


```

20 02 11121 99142 70572 11597 20811 10262 20203 40181 52016 70300 82800 22200 04272
20302 308// 40905 5///// 6///// ICE /////
20 02 11151 99142 70572 41497 30712 10263 20209 40189 50008 70311 83200 22200 04272
20302 308// 40905 5///// 6///// ICE /////
20 02 11181 99142 70572 11497 60710 10261 20211 40167 58022 70611 86200 22200 04272
20302 308// 40805 5///// 6///// ICE /////
20 02 11211 99141 70572 41497 60711 10262 20213 40156 56011 70611 86200 22241 04271
20302 308// 40905 5///// 6///// ICE /////

```

A sunny windy day with less dust than the day before. Relative frequent low small cell clouds though. No cirrus.

3. Cruise-day Elements

IWV (integrated water vapor): 35 kg /m2 +/- 2
LWP (liquid water path): 23 g /m2 +/- 47

Time	0-3UTC	4-6UTC	7-9UTC	10-12UTC	13-15UTC	16-18UTC	19-21UTC	22-24UTC
Height_m	693.13	693.13	715.49	715.49	715.49	849.65	670.77	737.85
max_hydro_frac_low	0.12	0.13	0.10	0.15	0.11	0.17	0.15	0.15
Height_m	1855.80	2794.89	1229.75	1207.39	1252.11	1207.39	1207.39	1609.85
max_hydro_frac_mid	0.10	0.23	0.03	0.04	0.02	0.07	0.11	0.05
Height_m	12836.47	12878.56	12878.56	12920.65	12878.56	12878.56	12836.47	12836.47
max_hydro_frac_high	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

low=up to 1200m, mid=up to 6000m, high=up to 15000m

hourly means of ship data (1st line 0-1 UTC, 2nd line 1-2 UTC ... last line 23-24 UTC)

salinity PSU	Tdew °C	Tair °C	Twater °C	TrueDir deg	RH %	rel.Wind m/s	trueWind m/s	lw Rad W/m ²	sw Rad W/m ²	lat °N	lon °E
35.3193	20.9	25.99	27.11	64.4	73.13	12.12	11.75	397.8	-1.15	14.18	-57.25
35.3005	20.55	26.15	27.17	68.35	70.88	13.42	13.04	395.87	-1	14.18	-57.25
35.3089	20.54	26.02	27.11	68.1	71.33	13.15	12.75	403.83	-1	14.18	-57.25
35.3179	20.6	26.04	27.1	68.83	71.55	12.7	12.29	412.3	-1	14.18	-57.25
35.3215	20.56	25.99	27.11	70.4	71.67	12.35	11.93	414.38	-0.93	14.18	-57.25
35.32	20.63	25.91	27.11	70.28	72.37	12.46	12.05	399.65	-1	14.18	-57.25
35.3258	20.52	25.84	27.1	72.43	72.15	12.36	11.93	392.73	-1	14.18	-57.25
35.3232	20.42	25.86	27.1	70.68	71.53	12.42	11.99	393.37	-1	14.18	-57.25
35.3202	20.34	25.85	27.1	74.05	71.28	12.14	11.72	394.88	-1	14.18	-57.25
35.3231	20.12	25.89	27.1	81.33	70.1	12.21	11.76	394.03	-1	14.18	-57.25
35.3327	20.5	25.89	27.1	78.03	71.8	11.72	11.26	395.32	31.58	14.18	-57.25
35.3318	20.48	26.01	27.15	73.55	71.17	11.63	11.21	400.67	197.98	14.18	-57.25
35.3375	20.33	26.11	27.15	75.7	70.17	11.04	10.92	392.78	411.53	14.18	-57.24
34.9149	20.76	26.2	27.15	75.33	71.57	11.48	10.87	402.3	586.42	14.18	-57.25
35.5573	20.9	26.27	27.2	75.42	71.97	11.53	11.09	405.7	735.85	14.18	-57.25

35.5629	21.11	26.18	27.2	72.23	73.27	11.32	10.9	408.48	830.9	14.18	-57.25
35.565	21.14	26.14	27.22	70.02	73.58	10.67	10.22	405.48	868.22	14.18	-57.25
35.5671	21.23	26.11	27.2	67.18	74.13	10.63	10.17	413.42	677.42	14.18	-57.25
35.5708	20.82	26.13	27.21	73.33	72.18	10.92	10.47	406.57	642.27	14.18	-57.25
35.5757	21.03	26.08	27.2	73.8	73.33	10.91	10.68	402.4	421.32	14.17	-57.24
35.5552	21.26	26.14	27.19	70.25	74.1	11.79	11.05	408.97	225.47	14.09	-57.24
35.5605	21.21	26.13	27.1	66.63	73.97	14.21	12.18	404.05	30.08	14.03	-57.17
35.4646	20.92	26.12	27.03	66.68	72.63	14.84	12.82	401.77	-0.88	13.99	-57.09
35.4532	20.53	26.17	27.12	72.85	70.75	14.99	12.95	393.69	-1	13.94	-57.01

inter-calibration: **MERIAN (12 -13 UTC)**
CTD stations: **9**
radiosondes: **7**
overflights: **none**

station no.	UTC	device	action	latitude	longitude	depth	contact person
M161 172	11 feb 2020 / 00:32-03:07	CTD	CTD	14°19.922 N	57°14.725' W	800	Baranowski
M161 173	11 feb 2020 / 02:33-03:07	CTD	CTD	14°19.922 N	57°14.725' W	800	Baranowski
M161 174	11 feb 2020 / 04:31-05:10	CTD	CTD	14°19.922 N	57°14.725' W	800	Baranowski
M161 175	11 feb 2020 / 06:27-07:06	CTD	CTD	14°19.922 N	57°14.725' W	800	Baranowski
M161 176	11 feb 2020 / 08:30-09:08	CTD	CTD	14°19.922 N	57°14.726' W	800	Baranowski
M161 177	11 feb 2020 / 10:25-11:02	CTD	CTD	14°19.922 N	57°14.725' W	800	Baranowski
M161 178	11 feb 2020 / 13:35-14:16	CTD	CTD	14°19.927 N	57°14.702' W	800	Baranowski
M161 179	11 feb 2020 / 16:24-17:05	CTD	CTD	14°19.927 N	57°14.701' W	800	Baranowski
M161 180	11 feb 2020 / 18:19-18:57	CTD	CTD	14°19.928 N	57°14.704' W	800	Baranowski

4. Instrument Status

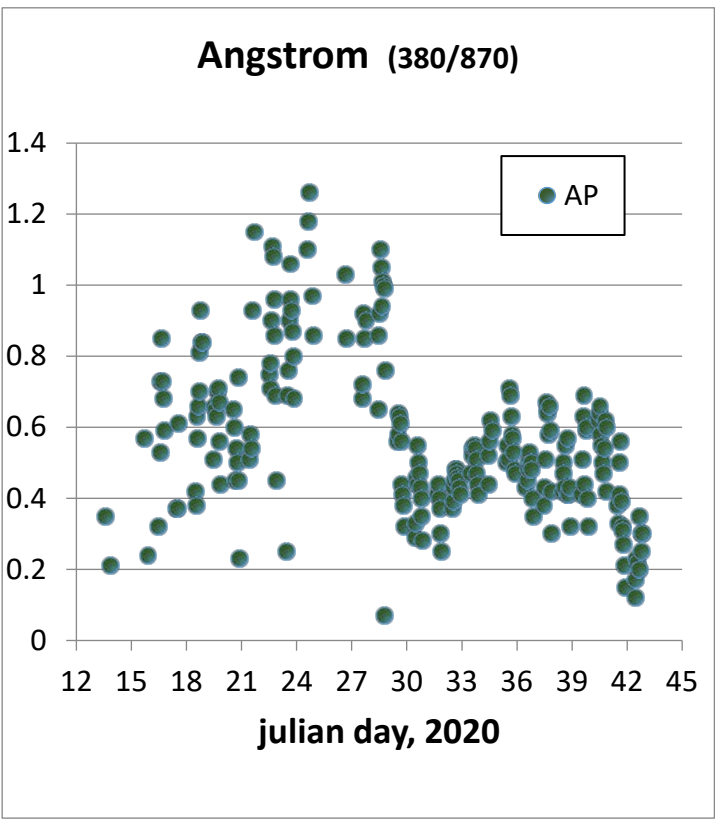
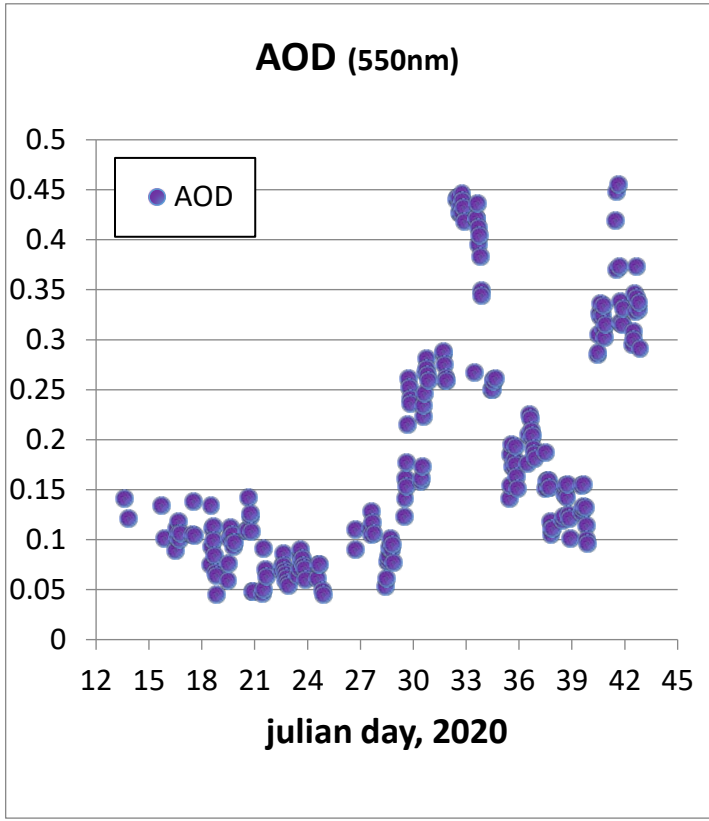
Instrument-Status (**W**-working, **P**-partially-working, **F**-failure, **U**-untested, **R**-ready, **L**-lost)

	status	operators
radiosondes	W	Katharina, Imke, Yanmichel, Almuth, Kevin, Sebastian, Geiske
cloud-radar	W	Heike, Johannes
micro-radiometer	W	Heike, Johannes
spect-radiometer	W	Heike, Johannes
Raman-lidar	W	Ludwig
cloud-kite	L	Oliver, Marcel, Marcel, Antonio, Robert, Sanola
Picarro	W	Sebastian
micro-biology	W	Wiebke, Jan, Abiel
ADPC ocean curr.	W	Callum, Beth

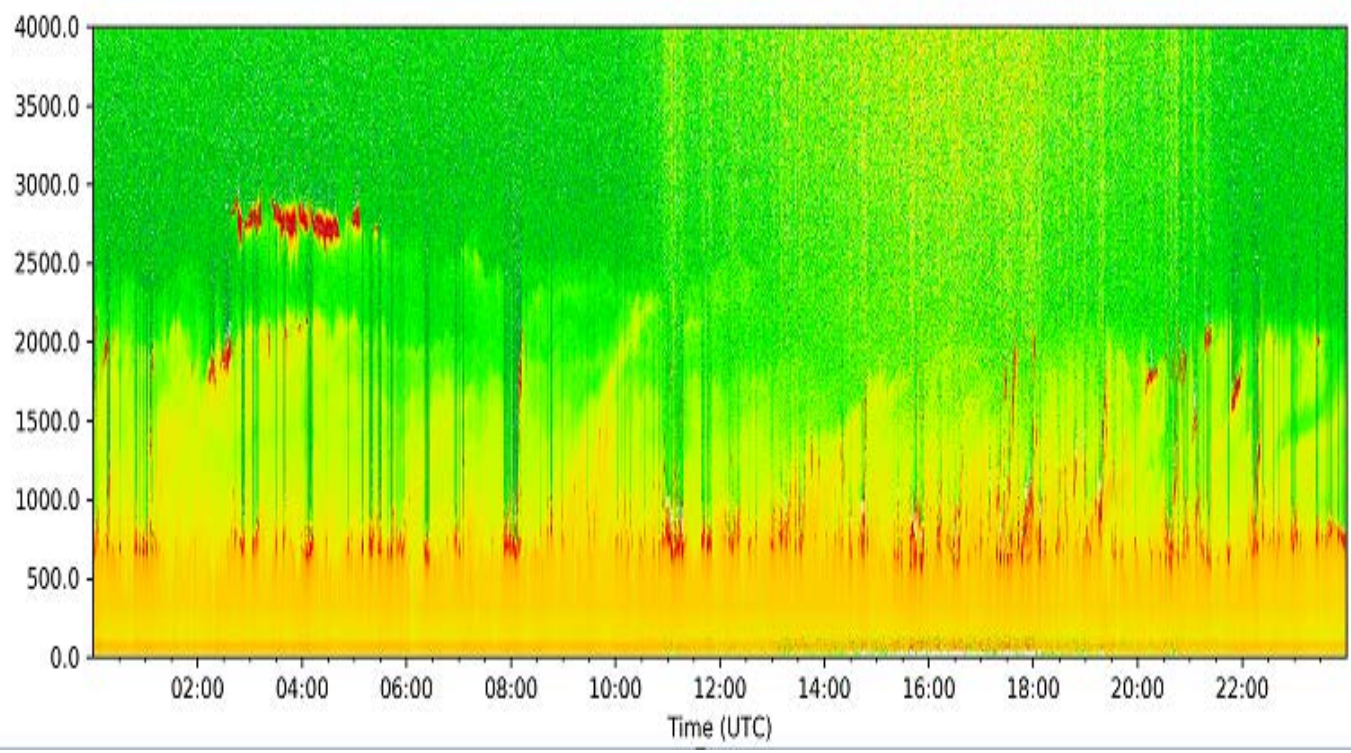
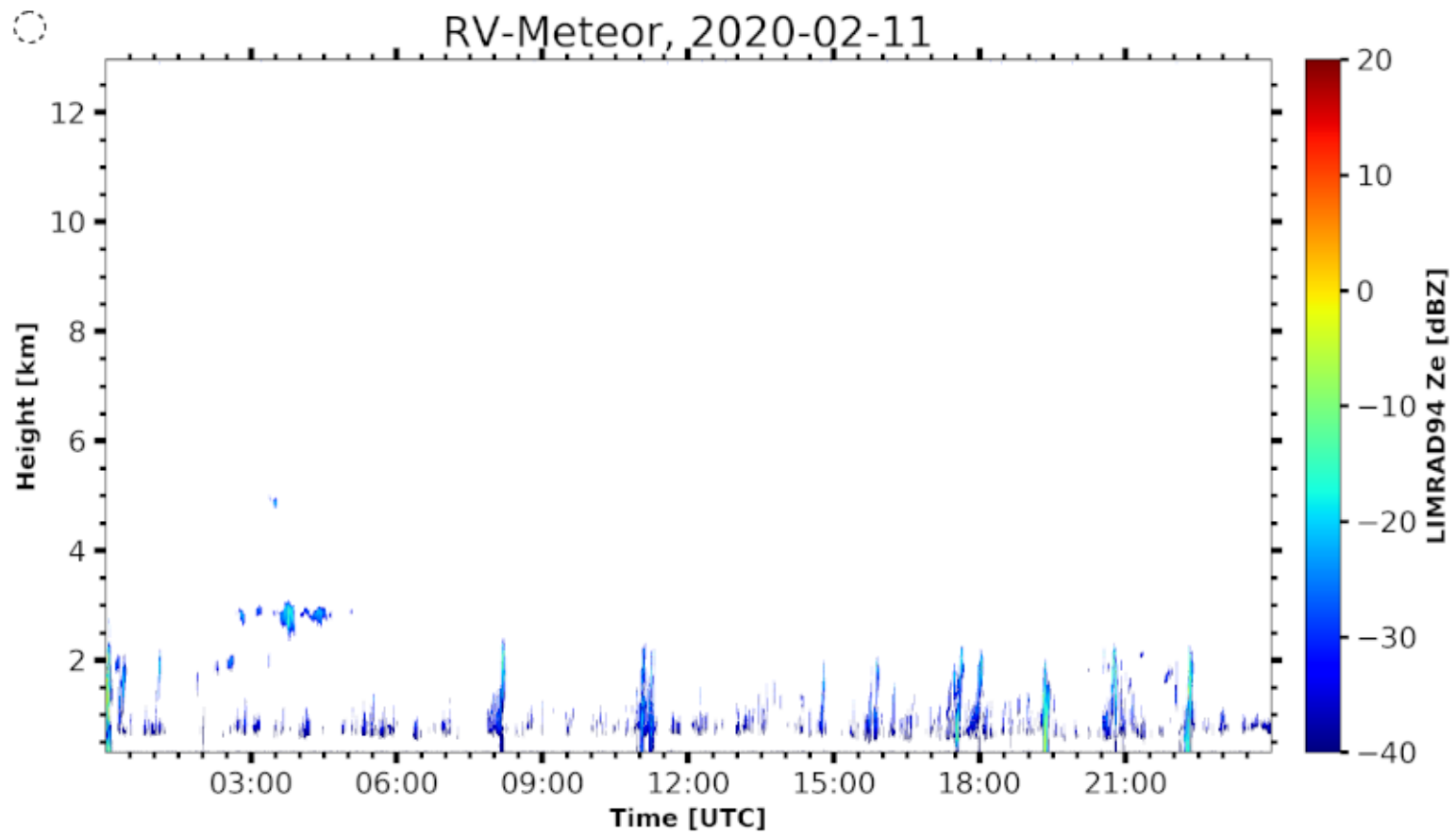
thermosalinograph			W	Callum, Beth
glider			W	Callum, Beth
UAV			W	Darek, Jakub, Michal, Wojciech
eddy-flux-data			W	Katharina, Imke, Heike
wind-lidar (DTU)			W	Geiske, Kevin
wind-lidar (Bre)			P	Geiske, Kevin
MAX-DOAS			W	Alma
ceilometer			W	Stefan
cloud camera			W	Stefan
sunphotometer			W	Stefan, Przemek, Andreas, John, Sanola
aero scat/abs			W	Przemek (Mr P)
WRAS (aero size)			W	Alma
CTD			W	Darek, Przemek, Beth, Callum, Alma, Sanola, Kevin, Robert, Wojtek, Almuth
Rodney			W	Darek, Jakub, Przemek

5. Outlook

We will reach L2 (on the way there this time without CTD stops – to let everyone ‘recover’).for another complete daily cycle.



Hourly average AOD (amount) and Angstrom parameter (inverse size) Jan 13 - Feb11



METEOR cloud radar and ceilometer data for Feb11