Fig. S1. Types of gear used in nekton sampling, 2016–2019: (a) 21.3-m seine, (b) 183-m seine, and (c) baited remote underwater video (BRUV) system.
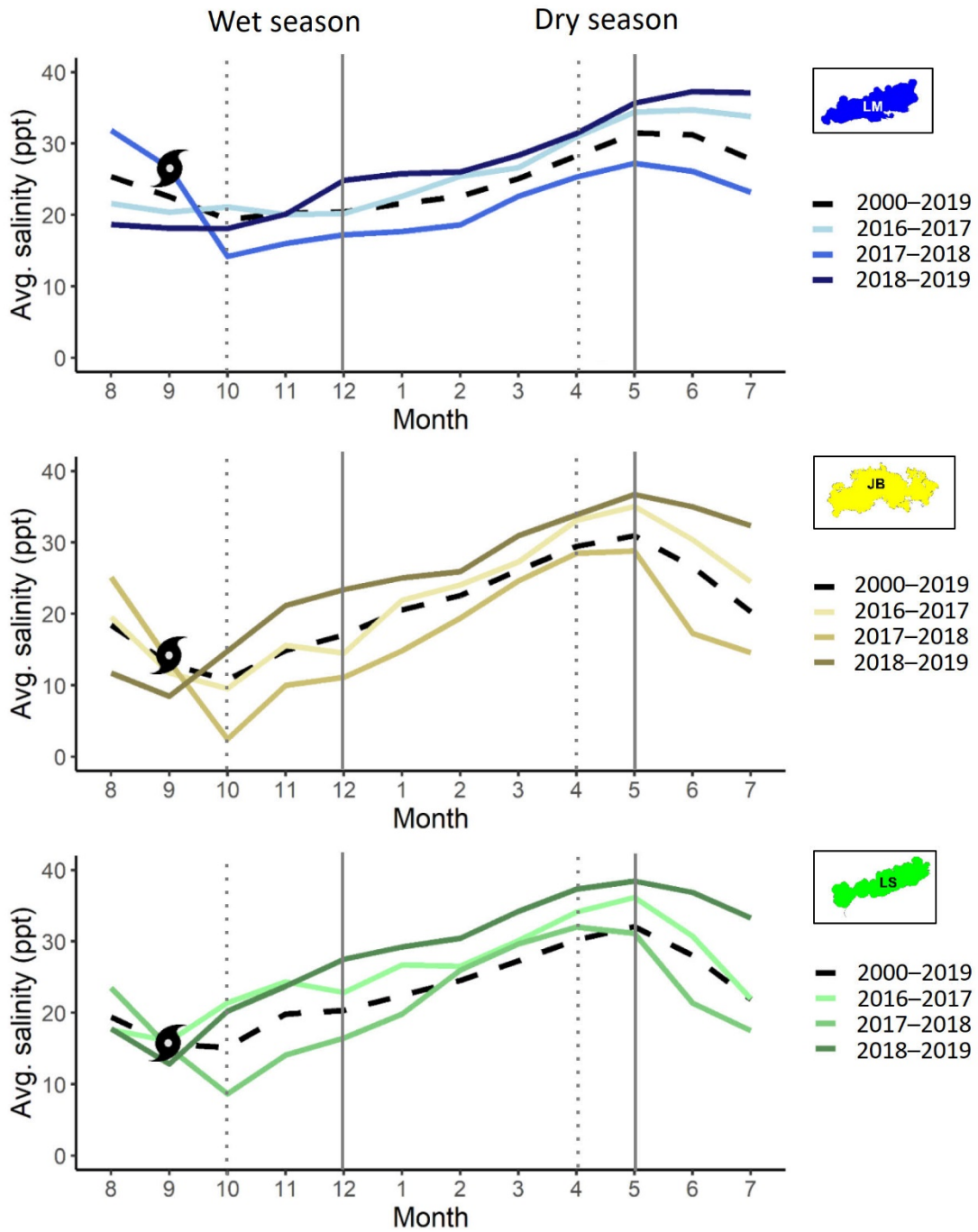
Fig. S2. Monthly mean salinity from hydrology stations in each embayment (LM: Little Madeira; JB: Joe Bay; LS: Long Sound) for the 3 water-years of the study, 2016–2019. Vertical lines denote the timing of sampling for seines (dotted lines: October and April) and BRUVs (solid lines: December and May) each year. Black dashed lines show the 20-year average salinity (2000–2019) for each station for comparison. The hurricane symbol indicates the timing of Hurricane Irma's passage over the study area in year 2 (September 10, 2017).

Table S1. Pairwise results for spatial (basin) and temporal factors (season, water-year) tested in the PERMANOVA analysis of (a) small-bodied and (b) large-bodied nekton assemblages sampled with seines and BRUVs in northeastern Florida Bay, 2016–2019. **Bold** text indicates significant pairwise differences among factors.

(a) Small-bodied nekton

Temporal factors		Seines						BRUVs					
		Little Madeira		Joe Bay		Long Sound		Little Madeira		Joe Bay		Long Sound	
		t	p	t	p	t	p	t	p	t	p	t	p
Wet season													
	2016, 2017	**1.67**	**0.006**	1.33	0.111	0.95	0.554	**2.11**	**0.008**	**3.50**	**<0.001**	**2.45**	**0.001**
	2016, 2018	**1.84**	**0.003**	**1.76**	**0.014**	1.04	0.379	1.14	0.287	1.24	0.175	1.25	0.212
	2017, 2018	0.81	0.726	**1.51**	**0.044**	1.24	0.138	**2.26**	**0.002**	**1.93**	**0.011**	**2.18**	**0.004**
Dry Season													
	2016, 2017	1.79	0.112	1.09	0.284	1.39	0.083	**2.48**	**0.002**	0.88	0.520	**2.30**	**0.003**
	2016, 2018	1.25	0.165	1.13	0.229	**1.91**	**0.002**	**2.05**	**0.004**	**1.65**	**0.043**	**2.77**	**<0.001**
	2017, 2018	1.16	0.216	1.05	0.360	1.29	0.131	**2.99**	**<0.001**	1.36	0.148	**2.71**	**<0.001**
2016	Wet, Dry	1.42	0.063	1.32	0.080	1.22	0.185	0.54	0.778	1.32	0.152	**1.83**	**0.026**
2017	Wet, Dry	**1.71**	**0.003**	**1.55**	**0.008**	**1.58**	**0.013**	**1.75**	**0.012**	**2.35**	**0.004**	**2.84**	**<0.001**
2018	Wet, Dry	**1.90**	**0.016**	**2.19**	**0.001**	**1.74**	**0.002**	**2.36**	**<0.001**	1.33	0.148	**2.07**	**0.006**

(b) Large-bodied nekton

| | Seines | | | | | | BRUVs | | | | | |
| Temporal factors | Little Madeira | | Joe Bay | | Long Sound | | Little Madeira | | Joe Bay | | Long Sound | |
	t	p	t	p	t	p	t	p	t	p	t	p
Wet season												
2016, 2017	1.61	0.051			0.92	0.535	**1.65**	**0.025**	**1.84**	**0.015**	**1.66**	**0.030**
2016, 2018	0.92	0.403			0.93	0.481	**2.82**	**<0.001**	0.98	0.421	**2.22**	**0.001**
2017, 2018	1.06	0.373			1.05	0.404	**2.41**	**<0.001**	**2.14**	**0.005**	**3.28**	**<0.001**
Dry Season												
2016, 2017	1.41	0.058			**1.90**	**0.030**	**1.69**	**0.010**	1.08	0.325	**2.85**	**<0.001**
2016, 2018	1.30	0.172			1.24	0.111	**1.78**	**0.008**	0.37	0.939	**3.31**	**<0.001**
2017, 2018	1.58	0.055			**1.35**	**0.028**	**2.19**	**<0.001**	1.19	0.235	**1.34**	**0.119**
2016 Wet, Dry	0.58	0.914			1.02	0.480	**2.35**	**<0.001**	**1.57**	**0.040**	1.09	0.329
2017 Wet, Dry	1.75	0.062			**1.89**	**0.030**	**2.04**	**<0.001**	**2.15**	**0.007**	**3.07**	**<0.001**
2018 Wet, Dry	1.03	0.306			0.95	0.492	**1.66**	**0.013**	**1.93**	**0.006**	1.35	0.109