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Supplement of

Development of coccolithophore-based transfer functions in the Western Mediterranean Sea: a sea surface salinity reconstruction for the last 15.5 kyr

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Surface sample codes, coordinates and environmental variables used in this study. Source: ^a Core Repository of the Institute of Marine Sciences- CSIC of Barcelona and ^b University of Vigo. *Potential outliers identified in MAT. **Potential outliers identified in WA-PLS. ***Potential outlier identified in both methods and deleted from the final training set. SD: Standard Deviation units.

<i>Sample name</i>	<i>Latitude</i>	<i>Longitude</i>	<i>Temperature</i>	<i>Salinity</i>	<i>Oxygen</i>	<i>Oxygen Saturation</i>	<i>Nitrate</i>	<i>Phosphate</i>	<i>Silicate</i>	<i>Chlorophyll a</i>	<i>Mixed Layer Depth (m)</i>	<i>Alkalinity</i>	<i>DIC</i>	<i>Carbonate</i>	<i>pH</i>
** ^a STR-93/TG1	36.05	-3.59	18.00	36.68	5.43	102.12	0.86	0.18	1.94	0.23	20.54	2387.79	2100.73	203.79	8.08
^a VALSIS/KF-16	41.25	3.53	17.35	38.00	5.39	99.63	0.99	0.14	1.25	0.10	67.75	2461.12	2123.75	236.82	8.16
*** ^a CO-81-2/TK-2	36.13	-1.93	18.38	36.89	5.43	102.58	0.63	0.15	1.43	0.24	18.06	2394.17	2106.20	204.51	8.08
^a MAYC96/MTL-1	36.47	-3.50	18.12	36.73	5.43	102.23	0.84	0.17	1.77	0.25	18.96	2394.37	2104.68	205.50	8.09
^a CO-80-4/K-25	38.60	2.68	19.02	37.38	5.30	101.53	0.71	0.12	1.36	0.10	23.50	2404.44	2089.33	221.84	8.12
^a CG-90-1/TG-5	36.39	-4.25	18.01	36.59	5.43	101.97	1.15	0.18	1.92	0.23	20.03	2384.06	2099.25	202.21	8.08
^a STR93/TG-11	36.07	-5.07	18.07	36.48	5.44	101.87	1.47	0.18	1.88	0.20	24.87	2362.56	2086.83	196.09	8.07
^a CO-81-1/K-87	41.06	3.31	17.65	37.93	5.39	100.09	0.90	0.14	1.16	0.08	59.14	2455.77	2119.76	235.90	8.16
^a GC-82-1/TR-137	41.01	1.34	18.06	37.88	5.46	101.60	0.65	0.13	0.96	0.08	49.47	2434.12	2106.28	230.40	8.14
^a CO-83-1/K-29	40.25	1.26	18.33	37.83	5.46	102.19	0.54	0.13	0.92	0.07	24.65	2430.14	2104.89	228.71	8.13
^a CO-83-1/K-10	40.18	1.29	18.38	37.81	5.45	102.22	0.52	0.12	0.93	0.07	24.20	2430.22	2105.25	228.55	8.13
^a CO-81-1/TK-10	40.31	1.81	18.27	37.83	5.45	101.90	0.59	0.13	0.92	0.07	28.18	2431.67	2105.10	229.55	8.14
^a GC-84-6/TR-552	41.64	3.14	17.11	38.06	5.40	99.37	1.06	0.14	1.30	0.12	95.04	2466.06	2125.53	238.94	8.17
^a GC-84-6/TR-598	41.75	3.14	17.09	38.07	5.40	99.29	1.06	0.14	1.30	0.12	102.11	2467.09	2126.26	239.14	8.17
^a GC-84-6/TR-606	41.68	3.29	17.10	38.07	5.40	99.31	1.06	0.14	1.30	0.12	94.84	2464.60	2125.61	237.91	8.16
^a MAYC96/CD-2	36.04	-5.17	18.09	36.47	5.44	101.86	1.51	0.18	1.87	0.19	25.95	2362.62	2086.53	196.34	8.07
^a VALSIS/KF-7	40.41	2.38	18.23	37.82	5.43	101.51	0.64	0.13	0.93	0.08	33.87	2440.68	2109.83	232.42	8.15
^a CO-80-4/K-16	38.07	2.07	19.02	37.28	5.30	101.54	0.79	0.13	1.38	0.10	21.98	2401.19	2087.80	220.73	8.11
^a CO-80-4/K-37	40.33	4.54	18.16	37.76	5.34	100.22	0.83	0.14	1.18	0.08	33.67	2435.78	2107.77	230.55	8.14
^a CO-80-4/K-39	40.33	3.44	18.20	37.78	5.38	100.78	0.74	0.13	1.02	0.09	35.21	2439.61	2109.90	231.66	8.14
^a CO-80-4/K-10	38.05	1.02	18.98	37.32	5.32	101.59	0.66	0.13	1.28	0.14	20.67	2416.08	2107.02	218.50	8.10
^a 80-CL/TK-33	39.63	0.00	18.74	37.77	5.43	103.01	0.31	0.10	0.95	0.11	19.21	2457.52	2140.54	224.69	8.11
^a CO-80-4/K-4	37.54	-0.24	18.88	37.18	5.34	101.71	0.75	0.14	1.19	0.22	18.98	2406.33	2116.37	206.09	8.08
^a CO-80-3/K-2	39.42	-0.02	18.77	37.76	5.42	103.00	0.30	0.10	0.96	0.12	19.51	2457.50	2140.65	224.61	8.11
^a CO-80-4/K-33	39.12	4.84	18.86	37.47	5.29	100.86	0.80	0.12	1.43	0.10	27.55	2413.89	2094.39	224.83	8.12
^a MAYC-96/MTL-2	36.53	-3.47	18.15	36.74	5.43	102.26	0.83	0.17	1.73	0.25	18.79	2394.52	2104.76	205.55	8.09
^a MAYC-96/MTL-18	36.58	-3.38	18.19	36.77	5.44	102.31	0.80	0.17	1.67	0.25	18.52	2393.95	2104.60	205.28	8.09
^a MAYC-96/ALM-22	36.66	-2.33	18.40	36.92	5.44	102.60	0.63	0.15	1.33	0.23	17.53	2393.81	2105.76	204.50	8.09
^a MAYC-96/ALM-19	36.59	-2.48	18.38	36.90	5.44	102.57	0.64	0.15	1.38	0.24	17.77	2393.57	2105.34	204.60	8.09
^a MAYC-96/GDR-4	36.18	-5.14	18.11	36.45	5.43	101.80	1.57	0.18	1.82	0.20	23.99	2355.11	2083.62	193.22	8.06
^a GC-93-1/TC-35	41.07	1.92	17.91	37.90	5.44	101.08	0.74	0.13	1.02	0.08	60.00	2451.20	2114.67	236.24	8.15

^a GC-88-1/TG-12	42.15	3.31	16.92	38.08	5.38	98.76	1.12	0.16	1.31	0.13	122.97	2476.84	2134.45	240.16	8.18
^a STR-93/TG-8	35.82	-5.05	18.02	36.51	5.44	101.94	1.39	0.18	1.95	0.19	27.49	2375.62	2092.22	201.31	8.07
^a E-3D-78/35418	38.95	3.01	18.96	37.45	5.31	101.52	0.67	0.11	1.31	0.10	24.62	2409.57	2091.13	224.07	8.12
^a GC-88-1/TR-70	42.297	3.32	16.84	38.09	5.37	98.56	1.14	0.17	1.31	0.13	131.71	2479.41	2136.42	240.55	8.18
^a 79KEB/K-30	40.41	0.79	18.30	37.84	5.47	102.25	0.53	0.13	0.92	0.09	25.04	2431.20	2106.21	228.59	8.13
^a 80-CL/TK-61	40.25	0.53	18.40	37.82	5.46	102.40	0.49	0.12	0.93	0.09	23.31	2437.43	2114.72	227.44	8.13
^a CL-83-1/K-104	41.18	2.15	17.72	37.93	5.43	100.62	0.82	0.14	1.09	0.08	71.08	2465.13	2121.42	241.06	8.17
^a E-30-78/35411	39.42	3.55	18.84	37.57	5.31	101.30	0.66	0.11	1.17	0.10	26.70	2418.06	2094.51	227.49	8.13
^a STR93/TG-13	36.07	-5.02	18.05	36.49	5.44	101.88	1.44	0.18	1.89	0.19	24.70	2363.71	2087.46	196.45	8.07
^a CO-80-4/K-30	38.97	3.95	18.96	37.42	5.30	101.16	0.76	0.11	1.40	0.10	26.36	2409.12	2091.32	223.66	8.12
^b CEUTA/MC-1	35.93	-5.12	18.06	36.49	5.44	101.90	1.46	0.18	1.90	0.19	26.93	2370.14	2089.70	199.30	8.07
^b CEUTA/MC-4	35.65	-4.82	17.93	36.55	5.44	101.94	1.27	0.19	2.01	0.18	27.10	2384.63	2097.02	204.16	8.08
^b CEUTA/MC-8	36.02	-4.87	18.00	36.52	5.44	101.90	1.36	0.18	1.94	0.19	24.65	2369.50	2090.18	198.53	8.07
^b CEUTA/MC-7	35.97	-4.91	18.01	36.52	5.44	101.91	1.37	0.18	1.94	0.19	25.44	2371.77	2090.92	199.57	8.07
^b CEUTA/BC-5	35.62	-5.15	18.22	36.35	5.42	101.53	1.84	0.18	1.65	0.23	29.13	2377.93	2093.30	202.14	8.08
^b CEUTA/MC-2	35.49	-4.45	17.88	36.59	5.44	101.94	1.13	0.19	2.05	0.17	25.43	2393.36	2101.73	206.89	8.09
^b CADIZ10/BC-4	35.74	-6.73	18.56	36.38	5.42	102.02	1.84	0.15	1.45	0.24	37.79	2345.81	2075.19	192.64	8.05
^b CADIZ10/MC-8	35.82	-6.97	18.60	36.37	5.41	101.98	1.86	0.14	1.37	0.26	37.65	2345.70	2074.96	192.71	8.05
^b CADIZ10/BC-2	35.80	-6.85	18.58	36.37	5.42	102.00	1.85	0.15	1.41	0.25	37.64	2346.11	2075.26	192.79	8.05
^b CADIZ10/MC-6	36.30	-6.76	18.42	36.27	5.41	101.43	2.11	0.16	1.40	0.28	26.86	2327.31	2068.49	184.64	8.04
^b CADIZ10/MC-1	35.65	-6.78	18.58	36.38	5.42	102.06	1.82	0.15	1.43	0.24	38.41	2343.37	2073.89	191.86	8.05
^b IODP/GC-2A	36.29	-7.81	18.53	36.34	5.41	101.79	1.89	0.13	1.18	0.34	27.47	2330.72	2068.12	187.13	8.05
^b IODP/WI-1B	37.34	-9.42	17.97	36.24	5.52	102.56	1.34	0.14	1.06	0.29	15.39	2316.03	2053.10	186.95	8.05
^b APL-SHACK4	35.57	-10.13	18.82	36.42	5.41	102.53	1.09	0.10	1.03	0.35	46.01	2348.30	2072.34	196.15	8.06
^a GC/09A/MC	36.81	-7.72	18.44	36.31	5.42	101.68	1.94	0.14	1.19	0.34	17.66	2330.07	2067.93	186.82	8.05
^a CO-83-2/K-16	41.07	3.79	17.60	37.93	5.38	99.84	0.93	0.14	1.20	0.09	56.35	2454.45	2119.62	235.12	8.16
^a CO-81-2/TR-62	35.55	-4.28	17.87	36.61	5.44	101.95	1.08	0.19	2.05	0.17	24.51	2393.20	2101.76	206.77	8.09
^a CO-80-4/K-28	38.88	4.11	18.98	37.38	5.29	101.14	0.79	0.12	1.47	0.10	26.44	2405.31	2089.60	222.27	8.12
^a CO-81-1/K-66	41.46	5.37	17.37	37.98	5.34	99.09	0.99	0.17	1.36	0.12	56.78	2454.40	2120.12	234.72	8.16
^a CO-81-1/K-4	40.19	1.55	18.37	37.81	5.45	102.08	0.55	0.12	0.94	0.07	25.34	2429.99	2104.48	228.86	8.13
^a CO-81-1/K-69	41.45	5.05	17.35	37.98	5.34	99.12	1.01	0.16	1.34	0.12	60.16	2455.54	2120.96	234.93	8.16
^a STR93/TG-21	35.68	-3.35	18.00	36.69	5.43	102.14	0.78	0.18	1.96	0.24	21.58	2394.04	2102.67	206.73	8.09
^a CO-80-4/K-23	38.46	2.49	19.02	37.36	5.31	101.55	0.71	0.12	1.36	0.10	23.04	2404.42	2089.34	221.82	8.12
^{**a} CO-83-2/K-28	41.90	4.50	17.09	38.05	5.36	98.86	1.07	0.17	1.33	0.15	98.41	2463.67	2126.90	236.40	8.16
^a GC-88-3/TG-15	36.16	-7.00	18.48	36.30	5.41	101.62	2.02	0.15	1.35	0.29	30.10	2330.96	2069.57	186.36	8.04
^a GC-83-2/TR-440	40.97	1.41	18.08	37.88	5.46	101.62	0.65	0.13	0.96	0.08	47.08	2433.87	2106.15	230.32	8.14
^a CO-81-1/K-61	41.69	5.57	17.29	38.00	5.33	98.96	0.99	0.18	1.39	0.13	62.83	2455.47	2120.88	234.93	8.16
^a CO-83-2/K-17	41.03	3.79	17.66	37.92	5.38	99.92	0.91	0.14	1.19	0.09	54.37	2452.74	2118.51	234.71	8.15
^a VALSIS/KF-2	39.37	0.69	18.77	37.73	5.41	102.85	0.34	0.11	0.98	0.11	20.05	2453.38	2135.94	224.83	8.11
^a VALSIS/KF-13	40.68	3.30	18.07	37.82	5.39	100.69	0.77	0.14	1.02	0.09	40.71	2441.76	2111.19	232.24	8.15
^a CO-83-2/K-8	40.66	3.11	18.10	37.82	5.40	100.85	0.74	0.14	0.99	0.09	39.93	2442.42	2111.33	232.59	8.15
^a CO-83-2/K-49	40.71	5.28	17.96	37.81	5.32	99.81	0.89	0.15	1.28	0.09	34.70	2435.54	2107.52	230.55	8.14
^a VALSIS/KF-5	40.16	2.48	18.36	37.78	5.41	101.56	0.62	0.13	0.96	0.09	30.51	2437.32	2107.61	231.65	8.14

^a CO-81-17/K-60	41.88	5.66	17.19	38.03	5.33	98.78	1.01	0.18	1.40	0.14	77.50	2459.55	2123.81	235.70	8.16
^a GC-93-1/TG3	41.17	2.33	17.69	37.94	5.42	100.51	0.84	0.14	1.10	0.08	71.13	2466.66	2122.22	241.55	8.17
^a CO-80-47K-34	40.22	4.41	18.24	37.74	5.33	100.35	0.81	0.14	1.17	0.09	32.82	2434.79	2107.14	230.30	8.14
^a E-3D-78/35388	39.00	4.78	18.90	37.43	5.29	100.94	0.81	0.12	1.48	0.10	27.35	2409.70	2092.05	223.58	8.12
^a CO-80-4/K-38	40.26	3.60	18.24	37.77	5.37	100.73	0.75	0.13	1.05	0.09	34.08	2438.72	2109.32	231.46	8.14
^a VALSIS/KF-17	41.28	4.33	17.39	37.98	5.37	99.39	1.00	0.15	1.29	0.11	60.38	2456.77	2121.75	235.23	8.16
^a GC-93-1/TC-38	40.99	2.06	17.97	37.88	5.44	101.15	0.72	0.13	1.00	0.08	54.67	2449.67	2114.00	235.66	8.15
^a CO-83-2/K-7	40.62	2.93	18.14	37.82	5.41	101.03	0.71	0.13	0.97	0.09	38.76	2442.42	2111.03	232.79	8.15
^a VALSIS/KF-12	41.03	2.24	17.88	37.90	5.43	100.90	0.77	0.14	1.04	0.08	59.87	2456.74	2117.48	238.07	8.16
^a CO-80-4/K-9	37.57	0.09	18.91	37.18	5.33	101.63	0.77	0.14	1.19	0.21	19.23	2412.23	2118.64	208.61	8.08
^a CO-83-2/K-6	40.55	2.78	18.17	37.82	5.42	101.19	0.69	0.13	0.95	0.09	37.16	2441.79	2110.51	232.71	8.15
^a CO-81-1/K-16	40.14	1.74	18.40	37.79	5.43	102.02	0.55	0.12	0.95	0.08	26.07	2430.21	2104.37	229.09	8.14
^a CO-81-1/K-74	40.88	4.18	17.86	37.85	5.36	100.01	0.88	0.14	1.18	0.09	44.80	2443.74	2112.95	232.41	8.15
^a VALSIS/KF-9	40.58	2.39	18.18	37.83	5.44	101.46	0.65	0.13	0.93	0.08	36.53	2441.39	2110.23	232.63	8.15
		Mean SD	0.53	0.64	0.05	1.11	0.42	0.02	0.33	0.07	24.10	41.43	17.96	17.08	0.04