

Table S1 Statistical information of canonical correspondence analysis on phytoplankton assemblages.

	F1	F2	F3	F4
Eigenvalue	0.01	0.00	0.00	0.00
Constrained inertia (%)	60.16	36.42	2.92	0.51
Cumulative %	60.16	96.58	99.49	100.00

Table S2 Statistical information of canonical correspondence analysis on dinoflagellate cyst assemblages.

	F1	F2	F3	F4
Eigenvalue	0.04	0.02	0.01	0.00
Constrained inertia (%)	57.17	24.14	13.42	5.27
Cumulative %	57.17	81.31	94.73	100.00

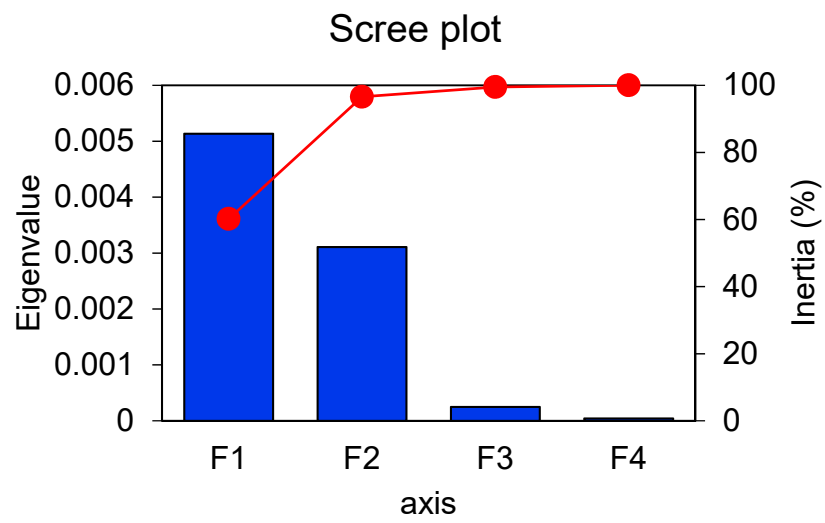


Figure S1 Scree plot from canonical correspondence analysis on phytoplankton assemblages.

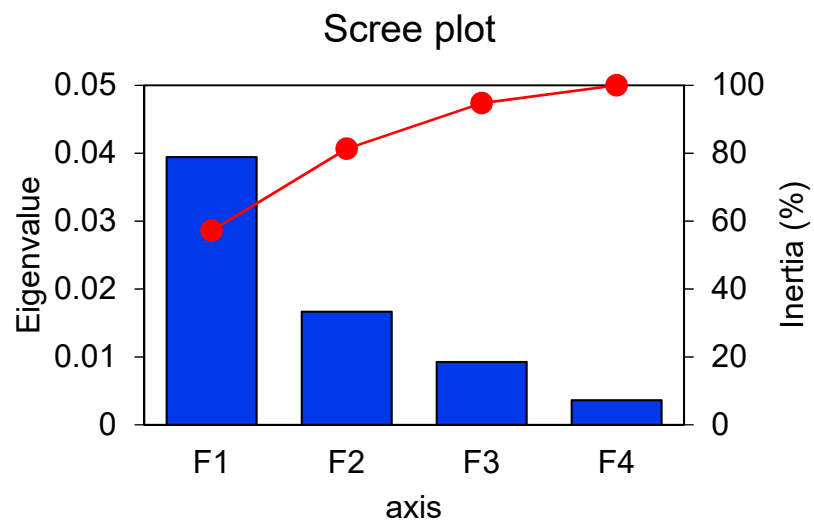


Figure S2 Scree plot from canonical correspondence analysis on dinoflagellate cyst assemblages.

Table S3 Environmental variables of the surface sediments in Tongyeong Sanyang-eup in May and September 2006 (mean $\pm$ standard deviation).

Parameters	May	September
Ignition loss (IL, %)	7.48 $\pm$ 0.41	6.88 $\pm$ 0.24
Acid volatile sulfide (mg S/g dry)	0.14 $\pm$ 0.07	0.06 $\pm$ 0.02
Chemical oxygen demand (COD, mg O ₂ /g dry)	21.16 $\pm$ 1.97	21.97 $\pm$ 1.96
Water content (%)	51.27 $\pm$ 4.29	48.47 $\pm$ 4.26
COD/IL	2.83 $\pm$ 0.23	3.19 $\pm$ 0.28