

SOUTHERN CALIFORNIA ASSOCIATION OF MARINE
INVERTEBRATE TAXONOMISTS NEWSLETTER

July, 1982

Vol. 1, No. 4

Next Scheduled Meeting: August 16, 1982

Place: Marine Biological Consultants
947 Newhall Street
Costa Mesa, CA 92627

Guest Speakers: Dave Montagne on Phyllodocids
(postponed from July meeting
due to Dave's injury from a
rockfish). ← ?

Fred Pilz on Typosyllis

Specimen Exchange Group: Phoxocephalidae

Topic Taxonomic Group: Hesionidae, Pilargidae, Typosyllis

MINUTES FROM JULY 19, 1982:

Charter

The Charter was discussed and generally was acceptable. Three areas were modified at the meeting.

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difficult →
Thought VSC was
choice?
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The position of Curator was changed from an elected position to an appointed office. A provision was added that curators should house the collection at the institute where they are employed and to move the collection upon change of curators.

- The definition of charter membership was changed to include all persons who join in the first year. (Motion by Don Cadien and Ann Martin, second by Larry Lovell, passed by 2/3 majority.)
- Elections for officers will take place in April, the first official election will be in April, 1983 when current officers will run as incumbents. (Motion by Don Cadien, second by Don Maurer, passed by 2/3 majority.)

After the meeting was adjourned, more changes to the charter were brought up within the Charter Committee. These will be discussed at the August meeting before a vote of final acceptance will be held.

Karen Green of *Pholoides aspera*

Karen looked at all 20 specimens of *P. aspera* from the exchange. She found that setal types were the same in all specimens and that *P. aspera* is a valid name for the organism.

Literature Donations

Because the literature distributed from Rick Klink's collection was much appreciated and successfully distributed, future literature donations will be auctioned as fund raising efforts. (Motion by Don Cadien, second by Susan Hamilton and John Shisko, passed by 2/3 majority.)

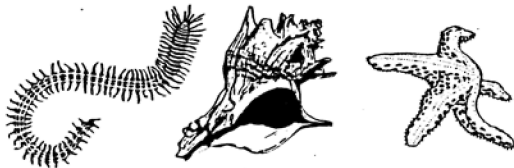
Literature Committee

Leslie Harris has joined the Literature Committee to fill out the membership of three along with John Dorsey and Don Cadien.

Logo

Decision on logo approval was postponed a month in order to give more members a chance to submit art work. Two examples are given below. Everyone is welcome to participate. If you cannot attend the meeting just send a copy to Ann Martin.

Southern California Association of



Marine Invertebrate Taxonomists



Helpful Hints

A reference that should be helpful to polychaete people:

Mikkelsen, Paul S. and Robert W. Virnstein. 1982. An illustrated glossary of polychaete terms. Harbor Branch Foundation, Inc., Technical Report No. 46, R.R. 1, Box 196, Fort Pierce, Florida.

Membership

Membership is going very well. There are 35 members as of July 28. If you have not sent in your application yet, please do so. It is important because only members will receive this Newsletter and other notices of SCAMIT activities.

APPLICATION FOR MEMBERSHIP
TO SOUTHERN CALIFORNIA ASSOCIATION OF MARINE INVERTEBRATE TAXONOMISTS

June 1982 - May 1983 membership fee is \$5.00. Make checks payable to SCAMIT and mail to Ann Martin at 10844 Ellis Avenue, Fountain Valley, CA. 92708.

Type of membership is:

CHARTER () PARTICIPATING () CORRESPONDENT ()

VOUCHER SHEET

IDENTIFIED AS: Arctonoe vittata (Grube, 1855)

SPECIMEN CODE: AHF 3

KEYS USED: Hartman, O. 1968 (Atlas) - p. 49
Fauchald, K. 1977 - p. 59

OTHER TEXTS CONSULTED: Banse, K.: K. Hobson. 1974 - p. 26
Pettibone, M.H. 1953 - p. 57
Skogsberg, T. 1942 - p. 489
Ushakov, P.V. 1965 - p. 113

IMPORTANT CHARACTERS: Elytra greater than 21 pairs, leaving middorsum bare; two types of neurosetae; superior setae blunt with bifid or notched tips, interior setae falcate; segments 7-8 with dark brown dorsal band.

RELATED SPECIES AND CHARACTER DIFFERENCES: Arctonoe fragilis and A. pulchra both have only one type of neurosetae, falcate; A. fragilis has elytra with frilled posterior margins; elytra of A. pulchra and A. vittata similar; slightly wavy at margins; no brownish band across dorsum on A. fragilis and A. pulchra.

VARIABILITY: Degree of pigmentation can vary from dark brown to nearly matching dorsum color.

COMMON SYNONYMS: Polynoe vittata Grube, 1855

AIDS TO IDENTIFICATION: Dorsal pigment band can usually be seen without a scope; if band is faint, prepare parapodium to check neurosetae.

STATION DATA: AHF N7420

VOUCHER SHEET

IDENTIFIED AS: Halosydna latior Chamberlin, 1919.

SPECIMEN CODE: AHF 4

KEYS USED: Hartman, O. 1968 (Atlas)-p. 67
Fauchald, K. 1977 - p. 59.

OTHER TEXTS CONSULTED: Chamberlin, R.V. 1919. - p. 1

IMPORTANT CHARACTERS: Elytra with heavy lateral fringe; simple neurosetae, body depressed; 18 pairs elytra.

RELATED SPECIES AND CHARACTER DIFFERENCES: Halosydna brevisetosa with vivid pigmentation on anterior segment; elytra with sparse marginal fringe; noticeable distal swelling on dorsal cirri; H. johnsoni has bifid neurosetae.

STATION DATA: AHF N3761

COMMENTS: There are problems with the definition of "heavy" or "slight" elytral fringe, in distinguishing a pale H. brevisetosa from a H. latior; and in the identification of juvenile Halosydna.

VOUCHER SHEET

IDENTIFIED AS: Lagisca pedroensis Hartman, 1960

SPECIMEN CODE: SCCWRP 1

KEYS USED: Hartman, O. 1968 (Atlas) - p. 107
Fauchald, K. 1977 - p. 57

OTHER TEXTS CONSULTED: Hartman, O.; J.L. Barnard. 1960 - p. 80

IMPORTANT CHARACTERS: Ventral prostomial antennae; 15 pairs elytra; posterior setigers not covered by elytra; elytra with marginal fringe; notosetae coarser than neurosetae; neurosetae of two types; superior ones bifid with widely spaced teeth and the crotch with rugosity; inferior ones distally entire.

RELATED SPECIES AND CHARACTER DIFFERENCES: L. lamellifer and L. yokohamiensis both have two types of neurosetae, however L. pedroensis has a widely spaced distal tooth with rugosity in the crotch and both L. lamellifer and L. yokohamiensis have a narrow gap between the distal tooth and shaft. The elytra of L. lamellifer have drop-like papillae on the posterior half; L. pedroensis does not. L. yokohamiensis has elytra uniformly covered with horny papillae; L. pedroensis has elytra which appear smooth, with uneven distribution of two types of papillae.

VARIABILITY: The range in the number of segments can vary in specimens. Large specimens with greater than 50 segments may key to Polynoe. Juvenile specimens do not show the same number of exposed posterior setigers as larger specimens; this could cause some confusion with specimens of Harmothoe.

STATION DATA: SCCWRP 5-8. Orange County Deep Survey 118° 7' 2" W. 33° 27' 1" N. 627m trawl 26 January 1982. Soft bottom.

COMMENTS: The species key in Hartman, 1968 implies that pedroensis is the only Lagisca with two types of neurosetae, however, the description for L. lamellifer in Hartman (1968, p. 103) states "neurosetae longest, with transverse rows of spines (fig. 5); others increasingly shorter, distally bifid (fig. 6) or entire". The description for L. yokohamiensis in Hartman (1968, p. 109) states "neurosetae with a prominent accessory tooth (fig. 2) and 20 to 30 pairs of pectinated plates subdistally; inferior most neurosetae lack the accessory tooth". Izuka (1912) also describes two types of neurosetae for Harmothoe yokohaminensis.

VOUCHER SHEET

IDENTIFIED AS: Pholoides aspera (Johnson, 1897)

SPECIMEN CODE: SCCWRP 2

KEYS USED: Hartman, O. 1968 (Atlas) - p. 147
Fauchald, K. 1977 - p. 66

OTHER TEXTS CONSULTED: Banse, K.; K.D. Hobson. 1974 - p. 33
Hartman, O.; K. Fauchald. 1971. - p. 29
Johnson, H.P. 1897. - p. 184

IMPORTANT CHARACTERS: Elytra on alternate segments, each with fringe, concentric rings often with central dark spot; single median antenna, filiform and fimbriated at tip; dorsal cirri fimbriated at tip, present only on first setiger; notosetae simple; neurosetae composite dentate falcigers.

RELATED SPECIES AND CHARACTER DIFFERENCES: P. tuberculata (Hartmann-Schroder, 1965) Apparently identical but not synonymized with P. aspera. P. bermudensis Hartman & Fauchald, 1971; 30-32 segments instead of 35-38; neurosetae falciger smooth, instead of dentate. Phloe aspera has geniculate superior notosetae, prostomium with single median antenna; the median antenna is not fimbriated and the elytra have no concentric rings and they are pale white with sparse marginal papilla.

COMMON SYNONYMS: Peisidice aspera Johnson, 1897.

AIDS TO IDENTIFICATION: Fimbriated median antenna, concentric rings on elytra.

STATION DATA: SCCWRP 8.3-60 Santa Monica Bay
118° 29' 5" W. 33° 52' 2" N. 9 May 1979
1.0mm screen - soft-bottom

COMMENTS: Fauchald (1977) states "fringed elytra alternate with dorsal cirri in all setigers"; Johnson (1897) specifically states "no dorsal cirri", only one median antenna and one pair peristomial cirri; Hartmann and Fauchald (1971) state "dorsal cirri and branchia are absent", "parapodia of first segment are directed forward, at sides of prostomium; each has a pair of long dorsal cirri resembling the median prostomial antenna".

VOUCHER SHEET

IDENTIFIED AS: Stenelais tertiaglabra Moore, 1910

SPECIMEN CODE: OCSD 2

KEYS USED: Hartman, O. 1968 (Atlas) p. 165
Fauchald, K. 1977 - p. 70

OTHER TEXTS CONSULTED: Moore, J.P. 1910. - p. 395
Pettibone, M.H. 1971a. 1971b.
Banse, K.: K.D. Hobson. 1974 - p. 35
Hartman, O. 1939 - p. 65 (S. hancocki)

IMPORTANT CHARACTERS: Ventral surface smooth; triangular elytral microtubercles encrusted with extracuticular rusty material; neurosetae with long, slender, minutely bidentate falcigers with few stout bifid falcigers in median parapodia; body pale except for anterior portion of elytra.

RELATED SPECIES AND CHARACTER DIFFERENCES: S. berkeleyi; ventral surface densely papillated, elytra pale to rusty brown; S. verruculosa; neurosetae with multi-articulated simple setae, elytra with small wart-like tubercles on dorsum, elytra with fingerlike palpodes on margin; S. fusca; elytra surface with conical microtubercles, mottled with dark pigment.

STATION DATA: 60m, silty-sand 4 February 1980
33° 34' 46" 118° 01' 30"

VOUCHER SHEET

IDENTIFIED AS: Stenelabella uniformis Moore, 1910

SPECIMEN CODE: OCSD 1

KEYS USED: Hartman, O. 1968 (Atlas) p. 169
Fauchald, K. 1977. p. 69

OTHER TEXTS CONSULTED: Moore, J.P. 1910 - p. 391
Pettibone, M.H. 1969 - p. 431
Hartman, O. 1939 - p. 69

IMPORTANT CHARACTERS: Approximately the first 10 elytra with mottled rusty-brown pigment, the rest colorless; stout, short-appendaged, compound neurosetae; notopodial spinning glands emergent with silky thread; elytra lack fringe, except first pair; first pair elytra orbicular, with the rest; ctenidia between setigers 2:3, with additional ctenidia ventrally on setiger 3.

RELATED SPECIES AND CHARACTER DIFFERENCES: S. ehlersi (Horst, 1916) Pettibone, 1969, anterior elytra banded, not mottled; middle and posterior elytra with deeply sinuous external margins; ctenidia on dorsal bases of tentacular parapodia of setiger 1, none between setigers 2-3. (Dutch East Indies, South Africa.)

AIDS TO IDENTIFICATION: Only sigalionid in California with spinning glands.

STATION DATA: 60m, silty-sand 13 July 1978
33° 34' 46" 118° 01' 30"

Some Taxonomic Literature on the Polychaetes from the Eastern Pacific Region: Families Amphinomidae, Phyllodocidae, Euprosinidae, Hesionidae, Pilargiidae, and Genus Typosyllis (All literature containing the original descriptions of genera and species recorded from Southern California has been included.)

Banase, K. 1963. Polychaetous annelids from Puget Sound and the San Juan Archipelago, Washington. Proc. Biol. Soc. Wash. 76: 197-208.

Includes description of the new subspecies Eteonides coineaui difficilis.

Banase, K. 1972. On some species of Phyllodocidae, Syllidae, Nephtyidae, Goniadidae, Apistobranchidae, and Spionidae from the northeast Pacific Ocean. Pac. Sci. 26: 191-222.

Eteone pacifica Hartman and E. tuberculata Treadwell are re-described; additions to descriptions are given for Eulalia (Eulalia) quadrioculata Moore, Syllis (Typosyllis) fasciata Malmgren, S. (Typosyllis) pulchra Berkeley & Berkeley, S. (Typosyllis) adamantea adamantea (Treadwell), and S. (Typosyllis) stewarti Berkeley & Berkeley.

Banase, K. 1973. The ventral parapodial cirrus of the benthic Phyllodocidae (Polychaeta), with special reference to Clavadoce Hartman and Bergstroemia Banase. J. Nat. Hist. 7: 683-389.

Discussion of large reniform ventral cirri as generic characters; new diagnosis for Clavadoce; Bergstroemia elevated to rank of genus.

Banase, K. and K.D. Hobson. 1968. Benthic polychaetes from Puget Sound, Washington, with remarks on four other species. Proc. U.S. Natn. Mus. 125: 1-53.

Accounts of Eulalia (Hypoeulalia) bilineata (Johnston)?, E. (Eulalia) levicornuta Moore, E. (Pterocirrus) parvoseta, n.sp., Phyllodoce (Anaitides) nr. multiseriata Rioja, P. (Anaitides) williamsi (Hartman), Gyptis brevipalpa (Hartmann-Schroder), Micropodarke dubia (Hessle), Sigambra tentaculata (Treadwell), and Syllis (Typosyllis) harti Berkeley & Berkeley.

Bergstrom, E. 1914. Zur Systematik des Polychaeten Familie per Phyllodociden. Zoologiska Bidrag fran Uppsala, 3: 37-224, 81 figs.

Monograph on the family, including a extensive discussion of the genera, descriptions of the new genera Austrophyllum and Steggoa.

Berkeley, E. and Berkeley, C. 1938. Notes on polychaeta from the coast of western Canada. Ann. Mag. Nat. Hist. ser. 11, Vol. 1: 33-49, 12 figs.

Syllis pulchra and Syllis spenceri (now synonymized w/Typosyllis adamantea Treadwell, 1914) are described.

- Berkeley, E. and Berkeley, C. 1941. On a collection of polychaeta from southern California. Bull. So. Calif. Acad. Sci., 40:16-60, 1 pl.

Refers to 4 amphinomids & euphosinids, 2 phyllodocids, 3 species of Typosyllis, and 1 hesionid, plus the description of Loandalia fauveli.

- Berkeley, E. and Berkeley, C. 1948. Canadian Pacific Fauna. 9. Annelida. 9b(1) Polychaeta Errantia. Uni. Toronto Press, Toronto, Canada, 100 pp.

Discussions of 3 species of Euphosine, 12 phyllodocids, 2 pilargrids, and 6 species of Typosyllis also found in southern California.

- Blake, J.A. and C.P. Walton. 1977. New species and records of polychaeta from the Gulf of the Farallones, California. pp. 307-321. In D.J. Reish and K. Fauchald (Eds), Essays on Polychaetous Annelids in Memory of Dr. Olga Hartman. Allan Hancock Foundation, University of Southern California, Los Angeles, Ca.

Phyllodoce hartmanae and Typosyllis farallonensis are newly described.

- Chamberlin, R.V. 1919. The Annelida Polychaeta. Mem. Mus. Comp. Zool., Harvard, 48:1-514.

Report on polychaetes from Pacific Mexico south to the Galapagos Islands. Includes type description of Chloeia entypa, an account of Eurythoe complanata (Pallas), and the description of the genus Synelmis.

- Chamberlin, R.V. 1919. New polychaetous annelids from Laguna Beach, California. J. Entomol. Zool. Pomona Coll., 11:1-23.

Includes description of Hesperophyllum tectum, n.g., n.sp., Steggoa gracilor n.sp., Sige californiensis n.sp., Anaitides heterocirrus n.sp., Typosyllis bella n.sp., Pionosyllis pigmentata n.sp. (now Typosyllis), Pionosyllis lucida n.sp. (now Typosyllis), Hesperalia californiensis n.sp. (?Odontosyllis), Hesperalia nans n.sp. (?Odontosyllis), and Campesyllis minor n.g., n.sp.

- Claparède, E. 1868. Les Annélides Chétopodes du Golfe de Naples. Mem. Soc. Phys. Genève, 19(2):313-584, 16 pls.

Includes the new genus Pterocirrus.

- Czerniavsky, V. 1882. Materialia ad zoographiam Ponticam comparatam. Bull. Soc. Imp. Nat. Moscow, 57:146-198.

Description of the genus Anaitides.

- Ditlevsen, H. 1917. Annelids. I. Danish Ingolf-Expedition, 4(4):1-71, 6 pls. 24 figs.

Report on polychaetes from Greenland, Iceland and the Faroe Islands, Includes discussion of Phyllodoce groenlandica Oersted and Eteone longa (Fabricius).

Dorsey, J.H. 1978. A first report of Heteropodarke heteromorpha Hartman-Schroder, 1962 (Polychaeta: Hesionidae) from California. Bull. So. Calif. Acad. Sci. 77:82-84.

The genus Heteropodarke is amended plus additions to the description of H. heteromorpha.

Ebbs, N.K. Jr. 1966. The coral-inhabiting polychaetes of the northern Florida Reef Tract. Part I. Aphroditidae, Polynoidae, Amphinomidae, Eunicidae, and Lysaretidae. Bull. Mar. Sci. 16:485-555.

An extensive account of Eurythoe complanata is given.

Ehlers, E. 1864. Die Borstenwürmer, nach systematischen und anatomischen Untersuchungen dargestellt. Leipzig, pp. 1-268.

Includes description of Orseis, new genus.

Emerson, R.R. and K. Fauchald. 1971. A revision of the genus Loandalia Monro with description of a new genus and species of pilgariid polychaete. Bull. So. Calif. Acad. Sci., 70(1):18-22.

Maintains generic status of Ancistargis Jones, describes Parandalia ocularis n.g., n.sp., and transfer Loandalia fauveli to Parandalia.

Essenberg, C. 1917. New species of Amphinomidae from the Pacific Coast. Univ. Calif. Publ. Zool. 18:61-74.

Presents general description of the family and new species: Euphrosyne calypta, E. multibranchiata, E. kylossetosa, and Eurythoe spirocirrata.

Fabricius, O. 1780. Fauna Groenlandica, systematice sistens, Animalia Groenlandica occidentalis hactenus indagata, quod nomen specificum, triviale, vernaculumque; synonyma auctorum plurium, descriptionem, locum, victum, generationem, mores, usum, capturamque singuli, prout detegendi occasio fuit, maximaque parti secundum proprias observationes, Hafniae, XVI and 452 pp.

Descriptions of Nereis flava and Nereis longa (both now Eteone)

Fauchald, K. 1972. Benthic polychaetous annelids from deep water off western Mexico and adjacent areas in the eastern Pacific Ocean. Allan Hancock Monogr. Mar. Biol. 7:575 pp., 69 pls.

Geographic monograph with accounts of 1 new amphinomid, 1 euphrosinid, 5 new and 1 old phyllodocids, including Austrophyllum exsilium, and 4 new pilargiids, including Sigambra setosa.

Fauchald, K. 1977. The Polychaete Worms. Definitions and Keys to the orders, families and genera. Nat. Hist. Mus. Los Angeles Co., Sci. Ser. 28:1-190.

Fauvel, P. 1923. Polychaetes errantes. Faune de France, 5:1-488.

Fauvel, P. 1932. Annelida polychaeta of the Indian Museum, Calcutta. Mem. Indian Mus. Calcutta, 12(1):1-262, 9 pls., 40 figs.

Description of Pseudeurythoe new genus

Fauvel, P. 1934. Sur quelques Syllidiens du Japon. Annot. Zool. Japon, 14(3):301-316, 2 figs.

Grube, A.-E. 1860. Beschreibung neuer oder wenig bekannter Anneliden. Beitrag: Zahlreiche Gattungen. Arch. Naturg. Berlin, 26:71-118, 3 pls.

Description of Syllis variegata (now Typosyllis)

Grube, A.-E. 1863. Beschreibung neuer oder wenig bekannter Anneliden. Beitrag: Zahlreiche Gattungen. Arch. Naturg. Berlin, 29:37-69, 3 pls.

Description of Syllis hyalina (now Typosyllis)

Gustafson, G. 1930. Anatomische Studien über die Polychaeten Familien Amphinomidae und Euphrosynidae. Zool. Bidrag Uppsala, 12:305-471, pls. 1-36, 64 figs.

Monograph, primarily on anatomy, also has generic description of Pareurythoe.

Hartman, O. 1936. Nomenclatorial changes involving California polychaete worms. J. Wash. Acad. Sci., 26(1):31-32.

Eteone pacifica is proposed for E. maculata Treadwell, preoccupied.

Hartman, O. 1936. A review of the phyllodocidae (Annelida Polychaeta) of the coast of California, with descriptions of nine new species. Univ. Calif. Publ. Zool. 41:117-132.

A key to 29 species from California is given. New species include Anaitides williamsi, Clavadoce splendida (also new genus), Eteone dilatata, E. lighti, E. californica, E. balboensis, Eulalia avisuliseti, Sige montereyensis, and Steggoa californiensis.

Hartman, O. 1939. New species of polychaetous annelids from southern California. Allan Hancock Pac. Exped. 7(2):157-172, 2 pls.

Type description of Hesionella mccullochae, new genus and species.

Hartman, O. 1940. Polychaetous annelids. Part II. Chrysopetalidae to Goniadidae. Allan Hancock Pac. Exped. 7:173-286.

Report on polychaetes from tropical and subtropical eastern Pacific Ocean; includes families Amphinomidae (7 species), Euphrosynidae (3 species), and Hesionidae (3 species).

Hartman, O. 1945. The marine annelids of North Carolina. Bull. Duke Univ. Mar. Sta., no. 2:1-51, 10 pls.

Description of Sigambra bassi.

Hartman, O. 1947. Polychaetous annelids. Part VIII. Pilargiidae. Allan Hancock Pac. Exped. 10:483-522.

Monograph on the family Pilargiidae; keys to genera and species; Pilargis maculata, Ancistrosyllis bassi, and Loandalia americana are newly described.

Hartman, O. 1948. The Polychaetous Annelids of Alaska. Pac. Sci., 2(1):3-58.

Report includes information on 5 phyllodocids and 3 species of Typosyllis found in southern California.

Hartman, O. 1960. Systematic account of some marine invertebrate animals from the deep basins off southern California. Allan Hancock Pac. Exped., 22:69-214, 19 pls.

Describes Pilargis hamatus (sic), (now Ancistargis) and Euprosine paucibranchiata, plus new records for Pseudeurythoe ambigua (Monro).

Hartman, O. 1961. Polychaetous annelids from California. Allan Hancock Pac. Exped., 25:226 p., 34 pls.

Type descriptions of Orseis lagunae, Amphiduros pacificus, Oxydromus arenicolus n. ssp. glabrus (now Gyptis brevipalpa (Hartman-Schroder)) and Oxydromus brunnea (now Gyptis brunnea), plus accounts of Ophiodromus pugettensis (Johnson) Eumida bifoliata (Moore) new combination, and new records for Eulalia viridis (Linnaeus) and Anaitides multiseriata Rioja.

Hartman, O. 1963. Submarine canyons of southern California, 3: Systematics: Polychaetes. Allan Hancock Pac. Exped., 27:1-93, 4 figs.

Includes description of Ancistrosyllis breviceps.

Hartmann-Schröder, G. 1958. Einige Polychaeten aus dem Küstengrundwasser der Bimini-Inseln (Bahamas). Kieler Meeresforsch., 14:233-240.

Includes generic description of Hesionura.

Hartmann-Schröder, G. 1959. Zur Ökologie der polychaeten des mangrove-estero-gebietes von El Salvador. Beiträge zur Neotropischen Fauna, 1(2):69-183.

Descriptions of Oxydromus brevipalpa (now Gyptis brevipalpa) and Loandalia gracilis (possibly a synonym of Parandalia fauveli (Berkeley and Berkeley)).

Hartmann-Schröder, G. 1962. Zweiter Beitrag zur Polychaetenfauna von Peru. Kieler Meeresforschungen, 18(1):109-147.

Type description of Heteropodarke heteromorpha, new genus and species.

Hartmann-Schröder, G. 1965. Zur Kenntnis der eulitoralischen polychaetenfauna von Hawaii, Palmyra und Samoa. Naturwiss. Vereins Hamburg, Abh. Verh., N.F.9:81-161, 85 figs.

Has brief account of Typosyllis hyalina (Grube)

Hessle, C. 1925. Einiges über die Hesioniden und die Stellung der Gattung Ancistrosyllis. Ark. Zool., 17:1-37.

Describes Kefersteinia dubia (now Micropodarke dubia).

Imajima, M. 1966. The Syllidae (Polychaetous Annelids) of Japan. (V) Syllinae (2) . Publ. Seto Mar. Biol. Lab. 14:253-294.

Descriptions are given for 15 species of Typosyllis of which T. hyalina, T. alternata, and T. variegata are common to both Japan and North America.

Imajima, M. and O. Hartman. 1964. The polychaetous annelids of Japan. Part 1. Allan Hancock Fdn. Pub., Occas. Pap. 26:1-237, 35 pls.

Transfers Kefersteinia dubia Hessle into Micropodarke, discusses Ophiodromus pugettensis (Johnson), Typosyllis adamantea (Treadwell), Typosyllis fasciata (Malmgren), Typosyllis variegata (Grube), and describes Typosyllis aciculata orientalis n. ssp. Information on Eurythoe complanata (Pallas), Anaitides madeirensis (Langerhans), Anaitides groenlandica (Oersted), Eteone longa (Fabricius), Eulalia bilineata (Johnston) E. viridis (Linnaeus), Eumida sanguinea (Oersted) and Genetyllis castanea (Marenzeller).

Izuka, A. 1912. The errantiate polychaeta of Japan. J. Coll. Sci. Tokyo, 30(2):1-262, 24 pls.

Discussions of Phyllodoce groenlandica Oersted, Carobia castanea Marenzeller (now Genetyllis castanea), Eumida sanguinea (Oersted) and Eulalia viridis (Müller).

Johnson, H.P. 1897. A preliminary account of the marine annelids of the Pacific coast, with descriptions of new species. Euphrosynidae, Amphinomidae, Palmyridae, Polynoidae and Sigalionidae. Proc. Calif. Acad. Sci., Zool., 1:153-190, pls. 5-10.

Account on mostly California material, including new species Euphrosyne (sic) aurantiaca, E. arctia and Eurythoe californica (now Pareurythoe).

Johnson, H.P. 1901. The Polychaeta of the Puget Sound Region. Proc. Boston Soc. Nat. Hist., 29:381-437, 19 pls.

Has description of Podarke pugettensis, new species.

Johnston, G. 1840. Miscellanea Zoologica. The British Nereides. Ann. Mag. Nat. Hist. London, ser. 1, vol. 4:224-232, pls. 6-7.

Includes description of Phyllodoce bilineata (now Eulalia)

Jones, M.L. 1961. Two new polychaetes of the families Pilargiidae and Capitellidae from the Gulf of Mexico. Amer. Mus. Nov., 2049:1-18.

Description of Ancistargis, new genus.

Kinberg, J.G.H. 1857. Nya släkten och arter af Annelider. Forh. Oefv. Vet. Akad. Stockholm, 14:11-14.

Description of new genus Eurythoe.

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