



# **SHELLFISH SYMPOSIUM**

**Programme for 5–7 November in Tromsø, Norway, 2019**

*Click on the titles below*

**5 November**

**6 November**

**7 November**

**Short overview**

**List of posters**

4 November, 2019

18:30

Registration and Ice-breaker at IMR at Framsenderet

5 November, 2019		6 November, 2019		7 November, 2019	
08:00	Desk opens	08:30	Desk opens	08:30	Desk opens
<b>Opening</b>		<b>Managing shellfish fisheries (D)</b>		<b>New ways of harvesting shellfish (C)</b>	
08:30 to 09:10	Welcome	09:00 to 09:05	<b>CHAIRS:</b> Hoel & Degnbol	09:00 to 09:10	Bakke
09:10 to 09:20	About submitting your manuscript	09:05 to 09:25	<b>KEYNOTE:</b> Landmark	09:15 to 09:25	Lorentzen
09:25 to 09:55	Opening <b>KEYNOTE</b>	09:30 to 09:50	<b>KEYNOTE:</b> Johnsen	09:30 to 09:40	Voldnes
	Coffee break	09:55 to 10:05	Sokolov	09:45 to 09:55	Discussion
<b>Shellfish in new and changing environments (A)</b>		10:10 to 10:20	Stesko	<b>Assessment and population dynamics of shellfish (B)</b>	
10:15 to 10:20	<b>CHAIRS:</b> Agnalt & Sainte-Marie	10:25 to 10:35	Sokolov	10:00 to 10:05	<b>CHAIRS:</b> Hvingel & Kruse
10:20 to 10:50	<b>KEYNOTE:</b> Wahle		Coffee break	10:10 to 10:40	<b>KEYNOTE:</b> Szuwalski
10:55 to 11:05	Therriault	10:55 to 11:05	Sundet		Coffee break
11:10 to 11:20	Laugen	11:10 to 11:20	Hansen	11:00 to 11:10	Strand
11:25 to 11:35	Pugh	11:25 to 11:35	Søvik	11:15 to 11:25	Thorarinsdóttir
	Lunch	11:40 to 11:50	Mullowney	11:30 to 11:40	Bureau
12:45 to 12:55	Bogstad	11:55 to 12:05	Fernandez	11:45 to 11:55	Hvingel
13:00 to 13:10	Wood	12:10 to 12:20	Kaiser	12:00 to 12:10	Jónsdóttir
13:15 to 13:25	Strand	12:25 to 12:35	Nøstvold	12:15 to 12:25	Zhang
13:30 to 13:40	Gardner		Lunch		Lunch
13:45 to 13:55	Michelsen	13:50 to 14:00	Eliassen	13:35 to 13:45	Zimmermann
14:00 to 14:10	Sundet	14:05 to 14:15	Boudreau	13:50 to 14:00	Søvik
14:15 to 14:25	Sainte-Marie	14:20 to 14:30	Cavallo	14:05 to 14:15	Zimmermann
14:30 to 14:40	Andersen	14:35 to 15:00	<b>Discussion</b>	14:20 to 14:30	Coleman
	Coffee break		Coffee break	14:35 to 14:45	Hvingel
15:00 to 15:10	Stockhausen	<b>New ways of harvesting shellfish (C)</b>		14:50 to 15:00	Mesquita
15:15 to 15:25	Huserbråten	15:20 to 15:25	<b>CHAIRS:</b> Siikavuopio & Løkkeborg		Coffee break
15:30 to 15:40	Pedersen	15:25 to 15:55	<b>KEYNOTE:</b> Stevens	15:20 to 15:30	Hvingel
15:45 to 15:55	Zakharov	16:00 to 16:10	James	15:35 to 15:45	Descomps
16:00 to 16:10	Gislason	16:15 to 16:25	Araya-Schmidt	15:50 to 16:15	<b>Discussion</b>
16:15 to 16:25	Jonasson	16:30 to 16:40	Donovan	16:20 to 16:45	<b>Closing</b>
16:30 to 16:40	Escobar Lux	16:45 to 16:55	Hustad		
16:45 to 16:55	Freitas	17:00 to 17:10	Lian		
17:00 to 17:25	<b>Discussion</b>	17:15 to 18:15	Poster exhibition		
17:30 to 18:30	Poster exhibition	19:00	Conference dinner		
19:00 to 20:00	Guided city walk				
20:00	Visit at Full Steam with light dinner				

## 5 November, 2019

<b>08:00</b>	Desk opens
<b>Opening</b>	
<b>08:30 to 09:10</b>	<b>Welcome</b>
<b>09:10 to 09:20</b>	<b>Everything that you need to know about submitting your manuscript for publication in the Shellfish Symposium issue of the ICES Journal of Marine Science</b> <u>Howard I. Browman</u>
<b>09:25 to 09:55</b>	<b>KEYNOTE: Dynamics of snow crab in the eastern Bering Sea and US portions of the Chukchi and Beaufort seas under climate change</b> <u>Gordon H. Kruse</u> , Lauren M. Divine, Laura M. Slater, Joel B. Webb
Coffee break	
<b>Shellfish in new and changing environments (Session A)</b>	
<b>10:15 to 10:20</b>	<b>CHAIRS:</b> Ann-Lisbeth Agnalt, Institute of Marine Research, Norway, and Bernard Sainte-Marie, Pêches et Océans Canada, Canada
<b>10:20 to 10:50</b>	<b>KEYNOTE: The American Lobster – Poster Child of a Changing Marine Ecosystem</b> <u>Richard A. Wahle</u>
<b>10:55 to 11:05</b>	<b>Changing Shellfish Invasions Under Climate Change: characterizing and predicting distributions and harvest opportunities</b> <u>Thomas Therriault</u> , Devin Lyons, Claudio DiBacco, Ben Lowen
<b>11:10 to 11:20</b>	<b>Pacific oysters in Scandinavian waters; harvesting potential and impact on local bivalves</b> <u>Ane T. Laugen</u> , Matthias Obst, Åsa Strand
<b>11:25 to 11:35</b>	<b>Challenges facing a lobster stock on the 'losing' end of climate change</b> <u>Tracy L. Pugh</u> , Robert P. Glenn
Lunch	
<b>12:45 to 12:55</b>	<b>Snow crab (<i>Chionoecetes opilio</i>), a new food item for North-East Arctic cod (<i>Gadus morhua</i>) in the Barents Sea?</b> <u>Rebecca E. Holt</u> , Carsten Hvingel, Ann Lisbeth Agnalt, Andrey V. Dolgov, Ann Merete Hjelset, <u>Bjarne Bogstad</u>
<b>13:00 to 13:10</b>	<b>Assessing the life history of soft-shell clams (<i>Mya truncata</i>) of Baffin Island, Canada: Implications for sustainable Arctic fisheries</b> <u>Jessica Wood</u> , Meghan Donovan, Scott M. Grant
<b>13:15 to 13:25</b>	<b>Observations and monitoring the possible disappearance of local blue mussel populations in Norway – Mussels on the move?</b> <u>Tore Strohmeier</u> , Stein Mortensen, Ellen. S. Grefsrud, Lars-Johan Naustvoll, <u>Øivind Strand</u>
<b>13:30 to 13:40</b>	<b>An investigation of annual and biennial reproductive cycles for Eastern Bering Sea snow crab (<i>Chionoecetes opilio</i>), 2014-2018</b> <u>Jennifer Gardner</u> , Katherine Swiney, Robert Foy, Christopher Long
<b>13:45 to 13:55</b>	<b>Temporal and spatial dynamics of the invasive red king crab and native brachyuran and anomuran larvae in Norwegian waters</b> <u>Helena Kling Michelsen</u> , Einar Magnus Nilssen, Torstein Pedersen, Camilla Svensen
<b>14:00 to 14:10</b>	<b>Stomach content of the snow crab (<i>Chionoecetes opilio</i>) from the Barents Sea</b> <u>Jan H. Sundet</u> , Caroline Aas Tranang, Einar M. Nilssen, Maria Jenssen
<b>14:15 to 14:25</b>	<b>Temperature effects on snow crab (<i>Chionoecetes opilio</i>) growth and size after terminal molt</b> <u>Bernard Sainte-Marie</u> , Jean-François Ouellet, H��l��ne Dionne
<b>14:30 to 14:40</b>	<b>Temperature effects on growth and molt regulatory genes in red king crab</b> <u>��ivind Andersen</u> , Hanne Johnsen, Tina Thesslund, Ragnhild Stenberg Berg, Sten Siikavuopio, Donald Mykles, Astrid Wittmann
Coffee break	
<b>15:00 to 15:10</b>	<b>Predicting the impact of climate change on spatial patterns of early life connectivity for snow crab (<i>Chionoecetes opilio</i>) in the eastern Bering Sea using an Individual-Based Model</b> <u>William T. Stockhausen</u> , Michael Torre, Christine Stawitz, Albert J. Hermann, Wei Cheng, Kelly Kearney, Kerim Aydin, Cody
<b>15:15 to 15:25</b>	<b>Understanding the early life history of the invading snow crab (<i>Chionoecetes opilio</i>) in the Barents Sea</b> <u>Mats Huserbr��ten</u> , Carsten Hvingel, Hanna Danielsen, Ann-Lisbeth Agnalt
<b>15:30 to 15:40</b>	<b>Retention of red king crab (<i>Paralithodes camtschaticus</i>) larvae in a sub-arctic fjord system – A modeling study</b> <u>Ole Petter Pedersen</u> , Einar Magnus Nilssen, Dag Slagstad
<b>15:45 to 15:55</b>	<b>Warming in the Arctic and distribution of the northern shrimp in the Barents Sea and adjacent waters</b> <u>Denis V. Zakharov</u>
<b>16:00 to 16:10</b>	<b>Invasion of the Atlantic rock crab (<i>Cancer irroratus</i>) to Europe</b> <u>Sindri Gislason</u> , Sn��bjorn Palsson, Hermann Dreki Guls, Jorundur Svavarsson, Jonas Pall Jonasson, Halldor P. Halldorsson
<b>16:15 to 16:25</b>	<b>Decadal fluctuations of <i>Nephrops norvegicus</i> in Icelandic waters</b> <u>Jonas Pall Jonasson</u> , Julian Burgos
<b>16:30 to 16:40</b>	<b>The toxicity of the chemotherapeutant, hydrogen peroxide, on European Lobster (<i>Homarus gammarus</i>) larvae and post-larvae</b> <u>Rosa Helena Escobar Lux</u> , Aoife E. Parsons, Ole B. Samuelsen, Ann-Lisbeth Agnalt
<b>16:45 to 16:55</b>	<b>The recent expansion of the Pacific oyster, <i>Cassostrea gigas</i>, in Denmark</b> <u>Pedro S. Freitas</u> , Pernille Nielsen, Antonio Ag��era Garc��a, Camille Saurel, Jens K. Petersen
<b>17:00 to 17:25</b>	<b>Discussion</b>
<b>17:30 to 18:30</b>	Poster exhibition
<b>19:00 to 20:00</b>	Guided city walk
<b>20:00</b>	Visit at Full Steam with light dinner

## 6 November, 2019

08:30 Desk opens

### Managing shellfish fisheries (Session D)

09:00 to 09:05 **CHAIRS:** Alf Håkon Hoel, The Arctic University of Norway, Norway and Poul Degnbol, University of Aalborg, Denmark

09:05 to 09:25 **KEYNOTE: Norwegian fisheries management – shellfish**

Elisabeth Sørdaahl on behalf of Vidar J. Landmark

09:30 to 09:50 **KEYNOTE: How to govern ungovernable objects?**

Jahn Petter Johnsen

09:55 to 10:05 **Russian scallop fishery: happiness or experience?**

Igor E. Manushin, Darya Yu. Blinova (Presenter: Konstatin Sokolov)

10:10 to 10:20 **Bycatches of the red king crab in bottom fish fishery in the Russian waters of the Barents Sea. Assessment and regulations**

Alexey V. Stesko, Sergey V. Bakanev

10:25 to 10:35 **Russian fishery for red king crab in the Barents Sea: results of first decades**

Konstantin M. Sokolov, Sergey V. Bakanev

Coffee break

10:55 to 11:05 **Sustainability in the management of two important arctic crabs: the red king crab (*Paralithodes camtschaticus*) and the snow crab (*Chionoecetes opilio*)**

Jan H. Sundet, Alf Håkon Hoel

11:10 to 11:20 **Snow crab in the Barents Sea – winner or villain?**

Cecilie Hansen, Erik Askov Mousing, Carsten Hvingel

11:25 to 11:35 **Does population genetic structure in Norway lobster (*Nephrops norvegicus*) call for a revision of the current management in Kattegat, Skagerrak, and the Norwegian deep?**

Jon-Ivar Westgaard, Guldborg Søvik, Torild Johansen

11:40 to 11:50 **Managing the Confluence of Climate and Fishing Effects in Snow Crab**

Darrell Mullowney

11:55 to 12:05 **Walking a Tight Line: Management of a New Arctic Fishery In the Presence of Spatially Differentiated Ecological-Economic Externalities**

Linda Fernandez, Brooks Kaiser, Melina Kourantidou

12:10 to 12:20 **Ecological and Economic Globalization in Arctic and sub-Arctic Crab Fisheries**

Brooks A. Kaiser, M Kourantidou, D Ahsan, S Bakanev, A Burmeister, G Eckert, L.M. Fernandez, H.P. Hong, A.A. Monsalve, D. Mullowney, A. Nielsen, B.H. Nøstvold, H. Park, E. Poulsen, L. Ravn-Jonsen, C. Siddon, J.H. Sundet, K. Tokunaga, M. Yamamoto

12:25 to 12:35 **Stock Management – balancing security and innovation**

Björg Helen Nøstvold, Gøril Voldnes

Lunch

13:50 to 14:00 **Catches in abandoned snow crab pots in the Barents Sea**

Lasse Krøger Eliassen, Odd-Børre Humborstad, Ann Merete Hjelseth, Anette Hustad, Svein Løkkeborg, Gustav Martinsen, Sten Siikavuopio, Martin Wiech

14:05 to 14:15 **Who's on the line, please? Using telephone surveys to learn more about the southern Gulf of St. Lawrence American lobster fishery**

Stephanie A. Boudreau, David Giard

14:20 to 14:30 **The third dimension of sustainable aquaculture: social well-being. The case of France, Italy and Spain**

Marianna Cavallo, José A. Pérez Agúndez, Pascal Raux, Katia Frangoudes

14:35 to 15:00 **Discussion**

Coffee break

### New ways of harvesting shellfish (Session C)

15:20 to 15:25 **CHAIRS:** Sten I. Siikavuopio, Nofima, Norway and Svein Løkkeborg, Institute of Marine Research, Norway

15:25 to 15:55 **KEYNOTE: The Ups and Downs of Trap Fishing**

Bradley Stevens

16:00 to 16:10 **Sea urchin harvesting in Norway: a challenge for past and present!**

Philip James

16:15 to 16:25 **Alternative bait trials in the Barents Sea snow crab fishery**

Tomas Araya-Schmidt, Leonore Olsen, Lasse Rindahl, Roger B. Larsen, and Paul D. Winger

16:30 to 16:40 **Lights! Sound! Action? The Effects of Novel Stimuli on the Catch Rates of Snow Crab (*Chionoecetes opilio*)**

Meghan Donovan, Khanh Q. Nguyen, Jessica Wood, Paul D. Winger, Svein Løkkeborg, Odd-Børre Humborstad, Shannon M. Bayse

16:45 to 16:55 **Injury scoring of King crab (*Paralithodes camtschaticus*) and Snow crab (*Chionoecetes opilio*) after capture and live holding**

Anette Hustad

17:00 to 17:10 **Live holding of red king crab (*Paralithodes camtschaticus*) – Effect of time, temperature and feeding on the quality of processed clusters**

Federico Lian, Grete Lorentzen, Sten Ivar Siikavuopio

17:15 to 18:15 **Poster exhibition**

19:00 **Conference dinner**

## 7 November, 2019

08:30 Desk opens

### New ways of harvesting shellfish (Session C)

09:00 to 09:10 **Live transport of *Pandalus borealis***

Wenche E. Larssen, [Snorre Bakke](#), Anja M. Landes

09:15 to 09:25 **Snow crab (*Chionoecetes opilio*) clusters, effect of processing**

[Grete Lorentzen](#), Lian, F., [Rotabakk, B.T.](#), [Hustad, A.](#), [Lindberg, Måge, I., D.](#), [Agersborg Røhme, A.](#), [Johannessen, E.](#), [Vanglo Grastveit, K.](#), [Schrødter, E.](#), [Medeiros, T.](#), [Grip, A.E.](#), & [Siikavuopio, S.I.](#)

09:30 to 09:40 **How to optimally take care of a new shellfish resource? – the case of Norwegian Snow crab**

[Gøril Voldnes](#), [Björg Helen Nøstvold](#)

09:45 to 09:55 **Discussion**

### Assessment and population dynamics of shellfish (Session B)

10:00 to 10:05

**CHAIRS:** [Carsten Hvingel](#), Institute of Marine Research, Norway and [Gordon H. Kruse](#), University of Alaska Fairbanks, U.S.A

10:10 to 10:40 **KEYNOTE: Challenges in assessing Bering Sea crab: a changing environment, non-stationary population dynamics, and mass mortalities**

[Cody Szuwalski](#)

Coffee break

11:00 to 11:10 **The great scallop *Pecten maximus* a fishery resource on the move northwards?**

[Ellen Sofie Grefsrud](#), [Tore Strohmeier](#), [Øivind Strand](#)

11:15 to 11:25 **The Icelandic sea urchin resources – Stock assessment and management**

[Gudrun G. Thorarinsdóttir](#)

11:30 to 11:40 **A quantitative multi-species dive survey program for monitoring benthic marine invertebrates in British Columbia, Canada**

[Dominique Bureau](#), [Janet Lohead](#)

11:45 to 11:55 **Can a simple stock assessment model work? – lessons learnt through 20 years in a shrimp fishery advisory process**

[Carsten Hvingel](#), [AnnDorte Burmeister](#), [Frank Rigét](#)

12:00 to 12:10 **Management of a small fjord shrimp population**

[Ingibjörg G. Jónsdóttir](#)

12:15 to 12:25 **Estimation of Key Population Parameters and MSY-based Reference Points for Sidestripe Shrimp (*Pandalopsis dispar*, Rathbun, 1902) in Shrimp Management Area Fraser River, British Columbia, Canada**

[Zane Zhang](#), [Ken Fong](#)

Lunch

13:35 to 13:45 **Effects of no-take zones on the dynamics of Northern shrimp (*Pandalus borealis*) – a case study from fjord systems in North-Norway**

[Fabian Zimmermann](#), [Trude Hauge Thangstad](#), [Kjell Nedreaas](#), [Hans Kristian Strand](#), [Guldborg Søvik](#)

13:50 to 14:00 **Populations indices of Norway lobster (*Nephrops norvegicus*) in Skagerrak and Norwegian Deep derived from trawl survey data**

[Carsten Hvingel](#), [Guldborg Søvik](#), [Ann Merete Hjelset](#)

14:05 to 14:15 **The increasing recreational trap fishery for Norway lobster (*Nephrops norvegicus*) along the southwestern coast of Norway – insights from a baseline study**

[Alf Ring Kleiven](#), [Fabian Zimmermann](#), [Merete Vik Ottesen](#), [Sigurd Heiberg](#), [Mats Ulmestrand](#), [Guldborg Søvik](#)

14:20 to 14:30 **From the Adriatic to Northern Norway – Geographic differences in moult increment of the European Lobster *Homarus gammarus***

[Matthew T. Coleman](#), [Michael C. Bell](#)

14:35 to 14:45 **Past and future population growth and range expansion of the introduced species of red king crab (*Paralithodes camtschaticus*) off Northern Norway**

[Carsten Hvingel](#), [Einar M. Nilssen](#), [Ann Merete Hjelset](#), [Franz Mueter](#), [Jan H. Sundet](#)

14:50 to 15:00 **Abundance and Spatial Distribution of Brown Crab (*Cancer pagurus*) from Fishery-Independent Dredge and Trawl surveys in the North Sea**

[Carlos Mesquita](#), [Paul G. Fernandes](#), [Helen Dobby](#), [Graham J. Pierce](#)

Coffee break

15:20 to 15:30 **Can cod count crabs? – Abundance of the invading snow crab in the Barents Sea estimated through cod stomach analysis**

[Carsten Hvingel](#), [Rebecca E. Holt](#), [Kristin Windsland](#), [Andrey V. Dolgov](#), [Ann Merete Hjelset](#), [Ann-Lisbeth Agnalt](#), [Bjarte Bogstad](#)

15:35 to 15:45 **Seasonal variations in the meat and by-product quality of the snow crab (*Chionoecetes opilio*) in Barents Sea**

[Runar G. Solstad](#), [Alexandre Descomps](#), [Birth Vang](#), [Rasmus Karstad](#), [Sten Ivar Siikavuopio](#), [Ragnhild Whitaker](#)

15:50 to 16:15 **Discussion**

16:20 to 16:45 **Closing**

Posters presented at the Shellfish symposium

Poster ID	Title and authors
1	<b>The effects of climate change on economically important filter feeders</b> Rastrick S.P.S., Jiang Z.J., Wang X.Q., Graham H.E., Collier V., Whiteley N.M., Strohmeier T., Fang J.G., Strand Ø.
2	<b>Aborigens vs. invaders : role of crabs in diet of demersal fishes in the Barents Sea</b> Andrey V. Dolgov, Aleksandr N. BenzikO. Yu Chetyrkina
3	<b>Red is better – northern shrimp and other shrimps in diet of fish in the Barents Sea</b> Andrey V. Dolgov, Aleksandr N. Benzik, O. Yu Chetyrkina
4	<b>Structure and long-term dynamics of zoobenthos communities on the scallop beds near the Kola Peninsula</b> Tatiana B. Nosova, Igor E. Manushin, Denis V. Zakharov
5	<b>High values of cadmium in brown crab <i>Cancer pagurus</i> from Northern Norway: A result of a changing environment?</b> Martin Wiech, Sylvia Frantzen, Arne Duinker, Amund Maage
6	<b>Trophic level estimates of shellfish and other groups in the Barents Sea, do estimates from Ecopath mass-balance models and stable isotopes differ?</b> Torstein Pedersen
7	<b>The snow crab (<i>Chionoecetes opilio</i>) – growth potential and constraints in the Barents Sea based on benthic secondary production</b> Mona Maria Fuhrmann, Børge Holte, Anne Helene Solberg Tandberg, Ann Merete Hjelset
8	<b>Ecology and management of the invasive snow crab: Predicting expansion, impacts and sustainability in the Arctic under climate change (EISA)</b> Paul Renaud, Sabine Cochrane, Marta Coll, Eivind Oug
9	<b>The migratory behavior and area utilization of red king crab (<i>Paralithodes camtschaticus</i>) in newly invaded Norwegian coastal areas</b> Magnus Aune, Jenny Jensen, Sten Siikavuopio, Guttorm Christensen, Kåre Tormod Nilsen
10	<b>Dynamics of trap catches and spatial distribution of the red king crab males and females in the Russian part of the Varanger fjord in 2008-2018</b> Alexey V. Stesko
11	<b>Development of the fishery for snow crab (<i>Chionoecetes opilio</i>) in the Barents Sea in the period 2012-2018</b> Ann Merete Hjelset, Hanna Ellérine Helle Danielsen
12	<b>Using an individual-based model (IBM) driven by a Regional Ocean Modeling System (ROMS) to evaluate potential impacts of climate change on broad-scale patterns of larval dispersal and settlement of Snow Crab</b> Michael P. Torre, William T. Stockhausen
13	<b>Feeding adult Iceland scallops with particulate organic waste from fin fish aquaculture</b> Sissel Andersen, Ellen Sofie Grefsrud, Siri Aaserud Olsen og Sonnich Meier
14	<b>Recent mass strandings of krill (Euphausiacea) along the Norwegian coast</b> Guldborg Søvik, Padmini Dalpadado, Tone Falkenhaus, Jon Rønning, Pål Næverlid Sævik, Maria Jenssen, Marita Larsen, Trude Hauge Thangstad, Ann-Lisbeth Agnalt, Ole B. Samuelsen
15	<b>Snow crab (<i>Chionoecetes opilio</i>) diet against benthic communities in the habitat of crabs in the Barents Sea</b> Denis V. Zakharov, Igor E. Manushin, Natalya A. Strelkova, Valeriy A. Pavlov, Tatiana B. Nosova
16	<b>Size of maturity in snow crab (<i>Chionoecetes opilio</i>) in the Barents Sea</b> Hanna Ellérine Helle Danielsen, Ann Merete Hjelset, Ann-Lisbeth Agnalt
17	<b>Thermal tolerance of invasive red king crab (<i>Paralithodes camtschaticus</i>) larvae from the Barents Sea</b> Helena Kling Michelsen, Maria Sparboe, Einar M. Nilssen, Anne Helena Kettunen, Sten I. Siikavuopio and Jørgen S. Christiansen
18	<b>Energy requirements of immature male red king crab <i>Paralithodes camtschaticus</i> investigated at two different temperatures</b> Sten I. Siikavuopio, Bjørn-Steinar Sæther, Maria Sparboe and Jørgen S. Christiansen
19	<b>Population dynamics and stock assessment of the soldier striped shrimp <i>Plesionika edwardsii</i> (brandt, 1851) in the mid-north Atlantic Ocean (Azores archipelago)</b> Medeiros-Leal, W.M., Santos, R.V.S., Nova-Pabon, A.M., Isidro, E.J.L.F., Melo, O.B.M.L., Pinho, M.R.
20	<b>Biological and ecological aspects of unexploited virgin <i>Plesionika edwardsii</i> (Crustacea: Decapoda: Pandalidae) populations in the Mid-North Atlantic</b> Régis V. S. Santos, Wendell M. M. L. Silva, Ana M. Novoa-Pabon, Mário R. Pinho, Eduardo J. Isidro, Octávio Melo.
21	<b>New estimates of weight-at-size, maturity-at-size, fecundity, and biomass of snow crab, <i>Chionoecetes opilio</i>, in the Arctic Ocean off Alaska</b> Divine, LM, Mueter FJ, Kruse GH, Bluhm BA, Jewett SC, Iken K
22	<b>Investigating the performance of a roller footgear in the Nunavut offshore shrimp fishery using underwater video</b> Tomas Araya-Schmidt, Winger P. D., Santos, M., Moret, K., DeLouche, H., Legge, G., Walsh, P., Donovan, M., Bayse, S. M.
23	<b>Towards sustainable utilization of crab by-products</b> Diana Lindberg, Runar G. Solstad, Jan Arne Arnesen, Ragnhild D. Whitaker
24	<b>Hurdles and possibilities for management of the invasive Pacific oyster in Scandinavia using small-scale fisheries</b> Ane T. Laugen, Asa Strand, Lars-Johan Naustvoll, Per Dolmer, Stein Mortensen
25	<b>Fishery of the orange-footed sea cucumber (<i>Cucumaria frondosa</i>) in Iceland: „Klondike“ or sustainable practice?</b> Jonas P. Jonasson, Gudrun G. Thorarinsdottir