


```

20 01 20121 99138 70573 11498 70610 10242 20205 40170 51019 72581 873// 22231 04274
20302 30107 41107 50804 6///// ICE /////
20 01 20151 99141 70573 41598 50810 10263 20217 40175 50005 70182 85800 22282 04273
20302 30106 41207 50804 6///// ICE /////
20 01 20181 99145 70572 11498 60908 10252 20213 40149 56026 71681 86300 22202 04273
20302 30107 41206 50804 6///// ICE /////
20 01 20211 99142 70573 41498 10808 10260 20199 40146 55003 70181 81300 22241 04274
20301 30208 41205 50804

```

today we had several rain clouds passing over RV Meteor.

showers were observed between 6 - 18 UTC from warm Cu clouds with tops around 2.5 - 3 km

long rain-free stretches in between.

clouds cleared up after 21 UTC.

3. Cruise-day Elements

IWV (integrated water vapor): 31 kg /m2 +/-3
LWP (liquid water path): 165 g /m2 +/-476

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
35.3105	20.89	26.03	27.44	60.88	72.88	7.72	10.73	390.05	-1	13.68	-56.84
35.384	21.35	25.77	27.44	67.77	76.1	6.87	10.49	384.35	-1	13.73	-57.03
35.6526	20.98	26.01	27.49	64.19	73.44	8.03	10.75	387.39	-1	13.77	-57.2
35.7415	21.05	25.97	27.58	73.33	73.92	10.11	9.69	394.17	-1	13.79	-57.26
35.7511	21.03	25.77	27.6	81.45	74.72	10.29	10.18	390.17	-1	13.79	-57.27
35.7392	21.14	25.43	27.54	84.42	76.73	10.84	10.74	398.55	-0.88	13.79	-57.29
35.7475	20.95	24.75	27.6	75.82	79.1	11.58	11.36	425.87	-0.93	13.79	-57.31
35.7656	20.76	24.98	27.59	72.68	77	9.25	9.13	408.58	-0.72	13.79	-57.32
35.7811	20.96	24.76	27.59	78.03	78.98	10.22	10.15	407.6	-0.85	13.79	-57.33
35.6154	20.72	24.7	27.43	80.97	78.17	10.44	10.41	397.37	-0.88	13.79	-57.35
35.5117	21.14	23.19	27.31	90.43	88.02	10.71	10.95	433.55	11.82	13.78	-57.36
35.5971	21.3	23.66	27.28	84.85	86.28	10.56	9.01	433.4	84.15	13.78	-57.36
35.6784	21.11	25.24	27.36	73.88	77.55	12.7	10.27	431.38	221.25	13.78	-57.26
35.7577	20.81	26.05	27.43	84.07	72.52	13.86	12.12	406.98	480.85	13.9	-57.24
35.4165	20.83	26.15	27.34	81	72.16	11.88	10.84	394.74	782.89	14.04	-57.25
35.3703	21.21	25.8	27.33	82.88	75.43	12.95	11.3	404.92	835.87	14.09	-57.25
35.3788	20.92	25.25	27.23	87.77	76.52	13	11.54	399.1	821.18	14.24	-57.25
35.49	21.2	25.15	27.29	95.2	78.4	10.79	10.16	404.88	772.97	14.4	-57.25
35.6276	21.21	24.63	27.34	87.23	80.83	9.61	8.62	425.55	495.4	14.45	-57.25
35.4673	21.22	25.35	27.23	86.8	77.5	10.85	9.59	401.68	388.53	14.34	-57.24
35.3902	20.11	25.55	27.34	80.02	71.59	9.79	9.43	391.47	245.76	14.19	-57.25
35.3839	20.57	25.79	27.36	75.53	72.58	9.95	9.04	384.58	35.15	14.15	-57.25
35.5828	20.34	25.94	27.35	75.18	70.87	10.41	9.91	380.8	-1	13.99	-57.24

35.6208 21.03 25.74 27.43 83.41 74.92 8.89 7.72 418.15 -0.92 13.82 -57.25

inter-calibration: none

CTD stations: 4

radiosondes: 7

overflights: 0

station no.	UTC	device	action	latitude	longitude	depth	contact person
M161 04	20 jan 2020 / 14:30-15:10	CTD	CTD	14°03.164 N	57°15.612' W	500	Baranowski
M161 05	20 jan 2020 / 17:59-18:36	CTD	CTD	14°27.034 N	57°14.881' W	800	Baranowski
M161 06	20 jan 2020 / 20.33-21:11	CTD	CTD	14°10.635 N	57°15.193' W	800	Baranowski
M161 07	20 jan 2020 / 23:46-00:22	CTD	CTD	13°47.071 N	57°15.070' W	800	Baranowski

4. Instrument Status

Instrument-Status (**W**-working, **P**-partially-working, **F**-failure, **U**-untested)

	status	operators
radiosondes	W	Katharina, Imke, Yanmichel, Dorothea, Kevin
cloud-radar	W	Heike, Johannes
micro-radiometer	W	Heike, Johannes
spect-radiometer	W	Heike, Johannes
Raman-lidar	W	Ludwig
cloud-kite	U	Oliver, Marcel, Marcel, Antonio, Robert, Sanola
Picarro	W	Sebastian
micro-biology	U	Wiebke, Jan, Abiel
ADPC ocean curr.	W	Callum, Beth
thermosalinograph	W	Callum, Beth
glider	U	Callum, Beth
UAV	U	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
aero scat/abs	W	Przemek
WRAS (aero size)	W-	Alma
CTD	W	Darek and friends

5. Outlook

Tomorrow we will start and end at the glider site traveling along 57.245 W with regular stops to train CTD operations for upcoming shifts. Unclear on other actions.... as it depends on the new standard HALO flight track placement.