

APPENDIX

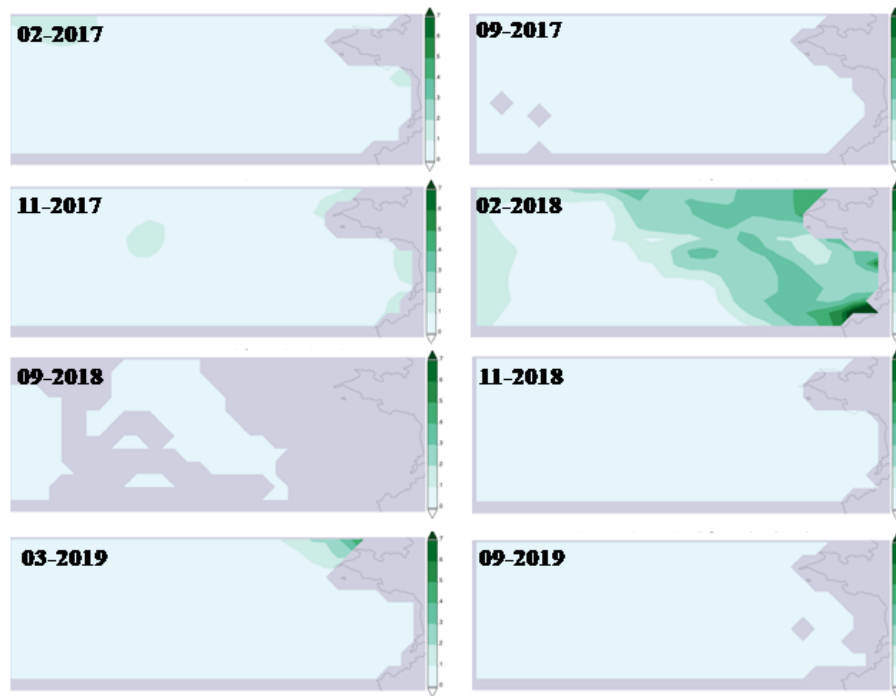


Fig. S1. 8-daily averaged map of chlorophyll a concentration corresponding to samplings. Data from MODIS-Aqua in mg/m^3 units over region 85.80°W , 11.00°N ; 87.00°W , 10.50°N

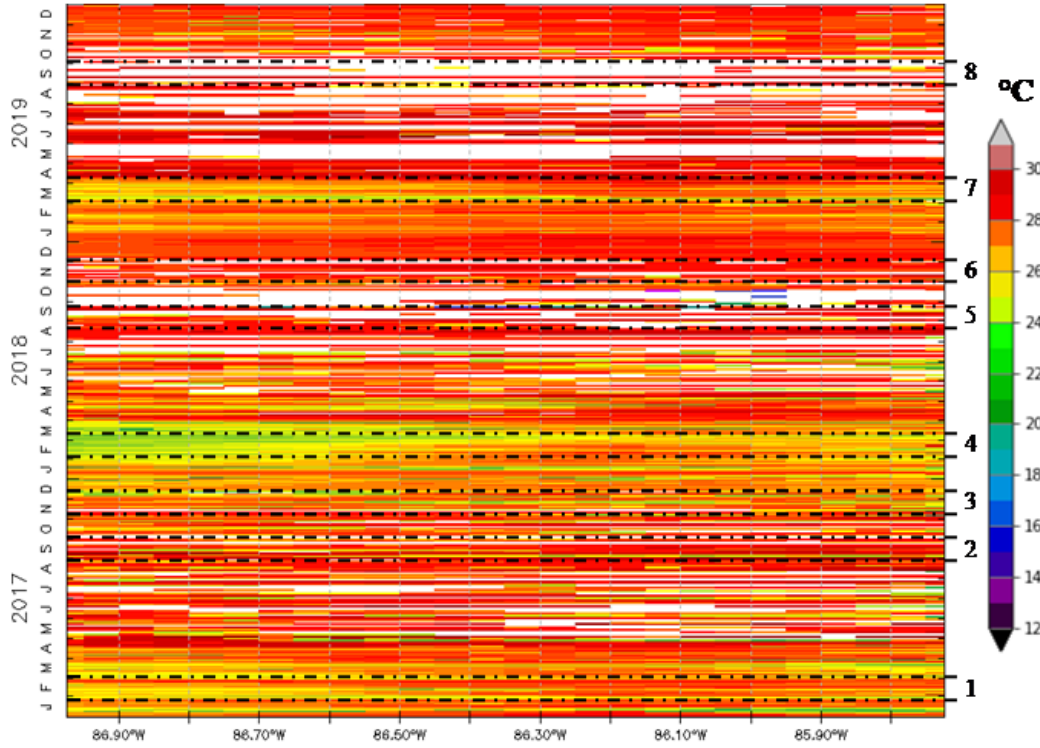


Fig. S2. Hovmöller diagram of Sea Surface Temperature (°C) in longitude (85.80°W-87.00°W) over time (2017-2019). Right axis indicates the chronological order of campaigns. Data retrieved from: JPL OurOcean Project.2010.GHRSSST Level 4 G1SST Global Foundation Sea Surface Temperature Analysis.

TABLE S1

Eq. 1 numerical values and terms.

harmonics	Amplitude (a) in °C	Period (T) in months	Phase () in rad
(0)	28.0799	-	-
First (1)	0.8605	12	0.2680
Second (2)	0.4357	4	-2.0218

TABLE S2

Eq. 2 numerical values and terms.

harmonics	Amplitude (a) in mg/m ³	Period (T) in months	Phase () in rad
(0)	2.9768	-	-
First (1)	0.3589	12	-2.2800
Second (2)	0.1604	18	2.8922
Third (3)	0.1452	15	-2.7190