

DIPOLYDORA OF CALIFORNIA
(based on Blake 1996)

October 1996

Species	Prostomium shape	Eyes	Median antenna (+/-)	Caruncle extends to	Branchiae begin, end	Pygidium shape	Pigmentation	Other Characters	Habitat
<i>bifurcata</i> (Blake 1981)	deeply incised	0	-	setiger 5	8	4 subequal lobes with bacillary glands	none		Borer of coralline algae; No. Calif; intertidal
<i>giardi</i> (Mesnil, 1896)	2 rounded lobes	0	-	anterior margin of 3 or mid of 4th	(8-10) through 25th absent from posterior	constricted collar (disk) small cuff; open	none		Coralline zones; boring in calcareous growth;
<i>cardalia</i> (Berkeley, 1927)	bifid	4	-	end of 5; anterior of 6	8 (7-9) to near end	variable; disk w/ notch, 3-lobed 4-lobed	dark brown, small transverse bands on some anterior segments	notopodial postsetal lamellae of setiger 1 large, leaf-like	British Columbia; Western Pacific
<i>socialis</i> (syn= <i>neocardalia</i>) (Schmarda 1861)	bifid	4-6 sometimes absent	-	4 - 9	8-near end (7-9 rare)	flaring disk w/dorsal notch; may have shallow lateral notches or 2 dorsal lobes	dorsal pigment spots. sometimes dark patches on pygidium, posterior of prostomium, anterior body	notopodial postsetal lamella of setiger 1 cirriform	Mud and silt, lagoons intertidal - 400m
<i>bidentata</i> (syn= <i>convexa</i>) (Zachs, 1933)	bifid	0-4	-	posterior margin of 4	8 through anterior 1/3	4-lobed, dorsal pair smaller than ventral	occasionally darker on anterior		Hermit crab shells; shells rock scrappings; soft
<i>akaina</i> Blake 1996	narrow & incised	0	-	end of setiger 4	7-20	4 subequal lobes	light tan		Deep water rocky outcrops; off central Calif.; 75 -168m
<i>armata</i> (Langerhans 1880)	bilobed	0	-	posterior margin of 2nd	7 - 12	narrow collar or cuff, incised mid-dorsally	white - light tan		Intertidal coralline or calcareous growths
<i>caulleryi</i> (syn= <i>brachycephala</i>) (Mesnil, 1896)	deeply incised	0-4	-	3 - 4	7 - 15/20 from end	4 subequal fleshy lobes	none		Intertidal in littoral silts and clayey mud
<i>quadrilobata</i> (Jacobi 1883)	incised	4 in a line	-	anterior margin 3	7 through 2/3 's body	4-lobed	none		U-shaped tubes in mud, subtidal
<i>commensalis</i> (Andrews 1891)	small/ rounded/ faintly bilobed	0-4	?	absent	6-near end	constricted, surrounded by 4-14 short papillae	none	notosetae very long on set. 1-4	Hermit crab shells; mud flats
<i>elegantissima</i> (Blake & Woodwick, 1972)	2 widely divergent lobes	0	-	3 or 4; continuing as low nuchal ridge for 30-40 add. setigers	8(7)-near end	4 nearly equal lobes	light tan; palps dark along margins of ventral grooves	notopodial postsetal lamellae well developed on setigers 2 - 4	Hermit crab shells; <i>Tivela</i> intertidal to 20 m

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Species	Spine type setae, set 5	Companion, setae (+/-) and type	Superior / inferior setae (+/-)	Neuropodial hooks begin	Posterior notopodial spine type
<i>bifurcata</i> (Blake 1981)	w/ large tooth on curved l small spur on convex side	+ / bristled companion setae	+/+	7	3 - 4 thick curved spines
<i>giardi</i> (Mesnil, 1896)	biccate w/ accessory tooth	+	+/+	7	none
<i>cardalia</i> (Berkeley, 1927)	2+ falcate w/ a weak subterminal boss	+	?/+	8(7)	needle-like capillaries
<i>socialis</i> (syn= <i>neocardalia</i>) (Schmarda 1861)	usually straight w/ subterminal falcate w/ subdistal cavity)	+	+/+	7	none
<i>bidentata</i> (syn= <i>convexa</i>) (Zachs, 1933)	biccate w/ broad collar on convex side	+	+/+	7 unidentate in posterior	specialized pockets of fine needles in notosetae
<i>akaina</i> Blake 1996	w/ slightly bent tips and a notch; tips covered with fine bristles	-	+/+	7	6 spines in cone-shaped bundle
<i>armata</i> (Langerhans 1880)	asymmetrical side, bidentate distally l w/ bold transverse flange	-	+/+	7 (1-16)	post 8-12 w/ conelike fascicle of acicular spines
<i>caulleryi</i> (syn= <i>brachycephala</i>) (Mesnil, 1896)	10-12 distally curved, brush-topped	+	+/+	7	large, straight formed into a rosette
<i>quadrilobata</i> (Jacobi 1883)	5-7 distally bifid bristly tuft in concavity	-	+/+ (see Light 1978)	7	acicular spines
<i>commensalis</i> (Andrews 1891)	5-7 distally curved w/ lateral flange	+ bilimbate	-/+	10 to 14	none
<i>elegantissima</i> (Blake & Woodwick, 1972)	biccate w/ lateral sheath	+	+/+	10,11,12	none

Red ink indicates characters that the species have in common