

NMFS Scientific Reports Published

NOAA Technical Report NMFS Circular 402. Moser, H. Geoffrey, Elbert H. Ahlstrom, and Elaine M. Sandknop. "Guide to the identification of scorpionfish larvae (Family Scorpaenidae) in the eastern Pacific with comparative notes on species of *Sebastes* and *Helicolenus* from other oceans." April 1977. 71 p. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

ABSTRACT

Developmental stages of 51 species or forms of scorpionfishes are described and illustrated in this identification guide. Thirty-eight are from the eastern Pacific and represent six of the eight scorpaenid genera known from that region—*Sebastes*, *Sebastolobus*, *Scorpaenodes*, *Scorpaena*, *Pontinus*, and *Ectreposebastes*. *Sebastes* is the most thoroughly treated; developmental series of six species from the eastern Pacific are described and illustrated; pigment patterns of early

larvae of 33 species are given and 23 of these are illustrated. Larval series of three North Atlantic species of *Sebastes* are described and illustrated as is a series of *Sebastes* from off Chile; in addition, the published information on eight northwestern Pacific species is summarized and discussed in relation to the eastern Pacific and Atlantic species. The other genera are represented by one or two species. Since larvae of the eastern Pacific species of *Helicolenus* were not available, a larval series of *H. dactylopterus* from the Atlantic are described for comparative purposes. Larvae of the eighth eastern Pacific scorpaenid genus, *Trachyscorpia*, are unknown.

Two dichotomous keys to the eastern Pacific genera are included, one for the early larval stages up to the initiation of notochord flexion and one for postflexion larvae. In the text, a summary of the literature and definitive characters is followed by the descriptive accounts of the species. Each species account contains a literature summary, description, set of illustrations, and information on distribution and abundance.

South Africa Fishery Leaflet Is Printed

A new Foreign Fisheries Leaflet, 77-4, "Southern Africa's Fishing Industry, 1975-76" has been published by the NMFS Branch of International Fisheries Analysis. The 12-page leaflet contains information on catch, quotas, boat-building trends, processing developments, new vessels, the rock lobster industry, whaling, and other subjects. The report was written by Michael Stuttaford, the editor of the *South African Shipping News and Fishing Industry Review*, and was originally published in the "South African Fishing Industry Handbook and Buyers' Guide, 1976-77." A copy can be requested from: Services Branch, D822, ESIC/NOAA, WSC4, 6009 Executive Blvd., Rockville, MD 20852. Please enclose two self-addressed labels to facilitate mailing.

NOAA Technical Report NMFS SSRF-710. Wing, Bruce L., and Nancy Barr. "Midwater invertebrates from the southeastern Chukchi Sea: Species and abundance in catches incidental to midwater trawling survey of fishes, September-October 1970." April 1977. 43 p. For sale by the Superintendent of Documents, U.S. Government Printing office, Washington, DC 20402.

ABSTRACT

Midwater invertebrates were collected in the southeastern Chukchi Sea. A 1.8-m Isaacs-Kidd midwater trawl was used at 20 stations to collect 81 semiquantitative samples; a 3-m otter trawl was used at one station to collect two qualitative samples. Data tables list the species col-

lected and their numbers, size range, and displacement volumes for the midwater trawl stations and a species list only for the otter trawl station. One hundred three species of invertebrates were identified from the midwater trawl samples, and 33 species were identified from the otter trawl samples. Amphipods were the most diverse group (40 species) and decapod shrimps the next most diverse (14 species). Numbers of species in a sample varied from 4 to 40 (mean 17). After removal of jellyfishes, the most important contributors in numbers and volume to the catches were euphausiids and mysids.

Bulletins Announced By Canadian Fishery Agency

Publication of three new Bulletins of the Fisheries Research Board of Canada have been announced by the Fisheries and Marine Service. They include: **Revision of *Hydrobaenus*, *Trissocladius*, *Zalutschia*, *Paratrissocladius*, and some related genera (Diptera: Chironomidae)**, Bulletin 195; **Taxonomic studies on Chironomidae: *Nanocladius*, *Pseudochironomus*, and the *Harnischia* complex**, Bulletin 196; and **Female genitalia in Chironomidae and other Nematocera: morphology, phylogenies, keys**, Bulletin 197. All were authored by Ole A. Saether of the Fisheries and Marine Service's Freshwater Institute, Winnipeg, Manitoba.

In addition to the taxonomic revisions, Bulletin 195 presents ecological comments and distribution records and discusses methodology and morphology. Cost is \$7.00 in Canada; \$8.40 elsewhere. Bulletin 196, which includes keys for imagines, pupae, and larvae of the genus *Nanocladius*, costs \$5.00 in Canada and \$6.00 elsewhere. Bulletin 197, which presents keys and diagnoses to subfamilies, tribes, genera, and some species of some genera of female Chironomidae, costs \$6.00 in Canada and \$7.20 elsewhere. The books can be ordered from: Printing and Publishing, Supply and Services Canada, Ottawa, Canada K1A 0S9.