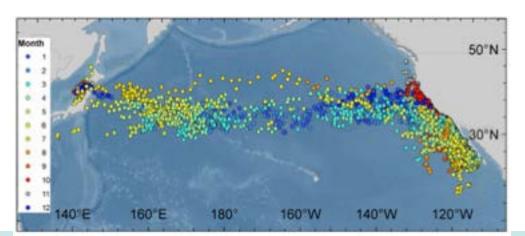


# NMFS Report **SWFSC HMS Activities**

**NOAA FISHERIES** 

**Gerard DiNardo** 

Southwest Fisheries Science Center

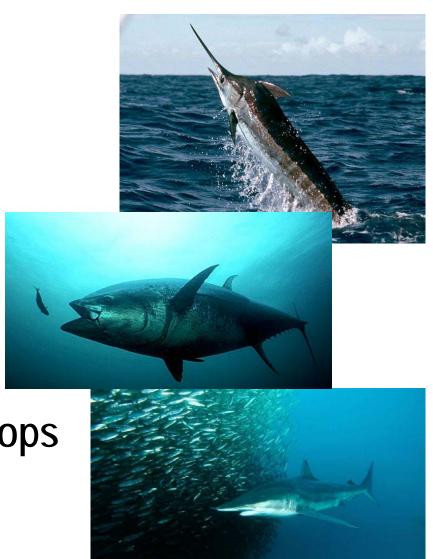






## **Presentation Outline**

- Japan-U.S. MOU
- ISC Pacific Bluefin Tuna International Stakeholders Meeting
- Stock Assessments
- Pac. Bluefin Tuna Petition
- Future Meetings & Workshops





# Japan-U.S. MOU – April 2017

# MEMORANDUM OF UNDERSTANDING ON COOPERATION ON RESEARCH BETWEEN THE NATIONAL MARINE FISHERIES SERVICE OF THE UNITED STATES OF AMERICA AND THE JAPAN FISHERIES RESEARCH AND EDUCATION AGENCY

Seeks to encourage and support scientific cooperation in five topic areas:

- 1. Joint sponsorship of workshops or symposia on the scientific assessment of living marine resources of the northern hemisphere and aquaculture
- 2. Exchange of expertise and information
- 3. Extended visits of scientists
- 4. Cooperative research on common scientific issues and methodological problems
- 5. Coordination and planning

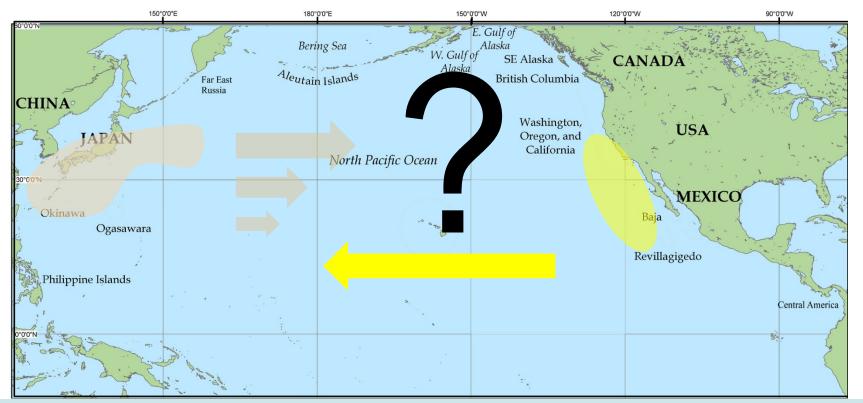




#### SWFSC-NRIFSF Joint Research Chemical Tracers (Otoliths and Tissue)

#### **Data Gaps**

- 1. What is the natal origin of fish in the EPO?
- 2. How and why does rate of movement to EPO change across years?
- 3. How are movements west linked to spawning grounds?
- 4. What is the relative contribution of eastern fish to spawning stock biomass?

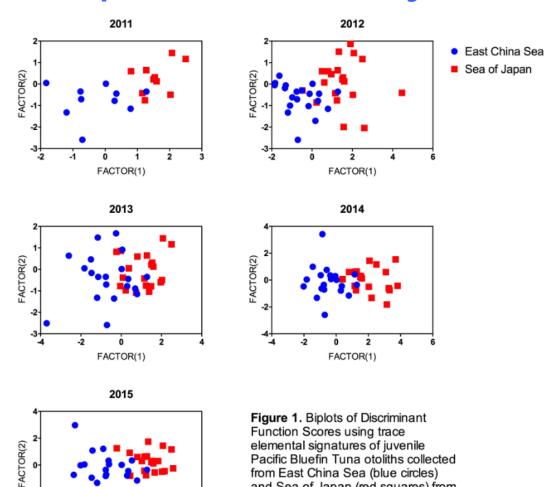




# **Chemical Tracers: Preliminary Results of** Otolith Stable Isotope Microchemistry

FACTOR(1)

- Model results indicate correct classification success ranged from 80-90% each year, thus providing a proof of concept of the approach.
- -In addition to trace elements, stable isotope analysis ( $\delta^{18}$ O and  $\delta^{13}$ C) is underway on the same otoliths.
- -Next step is to examine core of age-classed matched tuna from the EPO - TAGGING STUDY



from East China Sea (blue circles) and Sea of Japan (red squares) from

2011 - 2015



# ISC Stakeholders Meeting – Background

#### **WCPFC** and IATTC:

- Requested ISC to evaluate the expected performance of various harvest scenarios relative to 6 candidate rebuilding targets and performance metrics, under a range of assumptions regarding future recruitment (low, average and combined), and to present the results at the ISC Pacific Bluefin Tuna Stakeholders Meeting in April 2017
- Scenarios intended to provide information for developing future effective conservation and management measures.
- 19 harvest scenarios were tested
   Briefing Book: Agenda Item H.5 Attachment 1



# **ISC Stakeholders Meeting - Participants**

#### **Chairs:**

 Gerard DiNardo (ISC Chair), Masanori Miyahara (WCPFC-NC Chair), Hideki Nakano (ISC PBFWG Chair)

#### **Participants:**

- Approximately 150 stakeholders
  - Country Managers 15 (USA, Japan, Mexico, Korea, Taiwan)
  - RMFO 2 (WCPFC & IATTC)
  - Scientists 15
  - Fishers (com. & rec.) 99 (Korea, Taiwan & Japan)
  - NGOs 9
  - Media 10



# ISC Stakeholders Meeting - Summary

No clear consensus on future rebuilding targets but significant expression of perceptions and personal beliefs:

- Commitment for the earliest feasible recovery and recognition that restructuring fisheries would be beneficial
- Catch limits should be raised when stocks have rebuilt (to what?)
- 2016 ISC assessment does not reflect actual fishing conditions
- Assess utility of seasonal/area closures
- Japan fishers are following proposed voluntary measures – economic hardships
- Uncertainty is high and precautionary approaches should be adopted
- Potential support for 20%SSB<sub>0</sub> as the next rebuilding target



#### PACIFIC BLUEFIN TUNA INTERNATIONAL STAKEHOLDERS MEETING

April 25-27, 2017
Mita Conference Hall (Mita Kaigisho)

#### Agenda

- 1. Opening and Introductions
- 2. Review of the 2016 Pacific Bluefin Tuna Stock Assessment
- 3. The ABCs of Fisheries Management
- 4. Results of the ISC Harvest Scenario Testing
- 5. Discussion on Future Rebuilding Targets
- 6. Next Steps M. Miyahara



# ISC Stakeholders Meeting – Next Steps

- Complete and post a summary report of the international stakeholders meeting
- Continue discussions between managers, scientists and other stakeholders leading up to the 2<sup>nd</sup> Joint IATTC-WCPFC-Northern Committee Workshop in August 2017
- WCPFC to decide on the next rebuilding target by December 2017 (hopefully)



# **Current Conditions in CA Bight: April-May**





#### HMS Stock Assessments-Thresher Shark

# Benchmark Assessment 2016 (Teo, Rodriguez, Sosa-Nishizaki)

• Independent Review June 26-28 – SWFSC

#### **Status**

- Stock unlikely in an overfished condition or experiencing overfishing
- Stock is currently close to unexploited levels





#### HMS Stock Assessments – North Pacific Albacore Tuna

#### Benchmark Assessment (ISC ALBWG July 2017)

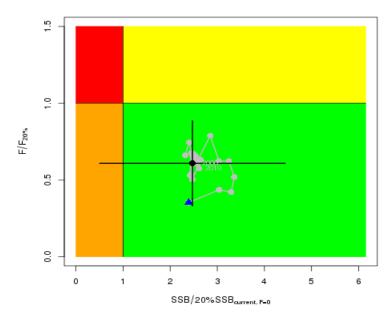
- New procedure to standardize the Japanese longline abundance index (1996 – 2015)
- Start year of the base case model changed to 1993 (from 1966) to eliminated the influence of poorly fit data

Natural mortality (M) changed to be more consistent with data-better

fit to size composition data

#### **Status**

- Stock is likely not overfished
- Overfishing is likely not occurring.

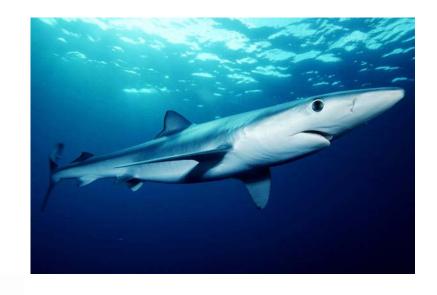




### HMS Stock Assessments-Blue Shark

# Benchmark Assessment (ISC SHARKWG July 2017)





However .....

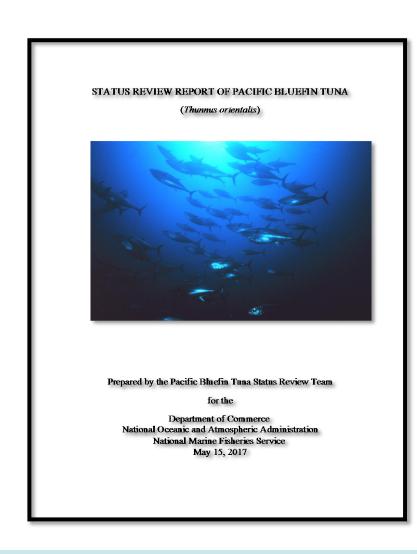




#### Pacific Bluefin Tuna Petition

#### **Process & Status**

- June 20, 2016 NMFS received a petition from the Center for Biological Diversity and 13 copetitioners requesting that Pacific Bluefin tuna be listed as endangered or threatened under the Endangered Species Act (ESA).
- October 11, 2016, NMFS publishes positive finding concluding that the petitioned actions may be warranted and announcing that a formal status review would be conducted as required by the ESA.
- Nov.-Dec. 2016 Status Review Team (SRT) formed and tasked to conduct the review
- May 2017 SRT finalizes report and forwards to WCRO.
- June 2017 WCRO finalizing FR Notice





#### Other Research and Activities

- Prototype e-logbook Albacore Fishery the Saga Continues
- SWFSC Cooperative Research NP albacore, Opah, Pacifc bluefin tuna
- Tuna Summits
- Advancing Assessment Models Space



# Future Meetings & Workshops (2017)

#### RFO-RFMO

- ISC Plenary Meeting (ISC17): July 12-17; Vancouver, Canada
- IATTC Commission Meeting: July 24-28, Mexico City, Mexico
- WCPFC Scientific Committee (SC13): Aug. 9-17; Cooks Island
- WCPFC Northern Committee (NC13): Aug. 28-Sept. 1; Busan, Korea
- ISC 3<sup>rd</sup> MSE Workshop: October; Vancouver, Canada (PENDING)
- WCPFC Commission Meeting (WCPFC14): Dec. 3-8, Philippines

#### **SCIENCE-INDUSTRY**

- Tropical Tuna Summit: Fall 2017; San Diego, CA
- Temperate Tuna Summit: Fall 2017; San Diego, CA





