## SELECTED CHARACTERS OF NORTHEAST PACIFIC EXOGONE Leslie H. Harris, LACM-AHF, 213) 744-3234, lhh@bcf.usc.edu

CHARACTER	ACUTIPALPA	BREVISETA	DWISULA	LOUREI
	Kudenov & Harris 1995	Kudenov & Harris 1995	Kudenov & Harris 1995	Berkeley & Berkeley 1938
source	Kudenov & Harris 1995	Kudenov & Harris 1995	Kudenov & Harris 1995	Kudenov & Harris 1995
eyes	4 large, lensed; 2 small	4, large, lensed (frequently divided); 2, small eyespots	4, large, lensed	2 pairs, anterior pair lensed
antennae	originate together, between large eyes; median at least as long as palps, and 4x (up to 10x) length of laterals	originate together between posterior eyes; median twice as long as pro- stomium & 2-5x length of laterals	originate separately, median posterior to laterals; median 2x prostomium length, and 1.5-2x length of laterals	all 3 arise together, anterior to eyes; median as long as prostomium & 2-3x length of laterals
palps	long and pointed	long and pointed	broad, rounded	long, usually distally blunt
dorsal cirri on setiger 2	no	no	no	yes
flaps over eyes	no	no	no	no
pharynx	in setigers 1-4	through setigers 6 (8)	usually through setigers 2-3	usually in 3 segments
proventriculus	In setigers 5-7	setigers 7-8 or 8-9	in 2.5 segments, usually setigers 3-5.5	usually in 4-5 segments (range: from 2 to 7 segments long)
muscle rings	20-23 rows	20-23 rows	14-16 rows	usually 18-24 (range: 16 to 30)
length/width provent.				
dorsal simple seta	present from setiger 1, distally pointed, unidentate, becoming bidentate in posterior	present from setiger 1, slightly blfid at first then becoming strongly blfid in posterior	present from setiger 1, with abruptly tapered tips & transverse rows of spines	present from setiger 1, slender, unidentate, distally bent
ventral simple seta	posteriormost segments, distally pointed	from median body, distally bifid	from mldbody, bifid, with subdistal serrations	median & posterior setigers; distally bidentate & curved
aciculum	1, tip curved	1, distally bent tip	1 (2), distally enlarged blunt heads	1 (2) distally enlarged blunt heads
compound setae	12-15 In anterior, 6-8 In median, 4-6 In posterior; blades with reduced subdistal tooth, heavily serrated; superior blades 3x length of inferior blades, size of blades gradually decreasing	all short falcigers, strongly serrated, distally bifid; superior slightly less than 2x length of inferior	<ol> <li>In setIgers 1-3, falcigers with deeply blfid blades, smooth, subequal;</li> <li>7-10 per fascicle</li> <li>2) setIger 4 on: 1-2 superiormost, narrow-bladed spinigers</li> <li>3) setIger 4 on: 3-2 falcigers with short, comblike, bidentate blades with large primary tooth</li> </ol>	<ol> <li>1) 1-2 iong, superior, spinlgers; shafts in set. 2 (sometimes 1) enlarged</li> <li>2) 2-5 short, distally bidentate falcigers; primary tooth terminal, smaller than secondary tooth</li> </ol>
swimming setae		found in setigers 11-27 (1 specimen)	present from setigers 8-9	begin setigers 13-15
Internal reproductive products		present from setigers 9-10 to near end of body	present from setigers 8-9	usually in setIgers 10-14, can occur in setIgers 8-28
attachment of gametes			present from setigers 8-9	
distribution	Southern California	Southern California	SouthernCalifornia & NE Pacific	Pacific Mexico to Britlsh Columbia; ? Pacific rim; ?tropical Atlantic

551-

Exogone naidinoides Westheide has been reported from Japan, Point Barrow, Alaska (Westheide 1974), and Mexico (LHH). Exogone occidentalis Westheide has been reported from Japan (Westheide 1974), southern California and Mexico (LHH)

Exogone longicornis Westheide has been reported from Orcas island, Washington (Westheide 1974).

1

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CHARACTER	MOLESTA		
	Banse 1972		
source	Kudneov & Harrts 1995		
eyes	4, large		
antennae	originate together between		
	anterior eyes; median as iong as		
	palps, & 7-10x length of laterals		
palps	long, distally pointed		
dorsal cirri on setiger 2	no		
flaps over eyes	<u>no</u>		
pharynx	usually through setigers 3-4		
proventriculus	in 4-4.5 segments		
muscle rings	20 rows		
length/width provent.	9		
dorsal simple seta	present from setiger 1, distally		
	pointed		
ventral simple seta	far posterior, usually unidentate,		
	sometimes bidentate		
aciculum	1, distally blunt, knob-tipped		
compound setae	12 in anterior, 6 in median,		
	4 in posterior; anterior superior		
	blades 3-4x length of middle &		
	inferior biades, abrupt difference		
	between two size-groups;		
	anterior blades unidentate or		
	subbidentate, becoming more		
	bidentate posteriorty; all serrated		
swimming setae	present from setiger 11		
Internal reproductive	present from setiger 11		
products			
attachment of gametes			
distribution	California & NE Pacific		

2

## Simplified Identification Table for the Species of Exogone

(includes species recorded for City of San Diego normal surveys - 2005)

Edition: Modification produced 10Aug2005 - RCR

CSD "common" species of <i>Exogone</i>	Dorsal cirrus on setiger 2	Spinigerous compound seta inserted on setiger #	Length of long-bladed falcigers : short-bladed (anterior setigers) [Superior midbody simple setae]
E. lourei	Yes	Setiger 2 (or 1) With enlarged shaft-end on setiger 2	All short-bladed
E. acutipalpa	No	None present	Long-bladed >3X shorted-bladed Grade from long to short [Superior midbody simple setae entire]
E. breviseta	No	None present	All short-bladed (longest <2X shortest) [Superior midbody simple setae strongly bifid]
E. dwisula	No	Setiger 4 (or 5) (none on 1-3)	All short-bladed some with "can opener" blades
<i>E. longicornis</i> (not common)	No	Setiger 1 No enlarged shaft-end	All short-bladed
E. molesta	No	None present (terminus of all compounds is blunt)	Long-bladed 3-4X short-bladed Abrupt difference in length (no size grading)