



Serial No. N4210

NAFO SCS Doc. 00/3

SCIENTIFIC COUNCIL MEETING - JUNE 2000

**Provisional Index and List of Titles of Research
and Summary Documents of 1999**

by

NAFO Secretariat

CONTENTS

	Page
Introduction	1
List of Titles	3
Subject Index	13
Author Index	23

Introduction

The Scientific Council has agreed that research documents (SCR) and summary documents (SCS) should be indexed on an annual basis and that these provisional indexes be combined for publication at 5-year intervals. The first NAFO issue of Index of Meeting Documents for 1979-84 was published in March 1985, the second for 1985-89 was published in February 1991 and the third for 1990-94 was published in November 1995. This compilation relates to all SCR documents (Doc. No. 1-116) and SCS documents (Doc. No. 1-24) for the calendar year 1999.

The list of SCR and SCS documents of 1999 in the first section of this document maintains the previous format and is arranged by consecutive document number.

Compilation of the 1999 author index generally follows guidelines that were used in preparing the Index of Meeting Documents for 1979-84, 1985-89 and 1990-94. Each of the research and summary documents is identified by its 3-character code (i.e. SCR or SCS), followed by the last two digits of the year of issue, an oblique (/), and then the designated document number. This is followed in parentheses by a shortened version of the title or an expression which indicates the object of the referenced paper.

The 1999 subject index follows the same format as the author index. However, it differs from subject indexes prior to 1988 in that the text between parentheses is not altered from that used in the author index.

LIST OF RESEARCH AND SUMMARY DOCUMENTS

RESEARCH DOCUMENTS (SCR)

SCR No.	Serial No.	Author(s) and Title
99/1 ^a	N4042	KOELLER, P. A. Fisheries impact assessment – a good, bad and ugly approach to precautionary shrimp stock management. (7 pages)
99/2 ^b	N4045	DE CARDENAS, E., L. MOTOS, and S. JUNQUERA. A simple method to project catches, in the absence of VPA. (10 pages)
99/3 ^a	N4046	CADRIN, S. X., and S. J. WALSH. Surplus production analysis and potential precautionary reference points for Grand Bank yellowtail flounder (NAFO Div. 3LNO). (28 pages)
99/4 ^b	N4047	BUCH, E. Oceanographic investigations off West Greenland, 1998. (13 pages)
99/5 ^a	N4048	WALSH, S. J., S. X. CADRIN, D. RIVARD, R. M. COOK, and W. B. BRODIE. Investigating parameter estimates of fishing mortality and biological reference points using research survey data: yellowtail flounder in NAFO Divisions 3LNO, a case study. (17 pages)
99/6 ^b	N4052	STEIN, M. Environmental indices – a review on climatic variability and potential effects on marine ecosystems. (6 pages)
99/7 ^b	N4053	STEIN, M., and J. LLORET. Environmental indices – predicting air temperatures and water temperatures in the Northwest Atlantic by time series analysis. (9 pages)
99/8 ^b	N4055	DOUGHERTY-POUPORE, T. Marine environmental data service report for 1999. (27 pages)
99/9 ^b	N4056	MORGAN, M. J., and W. R. BOWERING. Estimates of maturity of Greenland halibut from 'synoptic' surveys. (11 pages)
99/10 ^b	N4057	KISELEVA, V. M. Interannual dynamics of growth and maturity of cod on Flemish Cap in 1980-1996. (13 pages)
99/11 ^b	N4058	IGASHOV, T. M. Biological characteristics and bathymetric distribution of Greenland halibut (<i>Reinhardtius hippoglossoides</i>) of the Flemish Pass (3LM) area during the fishery of Russia in 1998. (15 pages)
99/12 ^b	N4059	STEIN, M., and V. A. BOROVKOV. Third report of joint Russian/German project "assessment of short-time climatic variations in the Labrador Sea". (4 pages)
99/13 ^b	N4060	RIKHTER, V. A. On the criteria (reference points) of biomass, and approaches to some fishery management in the North Western Atlantic Ocean. (8 pages)
99/14 ^b	N4061	SARASUA, A., H. MURUA, and E. RODRIGUEZ-MARIN. Roughhead grenadier (<i>Macrourus berglax</i>) population structure on Flemish Cap, 1998. (16 pages)
99/15 ^a	N4063	SAVARD, L., and D. G. PARSONS. A precautionary approach to assessment and management of Pandalid shrimp with application to <i>Pandalus borealis</i> in NAFO Division 3M. (11 pages)

^a Scientific Council Meeting on Precautionary Approach, 27 Apr-1 May 1999

^b Scientific Council Meeting, 3-16 June 1999

SCR No.	Serial No.	Author(s) and Title
99/16 ^b	N4065	DURÁN, P., S. JUNQUERA, and M. S. ALVAREZ. Yellowtail flounder length at maturity in the Grand Bank (1995-98). (8 pages)
99/17 ^b	N4066	STEIN, M. Climatic conditions around Greenland – 1998. (16 pages, revised)
99/18 ^b	N4068	MURUA, H., A. SARASUA, E. RODRIGUEZ-MARIN. A review on roughhead grenadier (<i>Macrourus berglax</i>) population structure on Flemish Cap (NAFO Div. 3M) 1991-1998. (14 pages)
99/19 ^b	N4069	DURÁN, P., S. JUNQUERA, X. PAZ, and M. S. ALVAREZ. Data on sharks in NAFO Divisions 3LMNO: 1991-1998. (14 pages)
99/20 ^b	N4070	RÄTZ, H.-J., and C. STRANSKY. Assessment of redfish (<i>Sebastes marinus</i> , <i>S. mentella</i>) in NAFO Subarea 1 and ICES Div. XIVb based on survey indices, 1982-98. (22 pages)
99/21 ^b	N4071	RÄTZ, H.-J., and J. LLORT. Assessment of American plaice (<i>Hippoglossoides platessoides</i>) in NAFO Subarea 1 and ICES Div. XIVb based on survey indices, 1982-98. (10 pages)
99/22 ^b	N4073	VAZQUEZ, A. Results from bottom trawl survey of Flemish Cap in July 1998. (37 pages)
99/23 ^b	N4074	MORGAN, M. J., and S. J. WALSH. An update of results of tagging experiments with juvenile yellowtail flounder in NAFO Divisions 3LNO. (8 pages)
99/24 ^b	N4078	ALEKSEEV, F. E. On population structure of redfish (<i>Sebastes mentella</i> Travin) in the North Atlantic. (11 pages)
99/25 ^b	N4081	BOJE, J. Intermingling and seasonal migrations of Greenland halibut stock components in the Northwest Atlantic based on tagging studies. (13 pages)
99/26 ^b	N4082	STENSON, G. B., B. HEALEY, P. A. SHELTON, and B. SJARE. Recent trends in the population of Northwest Atlantic harp seals, <i>Phoca groenlandica</i> . (18 pages)
99/27 ^b	N4083	ENGELSTOFT, J. J., and O. A. JØRGENSEN. Biomass and abundance of demersal fish stocks off West Greenland estimated from the Greenland shrimp survey 1988-1998. (19 pages)
99/28 ^b	N4084	LILLY, G. R., P. A. SHELTON, J. BRATTEY, N. G. CADIGAN, E. F. MURPHY, and D. E. STANSBURY. An assessment of the cod stock in NAFO Divisions 2J+3KL. (141 pages)
99/29 ^b	N4085	SABORIDO-REY, F., and S. JUNQUERA. Sexual maturity and spawning biomass of the cod stock on Flemish Cap (Division 3M). (11 pages)
99/30 ^b	N4086	JØRGENSEN, O. A. Survey for Greenland halibut in NAFO Divisions 1C-1D, 1998. (25 pages)
99/31 ^b	N4087	GUNDERSEN, A. C., and W. B. BRODIE. Length-weight relationships for Greenland halibut (<i>Reinhardtius hippoglossoides</i>) in NAFO Divisions 2GHJ and 3KLMNO, 1990-1997. (21 pages)

^a Scientific Council Meeting on Precautionary Approach, 27 Apr-1 May 1999

^b Scientific Council Meeting, 3-16 June 1999

SCR No.	Serial No.	Author(s) and Title
99/32 ^b	N4089	COLBOURNE, E. B., and E. F. MURPHY. A spatial analysis of near-bottom temperatures in NAFO Subareas 2 and 3 on the Newfoundland and southern Labrador Shelves. (29 pages)
99/33 ^b	N4090	RÄTZ, H.-J., and J. LLORT. Assessment of thorny skate (<i>Raja radiata</i>) in NAFO Subarea 1 and ICES Div. XIVb based on survey indices, 1982-98. (15 pages)
99/34 ^b	N4092	BOWERING, W. R. A stock status update of witch flounder in NAFO Divisions 3NO. (17 pages)
99/35 ^b	N4093	BOWERING, W. R. Distribution and abundance of witch flounder in Divisions 2J, 3K and 3L. (14 pages)
99/36 ^b	N4094	DRINKWATER, K. F., E. COLBOURNE, and D. GILBERT. Overview of environmental conditions in the Northwest Atlantic in 1998. (72 pages)
99/37 ^b	N4095	MÖLLER, V., and H.-J. RÄTZ. Assessment of Atlantic wolffish (<i>Anarhichas lupus</i> L.) off West and East Greenland, 1982-98. (14 pages)
99/38 ^b	N4097	BRODIE, W. B., W. R. BOWERING, M. J. MORGAN, D. POWER, and G. BOLAND. Analysis of survey data for Greenland halibut in NAFO Subarea 2 and Divisions 3KLMNO. (42 pages)
99/39 ^b	N4098	DE CÁRDENAS, E. An assessment on American plaice (<i>Hippoglossoides platessoides</i>) in Division 3M. (7 pages)
99/40 ^b	N4099	MORGAN, M. J., W. B. BRODIE, and W. R. BOWERING. An assessment of American plaice in NAFO Divisions 3LNO. (55 pages)
99/41 ^b	N4100	RÄTZ, H.-J. Assessment of redfish in NAFO Subarea 1. (8 pages)
99/42 ^b	N4101	SIMPSON, M., S. J. WALSH, W. B. BRODIE, and D. MADDOCK-PARSONS. Update on cooperative surveys of yellowtail flounder in NAFO Divisions 3NO, 1996-1999. (46 pages)
99/43 ^b	N4102	HAVMAND, S., and K. ZACHARIASSEN. Preliminary results from an experiment with shrimp trawl fitted with a size selective grid. (5 pages)
99/44 ^b	N4103	WALSH, S. J., M. J. VEITCH, M. SIMPSON, and D. MADDOCK-PARSONS. Distribution, abundance, size and age composition of yellowtail flounder (<i>Pleuronectes ferruginea</i>) on the Grand Bank, NAFO Divisions 3LNO, as derived from the Canadian annual bottom trawl surveys. (53 pages)
99/45 ^b	N4104	TREBLE, M. Exploratory fishery results for Greenland halibut (<i>Reinhardtius hippoglossoides</i>) in NAFO Division 0A, 1996-98. (11 pages)
99/46 ^b	N4105	MCCALLLUM, B. R., and S. J. WALSH. Analysis of the performance of the Campelen 1800 Shrimp Trawl during the Annual Canadian bottom trawl surveys of Subarea 2J + Divisions 3KLMNO, 3Ps and 3LNO, 1995-98. (32 pages)
99/47 ^b	N4106	BRODIE, W. B. Analysis of data from the commercial fishery for Greenland halibut in Subarea 0. (10 pages)

^b Scientific Council Meeting, 3-16 June 1999

SCR No.	Serial No.	Author(s) and Title
99/48 ^b	N4107	SIMONSEN, C. S., and J. BOJE. An assessment of the Greenland halibut stock component in NAFO Division 1A inshore. (24 pages)
99/49 ^b	N4108	DAWE, E. G. Migration patterns of short-finned squid and fishery effects inferred from research survey and fishery data. (11 pages)
99/50 ^b	N4109	DAWE, E. G., P. C. BECK, and J. DREW. The fishery for short-finned squid (<i>Illex illecebrosus</i>) in NAFO Subareas 3 and 4 in 1998. (13 pages)
99/51 ^b	N4110	POWER, D. Roundnose grenadier (<i>Coryphaenoides rupestris</i>) in NAFO Subareas 2+3. (15 pages)
99/52 ^b	N4111	AVILA DE MELO, A., R. ALPOIM, and F. SABORIDO-REY. An assessment of redfish in NAFO Division 3M based on beaked redfish (<i>S. mentella</i> and <i>S. fasciatus</i>) data. (154 pages)
99/53 ^b	N4112	JØRGENSEN, O. A. Assessment of the Greenland halibut stock component in NAFO Subarea 0 + Division 1A offshore + Div. 1B-1F. (16 pages)
99/54 ^b	N4113	WALSH, S. J., and M. J. MORGAN. New information on age and growth of yellowtail flounder in Divisions 3LNO as determined from tag returns. (16 pages)
99/55 ^b	N4114	ATKINSON, D. B., M. J. MORGAN, W. B. BRODIE, B. SMITH, and G. GREGORY. Results of a 1998 Canadian industry survey for American plaice in NAFO Divisions 3LNO with comparisons to results from Canadian fall DFO survey. (9 pages)
99/56 ^b	N4115	VAZQUEZ, A., and L. MOTOS. An assessment of the cod stock in NAFO Division 3M. (25 pages)
99/57 ^b	N4116	PAZ, X., and P. DURÁN. Results from the 99 Spanish bottom trawl survey in the NAFO Regulatory Area for Divisions 3NO. (23 pages)
99/58 ^b	N4117	MORGAN, M. J., W. B. BRODIE, and D. MADDOCK PARSONS. Virtual population analyses of the American plaice stock in Divisions 3LNO from 1975 to 1997. (36 pages)
99/59 ^b	N4118	WALSH, S. J., K. S. WAHLEN, and M. SIMPSON. Preliminary analysis of spatial and temporal variation in the distribution of juvenile yellowtail flounder on the Grand Bank: investigating the methodology. (57 pages)
99/60 ^b	N4119	SIMPSON, M., and S. J. WALSH. Spatial variation in distribution and abundance of yellowtail flounder in NAFO Divisions 3LNO using geostatistics. (65 pages)
99/61 ^b	N4120	KULKA, D. W. A re-emerging fishery – description of the 1998 yellowtail flounder fishery on the Grand Banks with a comparison to the historic effort. (36 pages)
99/62 ^b	N4121	STANSBURY, D. E., P. A. SHELTON, E. F. MURPHY, and J. BRATTEY. An assessment of the cod stock in NAFO Divisions 3NO. (46 pages, revised)
99/63 ^b	N4122	WALSH, S. J., and B. MCCALLUM. The performance of the Engel (96) 145 High Lift otter trawl used in DFO/Industry Cooperative Surveys of yellowtail flounder on the Grand Banks, NAFO Divisions 3LNO. (7 pages)

^b Scientific Council Meeting, 3-16 June 1999

SCR No.	Serial No.	Author(s) and Title
99/64 ^b	N4123	JUNQUERA, S., H. MURUA, and E. DE CÁRDENAS. An assessment for roughhead grenadier (<i>Macrourus berglax</i>) in NAFO Subareas 2 and 3. (19 pages)
99/65 ^b	N4124	POWER, D., and D. MADDOCK PARSONS. The status of the redfish resource in NAFO Divisions 3LN. (27 pages)
99/66 ^b	N4125	HENDRICKSON, L. C. Fishery effects on spawner escapement in the Northwest Atlantic <i>Illex illecebrosus</i> stock. (8 pages)
99/67 ^b	N4126	RIVARD, D., P. SHELTON, and D. STANSBURY. Evaluating recovery time from long-term projections including uncertainties: an example for cod on southern Grand Banks (NAFO Divisions 3NO). (18 pages)
99/68 ^b	N4129	WALSH, S. J., W. B. BRODIE, M. J. MORGAN, D. POWER and M. VEITCH. The 1999 assessment of Grand Bank yellowtail flounder stock in NAFO Divisions 3LNO. (37 pages)
99/69 ^b	N4130	RIVARD, D., M. J. MORGAN, D. STANSBURY and W. B. BRODIE. Evaluating the impact of by-catch on the recovery of American plaice on the Newfoundland Grand Banks (NAFO Divisions 3LNO). (12 pages)
99/70 ^c	N4133	P. A. KOELLER. Relative importance of environmental and ecological factors to the management of the northern shrimp (<i>Pandalus borealis</i>) fishery on the Scotian Shelf. (22 pages)
99/71 ^c	N4139	KOELLER, P., R. MOHN, and M. ETTER. Density dependent sex-reversal in pink shrimp, <i>Pandalus borealis</i> , on the Scotian Shelf. (15 pages)
99/72 ^c	N4143	EVANS, G. T., D. C. ORR, D. G. PARSONS, and P. J. VEITCH. A non-parametric method of estimating biomass from trawl surveys, with Monte Carlo confidence intervals. (8 pages)
99/73 ^d	N4144	RODRÍGUEZ-MARIN, F., and J. L. DEL RÍO. Length distributions and recruitment index of northern shrimp (<i>Pandalus borealis</i>) in Flemish Cap (Division 3M) in 1993-1998, as inferred from stomach contents analysis of cod (<i>Gadus morhua</i>), Greenland halibut (<i>Reinhardtius hippoglossoides</i>) and thorny skate (<i>Raja radiata</i>). (14 pages)
99/74 ^c	N4145	ASCHAN, M. Spatial variability in length frequency distribution and growth of shrimp (<i>Pandalus borealis</i> Krøyer 1984) in the Barents Sea. (24 pages)
99/75 ^c	N4147	BISHOP, G. H., T. M. KOENEMAN, and C. A. BOTELHO. Development of a management and stock assessment program for the pot shrimp fishery for <i>Pandalus platyceros</i> in southeastern Alaska. (17 pages)
99/76 ^c	N4148	CLARK, J. E., G. H. BISHOP, and T. M. KOENEMAN. Estimation of harvest rates in the spot shrimp (<i>Pandalus platyceros</i>) pot fishery in southeast Alaska using pre- and post-fishery stock assessment surveys. (24 pages)
99/77 ^c	N4149	HANNAH, R. W., and S. A. JONES. By-catch reduction in an ocean shrimp (<i>Pandalus jordani</i>) trawl from a simple modification to the trawl footrope. (11 pages)

^b Scientific Council Meeting, 3-16 June 1999

^c Joint NAFO/PICES/ICES Symposium, 8-10 September 1999

SCR No.	Serial No.	Author(s) and Title
99/78 ^c	N4150	HANSEN, H. Ø., and M. ASCHAN. Growth performance, size and age-at-maturity of shrimp, <i>Pandalus borealis</i> , in the Svalbard area related to environmental parameters. (13 pages)
99/79 ^c	N4151	BUYANOVKSY, A. I. Biology and distribution of humpback shrimp (<i>Pandalus hypsinotus</i>) in the Tatar Strait (the Sea of Japan). (13 pages)
99/80 ^c	N4152	ANDERSON, P. J. Pandalid shrimp as indicator of ocean climate regime shift. (14 pages)
99/81 ^c	N4153	STEVENS, B. G., and P. J. ANDERSON. An association between the anemone, <i>Cribrinopsis fernaldi</i> , and shrimps of the families Hippolytidae and Pandalidae. (7 pages)
99/82 ^c	N4154	HARBO, R., L. CONVEY, J. A. BOUTILLER, and D. E. HAY. Pacific Coast shrimp trawl fisheries: new management and assessment co-management programs. (7 pages)
99/83 ^c	N4155	HARBITZ, A. Use of subjective prediction in optimal stratified sampling with application to shrimp surveys in the Barents Sea. (18 pages)
99/84 ^c	N4156	RAMSEIER, R. O., C. GARRITY, and D. G. PARSONS. Influence of particle organic carbon sedimentation within the seasonal sea-ice regime on the catch distribution of northern shrimp (<i>Pandalus borealis</i>). (18 pages)
99/85 ^c	N4157	CARDIN, S. X. Evaluating two assessment methods for <i>Pandalus borealis</i> stocks in the Northwest Atlantic. (17 pages)
99/86 ^c	N4158	TVEITE, S. Fixed stations survey for shrimp abundance indices, 15 years investigations in the Norwegian Deeps – Skagerrak. (7 pages)
99/87 ^c	N4159	BERENBOIM, B. I., A. V. DOLGOV, V. A. KORZHEV, and N. A. YARAGINA. Impact of cod on dynamics of shrimp stock, <i>Pandalus borealis</i> , in the Barents Sea and the use of this factor in multispecies models. (12 pages)
99/88 ^c	N4160	FU, C., and T. J. QUINN II. Analyses of harvest strategies for pandalid shrimp populations. (19 pages)
99/89 ^c	N4161	SÉVIGNY, J.-M., L. SAVARD, and D. G. PARSONS. Genetic characterization of the northern shrimp, <i>Pandalus borealis</i> , in the Northwest Atlantic. (16 pages)
99/90 ^c	N4162	CLARK, S. H., S. X. CADRIN, D. F. SCHICK, P. J. DIODATI, M. P. ARMSTRONG, and D. McCARRON. The Gulf of Maine northern shrimp (<i>Pandalus borealis</i>) fishery – a review of the record. (47 pages)
99/91 ^c	N4163	IVANOV, B. G. Studies of and fishery for pandalid shrimps (Crustacea, Decapoda, Pandalidae) in Boreal Area: review on the eve of the XXI century, with special reference to Russia. (20 pages)
99/92 ^d	N4164	GIL, J., R. SÁNCHEZ, R. GANCEDO, and V. VALENCIA. Physical oceanographic conditions on Flemish Cap in summer 1998. (15 pages)

^c Joint NAFO/PICES/ICES Symposium, 8-10 September 1999

^d Scientific Council Annual Meeting, 7, 13-17 September 1999

SCR No.	Serial No.	Author(s) and Title
99/93 ^c	N4165	BOUTILLIER, J. A., and J. A. BOND. A progress report on the control of growth and recruitment overfishing in the shrimp trap fishery in British Columbia. (19 pages)
99/94 ^c	N4166	ANGEL, J. R. Management of the Canadian shrimp. (6 pages)
99/95 ^c	N4167	STEIN, M. Hydrographic and atmospheric conditions off east Greenland – their potential effect on the distribution of shrimp (<i>Pandalus borealis</i>). (17 pages)
99/96 ^d	N4169	KULKA, D. W. Update on the by-catch in the shrimp fisheries in Davis Strait to Flemish Cap. (16 pages)
99/97 ^c	N4170	CARLSSON, D., O. FOLMER, P. KANNEWORFF, M. KINGSLEY, and M. PENNINGTON. A trawl survey for <i>Pandalus borealis</i> in West Greenland. (10 pages)
99/98 ^c	N4177	SAVARD, L., D. G. PARSONS, C. FU, and P. KOELLER. A precautionary approach to assessment and management of shrimp stocks in the Northwest Atlantic. (14 pages)
99/99 ^c	N4178	HVINGEL, C., and M. C. S. KINGSLEY. The uncertainty of an assessment procedure for the West Greenland stock of northern shrimp (<i>Pandalus borealis</i> Krøyer). (10 pages)
99/100 ^c	N4179	PARSONS, D. G. Forecasting fishery performance for northern shrimp (<i>Pandalus borealis</i>) in NAFO Divisions 2HJ. (13 pages)
99/101 ^c	N4180	COLBOURNE, E. Oceanographic conditions on the Flemish Cap during the summer of 1999, with comparisons to the previous year and the 1961-1990 average. (17 pages)
99/102 ^d	N4181	ORR, D. C., D. G. PARSONS, D. B. ATKINSON, P. J. VEITCH, and D. SULLIVAN. Information pertaining to northern shrimp (<i>Pandalus borealis</i>) and groundfish in NAFO Divisions 3LNO. (25 pages)
99/103 ^c	N4182	SIEGSTAD, H. The Greenland fishery for northern shrimp (<i>Pandalus borealis</i>) on Flemish Cap, NAFO Div. 3M, in 1998 and 1999. (4 pages)
99/104 ^c	N4183	SALTHAUG, A., and O. R. GODØ. Standardization of fishing power in the Norwegian shrimp trawler fleet. (6 pages)
99/105 ^c	N4184	KINGSLEY, M. C. S., P. KANNEWORFF, and D. M. CARLSSON. Modification to the design of the trawl survey for <i>Pandalus borealis</i> in West Greenland waters: effects on bias and precision. (12 pages)
99/106 ^c	N4185	GARABANA, D. Northern shrimp (<i>Pandalus borealis</i>) on Flemish Cap in July 1999. (16 pages)
99/107 ^c	N4187	HVINGEL, C. The fishery for northern shrimp (<i>Pandalus borealis</i>) off West Greenland, 1970-1999 (16 pages)
99/108 ^c	N4188	HVINGEL, C. The fishery for northern shrimp (<i>Pandalus borealis</i>) off East Greenland, Greenlandic zone, 1987-1999. (14 pages)

^c Joint NAFO/PICES/ICES Symposium, 8-10 September 1999

^d Scientific Council Annual Meeting, 7, 13-17 September 1999

^e Scientific Council Meeting, 11-17 November 1999

SCR No.	Serial No.	Author(s) and Title
99/109 ^c	N4189	CARLSSON, D. M., P. KANNEWORFF, and M. C. S. KINGSLEY. Stratified-random trawl survey for northern shrimp (<i>Pandalus borealis</i>) in NAFO Subareas 0+1, in 1999. (6 pages)
99/110 ^c	N4190	CARLSSON, D. M., and P. KANNEWORFF. Bottom temperatures and possible effect on growth and size at sex reversal of northern shrimp in West Greenland. (7 pages)
99/111 ^c	N4191	KINGSLEY, M. C. S., P. KANNEWORFF, and D. M. CARLSSON. By-catches of fish in the West Greenland shrimp survey: an initial analysis. (21 pages)
99/112 ^c	N4192	SKÚLADÓTTIR, U., D. G. PARSONS, and D. ORR. The international fishery for shrimp (<i>Pandalus borealis</i>) in Division 3M (Flemish Cap), 1993-1999. (21 pages)
99/113 ^c	N4193	SIEGSTAD, H. Preliminary assessment of shrimp (<i>Pandalus borealis</i>) in Davis Strait 1999 (Subareas 0+1). (21 pages)
99/114 ^c	N4195	NICOLAJSEN, A. Biomass estimate, growth, length and age distribution of the northern shrimp (<i>Pandalus borealis</i>) stock on Flemish Cap (NAFO Div. 3M) in July 1999 and Faroese shrimp catches 1996-1999. (18 pages)
99/115 ^c	N4196	SKÚLADÓTTIR, U. The Icelandic shrimp fishery (<i>Pandalus borealis</i>) in Denmark Strait in 1998-1999. (9 pages)
99/116 ^c	N4197	SKÚLADÓTTIR, U. The Icelandic shrimp fishery (<i>Pandalus borealis</i> Kr.) at Flemish Cap in 1993-1999. (27 pages)

^d Scientific Council Annual Meeting, 7, 13-17 September 1999

^c Scientific Council Meeting, 11-17 November 1999

SUMMARY DOCUMENTS (SCS)

SCS No.	Ser. No.	Author(s) and Title
99/1 ^b	N4043	CHAMUT, P. S. Canadian request for scientific advice on management in 2000 of certain stocks in Subareas 0 to 4. (2 pages)
99/2 ^b	N4044	PEDERSEN, P. M. Denmark (Greenland) request for scientific advice on management of certain stocks in Subareas 0 and 1. (1 page)
99/3 ^a	N4049	CORNUS, H. P. Meeting of FAO and Non-FAO Regional Fishery Bodies or arrangements. FAO Headquarters, Rome, Italy, 11-12 February 1999. (3 pages)
99/4 ^a	N4050	NAFO. Report of Scientific Council Meeting on Precautionary Approach, 27 April-1 May 1999. (36 pages)
99/5 ^b	N4054	SIGAEV, I. K., V. A. RIKHTER, A. A. VASKOV, T. M. IGASHOV, and V. M. KISELEVA. Russian research report for 1998. (13 pages)

^a Scientific Council Meeting on Precautionary Approach, 27 Apr-1 May 1999

^b Scientific Council Meeting, 3-16 June 1999

SCS No.	Ser. No.	Author(s) and Title
99/6 ^b	N4062	JUNQUERA, S., E. DE CÁRDENAS, A. VAZQUEZ, and H. MURUA. Spanish research report for 1998. (11 pages)
99/7 ^b	N4064	VALDÉS, E., and I. RAMOS. Cuban research report for 1998. (9 pages)
99/8 ^b	N4067	CLARK, S., and K. SOSEBEE. United States research report for 1998. (15 pages)
99/9 ^b	N4072	RÄTZ, H.-J., M. STEIN, and P. CORNUS. German research report for 1998. (5 pages)
99/10 ^b	N4075	NAFO SECRETARIAT. Tagging activities reported for the Northwest Atlantic in 1998. (3 pages)
99/11 ^b	N4076	NAFO SECRETARIAT. Provisional index and list of titles of research and summary documents of 1998. (30 pages)
99/12 ^b	N4079	NAFO SECRETARIAT. List of biological sampling data for 1998. (23 pages)
99/13 ^b	N4077	ICES/NAFO WORKING GROUP. Joint ICES/NAFO Working Group on Harp and Hooded Seals, Tromsø, Norway. (34 pages)
99/14 ^b	N4080	NAFO SECRETARIAT. Notes on acquisition and publications of statistics since June 1998. (2 pages)
99/15 ^b	N4087	MAHE, J.-C., and D. BRIAND. French Research report for 1998. (7 pages)
99/16 ^b	N4091	ALPOIM, R., E. SANTOS, J. VARGAS and A. M. ÁVILA DE MELO. Portuguese Research Report for 1998. (55 pages)
99/17 ^b	N4096	FOLMER, O. Denmark/Greenland research report for 1998. (6 pages)
99/18 ^b	N4127	SCIENTIFIC COUNCIL CHAIRMAN. Report of the NAFO Observer at the Eleventh ICES Dialogue Meeting, 26-27 January 1999 (Nantes, France). (2 pages, revised)
99/19 ^b	N4128	SCIENTIFIC COUNCIL CHAIRMAN. Report of the NAFO Observer to ICES Advisory Committee on Fishery Management (ACFM), Copenhagen, Denmark, May 1999. (2 pages)
99/20 ^d	N4131	KULKA, D., and J. M. TILLMAN. Canadian Research Report for 1998. (11 pages)
99/21 ^b	N4132	NAFO. Report of Scientific Council Meeting, 3-16 June 1999. (194 pages)
99/22 ^d	N4142	CWP. Report of CWP-18 Session, Luxembourg, 6-9 July 1999. (48 pages)
99/23 ^d	N4169	NAFO. Report of Scientific Council, Annual Meeting, 7, 13-17 September 1999. (55 pages)
99/24 ^e	N4194	NAFO. Report of Scientific Council, 11-17 November 1999. (42 pages + corrigendum)

^b Scientific Council Meeting, 3-16 June 1999

^d Scientific Council Annual Meeting, 7, 13-17 September 1999

^e Scientific Council Meeting, 11-17 November 1999

[A]Abundance; abundance index

- SCR 99/ 2 (method to project catches in the absence of VPA)
 19 (data on sharks in Div. 3LMNO, 1991-98)
 20 (assessment of redfish in SA1 from surveys, 1982-98)
 27 (bio. and abund. of demersal stocks off W. Greenland, 1988-98)
 28 (assessment of cod in Div. 2J+3KL)
 30 (G. halibut survey in Div. 1C-1D, 1998)
 33 (assessment of thorny skate in SA1, 1982-98)
 34 (stock status of witch flounder in Div. 3NO)
 35 (distribution and abundance of witch flo. in Div. 2J+3KL)
 37 (assessment of A. wolffish off Greenland, 1982-98)
 38 (G. halibut survey data in SA2 and Div. 3KLMNO)
 39 (assessment of A. plaice in Div. 3M)
 40 (assessment of A. plaice in Div. 3LNO)
 41 (assessment of redfish in SA1)
 44 (information on yellowtail flo. from surveys in Div. 3LNO)
 50 (squid fishery in SA 3+4, 1988)
 51 (roundnose grenadier in SA 2+3)
 52 (assessment of beaked redfish in Div. 3M)
 55 (Canadian survey results for A. plaice in Div. 3LNO)
 56 (assessment of cod in Div. 3M)
 57 (Spanish trawl survey in Div. 3NO, 1999)
 59 (analyses of dist. of juvenile yellowtail flo. on the Grand Bank)
 60 (spatial variation of yellowtail flo. in Div. 3LNO by geostatistics)
 62 (assessment of cod stock in Div. 3NO)
 65 (status of redfish in Div. 3LN)
 102 (shrimp and groundfish in Div. 3LNO)
 107 (shrimp fishery off West Greenland, 1970-99)
 108 (shrimp fishery off East Greenland, 1987-99)

Acadian redfish (see Redfish, Acadian)

Acoustics

- SCR 99/ 28 (assessment of cod in Div. 2J+3KL)

Age, composition

- SCR 99/ 14 (roughhead grenadier population structure on Flemish Cap, 1998)
 18 (roughhead grenadier population structure Flemish Cap, 1991-98)
 21 (assessment of A. plaice in SA1 from surveys, 1982-98)
 26 (trends in population of NW Atlantic harp seals)
 30 (G. halibut survey in Div. 1C-1D, 1998)
 37 (assessment of A. wolffish off Greenland, 1982-98)
 42 (surveys for yellowtail flo. in Div. 3NO, 1996-99)
 44 (information on yellowtail flo. from surveys in Div. 3LNO)
 48 (assessment of G halibut in Div. 1A, inshore)
 52 (assessment of beaked redfish in Div. 3M)
 54 (age and growth of yellowtail flo. in Div. 3LNO from tag returns)
 61 (description of yellowtail flo. fishery on Grand Bank in 1998)

American plaice (see Plaice, American)

Anarhichas sp. (see Wolffish)

Assessment (general) (see also by specific stocks)

- SCR 99/ 1 (fisheries impact assessment, PA for shrimp stocks)
 15 (precautionary approach to shrimp in Div. 3M)
 20 (assessment of redfish in SA1 from surveys, 1982-98)
 21 (assessment of A. plaice in SA1 from surveys, 1982-98)
 28 (assessment of cod in Div. 2J+3KL)
 58 (VPA analyses of A. plaice in Div 3LNO, 1975-97)
 68 (assessment of yellowtail flo. in Div. 3LNO, 1999)
 75 (management and assessment of shrimp in southeastern Alaska)
 85 (evaluating 2 assessment methods for shrimp in the NW Atlantic)
 98 (precautionary approach to assessment and management of shrimp)
 99 (uncertainty of assessment procedure for shrimp in W. Greenland)
- SCS 99/ 1 (Canadian request for scientific advice for 2000)
 2 (Denmark-Greenland request for scientific advice for 2000)

Cod (Divisions 2J, 3K and 3L)

- SCR 99/ 28 (assessment of cod in Div. 2J+3KL)
 36 (overview of environmental conditions, NW Atlantic, 1998)

Cod (Division 3M)

- SCR 99/ 10 (growth and maturity of cod on Flemish Cap, 1980-96)
 22 (results of EU trawl survey, Div. 3M, Jul 1998)
 29 (maturity and spawning biomass of cod in Div. 3M)
 56 (assessment of cod in Div. 3M)
- SCS 99/ 5 (Russian research report for 1998)
 16 (Portuguese research report for 1998)

Cod (Division 3N and 3O)

- SCR 99/ 57 (Spanish trawl survey in Div. 3NO, 1999)
 62 (assessment of cod stock in Div. 3NO)
 67 (evaluating recovery time from projections for cod in Div. 3NO)
- SCS 99/ 16 (Portuguese research report for 1998)

Redfish (Subarea 1)

- SCR 99/ 20 (assessment of redfish in SA1 from surveys, 1982-98)
 27 (bio. and abundance of demersal stocks off W. Greenland, 1988-98)
 30 (G. halibut survey in Div. 1C-1D, 1998)
 41 (assessment of redfish in SA1)
- SCS 99/ 9 (German research report for 1998)
 17 (Denmark/Greenland research report for 1998)

Redfish (Division 3M)

- SCR 99/ 22 (results of EU trawl survey, Div. 3M, Jul 1998)
 52 (assessment of beaked redfish in Div. 3M)
- SCS 99/ 16 (Portuguese research report for 1998)

Redfish (Divisions 3L and 3N)

- SCR 99/ 65 (status of redfish in Div. 3LN)
- SCS 99/ 5 (Russian research report for 1998)
 6 (Spanish research report for 1998)
 15 (French research report for 1998)
 16 (Portuguese research report for 1998)

American plaice (Divisions 3L, 3N and 3O)

- SCR 99/ 40 (assessment of A. plaice in Div. 3LNO)
 42 (surveys for yellowtail flo. in Div. 3NO, 1996-99)
 55 (Canadian survey results for A. plaice in Div. 3LNO)
 57 (Spanish trawl survey in Div. 3NO, 1999)
 58 (VPA analyses of A. plaice in Div 3LNO, 1975-97)
- SCS 99/ 6 (Spanish research report for 1998)
 16 (Portuguese research report for 1998)

American plaice (Division 3M)

- SCR 99/ 22 (results of EU trawl survey, Div. 3M, Jul 1998)
 39 (assessment of A. plaice in Div. 3M)
- SCS 99/ 16 (Portuguese research report for 1998)

Witch flounder (Divisions 3N and 3O)

- SCR 99/ 34 (stock status of witch flounder in Div. 3NO)
 57 (Spanish trawl survey in Div. 3NO, 1999)
- SCS 99/ 6 (Spanish research report for 1998)
 16 (Portuguese research report for 1998)

Yellowtail flounder (Divisions 3L, 3N and 3O)

- SCR 99/ 3 (surplus production analysis of yellowtail in Div. 3LNO)
 5 (fishing mortality and ref. points for yellowtail flo. in Div. 3LNO)
 16 (length at maturity of yellowtail flo. on the Grand Bank, 1995-98)
 23 (tagging experiments with juvenile yellowtail flo. in Div. 3LNO)
 42 (surveys for yellowtail flo. in Div. 3NO, 1996-99)
 44 (information on yellowtail flo. from surveys in Div. 3LNO)
 46 (performance of shrimp trawl during surveys in SA2+3, 1995-98)
 54 (age and growth of yellowtail flo. in Div. 3LNO from tag returns)
 57 (Spanish trawl survey in Div. 3NO, 1999)
 59 (distribution analyses of juvenile yellowtail flo. on the Grand Bank)
 60 (spatial variation of yellowtail flo. in Div. 3LNO by geostatistics)
 61 (description of yellowtail flo. fishery on Grand Bank in 1998)
 63 (performance of trawl in surveys for yellowtail flo. in Div. 3LNO)
 68 (assessment of yellowtail flo. in Div. 3LNO, 1999)

- SCS 99/ 6 (Spanish research report for 1998)
 16 (Portuguese research report for 1998)

Greenland halibut (Subarea 0 + Division 1A Offshore and Divisions 1B-F)

- SCR 99/ 25 (migration of G. halibut stock based on tagging)
 27 (bio. and abundance of demersal stocks off W. Greenland, 1988-98)
 30 (G. halibut survey in Div. 1C-1D, 1998)
 45 (exploratory fishery for G. halibut in Div. 0A, 1996-98)
 47 (analysis of data for G. halibut in SA0)
 53 (assessment of G. halibut in SA0+1)

- SCS 99/ 5 (Russian research report for 1998)
 9 (German research report for 1998)
 17 (Denmark/Greenland research report for 1998)

Greenland halibut (Division 1A Inshore)

- SCR 99/ 25 (migration of G. halibut stock based on tagging)
 48 (assessment of G halibut in Div. 1A, inshore)
 53 (assessment of G. halibut in SA0+1)

- SCS 99/ 17 (Denmark/Greenland research report for 1998)

Greenland halibut (Subarea 2 and Divisions 3KLMNO)

- SCR 99/ 2 (method to project catches in the absence of VPA)
 9 (maturity estimates of G. halibut from surveys)
 11 (biol. char. and distribution of G. halibut in Flemish Pass, 1998)
 22 (results of EU trawl survey, Div. 3M, Jul 1998)
 31 (length-weight for G. halibut in Div. 2GHJ+3KLMNO, 1990-97)
 38 (G. halibut survey data in SA2 and Div. 3KLMNO)
 57 (Spanish trawl survey in Div. 3NO, 1999)

- SCS 99/ 5 (Russian research report for 1998)
 6 (Spanish research report for 1998)
 15 (French research report for 1998)
 16 (Portuguese research report for 1998)

Roundnose grenadier (Subareas 0+1)

- SCR 99/ 30 (G. halibut survey in Div. 1C-1D, 1998)

- SCS 99/ 5 (Russian research report for 1998)
 9 (German research report for 1998)
 17 (Denmark/Greenland research report for 1998)

Roundnose grenadier (Subareas 2+3)

- SCR 99/ 51 (roundnose grenadier in SA 2+3)

- SCS 99/ 5 (Russian research report for 1998)

Roughhead grenadier (Subareas 2+3)

- SCR 99/ 14 (roughhead grenadier population structure on Flemish Cap, 1998)
 18 (roughhead grenadier population structure, Flemish Cap, 1991-98)
 22 (results of EU trawl survey, Div. 3M, Jul 1998)
 64 (assessment of roughhead grenadier in SA2+3)

- SCS 99/ 6 (Spanish research report for 1998)
 9 (German research report for 1998)
 16 (Portuguese research report for 1998)

Other Finfish (Subarea 1)

- SCR 99/ 21 (assessment of A. plaice in SA1 from surveys, 1982-98)
 27 (bio. and abundance of demersal stocks off W. Greenland, 1988-98)
 30 (G. halibut survey in Div. 1C-1D, 1998)
 33 (assessment of thorny skate in SA1, 1982-98)
 37 (assessment of A. wolffish off Greenland, 1982-98)

- SCS 99/ 9 (German research report for 1998)
 17 (Denmark/Greenland research report for 1998)

Short-finned Squid (Subareas 3+4)

- SCR 99/ 49 (migration of squid from survey and fishery data)
 50 (squid fishery in SA 3+4, 1988)
 66 (fishery effects on spawner escapement for squid)

- SCS 99/ 7 (Cuban research report for 1998)
 8 (US research report for 1998)
 20 (Canadian research report for 1998)

Shrimp (Division 3M)

- SCR 99/ 73 (info on shrimp in Div. 3M from stomach analysis of other fish)
 92 (oceanographic conditions on Flemish Cap, 1998)
 101 (oceanographic conditions on Flemish Cap, 1999 vs 1961-90)
 103 (Greenland fishery for shrimp in Div. 3M, 1998-99)
 106 (shrimp in Div. 3M, Jul 1999)
 112 (international shrimp fishery in Div. 3M, 1993-99)
 114 (information on shrimp in Div. 3M and Faroese catches, 1996-99)
 116 (Icelandic shrimp fishery in Div. 3M, 1993-99)

Shrimp (Subareas 0+1)

- SCR 99/105 (modifications to trawl survey design for shrimp in W. Greenland)
 107 (shrimp fishery off West Greenland, 1970-99)
 109 (survey for shrimp in SA 0+1, 1999)
 110 (temperature on growth and sex change of shrimp in W. Greenland)
 113 (assessment of shrimp in SA 0+1, 1999)

Shrimp (Denmark Strait)

- SCR 99/108 (shrimp fishery off East Greenland, 1987-99)
 115 (Icelandic shrimp fishery in Denmark Strait, 1998-99)

Atlantic cod (see Cod, Atlantic)Atlantic mackerel (see Mackerel, Atlantic)Atlantic Ocean, Northeast

- SCR 99/ 78 (growth and age of shrimp in the Svalbard Area)
 86 (abundance of shrimp in Norwegian Deeps-Skagerrak, 1984-99)

Atlantic Ocean, Northwest

- SCR 99/ 7 (predict temperature in the NW Atlantic by time series analyses)
 8 (MEDS report for 1998)
 25 (migration of G. halibut stock based on tagging)
 36 (overview of environmental conditions, NW Atlantic, 1998)
 85 (evaluating 2 assessment methods for shrimp in the NW Atlantic)
 89 (genetic characterization of shrimp in the NW Atlantic)
 94 (management of Canadian shrimp)
 98 (precautionary approach to assessment and management of shrimp)

- SCS 99/ 1 (Canadian request for scientific advice for 2000)
 2 (Denmark-Greenland request for scientific advice for 2000)
 5 (Russian research report for 1998)
 6 (Spanish research report for 1998)
 7 (Cuban research report for 1998)

- SCS 99/ 8 (US research report for 1998)
 9 (German research report for 1998)
 10 (tagging activities reported for 1998)
 12 (list of biological sampling for 1998)
 13 (report of ICES/NAFO working group on seals)
 15 (French research report for 1998)
 16 (Portuguese research report for 1998)
 17 (Denmark/Greenland research report for 1998)
 20 (Canadian research report for 1998)

Atlantic redfishes (see Redfishes, Atlantic)

Atmosphere

- SCR 99/ 12 (3rd Russian/German project, climatic variations Labrador Sea)
 36 (overview of environmental conditions, NW Atlantic, 1998)

[B]

Baffin Island

- SCR 99/ 45 (exploratory fishery for G. halibut in Div. 0A, 1996-98)
 47 (analysis of data for G. halibut in SA0)
 53 (assessment of G. halibut in SA0+1)
 109 (survey for shrimp in SA 0+1, 1999)

Barents Sea

- SCR 99/ 74 (distribution and growth of shrimp in the Barents Sea)
 83 (prediction from optimum sampling of shrimp in the Barents Sea)
 87 (impact of cod on dynamics of shrimp in the Barents Sea)
 91 (review of shrimp in the Boreal Area with reference to Russia)

Beaked redfish (see Redfish, beaked)

Biological characteristics

- SCR 99/ 49 (migration of squid from survey and fishery data)
 79 (biology and distribution of shrimp in the Sea of Japan)

Biomass (see also Abundance; Stock size)

- SCR 99/ 3 (surplus production analysis of yellowtail in Div. 3LNO)
 9 (maturity estimates of G. halibut from surveys)
 14 (roughhead grenadier population structure on Flemish Cap, 1998)
 21 (assessment of A. plaice in SA1 from surveys, 1982-98)
 22 (results of EU trawl survey, Div. 3M, Jul 1998)
 27 (bio. and abundance of demersal stocks off W. Greenland, 1988-98)
 28 (assessment of cod in Div. 2J+3KL)
 29 (maturity and spawning biomass of cod in Div. 3M)
 30 (G. halibut survey in Div. 1C-1D, 1998)
 33 (assessment of thorny skate in SA1, 1982-98)
 34 (stock status of witch flounder in Div. 3NO)
 35 (distribution and abundance of witch flo. in Div. 2J+3KL)
 37 (assessment of A. wolffish off Greenland, 1982-98)
 38 (G. halibut survey data in SA2 and Div. 3KLMNO)
 39 (assessment of A. plaice in Div. 3M)
 40 (assessment of A. plaice in Div. 3LNO)
 41 (assessment of redfish in SA1)
 50 (squid fishery in SA 3+4, 1988)
 51 (roundnose grenadier in SA 2+3)
 52 (assessment of beaked redfish in Div. 3M)
 53 (assessment of G. halibut in SA0+1)
 57 (Spanish trawl survey in Div. 3NO, 1999)
 62 (assessment of cod stock in Div. 3NO)
 64 (assessment of roughhead grenadier in SA2+3)
 66 (fishery effects on spawner escapement for squid)
 68 (assessment of yellowtail flo. in Div. 3LNO, 1999)
 72 (non-parametric method of estimating bio. of shrimp from surveys)
 102 (shrimp and groundfish in Div. 3LNO)
 109 (survey for shrimp in SA 0+1, 1999)
 113 (assessment of shrimp in SA 0+1, 1999)
 114 (information on shrimp in Div. 3M and Faroese catches, 1996-99)

Buoys

- SCR 99/ 8 (MEDS report for 1998)

By-catch

- SCR 99/ 19 (data on sharks in Div. 3LMNO, 1991-98)
 37 (assessment of A. wolffish off Greenland, 1982-98)
 39 (assessment of A. plaice in Div. 3M)
 40 (assessment of A. plaice in Div. 3LNO)
 43 (results of shrimp trawl fitted with size-selective grid)
 61 (description of yellowtail flo. fishery on Grand Bank in 1998)
 69 (impact of by-catch on recovery of A. plaice in Div. 3NO)
 77 (by-catch reduction of shrimp by modification to trawl)
 96 (by-catch in shrimp fishery, Davis Strait to Div. 3M)
 111 (by-catches of fish in shrimp survey in West Greenland)
 116 (Icelandic shrimp fishery in Div. 3M, 1993-99)

[C]

Canada

- SCR 99/ 94 (management of Canadian shrimp)
 SCS 99/ 1 (Canadian request for scientific advice for 2000)
 20 (Canadian research report for 1998)

Catch; catch/effort

- SCR 99/ 2 (method to project catches in the absence of VPA)
 38 (G. halibut survey data in SA2 and Div. 3KLMNO)
 41 (assessment of redfish in SA1)
 45 (exploratory fishery for G. halibut in Div. 0A, 1996-98)
 47 (analysis of data for G. halibut in SA0)
 51 (roundnose grenadier in SA 2+3)
 56 (assessment of cod in Div. 3M)
 61 (description of yellowtail flo. fishery on Grand Bank in 1998)
 62 (assessment of cod stock in Div. 3NO)
 64 (assessment of roughhead grenadier in SA2+3)
 65 (status of redfish in Div. 3LN)
 66 (fishery effects on spawner escapement for squid)
 68 (assessment of yellowtail flo. in Div. 3LNO, 1999)
 103 (Greenland fishery for shrimp in Div. 3M, 1998-99)
 107 (shrimp fishery off West Greenland, 1970-99)
 108 (shrimp fishery off East Greenland, 1987-99)
 112 (international shrimp fishery in Div. 3M, 1993-99)
 113 (assessment of shrimp in SA 0+1, 1999)
 115 (Icelandic shrimp fishery in Denmark Strait, 1998-99)
 116 (Icelandic shrimp fishery in Div. 3M, 1993-99)

Climate

- SCR 99/ 6 (climatic variability and effects on marine ecosystems)
 12 (3rd Russian/German project, climatic variations Labrador Sea)
 17 (climatic conditions around Greenland, 1998)
 36 (overview of environmental conditions, NW Atlantic, 1998)
 80 (shrimp as an indicator of ocean climate regime shift)

Cod, Atlantic (*Gadus morhua*) (see also specific stock)

- SCR 99/ 10 (growth and maturity of cod on Flemish Cap, 1980-96)
 13 (biomass and approaches to fishery management)
 22 (results of EU trawl survey, Div. 3M, Jul 1998)
 27 (bio. and abundance of demersal stocks off W. Greenland, 1988-98)
 28 (assessment of cod in Div. 2J+3KL)
 29 (maturity and spawning biomass of cod in Div. 3M)
 56 (assessment of cod in Div. 3M)
 57 (Spanish trawl survey in Div. 3NO, 1999)
 62 (assessment of cod stock in Div. 3NO)
 67 (evaluating recovery time from projections for cod in Div. 3NO)
 87 (impact of cod on dynamics of shrimp in the Barents Sea)

Commercial fisheries

- SCR 99/ 47 (analysis of data for G. halibut in SA0)
 91 (review of shrimp in the Boreal Area with reference to Russia)
 28 (assessment of cod in Div. 2J+3KL)
 53 (assessment of G. halibut in SA0+1)
 112 (international shrimp fishery in Div. 3M, 1993-99)

Coordinating Working Party (CWP)

- SCS 99/ 22 (report of CWP 18th session, Jul 1999)

Coryphaenoides rupestris (see Grenadier, roundnose)Cuba

- SCS 99/ 7 (Cuban research report for 1998)

Currents (water circulation)

- SCR 99/ 36 (overview of environmental conditions, NW Atlantic, 1998)
 92 (oceanographic conditions on Flemish Cap, 1998)
 101 (oceanographic conditions on Flemish Cap, 1999 vs 1961-90)

[D]Davis Strait

- SCR 99/ 48 (assessment of G halibut in Div. 1A, inshore)
 96 (by-catch in shrimp fishery, Davis Strait to Div. 3M)
 113 (assessment of shrimp in SA 0+1, 1999)

Denmark (in respect of the Faroe Islands and Greenland) (see under Faroe Islands and Greenland)Denmark Strait

- SCR 99/115 (Icelandic shrimp fishery in Denmark Strait, 1998-99)

Depth

- SCR 99/ 62 (assessment of cod stock in Div. 3NO)
 72 (non-parametric method of estimating bio. of shrimp from surveys)

Discards (fish discarded at sea)

- SCR 99/ 19 (data on sharks in Div. 3LMNO, 1991-98)

Distribution

- SCR 99/ 11 (biol. char. and distribution of G. halibut in Flemish Pass, 1998)
 14 (roughhead grenadier population structure on Flemish Cap, 1998)
 22 (results of EU trawl survey, Div. 3M, Jul 1998)
 24 (population structure of redfish in Irminger Sea)
 28 (assessment of cod in Div. 2J+3KL)
 35 (distribution and abundance of witch flo. in Div. 2J+3KL)
 38 (G. halibut survey data in SA2 and Div. 3KLMNO)
 39 (assessment of A. plaice in Div. 3M)
 42 (surveys for yellowtail flo. in Div. 3NO, 1996-99)
 44 (information on yellowtail flo. from surveys in Div. 3LNO)
 45 (exploratory fishery for G. halibut in Div. 0A, 1996-98)
 49 (migration of squid from survey and fishery data)
 53 (assessment of G. halibut in SA0+1)
 55 (Canadian survey results for A. plaice in Div. 3LNO)
 57 (Spanish trawl survey in Div. 3NO, 1999)
 59 (distribution analyses of juvenile yellowtail flo. on the Grand Bank)
 60 (spatial variation of yellowtail flo. in Div. 3LNO by geostatistics)
 61 (description of yellowtail flo. fishery on Grand Bank in 1998)
 62 (assessment of cod stock in Div. 3NO)
 68 (assessment of yellowtail flo. in Div. 3LNO, 1999)
 74 (distribution and growth of shrimp in the Barents Sea)
 79 (biology and distribution of shrimp in the Sea of Japan)

- SCR 99/ 84 (organic carbon sediment data on catch distribution of shrimp)
 95 (hydrography and atmosphere off East Greenland on shrimp)
 102 (shrimp and groundfish in Div. 3LNO)
 103 (Greenland fishery for shrimp in Div. 3M, 1998-99)
 107 (shrimp fishery off West Greenland, 1970-99)
 108 (shrimp fishery off East Greenland, 1987-99)
 109 (survey for shrimp in SA 0+1, 1999)
 113 (assessment of shrimp in SA 0+1, 1999)
 114 (information on shrimp in Div. 3M and Faroese catches, 1996-99)
 115 (Icelandic shrimp fishery in Denmark Strait, 1998-99)
 116 (Icelandic shrimp fishery in Div. 3M, 1993-99)

Dogfish, black

- SCR 99/ 19 (data on sharks in Div. 3LMNO, 1991-98)

[E]Ecology (see Environment)Effort (see catch)Elasmobranchs

- SCR 99/ 19 (data on sharks in Div. 3LMNO, 1991-98)

Environment

- SCR 99/ 4 (oceanographic investigation off Greenland, 1998)
 6 (climatic variability and effects on marine ecosystems)
 7 (predict temperature in the NW Atlantic by time series analyses)
 8 (MEDS report for 1998)
 12 (3rd Russian/German project, climatic variations Labrador Sea)
 13 (biomass and approaches to fishery management)
 17 (climatic conditions around Greenland, 1998)
 32 (analysis of near-bottom temperatures in SA2+3)
 36 (overview of environmental conditions, NW Atlantic, 1998)
 70 (environment and ecology in shrimp management on Scotian Shelf)
 95 (hydrography and atmosphere off East Greenland on shrimp)
 100 (forecasting fishery performance for shrimp in Div. 2HJ)

European Union (see also individual countries)

- SCR 99/ 22 (results of EU trawl survey, Div. 3M, Jul 1998)
 106 (shrimp in Div. 3M, Jul 1999)

[F]FAO (Food and Agricultural Organisation)

- SCS 99/ 3 (meeting report, FAO & non-FAO regional fishery bodies)

Faroe Islands (Denmark in respect of Faroe Islands)

- SCR 99/114 (information on shrimp in Div. 3M and Faroese catches, 1996-99)

Feeding: Food

- SCR 99/ 11 (biol. char. and distribution of G. halibut in Flemish Pass, 1998)
 73 (info on shrimp in Div. 3M from stomach analysis of other fish)

Finfishes (see specific names) (see also specific stocks)Fishing effort (see Catch)Fishing gear (see also specific gears)

- SCR 99/ 43 (results of shrimp trawl fitted with size-selective grid)
 46 (performance of shrimp trawl during surveys in SA2+3, 1995-98)
 77 (by-catch reduction of shrimp by modification to trawl)
 96 (by-catch in shrimp fishery, Davis Strait to Div. 3M)
 104 (standardization of fishing power in Norwegian shrimp trawl fleet)
 112 (international shrimp fishery in Div. 3M, 1993-99)

Flemish Cap (Division 3M)

- SCR 99/ 10 (growth and maturity of cod on Flemish Cap, 1980-96)
 14 (roughhead grenadier population structure on Flemish Cap, 1998)
 15 (precautionary approach to shrimp in Div. 3M)
 18 (roughhead grenadier population structure Flemish Cap, 1991-98)
 19 (data on sharks in Div. 3LMNO, 1991-98)
 22 (results of EU trawl survey, Div. 3M, Jul 1998)
 29 (maturity and spawning biomass of cod in Div. 3M)
 31 (length-weight for G. halibut in Div. 2GHJ+3KLMNO, 1990-97)
 39 (assessment of A. plaice in Div. 3M)
 56 (assessment of cod in Div. 3M)
 64 (assessment of roughhead grenadier in SA2+3)
 73 (info on shrimp in Div. 3M from stomach analysis of other fish)
 92 (oceanographic conditions on Flemish Cap, 1998)
 96 (by-catch in shrimp fishery, Davis Strait to Div. 3M)
 101 (oceanographic conditions on Flemish Cap, 1999 vs 1961-90)
 103 (Greenland fishery for shrimp in Div. 3M, 1998-99)
 106 (shrimp in Div. 3M, Jul 1999)
 112 (international shrimp fishery in Div. 3M, 1993-99)
 114 (information on shrimp in Div. 3M and Faroese catches, 1996-99)
 116 (Icelandic shrimp fishery in Div. 3M, 1993-99)

Flemish Pass

- SCR 99/ 11 (biol. char. and distribution of G. halibut in Flemish Pass 1998)

Flounder, witch (*Glyptocephalus cynoglossus*) (see also specific stock)

- SCR 99/ 34 (stock status of witch flounder in Div. 3NO)
 35 (distribution and abundance of witch flo. in Div. 2J+3KL)
 57 (Spanish trawl survey in Div. 3NO, 1999)

Flounder, yellowtail (*Limanda ferruginea*) (see also specific stock)

- SCR 99/ 3 (surplus production analysis of yellowtail in Div. 3LNO)
 5 (fishing mortality and ref. points for yellowtail flo. in Div. 3LNO)
 13 (biomass and approaches to fishery management)
 16 (length at maturity of yellowtail flo. on the Grand Bank, 1995-98)
 23 (tagging experiments with juvenile yellowtail flo. in Div. 3LNO)
 42 (surveys for yellowtail flo. in Div. 3NO, 1996-99)
 44 (information on yellowtail flo. from surveys in Div. 3LNO)
 54 (age and growth of yellowtail flo. in Div. 3LNO from tag returns)
 57 (Spanish trawl survey in Div. 3NO, 1999)
 59 (distribution analyses of juvenile yellowtail flo. on the Grand Bank)
 60 (spatial variation of yellowtail flo. in Div. 3LNO by geostatistics)
 61 (description of yellowtail flo. fishery on Grand Bank in 1998)
 63 (performance of trawl in surveys for yellowtail flo. in Div. 3LNO)
 68 (assessment of yellowtail flo. in Div. 3LNO, 1999)

France

- SCS 99/ 15 (French research report for 1998)

[G]Gadus morhua (see Cod, Atlantic)George's Bank (Subarea 5)Genetics

- SCR 99/ 89 (genetic characterization of shrimp in the NW Atlantic)

Germany

- SCS 99/ 9 (German research report for 1998)

Glyptocephalus cynoglossus (see Flounder, witch)Golden redfish (see Redfish, golden)Grand Bank (Divisions 3LNO including inshore)

- SCR 99/ 3 (surplus production analysis of yellowtail in Div. 3LNO)
 5 (fishing mortality and ref. points for yellowtail flo. in Div. 3LNO)
 16 (length at maturity of yellowtail flo. on the Grand Bank, 1995-98)
 19 (data on sharks in Div. 3LMNO, 1991-98)
 23 (tagging experiments with juvenile yellowtail flo. in Div. 3LNO)
 32 (analysis of near-bottom temperatures in SA2+3)
 34 (stock status of witch flounder in Div. 3NO)
 36 (overview of environmental conditions, NW Atlantic, 1998)
 38 (G. halibut survey data in SA2 and Div. 3KLMNO)
 40 (assessment of A. plaice in Div. 3LNO)
 42 (surveys for yellowtail flo. in Div. 3NO, 1996-99)
 44 (information on yellowtail flo. from surveys in Div. 3LNO)
 46 (performance of shrimp trawl during surveys in SA2+3, 1995-98)
 54 (age and growth of yellowtail flo. in Div. 3LNO from tag returns)
 55 (Canadian survey results for A. plaice in Div. 3LNO)
 57 (Spanish trawl survey in Div. 3NO, 1999)
 58 (VPA analyses of A. plaice in Div. 3LNO, 1975-97)
 59 (distribution analyses of juvenile yellowtail flo. on the Grand Bank)
 60 (spatial variation of yellowtail flo. in Div. 3LNO by geostatistics)
 61 (description of yellowtail flo. fishery on Grand Bank in 1998)
 62 (assessment of cod stock in Div. 3NO)
 63 (performance of trawl in surveys for yellowtail flo. in Div. 3LNO)
 66 (evaluating recovery time from projections for cod in Div. 3NO)
 68 (assessment of yellowtail flo. in Div. 3LNO, 1999)
 69 (impact of by-catch on recovery of A. plaice in Div. 3NO)
 102 (shrimp and groundfish in Div. 3LNO)

Greenland (Denmark in respect of Greenland)

- SCR 99/103 (Greenland fishery for shrimp in Div. 3M, 1998-99)

- SCS 99/ 2 (Denmark-Greenland request for scientific advice for 2000)
 17 (Denmark/Greenland research report for 1998)

Greenland, East (see also Denmark Strait)

- SCR 99/ 17 (climatic conditions around Greenland, 1998)
 20 (assessment of redfish in SA1 from surveys, 1982-98)
 21 (assessment of A. plaice in SA1 from surveys, 1982-98)
 25 (migration of G. halibut stock based on tagging)
 33 (assessment of thorny skate in SA1, 1982-98)
 37 (assessment of A. wolffish off Greenland, 1982-98)
 95 (hydrography and atmosphere off East Greenland on shrimp)
 108 (shrimp fishery off East Greenland, 1987-99)

Greenland, West (Subarea 1)

- SCR 99/ 4 (oceanographic investigation off Greenland, 1998)
 7 (predict temperature in the NW Atlantic by time series analyses)
 17 (climatic conditions around Greenland, 1998)
 20 (assessment of redfish in SA1 from surveys, 1982-98)
 21 (assessment of A. plaice in SA1 from surveys, 1982-98)
 25 (migration of G. halibut stock based on tagging)
 27 (bio. and abundance of demersal stocks off W. Greenland, 1988-98)
 30 (G. halibut survey in Div. 1C-1D, 1998)
 33 (assessment of thorny skate in SA1, 1982-98)
 37 (assessment of A. wolffish off Greenland, 1982-98)
 41 (assessment of redfish in SA1)
 53 (assessment of G. halibut in SA0+1)
 97 (trawl survey for shrimp in West Greenland)
 99 (uncertainty of assessment procedure for shrimp in W. Greenland)
 105 (modifications to trawl survey design for shrimp in W. Greenland)
 107 (shrimp fishery off West Greenland, 1970-99)
 109 (survey for shrimp in SA 0+1, 1999)
 110 (temperature on growth and sex change of shrimp in W. Greenland)
 111 (by-catches of fish in shrimp survey in West Greenland)

Greenland halibut (see Halibut, Greenland)Grenadier, roundnose (*Coryphaenodes rupestris*)

- SCR 99/ 30 (G. halibut survey in Div. 1C-1D, 1998)
 51 (roundnose grenadier in SA 2+3)

Grenadier, roughhead (*Macrourus berglax*)

- SCR 99/ 14 (roughhead grenadier population structure on Flemish Cap, 1998)
 18 (roughhead grenadier population structure Flemish Cap, 1991-98)
 30 (G. halibut survey in Div. 1C-1D, 1998)
 64 (assessment of roughhead grenadier in SA2+3)

Groundfish (see also common names)

- SCR 99/102 (shrimp and groundfish in Div. 3LNO)

Growth

- SCR 99/ 10 (growth and maturity of cod on Flemish Cap, 1980-96)
 18 (roughhead grenadier population structure Flemish Cap, 1991-98)
 20 (assessment of redfish in SA1 from surveys, 1982-98)
 54 (age and growth of yellowtail flo. in Div. 3LNO from tag returns)
 71 (density dependent sex-reversal of shrimp on Scotian Shelf)
 74 (distribution and growth of shrimp in the Barents Sea)
 78 (growth and age of shrimp in the Svalbard Area)
 93 (growth & recruitment overfishing in shrimp fishery in B.C.)
 110 (temperature on growth and sex change of shrimp in W. Greenland)
 114 (information on shrimp in Div. 3M and Faroese catches, 1996-99)

Gulf of Maine (Division 5Y)

- SCR 99/ 36 (overview of environmental conditions, NW Atlantic, 1998)
 90 (review of shrimp in the Gulf of Maine)

Gulf of St. Lawrence (Divisions 4RST)

- SCR 99/ 50 (squid fishery in SA 3+4, 1988)

[H]Hake, silver (*Merluccius bilinearis*)

- SCR 99/ 13 (biomass and approaches to fishery management)

Halibut, Greenland (*Reinhardtius hippoglossoides*) (see also specific stock)

- SCR 99/ 2 (method to project catches in the absence of VPA)
 9 (maturity estimates of G. halibut from surveys)
 11 (biol. char. and distribution of G. halibut in Flemish Pass, 1998)
 22 (results of EU trawl survey, Div. 3M, Jul 1998)
 25 (migration of G. halibut stock based on tagging)
 27 (bio. and abundance of demersal stocks off W. Greenland, 1988-98)
 30 (G. halibut survey in Div. 1C-1D, 1998)
 31 (length-weight for G. halibut in Div. 2GHJ+3KLMNO, 1990-97)
 38 (G. halibut survey data in SA2 and Div. 3KLMNO)
 45 (exploratory fishery for G. halibut in Div. 0A, 1996-98)
 47 (analysis of data for G. halibut in SA0)
 48 (assessment of G halibut in Div. 1A, inshore)
 53 (assessment of G. halibut in SA0+1)
 57 (Spanish trawl survey in Div. 3NO, 1999)

Hippoglossoides platessoides (see Plaice, American)Hydrography (see also specific subjects)

- SCR 99/ 36 (overview of environmental conditions, NW Atlantic, 1998)
 95 (hydrography and atmosphere off East Greenland on shrimp)

[I]Ice: Icebergs

- SCR 99/ 36 (overview of environmental conditions, NW Atlantic, 1998)
 84 (organic carbon sediment data on catch distribution of shrimp)

Iceland

- SCR 99/115 (Icelandic shrimp fishery in Denmark Strait, 1998-99)
 116 (Icelandic shrimp fishery in Div. 3M, 1993-99)

ICES (International Council for the Exploration of the Sea)

- SCS 99/ 13 (report of ICES/NAFO working group on seals)
 18 (observer report of 11th ICES Dialogue meeting, Jan 1999)
 19 (observer report of ICES ACFM meeting, May 1999)

Inshore (see also respective areas)

- SCR 99/ 25 (migration of G. halibut stock based on tagging)
 28 (assessment of cod in Div. 2J+3KL)
 48 (assessment of G halibut in Div. 1A, inshore)
 50 (squid fishery in SA 3+4, 1988)

Irminger Sea

- SCR 99/ 24 (population structure of redfish in Irminger Sea)

[J]Juveniles

- SCR 99/ 20 (assessment of redfish in SA1 from surveys, 1982-98)
 23 (tagging experiments with juvenile yellowtail flo. in Div. 3LNO)
 33 (assessment of thorny skate in SA1, 1982-98)
 41 (assessment of redfish in SA1)
 59 (distribution analyses of juvenile yellowtail flo. on the Grand Bank)

[L]Labrador Area (Subarea 2)

- SCR 99/ 9 (maturity estimates of G. halibut from surveys)
 12 (3rd Russian/German project, climatic variations Labrador Sea)
 28 (assessment of cod in Div. 2J+3KL)
 31 (length-weight for G. halibut in Div. 2GHJ+3KLMNO, 1990-97)
 32 (analysis of near-bottom temperatures in SA2+3)
 35 (distribution and abundance of witch flo. in Div. 2J+3KL)
 36 (overview of environmental conditions, NW Atlantic, 1998)
 38 (G. halibut survey data in SA2 and Div. 3KLMNO)
 46 (performance of shrimp trawl during surveys in SA2+3, 1995-98)
 51 (roundnose grenadier in SA 2+3)
 64 (assessment of roughhead grenadier in SA2+3)
 72 (non-parametric method of estimating bio. of shrimp from surveys)
 96 (by-catch in shrimp fishery, Davis Strait to Div. 3M)
 100 (forecasting fishery performance for shrimp in Div. 2HJ)

Length

- SCR 99/ 10 (growth and maturity of cod on Flemish Cap, 1980-96)
 14 (roughhead grenadier population structure on Flemish Cap, 1998)
 16 (length at maturity of yellowtail flo. on the Grand Bank, 1995-98)
 18 (roughhead grenadier population structure Flemish Cap, 1991-98)
 19 (data on sharks in Div. 3LMNO, 1991-98)
 22 (results of EU trawl survey, Div. 3M, Jul 1998)
 24 (population structure of redfish in Irminger Sea)
 27 (bio. and abundance of demersal stocks off W. Greenland, 1988-98)
 29 (maturity and spawning biomass of cod in Div. 3M)
 30 (G. halibut survey in Div. 1C-1D, 1998)
 31 (length-weight for G. halibut in Div. 2GHJ+3KLMNO, 1990-97)
 33 (assessment of thorny skate in SA1, 1982-98)
 41 (assessment of redfish in SA1)
 42 (surveys for yellowtail flo. in Div. 3NO, 1996-99)
 47 (analysis of data for G. halibut in SA0)
 48 (assessment of G halibut in Div. 1A, inshore)
 50 (squid fishery in SA 3+4, 1988)

- SCR 99/ 52 (assessment of beaked redfish in Div. 3M)
 53 (assessment of G. halibut in SA0+1)
 57 (Spanish trawl survey in Div. 3NO, 1999)
 61 (description of yellowtail flo. fishery on Grand Bank in 1998)
 68 (assessment of yellowtail flo. in Div. 3LNO, 1999)
 73 (info on shrimp in Div. 3M from stomach analysis of other fish)
 107 (shrimp fishery off West Greenland, 1970-99)
 108 (shrimp fishery off East Greenland, 1987-99)
 110 (temperature on growth and sex change of shrimp in W. Greenland)
 114 (information on shrimp in Div. 3M and Faroese catches, 1996-99)
 115 (Icelandic shrimp fishery in Denmark Strait, 1998-99)
 116 (Icelandic shrimp fishery in Div. 3M, 1993-99)

Limanda ferruginea (see Flounder, yellowtail)

Logbook

- SCR 99/104 (standardization of fishing power in Norwegian shrimp trawl fleet)

[M]

Mackerel, Atlantic (*Scomber scombrus*)

- SCR 99/ 13 (biomass and approaches to fishery management)

Macrourus berglax (see Grenadier, roughhead)

Management

- SCR 99/ 1 (fisheries impact assessment, PA for shrimp stocks)
 3 (surplus production analysis of yellowtail in Div. 3LNO)
 5 (fishing mortality and ref. points for yellowtail flo. in Div. 3LNO)
 13 (biomass and approaches to fishery management)
 15 (precautionary approach to shrimp in Div. 3M)
 38 (G. halibut survey data in SA2 and Div. 3KLMNO)
 39 (assessment of A. plaice in Div. 3M)
 70 (environment and ecology in shrimp management on Scotian Shelf)
 75 (management and assessment of shrimp in southeastern Alaska)
 76 (harvest rates for shrimp in surveys in southeast Alaska)
 82 (management and assessment of Pacific Coast shrimp)
 88 (analyses of harvest strategies for shrimp populations)
 93 (growth and recruitment overfishing in shrimp fishery in B.C.)
 94 (management of Canadian shrimp)
 98 (precautionary approach to assessment and management of shrimp)
- SCS 99/ 1 (Canadian request for scientific advice for 2000)
 2 (Denmark-Greenland request for scientific advice for 2000)
 3 (meeting report, FAO & non-FAO regional fishery bodies)
 4 (report of Scientific Council PA meeting, Apr/May 1999)
 18 (observer report of 11th ICES Dialogue meeting, Jan 1999)

Maturation; Maturity

- SCR 99/ 9 (maturity estimates of G. halibut from surveys)
 10 (growth and maturity of cod on Flemish Cap, 1980-96)
 11 (biol. char. and distribution of G. halibut in Flemish Pass, 1998)
 16 (length at maturity of yellowtail flo. on the Grand Bank, 1995-98)
 24 (population structure of redfish in Irminger Sea)
 29 (maturity and spawning biomass of cod in Div. 3M)
 30 (G. halibut survey in Div. 1C-1D, 1998)
 40 (assessment of A. plaice in Div. 3LNO)
 42 (surveys for yellowtail flo. in Div. 3NO, 1996-99)
 48 (assessment of G halibut in Div. 1A, inshore)
 50 (squid fishery in SA 3+4, 1988)
 52 (assessment of beaked redfish in Div. 3M)
 56 (assessment of cod in Div. 3M)
 61 (description of yellowtail flo. fishery on Grand Bank in 1998)
 62 (assessment of cod stock in Div. 3NO)
 68 (assessment of yellowtail flo. in Div. 3LNO, 1999)
 71 (density dependent sex-reversal of shrimp on Scotian Shelf)
 78 (growth and age of shrimp in the Svalbard Area)

Meteorology

- SCR 99/ 36 (overview of environmental conditions, NW Atlantic, 1998)

MEDS (Marine Environmental Data Service)

- SCR 99/ 8 (MEDS report for 1998)

Merluccius bilinearis (see Hake, silver)

Migration

- SCR 99/ 25 (migration of G. halibut stock based on tagging)
 28 (assessment of cod in Div. 2J+3KL)
 49 (migration of squid from survey and fishery data)

Mortality

- SCR 99/ 3 (surplus production analysis of yellowtail in Div. 3LNO)
 18 (roughhead grenadier population structure Flemish Cap, 1991-98)
 21 (assessment of A. plaice in SA1 from surveys, 1982-98)
 26 (trends in population of NW Atlantic harp seals)
 28 (assessment of cod in Div. 2J+3KL)
 33 (assessment of thorny skate in SA1, 1982-98)
 37 (assessment of A. wolffish off Greenland, 1982-98)
 38 (G. halibut survey data in SA2 and Div. 3KLMNO)
 48 (assessment of G halibut in Div. 1A, inshore)
 49 (migration of squid from survey and fishery data)
 52 (assessment of beaked redfish in Div. 3M)
 56 (assessment of cod in Div. 3M)
 62 (assessment of cod stock in Div. 3NO)
 66 (fishery effects on spawner escapement for squid)
 68 (assessment of yellowtail flo. in Div. 3LNO, 1999)

[N]

NAFO (Northwest Atlantic Fisheries Organization)

- SCS 99/ 3 (meeting report, FAO & non-FAO regional fishery bodies)
 13 (report of ICES/NAFO working group on seals)
 18 (observer report of 11th ICES Dialogue meeting, Jan 1999)
 19 (observer report of ICES ACFM meeting, May 1999)

Newfoundland Area (Subarea 3, see also Inshore)

- SCR 99/ 7 (predict temperature in the NW Atlantic by time series analyses)
 9 (maturity estimates of G. halibut from surveys)
 28 (assessment of cod in Div. 2J+3KL)
 31 (length-weight for G. halibut in Div. 2GHJ+3KLMNO, 1990-97)
 32 (analysis of near-bottom temperatures in SA2+3)
 35 (distribution and abundance of witch flo. in Div. 2J+3KL)
 38 (G. halibut survey data in SA2 and Div. 3KLMNO)
 46 (performance of shrimp trawl during surveys in SA2+3, 1995-98)
 50 (squid fishery in SA 3+4, 1988)
 51 (roundnose grenadier in SA 2+3)
 64 (assessment of roughhead grenadier in SA2+3)
 65 (status of redfish in Div. 3LN)

Northeast Atlantic (see Atlantic Ocean, Northeast)

Northwest Atlantic (see Atlantic Ocean, Northwest)

Norway

- SCR 99/104 (standardization of fishing power in Norwegian shrimp trawl fleet)

Nursery

- SCR 99/ 59 (distribution analyses of juvenile yellowtail flo. on the Grand Bank)

[O]Oceanography (see also specific areas)

- SCR 99/ 4 (oceanographic investigation off Greenland, 1998)
 8 (MEDS report for 1998)
 17 (climatic conditions around Greenland, 1998)
 32 (analysis of near-bottom temperatures in SA2+3)
 92 (oceanographic conditions on Flemish Cap, 1998)
 101 (oceanographic conditions on Flemish Cap, 1999 vs 1961-90)

Oxygen

- SCR 99/101 (oceanographic conditions on Flemish Cap, 1999 vs 1961-90)

[P]Pacific Ocean

- SCR 99/ 75 (management and assessment of shrimp in southeastern Alaska)
 76 (harvest rates for shrimp in surveys in southeast Alaska)
 77 (by-catch reduction of shrimp by modification to trawl)
 79 (biology and distribution of shrimp in the Sea of Japan)
 80 (shrimp as an indicator of ocean climate regime shift)
 81 (association between anemone and shrimps off Alaska)
 82 (management and assessment of Pacific Coast shrimp)
 93 (growth and recruitment/overfishing in shrimp fishery in B.C.)

Plaice, American (*Hippoglossoides platessoides*) (see also specific stock)

- SCR 99/ 21 (assessment of A. plaice in SA1 from surveys, 1982-98)
 22 (results of EU trawl survey, Div. 3M, Jul 1998)
 30 (G. halibut survey in Div. 1C-1D, 1998)
 39 (assessment of A. plaice in Div. 3M)
 40 (assessment of A. plaice in Div. 3LNO)
 55 (Canadian survey results for A. plaice in Div. 3LNO)
 57 (Spanish trawl survey in Div. 3NO, 1999)
 58 (VPA analyses of A. plaice in Div 3LNO, 1975-97)
 60 (spatial variation of yellowtail flo. in Div. 3LNO by geostatistics)
 69 (impact of by-catch on recovery of A. plaice in Div. 3NO)

Pleuronectes ferruginea (see Flounder, yellowtail)Portugal

- SCS 99/ 16 (Portuguese research report for 1998)

Precautionary Approach

- SCR 99/ 1 (fisheries impact assessment, PA for shrimp stocks)
 3 (surplus production analysis of yellowtail in Div. 3LNO)
 5 (fishing mortality and ref. points for yellowtail flo. in Div. 3LNO)
 13 (biomass and approaches to fishery management)
 15 (precautionary approach to shrimp in Div. 3M)
 67 (evaluating recovery time from projections for cod in Div. 3NO)
 68 (assessment of yellowtail flo. in Div. 3LNO, 1999)
 98 (precautionary approach to assessment and management of shrimp)

- SCS 99/ 4 (report of Scientific Council PA meeting, Apr/May 1999)
 18 (observer report of 11th ICES Dialogue Jan 1999 meeting)
 19 (observer report of ICES ACFM meeting, May 1999)

Predation

- SCR 99/ 73 (info on shrimp in Div. 3M from stomach analysis of other fish)

Publications

- SCS 99/ 11 (provisional index for 1998 SCR and SCS documents)

[R]Raja sp. (see Skates)Recruitment

- SCR 99/ 20 (assessment of redfish in SA1 from surveys, 1982-98)
 21 (assessment of A. plaice in SA1 from surveys, 1982-98)
 28 (assessment of cod in Div. 2J+3KL)
 29 (maturity and spawning biomass of cod in Div. 3M)
 37 (assessment of A. wolffish off Greenland, 1982-98)
 38 (G. halibut survey data in SA2 and Div. 3KLMNO)
 39 (assessment of A. plaice in Div. 3M)
 40 (assessment of A. plaice in Div. 3LNO)
 41 (assessment of redfish in SA1)
 48 (assessment of G halibut in Div. 1A, inshore)
 53 (assessment of G. halibut in SA0+1)
 65 (status of redfish in Div. 3LN)
 66 (fishery effects on spawner escapement for squid)

Redfishes, Atlantic (*Sebastes* sp.) (see also specific stock)

- SCR 99/ 13 (biomass and approaches to fishery management)
 20 (assessment of redfish in SA1 from surveys, 1982-98)
 22 (results of EU trawl survey, Div. 3M, Jul 1998)
 24 (population structure of redfish in Irminger Sea)
 27 (bio. and abundance of demersal stocks off W. Greenland, 1988-98)
 30 (G. halibut survey in Div. 1C-1D, 1998)
 41 (assessment of redfish in SA1)

Redfish, Acadian (*Sebastes fasciatus*)

- SCR 99/ 65 (status of redfish in Div. 3LN)

Redfish, beaked (*Sebastes mentella*)

- SCR 99/ 41 (assessment of redfish in SA1)
 52 (assessment of beaked redfish in Div. 3M)
 65 (status of redfish in Div. 3LN)

Redfish, golden (*Sebastes marinus*)

- SCR 99/ 41 (assessment of redfish in SA1)

Reference Points

- SCR 99/ 2 (method to project catches in the absence of VPA)
 3 (surplus production analysis of yellowtail in Div. 3LNO)
 5 (fishing mortality and ref. points for yellowtail flo. in Div. 3LNO)
 13 (biomass and approaches to fishery management)
 15 (precautionary approach to shrimp in Div. 3M)
 48 (assessment of G halibut in Div. 1A, inshore)
 65 (status of redfish in Div. 3LN)
 68 (assessment of yellowtail flo. in Div. 3LNO, 1999)

Regulatory Area

- SCR 99/ 2 (method to project catches in the absence of VPA)

Reinhardtius hippoglossoides (see Halibut, Greenland)Research reports (national)

- SCS 99/ 5 (Russian research report for 1998)
 6 (Spanish research report for 1998)
 7 (Cuban research report for 1998)
 8 (US research report for 1998)
 9 (German research report for 1998)
 15 (French research report for 1998)
 16 (Portuguese research report for 1998)
 17 (Denmark/Greenland research report for 1998)
 20 (Canadian research report for 1998)

Roughhead grenadier (see Grenadier, roughhead)

Roundnose grenadier (Grenadier, roundnose)

Russia

SCS 99/ 5 (Russian research report for 1998)

[S]

STACFEN

SCS 99/ 21 (report of Scientific Council June 1999 meeting)

STACFIS

SCS 99/ 21 (report of Scientific Council June 1999 meeting)
23 (report of Scientific Council September 1999 meeting)
24 (report of Scientific Council November 1999 meeting)

STACPUB

SCS 99/ 21 (report of Scientific Council June 1999 meeting)
23 (report of Scientific Council September 1999 meeting)

STACREC

SCS 99/ 21 (report of Scientific Council June 1999 meeting)
23 (report of Scientific Council September 1999 meeting)

Salinity

SCR 99/ 8 (MEDS report for 1998)
17 (climatic conditions around Greenland, 1998)
101 (oceanographic conditions on Flemish Cap, 1999 vs 1961-90)

Sampling, biological

SCR 99/109 (survey for shrimp in SA 0+1, 1999)

SCS 99/ 12 (list of biological sampling for 1998)

Scientific Council

SCS 99/ 4 (report of Scientific Council PA meeting, Apr/May 1999)
13 (report of ICES/NAFO working group on seals)
21 (report of Scientific Council June 1999 meeting)
23 (report of Scientific Council September 1999 meeting)
24 (report of Scientific Council November 1999 meeting)

Scomber scombrus (see Mackerel, Atlantic)

Scotian Shelf

SCR 99/ 50 (squid fishery in SA 3+4, 1988)
70 (environment and ecology in shrimp management on Scotian Shelf)
71 (density dependent sex-reversal of shrimp on Scotian Shelf)

Seals

SCR 99/ 26 (trends in population of NW Atlantic harp seals)

SCS 99/ 13 (report of ICES/NAFO working group on seals)

Sebastes fasciatus (see Redfish, Acadian)

Sebastes marinus (see Redfish, golden)

Sebastes mentella (see Redfish, beaked)

Sebastes sp. (see Redfishes, Atlantic)

Sequential Population Analysis (SPA)

SCR 99/ 56 (assessment of cod in Div. 3M)

Sex composition

SCR 99/ 14 (roughhead grenadier population structure on Flemish Cap, 1998)

Sharks

SCR 99/ 19 (data on sharks in Div. 3LMNO, 1991-98)

Shrimp (Pandalus sp.)

SCR 99/ 1 (fisheries impact assessment, PA for shrimp stocks)
15 (precautionary approach to shrimp in Div. 3M)
43 (results of shrimp trawl fitted with size-selective grid)
70 (environment and ecology in shrimp management on Scotian Shelf)
71 (density dependent sex-reversal of shrimp on Scotian Shelf)
72 (non-parametric method of estimating bio. of shrimp from surveys)
73 (info on shrimp in Div. 3M from stomach analysis of other fish)
74 (distribution and growth of shrimp in the Barents Sea)
75 (management and assessment of shrimp in southeastern Alaska)
76 (harvest rates for shrimp in surveys in southeast Alaska)
77 (by-catch reduction of shrimp by modification to trawl)
78 (growth and age of shrimp in the Svalbard Area)
79 (biology and distribution of shrimp in the Sea of Japan)
80 (shrimp as an indicator of ocean climate regime shift)
81 (association between anemone and shrimps off Alaska)
82 (management and assessment of Pacific Coast shrimp)
83 (prediction from optimum sampling of shrimp in the Barents Sea)
84 (organic carbon sediment data on catch distribution of shrimp)
85 (evaluating 2 assessment methods for shrimp in the NW Atlantic)
86 (abundance of shrimp in Norwegian Deep-sea-Skagerrak, 1984-99)
87 (impact of cod on dynamics of shrimp in the Barents Sea)
88 (analyses of harvest strategies for shrimp populations)
89 (genetic characterization of shrimp in the NW Atlantic)
90 (review of shrimp in the Gulf of Maine)
91 (review of shrimp in the Boreal Area with reference to Russia)
93 (growth and recruitment overfishing in shrimp fishery in B. C.)
94 (management of Canadian shrimp)
95 (hydrography and atmosphere off East Greenland on shrimp)
97 (trawl survey for shrimp in West Greenland)
98 (precautionary approach to assessment and management of shrimp)
99 (uncertainty of assessment procedure for shrimp in W. Greenland)
100 (forecasting fishery performance for shrimp in Div. 2HJ)
102 (shrimp and groundfish in Div. 3LNO)
103 (Greenland fishery for shrimp in Div. 3M, 1998-99)
104 (standardization of fishing power in Norwegian shrimp trawl fleet)
105 (modifications to trawl survey design for shrimp in W. Greenland)
106 (shrimp in Div. 3M, Jul 1999)
107 (shrimp fishery off West Greenland, 1970-99)
108 (shrimp fishery off East Greenland, 1987-99)
109 (survey for shrimp in SA 0+1, 1999)
110 (temperature on growth and sex change of shrimp in W. Greenland)
111 (by-catches of fish in shrimp survey in West Greenland)
112 (international shrimp fishery in Div. 3M, 1993-99)
113 (assessment of shrimp in SA 0+1, 1999)
114 (information on shrimp in Div. 3M and Faroese catches, 1996-99)
115 (Icelandic shrimp fishery in Denmark Strait, 1998-99)
116 (Icelandic shrimp fishery in Div. 3M, 1993-99)

SCS 99/ 24 (report of Scientific Council November 1999 meeting)

Silver hake (see Hake, silver)

Size composition

SCR 99/ 44 (information on yellowtail flo. from surveys in Div. 3LNO)
48 (assessment of G halibut in Div. 1A, inshore)
109 (survey for shrimp in SA 0+1, 1999)

Skates (*Raja* sp.)

- SCR 99/ 33 (assessment of thorny skate in SA1, 1982-98)
57 (Spanish trawl survey in Div. 3NO, 1999)

Spain

- SCR 99/ 19 (data on sharks in Div. 3LMNO, 1991-98)
57 (Spanish trawl survey in Div. 3NO, 1999)

- SCS 99/ 6 (Spanish research report for 1998)

Spawning

- SCR 99/ 21 (assessment of A. plaice in SA1 from surveys, 1982-98)

Squid

- SCR 99/ 49 (migration of squid from survey and fishery data)
50 (squid fishery in SA 3+4, 1988)
66 (fishery effects on spawner escapement for squid)

Statistics

- SCS 99/ 14 (acquisition and publication of statistics since 1998)
22 (report of CWP 18th session, Jul 1999)

Stock, stock size (see also Abundance; Assessment)

- SCR 99/ 20 (assessment of redfish in SA1 from surveys, 1982-98)
21 (assessment of A. plaice in SA1 from surveys, 1982-98)
24 (population structure of redfish in Irminger Sea)
25 (migration of G. halibut stock based on tagging)
26 (trends in population of NW Atlantic harp seals)
34 (stock status of witch flounder in Div. 3NO)
37 (assessment of A. wolffish off Greenland, 1982-98)
44 (information on yellowtail flo. from surveys in Div. 3LNO)

Surveys

- SCR 99/ 5 (fishing mortality and ref. points for yellowtail flo. in Div. 3LNO)
9 (maturity estimates of G. halibut from surveys)
22 (results of EU trawl survey, Div. 3M, Jul 1998)
27 (bio. and abundance of demersal stocks off W. Greenland, 1988-98)
38 (G. halibut survey data in SA2 and Div. 3KLMNO)
40 (assessment of A. plaice in Div. 3LNO)
42 (surveys for yellowtail flo. in Div. 3NO, 1996-99)
44 (information on yellowtail flo. from surveys in Div. 3LNO)
45 (exploratory fishery for G. halibut in Div. 0A, 1996-98)
46 (performance of shrimp trawl during surveys in SA2+3, 1995-98)
53 (assessment of G. halibut in SA0+1)
55 (Canadian survey results for A. plaice in Div. 3LNO)
57 (Spanish trawl survey in Div. 3NO, 1999)
63 (performance of trawl in surveys for yellowtail flo. in Div. 3LNO)
68 (assessment of yellowtail flo. in Div. 3LNO, 1999)
83 (prediction from optimum sampling of shrimp in the Barents Sea)
86 (abundance of shrimp in Norwegian Deeps-Skagerrak, 1984-99)
97 (trawl survey for shrimp in West Greenland)
105 (modifications to trawl survey design for shrimp in W. Greenland)
106 (shrimp in Div. 3M, Jul 1999)

[T]

Tagging (methods, recaptures, returns, etc.)

- SCR 99/ 23 (tagging experiments with juvenile yellowtail flo. in Div. 3LNO)
25 (migration of G. halibut stock based on tagging)
54 (age and growth of yellowtail flo. in Div. 3LNO from tag returns)

- SCS 99/ 10 (tagging activities reported for 1998)

Temperature

- SCR 99/ 4 (oceanographic investigation off Greenland, 1998)
6 (climatic variability and effects on marine ecosystems)
7 (predict temperature in the NW Atlantic by time series analyses)
8 (MEDS report for 1998)
12 (3rd Russian/German project, climatic variations Labrador Sea)
17 (climatic conditions around Greenland, 1998)
32 (analysis of near-bottom temperatures in SA2+3)
36 (overview of environmental conditions, NW Atlantic, 1998)
101 (oceanographic conditions on Flemish Cap, 1999 vs 1961-90)
110 (temperature on growth and sex change of shrimp in W. Greenland)
111 (by-catches of fish in shrimp survey in West Greenland)

Trawls (see also Fishing gear)

- SCR 99/ 46 (performance of shrimp trawl during surveys in SA2+3, 1995-98)
57 (Spanish trawl survey in Div. 3NO, 1999)
63 (performance of trawl in surveys for yellowtail flo. in Div. 3LNO)
77 (by-catch reduction of shrimp by modification to trawl)

[U]

United States of America (USA)

- SCS 99/ 8 (US research report for 1998)

[W]

Weight (see also Catch)

- SCR 99/ 2 (method to project catches in the absence of VPA)
10 (growth and maturity of cod on Flemish Cap, 1980-96)
29 (maturity and spawning biomass of cod in Div. 3M)
31 (length-weight for G. halibut in Div. 2GHJ+3KLMNO, 1990-97)
47 (analysis of data for G. halibut in SA0)
53 (assessment of G. halibut in SA0+1)
65 (status of redfish in Div. 3LN)
66 (fishery effects on spawner escapement for squid)

Witch flounder (see Flounder, witch)Wolffish (*Anarhichas* sp.)

- SCR 99/37 (assessment of A. wolffish off Greenland, 1982-98)

[Y]

Yellowtail flounder (see Flounder, yellowtail)

[A]

- Alekseev, F. E. (Russia)
SCR 99/ 24 (population structure of redfish in Irminger Sea)
- Alpoim, R. (Portugal)
SCR 99/ 52 (assessment of beaked redfish in Div. 3M)
SCS 99/ 16 (Portuguese research report for 1998)
- Alvarez, M. S. (Spain)
SCR 99/ 16 (length at maturity of yellowtail flo. on the Grand Bank, 1995-98)
19 (data on sharks in Div. 3LMNO, 1991-98)
- Anderson, P. J. (USA)
SCR 99/ 80 (shrimp as an indicator of ocean climate regime shift)
81 (association between anemone and shrimps off Alaska)
- Angel, J. R. (Canada)
SCR 99/ 94 (management of Canadian shrimp fishery)
- Armstrong, M. P. (USA)
SCR 99/ 90 (review of shrimp in the Gulf of Maine)
- Aschan, M. (Norway)
SCR 99/ 74 (distribution and growth of shrimp in the Barents Sea)
78 (growth and age of shrimp in the Svalbard area)
- Atkinson, D. B. (Canada)
SCR 99/ 55 (Canadian survey results for A. plaice in Div. 3LNO)
102 (shrimp and groundfish in Div. 3LNO)
- Avila de Melo, A. (Portugal)
SCR 99/ 52 (assessment of beaked redfish in Div. 3M)
SCS 99/ 16 (Portuguese research report for 1998)

[B]

- Beck, P. C. (Canada)
SCR 99/ 50 (squid fishery in SA 3+4, 1988)
- Berenboim, B. I. (Russia)
SCR 99/ 87 (impact of cod on dynamics of shrimp in the Barents Sea)
- Bishop, G. H. (USA)
SCR 99/ 75 (management and assessment of shrimp in southeastern Alaska)
76 (harvest rates for shrimp in surveys in southeast Alaska)
- Boje, J. (Denmark)
SCR 99/ 25 (migration of G. halibut stock based on tagging)
48 (assessment of G halibut in Div. 1A, inshore)
- Boland, G. (Canada)
SCR 99/ 38 (G. halibut survey data in SA2 and Div. 3KLMNO)
- Bond, J. A. (Canada)
SCR 99/ 93 (growth and recruitment overfishing in shrimp fishery in B. C.)

- Borovkov, V. A. (Russia)
SCR 99/ 12 (3rd Russian/German project, climatic variations Labrador Sea)
- Botelho, C. A. (USA)
SCR 99/ 75 (management and assessment of shrimp in southeastern Alaska)
- Boutillier, J. A. (Canada)
SCR 99/ 82 (management and assessment of Pacific Coast shrimp)
93 (growth and recruitment overfishing in shrimp fishery in B. C.)
- Bowering, W. R. (Canada)
SCR 99/ 9 (maturity estimates of G. halibut from surveys)
34 (stock status of witch flounder in Div. 3NO)
35 (distribution and abundance of witch flo. in Div. 2J+3KL)
38 (G. halibut survey data in SA2 and Div. 3KLMNO)
40 (assessment of A. plaice in Div. 3LNO)
- Brattev, J. (Canada)
SCR 99/ 28 (assessment of cod in Div. 2J+3KL)
62 (assessment of cod stock in Div. 3NO)
- Briand, D. (France-SP)
SCS 99/ 15 (French research report for 1998)
- Brodie, W. B. (Canada)
SCR 99/ 5 (fishing mortality and ref. points for yellowtail flo. in Div. 3LNO)
31 (length-weight for G. halibut in Div. 2GHJ+3KLMNO, 1990-97)
38 (G. halibut survey data in SA2 and Div. 3KLMNO)
40 (assessment of A. plaice in Div. 3LNO)
42 (surveys for yellowtail flo. in Div. 3NO, 1996-99)
47 (analysis of data for G. halibut in SA0)
55 (Canadian survey results for A. plaice in Div. 3LNO)
58 (VPA analyses of A. plaice in Div 3LNO, 1975-97)
68 (assessment of yellowtail flo. in Div. 3LNO, 1999)
69 (impact of by-catch on recovery of A. plaice in Div. 3NO)
- Buch, E. (Denmark)
SCR 99/ 4 (oceanographic investigation off Greenland, 1998)
- Buvanovsky, A. I. (Russia)
SCR 99/ 79 (biology and distribution of shrimp in the Sea of Japan)

[C]

- Cadigan, N. G. (Canada)
SCR 99/ 28 (assessment of cod in Div. 2J+3KL)
- Cadrin, S. X. (USA)
SCR 99/ 3 (surplus production analysis of yellowtail in Div. 3LNO)
5 (fishing mortality and ref. points for yellowtail flo. in Div. 3LNO)
85 (evaluating 2 assessment methods for shrimp in the NW Atlantic)
90 (review of shrimp in the Gulf of Maine)
- Carlsson, D. (Denmark)
SCR 99/ 97 (trawl survey for shrimp in West Greenland)
105 (modifications to trawl survey design for shrimp in W. Greenland)
109 (survey for shrimp in SA 0+1, 1999)
110 (temperature on growth and sex change of shrimp in W. Greenland)
111 (by-catches of fish in shrimp survey in West Greenland)

Chamut, P. S. (Canada)

SCS 99/ 1 (Canadian request for scientific advice for 2000)

Clark, J. E. (USA)

SCR 99/ 76 (harvest rates for shrimp in surveys in southeast Alaska)

Clark, S. H. (USA)

SCR 99/ 90 (review of shrimp in the Gulf of Maine)

SCS 99/ 8 (MEDS report for 1998)

Colbourne, E. B. (Canada)

SCR 99/ 32 (analysis of near-bottom temperatures in SA2+3)
36 (overview of environmental conditions, NW Atlantic, 1998)
101 (oceanographic conditions on Flemish Cap, 1999 vs 1961-90)

Convey, L. (Canada)

SCR 99/ 82 (management and assessment of Pacific Coast shrimp)

Cook, R. M. (UK)

SCR 99/ 5 (fishing mortality and ref. points for yellowtail flo. in Div. 3LNO)

Cornus, H. P. (Germany)

SCS 99/ 9 (German research report for 1998)

CWP

SCS 99/ 22 (report of CWP 18th session, Jul 1999)

[D]

Dawe, E. G. (Canada)

SCR 99/ 49 (migration of squid from survey and fishery data)
50 (squid fishery in SA 3+4, 1988)

De Cardenas, E. (Spain)

SCR 99/ 2 (method to project catches in the absence of VPA)
39 (assessment of A. plaice in Div. 3M)
64 (assessment of roughhead grenadier in SA2+3)

SCS 99/ 6 (Spanish research report for 1998)

Del Rio, J. L. (Canada)

SCR 99/ 73 (info on shrimp in Div. 3M from stomach analysis of other fish)

Diodati, P. J. (USA)

SCR 99/ 90 (review of shrimp in the Gulf of Maine)

Dolgov, A. V. (Russia)

SCR 99/ 87 (impact of cod on dynamics of shrimp in the Barents Sea)

Dougherty-Poupore, T. (Canada)

SCR 99/ 8 (MEDS report for 1998)

Drew, J. (Canada)

SCR 99/ 50 (squid fishery in SA 3+4, 1988)

Drinkwater, K. F. (Canada)

SCR 99/ 36 (overview of environmental conditions, NW Atlantic, 1998)

Duran, P. (Spain)

SCR 99/ 16 (length at maturity of yellowtail flo. on the Grand Bank, 1995-98)
19 (data on sharks in Div. 3LMNO, 1991-98)
57 (Spanish trawl survey in Div. 3NO, 1999)

[E]

Engelstoft, J. J. (Greenland)

SCR 99/ 27 (bio. and abundance of demersal stocks off W. Greenland, 1988-98)

Etter, M. (Canada)

SCR 99/ 71 (density dependent sex-reversal of shrimp on Scotian Shelf)

Evans, G. T. (Canada)

SCR 99/ 72 (non-parametric method of estimating bio. of shrimp from surveys)

[F]

Folmer, O. (Greenland)

SCR 99/ 97 (trawl survey for shrimp in West Greenland)

SCS 99/ 17 (Denmark/Greenland research report for 1998)

Fu, C. (USA)

SCR 99/ 88 (analyses of harvest strategies for shrimp populations)
98 (precautionary approach to assessment and management of shrimp)

[G]

Gancedo, R. (Spain)

SCR 99/ 92 (oceanographic conditions on Flemish Cap, 1998)

Garabana, D. (Spain)

SCR 99/106 (shrimp in Div. 3M, Jul 1999)

Garrity, C. (Canada)

SCR 99/ 84 (organic carbon sediment data on catch distribution of shrimp)

Gil, J. (Spain)

SCR 99/ 92 (oceanographic conditions on Flemish Cap, 1998)

Gilbert, D. (Canada)

SCR 99/ 36 (overview of environmental conditions, NW Atlantic, 1998)

Godø, O. R. (Norway)

SCR 99/104 (standardization of fishing power in Norwegian shrimp trawl fleet)

Gregory, G. (Canada)

SCR 99/ 55 (Canadian survey results for A. plaice in Div. 3LNO)

Gundersen, A. C. (Norway)

SCR 99/ 31 (length-weight for G. halibut in Div. 2GHJ+3KLMNO, 1990-97)

[H]Hannah, R. W. (USA)

SCR 99/ 77 (by-catch reduction of shrimp by modification to trawl)

Hansen, H. O. (Norway)

SCR 99/ 78 (growth and age of shrimp in the Svalbard area)

Harbitz, A. (Norway)

SCR 99/ 83 (prediction from optimum sampling of shrimp in the Barents Sea)

Harbo, R. (Canada)

SCR 99/ 82 (management and assessment of Pacific Coast shrimp)

Havmand, S. (Faroes)

SCR 99/ 43 (results of shrimp trawl fitted with size-selective grid)

Hay, D. E. (Canada)

SCR 99/ 82 (management and assessment of Pacific Coast shrimp)

Healey, B. (Canada)

SCR 99/ 26 (trends in population of NW Atlantic harp seals)

Hendrickson, L. C. (USA)

SCR 99/ 66 (fishery effects on spawner escapement for squid)

Hvingel, C. (Greenland)

SCR 99/ 99 (uncertainty of assessment procedure for shrimp in W. Greenland)

107 (shrimp fishery off West Greenland, 1970-99)

108 (shrimp fishery off East Greenland, 1987-99)

[I]ICES

SCS 99/ 13 (report of ICES/NAFO working group on seals)

Igashov, T. M. (Russia)

SCR 99/ 11 (biol. char. and distribution of G. halibut in Flemish Pass, 1998)

SCS 99/ 5 (Russian research report for 1998)

Ivanov, B. G. (Russia)

SCR 99/ 91 (review of shrimp in the Boreal Area with reference to Russia)

[J]Jones, S. A. (USA)

SCR 99/ 77 (by-catch reduction of shrimp by modification to trawl)

Jorgensen, O. A. (Denmark)

SCR 99/ 27 (bio. and abundance of demersal stocks off W. Greenland, 1988-98)

30 (G. halibut survey in Div. 1C-1D, 1998)

53 (assessment of G. halibut in SA0+1)

Junquera, S. (Spain)

SCR 99/ 2 (method to project catches in the absence of VPA)

16 (length at maturity of yellowtail flo. on the Grand Bank, 1995-98)

19 (data on sharks in Div. 3LMNO, 1991-98)

29 (maturity and spawning biomass of cod in Div. 3M)

64 (assessment of roughhead grenadier in SA2+3)

SCS 99/ 6 (Spanish research report for 1998)

[K]Kannevorff, P. (Greenland)

SCR 99/ 97 (trawl survey for shrimp in West Greenland)

105 (modifications to trawl survey design for shrimp in W. Greenland)

109 (survey for shrimp in SA 0+1, 1999)

110 (temperature on growth and sex change of shrimp in W. Greenland)

111 (by-catches of fish in shrimp survey in West Greenland)

Kingslev, M. C. S. (Greenland)

SCR 99/ 97 (trawl survey for shrimp in West Greenland)

99 (uncertainty of assessment procedure for shrimp in W. Greenland)

105 (modifications to trawl survey design for shrimp in W. Greenland)

109 (survey for shrimp in SA 0+1, 1999)

111 (by-catches of fish in shrimp survey in West Greenland)

Kiseleva, V. M. (Russia)

SCR 99/ 10 (growth and maturity of cod on Flemish Cap, 1980-96)

SCS 99/ 5 (Russian research report for 1998)

Koeller, P. A. (Canada)

SCR 99/ 1 (fisheries impact assessment, PA for shrimp stocks)

70 (environment and ecology in shrimp management on Scotian Shelf)

71 (density dependent sex-reversal of shrimp on Scotian Shelf)

98 (precautionary approach to assessment and management of shrimp)

Koeneman, T. M. (USA)

SCR 99/ 75 (management and assessment of shrimp in southeastern Alaska)

76 (harvest rates for shrimp in surveys in southeast Alaska)

Korzhev, V. A. (Russia)

SCR 99/ 87 (impact of cod on dynamics of shrimp in the Barents Sea)

Kruse, G. H. (USA)

SCR 99/ 88 (analyses of harvest strategies for shrimp populations)

Kulka, D. W. (Canada)

SCR 99/ 61 (description of yellowtail flo. fishery on Grand Bank in 1998)

96 (by-catch of shrimp in Davis Strait and Div. 3M)

SCS 99/ 20 (Canadian research report for 1998)

[L]Lilly, G. R. (Canada)

SCR 99/ 28 (assessment of cod in Div. 2J+3KL)

Lloret, J. (Spain)

SCR 99/ 7 (predict temperature in the NW Atlantic by time series analyses)

21 (assessment of A. plaice in SA1 from surveys, 1982-98)

33 (assessment of thorny skate in SA1, 1982-98)

[M]Maddock-Parsons, D. (Canada)

- SCR 99/ 42 (surveys for yellowtail flo. in Div. 3NO, 1996-99)
 44 (information on yellowtail flo. from surveys in Div. 3LNO)
 58 (VPA analyses of A. plaice in Div 3LNO, 1975-97)
 65 (status of redfish in Div. 3LN)

Mahe, J.-C. (France)

- SCR 99/ 56 (assessment of cod in Div. 3M)

SCR 99/ 15 (French research report for 1998)

McCallum B. R. (Canada)

- SCR 99/ 46 (performance of shrimp trawl during surveys in SA2+3, 1995-98)
 63 (performance of trawl in surveys for yellowtail flo. in Div. 3LNO)

McCarron, D. (USA)

- SCR 99/ 90 (review of shrimp in the Gulf of Maine)

Mohn, R. (Canada)

- SCR 99/ 71 (density dependent sex-reversal of shrimp on Scotian Shelf)

Moller, V. (Germany)

- SCR 99/ 37 (assessment of A. wolffish off Greenland, 1982-98)

Morgan, M. J. (Canada)

- SCR 99/ 9 (maturity estimates of G. halibut from surveys)
 23 (tagging experiments with juvenile yellowtail flo. in Div. 3LNO)
 38 (G. halibut survey data in SA2 and Div. 3KLMNO)
 40 (assessment of A. plaice in Div. 3LNO)
 54 (age and growth of yellowtail flo. in Div. 3LNO from tag returns)
 55 (Canadian survey results for A. plaice in Div. 3LNO)
 58 (VPA analyses of A. plaice in Div 3LNO, 1975-97)
 68 (assessment of yellowtail flo. in Div. 3LNO, 1999)
 69 (impact of by-catch on recovery of A. plaice in Div. 3NO)

Motos, L. (Spain)

- SCR 99/ 2 (method to project catches in the absence of VPA)
 56 (assessment of cod in Div. 3M)

Murphy, E. F. (Canada)

- SCR 99/ 28 (assessment of cod in Div. 2J+3KL)
 32 (analysis of near-bottom temperatures in SA2+3)
 62 (assessment of cod stock in Div. 3NO)

Murua, H. (Spain)

- SCR 99/ 14 (roughhead grenadier population structure on Flemish Cap, 1998)
 18 (roughhead grenadier population structure Flemish Cap, 1991-98)
 64 (assessment of roughhead grenadier in SA2+3)

SCR 99/ 6 (Spanish research report for 1998)

[N]NAFO

- SCR 99/ 4 (report of Scientific Council PA meeting, Apr/May 1999)
 13 (report of ICES/NAFO working group on seals)
 21 (report of Scientific Council June 1999 meeting)
 23 (report of Scientific Council September 1999 meeting)
 24 (report of Scientific Council November 1999 meeting)

NAFO Secretariat

- SCR 99/ 10 (tagging activities reported for 1998)
 11 (provisional index for 1998 SCR and SCS documents)
 12 (list of biological sampling for 1998)
 14 (acquisition and publication of statistics since 1998)

Nicolajsen, A. (Faroes)

- SCR 99/114 (information on shrimp in Div. 3M and Faroese catches, 1996-99)

[O]Orr, D. C. (Canada)

- SCR 99/ 72 (non-parametric method of estimating bio. of shrimp from surveys)
 102 (shrimp and groundfish in Div. 3LNO)
 112 (international shrimp fishery in Div. 3M, 1993-99)

[P]Parsons, D. G. (Canada)

- SCR 99/ 15 (precautionary approach to shrimp in Div. 3M)
 72 (non-parametric method of estimating bio. of shrimp from surveys)
 84 (organic carbon sediment data on catch distribution of shrimp)
 89 (genetic characterization of shrimp in the NW Atlantic)
 98 (precautionary approach to assessment and management of shrimp)
 100 (forecasting fishery performance for shrimp in Div. 2HJ)
 102 (shrimp and groundfish in Div. 3LNO)
 112 (international shrimp fishery in Div. 3M, 1993-99)

Paz, X. (Spain)

- SCR 99/ 19 (data on sharks in Div. 3LMNO, 1991-98)
 57 (Spanish trawl survey in Div. 3NO, 1999)

Pedersen, P. M. (Greenland)

- SCR 99/ 2 (Denmark-Greenland request for scientific advice for 2000)

Pennington, M. (USA)

- SCR 99/ 97 (trawl survey for shrimp in West Greenland)

Power, D. (Canada)

- SCR 99/ 38 (G. halibut survey data in SA2 and Div. 3KLMNO)
 51 (roundnose grenadier in SA 2+3)
 65 (status of redfish in Div. 3LN)
 68 (assessment of yellowtail flo. in Div. 3LNO, 1999)

[Q]Quinn II, T. J. (USA)

- SCR 99/ 88 (analyses of harvest strategies for shrimp populations)

[R]Ramos, I. (Cuba)

- SCR 99/ 7 (Cuban research report for 1998)

Ramseier, R. O. (Canada)

- SCR 99/ 84 (organic carbon sediment data on catch distribution of shrimp)

- Rätz, H.-J. (Germany)
 SCR 99/ 20 (assessment of redfish in SA1 from surveys, 1982-98)
 21 (assessment of A. plaice in SA1 from surveys, 1982-98)
 33 (assessment of thorny skate in SA1, 1982-98)
 37 (assessment of A. wolffish off Greenland, 1982-98)
 41 (assessment of redfish in SA1)
- SCS 99/ 9 (German research report for 1998)
- Rikhter, V. A. (Russia)
 SCR 99/ 13 (biomass and approaches to fishery management)
- SCS 99/ 5 (Russian research report for 1998)
- Rivard, D. (Canada)
 SCR 99/ 5 (fishing mortality and ref. points for yellowtail flo. in Div. 3LNO)
 67 (evaluating recovery time from projections for cod in Div. 3NO)
 69 (impact of by-catch on recovery of A. plaice in Div. 3NO)
- Rodriguez-Marin, E. (Spain)
 SCR 99/ 14 (roughhead grenadier population structure on Flemish Cap, 1998)
 18 (roughhead grenadier population structure Flemish Cap, 1991-98)
 73 (info on shrimp in Div. 3M from stomach analysis of other fish)
- [S]
- Saborido-Rev, F. (Spain)
 SCR 99/ 29 (maturity and spawning biomass of cod in Div. 3M)
 52 (assessment of beaked redfish in Div. 3M)
- Salthaug, A. (Norway)
 SCR 99/104 (standardization of fishing power in Norwegian shrimp trawl fleet)
- Sanchez, R. (Spain)
 SCR 99/ 92 (oceanographic conditions on Flemish Cap, 1998)
- Santos, E. (Portugal)
 SCS 99/ 16 (Portuguese research report for 1998)
- Sarasua, A. (Spain)
 SCR 99/ 14 (roughhead grenadier population structure on Flemish Cap, 1998)
 18 (roughhead grenadier population structure Flemish Cap, 1991-98)
- Savard, L. (Canada)
 SCR 99/ 15 (precautionary approach to shrimp in Div. 3M)
 89 (genetic characterization of shrimp in the NW Atlantic)
 98 (precautionary approach to assessment and management of shrimp)
- Schick, D. F. (USA)
 SCR 99/ 90 (review of shrimp in the Gulf of Maine)
- Scientific Council Chair
 SCS 99/ 3 (meeting report, FAO & non-FAO regional fishery bodies)
 18 (observer report of 11th ICES Dialogue meeting, Jan 1999)
 19 (observer report of ICES ACFM meeting, May 1999)
- Sevigny, J.-M. (Canada)
 SCR 99/ 89 (genetic characterization of shrimp in the NW Atlantic)
- Shelton, P. A. (Canada)
 SCR 99/ 26 (trends in population of NW Atlantic harp seals)
 28 (assessment of cod in Div. 2J+3KL)
 62 (assessment of cod stock in Div. 3NO)
 67 (evaluating recovery time from projections for cod in Div. 3NO)
- Siegstad, H. (Greenland)
 SCR 99/103 (Greenland fishery for shrimp in Div. 3M, 1998-99)
 113 (assessment of shrimp in SA 0+1, 1999)
- Sigaev, I. K. (Russia)
 SCS 99/ 5 (Russian research report for 1998)
- Simonsen, C. S. (Greenland)
 SCR 99/ 48 (assessment of G halibut in Div. 1A, inshore)
- Simpson, M. (Canada)
 SCR 99/ 42 (surveys for yellowtail flo. in Div. 3NO, 1996-99)
 44 (information on yellowtail flo. from surveys in Div. 3LNO)
 59 (distribution analyses of juvenile yellowtail flo. on the Grand Bank)
 60 (spatial variation of yellowtail flo. in Div. 3LNO by geostatistics)
- Sjare, B. (Canada)
 SCR 99/ 26 (trends in population of NW Atlantic harp seals)
- Skuladottir, U. (Iceland)
 SCR 99/112 (international shrimp fishery in Div. 3M, 1993-99)
 115 (Icelandic shrimp fishery in Denmark Strait, 1998-99)
 116 (Icelandic shrimp fishery in Div. 3M, 1993-99)
- Smith, B. (Canada)
 SCR 99/ 55 (Canadian survey results for A. plaice in Div. 3LNO)
- Sosebee, K. (USA)
 SCS 99/ 8 (US research report for 1998)
- Stansbury, D. E. (Canada)
 SCR 99/ 28 (assessment of cod in Div. 2J+3KL)
 62 (assessment of cod stock in Div. 3NO)
 67 (evaluating recovery time from projections for cod in Div. 3NO)
 69 (impact of by-catch on recovery of A. plaice in Div. 3NO)
- Stein, M. (Germany)
 SCR 99/ 6 (climatic variability and effects on marine ecosystems)
 7 (predict temperature in the NW Atlantic by time series analyses)
 12 (3rd Russian/German project, climatic variations Labrador Sea)
 17 (climatic conditions around Greenland, 1998)
 95 (hydrography and atmosphere off East Greenland on shrimp)
- SCS 99/ 9 (German research report for 1998)
- Stenson, G. B. (Canada)
 SCR 99/ 26 (trends in population of NW Atlantic harp seals)
- Stevens, B. G. (USA)
 SCR 99/ 81 (association between anemone and shrimps off Alaska)
- Stransky, C. (Germany)
 SCR 99/ 20 (assessment of redfish in SA1 from surveys, 1982-98)

Sullivan, D. (Canada)

SCR 99/102 (shrimp and groundfish in Div. 3LNO)

[T]

Tillman, J. M. (Canada)

SCS 99/ 20 (Canadian research report for 1998)

Treble, M. (Canada)

SCR 99/ 45 (exploratory fishery for G. halibut in Div. 0A, 1996-98)

Tveite, S. (Norway)

SCR 99/ 86 (abundance of shrimp in Norwegian Deeps-Skagerrak, 1984-99)

[V]

Valdes, E. (Cuba)

SCS 99/ 7 (Cuban research report for 1998)

Valencia, V. (Spain)

SCR 99/ 92 (oceanographic conditions on Flemish Cap, 1998)

Vargas, J. (Portugal)

SCS 99/ 16 (Portuguese research report for 1998)

Vaskov, A. A. (Russia)

SCS 99/ 5 (Russian research report for 1998)

Vazquez, A. (Spain)

SCR 99/ 22 (results of EU trawl survey, Div. 3M, Jul 1998)
56 (assessment of cod in Div. 3M)

SCS 99/ 6 (Spanish research report for 1998)

Veitch, M. J. (Canada)

SCR 99/ 44 (information on yellowtail flo. from surveys in Div. 3LNO)
68 (assessment of yellowtail flo. in Div. 3LNO, 1999)

Veitch, P. J. (Canada)

SCR 99/ 72 (non-parametric method of estimating bio. of shrimp from surveys)
102 (shrimp and groundfish in Div. 3LNO)

[W]

Walsh, S. J. (Canada)

SCR 99/ 3 (surplus production analysis of yellowtail in Div. 3LNO)
5 (fishing mortality and ref. points for yellowtail flo. in Div. 3LNO)
23 (tagging experiments with juvenile yellowtail flo. in Div. 3LNO)
42 (surveys for yellowtail flo. in Div. 3NO, 1996-99)
44 (information on yellowtail flo. from surveys in Div. 3LNO)
46 (performance of shrimp trawl during surveys in SA2+3, 1995-98)
54 (age and growth of yellowtail flo. in Div. 3LNO from tag returns)
59 (distribution analyses of juvenile yellowtail flo. on the Grand Bank)
60 (spatial variation of yellowtail flo. in Div. 3LNO by geostatistics)
63 (performance of trawl in surveys for yellowtail flo. in Div. 3LNO)
68 (assessment of yellowtail flo. in Div. 3LNO, 1999)

Whalen, K. S. (Canada)

SCR 99/ 59 (distribution analyses of juvenile yellowtail flo. on the Grand Bank)

[Y]

Yaragina, N. A. (Russia)

SCR 99/ 87 (impact of cod on dynamics of shrimp in the Barents Sea)

[Z]

Zachariassen, K. (Faroes)

SCR 99/ 43 (results of shrimp trawl fitted with size-selective grid)