



2016 Wooster Award



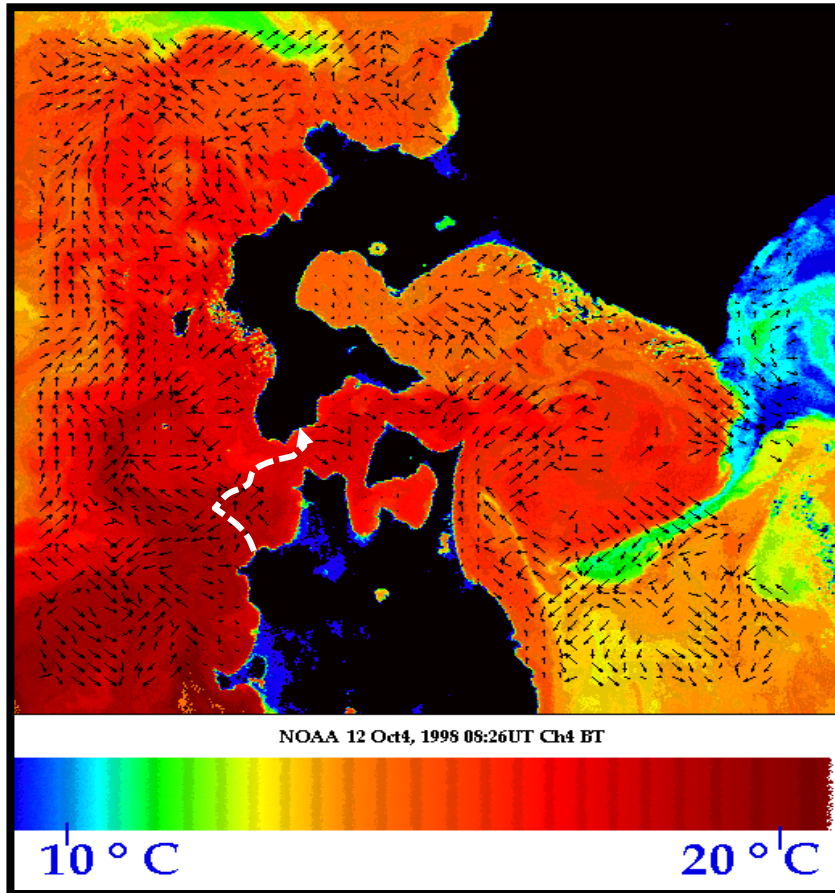
2016 Wooster Award Recipient is:
Prof. Sei-Ichi Saitoh
Hokkaido University, Japan



Sei-Ichi was born in Fukui



Ancient people crossed the Tsugaru Strait



Success in crossing the Tsugaru
Strait by drifter in 1971–4th
attempt.



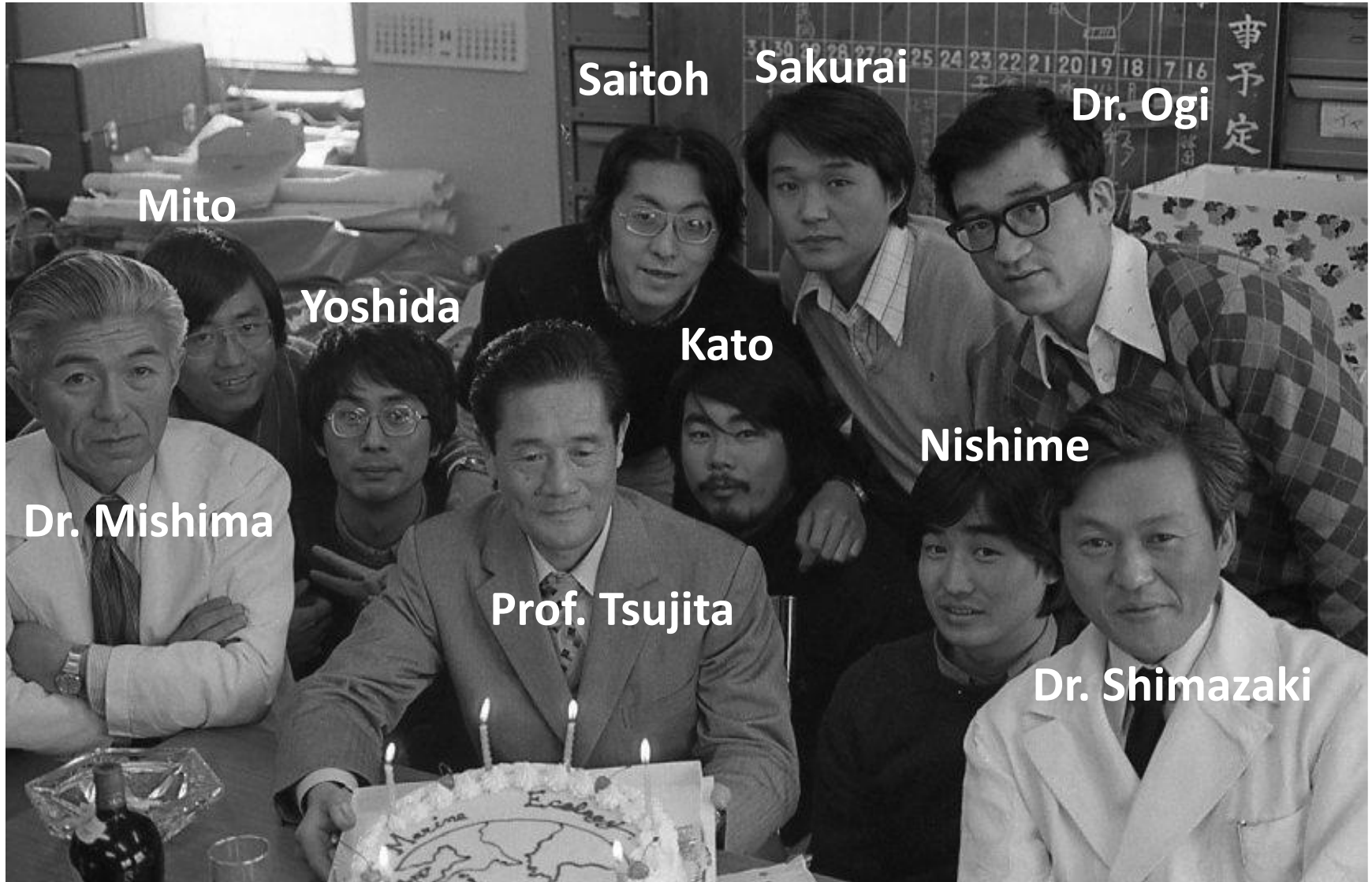
Fool on the drifter "KINAMBO"



Expedition to the Aleutian Islands in 1975



60th Birthday of Prof. Tsujita in 1977



Saitoh

Sakurai

Dr. Ogi

Mito

Yoshida

Kato

Nishime

Dr. Mishima

Prof. Tsujita

Dr. Shimazaki

Research Engineer in Japan Weather Association



At office



Sand Point Lab, Seattle



Mt. Tsukuba

Sei-Ichi and his wife, Ryoko



PICES-2008

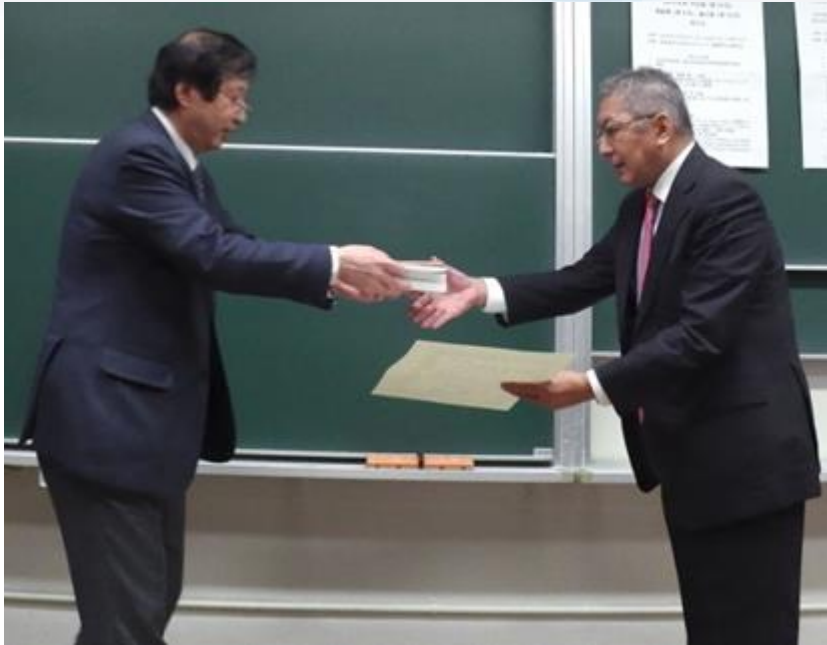


1988

PICES-2004

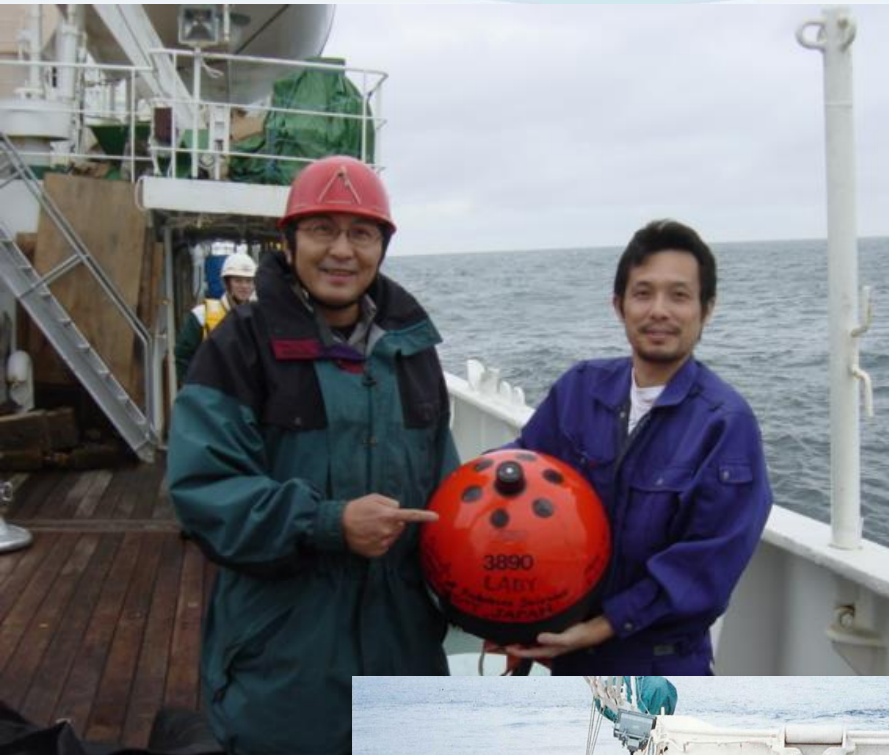


Sei-Ichi received Uda Award in 2014



Uda Award holders(2012-2014)
PICES 2014 Chairman's Reception
Yeosu October 24, 2014

Sei-Ichi is a sea-going scientist



May 7-14, 1997
R/V Tansei-Maru
KT-97-05



Mini-symposium in each port of call



Marine Ecological Studies in the Bering Sea and eastern North Pacific

A Mini-Symposium to mark the 2000 cruise of OSHORO MARU

July 19, 2000

Institute of Ocean Sciences, Sidney, B.C., Canada

sponsored by:

Institute of Ocean Science, Fisheries and Oceans Canada
Hokkaido University, Graduate School of Fisheries
North Pacific Marine Science Organization (PICES)



Marine Ecological Studies in the Bering Sea and Eastern North Pacific Ocean

A Mini-Symposium to mark the 2001 cruise of the T/S Oshoro maru



July 11, 2001

University of Washington
School of Aquatic and Fishery Sciences building

Marine Ecological Studies in the Bering Sea and eastern North Pacific

(A Mini-Symposium to mark the 2002 cruise of the T/S Oshoro Maru)

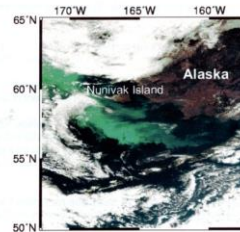
sponsored by:

University of Alaska, School of Fisheries and Ocean Sciences
Hokkaido University, Graduate School of Fisheries Sciences

July 28, 2002
University of Alaska,
Seward Marine Center

Organizing Committee:

- 1) Chairs
Dr. Terry E. Whitedge (UAF)
Dr. Sei-ichi Saitoh (HU)
- 2) Members
Dr. John Bower (HU)



Marine Ecological Studies in the Bering Sea and the North Pacific

Commemorative symposium for UH-HU academic exchange agreement and to mark the 2003 cruise of the T/S Oshoro Maru

sponsored by:

School of Ocean and Earth Science and Technology, University of Hawaii
Pacific Islands Fisheries Science Center, NMFS, NOAA
International Arctic Research Center, University of Alaska Fairbanks
Graduate School of Fisheries Sciences, Hokkaido University

August 8, 2003
University of Hawaii,
Marine Science Building rm. 114

Organizing Committee:

- 1) Chairs
Dr. Sei-ichi Saitoh (HU)
Mr. Michael Seki (NMFS/NOAA)
- 2) Members
Dr. John Bower (HU)



2000 Victoria



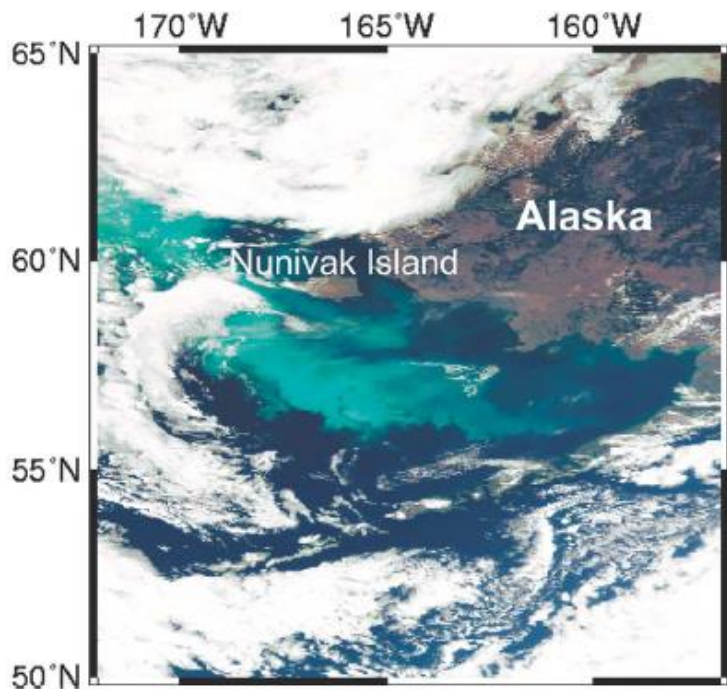
2001 Seattle

2002 Seward



2003 Honolulu

Study of Coccolithophores & Coccolith



SeaWiFS image, Sept. 17, 2000

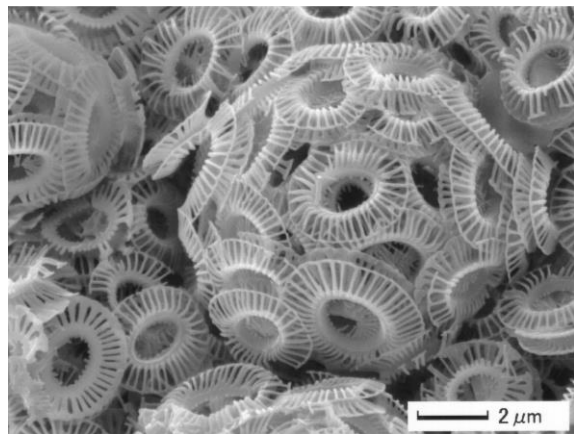
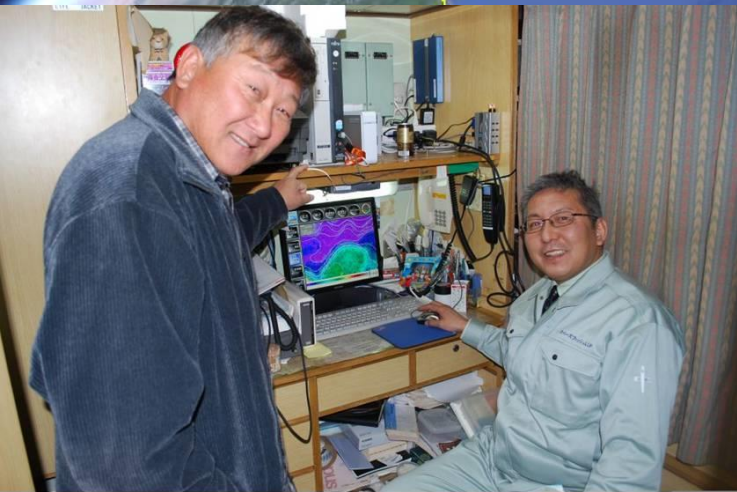


Photo by Dr.
Naonobu Shiga



Green & Life Innovation, Inc.



フィリピン海

US Dept of State Geographer

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Image Landsat

Data SIO, NOAA, U.S. Navy, NGA, GEBCO

北マリアナ諸島 サイパン

MONITOR



PICES 2006 Yokohama

ESSAS



ESSAS Symposium 2006
St. Petersburg



PICES 2008 Dalian



PICES 2014 Yeosu
ESSAS Symposium

PICES Summer School



 **2009 PICES International Summer School**
Satellite Oceanography for the Earth Environment 

Date : August 25-28, 2009 Venue : Room 209B, Building 25-1, Seoul National University, Seoul, Korea

Organized by Research Institute of Oceanography, Seoul National University / Korea Ocean Research & Development Institute / Pukyong National University



Sei-Ichi, graduate students and Post-docs in Yeosu 2014



prediction model for neon flying squid in the East China Sea using satellite remote sensing and vessel monitoring system

Yoshiaki Horiuchi, Hiroshi Hasegawa, and Tomo Misawa
Hokkaido University, Japan. E-mail: yhorichi@hokudai.ac.jp
Department of Environmental Science, Hokkaido University, Japan

Data and Method

The 2011 data consist of latitude and longitude positions tagged by the squid and a sea area map. The distance between adjacent positions was calculated by the Haversine formula. The vector speed was calculated using the distance between adjacent points and the time series. Subsequently, we used the vector speed and the sea area map to estimate the squid's movement from geographical coordinates. The 2011 data were fitted with the "logit" sigmoid curve regression function, with CPUE as the response variable and SST, SeaWiFS chlorophyll *a*, and SLP as predictor variables. The suitable prediction models were developed as follows: $CPUE = 1 / (1 + \exp(-C_1))$ in the vicinity of the fishing vessel from actual boat position (position i), $CPUE = 1 / (1 + \exp(-C_2))$ in the vicinity of the fishing vessel from satellite position (position j), $CPUE = 1 / (1 + \exp(-C_3))$ in the vicinity of the fishing vessel from satellite position (position k), and the distance from satellite position (position l) to the fishing vessel.

Figure 2. Schematic view of suitable prediction model for neon flying squid

Conclusion

Adding the economic factor in neon flying squid aquaculture production is a great interest, but the degree to which the predicted fishing ground matches the actual operation area is 60%. The low prediction accuracy was due to the low representation in CPUE in the operation of fishing vessels based on such CPUE representation as the accurate satellite images. Our future efforts will be directed to improve the accuracy of the prediction.

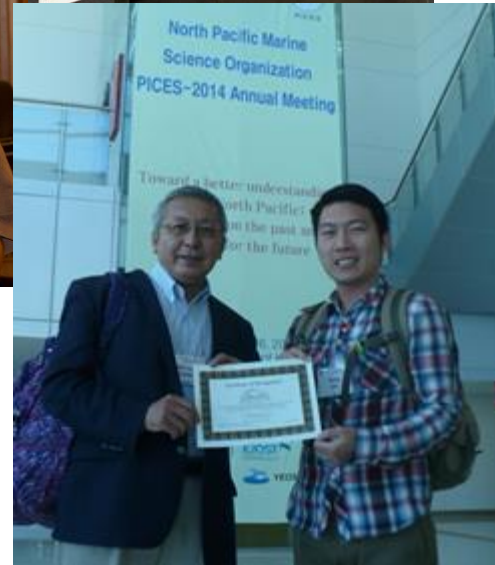
Figure 3. Suitable operation maps during 4/20 - 2/28, July 2012.

Figure 4. Suitable operation maps during 4/20 - 2/28, July 2013.

supported by the Research on Climate Change Adaptation (RCCA) Project of the Grant-in-Aid for Education, Culture, Sports, Science and Technology (MEXT).



Best presentation awards at PICES







PICES 2016 Annual Meeting San Diego

