

Table S2. Principal Component Analysis. Factor contribution to total variance and coordinates of for the variables *Chattonella subsalsa* cell concentration (CHATT) and water physical and chemical parameters in 5 locations of sampling series B (TEMP: water temperature; SAL: salinity; CHLA: chlorophyll a concentration; PO4: phosphate concentration; OP: organic phosphorus concentration; TP: total phosphorus concentration; AMMO: ammonium concentration; NO2: nitrite concentration; NO3: nitrate concentration; ON: organic nitrogen concentration; TN: total nitrogen concentration; SIO3: reactive silicate concentration; TRANS: water transparency).

Eigenvalues of correlation matrix, and related statistics				
	Eigenvalue	% Total - variance	Cumulative - Eigenvalue	Cumulative - %
1	7.9065	56.47555	7.90658	56.4755
2	1.9845	14.17530	9.89112	70.6509
3	1.0889	7.77812	10.98006	78.4290
4	0.8518	6.08479	11.83193	84.5138
5	0.6315	4.51134	12.46351	89.0251
6	0.5677	4.05559	13.03130	93.0807
7	0.3426	2.44753	13.37395	95.5282
8	0.1998	1.42728	13.57377	96.9555
9	0.1752	1.25143	13.74897	98.2069
10	0.1138	0.81308	13.86280	99.0200
11	0.1012	0.72332	13.96407	99.7433
12	0.0359	0.25668	14.00000	100.0000

Variable	Factor coordinates of the variables, based on correlations											
	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5	Factor 6	Factor 7	Factor 8	Factor 9	Factor 10	Factor 11	Factor 12
CHATT	-0.5305	0.1198	0.6321	0.0572	0.4995	0.0937	0.1838	0.0136	-0.0411	-0.0847	0.0163	0.0061
TEMP	-0.4746	0.5664	-0.3539	0.2790	0.1602	0.4264	-0.1098	-0.0164	-0.1611	0.0613	-0.0248	-0.0260
SAL	0.8302	0.1028	0.3744	-0.0686	-0.1496	-0.1608	0.0753	0.0761	-0.2609	0.1468	-0.0738	-0.0231
CHLA	-0.8844	0.0833	0.2713	0.1701	-0.1762	0.0160	-0.0398	-0.0314	0.1367	-0.0092	-0.2266	-0.0664
PO4	-0.8752	-0.2854	-0.0926	-0.2802	-0.0941	0.1379	0.0697	-0.0226	-0.1032	-0.0298	-0.1032	0.1003
OP	-0.8631	0.1251	0.3201	0.2379	-0.0858	-0.0395	-0.0940	-0.0174	0.1005	0.1915	0.1211	0.0312
TP	-0.9722	-0.1196	0.0969	-0.0615	-0.1012	0.0680	-0.0016	-0.0227	-0.0164	0.0741	-0.0064	0.0785
AMMO	-0.8613	-0.3042	-0.0648	-0.2733	-0.1067	0.1517	0.1915	0.0216	-0.0149	0.0389	0.0756	-0.0879
NO2	-0.0338	-0.8441	-0.1258	0.4223	0.1184	0.0382	-0.0046	0.2739	-0.0046	0.0266	-0.0310	0.0057
NO3	0.4315	-0.7941	0.1372	0.1897	0.0517	0.0881	-0.1092	-0.3142	-0.0823	0.0104	0.0064	-0.0210
ON	-0.8598	0.0839	0.1363	0.1228	-0.1387	-0.2369	-0.3037	0.0508	-0.1543	-0.1533	0.0507	-0.0022
TN	-0.9488	-0.2129	0.0068	-0.1423	-0.1285	0.0208	0.0197	0.0330	-0.0718	-0.0304	0.0741	-0.0649
SIO3	-0.6791	-0.1141	-0.2476	-0.3169	0.4606	-0.3292	-0.1665	-0.0208	-0.0006	0.1064	-0.0590	-0.0249
TRANS	0.6655	-0.1394	0.3333	-0.4166	0.0241	0.3588	-0.3269	0.1140	0.0616	0.0103	0.0012	-0.0068