



Key to the Family Onuphidae of SCAMIT (Ed. 13) and Local Provisional Species

Modified from MMS Atlas and Hartman Atlas

Definitions

OLA - Outer Lateral Antennae

ILA - Inner Lateral Antennae

- 1a. Peristomial cirri present 2
- 1b. Peristomial cirri absent; 1 or 2 pair of conspicuous eyes; ventral cirri pad-like from chaetiger 3; branchiae simple, from chaetiger 19; hooded hooks bidentate in first 3 chaetigers; subacicular hooks from about chaetiger 20
Hyalinoecia juvenalis
Moore, 1911
- 2a. (1a) Anterior chaetigers modified, but carrying pseudocompound or simple hooded hooks; at least ILA longer than first 2-3 chaetigers 3
- 2b. First three chaetigers greatly modified, with very long, slender, distally recurved hooks; chaetal sacs extending back to chaetiger 50, at least through chaetiger 25; antennae no longer than first 2-3 chaetigers
Rhamphobrachium longisetosum
Berkeley & Berkeley, 1938
- 3a. (2a) Branchiae spiraled
3b. Branchiae simple, pectinate or absent 4
genus *Diopatra* - 6
- 4a. (3a) Hooded hooks bidentate 5
- 4b. Hooded hooks tridentate (juveniles may be only bidentate); branchiae from chaetiger 4 or 5 to ~40; subacicular hooks from chaetigers 12-14; pectinate chaetae with about 20 fine teeth; maxillary formula: MI 1+1, MII 10+11, MIII 10+0, MIV 5+9, MV 1+1; with pigment patch mid-dorsally and dorso-lateral in
Diopatra tridentata
Hartman, 1944
- 5a. (4a) Eyes absent; branchiae from chaetiger 4 or 5 to ~80; subacicular hooks from chaetiger 18-21; pectinate chaetae with about 20 fine teeth; maxillary formula: MI 1+1, MII 7/8+8/10, MIII 7+0, MIV 5/6+7, MV 1+1; pigment patches present on the base of the dorsal cirri, ventral cirri and postchaetal lobe
Diopatra ornata
Moore, 1911
- 5b. Eyes present; branchiae from chaetiger 4 or 5 to ~60; subacicular hooks from chaetiger 18(10); pectinate chaetae with about 7 coarse teeth; maxillary formula unknown; body a uniform brown color
Diopatra splendidissima
Kinberg, 1865

6a. (3b) First parapodia with prominent, auricular prechaetal lobes in addition to subulate postchaetal lobes	genus <i>Nothria</i> -	7
6b. Prechaetal lobes inconspicuous throughout; pectinate chaetae flat	-----	8
7a. (6a) Pectinate chaetae scoop-shaped, with ~10 teeth; hooks in chaetiger 1 simple, in chaetigers 2 & 3 pseudocompound, unidentate in chaetigers 1 & 2, bidentate in chaetiger 3; subacicular hooks from chaetigers 9-10; branchiae from chaetiger 8	<i>Nothria occidentalis</i> Fauchald, 1968	
7b. Pectinate chaetae with many teeth; hooks in chaetiger 1 & 2 simple, falcate, pseudocompound in chaetiger 3, unidentate and bidentate in chaetigers 1-3; subacicular hooks from chaetiger 13; branchiae from chaetigers 8 or 9	<i>Nothria</i> sp DC1 Harris, 2014 §	
8a. (6b) Ceratophores of occipital antennae distinctly longer than prostomium; styles of OLA shorter than ceratophores	genus <i>Onuphis</i> -	9
8b. Ceratophores of occipital antennae as long as prostomium or shorter; styles of OLA longer than ceratophores	-----	19
9a. (8a) Branchiae from chaetigers 1 to 2	-----	10
9b. Branchiae from chaetiger 3 or later	-----	17
10a. (9a) Branchiae simple throughout	-----	11
10b. Branchiae pectinate, number of filaments variable	-----	15
11a. (10a) Subacicular hooks begin after chaetiger 10	-----	12
11b. Subacicular hooks begin prior to chaetiger 10	-----	14
12a. (11a) Subacicular hooks begin in chaetigers 12 or 13	-----	13
12b. Subacicular hooks begin in chaetiger 11; pseudocompound hooded hooks tridentate; ventral cirri cirriform thru chaetiger 6, transitional in chaetiger 7 and pad-like from chaetiger 8; ceratophores of OLA with 15 annulations, ceratophores of ILA with 18-19 annulations	<i>Onuphis</i> sp HYP1 Phillips, 2012 §	
13a. (12a) Subacicular hooks begin in chaetiger 12; ventral cirri cirriform thru chaetiger 5, transitional in chaetiger 6 and pad-like from chaetiger 7; pectinate chaetae flat, oblique with ~16 teeth; maxillary formula: MI 1+1, MII 9+9, MIII 8+0, MIV 7+8, MV 1+1	<i>Onuphis</i> sp HYP2 CLAEMD, 2020 §	
13b. Subacicular hooks begin in chaetigers 12 or 13; ventral cirri pads from chaetiger 6 (chaetiger 4 or 5 in juveniles); pectinate chaetae with ~15 teeth; maxillary formula: MI 1+1 (slender, gently curved), MII 7+7/8, MIII 7/8+0, MIV 5+10, MV 0	<i>Onuphis iridescens</i> (Johnson, 1901)	

- 14a. (11b) Branchiae slender throughout; subacicular hooks from chaetiger 8-9; ventral cirri pads from chaetiger 6 or 7; maxillary formula: MI 1+1, MII 7+7, MIII 8+0, MIV 6+8, MV without teeth, only squarish plates *Onuphis* sp A
SCAMIT, 1992 §
- 14b. Branchiae wider and thicker in median chaetigers than in anterior chaetigers; subacicular hooks from chaetiger 8-9; ventral cirri pads from chaetiger 6; maxillary formula: MI 1+1, MII 6/7+5/7, MIII 7/10+0, MIV 6/7+5/8, MV 1+1 *Onuphis elegans*
(Johnson, 1901)
- 15a. (10b) Interramal papillae present in chaetigers 4 thru 10 ----- 16
- 15b. Interramal papillae absent in chaetigers 4 thru 10; subacicular hooks from chaetiger 10; bidentate & tridentate pseudocompound hooded hooks present in chaetigers 1 thru 5; branchiae with a maximum of 3 filaments; ventral cirri pads from chaetiger 7; maxillary formula: MI 1+1, MII 8/9+10, MIII 10+0, MIV 7+10/11, MV 1+1 *Onuphis multiannulata*
Shisko, 1981
- 16a. (15a) Subacicular hooks from chaetiger 8; tridentate pseudocompound hooded hooks present in chaetigers 1 thru 4; pectinate chaetae with 15 teeth; branchiae with a maximum of 6 filaments; ventral cirri pads from chaetiger 7; 1 pair of very small eyespots present just posterior to frontal antennae; maxillary formula unknown. *Onuphis eremita parva*
Berkeley & Berkeley, 1941
- 16b. Subacicular hooks from chaetiger 10; tridentate pseudocompound hooded hooks present in chaetigers 1 thru 5; pectinate chaetae with 9-10 very long teeth, branchiae with a maximum of 5 (maybe a small 6th) filaments; ventral cirri pads from chaetiger 7; 1 pair of eyespots present as a cluster, lateral to ILA (obscured by ILA from above); maxillary formula: MI 1+1, MII 9+9, MIII 8+0, MIV 6+8(9), MV 1+1 *Onuphis* sp B
SCAMIT, 2023 §
- 17a. (9b) Pseudocompound hooded hooks present to chaetiger 4 or later ----- 18
- 17b. Tridentate pseudocompound hooded hooks present only in chaetigers 1 thru 3; subacicular hooks from chaetigers 10-12; branchiae simple throughout; ventral cirri pads from chaetiger 5 or 6; maxillary formula: MI 1+1, MII 7+6, MIII 7/8+0, MIV 8+9, MV 1+1 *Onuphis geophiliformis*
(Moore, 1903)
- 18a. (17a) Subacicular hooks present from chaetiger 12 (occasionally from chaetiger 10 or 11 in small specimens); branchiae simple throughout; ventral cirri pads from chaetigers 6-8; maxillary formula: MI 1+1, MII 7/9+8/10, MIII 9+0, MIV 7/8+11, MV 0; anterior chaetigers with transverse brown bands across dorsum *Onuphis affinis*
Hilbig, 1995
- 18b. Subacicular hooks present from chaetiger 16; branchiae simple throughout; ventral cirri pads from chaetiger 5; maxillary formula: MI 1+1, MII 6+9, MIII 7/8+0, MIV 6/7+8, MV 1+1; anterior chaetigers with brown spots at base of dorsal cirri and prostomial ceratophores *Onuphis pallida*
(Moore, 1911)

19a. (8b) Hoods of pseudocompound hooded hooks oblique or bluntly rounded, not projecting well beyond apical tooth; branchiae simple, pectinate or absent	-----	20
19b. Hoods of pseudocompound hooded hooks acutely pointed, projecting well beyond apical tooth; branchiae pectinate, from chaetigers 2-4 thru ~30, maximally 7 filaments		<i>Paradiopatra parva</i> (Moore, 1911)
20a. (19a) Lower fascicle of limbate chaetae simple (*check the 1st 20 chaetigers)		genus <i>Kinbergonuphis</i> - 21
20b. Lower fascicle of limbate chaetae compound (*check the 1st 20 chaetigers)		genus <i>Mooreonuphis</i> - 22
21a. (20a) Branchiae absent; pseudocompound hooded hooks thru chaetiger 3; subacicular hooks from chaetiger 13		<i>Kinbergonuphis paradiopatra</i> (Hartman, 1944)
21b. Branchiae pectinate, from chaetigers 2-4, with maximally 10 filaments; pseudocompound hooded hooks thru chaetigers 7-8; subacicular hooks from chaetigers 18-25		<i>Kinbergonuphis vexillaria</i> (Moore, 1911)
22a. (20b) Branchiae present	-----	23
22b. Branchiae absent; pseudocompound hooded hooks present on chaetigers 1 thru 4; subacicular hooks from chaetigers 11-13; large, simple median hooks absent; compound spinigers present on chaetigers 4 thru 11-13; ventral cirri pads from chaetigers 5 or 6; maxillary formula unknown.		<i>Mooreonuphis</i> sp LA1 Brantley, 1999 §
23a. (22a) Branchiae first present anterior to chaetiger 10	-----	24
23b. Branchiae first present posterior to chaetiger 10	-----	26
24a. (23a) Pseudocompound hooded hooks present up to chaetiger 4	-----	25
24b. Pseudocompound hooded hooks present to chaetigers 7-8; postsetal lobes digitate thru chaetiger 20; subacicular hooks from chaetiger 18-20; large, simple median hooks present in chaetigers 4 thru 15; compound spinigers present in chaetigers 7 thru 19; branchiae pectinate with maximum of 4 filaments; ventral cirri pads from chaetigers 10-11; maxillary formula: MI 1+1, MII 10+10, MIII 9(10)+0, MIV 6+8, MV 1+1		<i>Mooreonuphis nebulosa</i> (Moore, 1911)
25a. (24a) Branchiae simple throughout, beginning on chaetigers 5-8; pseudocompound hooded hooks present on chaetigers 1-3 or 4 (occasionally to chaetiger 6); large, simple median hooks on chaetigers 4-6; subacicular hooks present from chaetigers 9-10; compound spinigers present in chaetigers 5-9 to 11; ventral cirri pads from chaetigers 4 or 5; maxillary formula unknown.		<i>Mooreonuphis</i> sp SD2 Rowe, 1996 §
25b. Branchiae pectinate, with more than 4 filaments; large, simple median hooks absent in anterior chaetigers; ventral cirri pads from chaetiger 5; maxillary formula: MI falcada, MII 8+8, MIII 8+0, MIV 7+10, MV 1+1		<i>Mooreonuphis segmentispadix</i> (Shisko, 1981)

- 26a. (23b) Branchiae simple throughout, only a single filament ----- 27
 26b. Branchiae pectinate, from chaetigers 16-19, maximally with 2
 branchiael filaments present; pseudocompound hooded hooks
 present in chaetigers 1-4 or 5; large, simple median hooks
 present in chaetigers 3-5 or 6; ventral cirri pads form chaetiger 5;
 subacicular hooks from chaetigers 12 or 13; maxillary formula:
 MI 1+1, MII 7+7, MIII 7+0, MIV 6+10, MV 1+1 *Mooreonuphis litoralis*
 (Monro, 1933)
- 27a. (26a) Pseudocompound hooded hooks with tridentate dentition only ----- 28
 27b. Pseudocompound hooded hooks with both bidentate and
 tridentate dentition; large, simple median hooks present in
 chaetigers 4 and 5; branchiae present from chaetiger 23; ventral
 cirri pads form chaetiger 5; styles of ILA reach to chaetiger 7 *Mooreonuphis* sp SD1
 Rowe 1996 §
- 28a. (27a) Pseudocompound hooded hooks present only on chaetigers 1-3 ----- 29
 28b. Pseudocompound hooded hooks present in chaetigers 1 thru 4;
 branchiae first present from chaetigers 11-20; ventral cirri pads
 form chaetigers 4-5; subacicular hooks present from chaetigers 11-
 16; maxillary formula: MI 1+1, MII 6+6, MIII 7+0, MIV 7+8, MV
 1+1 (oval plates without dentition) *Mooreonuphis exigua*
 (Shisko, 1981)
- 29a. (28a) Ventral cirri pads from chaetiger 4; branchiae first present from
 chaetigers 29-30; subacicular hooks present from chaetigers 10-
 14; maxillary formula: MI ??, MII 7+9, MIII 9+0, MIV 7+7, MV
 1+1 *Mooreonuphis veleronis*
 (Fauchald, 1980)
- 29b. Ventral cirri pads from chaetiger 5; branchiae first present from
 chaetigers 18-22; subacicular hooks present from chaetigers 14-
 16; maxillary formula: MI 1+1, MII 6+6, MIII 8+0, MIV 6+10, MV
 1+1 *Mooreonuphis stigmatis*
 (Treadwell, 1922)

Other Onuphidae reported from the region but not by SCAMIT

- Anchinothria hiatidentata* (Moore, 1911) (California)
Hyalnoecia stricta Moore, 1911 (southern California)
Kinbergonuphis microcephala (Hartman, 1944) (Punta Cholla, Mexico)
Mooreonuphis bajacalifornica de León-Gonzalez, 1988 (western Mexico)
Mooreonuphis cirrata (Hartman, 1944) (Gulf of California, Mexico)
Mooreonuphis elsiae de León-Gonzalez, 1994 (Baja California, Mexico)
Mooreonuphis guadalupensis (Fauchald, 1968) (Guadalupe Island)
Mooreonuphis microbranchiata (Fauchald, 1968) (Guadalupe Island)
Onuphis farallonensis Hobson, 1971 (central California)
Onuphis mexicana (Fauchald, 1968) (Baja California, Mexico)

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Version History

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| 1.0 Key Created | November, 2021 - BMH |
| 1.1 Added Onuphidae from region not reported by SCAMIT. Added character state table. | November, 2021 - BMH |
| 1.2 Updated couplet for <i>Diopatra tridentata</i> & <i>Diopatra splendidissima</i> | December, 2021 - BMH |
| 2.0 Updated name of <i>Onuphis</i> sp LA1 to <i>Onuphis</i> sp B SCAMIT, 2023 §. Removed character state table and uploaded to SCAMIT toolbox as a standalone file for better visibility. Removed DRAFT designation. | April, 2023 - BMH |