FOREWORD

Foreword
Carles Bas, José Juan Castro and José Mª Lorenzo
Sci. Mar. 59(3-4): 203-204

RESEARCH ARTICLES

Biological characteristics of middle-sized pelagic fishes
Adam Ben-Tuvia
Sci. Mar. 59(3-4): 205-209

Geographic variations in sexual maturity of the horse mackerel, Trachurus trachurus, in the Galician and Cantabrian shelf
P. Abaunza, A.C. Fariña and P. Carrera
Sci. Mar. 59(3-4): 211-222

Infestation by larvae of Anisakis simplex (Nematoda: Ascaridata) in horse mackerel, Trachurus trachurus, and Atlantic mackerel, Scomber scombrus, in ICES Divisions VIIIb, VIIIc and IXa (N-NW of Spain)
P. Abaunza, B. Villamor and J.R. Pérez
Sci. Mar. 59(3-4): 223-233

Population biology of the roudi escolar Promethichthys prometheus (Gempylidae) off the Canary Islands
J.M. Lorenzo and J.G. Pajuelo
Sci. Mar. 59(3-4): 235-240
Oceanic redfish (*Sebastes mentella*) in the Irminger Sea and adjacent waters
J. Magnusson and J.V. Magnusson
Sci. Mar. 59(3-4): 241-254

Comparison of seasonal variability in the reproduction of Pacific sardine (*Sardinops sagax*) from Baja California Sur, Mexico, in the years 1982-1992
Sci. Mar. 59(3-4): 255-264

Biology of the rough scad *Trachurus lathami*, on the southeastern coast of Brazil
S.A. Saccardo and M. Katsuragawa
Sci. Mar. 59(3-4): 265-275

On the sexual maturity of the bogue (*Boops boops*) (Teleostei, Sparidae) from the Portuguese coast
L. Serrano Gordo
Sci. Mar. 59(3-4): 279-286

Growth of the chub mackerel *Scomber japonicus* (Pisces: Scombridae) off the Canary Islands
J.M. Lorenzo, J.G. Pajuelo and A.G. Ramos

The impact of pelagic fish behaviour on fisheries
T.J. Pitcher

An investigation of the trophic role of three pelagic fishes in a tropical coastal ecosystem of the Western Gulf of Mexico, using the ECOPATH II model
Francisco Arreguín-Sánchez and Ernesto A. Chávez
Sci. Mar. 59(3-4): 307-315
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Journal Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feeding habits of young-of-the-year greater amberjack <em>Seriola dumerili</em> (Risso, 1810) along the N/W Sicilian Coast</td>
<td>F. Badalamenti, G. D'Anna, L. Lopiano, D. Scilipoti and A. Mazzola</td>
<td>Sci. Mar. 59(3-4): 317-323</td>
</tr>
<tr>
<td>Ontogenetic changes in mouth structures, foraging behaviour and habitat use of <em>Scomber japonicus</em> and <em>Illex coindetii</em></td>
<td>J.J. Castro and V. Hernández-García</td>
<td>Sci. Mar. 59(3-4): 347-355</td>
</tr>
</tbody>
</table>
Community structure of euphausiids and copepods in the distribution areas of pelagic fish larvae off the west coast of Baja California, Mexico
J. Gómez-Gutiérrez, S. Hernández-Trujillo and G.M. Esqueda-Escarcega
Sci. Mar. 59(3-4): 381-390

Spatial and temporal distribution of *Scomber japonicus* larvae in the Sea of Cortez (1984-1988)
G.M. Esqueda-Escarcega
Sci. Mar. 59(3-4): 391-397

Distribution model and association in three pelagic congeneric species (*Trachurus* spp.) present in the Iberic Mediterranean Sea
D. Lloris and T. Moreno
Sci. Mar. 59(3-4): 399-403

Community structure of the juvenile of coastal pelagic fish species in the Canary Islands waters
T. Moreno and J.J. Castro
Sci. Mar. 59(3-4): 405-413

Environmental change, regimes and middle-sized pelagic fish in the South-east Atlantic Ocean
Sci. Mar. 59(3-4): 417-426

Relationship between herring (*Clupea harengus* L.) distribution and sea surface salinity and temperature in the northern North Sea
C.D. Maravelias and D.G. Reid
Sci. Mar. 59(3-4): 427-438
Temperature effect on spawning and age structure of eggs of *Sardinops sagax*, Clupeidae, during five circadian cycles in Bahia Magdalena, Baja California Sur, Mexico
J.R. Torres-Villegas, R.I. Ochoa-Báez and M.S. Muñetón-Gómez

An application of satellite-derived sea surface temperatures to southern bluefin tuna and albacore off Tasmania, Australia
R. Reddy, V. Lyne, R. Gray, A. Easton and S. Clarke
Sci. Mar. 59(3-4): 445-454

Spawning and nursery grounds of pelagic fish species in the sea-shelf off Argentina and adjacent areas
R.P. Sánchez and J.D. Ciechomski
Sci. Mar. 59(3-4): 455-478

Fluctuations in abundance of small and mid-size pelagics
J. Csirke
Sci. Mar. 59(3-4): 481-492

Presence of early life stages of *Opisthonema libertate* (Günther 1866) in Bahia Concepción, Baja California sur, Mexico (1990-1991)
M.S. Cota Meza and M.S. Muñetón-Gómez
Sci. Mar. 59(3-4): 493-497

Fluctuations in fish catch of middle-sized pelagic fish in the Seto Inland Sea, Japan
H. Hashimoto, T. Shibuno, S. Ishikawa and K. Gushima
Sci. Mar. 59(3-4): 499-506

Deterministic signals in Scottish and Irish herring (*Clupea harengus*) catches
T. Wyatt, F. Saborido-Rey and R.G. Currie
Sci. Mar. 59(3-4): 507-513
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Journal and Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Middle-sized pelagic fish in the world fishery</td>
<td>B. Draganik</td>
<td>Sci. Mar. 59(3-4): 517-525</td>
</tr>
<tr>
<td>Growth and Mortality of Indian Mackerel (<em>Rastrelliger kanagurta</em>) and slender scad (<em>Decapterus russelli</em>) off the East Coast of Peninsular Malaysia</td>
<td>M.I. Mansor and S. Abdullah</td>
<td>Sci. Mar. 59(3-4): 533-547</td>
</tr>
<tr>
<td>Industrial catch of small coastal pelagic fish in Cameroon</td>
<td>Folack Jean</td>
<td>Sci. Mar. 59(3-4): 549-554</td>
</tr>
<tr>
<td>Present fish productivity and bioproduction potential of the world oceans</td>
<td>P.A. Moiseev</td>
<td>Sci. Mar. 59(3-4): 565-569</td>
</tr>
</tbody>
</table>
Improving pelagic fish retention in sampling trawls with a fish funnel
I.K. Workman, C.W. Taylor and J.W. Watson
Sci. Mar. 59(3-4): 581-585

The fishery of horse mackerel (*Trachurus symmetricus murphyi*) in the South Pacific Ocean, with notes on the fishery off central-southern Chile
H. Arancibia, L. Cubillos, D. Arcos, A. Grechina and L. Vilugron
Sci. Mar. 59(3-4): 589-596

Stock assessment of the Brazilian sardine, *Sardinella brasiliensis*, of the southeastern Coast of Brazil
M.C. Cergole
Sci. Mar. 59(3-4): 597-610

Horse mackerel and false scad stock assessment and catch projections, CECAF Divisions 34.1.3 and 34.3.1
C. Maxim
Sci. Mar. 59(3-4): 611-627

Optimizing yields of the king mackerel (*Scomberomorus cavalla*) fishery in the western and southern Gulf of Mexico
E.A. Chávez and F. Arreguín-Sánchez
Sci. Mar. 59(3-4): 629-636

Population dynamics of the king mackerel (*Scomberomorus cavalla*) of the Campeche Bank, Mexico
F. Arreguín-Sánchez, M.A. Cabrera and F.A. Aguilar
Sci. Mar. 59(3-4): 637-645

Comparative growth performance of horse mackerel of the genus *Trachurus*, with emphasis on *T. symmetricus murphyi* in Chile
L. Cubillos and H. Arancibia
Sci. Mar. 59(3-4): 647-652
Assessment and management of fish populations: a critical view
J.A. Pereiro
Sci. Mar. 59(3-4): 653-660

INDEX

Subject Index, Author Index
- 
Sci. Mar. 59(3-4): 661-671

Please, send comments to scimar@icm.csic.es

ICM (CSIC) - Passeig Marítim de la Barceloneta, 37-49. E-08003 Barcelona (Spain)