

Northwest Atlantic  Fisheries Organization

Serial No. N873

NAFO SCS Doc. 84/VI/20

SCIENTIFIC COUNCIL MEETING - JUNE 1984

Provisional Listing of Papers Expected to be Presented at
the Special Session on Squid, 5-7 September 1984

by

T. W. Rowell (Convener)

Invertebrates Division, Dept. of Fisheries and Oceans,
P. O. Box 550, Halifax, Nova Scotia, Canada B3J 2S7

	<u>Theme Topic</u>
1. Aspects of the Fisheries Ecology of New Zealand Arrow Squid (<u>Nototodarus</u> sp.) - R.K. Mattlin, E.C. Forch, and R.E. Scheibling	8
2. Local Movements of Short-Finned Squid in Newfoundland Inshore Waters Based on Tagging Operations - E.G. Dawe	4
3. An Examination of the Relationship Between Relative Changes in the Feeding Environment and Abundance of Short-Finned Squid at Newfoundland - E.G. Dawe	6
4. Predation by Atlantic Cod (<u>Gadus morhua</u>) on Short-Finned Squid (<u>Illex illecebrosus</u>) off Eastern Newfoundland and in the Northeastern Gulf of St. Lawrence - G.R. Lilly and D.R. Osborne	6
5. Verification of Statoliths as an Ageing Tool for the Short-Finned Squid, <u>Illex illecebrosus</u> - G. Hurley, R.K. O'Dor, and E.G. Dawe	5
6. Growth Increments and Ageing in <u>Illex illecebrosus</u> (LeSeuer, 1821) - C.C. Morris and F.A. Aldrich	5, 3
7. Yield Analysis for the Long-Finned Squid, <u>Loligo pealei</u> (LeSeuer), from the Northwest Atlantic - A.M.T. Lange, M.P. Sissenwine, and E.D. Anderson	8
8. The Population Dynamics of Short-Lived Species, with Emphasis on Squids - D. Pauly	8

	<u>Topic</u>
9. Comparative Life History Adaptations of Some Myopsid and Sepiolid Squid. - W.C. Summers	4
10. Feeding Habits of the Squid, <u>Todarodes sagittatus</u> , in North Norwegian Waters - A. Brieby, M. Jobling, and J.H. Sundet	6,7
11. A Comparative Description on the Life Cycles of Five Ommastrephid Squids Caught by Japan: <u>Illex illecebrosus</u> , <u>I. argentinus</u> , <u>Nototodaros sloani</u> , <u>N. gouldi</u> , and <u>Todarodes pacificus</u> - S. Kawahara and H. Hatanaka	1,4
12. Inferred Spawning Areas of the Short-Finned <u>Illex illecebrosus</u> Based on Observed Larval/Juvenile Distributions in Relation to the Physical Oceanographic Regime - T.W. Rowell and R.W. Trites	1
13. Larval and Juvenile Distributions of the Short-Finned Squid (<u>Illex illecebrosus</u>) in Relation to the Gulf Stream Frontal Zone in the Blake Plateau and Cape Hatteras Area - T.W. Rowell, E.G. Dawe, and R.W. Trites	1
14. Changes in Distribution and Biological Characteristics in the Scotian Shelf Population of <u>Illex illecebrosus</u> Over the 1980-83 Period - J.C. Poulard, T.W. Rowell, and J.P. Robin	4
15. Male Reproductive Features of <u>Illex illecebrosus</u> : Their value for Maturity Staging - L. Coelho and R.K. O'Dor	3
16. The Influence of Oceanographic Features on the Distribution and Life Cycles of Cephalopods: a Review - L. Coelho	1,4
17. Properties of <u>Illex illecebrosus</u> Egg Masses Potentially Influencing Larval Oceanographic Distribution - R.K. O'Dor and N. Balch	1
18. <u>Illex illecebrosus</u> Swimming Energetics in Relation to Late-Season Migrations - D. Webber	4
19. A Review of the Large-Scale Distribution of the Squids <u>Illex illecebrosus</u> and <u>Loligo peali</u> in the Northwest Atlantic - G. Black, T.W. Rowell, E.G. Dawe, and A.M.T. Lange	4
20. Analytical Review of Investigations into Squids, <u>Illex illecebrosus</u> - Yu. M. Froerman	7

	<u>Topic</u>
21. Temperature and Salinity Distribution and Peculiarities of Allometric Growth of Larval <u>Illex</u> in the Northwest Atlantic - Yu M. Froerman and Dubinins	1
22. Life-cycle of Squid, <u>Illex illecebrosus</u> - Yu M. Froerman	1,2
23. Oogenesis, Development of Reproductive System and Scale for Determination of Maturity Stages for Females of <u>Illex illecebrosus</u> - R.N. Burukovsky, Yu M. Froerman, and Ch M. Nigmatullin	3,7
24. Reproductive Biology and Scale of Maturity Stages for Males of <u>Illex illecebrosus</u> - Ch M. Nigmatullin, R.M. Sabirov and Yu M. Froerman	3,7
25. Quantitative Aspects of Feeding of Squids, <u>Illex illecebrosus</u> from Data of Field Observations - Yu M. Froerman	6
26. Cannibalism of <u>Illex illecebrosus</u> - Yu M. Froerman	6
27. Impact of Variability of Oceanological Conditions in the Northwest Atlantic on Ecology of Early Ontogenesis Stages of Short-Finned Squid - P.P. Fedulov and Yu M. Froerman	1
28. Ontogenetic Aspects of Biology and Ecological Niche of Squids of Genus <u>Illex</u> and Related Groups - Ch M. Nigmatullin	4
29. Squids of Genus <u>Illex</u> , Comparative Characteristics. - Ch M. Nigmatullin and Yu M. Froerman	7,?
30. Position of Squids <u>Illex illecebrosus</u> and <u>Loligo pealei</u> in Parasite Structure of the Ocean - Ch M. Nigmatullin and A.V. Gaevskaya	?
31. Distribution of the Northwest Atlantic Squids, <u>Illex illecebrosus</u> and <u>Loligo pealei</u> in the Summer-Fall Period 1971 to 1974 - A.S. Noskov	4
32. Feeding of the Northwest Atlantic Squids <u>Illex illecebrosus</u> and <u>Loligo pealei</u> - V.I. Vinogradov	6
33. Distribution of maturing <u>Illex illecebrosus</u> Relative to the Shelf-Slope Water Front off the Northeastern United States - A.M. Lange and M. Ingham	4

34. Feeding and Food Consumption of Long and Short-finned Squid in Subareas 5 and 6

6

- R.O. Maurer and R.E. Bowman

General A Bibliography on the Short-Finned Squid
(Illex illecebrosus)

- N. Balch

(Note: This will not be presented, but will be available to the meeting and possibly published in the J. Northw. Atl. Fish. Sci.)

NOTICE

Biology and Ecology of the Squids, *Illex illecebrosus* and *Loligo pealei* in the Northwest Atlantic

Special Session of the Scientific Council of NAFO
Dartmouth, Nova Scotia, Canada, 5-7 September 1984

General Theme

Progress in the study of the biology and ecology of *Illex illecebrosus* and *Loligo pealei*, with emphasis on life histories and distributional characteristics of particular life-stages in relation to environmental conditions and oceanic processes. Papers reviewing and synthesizing the results of data series developed under the NAFO coordinated research program for *Illex illecebrosus* are particularly welcomed.

Specific Topics

1. Early life histories and their relation to oceanic processes.
2. Size distribution and cohort components related to the life cycle.
3. Sexual maturity and growth.
4. Large-scale and micro-scale distributional characteristics in relation to environmental conditions.
5. Age validation techniques.
6. Predator-prey relationships.
7. Sampling methodology.
8. Biological implications to management.

Deadlines

Authors are asked to send a title and brief description of their potential contributions to either Co-convenor **by 31 March 1984**. Papers will be selected on the basis of their relevance to the topics indicated. Authors of selected contributions will be informed by 15 May 1984.

Completed manuscripts must arrive at the NAFO Secretariat for mimeographing **by 15 August 1984**, addressed to: Assistant Executive Secretary, Northwest Atlantic Fisheries Organization, P. O. Box 638, Dartmouth, Nova Scotia, Canada B2Y 3Y9.

Publication

Publication in the *Journal of Northwest Atlantic Fishery Science* or *NAFO Scientific Council Studies* will depend on the nature and quality of individual contributions.

Co-conveners

Further information may be obtained from the Co-conveners:

Mr T. W. Rowell
Halifax Laboratory
Department of Fisheries and Oceans
P. O. Box 550
Halifax, Nova Scotia
Canada B3J 2S7

Telephone: 1-902-426-3587
Télex: 019-21891

Dr Ch. M. Nigmatullin
Atlantic Research Institute of Marine
Fisheries and Oceanography (AtlantNIRO)
5 Dmitry Donskoy Street
Kaliningrad, 236000
USSR

Cable: ATLANTNIRO, Kaliningrad

