

NPAFC International Workshop on
**Explanations for the High Abundance of
Pink and Chum Salmon and Future Trends**

October 30-31, 2011
Vancouver Island Conference Centre, Nanaimo, BC, Canada

SECOND ANNOUNCEMENT and LAST CALL FOR ABSTRACTS

The *North Pacific Anadromous Fish Commission (NPAFC)* announces an international workshop on “Explanations for the High Abundance of Pink and Chum Salmon and Future Trends” to be held on October 30-31, 2011, at the Vancouver Island Conference Centre, Nanaimo, BC, Canada.

DEADLINE for ABSTRACT SUBMISSION is May 31, 2011.

BACKGROUND

Total commercial catches of Pacific salmon (*Oncorhynchus* spp.) in the Subarctic North Pacific are at historic high levels, with recent catches over one million tonnes. High catches were caused by an increase of pink and chum salmon production, which represented over 80% of the total catch. At the same time Chinook, coho, and masu salmon have been decreasing in abundance. These trends in Pacific salmon catches are generally recognized to result from processes within the ocean that appear to improve the capacity to produce pink and chum salmon, perhaps decrease the capacity to produce Chinook and coho salmon, and contribute to recent extreme variability in sockeye salmon production. Understanding how future trends in ocean production capacity will change is particularly important for hatchery programs. The Workshop aims to bring together international experts to identify what is known about the reasons for recent production trends and to identify future research needs.

OBJECTIVES AND TOPIC SESSIONS

Workshop objectives include the following: (1) identify production trends of pink and chum salmon by region; (2) identify reasons for high production of pink and chum salmon (and low production of other salmon species); (3) predict future production of pink and chum salmon; and (4) identify key areas of future research.

The workshop will include the following topic sessions:

1. Trends of pink and chum salmon production by region
2. Hatchery production
3. Migration and distribution patterns during the marine life history
4. Feeding, growth, and survival strategies
5. Ecological capacity of the ocean to produce wild and hatchery pink and chum salmon
6. Prediction and management of Pacific salmon production in a changing climate
7. Future research

MEETING DATE and VENUE

October 30-31, 2011

Vancouver Island Conference Centre, Shaw Auditorium

101 Gordon Street, Nanaimo, British Columbia, V9R 5J8 Canada

Tel: 250-244-4050; Fax: 250-244-4055

<http://www.viconference.com/>

ORGANIZERS

Organizing Committee

Richard Beamish (Pacific Biological Station, DFO, Canada; Chairperson)

Alexander Bugaev (Kamchatka Fishery and Oceanography Research Institute, Russia)

Sanae Chiba (Japan Agency for Marine-Earth Science and Technology, Japan)

William Crawford (Institute of Ocean Sciences, Canada)

Edward V. Farley, Jr. (Auke Bay Labs., Ted Stevens Marine Research Institute, NMFS, USA)

Toru Nagasawa (National Salmon Resources Center, FRA, Japan)

Ki Baik Seong (Cold-Water Fish Research Center, NFRDI, Korea)

Nancy D. Davis (NPAFC Secretariat)

Host Organization

North Pacific Anadromous Fish Commission ([NPAFC](#)); www.npafc.org

Co-Sponsoring Organizations

Bearing Sea Fishermen's Association ([BSFA](#)); <http://www.bsfaak.org/>

Fisheries and Oceans Canada ([DFO](#)); www.dfo-mpo.gc.ca/index-eng.htm

North Pacific Marine Science Organization ([PICES](#)); www.pices.int

North Pacific Research Board ([NPRB](#)); www.nprb.org

Pacific Fisheries Resource Conservation Council ([PFRCC](#)); www.fish.bc.ca

Pacific Salmon Foundation ([PSF](#)); www.psf.ca

State of the Salmon ([SoS](#)); www.stateofthesalmon.org

PRESENTATIONS

The Workshop will be conducted in English. Sessions will include invited and contributed papers.

Contributed papers will be selected for oral or poster presentation. Oral presentations are 15 minutes followed by 5 minutes of discussion.

WORKSHOP PROCEEDINGS

Workshop proceedings, including extended abstracts of oral and poster presentations and a discussion summary, will be published in a NPAFC Technical Report, which will be available online at the NPAFC website. Publication of selected full papers in the NPAFC Bulletin series

(http://www.npafc.org/new/pub_bulletin.html) or another peer-reviewed journal will be considered.

FINAL ANNOUNCEMENT

The Final Announcement is scheduled for distribution July 1, 2011, and information will be updated on the NPAFC website (www.npafc.org).

REGISTRATION AND HOTEL ACCOMODATIONS

Registration and hotel information will be included in the Final Announcement and available on the NPAFC website (www.npafc.org) after July 1, 2011.



ABSTRACTS

- Abstracts for oral and poster presentations must be received by **May 31, 2011** at the NPAFC Secretariat by e-mail (secretariat@npafc.org).
- Abstracts must be prepared according to guidelines on page 4.
- The Organizing Committee will select abstracts by the end of June, 2011, and authors will be notified of the results by the NPAFC Secretariat.
- Presenters who had their abstracts selected will receive guidelines for presentations and extended abstracts.

For more information contact:

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Suite 502, 889 West Pender Street, Vancouver, B.C., V6C 3B2 Canada
Tel: +1-604-775-5550, Fax: +1-604-775-5577
E-mail: secretariat@npafc.org, Website: <http://www.npafc.org/>

Workshop thumbnail photo credit on the NPAFC website: Japan Fisheries Research Agency

ABSTRACT GUIDELINES

- Abstracts are limited to 400 words and submitted in Microsoft Word according to the format shown below.
- Tables and figures are not included in the abstract.
- Indicate the intended topic session (one through seven).
- Specify the presenter with an asterisk (*).
- State the preference for an (1) oral, (2) poster, or (3) oral presentation but poster is acceptable when submitting the abstract. However, the Organizing Committee reserves the right to change the presentation from an oral to a poster depending on the availability of time in a particular session.
- Accepted abstracts will be included in the program and abstract booklet for circulation at the Workshop.
- Accepted abstracts will not be edited or peer-reviewed before printing. Authors are responsible for the clarity and accuracy of the information presented in the abstract.

Example of the Format for Submitting Abstracts

Topic Session: Topic 5. Ecological capacity of the ocean to produce wild and hatchery pink and chum salmon

Preferred Presentation Format: (3) Oral preferred, but poster is acceptable

Title: Body size of maturing chum salmon in relation to sea surface temperatures in the eastern Bering Sea

Authors: John H. Helle*¹ and Masa-aki Fukuwaka²

¹Ted Stevens Marine Research Institute, Alaska Fisheries Science Center, NOAA Fisheries, 17109 Point Lena Loop Road, Juneau, AK 99801, USA. (E-mail: jack.helle@noaa.gov; Tel: 907-789-6038; Fax: 907-789-6094)

²Hokkaido National Fisheries Research Institute, Fisheries Research Agency, 116 Katsurakoi, Kushiro, Hokkaido 085-0802, Japan

Abstract: During their last season at sea, some chum salmon from North America and Japan are known to forage in the southeast Bering Sea. Body size of mature chum salmon from North America and Japan was compared with sea surface temperatures in the winter, spring, and summer in the southeast Bering Sea during three time periods: pre-regime shift 1960-76, regime shift 1977-94, and post-regime shift 1995-2006. During the 1977-94 time period, mean correlation coefficients between body size and sea surface temperatures were positive and largest during the winter and spring. During the 1960-76 and 1995-2006 time periods, correlation coefficients were usually smaller and often negative. We conclude that chum salmon from many locations around the Pacific Rim were present in the eastern Bering Sea during the winter and spring of 1977-1994. We suggest that differences in oceanographic parameters and population density of salmon during the three time periods may influence migration pathways of salmon in the North Pacific Ocean and Bering Sea. Research on migration patterns of salmon in relation to these factors is necessary to elucidate these issues.



INTERNATIONAL WORKSHOP ON

EXPLANATIONS FOR THE HIGH ABUNDANCE OF PINK AND CHUM SALMON AND FUTURE TRENDS

October 30-31, 2011
 Vancouver Island Conference Centre
 Nanaimo, British Columbia, Canada

ABSTRACTS DUE May 31, 2011
 Email abstracts to secretariat@npafc.org

More information: www.npafc.org



TOPICS

1. Production trends by region
2. Hatchery production
3. Marine migration and distribution patterns
4. Feeding, growth, and survival strategies
5. Ecological capacity for wild and hatchery production in the ocean
6. Prediction and management of salmon production in a changing climate
7. Future research

FEATURING PROMINENT EXPERTS

- | | | |
|---|---|---|
| Richard Beamish (Nanaimo, Canada) | William Heard (Juneau, USA) | Masahide Kaeriyama (Hakodate, Japan) |
| Alexander Kaev (Yuzhno-Sakhalinsk, Russia) | Yury Khokhlov (Anadyr, Russia) | Suam Kim (Busan, Korea) |
| Kentaro Morita (Sapporo, Japan) | Joe Orsi (Juneau, USA) | Vladimir Radchenko (Moscow, Russia) |
| Greg Ruggerone (Seattle, USA) | Evgenii Shevlyakov (Petropavlovsk, Russia) | Shigehiko Urawa (Sapporo, Japan) |
| Alex Wertheimer (Juneau, USA) | | |

Workshop Wrap-Up James Balsiger (Juneau, USA)

ORGANIZING COMMITTEE

Richard Beamish (Pacific Biological Station, DFO, Canada) **Alexander Bugaev** (Kamchatka Fishery and Oceanography Research Institute, Russia) **Sanae Chiba** (Japan Agency for Marine-Earth Science and Technology, Japan) **William Crawford** (Institute of Ocean Sciences, Canada) **Nancy Davis** (NPAFC Secretariat)
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