



RECENT SHK WORK AT RADIATION GROUP

Lukas Monrad-Krohn Groupmeeting 10.12.2021

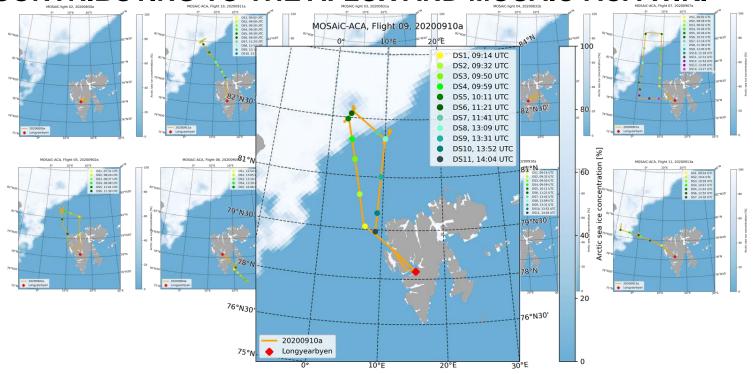
Lukas Monrad-Krohn



STRUCTURE

- Campaign tools & visualization
 - Flightpath Quicklooks
 - Kml-Files
 - GoPro-Video
- Combining spectral imager data
- Summary

CONTRIBUTING TO THE AFLUX AND MOSAIC-ACA WIKI

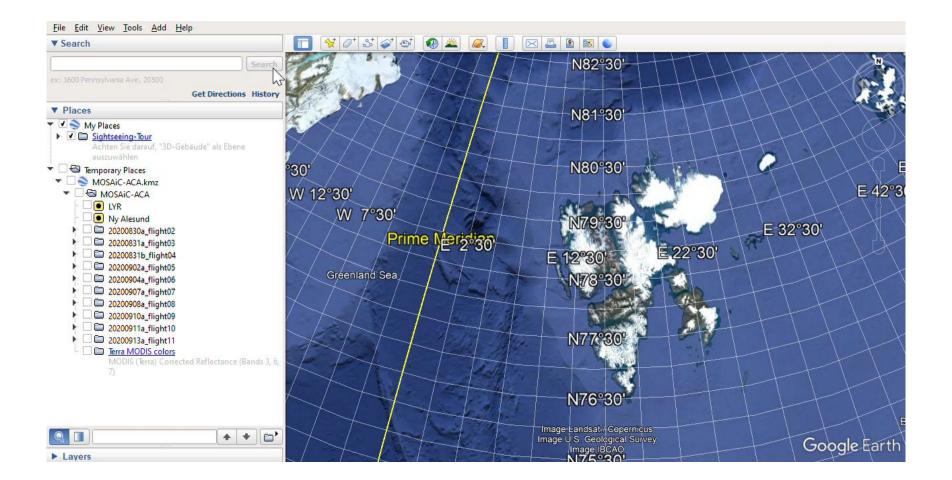


KML-FILE

- Keyhole Markup Language
- -Kmz = zipped kml
- For AFLUX and MOSAiC-ACA campaigns
- To be found: in Flight Logs of wikis or https://icon-lik/projekt_agmwend/data/AFLUX/AFLUX.kmz
 /projekt_agmwend/data/MOSAiC_ACA_S/MOSAiC-ACA.kmz



https://icon-library.com/icon/google-earth-pro-icon-5.html







AisaEAGLE

- Imaging spectrometer
- 488 channels from 400 970 nm
- FOV = 36° with 1024 pixels

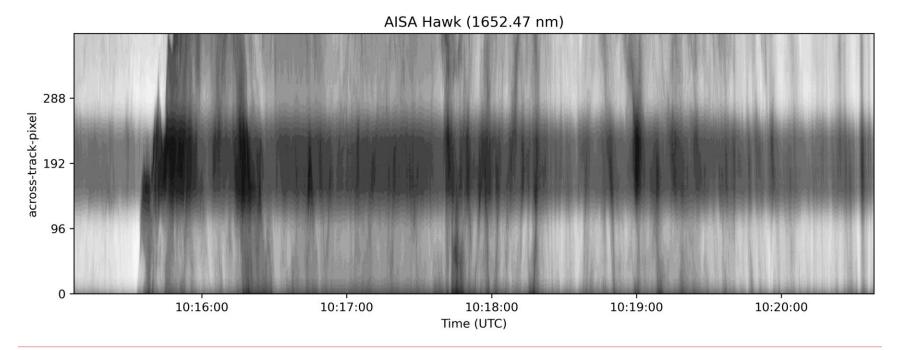
AisaHAWK

- Imaging spectrometer
- 254 channels from 970 2500 nm
- FOV = 36° with 384 pixels

Goal: - Combining datasets of AisaEAGLE and AisaHAWK

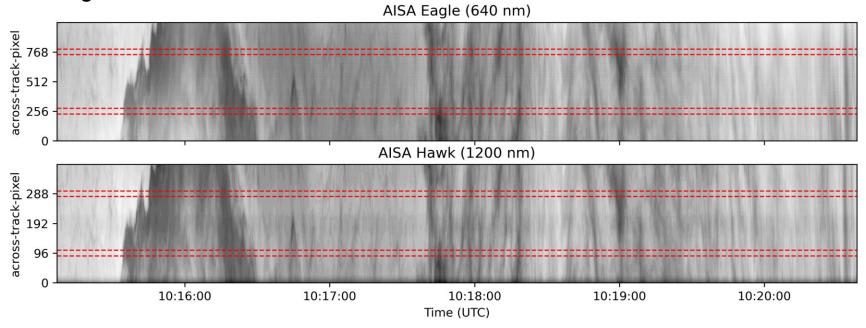
- full spectrum in one netcdf-file
- advantage: easier handling of data

Flight 09, 10th October 2020, 10:15 UTC



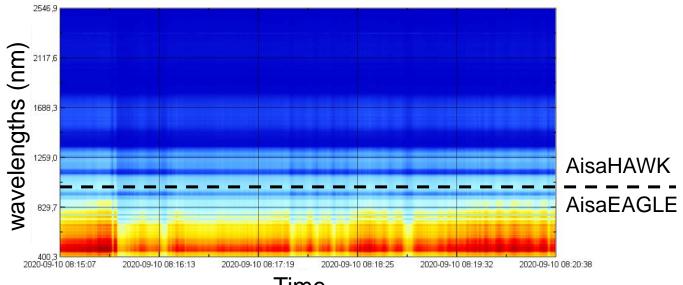
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Flight 09, 10th October 2020, 10:15 UTC



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spectral uppward Radiance measured inflight by Aisa Eagle (pixels 232-280) and Hawk (pixels 87-105)



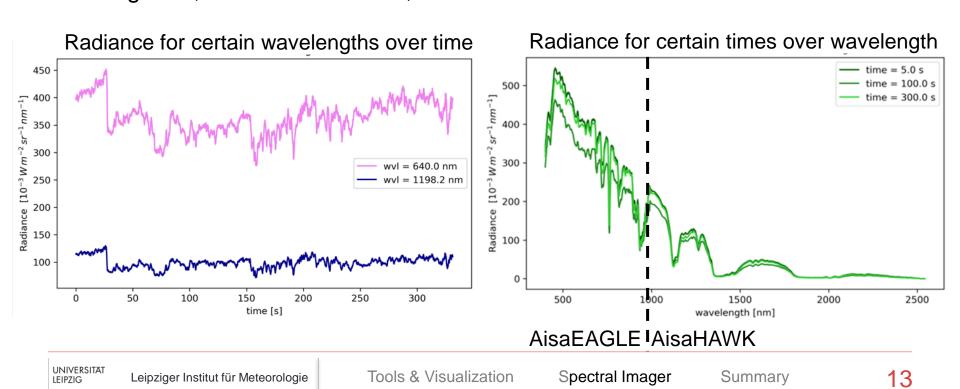
Time

spectral uppward Radiance measured inflight by Aisa Eagle (pixels 232-280) and Hawk (pixels 87-105) (10^{-3} W m^{-...



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Flight 09, 10th October 2020, 10:15 UTC



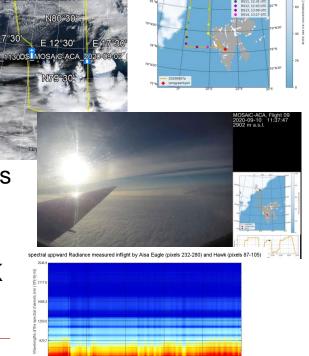
SUMMARY

THANK YOU FOR YOUR ATTENTION!

Kml-File is an interactive and comprehensive visualization tool

 GoPro-Video combines visual information of clouds with the location and altitude

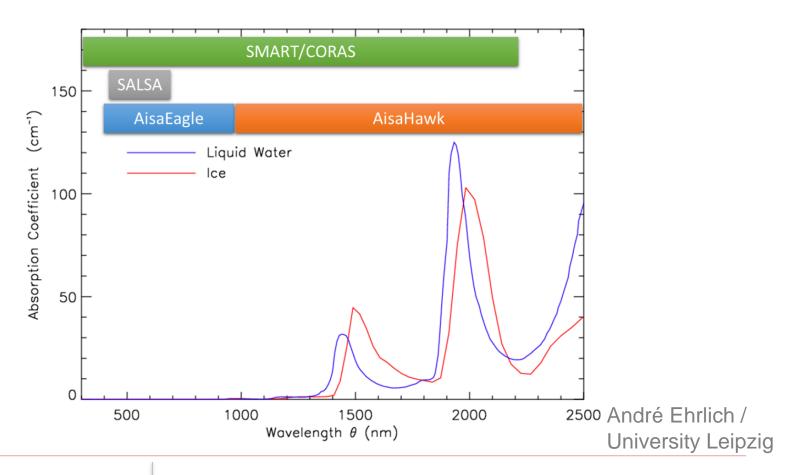
 Combined datasets of AisaEAGLE and AisaHAWK allows easier access to full spectrum



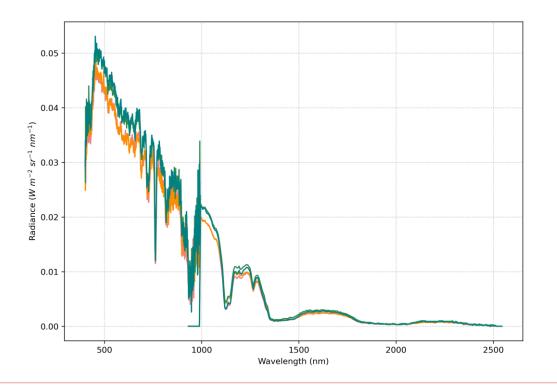


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RESULTS



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