

Program

Tuesday, September 20, 2011

0930 – 1030 Registration

Agenda Item 1. Introductory Items

<Convener, T. Tanabe>

1030 – 1050 Opening of the meeting

Welcome participants

<Y. Uozumi, Director-General, National Research Institute of Far Seas Fisheries>

Introduction of the participants

Appointment of chairpersons

Adoption of the agenda

Appointment of rapporteurs

Logistical information

Agenda Item 2. Environmental and biological characteristics influencing the distribution, growth, survival, and recruitment of the early life stages of pelagic top predators

<Chairperson, A. Garcia>

<Key note presentations>

1050 – 1130 Interannual larval growth and condition variability of bluefin (*Thunnus thynnus*) consequent with climate-induced environmental changes off the Balearic Sea (A. García, D. Cortés, J. Quintanilla, F. Alemany, L. Quintanilla, J.M. Rodríguez, T. Rámirez).

1130 – 1210 Early life history of Atlantic reef and pelagic fishes: using otolith microstructure to reveal ecological and oceanographic processes (S. Sponaugle).

1210 – 1340 Lunch break

<General presentations>

1340 – 1410 Regional and taxonomic comparisons of the feeding ecologies of larval tunas, mackerels, and billfishes (J. Llopiz).

1410 – 1440 Study on transport, distribution and growth of larval patch of Pacific bluefin tuna (*Thunnus orientalis*) in the northwestern Pacific Ocean (K. Satoh, M. Masujima, Y. Tanaka, M. Okazaki).

1440 – 1510 Annual changes in larval catches of Pacific bluefin tuna (*Thunnus orientalis*) from 2007 to 2010 around the Ryukyu Archipelago (N. Suzuki, T. Tanabe, W. Doi, H. Ashida, T. Kameda, Y. Aonuma).

1510 – 1540 Coffee break

<Chairperson, J. Llopiz>

1540 – 1610 Environmental factors affecting tuna larvae distribution in the Balearic Sea (F. Alemany, P. Reglero, A. García).

1610 – 1640 Climate change impacts on spawning grounds of Atlantic tunas in the northern Gulf of Mexico (B. Muhling, J. Lamkin, Y. Liu, S-K. Lee).

1640 – 1710 Incorporating habitat preference information in the development of annual

abundance indices of bluefin tuna in the U.S. Gulf of Mexico (G.W. Ingram Jr, B.A. Muhling, J.T. Lamkin).

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<Adjourned due to typhoon warning>

Thursday, September 22, 2011

Agenda Item 3. Recent progress in CLIOTOP activities: from perspectives of advancing comparative life history studies on bluefin tuna and related species and effects of environmental changes on oceanic top predators

<Chairperson, J. Llopiz>

0900 – 0925 Overview of CLIOTOP activities (J. Young).

Agenda Item 4. Trophic pathways and relative importance of prey resources

<Chairperson, M. Kiyota>

<Key note presentation>

0925 – 1000 Trophodynamics of ocean top predators: a comparative study from the Indian, Atlantic and Pacific Oceans (J. Young, R. Olson, F. Menard, L. Duffy, P. Kuhnenert).

<General presentations>

1000 – 1025 What can stable isotope studies tell us about early life trophic pathways of top predator larvae? Case study of bullet tuna larvae (A. García, R. Laiz-Carrión, J.M. Quintanilla, A. Pérez-Torres, P. Reglero, F. Alemany).

1025 – 1040 Coffee Break

1040 – 1105 Diet of young Atlantic bluefin tuna (*Thunnus thynnus*) in eastern and western Atlantic forage grounds (J.M. Logan, E. Rodríguez-Marín, N. Goñi, S. Barreiro, H. Arrizabalaga, W. Golet, M. Lutcavage).

<Mini-Session: Current progress on research on non-tuna top predators and mesopelagic midtroph>

1105 – 1115 Introduction for current progress on researches for non-tuna top predators and mesopelagic midtroph (M. Kiyota).

1115 – 1140 Habitat utilization in summer by small cetaceans in the North Pacific (Y. Kanaji, M. Okazaki, T. Miyashita).

1140 – 1205 Shift in trophic role of northern fur seals in the northwestern Pacific Ocean (S. Yonezaki, M. Kiyota).

1205 – 1305 Lunch break

1305 – 1330 Trophic interactions of the jumbo flying squid, *Dosidicus gigas*, in the southeastern Pacific Ocean (Y. Kato, T. Wakabayashi, M. Sakai) .

1330–1355 Development of an acoustic-optical system for myctophid fishes (K. Sawada).

Agenda Item 5. Recent progress in research activities targeting oceanic top predators

<Chairperson, J. Young>

<General presentations>

1355 – 1420 Numerical studies focusing on the early life stage of Pacific bluefin tuna (*Thunnus orientalis*) (M. Masujima, Y. Kato, K. Segawa).

1420 – 1445 Potential application of an underwater towing camera system enabling direct observation of fish behavior towards a trolling lure in monitoring of recruitment status in southern bluefin tuna (O. Sakai, T. Itoh).

1445 – 1500 Coffee break

1500 – 1525 Ontogenetic changes in schooling behavior and visual sensitivity during larval and juvenile stages in Pacific bluefin tuna, *Thunnus orientalis* (H. Fukuda, S. Torisawa, T. Takagi).

Agenda Item 6. On-going and future research plans for larval tuna ecology

<Chairperson, J. Young>

<General presentations>

1525 – 1550 Bluefin tuna larval ecology studies off the Balearic Sea: historical review, ongoing projects and future plans (F. Alemany, A. García).

1550 – 1615 A collaborative approach to larval bluefin tuna ecology (J. Lamkin, F. Alemany, W. Ingram, A. Garcia, B. Muhling, E. Malca).

1615–1640 NRIFSF research plan for Pacific bluefin tuna biology and ecology (O. Abe, W. Doi, I. Yamasaki).

Agenda Item 7. Future meeting and publications

<Chairperson, T. Tanabe>

1640 – 1650 Future meeting schedule and publication of workshop proceedings

<Reporting>

1650 – 1800 Reporting (chairpersons, conveners and rapporteurs meet to report on the workshop)

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0900 – 1000 Reporting (continued)

1000 – 1030 Coffee break

Agenda Item 8. Adoption of the workshop report

<Chairperson, A. Garcia>

1030 – 1230 Adoption of the workshop report

Agenda Item 9. Closing of the workshop

1230 – 1240 Closing remarks