

20 02 20151 99136 70573 41598 30512 10257 20186 40159 50002 70300 83800 22222 04268
 20402 307// 40906 5//// 6//// ICE ////
 20 02 20181 99136 70572 11597 30709 10254 20203 40133 58026 70200 83800 22211 04269
 20301 307// 40905 5//// 6//// ICE ////
 20 02 20211 99140 70569 41598 10611 10259 20186 40130 55003 72580 81200 22212 04269
 20301 306// 40805 5//// 6//// ICE ////

Strong winds, some dust, few low clouds – with rare weak precipitation, no cirrus and lots of blue skies.

3. Cruise-day Elements

IWV (integrated water vapor): 28 kg /m2 +/- 2
 LWP (liquid water path): 29 g /m2 +/- 154

Time	0-3UTC	4-6UTC	7-9UTC	10-12UTC	13-15UTC	16-18UTC	19-21UTC
Height_m	983.80	872.00	849.65	894.36	961.44	872.00	894.36
max_hydro_frac_low	0.10	0.13	0.16	0.06	0.02	0.13	0.19
Height_m	1207.39	1207.39	2280.63	1207.39	1833.44	1855.80	1498.06
max_hydro_frac_mid	0.08	0.06	0.19	0.02	0.04	0.12	0.16
Height_m	12836.47	12836.47	12878.56	12878.56	12920.65	10437.53	12878.56
max_hydro_frac_high	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
35.9875	18.97	26.39	27.1	66.12	63.32	16.56	12.92	386.25	-1	13.1	-59.13
35.7866	19.06	26.29	27.01	66.28	64.1	15.83	12.18	393.7	-1.05	13.14	-59.01
35.6966	19.11	26.18	27.01	66.52	64.7	15.61	11.95	389.1	-1	13.17	-58.89
35.7747	19.3	26.05	27.05	66.63	66.02	14.78	10.88	388.72	-1.02	13.2	-58.77
35.7031	19.4	25.95	27.01	65.3	66.73	15.04	11.11	383.57	-1	13.23	-58.65
35.7202	19.56	25.77	27.09	65.28	68.15	14.01	10.06	387.98	-1	13.26	-58.52
35.6407	19.43	25.79	27.03	69.92	67.58	14.03	9.97	393.1	-1	13.3	-58.39
35.6294	19.19	25.68	26.97	68.83	67.08	14.4	10.44	412.73	-1	13.33	-58.26
35.5852	19.21	25.62	26.99	68.37	67.33	14.51	10.45	387.82	-1	13.37	-58.13
35.4684	18.95	25.62	26.89	66.5	66.3	14.69	10.69	384.22	-1	13.4	-58
35.5985	18.98	25.59	26.9	63.81	66.49	15.11	11.11	382.97	34.25	13.43	-57.87
35.611	18.81	25.71	26.86	59.75	65.27	15.65	11.75	377.83	229.87	13.47	-57.74
35.5596	18.72	25.84	26.78	59.53	64.5	15.98	11.82	384.47	478.2	13.5	-57.61
35.541	18.77	25.86	26.73	57.75	64.6	15.94	11.52	380.2	729.53	13.54	-57.47
35.5119	19.32	25.7	26.78	57.18	67.42	16.28	12.13	390.35	850.15	13.57	-57.33
35.5067	18.75	25.8	26.83	49.62	64.68	12.19	11.46	390.02	939.27	13.59	-57.25
35.5094	18.66	25.75	26.88	54.63	64.57	10.97	10.54	384.78	965.33	13.59	-57.25

35.5111	19.93	25.29	26.86	64.92	71.78	10.94	9.34	402.83	765.32	13.6	-57.24
35.5954	20.04	25.68	26.88	57.81	70.71	14.49	9.77	400.56	668.66	13.69	-57.16
35.7367	19.26	25.93	26.99	58.69	66.37	15.33	10.69	393.44	497.13	13.81	-57.06
35.7781	18.68	25.85	26.91	62.43	64.25	15.56	10.98	384.3	213.85	13.92	-56.95
35.7967	18.86	25.85	26.89	65.58	64.88	14.97	10.51	376.98	59.83	14.04	-56.85
35.5861	19.68	25.61	26.74	57.95	69.37	14.74	10.07	395.88	-0.8	14.16	-56.75
35.6459	19.29	25.6	26.62	59.02	67.73	16.06	11.55	406.19	-1	14.27	-56.64

inter-calibration: 0
CTD stations: 2
radiosondes: 1
overflights: none

station no.	date / time UTC	device	action	latitude [°N]	longitude[°W]	depth [m]	contact
M161 237	20 feb 2020 / 15:15-16:10	CTD	CTD	13°35.642 N	57°14.703' W	800	Baranowski
M161 238	20 feb 2020 / 16:51-17:16	CTD	sample	13°35.643 N	57°14.701' W	250	Mohr

4. Instrument Status

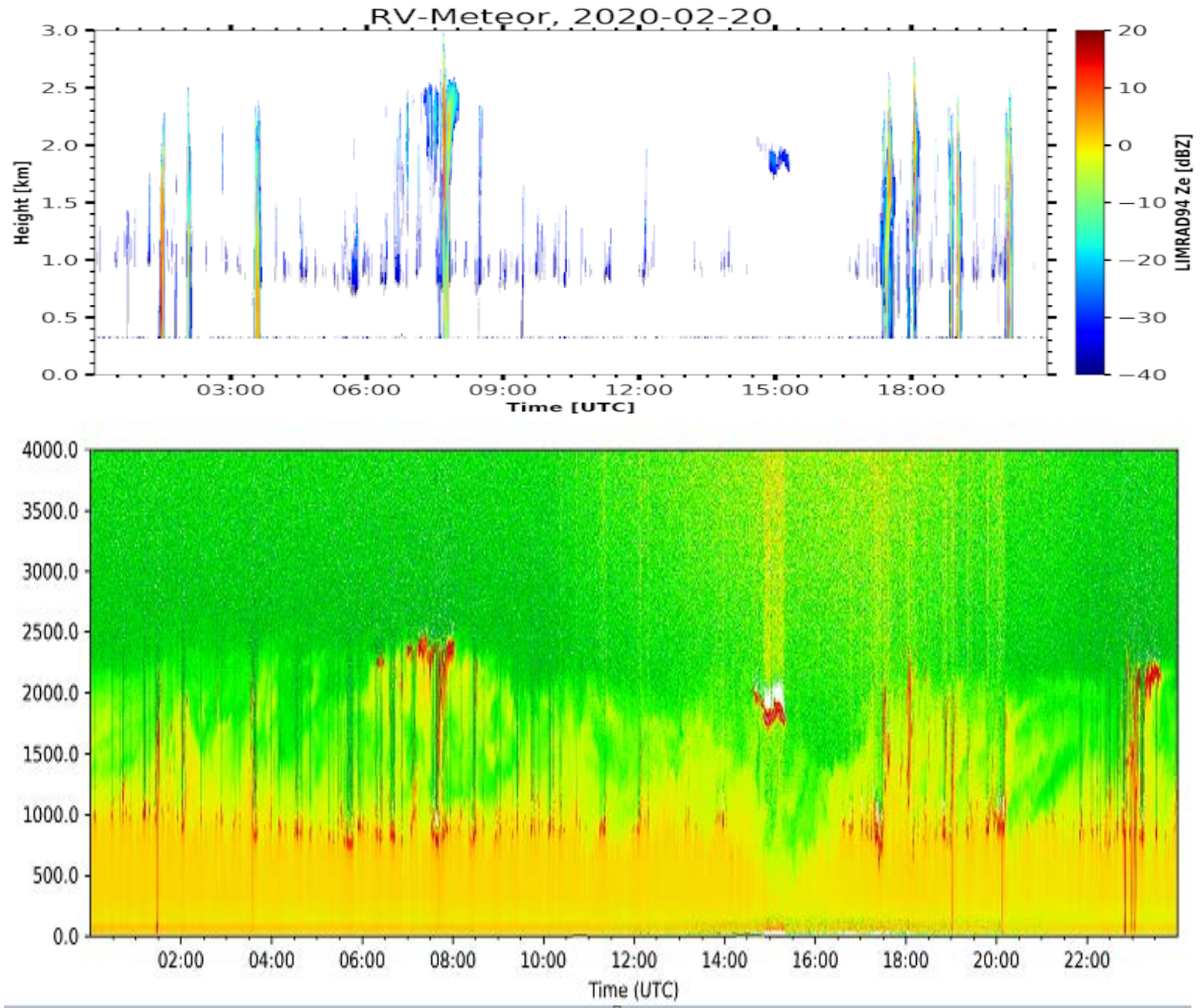
Instrument-Status (**W**-working, **P**-partially-working, **F**-failure, **U**-untested, **R**-ready, **L**-lost, **S**-stopped)

			status	operators
radiosondes			R	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
spare cloud-kite			F	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			S	Callum, Beth
UAV			R	Darek, Jakub, Michal, Wojciech
eddy-flux-data			W	Katharina, Imke, Heike
wind-lidar (DTU)			W	Geiske, Kevin
wind-lidar (Bre)			F	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)

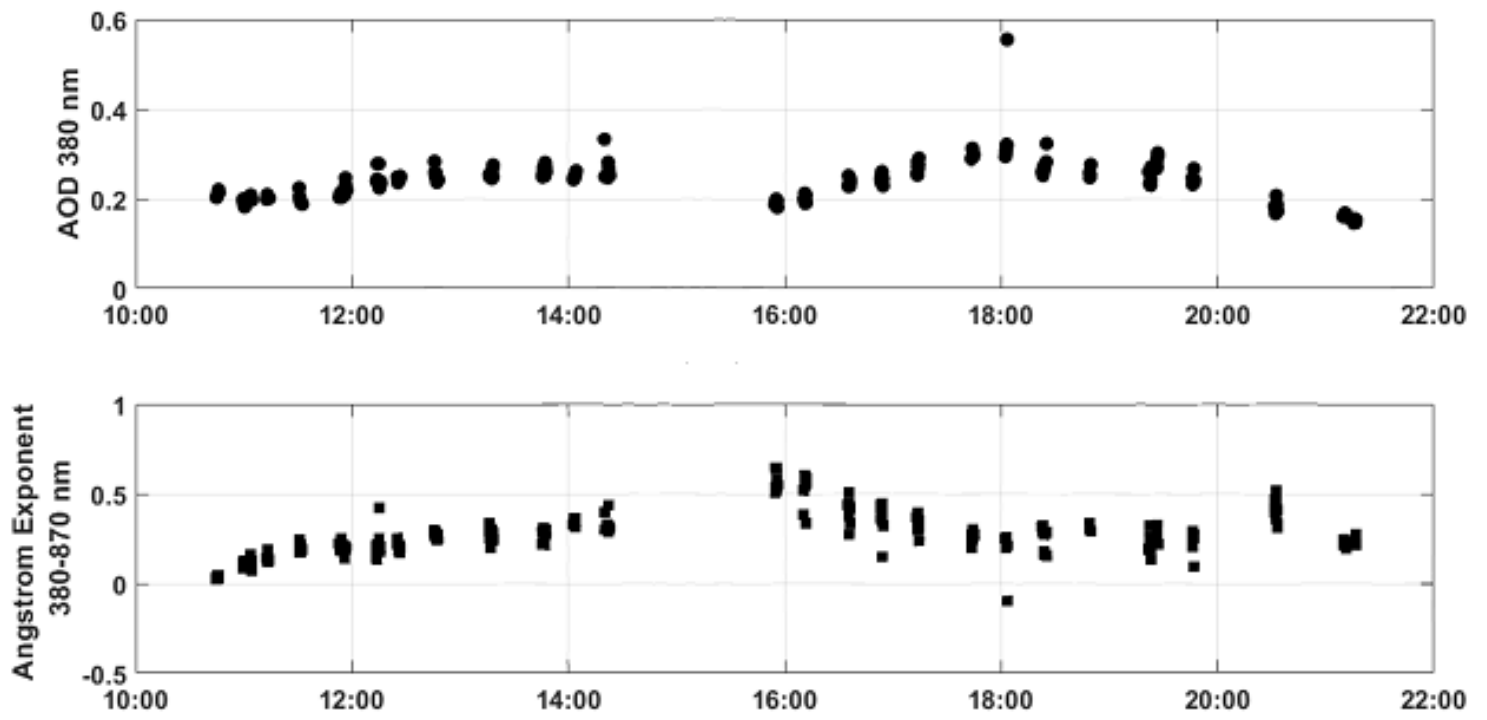
WRAS (aero size)		W	Alma
CTD		W	Darek, Przemek, Beth, Callum, Alma, Sanola, Kevin, Robert, Wojtek, Almuth
Rodney		R	Darek, Jakub, Przemek

5. Outlook

Tomorrow morning we will leave the Barbados EEZ and deploy one ARGO float.



METEOR cloud-radar data (top) and ceilometer (bottom) of Feb 20



Aerosol samples for amount (AOD 380, top) and for inverse size (Angstrom exp., bottom) for Feb 20