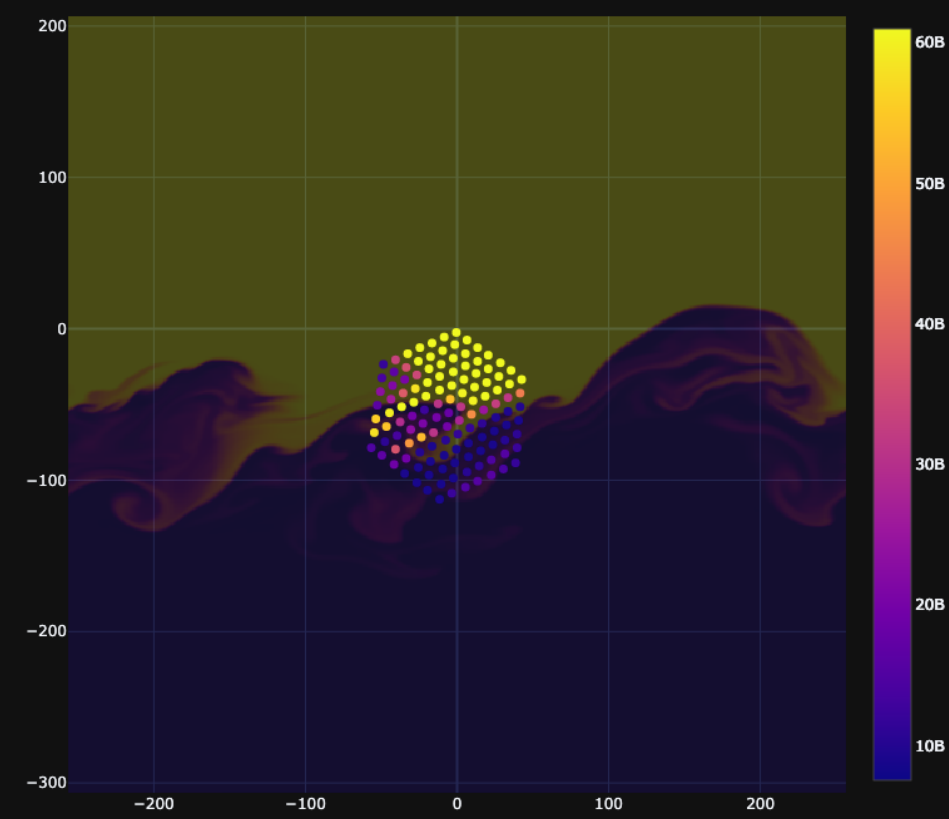
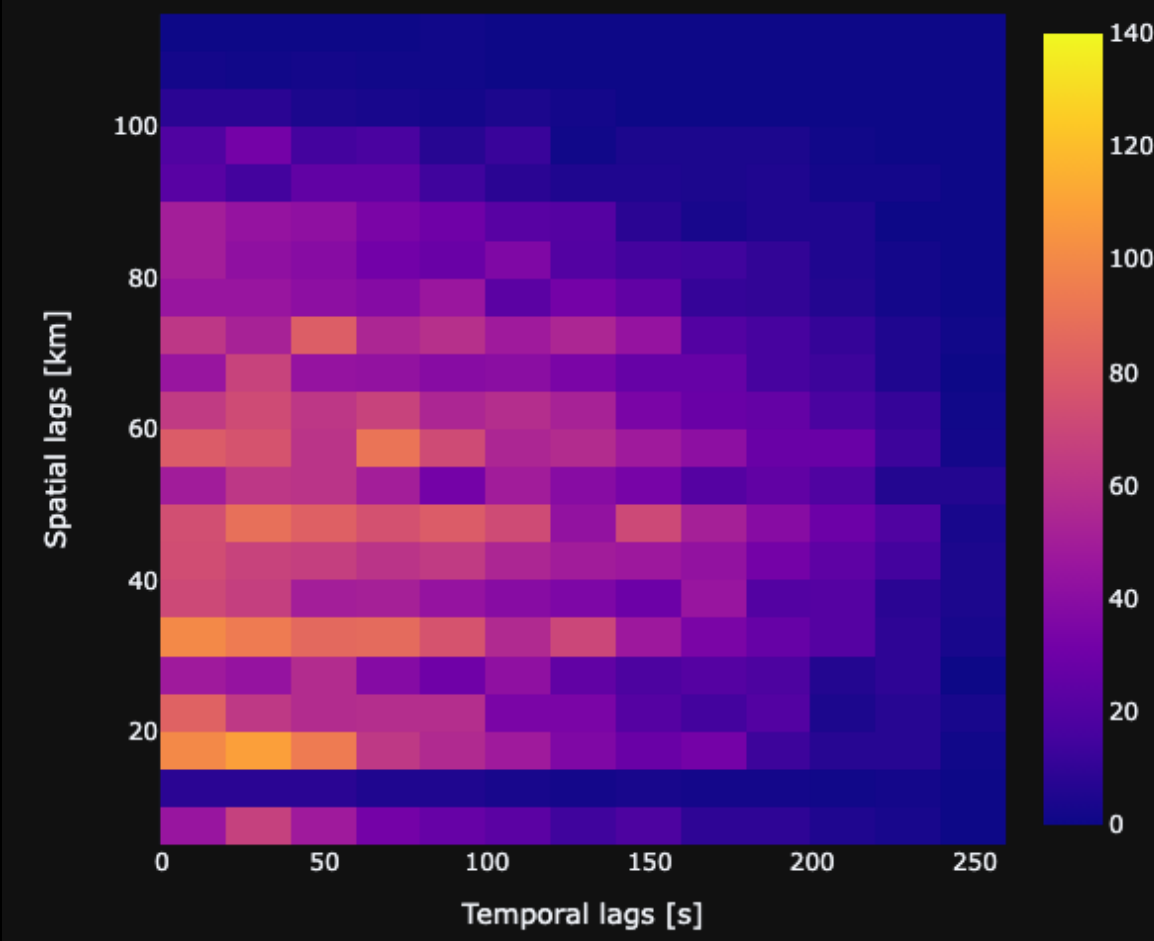
Spatiotemporal distribution of beamsampling / reading



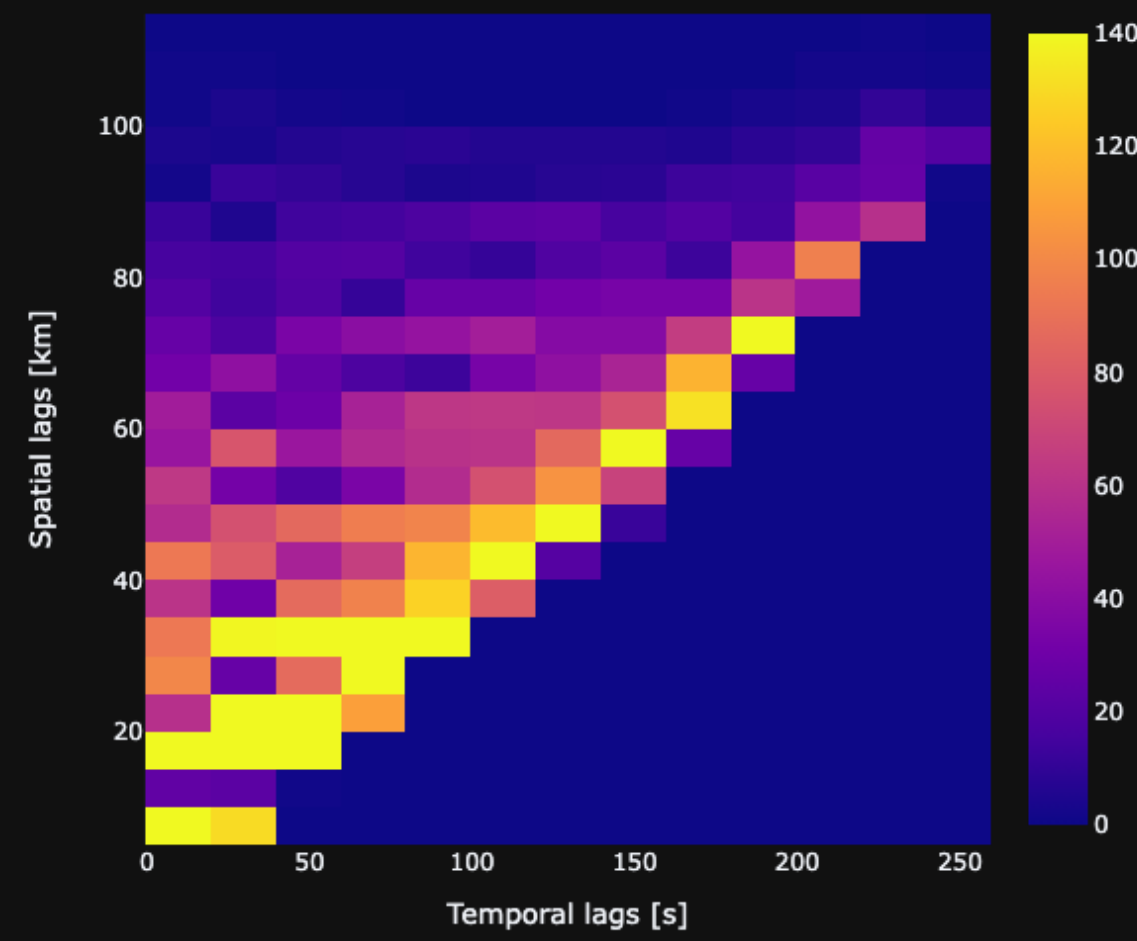
Spatiotemporal distribution of beamsampling / circular



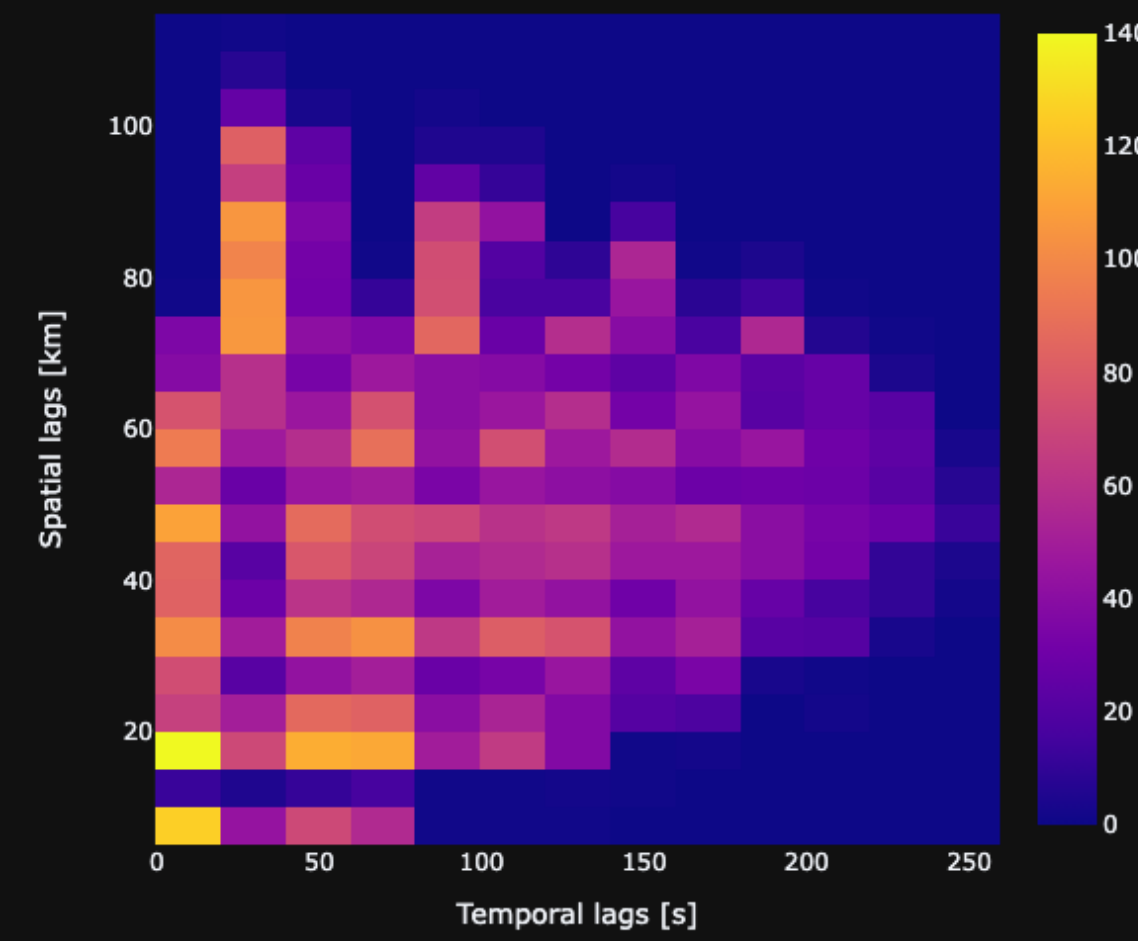
Spatiotemporal distribution of beamsampling / magic



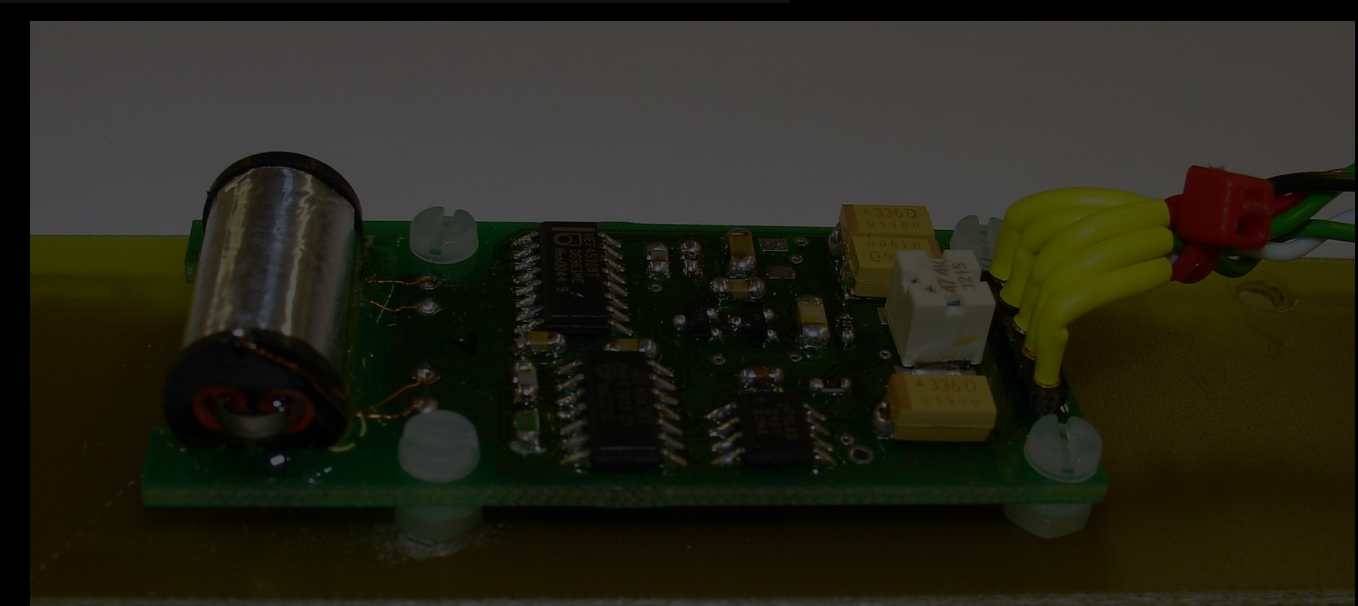
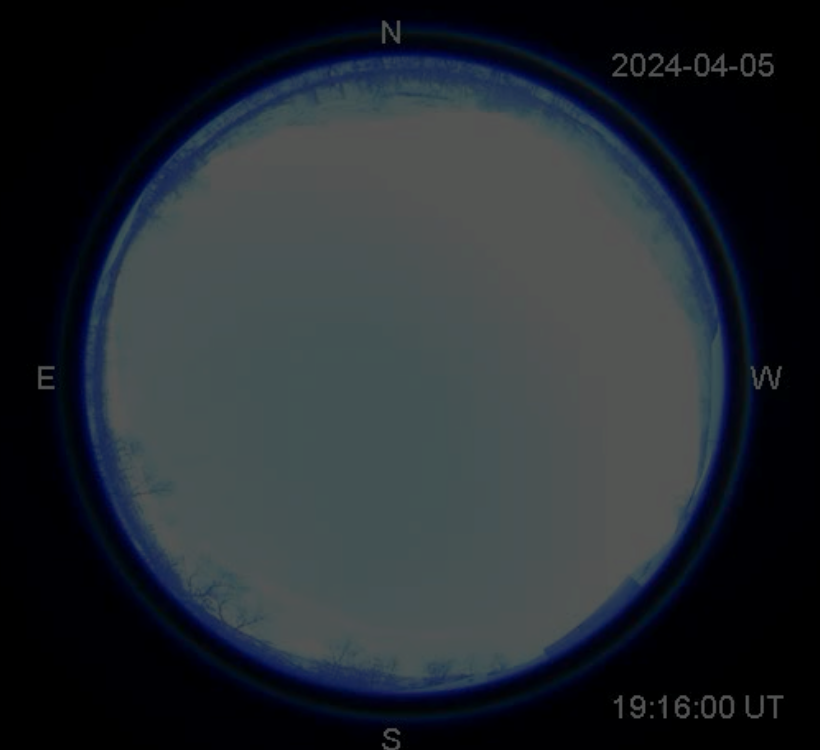
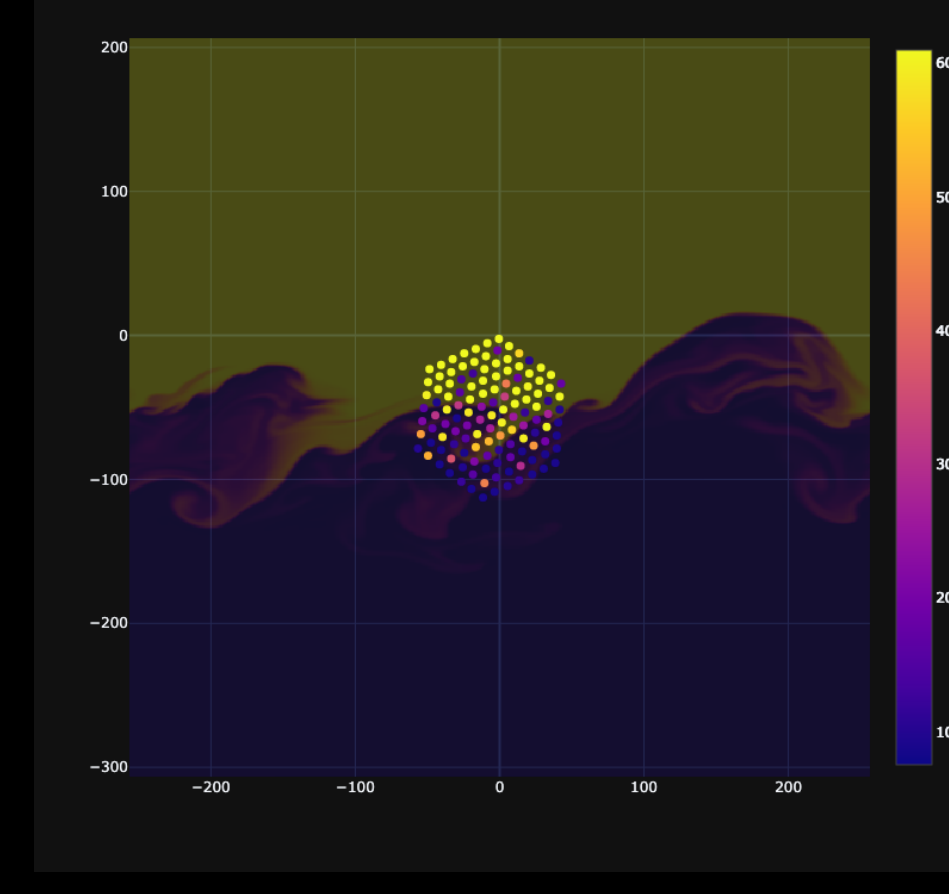
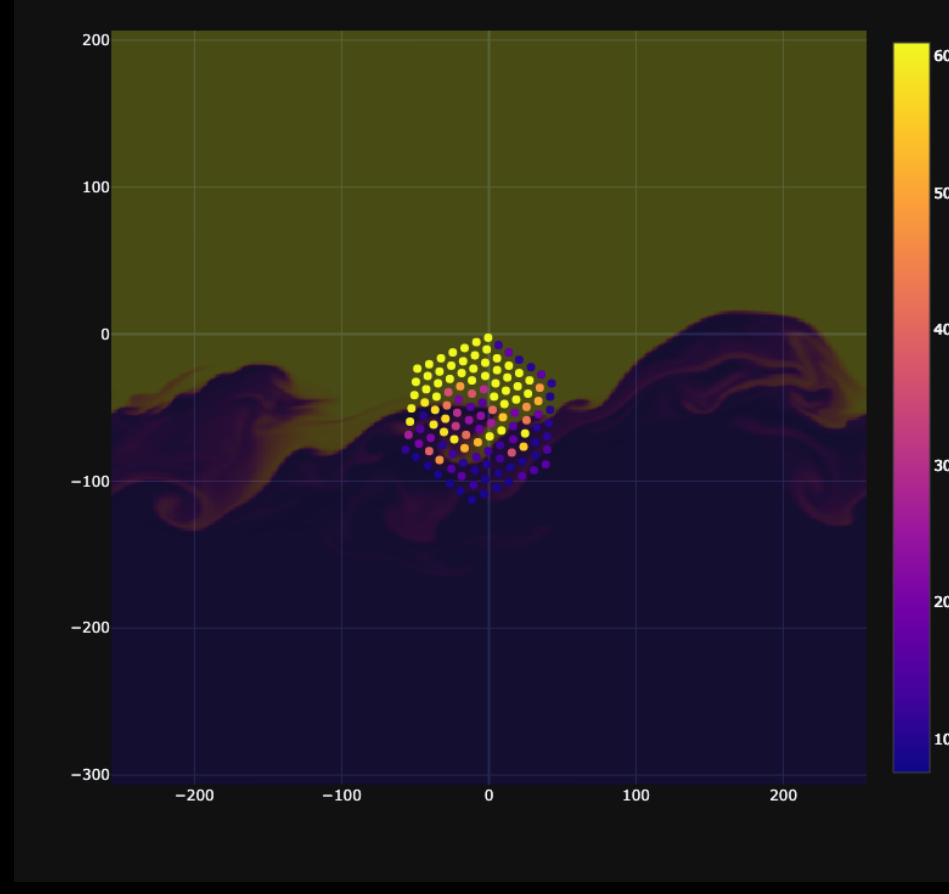
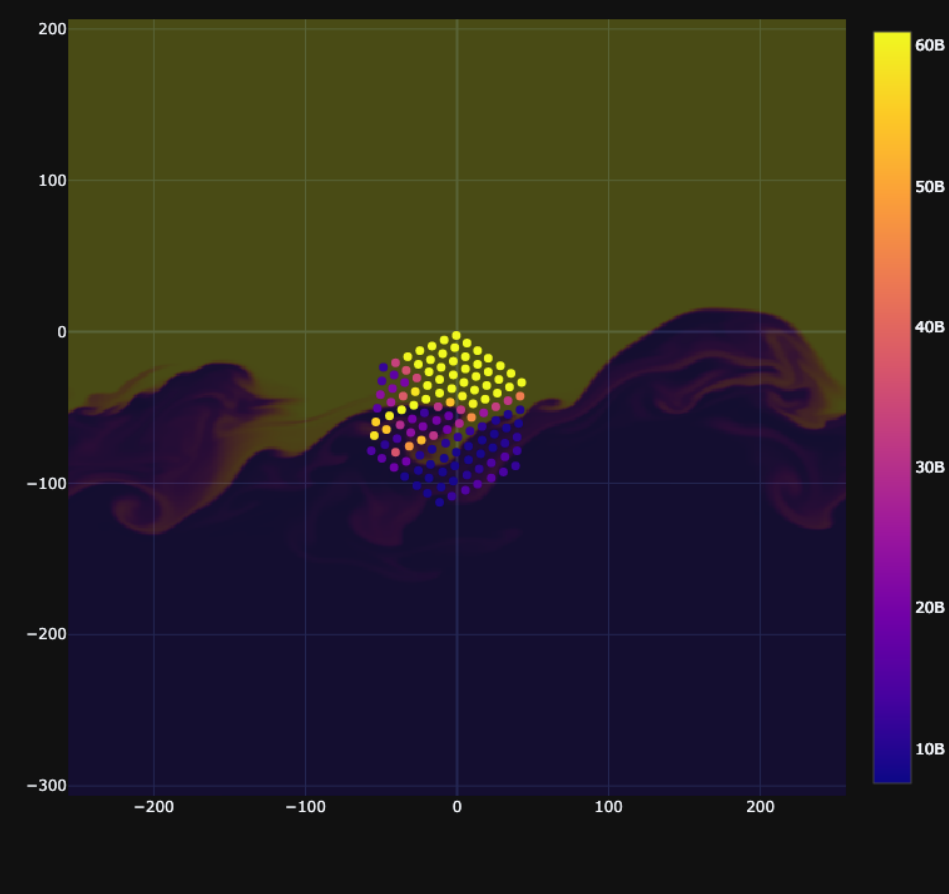
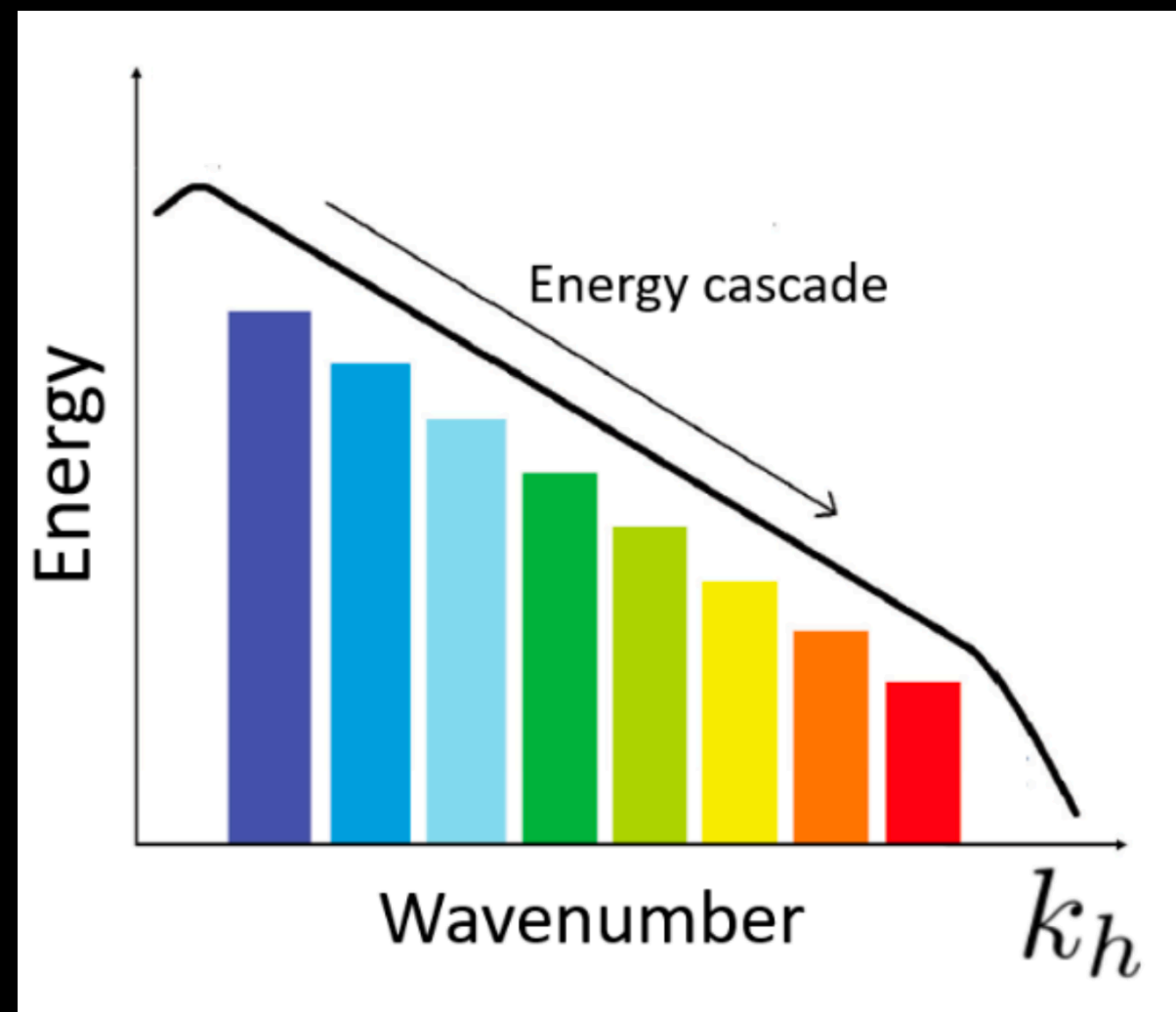
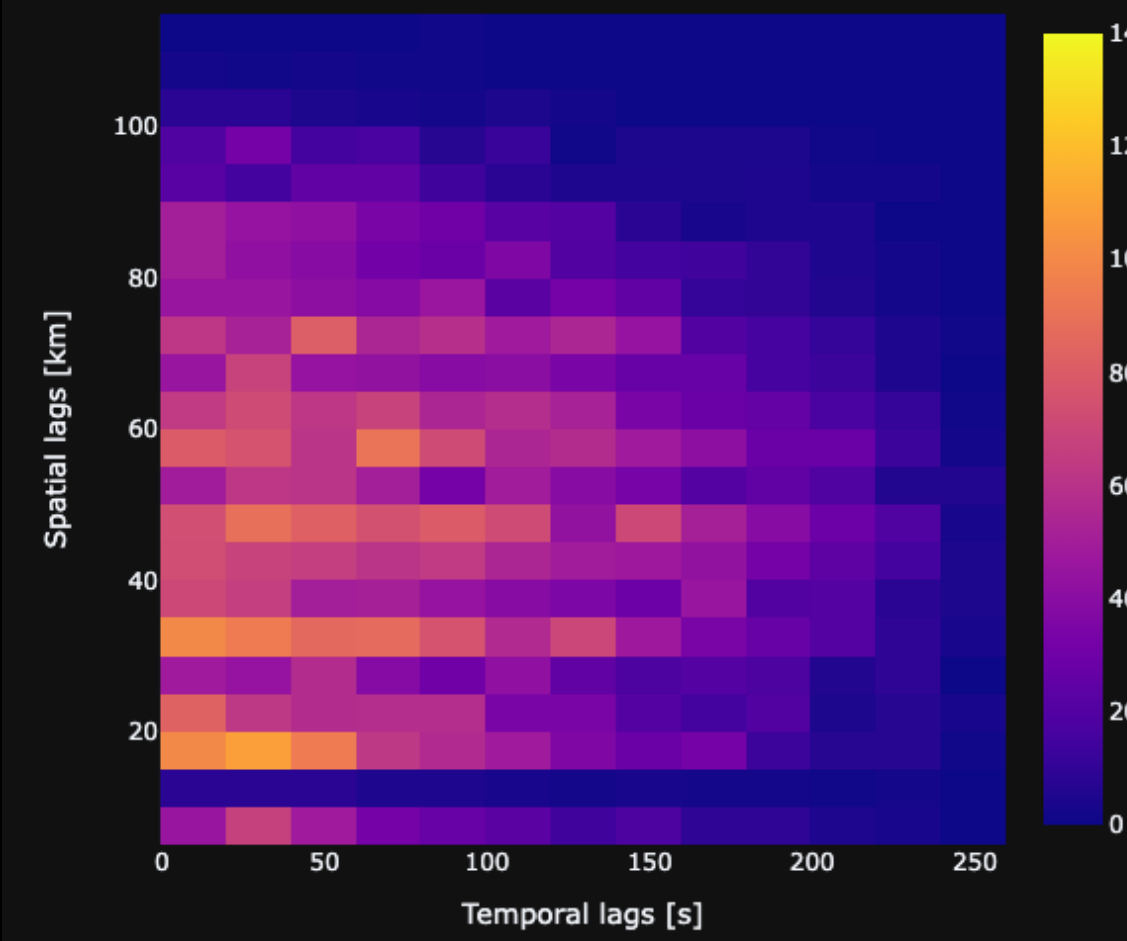
Spatiotemporal distribution of beamsampling / reading



Spatiotemporal distribution of beamsampling / circular



Spatiotemporal distribution of beamsampling / magic



Thank you

