

Table 1: Mean ($\pm$ standard deviation) values of physico-chemical parameters measured in the lean and peak seasons of both fisheries in the year 2013

Physico-chemical parameters	Sites/seasons			
	Teshie lean	Teshie peak	Tema lean	Tema peak
Salinity (ppt)	34.14 $\pm$ 0.85	28.97 $\pm$ 0.65	29.68 $\pm$ 1.57	32.82 $\pm$ 4.30
Temperature ($^{\circ}$ C)	28.03 $\pm$ 0.57	26.14 $\pm$ 2.03	26.73 $\pm$ 1.72	23.14 $\pm$ 1.26
Pressure (dbars)	7.63 $\pm$ 1.60	6.07 $\pm$ 1.65	83.90 $\pm$ 52.75	53.34 $\pm$ 5.04
Total alkalinity (μ mol/kg)	1423.72 $\pm$ 600.50	1182.27 $\pm$ 72.11	2897.39 $\pm$ 282.59	1655.17 $\pm$ 570.42
pH	8.30 $\pm$ 0.21	8.33 $\pm$ 0.19	7.63 $\pm$ 0.65	7.29 $\pm$ 0.16
DIC (μ mol/kg)	1001.94 $\pm$ 484.11	895.93 $\pm$ 58.14	2915.25 $\pm$ 575.31	1663.52 $\pm$ 572.42
pCO ₂ (μ atm)	72.44 $\pm$ 30.56	98.00 $\pm$ 48.27	511.69 $\pm$ 526.42	1966.93 $\pm$ 786.44
Aragonite saturation	4.43 $\pm$ 1.72	2.60 $\pm$ 0.94	1.59 $\pm$ 1.10	0.51 $\pm$ 0.26
Calcite saturation	6.67 $\pm$ 2.60	3.99 $\pm$ 1.43	2.44 $\pm$ 1.69	0.78 $\pm$ 0.40
Carbonate (μ mol/kg)	333.52 $\pm$ 18.73	157.48 $\pm$ 55.93	133.07 $\pm$ 38.00	31.95 $\pm$ 16.17
Revelle factor	7.23 $\pm$ 2.41	6.78 $\pm$ 0.94	10.77 $\pm$ 3.00	15.67 $\pm$ 1.15
Nitrates (mg/l)	0.98 $\pm$ 0.13	0.88 $\pm$ 0.25	1.17 $\pm$ 0.41	3.40 $\pm$ 2.59
Phosphates (mg/l)	2.23 $\pm$ 2.21	0.08 $\pm$ 0.03	0.28 $\pm$ 0.24	2.12 $\pm$ 2.01
Sulphates (mg/l)	2050.00 $\pm$ 176.78	5450.0 $\pm$ 353.55	5400.00 $\pm$ 0.00	6062.50 $\pm$ 515.39
Silicates (mg/l)	9.73 $\pm$ 8.03	2.23 $\pm$ 1.96	4.90 $\pm$ 0.64	22.78 $\pm$ 19.23
Iron (mg/l)	0.12 $\pm$ 0.08	0.11 $\pm$ 0.00	0.20 $\pm$ 0.07	0.23 $\pm$ 0.12
Calcium (mg/l)	143.00 $\pm$ 6.61	139.67 $\pm$ 3.62	134.17 $\pm$ 5.80	388.75 $\pm$ 29.55
Magnesium (mg/l)	1400.00 $\pm$ 141.42	2500.00 $\pm$ 100	2075.00 $\pm$ 106.07	2233.33 $\pm$ 152.75