

**Supplementary Table 3.** Red tide data for samples collected in December 2019 near Manasota Key and Seagate beaches in Florida. Data extracted from the Beach Conditions Reporting System (BCRS) through Mote Marine Laboratory (<https://visitbeaches.org/>). BCRS Beach Ambassador Reports are submitted by trained volunteers.

Beach Name	Date	Time (ET)	Lat.	Long.	[ <i>K. brevis</i> ] (cells/L)	Depth (m)	Distance to beach (km)
Manasota Key	12/4/19	12:00 PM	27.01767	-82.41496	0	0.5	0.9
Manasota Key	12/4/19	12:00 PM	26.99658	-82.40285	0	0.5	1.8
Manasota Key	12/4/19	12:00 PM	27.04021	-82.42914	0	0.5	3.7
Manasota Key	12/4/19	12:00 PM	26.98155	-82.38897	1500	0.5	3.9
Manasota Key	12/4/19	12:00 PM	26.95008	-82.36454	5500	0.5	8.2
Manasota Key	12/4/19	12:00 PM	26.95008	-82.36454	8500	0.5	8.2
Manasota Key	12/4/19	12:00 PM	27.0871	-82.4319	0	0.5	8.8
Manasota Key	12/4/19	7:51 AM	26.92467	-82.36189	333	0.5	10.7
Manasota Key	12/4/19	12:00 PM	27.112	-82.4502	0	0.5	11.9
Manasota Key	12/4/19	12:00 PM	27.1154	-82.4534	0	0.5	12.4
Manasota Key	12/4/19	12:00 PM	27.12	-82.4645	0	0.5	13.2
Manasota Key	12/4/19	12:00 PM	27.1226	-82.4686	0	0.5	13.7
Manasota Key	12/4/19	12:00 PM	27.13274	-82.46941	0	0.5	14.7
Manasota Key	12/4/19	12:00 PM	27.14054	-82.47178	0	0.5	15.6
Manasota Key	12/4/19	12:00 PM	27.15243	-82.4785	0	0.5	17.1
Manasota Key	12/4/19	12:00 PM	27.16442	-82.48579	0	0.5	18.6
Manasota Key	12/4/19	12:00 PM	27.16986	-82.48801	0	0.5	19.2
Seagate	12/3/19	9:49 AM	26.1864	-81.8155	8667	0.5	2.3
Seagate	12/3/19	9:02 AM	26.25375	-81.82377	667	0.5	5.2
Seagate	12/3/19	10:20 AM	26.13163	-81.8063	0	0.5	8.5
Seagate	12/3/19	8:21 AM	26.30481	-81.8362	0	0.5	11.0