

MARPHISA SPECIES REPORTED FROM THE NORTHEAST PACIFIC

Leslie Harris, NIMH/LAC 210-783-3234  
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species	source of data	size	occipital tentacles	ratio anterior prostomial ring to posterior prostomial ring (measurements from illustrations if not from text)	eyes	branchiae on setigers#	# branchial filaments	capillary setae	composite setae	subacicular hooks	pectinate setae	acicula color & number	maxillae	mandibles	pigmentation	location	comments	
angelensis Fauchald 1970			do not reach beyond prostomium				begin set. 11, continue to 2-3 (usually 2) end of body		falcigers & spinigers	bilfd, begin set. 17								
conferta Moore 1911	holotype examined: LH						begin set. 8 w/ 6 filaments & dc; set. 9 w/ 6+dc; set. 10 w/ 7+dc; set. 11 w/ 7+dc; set. 12 w/ 6 (some broken) +dc; set. 13 w/ 7 + dc; set. 14 w/ 7 + dc; set. 15 w/ 6 + dc; set. 16 w/ 4 + dc (other specimens begin 7-9, on 13 segments)	up to 7, pinnate	falcigers only; have very wide angle between teeth, ill. in Moore 1911 & Hartman 1969 inadequate							Santa Rosa Island, 41 fms		
conferta Moore 1911	Hartman 1968	24 to 33 mm, with 10-2 mm; more than 57 segments	short, from ill. would reach to middle of 2nd apodous ring	ill. anterior ring 12 mm, posterior ring 8 mm, 1st setiger 6 mm	2, large	4, present on 10 segments	5-7, pinnate	present throughout	bilfd falcigers in dense fascioles in subacicular position of anterior parapodia; spinigers not mentioned or illustrated	bilfd, ill. shows sharp present, 16-18 teeth in middle & posterior	yellow				pale with bright red prostomium and reddish brown stripes across dorsum	S. California, 76-200 m, rocky & mixed sediments		
disjuncta Hartman 1961	holotype examined: LH	59 X 1.6 (w/out, 1.8 with) mm at set. 16-108 setigers, posteriormost setigers missing			not visible	on set. 12-27			falcigers in last 1/6 of worm									
californica Moore 1909	Moore 1909	type: 80 x 11 mm, 92 seg. (inc.); coltype 45 X 3 mm, 140 seg. (inc.)	wrinkled; median & outer pair subequal, inner pair slightly longer & about 1.5X width of prostomium	peristomium 3X segment 2; seg. 2 equal to following	2, small	type: begin seg. 33-34 with 2 filaments, coltype: seg. 20-21 with 1 filament	4-6, pectinate; not exceeding 1/5 of body width. Type: 2 filaments seg. 33-35, 3 fil. 36, usually 4 fil. 37-54, 5 (occ. 6-7) on seg. 55-88, then 5 on remaining seg. Coltype: 1 fil. seg. 20 to 25, 2 fil. to 51, mostly 3 fil to 90, 2 fil. to seg. 124, then	present throughout	spinigers only, shaft tips coarsely toothed, blades w/ slight marginal denticulations; superior 2X ventral	single bilfd, hooded, present in coltype in middle region, not in end longer & curved)	anterior pectinates few w/ numerous fine teeth (ill. about 30, 1 end tooth longer & curved); 2nd form w/ few coarse teeth arises further back (ill. 12 teeth, tooth on 1 end longer & curved)	black; 4-6 in anterior; 2-3 in middle	M1 = 1 + 1; M2 = 4-5 stout teeth; M3 = R7-8 + L6; M4 = R2 plates meeting in ridge + L8; M5 = Lamellar to M4 right	coarsely toothed on margin	anteriorly dull reddish purple with numerous small white spots, culicite with greenish iridescence; posteriorly grayish with pink tinge	San Diego, CA	Jaws need to be re-examined	
disjuncta Hartman 1961	Hartman 1968	130 x 5 mm, 100+ segments	longest extends to about set. 3	ill. anterior ring 3.5 mm, posterior ring 3.5 mm, 1st setiger 2.5 mm	2, black	from set. 13-14, on about up to 20, pinnate 15 segments		present	spinigers in anterior region; black w/ pale tip, acicular in shape or slightly curved	begin post-branchial region, 3-5 in superior fasciole, w/ 8-10 coarse marginal teeth	dark w/ pale tips, usually 2 per fasciole					S. California to San Diego, 50-100 m, green silt to sticky mud	falcigers not mentioned	
mortenseni Monro 1928	Hartman 1968	47 X 3 mm, 108 segments	short, smooth, from ill. less than 1/2 of prostomial length	buccal region about 1.5X as long as following segment	none	from set. 25 thru at least 83 segments	up to 6, subpalmate	ill. present	falcigers, distally bilfd segments, basally dark, distally pale	median & posterior segments, bilfd	not mentioned	pale brown to black, 5 in anterior, diminish to 2 in median & posterior				Taboga, Panama, low tide, sand (type); Redondo Beach to Cortes Bank, 20-100 m, rubby & shelly bottom	ill. dorsal cirrus forms odd T-shaped lobed	
sanguinea (Montagu 1815)	Hartman 1968	80 to 250 mm, 3 to 11 mm, 200+ segments	smooth or wrinkled; ill. tips extend just past frontal margin	ill. anterior ring 3 mm, posterior ring 1.5 mm, 1st setiger 1.5 mm	2, black	begin seg. 31 to 33, persistence on body not mentioned	5 to 7, palmate	present, anterior	spinigers in anterior region; bilfd, hooded, in median & posterior	fine numerous teeth in anterior & few coarse teeth further back	dark to black, rodlike, 4-6 in anterior & 2-3 median & posterior				uniformly pale flesh to dark rose, branchiae bright red	England (type); cosmopolitan; S. Ca in intertidal mud & algal covered estuaries	Hartman includes M. californica Moore 1909 in synonymy possibly valid species	
sanguinea (Montagu 1815)	Hutchings & Karageorgopoulos 2003	neotype: 250 X 12 mm, 230 setigers, complete. Topotypes 204-330 X 6-9 mm, 230-275 setigers	short, smooth, median longest reaching to anterior margin of setiger 1	from text: anterior peristomial ring 2, purplish in life 2.5X posterior ring	2, purple in life	begin set. 24 (13-27); present to near end of body	start with 1, rapidly increase to max. of 6, pinnate	present in superior fasciole throughout, smooth in anterior & more hirsute towards posterior; 2 micro-capillaries at base of inferior fasciole from about setiger 21	heterogomph spinigers w/ hirsute shafts & "saccul-like" articulations, more capillaries in anterior; posterior	1 may be 2 in posterior) hooded bilfd from about setiger 21 (20-76; may not be present at all)	10-11 per fasciole, of 2 types: fine pectinate w/ about 17 teeth from setiger 1 or 2, coarse pectinate w/ about 14 teeth in median & posterior setigers	black; most in anterior (6 Mx1 = 1+1, Mx2 = left w/ 3-4) equal teeth, right with 3 teeth (4-5), anteriormost largest; Mx3 = 6 (4-6) all teeth small & even; Mx4 = 4 + 7 (3-5 + 5-4) (all uniform); Mx5 = 1 +1	calcified oar-shaped tips, micro-dentate	live; mature males mostly creamy-yellow & mature females light olive-brown				
sp. A Harris	Hartman 1969 (as bellioclata Treadwell 1921)	1.1 mm	longest extends to set. 2, smooth	ill. anterior ring 7 mm, posterior ring 5 mm, 1st setiger 6 mm	2, black	10 thru 21	up to 8, pinnate	present throughout	falcigers & spinigers in post-branchial region	bilfd, ill. shows rounded tips	present	pale at tips, dark basally, distally blunt				Catalina Canyon, 379 m	Hartman (1968) identified this as M. bellioclata Treadwell 1921; her description is of a small specimen of sp. A, some characters are size-related	
sp. B Harris	examination of specimens	5 mm wide at set. 5, 10 mm wide at set. 50, 4 mm wide at set. 5, 9 mm at set. 50	1.5-2 X longer than prostomium, smooth		2, black	begin on 18, continue to end of 87 setiger worm; on 17, continue to end of 52 setiger worm	6, pinnate		composite spinigers	yellow, bilfd in anterior, unilfd in posterior	anterior setae w/ 15 fine teeth & greatly prolonged lateral end teeth; posterior setae w/ 25-30 fine teeth, lateral end teeth long, width of setae wider than in anterior	black, 4 at set. 4, 3 at set. 18				San Diego, South Bay	Its group B.2 of Fauchald (composite spinigers only) branchiae present in long region of body; none of the local species belong to group B.2	
sp. C 7	examination of specimen	100 x 4 (at set. 5), x 9 (set. 50); approx. 205 set. com.	smooth, all long, about 2x frontal lobe, longest reaches past anterior margin of set. 3	anterior ring 2.5X posterior ring	2, black	begin set. 23-22, extend to about set. 90.	4 (rarely 5), pinnate, last transition from 1 to 4	present throughout; not very spinigers only. Same situation regarding hirsute condition & blade edges as in also blade edges more noticeably denticulate in anterior; superior most longer than inferior in median & posterior; in	falcigers & spinigers	first appear about set. 75	2 types. set. 3: few (47), about 12 thin long teeth & 2 long curved end pieces. Median: 1 type with about 12 big teeth, long end pieces. 2nd with about 25 small teeth & 2 long end pieces, posterior: small with about 25 teeth, short end pieces, type wit	set. 3, 4; median: 4; post. 2; black	Mel: 1 + 1; Mx2: R5 + L4; Mx3: 6; Mx4: R5 + L4; Mx5: 1 + 1	black, micro-dentate	preserved: dull brown, numerous white spots in anterior	Coyote Point, San Francisco Bay (MLML-ISS IDORG 217205)		
sp. C Harris (orig. sp. TB Harris)	examination of specimen	150 setigers	barely past prostomium			begin on 16, continue to last 1/5 of body; 2nd filament from set. 27 to 50, then 3 filaments at most	3, pinnate		composite spinigers		black					light brown or conspicuous reticulate brown on white pattern in anterior	Tonales Bay	
sp. nov. Phillips	examination of specimen	150 setigers	barely past prostomium			begin setiger 10, 2nd filament on set. 29, 3rd filament on set. 45			composite spinigers								close to M. angelensis Fauchald but M. angelensis has composite falcigers in addition to spinigers	
stylobranchiata Moore 1909	Hartman 1968	100+ mm X up to 4.5 mm, 140-160 segments	smooth, short, longest one nearly as long as prostomium		2, small	begin set. 16-20, diminish in size in posterior	simple, resemble dorsal cirri	present throughout	falcigers, bilfd & hooded, most abundant in anterior	not mentioned	median & posterior; ill. fine teeth in anterior	black w/ pale tip, 3-5 per fasciole				uniformly pale flesh	Central California, rare in S. CA, intertidal to slope, rocky	specimens definitely different from S. CA slope worms, may be M. angelensis Fauchald 1970