

## Supplementary Table

Table S1. The coordinate information on sampling sites of black rockfish

Areas	Longitude	Latitude
Reef area 1	121.4530	36.7020
	121.4560	36.7020
	121.4590	36.7020
Reef area 2	121.4520	36.6860
	121.4580	36.6860
	121.4660	36.6860
Control area	121.4530	36.6700
	121.4590	36.6700
	121.4660	36.6700

Table S2. The coordinate information on zooplankton sampling sites

Seasons	Areas	Site number	Longitude	Latitude
Spring	Reef area 1	1	121.4520	36.7040
		2	121.4550	36.7040
		3	121.4580	36.7040
	Reef area 2	4	121.4530	36.6880
		5	121.4580	36.6870
		6	121.4650	36.6880
	Offshore area	7	121.4500	36.6700
		8	121.4590	36.6700
		9	121.4670	36.6700
	Inshore area	10	121.4660	36.6610
		11	121.4030	36.7290
		12	121.4130	36.7230
		13	121.4330	36.7340
		14	121.4560	36.7340
		15	121.4928	36.7535
Summer	Reef area 1	1	121.4526	36.7019
		2	121.4555	36.7019
		3	121.4586	36.7018
	Reef area 2	4	121.4530	36.6848
		5	121.4584	36.6848
		6	121.4645	36.6848
	Offshore area	7	121.4395	36.6703
		8	121.4588	36.6700
		9	121.4812	36.6721
	Inshore area	10	121.4530	36.6618
		11	121.3921	36.7338
		12	121.4416	36.7413

		13	121.4793	36.7555
Autumn	Reef area 1	1	121.4579	36.7032
		2	121.4631	36.7024
		3	121.4607	36.6994
	Reef area 2	4	121.4576	36.6844
		5	121.4643	36.6858
		6	121.4634	36.6819
		7	121.4566	36.6894
	Offshore area	8	121.4593	36.6743
		9	121.4583	36.6719
		10	121.4576	36.6638
	Inshore area	11	121.4506	36.7346
		12	121.4190	36.7388
		13	121.4720	36.7519
Winter	Reef area 1	1	121.4545	36.7045
		2	121.4555	36.7018
		3	121.4561	36.6998
	Reef area 2	4	121.4583	36.6894
		5	121.4590	36.6853
		6	121.4591	36.6820
	Offshore area	7	121.4411	36.6667
		8	121.4468	36.6648
		9	121.4572	36.6608
		10	121.4692	36.6657
	Inshore area	11	121.4095	36.7341
		12	121.4338	36.7432
		13	121.4693	36.7426
		14	121.4633	36.7511