

Supporting information to the manuscript:

The influence of environmental drivers on the enrichment of organic carbon in the sea surface microlayer and in submicron aerosol particles – measurements from the Atlantic Ocean

Manuela van Pinxteren¹, Stefan Barthel¹, Khandeh Wadinga Fomba¹, Konrad Müller¹, Wolf von Tümpling², Hartmut Herrmann^{1*}

¹ Leibniz Institute for Tropospheric Research (TROPOS), Permoserstr. 15, 04318 Leipzig, Germany

² Helmholtz Centre for Environmental Research - UFZ Brückstraße 3a, 39114 Magdeburg, Germany

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*Corresponding author

Tel.: +49-(0)341 2717 7024

Fax: +49-(0)341 2717 99 7024

E-mail: herrmann@tropos.de

Table S2. Concentrations of water soluble and water insoluble organic carbon organic carbon (WSOC, WISOC), elemental carbon (EC) and sodium (Na⁺) in the submicron aerosol particles together with together with chl-a concentrations and wind speed.

Campaign	Sampling area ^a	Sampling date	WSOC µg/m ³	WISOC µg/m ³	EC µg/m ³	Na ⁺ µg/m ³	chl-a LC-FLD ^b	chl-a satellite	Wind speed ^d m/s
Cape Verde, SOPRAN 2011-I	n. off. spring 2011	02.05.2011	0.16	0.01	0.04	0.51	0.10 ^c	0.10	3.7
Cape Verde, SOPRAN 2011-I	n. off. spring 2011	03.05.2011	0.14	0.01	0.01	0.04	0.10 ^c	0.12	6.0
Cape Verde, SOPRAN 2011-I	n. off. spring 2011	04.05.2011	0.16	0.01	0.04	0.04	0.10 ^c	0.08	9.3
Cape Verde, SOPRAN 2011-I	n. off. spring 2011	05.05.2011	0.16	0.01	0.04	0.04	0.10 ^c	0.08	9.3
Cape Verde, SOPRAN 2011-I	n. off. spring 2011	07.05.2011	0.11	0.01	0.01	0.06	0.10 ^c	0.10	8.3
Cape Verde, SOPRAN 2011-I	n. off. spring 2011	09.05.2011	0.25	0.01	0.01	0.06	0.10 ^c	0.11	7.3
Cape Verde SOPRAN	n. off. fall 2011	10.11.2011	0.08	0.01	0.03	0.13	0.29	0.16	6.8

2011-II										
Cape Verde SOPRAN										
2011-II	n. off. fall 2011	12.11.2011	0.17	0.17	0.01	0.08	0.30 ^c	0.14	3.0	
Cape Verde SOPRAN										
2011-II	n. off. fall 2011	13.11.2011	0.13	0.07	0.01	0.04	0.30 ^c	0.10	5.8	
Cape Verde SOPRAN										
2011-II	n. off. fall 2011	14.11.2011	0.12	0.11	0.07	0.06	0.30 ^b	0.10	10	
Cape Verde SOPRAN										
2011-II	n. off. fall 2011	18.11.2011	0.02	0.35	0.02	0.08	0.30 ^c	0.18	11	
Cape Verde SOPRAN										
2011-II	n. off. fall 2011	21.11.2011	0.04	0.23	0.06	0.14	0.30 ^c	0.20	9.8	
Cape Verde SOPRAN										
2011-II	n. off. fall 2011	24.11.2011	0.18	0.20	0.01	0.15	0.39	0.13	5.0	
Cape Verde, SOPRAN										
2013	n. off. fall 2013	11.11.2013	0.06	0.66	0.07	0.25	0.29	0.11	7.8	
Cape Verde, SOPRAN										
2013	n. off. fall 2013	12.11.2013	0.01	0.43	0.05	0.16	0.05	0.16	9.7	
Cape Verde, SOPRAN										
2013	n. off. fall 2013	13.11.2013	0.01	0.51	0.07	0.07	-	-	8.0	
Cape Verde, SOPRAN										
2013	n. off. fall 2013	15.11.2013	0.07	0.17	0.04	0.11	0.19	0.19	11	
Cape Verde, SOPRAN										
2013	n. off. fall 2013	17.11.2013	0.03	0.21	0.01	0.15	0.19	0.19	11	
Cape Verde, SOPRAN										
2013	n. off. fall 2013	19.11.2013	0.03	0.20	0.01	0.16	0.43	0.21	7.5	
Cape Verde, SOPRAN										
2013	n. off. fall 2013	21.11.2013	0.02	0.10	0.01	0.05	0.60	0.21	8.0	
Cape Verde, SOPRAN										
2013	n. off. fall 2013	23.11.2013	0.08	0.15	0.02	0.05	0.07	0.17	9.7	
Ant-XXVIII-5	s. off. spring 2012	15.04.2012	0.28	0.07	0.05	0.08	0.30	0.29	7.0	
Ant-XXVIII-5	s. off. spring 2012	16.04.2012	0.27	0.01	0.01	0.08	0.15	0.16	6.6	
Ant-XXVIII-5	s. off. spring 2012	17.04.2012	0.26	0.01	0.03	0.08	0.08	0.11	2.4	
Ant-XXVIII-5	s. off. spring 2012	18.04.2012	0.21	0.07	0.05	0.06	0.03	0.09	4.8	
Ant-XXVIII-5	s. off. spring 2012	19.04.2012	0.24	0.12	0.01	0.06	0.03	0.08	6.1	
Ant-XXVIII-5	s. off. spring 2012	20.04.2012	0.21	-	-	0.05	0.04	0.07	2.7	
Ant-XXVIII-5	s. off. spring 2012	21.04.2012	0.17	0.09	0.02	0.03	0.05	0.06	4.3	

Ant-XXVIII-5	s. off. spring 2012	22.04.2012	0.27	0.01	0.01	0.02	0.05	0.05	7.1
Ant-XXVIII-5	s. off. spring 2012	23.04.2012	0.19	-	-	0.14	0.04	0.03	6.2
Ant-XXVIII-5	s. off. spring 2012	24.04.2012	0.19	0.01	0.01	0.05	0.01	0.03	8.2
Ant-XXVIII-5	s. off. spring 2012	26.04.2012	0.31	0.01	0.00	-	0.01	0.08	11
Ant-XXVIII-5	s. off. spring 2012	27.04.2012	0.32	0.01	0.02	-	0.02	0.14	8.5
Ant-XXVIII-5	s. off. spring 2012	29.04.2012	0.29	-	-	0.53	0.04	0.15	6.4
Ant-XXVIII-5	s. off. spring 2012	30.04.2012	0.21	0.01	0.04	0.17	-	-	7.9
Ant-XXVIII-5	n. off. spring 2012	04.05.2012	0.17	0.01	0.02	0.03	0.11	0.22	9.0
Ant-XXVIII-5	n. off. spring 2012	05.05.2012	0.23	-	-	0.03	-	-	5.2
Ant-XXVIII-5	n. off. spring 2012	07.05.2012	0.19	-	-	0.07	0.42	0.13	3.6
Ant-XXVIII-5	n. off. spring 2012	08.05.2012	0.20	0.01	0.04	0.03	0.11	0.13	4.0
Ant-XXVIII-5	n. off. spring 2012	09.05.2012	0.28	0.01	0.04	0.33	0.05	0.17	8.4
Ant-XXVIII-5	n. off. spring 2012	10.05.2012	0.64	0.28	0.14	-	-	-	7.9
Bergen 2011	n. on. spring 2011	15.05.2011	0.50	0.44	0.07	0.08	1.15	0.60	4.83
Bergen 2011	n. on. spring 2011	16.05.2011	0.39	0.92	0.07	0.08	0.96	-	2.6
Bergen 2011	n. on. spring 2011	17.05.2011	0.48	0.86	0.06	0.07	1.06	-	2.43
Bergen 2011	n. on. spring 2011	18.05.2011	0.30	0.82	0.07	0.04	1.13	-	6.60
Bergen 2011	n. on. spring 2011	19.05.2011	0.09	0.89	0.01	0.11	1.64	-	7.25
Bergen 2011	n. on. spring 2011	20.05.2011	0.29	0.51	0.07	0.08	1.71	-	7.38
Bergen 2011	n. on. spring 2011	21.05.2011	0.28	0.90	0.07	0.07	1.72	-	9.25
Bergen 2011	n. on. spring 2011	23.05.2011	0.21	0.66	0.07	0.08	1.67	-	10.38
Bergen 2011	n. on. spring 2011	24.05.2011	0.21	0.71	0.03	0.12	1.45	-	9.63
Bergen 2011	n. on. spring 2011	25.05.2011	0.05	0.68	0.05	0.16	1.48	-	5.13
Bergen 2011	n. on. spring 2011	28.05.2011	0.21	0.71	0.05	0.25	1.26	-	5.38
Bergen 2011	n. on. spring 2011	29.05.2011	0.15	0.30	0.07	0.02	1.28	0.62	7.9
Bergen 2011	n. on. spring 2011	30.05.2011	0.15	0.14	0.04	0.08	1.28	-	7.86
Bergen 2011	n. on. spring 2011	02.06.2011	0.15	0.48	0.03	0.05	1.33	-	5.50
Bergen 2011	n. on. spring 2011	05.06.2011	0.26	0.79	0.06	0.04	1.15	-	3.63
ANT XXIX/10	s. off. spring 2014	15.03.2014	0.15	0.10	0.02	0.05	0.01	5.8E-02	6.8
ANT XXIX/10	s. off. spring 2014	16.03.2014	0.11	0.25	0.05	0.05	0.02	6.1E-02	5.2

ANT XXIX/10	s. off. spring 2014	17.03.2014	0.11	0.28	0.05	0.03	-	-	6.7
ANT XXIX/10	s. off. spring 2014	18.03.2014	0.16	0.10	0.02	0.02	0.04	0.11	7.2
ANT XXIX/10	s. off. spring 2014	30.03.2014	0.16	0.01	0.06	0.10	0.11	0.21	4
ANT XXIX/10	s. off. spring 2014	31.03.2014	0.19	0.01	0.02	0.05	0.24	0.56	5.4
ANT XXIX/10	s. off. spring 2014	04.04.2014	0.23	0.20	0.07	-	0.27	0.21	6.7
ANT XXIX/10	s. off. spring 2014	08.04.2014	0.24	0.01	0.02	0.01	-	-	4.8

^a n: north, s: south, on: onshore, off: offshore

^b Liquid Chromatography with Fluorescence Detection

^c LODs for chl-a were quite high (0.1 and 0.3 mg/L) in the first campaigns because low volumes of water were available for filtration

^d 24 h mean