

Species/Community	Location	seagrass Sediment Delta13C (‰)	Seagrass
Sediment Organic matter content (%)	seagrass Sediment POC (% DW)	seagrass	
Sediment PON (% DW)	unvegetated Sediment Delta13C (‰)	unvegetated Sediment	
Organic matter content (%)	unvegetated Sediment POC (% DW)	unvegetated	
Sediment PON (% DW)	Reference		
Zostera (2000)	M1 -17.3	0.1 0.01 -17.4	0.06 0.01 Boschker et al
Zostera (2000)	M2 -18	0.26 0.04 -17.8	0.09 0.015 Boschker et al
Zostera (2000)	M3 -17.7	0.09 0.01 -17.6	0.07 0.011 Boschker et al
Zostera (2000)	S4 -19.9	2.18 0.23 -20.3	2.26 0.242 Boschker et al
Zostera (2000)	S5 -18.7	1.94 0.2 -20	2.18 0.225 Boschker et al
Zostera (2000)	S6 -20.4	2.23 0.22 -20.4	2 0.199 Boschker et al
Zostera (2000)	-17.4	0.03 0 -19.2	0.02 0.002 Boschker et al
Zostera (2000)	-17.5	0.03 0 -19.8	0.05 0.005 Boschker et al
Zostera (2000)	-17	0.02 0 -19.8	0.05 0.004 Boschker et al
Zostera (2000)	-18.5	0.15 0.01 -19.3	0.18 0.013 Boschker et al
Zostera (2000)	-17.4	0.19 0.02 -18.2	0.13 0.012 Boschker et al
Zostera (2000)	-17.7	0.2 0.02 -17.9	0.17 0.014 Boschker et al
Zostera (2000)	-19.3	0.03 0 -20.6	0.02 0.002 Boschker et al
Zostera (2000)	-19.2	0.04 0 -19.5	0.02 0.002 Boschker et al
Zostera (2000)	-18.8	0.03 0 -19.6	0.04 0.004 Boschker et al
Zostera (2000)	-22.6	0.8 0.09 -23.5	0.52 0.05 Boschker et al
Zostera (2000)	-23.1	0.7 0.07 -23.4	0.21 0.029 Boschker et al
Zostera (2000)	-23	0.54 0.06 -25	0.32 0.032 Boschker et al
" "	-11.3	-11.1	Jones et al. (2003)
" "	-11.1	-11	Jones et al. (2003)
" "	-11.2	-11.2	Jones et al.
" "	-11.3	-12	Jones et al. (2003)
Posidonia oceanica Magalluf	-19.1	0.29 0.03 -21	0.19 0.032
Holmer et al. (2004)			
Posidonia oceanica Magalluf	-18.3	0.22 0.03 -18.4	0.19 0.028
Holmer et al. (2004)			
Posidonia oceanica	Porto Colom -16.5	0.41 0.03 -15.7	0.45
0.029 Holmer et al. (2004)			
Posidonia oceanica	Porto Colom -17.4	0.48 0.03 -16.1	1.78
0.089 Holmer et al. (2004)			
Posidonia oceanica	Cabrera # St. Maria Posidonia Bare 1	-17.7	
0.42 0.04 -17.7	0.23 0.023 Holmer et al. (2004)		
Posidonia oceanica	Cabrera # St. Maria Posidonia Bare 2	-17.8	
0.39 0.06 -17.7	1.47 Holmer et al. (2004)		
Posidonia oceanica	Cabrera # Mooring site M22 Bare 1	-16.3	4.81
0.3 -18.2	0.24 0.041 Holmer et al. (2004)		
Posidonia oceanica	Cabrera # Mooring site M22 Bare 2	-16.7	2.73

0.23	-17	0.18	0.025	Holmer et al. (2004)				
Cymodocea nodosa	Cabrera #	Es Port Bare 1	-14.4		3.03	0.16	-15.8	
2.56	0.11	Holmer et al. (2004)						
Cymodocea nodosa	Cabrera #	Es Port Bare 2	-15.1		2.64	0.15	-15.1	
3.13	0.124	Holmer et al. (2004)						
Cymodocea nodosa	Ebro Delta	-18.35	0.87		-19.59		0.67	
	Bar-n et al	(2004)						
Posidonia oceanica	Cala Llonga	-18.39		0.08	0.01	-18.57		
0.06	0.01	Holmer et al unpublished						
Posidonia oceanica	Cala d'Or	-16.11		0.26	0.01	-16.59		
0.13	0.02	Holmer et al unpublished						
Posidonia oceanica	Athens	-24.55		1.45	0.12	-16.09		
0.67	0.04	Holmer et al. (2007)						
Posidonia oceanica	"Fanals Bay, Spain"	-20.1		1.06		-21.51		
0.74		Gacia et al (2002)						
Zostera noltii	"Mondego Estuary, Portugal"	-21.2				-21.5		
	Baeta et al	(2009)						
Halodule wrightii	"Laguna Madre, Texas, USA"	-15.46						-
16.91		Fry et al (1977)						
Posidonia oceanica	"Alicante, Spain"	-16.01		3.53	0.07	-19.18		
2.19	0.4	Holmer et al (2007)						