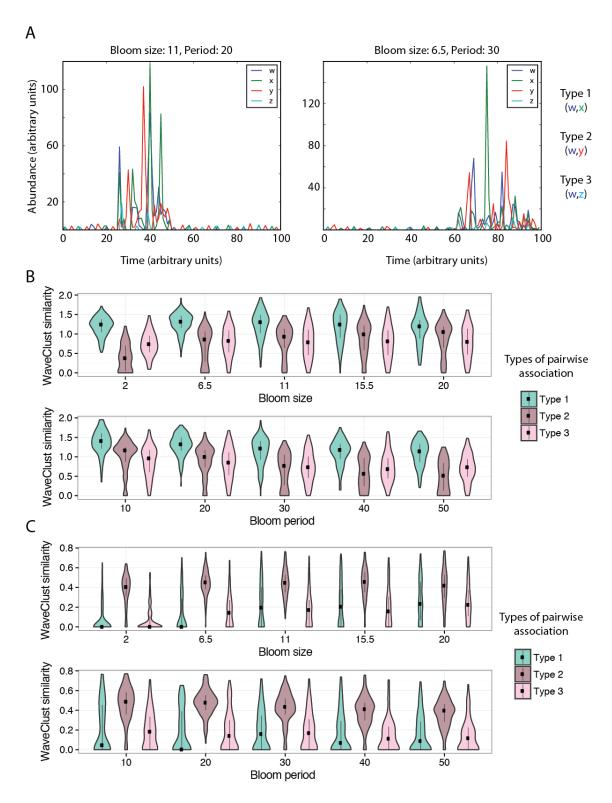


(correlation or anti-correlation) at one or more periods (3 day, 15 day, or 45 day) with the addition of random noise to each series (signal-to-noise ratio: 1). In panel (A) the blue and green series are correlated at both high and low frequency (high frequency at 3 day period, low frequency at 15 day period in "Group A" and 45 day period in "Group B"). Both blue and green are correlated with the red series at low frequency, but anti-correlated at high frequency. Thus, the pairs (blue, green) and (blue/green, red) share "emergent" periods at low frequency, but have different high frequency interactions. The teal time series is correlated at high frequency with blue and green, but shares no low frequency correlation. In panel (B) we calculate the pairwise Pearson correlation for all series in both Group A and Group B. While this correlation separates the two groups,

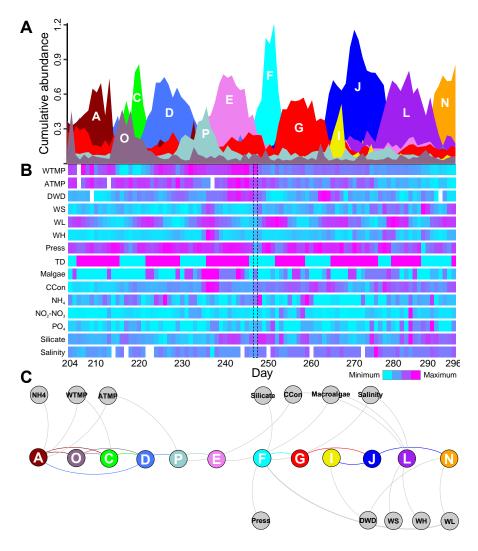
it has the undesirable effect of grouping the teal series with blue and green, and it finds no relationship between blue or green and red. In panel (C), WaveClust(+/+) is

Supplementary Fig. 1 | WaveClust performance with simulated coupled dynamics. We simulated time series with noisy coupled dynamics, consisting of perfect coupling



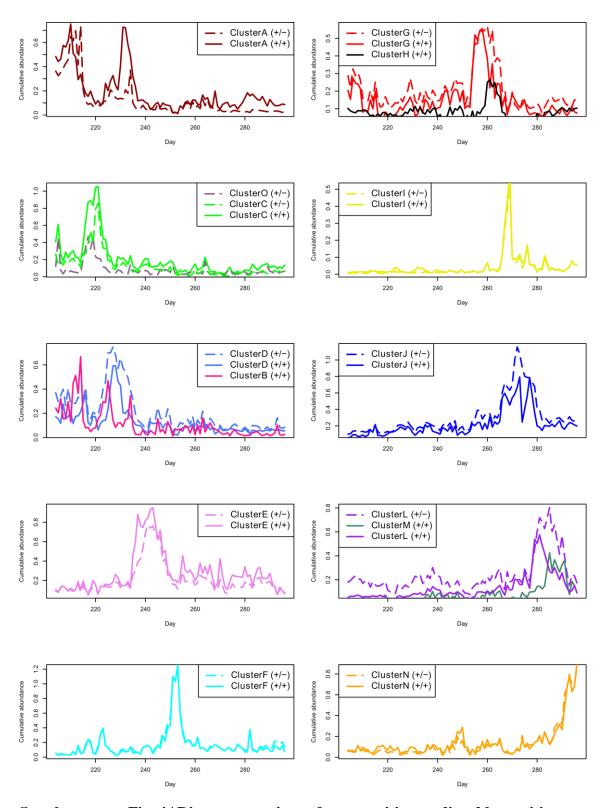
Supplementary Fig. 2 | **Sensitivity analysis of WaveClust similarity with simulated data.** Time series were simulated to capture patterns of blooms (occurring at low frequency and higher abundance) in the midst of basal fluctuations (occurring at high frequency and lower abundance) with the addition of random noise. Pairs of OTUs with a Type 1 association are correlated at both low and high frequency. Type 2 associations are correlated low frequency, and anti-correlated at high frequency. Type 3 associations are correlated at high frequency, and uncorrelated at low frequency. (A) Representative

time series with different bloom size and period (left and right panels). (**B and C**) Violin plots of WaveClust similarity scores (Y axis) between pairs of simulated OTUs with Type 1, 2, or 3 associations, with varying bloom size and period (X axis). Similarity scores are calculated using positive correlation at low frequency, and either positive (**B**) or negative (**C**) correlation at low frequency. Type 1 associations are more easily detected in (**B**), while Type 2 associations are more easily detected in (**C**).

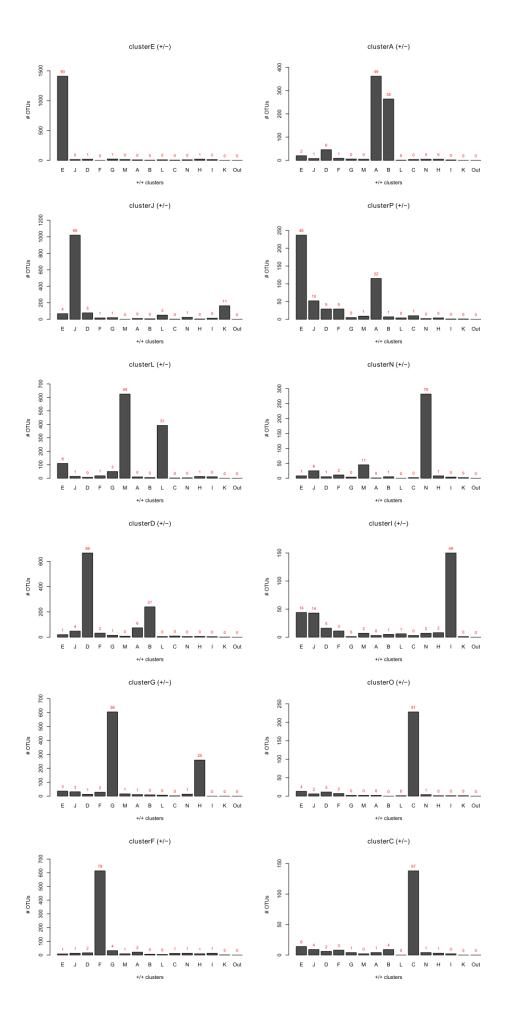


Supplementary Fig. 3 | Dynamics of predicted communities and metadata across the time series. (A) Communities predicted by WaveClust analysis as modular units (clusters) of interacting OTUs based on wavelet decomposition to determine correlations at different temporal frequencies followed by clustering (Materials and Methods). Shown are the results from positive correlation at low and negative correlation at high frequency. (B) Heat map displaying change in physical, biological and chemical environmental parameters over the time series. Color scale for each environmental parameter varies between maximum and minimum values, which are for each parameter: WWTMP: 20-10 °C; ATMP: 30-10 °C; DWD: 14-4 s, WS: 14-4 m/s; WL: 4.5-1.5 m; WH: 3-0.5 m; Press: 1020-995 hPa; TD: 1-0 incoming/outgoing; Malgae: 4-0 relative concentration; CCon: 10-4 μg/L; NH₄: 1.4-0 μM; NO₂-NO₃: 20-0 μM; PO₄: 0.7-0 μM; Silicate: 10-2 μM; Salinity: 36-33 psu. For more details see Supplementary Data 7 where values for each day are listed. Day 247, which marks hurricane Earl passage, is framed in the heat map. (C) Granger causalities linking predicted communities to each other and to environmental parameters. Nodes represent communities (colored according to panel A) and environmental parameters (grey). Legends for B and C: WTMP, water temperature; ATMP, air temperature; DWD, dominant wave period; WS, wind speed; WL, water level; WH, wave height; Press,

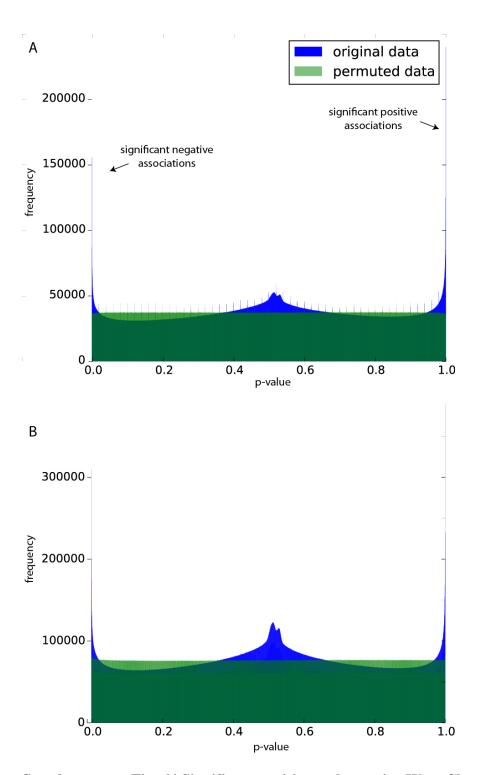
pressure; TD, tidal direction; Malgae, macroalgae; CCon, Chlorophyll concentration; NH_4 , ammonium; NO_2 - NO_3 , nitrite and nitrates; PO_4 , phosphate.



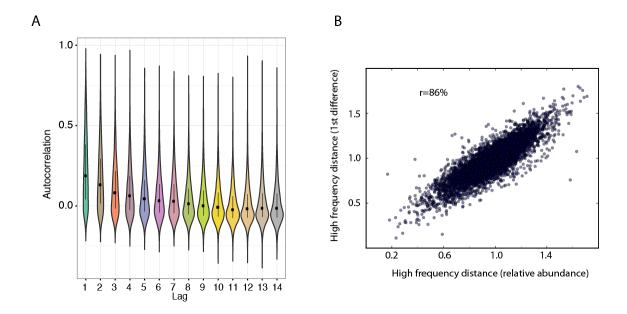
Supplementary Fig. 4 | Direct comparison of communities predicted by positive correlations at low frequency with either positive (solid line) or negative (dashed line) interactions at high frequency. Although there is generally high agreement between +/+ and +/- correlations, some exceptions emerge. For example, cluster C (+/+) approximately splits in two clusters, C and O, when considering +/- correlations. Similarly, cluster D and L in +/- correlations approximately split in two clusters (D and B, and L and M, respectively) when considering +/+ correlations. Color-coding according to communities shown in Fig. 2.



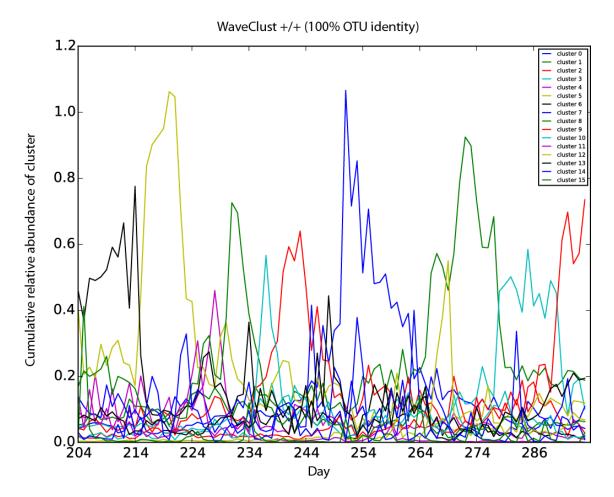
Supplementary Figure 5 | **Number of OTUs shared among clusters defined by negative and positive high frequency interactions.** For each cluster defined by negative high frequency interactions, shown is the percentage overlap in OTUs with each of the clusters defined by positive high frequency interaction (\frac{\piintersecting oTUs}{\tautotal oTUs \text{ in cluster}}). Assigning similar clusters with more than a 65% overlap, we found that 6 out of 12 negative interaction clusters were also directly found among the positive interaction clusters, while the remaining 6 were mainly split in two of the positive clusters (both summing up more than this 65% overlap).



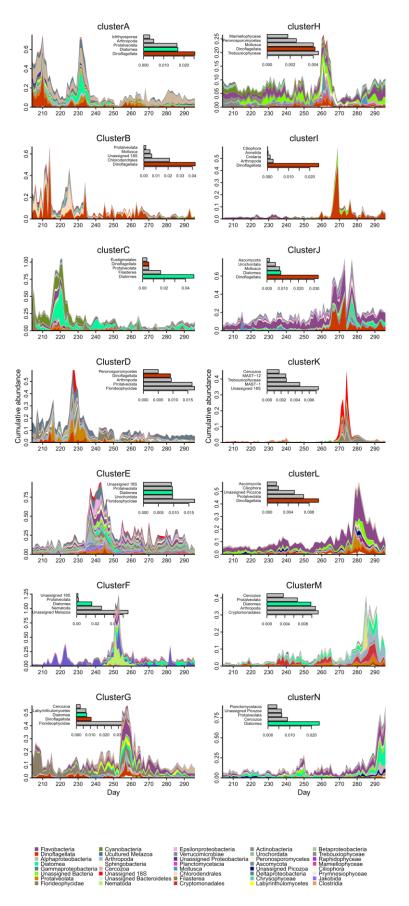
Supplementary Fig. 6 | **Significant positive and negative WaveClust associations identified by permutation analysis.** Permuted time series were used to calculate empirical p-values in (**A**) distributional OTU time series (original data) and (**B**) non-distributional (100% sequence identity) time series. Green histograms depict the distribution of p-values found in randomly shuffled data. Blue histograms depict the distribution of p-values in real data. Real data are enriched for significant positive (p-values close to 1) and negative associations (p-values close to 0) at a similar frequency in (**A**) and (**B**).



Supplementary Fig. 7 | **Autocorrelation has little effect on WaveClust similarity.**(A) Autocorrelation levels (Y axis) were calculated for each time series at a lag of 1 to 14 days (X axis). Violin plots depict the distribution of autocorrelation values at each time lag (dots represent median; bars represent interquartile range). Autocorrelation at a 1-day lag was removed by calculating the 1st difference for each time series. (B) High-frequency similarity scores calculated from the original data (X axis) are highly correlated (86% Pearson correlation) with high-frequency similarity scores calculated

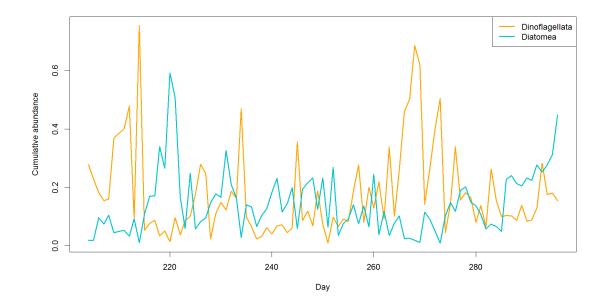


Supplementary Fig. 8 | **WaveClust clustering of non-distributional OTUs collapsed at 100% sequence identity.** OTUs were defined at 100% sequence identity to create an alternative dataset to distributional OTUs. Plot depicts cumulative abundance time series of non-distributional OTU clusters found by WaveClust. WaveClust scores were generated using positive correlations at high- and low-frequency (similar results were obtained with negative correlations at high-frequency; data not shown). Permutation analysis was used to keep only those scores passing a false discovery rate of 10%. The number of clusters, timing of cluster peaks, and sharp transitions are similar to results found with distributional OTUs.

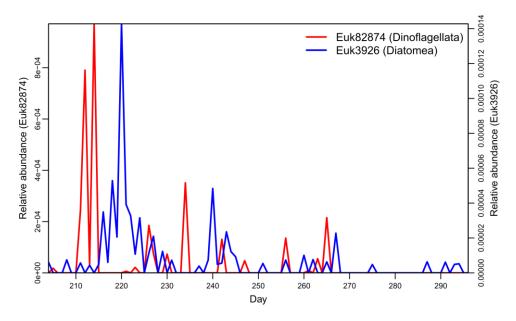


Supplementary Fig. 9 | Taxonomic groups with highest relative frequencies in the most abundant communities. Inset bargraphs show the average relative abundance of

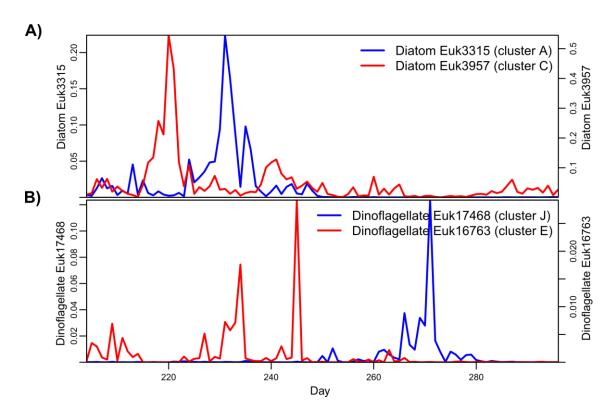
the 5 most prevalent eukaryotic groups highlighting alternating dominance of dinoflagellates (orange-red) and diatoms (spring-green) as primary producers. Legends for class-level taxa are ordered from most to least abundant for the 40 most overall abundant classes (the remaining low abundant classes are omitted in the legend).



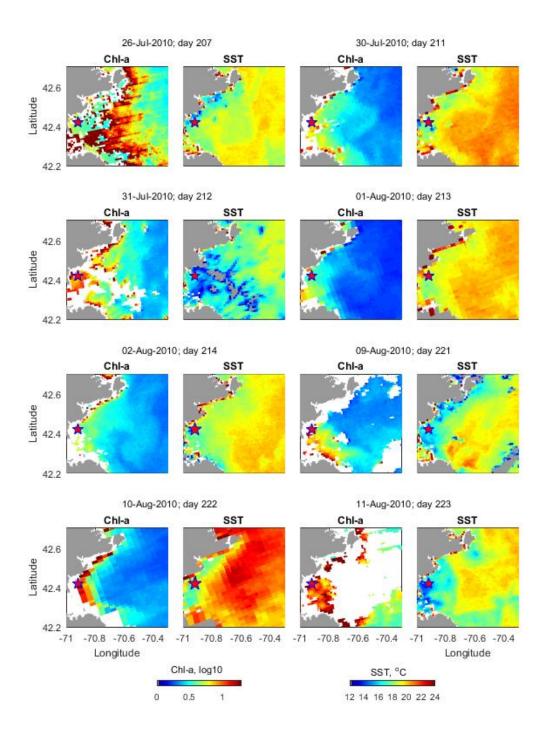
Supplementary Fig. 10 | Alternating dominance of diatoms and dinoflagellates in the time series. Changes in relative abundance are shown for Diatomea and Dinoflagellata, i.e. the sum of all diatom and dinoflagellate OTUs, respectively.

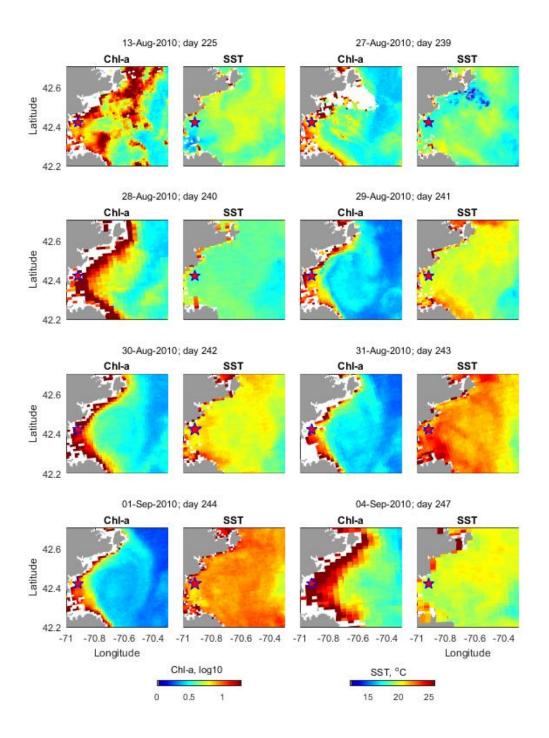


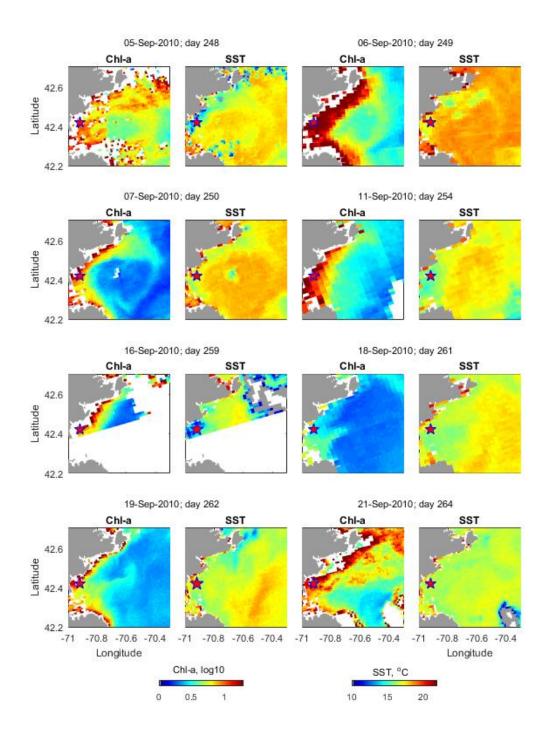
Supplementary Fig. 11 | Example of taxonomically highly resolved alternating shifts in dominance among dinoflagellate and diatom. Shown are changes in relative abundance among one diatom and one dinoflagellate OTU.

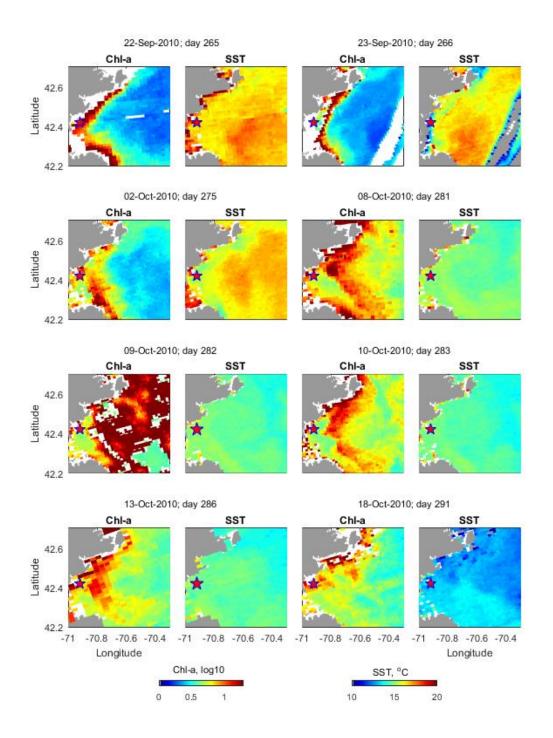


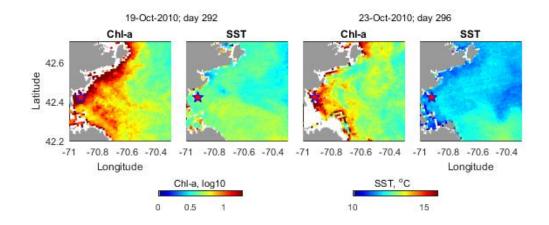
Supplementary Fig. 12 | Different diatom and dinoflagellate OTUs peak in different communities. Example of daily dynamics of some diatoms (A) and dinoflagellate (B) OTUs, each reaching highest relative abundance within different community clusters.



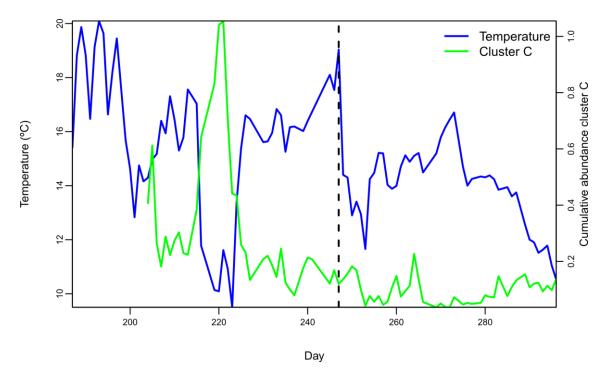




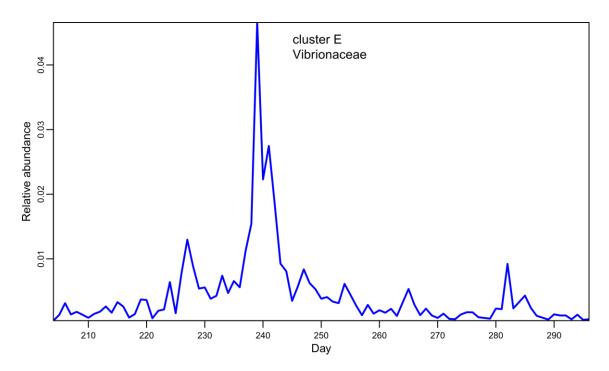




Supplementary Fig. 13 | **Time-series of chlorophyll** *a* (**Chl-a**) and sea surface **temperature** (**SST**). Data are from MODIS-A satellite imagery for the period 26 July to 23 October 2010. Only relatively cloud-free scenes are shown. Compare to Supplementary Fig. 4 for comparison of temporal dynamics of communities.

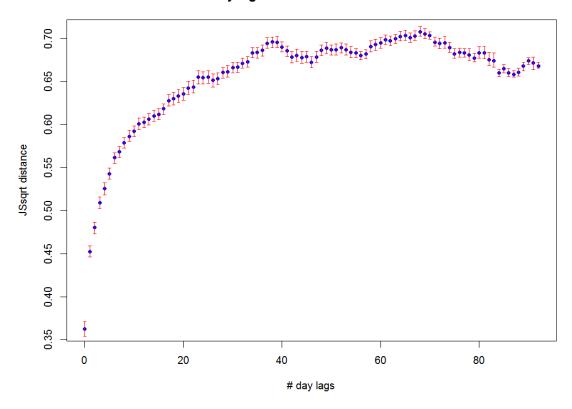


Supplementary Fig. 14 | **Dynamics of community cluster C and temperature variation.** Cluster C defined by positive correlations at low and high frequencies shows its highest expansion during cold water intrusion and consideration of temperature values preceding the time series sampling suggests that the slight peak at the beginning of the time series might have happened during another cold water period not captured by the biological sampling in this time series. Vertical dashed line highlights day 247, marking the passage of hurricane Earl.



Supplementary Fig. 15 | **Vibrionaceae bloom in community E.** The bloom occurred during a period characterized by warm water and abundant macroalgal detritus. See Fig. 2 for details on community dynamics.

Means by lags with 95% confidence intervals



Supplementary Fig. 16 | Jensen-Shannon square root distance between samples for different time-lags. Replicates (lag 0) are most closely related.

Supplementary Table 1. Clusters estimated by WaveClust and associated numbers of OTUs.

Wav	eClust
+/+ (Fig. 2)	+/- (Fig. S3)
622	737
560	ND
417	203
913	1133
1988	1556
784	771
767	1031
341	ND
216	305
1284	1478
171	ND
481	1260
743	ND
373	402
ND	279
ND	505
	+/+ (Fig. 2) 622 560 417 913 1988 784 767 341 216 1284 171 481 743 373 ND

ND = cluster not detected.

Supplementary Table 2. Sample-specific barcode sequences.

Barcode ID Barcode sequence 96-well position	n
001 TCCGTGCGC A1	
002 TGTTTCCCA A2	
003 GGTAATGAA A3	
004 GAAACTGGG A4	
005 ACGGGCTGA A5	
006 ATGAAGTAT A6	
007 ACTTATTGT A7	
008 GGCGGGAAA A8	
009 ACACCTCGG A9	
010 CTCATTGGG A10	
011 GCTGCCGCG A11	
012 CGATGGTGT A12	
013 TCAAAGCTG B1	
014 CAGCGGCAT B2	
015 CCGACAAAT B3	
016 TAAGGGAGA B4	
019 AATGTCAAG B7	
020 GTTCGCAGG B8	
021 TATCAATCT B9	
022 GTCTAACGC B10	
023 TTACTATAC B11	
024 TGCACCCGT B12	
025 TGGGACCTC C1	
026 GAGTTTGAT C2	
O27 AACAGTATT C3	
028 ATCGCACCA C4	
029 CTAGAATCT C5	
030 CGCCAAGGG C6	
O31 AGTATGCAG C7	
O32 CCTTTGATA C8	
033 TTTAACTGA C9	
034 CTTGCTTGG C10	
035 TCGGCTCGG C11	
036 CAAGCCTGC C12	
037 ATAGGTGGA D1	
038 CAACTTCAT D2	
039 GTAGTCGAG D3	
040 TCCCGATGA D4	
041 GGGCGAAAT D5	
042 GCGTAGGAT D6	
043 GGCCTCGCC D7	
044 GGTGTACCA D8	
045 CCCAGGCAG D9	
046 GTCACGGGA D10	
047 AATACAGGT D11	
048 TATTCTGTA D12	
049 CGTCCCACC E1	
050 CTGTTAGTC E2	
051 CACTCACTA E3	

052	ACCTCCCAT	E4
053	GAGCACAGG	E5
054	CGGAGTGCT	E6
055	GCAAGATAC	E7
056	CGAATATTC	E8
057	AAGGAACGT	E9
058	GATTGAAGT	E10
059	TGATAATAT	E11
060	CCACGCAAG	E12
061	TACGATACT	F1
062	AGGCTTCAT	F2
063	GTGCTGATC	F3
064	ACCATACTA	F4
065	AAATTGGAC	F5
066	TAGAGCCAA	F6
067	TTATCCTTG	F7
068	TTCCAGATG	F8
069	CACAACGAA	F9
070	AACCCGTTG	F10
071	CTACCGATG	F11
072	GTGGATAGC	F12
073	GCCTGTTCC	G1
074	AGCTGACGG	G2
075	AGAGAGGCT	G3
076	GCAATGGAT	G4
077	TGACTTAGC	G5
078	AAACAAGAT	G6
079	CTTCAGCTG	G7
080	GGAGGCTGT	G8
081	ACAAACTAC	G 9
082	GACATCATA	G10
083	AGTCACCCG	G11
084	TCTAGTCGT	G12
085	CCGCACCGA	H1
086	ATGCCAGCA	H2
087	TCGAACACA	H3
088	CGACATTCA	H4
089	CATCGCTAG	Н5
090	AAATCATTA	Н6
091	TCTGTATGT	H7
092	ACTAAGATA	Н8
093	CCCGTTTCA	H9
094	GTACGTTGC	H10
095	AGTAGATGA	H11
096	TCATTAAGG	H12

Supplementary Table 3. Sequencing platform used for each sample.

Sample	rRNA	Sequencing platform
	gene	
	sequenced	
10N.204.37	16S	Illumina MiSeq
10N.204.38	16S	Illumina MiSeq
10N.204.39	16S	Illumina MiSeq
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10N.205.38	16S	Illumina MiSeq
10N.205.39	16S	Illumina MiSeq
10N.206.37	16S	Illumina MiSeq
10N.206.38	16S	Illumina MiSeq
10N.206.39	16S	Illumina MiSeq
10N.207.37	16S	Illumina MiSeq
10N.207.38	16S	Illumina MiSeq
10N.207.39	16S	Illumina MiSeq
10N.208.37	16S	Illumina MiSeq
10N.208.38	16S	Illumina MiSeq
10N.208.39	16S	Illumina MiSeq
10N.209.37	16S	Illumina MiSeq
10N.209.38	16S	Illumina MiSeq
10N.209.39	16S	Illumina MiSeq
10N.210.37	16S	Illumina MiSeq
10N.210.38	16S	Illumina MiSeq
10N.210.39	16S	Illumina MiSeq
10N.211.37	16S	Illumina MiSeq
10N.211.38	16S	Illumina MiSeq
10N.211.39	16S	Illumina MiSeq
10N.212.37	16S	Illumina MiSeq
10N.212.38	16S	Illumina MiSeq
10N.212.39	16S	Illumina MiSeq
10N.213.37	16S	Illumina MiSeq
10N.213.38	16S	Illumina MiSeq
10N.213.39	16S	Illumina MiSeq
10N.214.37	16S	Illumina MiSeq
10N.214.38	16S	Illumina MiSeq
10N.214.39	16S	Illumina MiSeq
10N.215.37	16S	Illumina MiSeq
10N.215.38	16S	Illumina MiSeq
10N.215.39	16S	Illumina MiSeq
10N.216.37	16S	Illumina MiSeq
10N.216.38	16S	Illumina MiSeq
10N.216.39	16S	Illumina MiSeq
10N.217.37	16S	Illumina MiSeq
10N.217.38	16S	Illumina MiSeq
10N.217.39	16S	Illumina MiSeq
10N.218.37	16S	Illumina MiSeq
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10N.221.37	16S	Illumina MiSeq
10N.221.38	16S	Illumina MiSeq
10N.221.39	16S	Illumina MiSeq
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10N.251.38	16S	Illumina HiSeq 1000
10N.251.39	16S	Illumina HiSeq 1000
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10N.254.37	16S	Illumina HiSeq 1000
10N.254.38	16S	Illumina HiSeq 1000
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10N.262.37	16S	Illumina HiSeq 1000
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10N.263.37	16S	Illumina HiSeq 1000
10N.263.38	16S	Illumina HiSeq 1000
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10N.264.38	16S	Illumina HiSeq 1000
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10N.265.38	16S	Illumina HiSeq 1000
10N.265.39	16S	Illumina HiSeq 1000
10N.266.37	16S	Illumina HiSeq 1000
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10N.266.38	16S	Illumina HiSeq 1000
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10N.267.38	16S	Illumina HiSeq 1000
10N.267.39	16S	Illumina HiSeq 1000
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10N.268.38	16S	Illumina HiSeq 1000
10N.268.39	16S	Illumina HiSeq 1000
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10N.269.38	16S	Illumina HiSeq 1000
10N.269.39	16S	Illumina HiSeq 1000
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10N.281.38	16S	Illumina HiSeq 1000
10N.281.39	16S	Illumina HiSeq 1000
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1011.202.37	103	mumma moey 1000

1037.000.00	1.60	TI : TT'G 1000
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10N.295.39	16S	Illumina HiSeq 1000
10N.296.37	16S	Illumina HiSeq 1000
10N.296.38	16S	Illumina HiSeq 1000
10N.296.39	16S	Illumina HiSeq 1000

Supplementary Table 4. Inflation values used in MCL clustering and effect on OTU inclusion in clusters.

Inflation	Fraction in	
	+/+ Clusters	+/- Clusters
1.6	100%	100%
2.0	100%	100%
2.2	100%	100%
2.4	99%	100%
2.8	100%	99%
3.2	96%	100%
3.6	85%	84%
4.0	76%	74%