

Characters of *Spiophanes* species based on Karin Meissner's manuscript, "Identification guide to *Spiophanes* species from around the American continent"

	<i>Spiophanes kroyeri</i> Grube 1860	<i>S. fimbriata</i> Moore 1923	<i>S. similis</i> sp. n.	<i>S. longisetus</i> sp. n.	<i>S. berkeleyorum</i> Pettibone 1962
Prostomium	bell-shaped	bell-shaped	subtriangular to bell-shaped	subtriangular to bell-shaped	bell-shaped
Occipital antenna	present	present	present	present	present
Nuchal organs	two straight parallel lines along dorsum extending to setigers 14-16	two mediolateral straight lines along dorsum extending to setigers 8-11	two dorsal loops extending to setigers 5-6	two short double loops extending to beginning of setiger 3 at most	two lines starting laterally on posterior end of prostomium, converging on setigers 3-5, diverging again, running as gradually converging lines along the dorsum, extending to setiger 15
Chaetal spreader	"0+1 type"; semicircular glandular opening well developed in setigers 5-7	"0+1 type"; semicircular glandular opening well developed in setigers 5-7	"0+1 type"; semicircular glandular opening well developed in setigers 5-7	"0+1 type"; semicircular glandular opening developed in setigers 5-7	"1+2 type"; undulate opening well developed in setigers 5-7
Ventrolateral intersegmental genital pouches	present from between setigers 15-16	present from between setigers 14-15	absent	absent	absent
Neuropodial hooks:					
•starting setiger	15	15	15	15	15
•quadridentate	yes	yes	yes	yes	yes
•hoods present	no	no	no	yes, strongly reduced	no
•no. of hooks	5-8 arranged in 1 row	5-7 arranged in 1 row	3-4 arranged in 1 row	3-4 arranged in 1 row	8-12 hooks arranged in 1 row (5-6 in juvenile)
Pygidium	8 cirriform slender anal cirri	single median anal cirrus in dorsal position; 3 laterally attached cirri on each side	2 short and slender anal cirri attached dorsolaterally	unknown	terminal with 8-12 cirriform, sometimes bifurcate, slender anal cirri
Other comments		nuchal organs are shorter and in more lateral position than <i>S. kroyeri</i>		very long and granulated notosetae in parapodia of posterior setigers	

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	<i>S. duplex</i> (Chamberlin 1919)	<i>S. kimballi</i> sp. n.	<i>S. bombyx</i> (Claparède 1870)	<i>S. wigleyi</i> Pettibone 1962	<i>S. anoculata</i> Hartman 1960
Prostomium	bell-shaped to subtriangular	subtriangular to bell-shaped	subtriangular with long, digitiform anterolateral horns	bell-shaped to subtriangular or almost oval-shaped	bell-shaped
Occipital antenna	absent	present	absent	absent	absent
Nuchal organs	two straight parallel lines along dorsum extending to setigers 13-14, then alternately diverging and converging on setigers 15-17	two broad ciliated bands starting laterally on posterior end of prostomium, converging on setigers 1-2, running parallel in middle of dorsum, extending to setigers 11-13	two short, broad dorsal lines extending to end of setiger 2; slightly diverging on setiger 2	a pair of dorsal loops extending to beginning of setiger 4	continued ciliated grooves to the end of setiger 3, thereafter replaced by segmental ciliated grooves interrupted by segmental furrows, for about 1/2 the body length
Chaetal spreader	"2+3 type"; undulate glandular opening well developed on setigers 5-7	"2+3 type"; undulate glandular opening well developed in setigers 5-7	"0+1 type"; undulate openings well developed on setigers 5, 7, and 8; on setiger 6 the opening is reduced to a short vertical slit		not determinable in the holotype
Ventrolateral intersegmental genital pouches	absent	absent	absent	absent	absent
Neuropodial hooks:					
•starting setiger	15	15	15	15	15
•quadridentate	yes	usually	yes	yes	yes
•hoods present	no	no	yes	yes	yes
•no. of hooks	4-8 arranged in 1 row	5-6 arranged in 1 row	7-9 in 1 row	10-11 in Australian spms; 14-16 in spms from Japan	6-8 (Blake 1996) or 9-12 (Hartman 1969) arranged in 1 row
Pygidium	lateral with 2 cirriform slender anal cirri	probably 1 pair of cirriform, slender anal cirri, dorsolaterally attached	two thin, cirriform anal cirri	4-6 anal cirri	unknown
Other comments		Neuropodial hooks sometimes with additional median uppermost teeth complementary to the two lateral ones		parapodial glands of setigers 5-8 with indistinct, crescent-shaped, horizontal glandular openings	