

## Using $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ to determine the migratory history of offshore Louisiana blue crab spawning stocks

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Table S1. Muscle and ovary isotope data for all blue crabs, as well as bottom water environmental measurements taken during our 2007 study of the Ship/Trinity/Tiger Shoal Complex: DO = dissolved oxygen

Month	Station	Location	Salinity (psu)	Temp (°C)	DO (mg l <sup>-1</sup> )	Muscle			Ovary			
						$\delta^{15}\text{N}$	$\delta^{13}\text{C}$	C/N	$\delta^{15}\text{N}$	$\delta^{13}\text{C}_{\text{corrected}}$	C/N	$\delta^{13}\text{C}_{\text{uncorrected}}$
4	1	Ship	27.2	21.9	5.5	11.2	-20.9	3.1	11.4	-18.3	5.2	-20.6
4	1	Ship	27.2	21.9	5.5	9.5	-21.7	3.1	8.7	-21.9	4.8	-23.8
4	1	Ship	27.2	21.9	5.5	9.2	-20.1	3.2	9.0	-16.7	5.4	-19.1
4	2	Ship	32.6	22.8	7.7	11.9	-21.0	3.1	11.3	-19.2	5.2	-21.5
4	2	Ship	32.6	22.8	7.7	14.8	-21.1	3.1	11.9	-17.6	5.3	-20.0
4	2	Ship	32.6	22.8	7.7	12.6	-20.7	3.1	10.3	-19.6	5.0	-21.7
4	2	Ship	32.6	22.8	7.7	10.2	-21.7	3.1	9.3	-20.4	5.0	-22.5
4	4	Ship	33.4	22.6	7.0	9.3	-18.4	3.2	10.1	-17.1	5.3	-19.4
4	4	Ship	33.4	22.6	7.0	9.2	-21.8	3.1	8.4	-21.4	4.7	-23.4
4	4	Ship	33.4	22.6	7.0	11.0	-20.4	3.2	9.9	-17.4	5.3	-19.7
4	4	Ship	33.4	22.6	7.0	10.0	-17.8	3.2	10.0	-17.2	5.4	-19.6
4	4	Ship	33.4	22.6	7.0	11.1	-21.1	3.1	8.9	-19.1	5.4	-21.6
4	4	Ship	33.4	22.6	7.0	10.3	-19.2	3.2	9.9	-17.3	5.4	-19.7
4	4	Ship	33.4	22.6	7.0	10.6	-19.0	3.2	10.1	-17.5	5.5	-19.9
4	4	Ship	33.4	22.6	7.0	9.1	-19.8	3.2	8.5	-19.4	5.3	-21.8
4	4	Ship	33.4	22.6	7.0	8.3	-18.8	3.2	10.0	-18.3	5.3	-20.6
4	4	Ship	33.4	22.6	7.0	9.2	-19.1	3.2	9.8	-17.9	5.1	-20.1
4	5	Ship	34.6	21.8	6.7	10.1	-19.2	3.3	10.9	-16.9	5.2	-19.2
4	5	Ship	34.6	21.8	6.7	9.4	-18.0	3.2	10.9	-17.4	5.3	-19.7
4	5	Ship	34.6	21.8	6.7	9.4	-21.4	3.2	10.1	-20.2	5.2	-22.5
4	5	Ship	34.6	21.8	6.7	9.1	-21.3	3.2	9.1	-19.7	5.0	-21.8
4	5	Ship	34.6	21.8	6.7	9.3	-18.5	3.2	9.6	-18.6	5.3	-20.9
4	5	Ship	34.6	21.8	6.7	10.7	-18.6	3.3	10.3	-18.0	5.3	-20.4
8	1	Ship	25.3	31.0	5.2	9.8	-16.4	3.3	11.2	-17.0	5.1	-19.2
8	1	Ship	25.3	31.0	5.2	9.5	-17.6	3.3	11.0	-17.6	5.2	-19.8
8	1	Ship	25.3	31.0	5.2	9.2	-22.2	3.3	9.3	-20.4	5.1	-22.6
8	1	Ship	25.3	31.0	5.2	10.2	-15.6	3.3	11.9	-15.9	4.6	-17.7
8	1	Ship	25.3	31.0	5.2	9.9	-19.0	3.3	11.1	-16.4	5.3	-18.7
8	1	Ship	25.3	31.0	5.2	12.9	-22.2	3.3	12.0	-22.9	5.6	-25.4
8	1	Ship	25.3	31.0	5.2	11.4	-22.9	3.3	11.6	-17.5	5.2	-19.8
8	1	Ship	25.3	31.0	5.2	12.5	-20.4	3.3	12.4	-17.0	5.2	-25.0

8	1	Ship	25.3	31.0	5.2	9.8	-21.1	3.3	11.2	-16.6	5.3	-19.4
8	1	Ship	25.3	31.0	5.2	11.1	-14.7	3.3	12.5	-15.5	5.2	-18.9
8	1	Ship	25.3	31.0	5.2	12.0	-23.1	3.1	13.2	-17.2	5.3	-17.9
8	1	Ship	25.3	31.0	5.2	11.4	-16.0	3.1	12.1	-15.9	5.3	-19.5
8	1	Ship	25.3	31.0	5.2	13.5	-19.3	3.1	11.7	-17.3	5.2	-18.2
8	1	Ship	25.3	31.0	5.2	10.8	-20.7	3.1	11.9	-17.2	5.1	-19.5
8	1	Ship	25.3	31.0	5.2	11.0	-17.3	3.1	12.3	-17.3	5.3	-19.6
8	1	Ship	25.3	31.0	5.2	11.1	-20.4	3.1	12.3	-16.5	5.0	-19.5
8	1	Ship	25.3	31.0	5.2	11.2	-22.1	3.0	11.5	-17.5	5.1	-18.7
8	1	Ship	25.3	31.0	5.2	9.9	-17.1	3.1	10.5	-22.7	5.0	-19.7
8	1	Ship	25.3	31.0	5.2	13.6	-21.5	3.1	12.0	-18.3	5.2	-20.5
8	1	Ship	25.3	31.0	5.2	11.2	-21.8	3.0	12.8	-18.2	5.2	-20.5
8	2	Ship	27.4	30.5	4.4	10.2	-19.6	3.3	11.3	-15.6	5.3	-17.9
8	2	Ship	27.4	30.5	4.4	10.1	-22.2	3.3	11.1	-19.2	5.3	-21.5
8	2	Ship	27.4	30.5	4.4	11.7	-24.8	3.4	11.9	-19.9	4.3	-21.4
8	2	Ship	27.4	30.5	4.4	7.8	-16.4	3.2	9.4	-18.1	5.1	-20.3
8	2	Ship	27.4	30.5	4.4	12.2	-23.1	3.3	12.2	-17.6	4.9	-19.6
8	2	Ship	27.4	30.5	4.4	13.4	-24.2	3.1	10.0	-19.2	5.4	-21.6
8	2	Ship	27.4	30.5	4.4	9.9	-17.0	3.1	12.4	-18.1	5.1	-20.3
8	2	Ship	27.4	30.5	4.4	12.6	-20.6	3.2	12.4	-16.4	5.2	-18.7
8	2	Ship	27.4	30.5	4.4	14.0	-20.3	3.2	12.4	-18.5	4.5	-20.2
8	3	Ship	27.1	30.6	4.0	12.0	-24.0	3.3	11.4	-19.7	5.2	-22.0
8	3	Ship	27.1	30.6	4.0	10.4	-23.2	3.2	10.3	-19.6	4.8	-21.6
8	3	Ship	27.1	30.6	4.0	10.6	-18.0	3.3	10.1	-19.7	4.9	-21.7
8	3	Ship	27.1	30.6	4.0	11.4	-21.5	3.3	11.5	-16.3	5.0	-18.4
8	3	Ship	27.1	30.6	4.0	10.0	-15.9	3.4	12.0	-15.1	5.2	-17.4
8	3	Ship	27.1	30.6	4.0	12.1	-16.9	3.4	11.5	-16.0	5.5	-18.5
8	3	Ship	27.1	30.6	4.0	12.4	-20.2	3.3	11.6	-16.1	4.4	-17.6
8	3	Ship	27.1	30.6	4.0	11.0	-24.4	3.3	10.7	-18.9	5.0	-21.1
8	3	Ship	27.1	30.6	4.0	12.5	-21.0	3.3	11.0	-19.1	4.9	-21.2
8	3	Ship	27.1	30.6	4.0	12.2	-22.5	3.3	11.7	-18.9	4.7	-20.8
8	3	Ship	27.1	30.6	4.0	11.3	-21.5	3.1	13.0	-16.4	4.5	-18.1
8	3	Ship	27.1	30.6	4.0	13.6	-20.9	3.1	10.8	-20.1	4.9	-22.2
8	3	Ship	27.1	30.6	4.0	12.5	-23.4	3.1	13.3	-18.5	4.2	-19.9
8	3	Ship	27.1	30.6	4.0	13.1	-19.5	3.0	12.9	-17.2	4.1	-18.4
8	3	Ship	27.1	30.6	4.0	9.8	-21.4	3.1	12.3	-16.9	4.9	-18.9
8	3	Ship	27.1	30.6	4.0	11.6	-17.7	3.1	10.5	-20.2	4.3	-21.7
8	3	Ship	27.1	30.6	4.0	12.3	-21.0	3.2	11.9	-16.7	5.2	-18.9
8	3	Ship	27.1	30.6	4.0	10.6	-18.1	3.1	10.1	-20.4	5.3	-22.7
8	3	Ship	27.1	30.6	4.0	11.3	-18.4	3.1	11.9	-17.8	3.9	-18.8
8	3	Ship	27.1	30.6	4.0	10.5	-17.7	3.1	12.2	-16.3	5.2	-18.6
8	3	Ship	27.1	30.6	4.0	12.4	-16.0	3.9	12.1	-15.7	4.9	-17.8
8	3	Ship	27.1	30.6	4.0	10.4	-15.5	3.1	11.1	-17.2	5.4	-19.6
8	3	Ship	27.1	30.6	4.0	10.5	-16.7	3.1	10.9	-17.5	5.2	-19.8
8	3	Ship	27.1	30.6	4.0	10.2	-20.6	3.1	10.5	-18.9	5.0	-21.0
8	3	Ship	27.1	30.6	4.0	12.8	-23.2	3.1	11.3	-19.1	5.3	-21.4
8	3	Ship	27.1	30.6	4.0	10.1	-15.6	3.1	10.7	-16.6	4.8	-18.6
8	3	Ship	27.1	30.6	4.0	11.0	-20.1	3.0	11.5	-17.8	5.2	-20.1
8	4	Ship	29.2	30.6	2.9	9.3	-18.3	3.3	10.3	-18.1	4.3	-19.6

8	4	Ship	29.2	30.6	2.9	11.5	-20.9	3.4	11.6	-16.1	5.0	-18.2
8	4	Ship	29.2	30.6	2.9	11.4	-21.4	3.3	11.6	-16.4	5.2	-18.7
8	4	Ship	29.2	30.6	2.9	10.5	-20.9	3.2	10.2	-19.9	5.2	-22.2
8	4	Ship	29.2	30.6	2.9	10.3	-19.1	3.3	11.5	-17.7	4.6	-19.5
10	1	Ship	30.1	28.2	5.6	8.9	-18.2	3.2	8.8	-19.2	5.2	-21.5
10	1	Ship	30.1	28.2	5.6	10.6	-21.8	3.1	11.1	-19.2	4.0	-20.3
10	1	Ship	30.1	28.2	5.6	10.2	-20.9	3.1	10.6	-19.0	5.3	-21.3
10	1	Ship	30.1	28.2	5.6	11.3	-16.2	3.2	11.5	-16.9	4.1	-18.1
10	2	Ship	30.8	28.1	6.0	9.8	-19.2	3.2	10.8	-18.5	3.9	-19.5
10	2	Ship	30.8	28.1	6.0	10.6	-17.1	3.2	11.5	-16.3	4.1	-17.6
10	4	Ship	33.3	28.2	6.0	9.6	-17.2	3.1	10.4	-17.9	3.8	-18.8
10	4	Ship	33.3	28.2	6.0	9.4	-20.1	3.2	8.7	-21.1	5.4	-23.5
10	4	Ship	33.3	28.2	6.0	9.5	-20.7	3.1	10.6	-18.7	4.7	-20.6
10	4	Ship	33.3	28.2	6.0	8.9	-18.1	3.1	9.8	-18.3	4.0	-19.4
10	4	Ship	33.3	28.2	6.0	11.2	-17.2	3.2	11.9	-16.7	4.5	-18.3
10	4	Ship	33.3	28.2	6.0	9.6	-17.4	3.1	9.9	-18.5	5.0	-20.7
10	4	Ship	33.3	28.2	6.0	10.1	-20.1	3.1	10.3	-18.3	4.2	-19.7
10	4	Ship	33.3	28.2	6.0	8.6	-16.7	3.1	10.0	-17.8	4.1	-19.0
10	4	Ship	33.3	28.2	6.0	8.7	-18.2	3.1	10.1	-17.7	3.9	-18.7
10	4	Ship	33.3	28.2	6.0	10.6	-20.4	3.1	10.4	-18.3	5.3	-20.6
10	4	Ship	33.3	28.2	6.0	10.9	-20.0	3.1	11.2	-19.3	5.1	-21.5
4	10	off shoal	29.5	22.1	3.6	9.7	-15.9	3.2	9.3	-18.3	4.6	-20.1
4	10	off shoal	29.5	22.1	3.6	8.5	-19.9	3.2	9.7	-17.8	5.2	-20.1
4	10	off shoal	29.5	22.1	3.6	9.2	-20.8	3.3	10.4	-18.4	5.3	-20.7
4	10	off shoal	29.5	22.1	3.6	11.0	-17.1	3.3	10.9	-16.9	5.3	-19.2
4	10	off shoal	29.5	22.1	3.6	10.5	-17.7	3.3	11.3	-17.6	5.2	-19.9
4	10	off shoal	29.5	22.1	3.6	10.0	-18.6	3.3	11.7	-16.1	5.3	-18.5
4	10	off shoal	29.5	22.1	3.6	9.2	-17.6	3.2	10.6	-18.5	4.5	-20.2
4	21	off shoal	35.8	20.9	2.5	8.6	-16.5	3.3	7.2	-18.1	5.1	-20.3
4	25	off shoal	na	na	na	10.6	-19.4	3.3	9.4	-19.9	5.1	-22.1
4	25	off shoal	na	na	na	9.8	-20.8	3.5	8.7	-19.7	4.6	-21.5
4	25	off shoal	na	na	na	9.6	-18.6	3.3	9.4	-19.2	4.5	-20.9
4	25	off shoal	na	na	na	10.1	-19.4	3.3	9.4	-20.3	5.2	-22.5
8	10	off shoal	25.7	30.9	2.3	12.2	-19.5	3.2	10.6	-18.2	5.3	-20.6
8	10	off shoal	25.7	30.9	2.3	11.5	-16.9	3.3	10.5	-15.9	5.5	-18.4
8	10	off shoal	25.7	30.9	2.3	8.7	-17.5	3.3	9.9	-18.7	5.2	-21.0
8	22	off shoal	23.9	30.9	5.3	10.0	-16.2	3.2	10.3	-17.7	5.2	-20.0
8	22	off shoal	23.9	30.9	5.3	12.1	-23.2	3.2	11.4	-18.4	4.8	-20.4
8	25	off shoal	26.8	31.2	5.6	10.1	-19.2	3.1	11.5	-18.5	4.7	-20.4
8	25	off shoal	26.8	31.2	5.6	9.0	-21.5	3.2	8.8	-21.2	5.1	-23.3
8	25	off shoal	26.8	31.2	5.6	10.6	-20.5	3.2	10.3	-18.3	5.5	-20.7
8	25	off shoal	26.8	31.2	5.6	9.2	-20.4	3.2	9.4	-19.5	5.3	-21.8
8	25	off shoal	26.8	31.2	5.6	9.4	-18.1	3.1	10.7	-16.9	4.0	-18.1
8	25	off shoal	26.8	31.2	5.6	10.2	-18.4	3.2	11.6	-18.5	4.9	-20.5
8	25	off shoal	26.8	31.2	5.6	8.6	-17.4	3.2	9.8	-18.2	5.2	-20.5
8	25	off shoal	26.8	31.2	5.6	10.7	-17.3	3.1	11.4	-17.9	4.8	-19.9
8	25	off shoal	26.8	31.2	5.6	9.8	-18.5	3.2	11.9	-18.0	5.1	-20.2
8	25	off shoal	26.8	31.2	5.6	9.7	-19.2	3.2	9.3	-19.2	5.2	-21.5
8	25	off shoal	26.8	31.2	5.6	13.0	-24.7	3.1	11.8	-19.9	4.9	-21.9

8	25	off shoal	26.8	31.2	5.6	10.6	-18.7	3.1	11.0	-18.6	4.8	-20.6
8	25	off shoal	26.8	31.2	5.6	10.7	-18.6	3.1	10.4	-18.9	5.0	-21.0
10	20	off shoal	na	na	na	11.0	-19.0	3.2	11.4	-17.3	3.9	-18.2
10	20	off shoal	na	na	na	10.1	-21.5	3.1	9.3	-22.3	4.3	-23.8
10	20	off shoal	na	na	na	9.5	-17.2	3.1	10.7	-17.4	3.8	-18.2
10	20	off shoal	na	na	na	10.2	-19.6	3.1	10.3	-18.8	4.8	-20.8
10	25	off shoal	30.6	27.8	6.0	10.7	-16.8	3.1	10.7	-17.7	5.2	-20.0
10	25	off shoal	30.6	27.8	6.0	10.6	-16.9	3.2	10.4	-18.1	5.3	-20.5
4	7	Tiger	28.4	23.0	7.0	11.9	-20.4	3.2	13.2	-20.5	4.8	-22.4
4	7	Tiger	28.4	23.0	7.0	14.2	-20.7	3.2	12.1	-17.7	5.1	-19.9
4	11	Tiger	24.2	23.5	7.0	14.3	-20.9	3.3	13.7	-20.9	4.1	-22.2
4	11	Tiger	24.2	23.5	7.0	14.7	-22.9	3.2	14.0	-22.1	4.2	-23.5
4	13	Trinity	29.2	22.9	6.7	12.9	-20.5	3.3	13.1	-18.4	5.0	-20.5
4	13	Trinity	29.2	22.9	6.7	14.5	-22.6	3.2	14.4	-20.3	4.5	-21.9
4	13	Trinity	29.2	22.9	6.7	13.2	-21.2	3.3	12.7	-19.2	5.3	-21.6
4	16	Trinity	27.8	23.4	7.7	14.9	-23.9	3.3	13.9	-22.9	4.5	-24.6
4	16	Trinity	27.8	23.4	7.7	14.7	-23.1	3.3	14.2	-22.1	4.3	-23.6
8	7	Tiger	28.6	30.9	4.5	9.7	-21.5	3.3	11.6	-16.8	5.0	-18.9
8	7	Tiger	28.6	30.9	4.5	14.1	-20.8	3.3	12.9	-21.6	5.1	-23.8
8	7	Tiger	28.6	30.9	4.5	12.2	-25.3	3.3	13.0	-23.1	5.2	-25.4
8	12	Trinity	29.9	30.7	5.2	12.3	-20.2	4.1	11.8	-20.5	5.2	-22.7
8	12	Trinity	29.9	30.7	5.2	13.8	-18.6	3.2	11.8	-16.7	5.1	-18.9
8	12	Trinity	29.9	30.7	5.2	13.3	-15.7	3.2	11.9	-16.0	5.3	-18.3
8	12	Trinity	29.9	30.7	5.2	9.9	-15.6	3.3	11.5	-16.9	5.3	-19.2
8	12	Trinity	29.9	30.7	5.2	11.6	-19.5	3.2	12.0	-17.5	5.3	-19.8
8	12	Trinity	29.9	30.7	5.2	14.3	-16.3	3.1	13.6	-16.3	4.6	-18.1
8	12	Trinity	29.9	30.7	5.2	12.8	-22.0	3.2	12.3	-16.6	5.2	-18.8
8	12	Trinity	29.9	30.7	5.2	12.8	-18.8	3.2	12.2	-17.1	5.1	-19.3
8	12	Trinity	29.9	30.7	5.2	11.9	-21.0	3.1	13.2	-18.4	3.7	-19.2
8	12	Trinity	29.9	30.7	5.2	15.0	-16.0	3.1	13.3	-15.9	3.8	-16.8
8	12	Trinity	29.9	30.7	5.2	12.2	-18.7	3.1	12.5	-17.7	4.6	-19.5
8	12	Trinity	29.9	30.7	5.2	13.6	-21.9	3.0	13.6	-20.7	4.2	-22.1
8	12	Trinity	29.9	30.7	5.2	13.6	-18.9	3.0	14.2	-19.7	3.9	-20.8
8	12	Trinity	29.9	30.7	5.2	14.0	-15.8	3.1	13.1	-15.6	4.8	-17.6
8	12	Trinity	29.9	30.7	5.2	13.4	-20.0	3.1	12.5	-16.4	4.8	-18.4
8	12	Trinity	29.9	30.7	5.2	13.0	-20.1	3.1	13.3	-18.5	3.8	-19.3
8	12	Trinity	29.9	30.7	5.2	12.1	-15.9	3.0	13.0	-15.9	4.0	-17.0
8	12	Trinity	29.9	30.7	5.2	13.3	-23.1	3.1	13.6	-18.1	4.2	-19.5
8	12	Trinity	29.9	30.7	5.2	10.4	-20.4	3.1	11.9	-18.2	3.8	-19.1
8	12	Trinity	29.9	30.7	5.2	13.7	-19.2	3.1	12.6	-16.7	4.9	-18.7
8	13	Trinity	29.6	30.8	4.4	12.5	-23.9	3.2	12.1	-23.6	4.1	-24.9
8	13	Trinity	29.6	30.8	4.4	10.4	-20.5	3.2	11.3	-18.5	4.0	-19.7
8	13	Trinity	29.6	30.8	4.4	13.5	-15.9	3.3	12.6	-16.2	5.2	-18.4
8	13	Trinity	29.6	30.8	4.4	12.8	-16.8	3.3	11.8	-17.0	5.2	-19.2
8	13	Trinity	29.6	30.8	4.4	11.3	-19.5	3.1	13.0	-20.2	5.2	-22.4
8	13	Trinity	29.6	30.8	4.4	12.1	-18.6	3.1	12.8	-16.7	3.9	-17.8
8	13	Trinity	29.6	30.8	4.4	10.9	-19.3	3.1	12.2	-17.1	4.2	-18.4
8	13	Trinity	29.6	30.8	4.4	12.4	-19.4	3.1	13.1	-17.4	4.4	-19.0
8	13	Trinity	29.6	30.8	4.4	12.4	-19.3	3.1	12.8	-18.7	3.6	-19.4

8	13	Trinity	29.6	30.8	4.4	13.6	-18.7	3.1	13.4	-17.8	3.7	-18.5
8	15	Trinity	29.6	30.8	4.4	12.3	-23.0	3.2	11.9	-18.4	5.1	-20.7
8	15	Trinity	29.6	30.8	4.4	12.0	-18.9	3.2	12.1	-16.6	5.2	-18.9
8	15	Trinity	29.6	30.8	4.4	12.3	-14.7	3.2	11.7	-15.7	5.2	-18.0
8	15	Trinity	29.6	30.8	4.4	12.5	-18.7	3.2	12.3	-17.6	5.3	-20.0
8	15	Trinity	29.6	30.8	4.4	12.0	-20.6	3.2	12.2	-16.7	5.0	-18.9
8	15	Trinity	29.6	30.8	4.4	14.6	-21.8	3.0	14.7	-21.3	4.5	-23.0
8	15	Trinity	29.6	30.8	4.4	13.1	-20.4	3.0	13.6	-21.0	4.3	-22.5
8	15	Trinity	29.6	30.8	4.4	11.7	-19.6	3.1	13.1	-17.8	4.5	-19.5
8	15	Trinity	29.6	30.8	4.4	14.9	-24.5	3.1	14.6	-19.6	3.8	-20.5
8	15	Trinity	29.6	30.8	4.4	11.0	-19.8	3.1	12.8	-20.6	3.8	-21.6
8	15	Trinity	29.6	30.8	4.4	13.4	-21.2	3.1	13.5	-19.2	4.0	-20.4
8	15	Trinity	29.6	30.8	4.4	12.5	-23.9	3.1	12.9	-20.8	3.9	-21.9
8	15	Trinity	29.6	30.8	4.4	10.7	-20.5	3.1	12.2	-20.2	3.9	-21.3
8	15	Trinity	29.6	30.8	4.4	12.8	-21.1	3.2	14.5	-17.5	4.6	-19.3
8	15	Trinity	29.6	30.8	4.4	14.5	-19.4	3.0	14.0	-17.7	4.1	-19.0
8	15	Trinity	29.6	30.8	4.4	12.4	-19.4	3.1	13.4	-18.2	4.4	-19.8
8	15	Trinity	29.6	30.8	4.4	13.5	-20.3	3.0	13.8	-18.3	4.2	-19.7
8	15	Trinity	29.6	30.8	4.4	10.1	-18.7	3.2	13.4	-18.0	4.9	-20.1
8	15	Trinity	29.6	30.8	4.4	13.0	-20.6	3.0	13.8	-17.3	4.9	-19.3
8	15	Trinity	29.6	30.8	4.4	11.9	-20.5	3.1	11.7	-17.4	5.0	-19.5
8	15	Trinity	29.6	30.8	4.4	13.8	-24.9	3.0	13.6	-22.4	4.3	-23.9
8	15	Trinity	29.6	30.8	4.4	12.7	-22.1	3.1	12.5	-18.1	5.1	-20.3
8	15	Trinity	29.6	30.8	4.4	14.4	-18.8	3.1	12.9	-17.0	5.1	-19.2
8	16	Trinity	28.9	31.2	4.4	13.3	-23.9	3.2	12.7	-18.3	4.1	-19.6
8	16	Trinity	28.9	31.2	4.4	11.7	-20.6	3.2	11.4	-17.4	5.1	-19.6
8	16	Trinity	28.9	31.2	4.4	11.3	-24.1	3.2	12.3	-19.3	5.3	-21.6
8	16	Trinity	28.9	31.2	4.4	13.1	-20.3	3.2	11.9	-16.8	5.2	-19.1
8	16	Trinity	28.9	31.2	4.4	12.3	-21.5	3.2	11.1	-23.4	5.2	-25.6
8	16	Trinity	28.9	31.2	4.4	12.3	-18.9	3.1	13.4	-17.3	3.7	-18.1
10	12	Trinity	31.1	27.8	6.4	12.6	-19.5	3.2	10.8	-17.5	5.3	-19.8
10	12	Trinity	31.1	27.8	6.4	12.9	-20.4	3.3	11.9	-17.2	5.3	-19.6
10	12	Trinity	31.1	27.8	6.4	13.1	-18.4	3.2	12.0	-16.7	4.7	-18.5
10	12	Trinity	31.1	27.8	6.4	13.6	-18.8	3.2	12.0	-17.1	5.2	-19.4
10	12	Trinity	31.1	27.8	6.4	13.1	-22.1	3.2	11.3	-19.6	5.3	-21.9
10	13	Trinity	31.0	27.8	6.4	12.1	-19.1	3.2	11.5	-18.2	5.3	-20.6
10	13	Trinity	31.0	27.8	6.4	13.3	-21.8	3.2	11.9	-19.8	5.3	-22.2
4	24	off shoal	33.3	22.1	6.9	13.7	-22.5	3.3	12.6	-17.9	5.1	-20.0
8	17	off shoal	35.2	28.1	0.5	15.1	-19.4	3.3	13.2	-18.2	4.8	-20.1
8	24	off shoal	31.5	30.5	5.5	11.6	-16.0	3.4	12.1	-15.1	4.2	-16.5
8	24	off shoal	31.5	30.5	5.5	12.6	-21.8	3.2	12.7	-21.2	4.1	-22.5
8	24	off shoal	31.5	30.5	5.5	12.7	-23.6	3.1	13.3	-20.5	4.8	-22.5
8	24	off shoal	31.5	30.5	5.5	10.1	-19.7	3.2	11.1	-18.2	4.8	-20.2
8	24	off shoal	31.5	30.5	5.5	12.4	-20.8	3.1	13.2	-16.6	5.0	-18.7
8	24	off shoal	31.5	30.5	5.5	13.2	-19.9	3.0	13.5	-20.8	4.6	-22.6
10	24	off shoal	31.5	30.5	5.5	10.6	-19.1	3.1	9.6	-19.4	3.9	-20.4