Who's Working On Echinoderm Fisheries?

Sea urchins and sea cucumbers are valued ingredients of Chinese and Japanese cuisine. Echinoderm fisheries are most developed in the southeast, south, and northwest Pacific areas. Major producers of dried sea cucumber or bêche-de-mer are the Philippines and Indonesia. Major markets are Hong Kong, China, Japan, and Singapore.

For this article, the Aquatic Sciences and Fisheries Abstracts (ASFA) covering the period from 1971 to 1988, the ICLARM library and professional staff collections were used in the literature survey.

Half of the 177 articles found were published in the last decade. The annual average number of publications was less than one before 1970, and 64, then 93 for the 1970s and 1980s respectively. The earliest article was dated 1893.

Growth over time

The late 1930s saw a small boom in publications. Publications were sporadic until the late 1960s but increased during the 1970s, and peaked in 1979, although more articles were published annually in the 1980s.

Publication types

Seventy per cent of the items were published in journals, 15% as reports by agencies on ongoing projects, and the remainder as books, handbooks/fieldguides, newsletters and theses. English was used in 76% of the papers, Japanese in 15%, and eight other languages in the rest.

Areas of research

Seven broad groups could be identified among the publications. These are biology, fisheries, general discussions, fisheries development, processing, resource surveys, and others (culture, marketing, resource management and economics) (Fig. 1). Biology and fisheries dominated early studies. Not until the 1970s did other investigations have substantial volume.

Recent papers


Here are some institutions involved in sea cucumber fisheries: The South Pacific Commission (S.P.C.) at B.P. D5 Nouméa Cedex, New Caledonia; Office de la Recherche Scientifique et Technique Outre-Mer, Centre de Nouméa, (ORSTOM), B.P. A5, Nouméa, New Caledonia; Laboratoire d'Océanographie Biologique, Université de Bretagne Occidentale, 6, Avenue Le Gorgeu, 29 287 Brest Cedex, France (contact: C. Conand). For urchins, Department of Fisheries and Oceans, Fisheries Branch, Stevenson Point Road, Nanaimo, British Columbia, V9R 5K6, Canada, (contact: R. Harbo, Shellfish Management Biologist); Departamento Biologo Ambiental y Poblacion, Pontificia Universidad Catolica de Chile, Casilla 114-D, Santiago, Chile (contact: J. Castilla); and the Faculty of Fisheries, Hokkaido University, Nishi 5, Kita 8, Kita-ku, Sapporo 060, Japan (contact: K. Amaoka).

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C. Conand will organize, in collaboration with the S.P.C. a "Bêche-de-mer Newsletter". Contact her for details.

ICLARM can provide more information on echinoderm fisheries. Write to Selective Fisheries Information Service, ICLARM, MC P.O. Box 1501, Makati, Metro Manila, Philippines, for details and costs involved.

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