Theme 1 Regime shifts, especially, examination of the ocean and ecosystem responses to known strong, infrequent changes in the North Pacific, such as those that occurred in 1977, 1989, and 1998

Wednesday, April 19, 2006 8:30-20:00

08:30-08:50 **Introduction by Convenors**

08:50-09:25 **James Overland, Shoshiro Minobe and Sergei Rodionov** (Invited)
North Pacific regimes shifts: Semantics and indicators (T1-2676)

09:25-09:50 **Franklin B. Schwing, P. Ted Strub, Steven J. Bograd, Roy Mendelssohn, Andrew Thomas and Christopher S. Moore**
Interannual variability in the bifurcation of the North Pacific Current: Co-variability of California Current and Gulf of Alaska ecosystems (T1-2695)

09:50-10:15 **Konstantin Rogachev and Natalya Shlyk**
The role of Alaskan stream eddies in the dynamics of the Kamchatka Current and Western Pacific Subpolar Gyre (T1-2629)

10:15-10:45 **Coffee Break**

10:45-11:10 **Taketo Hashioka, Yasuhiro Yamanaka, Fumitake Shido and Takashi T. Sakamoto**
Ecosystem change in the western North Pacific associated with global warming obtained by 3-D ecosystem model (T1-2678)

11:10-11:35 **Michael Alexander, Antonietta Capotondi, Art Miller, Doug Neilson, Fei Chai and Richard Brodeur**
Decadal variability in the North Pacific Ocean in a coupled physical-ecosystem model (T1-2637)

11:35-12:00 **Richard Beamish, R. Sweeting, C. Neville and K. Lange**
Shifts in trends in the dominance of Pacific salmon in the Strait of Georgia are related to life history strategies, regimes and climate warming (T1-2630)

12:00-13:15 **Lunch**

13:15-13:40 **William Peterson, Cheryl Morgan, Hongsheng Bi, Edmundo Casillas, Joe Fisher, Jen Zamon and Robert Emmett**
Relationships between interannual and decadal changes in the Pacific Decadal Oscillation (PDO), ocean conditions, and survival of coho and chinook survival in the coastal ocean off the Pacific Northwest (T1-2688)

13:40-14:05 **Svetlana V. Davidova**
The ichthyoplankton samples as indirect characteristic of the thermal regime of the ocean (T1-2651)

14:05-14:30 **Jennifer L. Boldt and Kerim Aydin**
Current status and historical trend indicators of climate effects on the Bering Sea and Gulf of Alaska Ecosystems (T1-2659)

14:30-14:55 **Yongjun Tian, Hideaki Kidokoro, Tatsuro Watanabe and Naoki Iguchi**
The late-1980s regime shift in the ecosystem of Tsushima Warm Current in the Japan/East Sea: Evidence of historical data and possible mechanisms (T1-2663)

14:55-16:30 **Break / Poster Session**

16:30-16:55 **Sanae Chiba, Kazuaki Tadokoro, Toshiro Saino and Hiroya Sugisaki**
Regime shifts and lower trophic level phenology in the western North Pacific (T1-2642)

16:55-17:20 **Richard D. Brodeur, Mary Beth Decker, Lorenzo Ciannelli, Jennifer E. Purcell, Nicholas A. Bond, Phyllis J. Stabeno, George L. Hunt, Jr. and Erika Acuna**
The rise and fall of large medusae in the Bering Sea in relation to regime shifts (T1-2682)

17:20-17:45 **Daniel Lluch-Belda**
An integration of the sardine-anchovy regime variation in the Pacific Ocean (T1-2666)

17:45-18:00 **Adjourn**

Posters

Maki Nuguchi Aita, Kazuaki Tadokoro, Yasuhiro Yamanaka and Michio J. Kishi
Interdecadal variation of the lower trophic ecosystem using a 3-D physical-biological coupled model '3D-NEMURO' (T1-2670)

V.F. Bugaev, B.B. Vronsky, L.O. Zavarina, Z.Kh. Zorbidi and I.V. Tiller
Analysis of coastal catches of Kamchatka River salmons for 1936-2004 (T1-2714)

V.F. Bugaev
Correlation between Kamchatka River sockeye salmon *Oncorhynchus nerka* freshwater and ocean growth rates and stock abundance (on the data for 1989-2004) (T1-2713)

Takahiro Iida, Sei-Ichi Saitoh, Meibing Jin and Jia Wang
Climate variability and phytoplankton dynamics in the Okhotsk Sea and Bering Sea investigated with satellite remote sensing and 1-D ecosystem modeling (T1-2709)

Shin-ichi Ito, Kenneth A. Rose, Maki Noguchi Aita, Bernard A. Megrey, Yasuhiro Yamanaka, Francisco E. Werner and Michio J. Kishi
Interannual response of fish growth of Pacific saury to the 3-D global NEMURO output with realistic atmospheric forcing (T1-2708)

Michio J. Kishi, Ippo Nakajima, Yasuko Kamezawa, Daiki Mukai, Maki Aita-Noguchi and Yasuhiro Yamanaka
Interannual variation of squid, salmon and saury growth using NEMURO.FISH (T1-2667)

Shoshiro Minobe and Asakawa Shogo
A closer look of the 1998/99 change in Kuroshio/Oyashio extension region (T1-2697)

Takuya Nakanowatari, Kay I. Ohshima and Masaaki Wakatsuchi
Spreading of warming signal of the Okhotsk Sea Intermediate Water to the North Pacific since the 50s (T1-2673)

Vadim V. Navrotsky
Climate and ecosystems: Mechanisms of their changes and interrelations (T1-2644)

Konstantin Rogachev
Nodal modulation of air temperature in the Sea of Okhotsk (T1-2624)

Hyunju Seo, Suam Kim, Sukyung Kang and Kibeik Seong
Variability in growth and survival of Korean chum salmon in relation to climate changes during the 1980s-1990s (T1-2671)

Tatyana A. Shatilina and Galina I. Anzhina
Climate shifts in center parameters of the Asian and Far Eastern depressions during the second half of 20th century (T1-2650)

Jie Shi and Hao Wei
Variations of the Yellow Sea environment and the response to the climate events (T1-2720)

Yao Sun
Research progress on dynamic processes of higher trophic food chain/webs in national GLOBECs of China (T1-2719)

Dinh Van Uu and Pham Hoang Lam
Seasonal to decadal variability of the sea surface temperature, water circulation and ecosystem in the west part of the Bien Dong (South China Sea) and the activity of the Indian-Pacific warm pool (T1-2705)

Tatsuro Watanabe, Hideaki Kidokoro and Yongjun Tian
Influence of the late-1980s regime shift to the Japanese continental slope area in the Japan Sea (T1-2675)