Aerosol measurments using MICROPTOPS Sunphotometer

Transferring scans to MACOSX

Using Coolterm and DIGITUS and USB to Serial adapter

Install coolterm a “Port Terminal Application” http://freeware.the-meiers.org/CoolTermMac.zip.

1. Connect the Microtops to your MAC using a “USB to Serial” (you may need a USB-C to USB adapter aswell if you use the newest MAC)
    1. adapter DIGITUS USB auf Seriell Adapter - RS232 Konverter - USB 2.0 Typ-A zu DSUB 9M - FTDI Chipsatz - 80 cm Verlängerungs-Kabel
2. Once the serial adapter connected and the MICCROTOPS powered on:
    1. Go to the menu Connections/Options menu:
    2. set in Serial port, the **port to “USBserial”**
    3. eventually re-scan serial ports
    4. set in Serial port the **Baudrate to 4800**
    5. click icon “connect”
    6. Press p on keyboard.
    7. Scans get print on screen
    8. CUT and Paste to Textediting program, (comma separated values)
    9. after saving Scan Clear microtops of DATA using C

Example microtops Data

Gerät ID	Datum	uhrzeit	Breitengrad	längengrad	Alt	Pressure	SZA	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.38um	AOT 0.44um	0.67um	0.87um	094um	WATER CM/M2
16824	05/20/2019	9:24:15	53.567	9.977	17	1000	39.91	1.303	1.026	24.6	81	392.63	349.51	565.76	963.44	227.76	NaN	NaN	NaN	NaN	NaN	1.1234	0.6178	0.5872	4.2301	0.895	0.685	0.554	0.417	0.379	2.23
16824	05/20/2019	9:24:53	53.567	9.977	17	1000	39.85	1.301	1.026	24.8	81	658.70	505.71	756.67	1219.26	326.21	NaN	NaN	NaN	NaN	NaN	1.3025	0.6683	0.6206	3.7377	0.499	0.402	0.331	0.236	0.215	1.88
16824	05/20/2019	9:25:52	53.567	9.977	17	1000	39.75	1.299	1.026	25.0	81	669.26	517.81	848.29	1319.21	366.13	NaN	NaN	NaN	NaN	NaN	1.2925	0.6104	0.6430	3.6031	0.488	0.384	0.244	0.176	0.160	1.78
16824	05/20/2019	9:26:05	53.567	9.977	17	1000	39.73	1.299	1.026	25.0	81	666.69	518.39	846.77	1328.60	370.24	NaN	NaN	NaN	NaN	NaN	1.2861	0.6122	0.6373	3.5885	0.491	0.384	0.245	0.171	0.155	1.77
16824	05/20/2019	9:26:24	53.567	9.977	17	1000	39.69	1.298	1.026	25.1	81	673.01	520.12	856.51	1341.46	367.78	NaN	NaN	NaN	NaN	NaN	1.2940	0.6073	0.6385	3.6474	0.484	0.381	0.236	0.163	0.149	1.80
16824	05/20/2019	9:26:36	53.567	9.977	16	1000	39.67	1.298	1.026	25.1	81	664.45	514.71	846.10	1311.67	356.70	NaN	NaN	NaN	NaN	NaN	1.2909	0.6083	0.6451	3.6773	0.494	0.390	0.246	0.181	0.164	1.83
16824	05/20/2019	9:27:09	53.567	9.977	16	1000	39.62	1.297	1.026	25.2	81	630.10	503.13	848.87	1340.01	367.80	NaN	NaN	NaN	NaN	NaN	1.2524	0.5927	0.6335	3.6433	0.536	0.408	0.244	0.164	0.149	1.80
16824	05/20/2019	9:27:16	53.567	9.977	16	1000	39.61	1.297	1.026	25.2	81	667.95	516.57	858.10	1347.42	370.67	NaN	NaN	NaN	NaN	NaN	1.2931	0.6020	0.6369	3.6351	0.491	0.387	0.235	0.160	0.146	1.80
16824	05/20/2019	9:27:25	53.567	9.977	16	1000	39.59	1.297	1.026	25.3	81	666.09	515.90	852.62	1339.38	362.15	NaN	NaN	NaN	NaN	NaN	1.2911	0.6051	0.6366	3.6984	0.493	0.389	0.240	0.165	0.150	1.84
16824	05/20/2019	9:27:41	53.567	9.977	16	1000	39.57	1.296	1.026	25.3	81	621.61	482.19	814.65	1299.38	346.75	NaN	NaN	NaN	NaN	NaN	1.2892	0.5919	0.6270	3.7473	0.547	0.441	0.276	0.188	0.171	1.88
16824	05/20/2019	9:27:48	53.567	9.977	15	1000	39.55	1.296	1.026	25.4	81	675.61	521.21	860.09	1352.40	370.10	NaN	NaN	NaN	NaN	NaN	1.2962	0.6060	0.6360	3.6541	0.483	0.381	0.234	0.157	0.143	1.81
16824	05/20/2019	9:27:59	53.567	9.977	15	1000	39.53	1.295	1.026	25.4	81	659.38	507.91	838.86	1333.84	365.12	NaN	NaN	NaN	NaN	NaN	1.2982	0.6055	0.6289	3.6532	0.502	0.401	0.253	0.168	0.153	1.81
16824	05/20/2019	9:28:10	53.567	9.977	15	1000	39.52	1.295	1.026	25.5	81	661.55	513.91	854.59	1332.79	360.21	NaN	NaN	NaN	NaN	NaN	1.2873	0.6014	0.6412	3.7000	0.500	0.392	0.239	0.169	0.154	1.84
16824	05/20/2019	9:28:21	53.567	9.977	15	1000	39.50	1.295	1.026	25.5	81	669.57	517.11	848.82	1341.45	371.10	NaN	NaN	NaN	NaN	NaN	1.2948	0.6092	0.6328	3.6148	0.491	0.388	0.244	0.164	0.149	1.79
16824	05/20/2019	9:28:31	53.567	9.977	15	1000	39.48	1.294	1.026	25.6	81	662.93	511.30	837.44	1330.78	363.85	NaN	NaN	NaN	NaN	NaN	1.2966	0.6106	0.6293	3.6575	0.499	0.396	0.255	0.170	0.155	1.82
16824	05/20/2019	9:28:40	53.567	9.977	15	1000	39.47	1.294	1.026	25.6	81	656.03	507.96	847.48	1338.79	368.28	NaN	NaN	NaN	NaN	NaN	1.2915	0.5994	0.6330	3.6352	0.507	0.402	0.246	0.165	0.150	1.80
16824	05/20/2019	9:28:50	53.567	9.977	15	1000	39.45	1.294	1.026	25.6	81	660.01	510.50	850.70	1336.11	366.71	NaN	NaN	NaN	NaN	NaN	1.2929	0.6001	0.6367	3.6435	0.502	0.398	0.243	0.167	0.152	1.81
16824	05/20/2019	9:29:06	53.567	9.977	15	1000	39.42	1.293	1.026	25.7	81	669.26	517.57	852.37	1343.69	370.36	NaN	NaN	NaN	NaN	NaN	1.2931	0.6072	0.6344	3.6281	0.492	0.388	0.241	0.163	0.148	1.80
16824	05/20/2019	9:29:14	53.567	9.977	15	1000	39.41	1.293	1.026	25.7	81	664.96	516.40	845.47	1350.15	371.65	NaN	NaN	NaN	NaN	NaN	1.2877	0.6108	0.6262	3.6329	0.497	0.389	0.248	0.159	0.145	1.80
16824	05/20/2019	9:29:40	53.567	9.977	15	1000	39.37	1.292	1.026	25.7	81	645.41	506.48	831.06	1325.66	364.58	NaN	NaN	NaN	NaN	NaN	1.2743	0.6094	0.6269	3.6361	0.521	0.405	0.261	0.173	0.158	1.81
16824	05/20/2019	9:29:49	53.567	9.977	15	1000	39.35	1.292	1.026	25.7	81	667.46	517.47	854.38	1350.21	372.03	NaN	NaN	NaN	NaN	NaN	1.2898	0.6057	0.6328	3.6293	0.495	0.388	0.240	0.159	0.145	1.80
16824	05/20/2019	9:29:57	53.567	9.977	15	1000	39.34	1.292	1.026	25.7	81	666.85	518.24	849.08	1337.18	361.05	NaN	NaN	NaN	NaN	NaN	1.2868	0.6104	0.6350	3.7036	0.496	0.387	0.245	0.167	0.152	1.85
16824	05/20/2019	9:30:06	53.567	9.977	15	1000	39.32	1.292	1.026	25.7	81	643.76	499.74	815.32	1304.24	359.19	NaN	NaN	NaN	NaN	NaN	1.2882	0.6129	0.6251	3.6310	0.523	0.416	0.276	0.186	0.169	1.81
END.																															

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