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Supplement of

Modeling calcification periods of *Cytheridella ilosvayi* from Florida based on isotopic signatures and hydrological data

Juliane Meyer et al.

Correspondence to: Juliane Meyer (juliane.meyer@uni-graz.at)

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Supplementary material 1

Sample	$\delta^{13}\text{C}_{\text{ostr}}$ (‰)	$\delta^{18}\text{O}_{\text{ostr}}$ (‰)	number of valves	sex
FL-LX-1-33	-7,04	0,22		2* female
FL-LX-1-1	-8,41	0,12		1 female
FL-LX-1-16	-8,33	-1,78		1 female
LX-1-36	-8,54	-0,40		8 adult
FL-LX-1-25/26	-8,71	-0,78		2 female
FL-LX-1-27/28	-7,87	-0,09		2 female
LX1-f39	-7,11	0,58		2* female
LX1-f41	-7,57	0,38		2* female
FL-LX-2-1	-9,02	-2,24		1 female
LX-2-32	-8,67	-0,90		4 adult
LX-2-33	-8,68	-1,08		9 adult
FL-LX-2-35	-8,14	-1,47		2* female
Lx-2-2/3	-8,20	-1,82		2 female
LX2-f36	-7,77	-0,33		2* female
LX2-f38	-8,57	-1,67		2* female
LX2-m39	-9,24	-0,27		2* male
LX2-f40	-8,30	-1,55		2* female
LX-3-31	-7,96	0,55		2* female
LX-3-32	-8,18	-1,13		2* male
LX-3-34	-8,93	-1,37		7 adult
FL-LX-3-2/3	-8,44	-0,61		2 female
Lx-3-4/5	-8,06	-0,60		2 female
Lx-3-6/7	-7,96	-0,31		2 female
Lx-3-24-28	-8,49	-1,08		5 juvenile
LX3-m41	-9,47	-1,54		2* male
LX-5-29	-8,75	-2,87		2* female
LX-5-30	-8,64	-0,26		2* male
LX-5-32	-7,29	0,07		5 adult
Lx-5-3/4	-8,16	0,13		2 female
LX5-m34	-8,67	-1,83		2* male
LX5-m37	-8,51	-1,99		2* male
LX5-m38	-7,43	-1,02		2* male
CAL-1-1	-6,53	0,78		4 adult
CAL1-2+3	-6,39	1,82		2 male
CAL1-4+5	-6,11	1,50		2 female
CAL1-6-9	-6,06	0,90		4 juvenile
Cal 2 - 1/2	-6,17	0,16		2 female
Cal 2 - 3/4	-6,00	0,53		2 female
Cal 2 - 9/10	-5,97	0,48		2 male
CAL2-f31	-6,31	-0,19		2* female
CAL2-m33	-6,34	-0,03		2* male
CAL2-A2-34	-5,69	-0,68		6 juvenile
CAL-14-4-1	-6,39	1,59		2 female
CAL-4-2	-7,17	0,69		7 adult
CAL-4-3	-6,76	1,88		4 adult
CAL-4-4	-6,43	2,15		2* female
CAL-4-5	-6,53	2,00		2* female

CAL-4-6	-6,24	1,57	2* female
CAL-4-7	-6,92	1,11	2* female
CAL-4-13	-7,64	1,07	2* male
CAL-4-14	-7,64	-0,16	2* male
CAL-4-15	-6,53	1,19	2* male
CAL-4-16	-7,86	1,07	2* male
CAL-4-17	-7,47	2,28	2* male
CAL-4-18	-7,26	0,90	3 adult
CAL-4-19	-7,39	0,21	3 adult
CAL-4-20	-7,23	0,18	3 adult
CAL4-21/22	-6,95	0,16	3 adult
CAL-14-5-1	-8,37	-1,50	2 female
CAL-14-5-2	-8,52	-2,28	2* female
CAL-5-3	-8,32	-0,36	6 adult
FL-CAL-5-4	-7,38	0,26	5 adult
CAL5-f5	-7,40	0,30	2* female
CAL5-f6	-7,89	-2,25	2* female
CAL5-m7	-8,08	-0,17	2* male
Cal5 - m10	-8,51	-2,28	2* male
PR1-1+2	-6,36	-0,29	2 female
FL-PR-6-2	-9,06	-0,97	9 adult
PR6-m3	-9,42	-0,98	2* male
PR6-m4	-9,25	-1,25	2* male
PR6-m5	-8,66	-0,89	2* male
PR-15a-1	-9,08	-1,81	2* female
FL-PR-15a-2	-8,52	-2,84	3 adult
FL-PR-15a-3	-8,31	-0,95	6 adult
FL-PR-15b-1	-9,16	-2,03	4 adult
PR15-4+5	-8,58	-2,46	2 female
PR15-6	-9,59	-2,99	2* male
PR15-7	-8,18	-1,55	2* male
EG-3b-1	-3,40	0,66	2* female
EG3-f2	-7,12	-2,42	2* female
EG3-f3	-6,07	-2,03	2* female
EG3-f4	-7,06	-2,22	2* female
EG3-f5	-2,71	0,56	2* female
EG3-m6	-7,85	-1,76	2* male
EG3-m7	-7,87	-1,89	2* male
PG3-9+17	-8,73	-2,20	2 female
PG3-10+15	-7,63	-0,87	2 female
PG3-11	-9,59	-3,05	1 female
PG3-21+25	-7,08	-0,84	2 female
PG3-53+61	-8,90	-2,92	2 female
PG3-66	-6,64	-0,53	2* female
PG3-22/23/24/26	-8,42	-2,00	4 juvenile
PG3-28/55/64/65/67	-8,35	-1,99	5 juvenile
BIC1-33/39	-10,31	-1,29	2 adult
BiC1-31/32/34/35/36	-7,76	-1,26	5 juvenile
LSS1-51/50/7	-2,61	-2,09	2 adult

* both valves of the same individual

Supplementary material 2

	Sample*	N	E	$\delta^{18}\text{O}$	$\delta^{13}\text{C}$
Caloosahatchee River	CAL-5	26°47'21.7"	081°18'33.6"	-0,73	-8,98
	CAL-6	26°46'12.5"	081°26'25.4"	-0,43	-9,58
	CAL-7	26°42'50.0"	081°36'21.5"	-0,59	-9,94
	CAL-8	26°43'16.7"	081°41'40.0"	-0,41	-9,49
	CAL-9	26°42'41.6"	081°45'11.1"	-0,44	-9,75
	CAL-10	26°40'57.9"	081°48'52.8"	-0,29	-10,10
Peace River	PR-5	27°54'5.3"	081°49'1.9"	-0,50	-11,94
	PR	27°48'46.2"	081°47'36.9"	-0,28	-12,36
	PR-8	27°33'2.9"	81°47'41.0"	-0,25	-11,91
	PR-9	27°30'13.5"	81°48'21.2"	-0,14	-11,99
	PR-10	27°20'48.2"	81°49'34.5"	-0,68	-11,69
	PR-11	27°17'51.7"	81°50'46.5"	-0,83	-11,68
	PR-12	27°13'17.9"	81°52'35.5"	-0,71	-11,56
	PR-13	27°04'30.6"	81°59'20.3"	-0,89	-12,04
	PR-14	27°02'37.8"	81°59'8.4"	-0,79	-12,68
	PR-17	26°57'8.4"	82°00'34.8"	-0,94	-9,78

* locations are sorted from spring downstream