

**Supplemental Table S1 Summary of isotopic data from the literature from studies performed in
Puerto Rico and other similar shallow reef systems.**

Type of Material	Lowest Taxon ID/ Species	Common name	δ13C	δ15N	Location	Source
Juvenile prawns	variety	Shrimp near seagrasses	-19	7.5	Gulf of Carpentaria, Australia	Loneragan et al. 1997
mangrove	<i>Rhizophora stylosa</i>		-28	3.01		
mangrove	<i>Ceriops</i>		-27.4	2.3		
seagrass	<i>Enhalus acoroides</i>		-9.55	1.12		
seagrass	<i>Halodule uninervis</i>		-12.1	3		
seagrass	<i>Halophila ovalis</i>		-10.7	3.1		
seagrass		Epiphytes	-13.3	2.4		
epiphytes						
macroalgae	<i>Caulerpa</i>		-21.55	1		
Seston		Seston	-20.07	5.77		
mangrove	<i>Laguncularia racemosa</i>	white mangrove	-26.4	0.6	Florida	Wooler et al. 2003
mangrove	<i>Laguncularia racemosa</i>	white mangrove	-27.4	0.3	Twin Cays, Belize	
mangrove	<i>Laguncularia racemosa</i>	white mangrove	-26.6	11.4	Man of War, Belize	
mangrove	<i>Laguncularia racemosa</i>	white mangrove	-26.5	12.3	Man of War, Belize	
mangrove	<i>Avicennia germinans</i>	black mangrove	-27.3	20.2	Man of War, Belize	
mangrove	<i>Rhizophora mangel</i>	Red mangrove	-27.2	9.1	Man of War, Belize	
seagrass	Seagrass		-7.8	1.13	Twin Cays, Belize	
seagrass	<i>Thalassia</i> sp.	turtle grass	-7.3	2.6	Twin Cays, Belize	
macroalgae	<i>Ulva</i> sp.	Ulva	-12.2	6.1	Man of War, Belize	
macroalgae	<i>Sargassum</i> sp.		-14.1	2	Twin Cays, Belize	
macroalgae	<i>Halimeda</i> sp.		-13.1	2	Twin Cays, Belize	
	Microbial mat		-22.6	0.4	Twin Cays, Belize	
		Fiddler crabs	-21	3.9	Laguna Joyuda, Puerto Rico	France, 1998
mangrove	<i>Rhizophora mangel</i>	Red mangrove - green leaves	-29.9	4.2	Laguna Joyuda, Puerto Rico	
mangrove	<i>Rhizophora mangel</i>	Red mangrove - biofilmed leaves	-28.9	3.4	Laguna Joyuda, Puerto Rico	
seagrass			-14.1	3.2	Laguna Joyuda, Puerto Rico	
plankton			-25.8	6.3	Laguna Joyuda, Puerto Rico	
macroalgae			-19.9	6.3	Laguna Joyuda, Puerto Rico	
micro-algae			-19.9	2.2	Laguna Joyuda, Puerto Rico	
littoral sediment			-26.9	1.5		
invertebrate tissue		Fiddler crabs	-23		Laguna Joyuda, Puerto Rico	Stoner & Zimmerman (1988)
		polychaetes	-21.7		Laguna Joyuda, Puerto Rico	
		molluscs	-19.7		Laguna Joyuda, Puerto Rico	
		crustaceans	-16.5		Laguna Joyuda, Puerto Rico	
mangrove	<i>Rhizophora mangel</i>	Red mangrove - green leaves	-29.2		Laguna Joyuda, Puerto Rico	
mangrove	<i>Rhizophora mangel</i>	Red mangrove - biofilmed leaves	-27.3		Laguna Joyuda, Puerto Rico	

seagrass	<i>Thalassia testudinum</i>		-16.1		Laguna Joyuda, Puerto Rico	
macroalgae	<i>Caulerpa sertularioides</i>		-20.2		Laguna Joyuda, Puerto Rico	
microalgae	<i>Spirulina sp.</i>	blue-green algae	-14.2		Laguna Joyuda, Puerto Rico	
littoral sediment			-23.9		Laguna Joyuda, Puerto Rico	
fish	<i>Lutjanus jocu</i>	dog snapper	-16.05	10.85	Belize (dry season)	Wetmore 2014
fish	<i>L. griseus</i>	gray snapper	-15.8	10.7	Belize (dry season)	
fish	<i>L. apodus</i>	schoolmaster	-14.6	10.4	Belize (dry season)	
seagrass		seagrass	-7.67	2.32	Belize (dry season)	
mangrove		mangrove	-29	1.45	Belize (dry season)	
phytoplankton		PMA	-21.77	2.15	Belize (dry season)	
phytoplankton		BMA	-10.22	1.7	Belize (dry season)	
phytoplankton	<i>Trichodesmium</i>	POM	-14	1	Gulf of Mexico	Dorado et al. 2012
phytoplankton		POM	-22.2	4.2	neritic	
phytoplankton		POM	-17	0.5	oceanic	
macroalgae	<i>Chaetomorpha sp.</i>	green filamentous	-19.8	2.3	Guánica Biosphere Reserve	present study
macroalgae	<i>Caulerpa sertularioides</i>	feathery green	-19.1	2.7	Guánica Biosphere Reserve	
macroalgae	<i>Ulva lactuca</i>	green flat	-18	4.4	Guánica Biosphere Reserve	
macroalgae	<i>Cladomorpha sp.</i>	green filamentous	-14.8	2.7	Guánica Biosphere Reserve	
macroalgae	<i>Avrainvillea sp.</i>	green fan algae	-8.1	0.7	Guánica Biosphere Reserve	
macroalgae	<i>Dictyota sp.</i>	brown	-14.3	2.4	Guánica Biosphere Reserve	
macroalgae	<i>Chondrus sp.</i>	brown	-15.9	2.8	Guánica Biosphere Reserve	
macroalgae	<i>Padina sp.</i>	brown	-8.5	2.9	Guánica Biosphere Reserve	
macroalgae	<i>Ecotocarpus sp.</i>	feathery red seaweed	-17.6	2.9	Guánica Biosphere Reserve	
invertebrate	<i>Brachycarpus sp.</i>	commensal shrimp	-16.9	6.5	Guánica Biosphere Reserve	
invertebrate	<i>Lysmata sp.</i>	peppermint shrimp	-14.7	8	Guánica Biosphere Reserve	
invertebrate	<i>Pelia sp.</i>	teardrop crab	-13.9	5.9	Guánica Biosphere Reserve	
invertebrate	<i>Calappa sp.</i>	box crab	-12.4	5.9	Guánica Biosphere Reserve	
invertebrate	<i>Petrolisthes sp.</i>	porcelain crab	-12.9	6.2	Guánica Biosphere Reserve	
invertebrate	<i>Holothuroidea sp.</i>	sea cucumber	-9.9	6.6	Guánica Biosphere Reserve	
invertebrate	<i>Ophiuroidea sp.</i>	brittlestar	-6.9	8.53	Guánica Biosphere Reserve	