



Chilean Jack Mackerel
Workshop

Annotated Chilean Jack Mackerel Workshop Agenda

Monday 30

Session 1. Opening session

09.00 – 11.00

- Opening ceremony and opening statements
- Confirmation of chairperson and election of rapporteurs
- Review and approval of the annotated agenda
- Overview of the objectives of the workshop and aspects to be addressed at each session

11.00 – 11.30 Coffee break

Session 2. Jack mackerel stock structure

Introductory conference

11.30h – 12.00h Horse Mackerel Stock Identification Research (EU-project HOM SIR), by Pablo Abaunza- Project coordinator, Spain.

Presentation of papers

| <u>Hour</u> | <u>number paper</u> | <u>Title</u> |
|---------------|---------------------|---|
| 12.00h | #2. | Distribution of early developmental stages of jack mackerel in the Southeastern Pacific ocean. Sergio Núñez, Sebastián Vásquez, Patricia Ruiz & Aquiles Sepúlveda. Instituto de Investigación pesquera (INPESCA) – Chile. |
| 12.20h | #3. | Genetic variation on mtDNA Cytb sequence of three populations of Chilean jack mackerel, <i>Trachurus murphyi</i> from the Southern Pacific. Min ZHANG•Yong-jiu XU •Cheng-hui WANG. |
| 12.40h | #4. | Changes in the latitudinal and longitudinal distribution of the aggregations of Jack Mackerel (<i>Trachurus murphyi</i>) in the Peruvian sea during 1996-2007. Ericka Espinoza, Miguel Ñiquen y Roberto Flores. Instituto del Mar del Perú (IMARPE) – Perú. |
| 13.00h | #5. | Distribution and Concentration of jack mackerel (<i>trachurus murphyi</i>) related to oceanographical features between north Peru to north Chile. Ñiquen, M.A (mniquen@imarpe.gob.pe) y C.L. Peña. Instituto del Mar del Perú (IMARPE) – Perú. |
| 13.20h | #6. | Inter-annual and seasonal variability of oceanological conditions in the Southern Pacific Ocean in connection with the pelagic ecosystem structure. P.Chernyshkov*, E.Timokhin*, A. Glubokov**. |
| 13.40h | #7. | Jack mackerel (<i>trachurus murphyi</i>) distribution peculiarities in the high seas of the south pacific in relation to the population structure. Soldat V.T., Kolomeiko F.V., Glubokov A.I., Nesterov A.A. ,Chernyshkov P.P., Timokhin E.N. |
| 14.00 – 15.30 | Lunch | |

- 15.30h #24. Research and management of Chilean Jack Mackerel (*Trachurus murphyi*) exploited in the South East Pacific Ocean. Government of Chile, Undersecretariat for Fisheries.
- 15.45 – 16.15 Discussion Jack mackerel stock structure
- 16.15 – 16.45 Coffee break
- 16.45 – 18.00 Discussion Jack mackerel stock structure (cont'd)
- 18.00 End first day

Information papers

- #1. Seasonal distribution and abundance of jack mackerel (*Trachurus murphyi*) eggs and larvae off northern Chile 1981-2007 Mauricio Braun (mbraun@ifop.cl) y Vivian Valenzuela. Instituto de Fomento Pesquero.

Tuesday 01

- 09.00 – 9.15
- Review of previous sessions.
- 09.15 – 11.00
- Review of report of stock structure working hypotheses and discussion of implications for stock assessment
- 11.00 – 11.30 Coffee break

Session 3. Jack mackerel stock assessment data and surveys

Introductory conference

- 11.30h – 12.00h Surveys in species with large spatial distribution, by Tore Stromme- Institute of Marine Research, Norway

Presentation of papers

- | <u>Hour</u> | <u>number paper</u> | <u>Title</u> |
|-------------|---------------------|--|
| 12.00h | #9. | Jack Mackerel (<i>Trachurus murphyi</i>) spatial distribution and seasonal acoustic biomass estimated in north of Chile. 1981 - 1990. Jorge Castillo P. (jcastillo@ifop.cl). Instituto de Fomento Pesquero (Blanco 839, Valparaíso, Chile). |
| 12.20h | #11. | Jack Mackerel (<i>Trachurus Murphyi</i> , Nichols, 1920) acoustic survey in the central coast of Chile José Córdova (jcordova@ifop.cl), Roberto Bahamonde and Victor Catasti. Instituto de Fomento Pesquero – IFOP- Chile. |
| 12.40h | #16. | Distribution changes and interactions of Jack Mackerel off Peru as observed using acoustics (1983-2006). Mariano Gutiérrez (1), Arnaud Bertrand (2), Michael Ballón (2), Pepe Espinoza (3) , Ana Alegre (3) and Francois Gerlotto (4). (1) TASA- Perú, (2) IRD – France, (3) IMARPE-Peru. |
| 13.00h | #13. | Reproductive Parameters and Spawning Biomass of Jack Mackerel (<i>Trachurus murphyi</i>), in 1999-2006, determined by The Daily Egg Production Method. Patricia Ruiz(1), Aquiles Sepúlveda(1), Luis Cubillos(2), Ciro Oyarzun(2), Javier Chong(3). (1) Instituto de Investigación pesquera (INPESCA) - Chile, (2) Universidad de Concepción-Chile. |

- 13.20h #15. Report of data collection on Jack mackerel in South-East Pacific. Min Zhang, Xiaorong Zou, Yingqi Zhou* Shanghai Ocean University, China.
- 13.40h #12. Catch size compositions for jack mackerel (*Trachurus murphyi*) off Chile (1975-2006) Claudio Bernal (cbernal@ifop.cl), Antonio Aranís, Carlos Martínez, Cristian Canales. Instituto de Fomento Pesquero (IFOP)- Chile.
- 14.00 – 15.30 Lunch
- 15.30h #18. The fishery for jack mackerel in the Eastern Central Pacific by Dutch trawlers in 2007. Ad Corten (adcorten@yahoo.co.uk).
- 15.50h #19. An overview of the New Zealand jack mackerel fishery: catch composition, catch trends, seasonality and length-frequency composition. Andrew Penney (andrew.penney@fish.govt.nz) and Paul Taylor.
- 16.10h #10. Catch per Unit Effort of Jack Mackerel (*Trachurus murphyi*) of the purse seine fishery off south-central Chile (32°10' – 40°10' S) 1981-2005. Cristian Canales (ccanales@ifop.cl), L. Caballero y A. Aranís. Instituto de Fomento Pesquero (IFOP) Chile.
- 16.30 – 17.00 Coffee break
- 17.00h #17. Program Bio-oceanographic Research of resources Jack mackerel and Pacific mackerel in Peru. Miguel Ñiquen Carranza (mñiquen@imarpe.gob.pe) Instituto del Mar del Perú (IMARPE)- Perú.
- 18.00 End second day

Information papers

- #8. Methodology employed for age determination in Chilean Jack Mackerel (*Trachurus murphyi*). V. Ojeda (vojeda@ifop.cl), V. Bocic y L. Muñoz. Instituto de Fomento Pesquero (IFOP) - Chile.
- #14. Short review of natural mortality and size at first maturity on jack mackerel (*Trachurus murphyi*) in the southeastern Pacific Luis Cubillos (1), Claudio Gatica (2), Rodolfo Serra (3). (1) Universidad de Concepción, (2) Instituto de Investigación Pesquera y (3) IFOP-Chile

Wednesday 02

- 09.00 – 9.15 Review of previous sessions.
- 09.15 – 11.00 Discussion Jack mackerel stock assessment data and surveys
- 11.00 – 11.30 Coffee break
- 11.30h – 14.00 Discussion Jack mackerel stock assessment data and surveys (cont'd)
- 14.00 – 15.30 Lunch

Session 4. Stock assessment approaches

Introductory conference

15.30h – 16.00h Assessment approaches when spatial distribution adds uncertainty to stock structure, by James Ianelli, NOAA, USA.

16.15 – 16.45 Coffee break

| <u>Hour</u> | <u>number paper</u> | <u>Title</u> |
|-------------|---------------------|---|
| 16.45h | #20. | Chilean jack mackerel stock assessment model. Cristian Canales (ccanales@ifop.cl) y Rodolfo Serra. Instituto de Fomento Pesquero (IFOP) - Chile. |
| 17.00h | #21. | Maximum sustainable yield (MYS) and optimum effort of fishing of jack and pacific mackerel (<i>Trachurus murphy</i> , <i>scomber japonicus</i>) in Perú (1997-2006). Christian Garcia (cgarcia@imarpe.gob.pe). Instituto del Mar del Perú (IMARPE) – Perú. |
| 17.20h | #22. | Preliminary estimation of current state of Chilean Jack Mackerel (<i>Trachurus murphyi</i>) stock in the high seas of the South East Pacific. Dmitry Vasilyev (1), Alexander Glubokov (1) (glubokov@vniro.ru) and Doonam Kim.(2). (1) Russian Federal Research Institute of Fisheries and Oceanography (VNIRO), (2) National Fisheries Research and Development Institute (NFRDI), Busan, Rep. of Korea. Presentation |
| 18.00 | | End third day |

Information papers

#25. Updated Status of the Chilean Jack Mackerel Stock (presented in 5th Conference SPRFMO, Guayaquil 2008). C. Canales & R. Serra, 2008

Thursday 03

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|----------------|---|
| 09.00 – 9.15 | Review of previous sessions. |
| 09.15 – 11.00 | Discussion Jack mackerel Stock assessment approaches |
| 11.00 – 11.30 | Coffee break |
| 11.30h – 14.00 | Discussion Jack mackerel Stock assessment approaches (cont'd) |
| 14.00 – 15.30 | Lunch |

Session 5. Jack mackerel stock structure research programme

15.30h #23. Population structure of the Chilean jack mackerel, *Trachurus murphyi*, in the South Pacific Ocean: full proposal for discussion for an international joint research. Rodolfo Serra (Chile) & Alexander Glubocov (Russia)

16.15 – 16.45 Coffee break

16.45 – 18.00 Discussion on Research Programme Proposal

Conclusions on Research Programme Proposal

18.00 End fourth day

Friday 04

09.00 – 12.00 Presentation, review and approval of the Report of the Workshop (Rapporteurs)

13.00 – 14.00 Public presentation of the Final Report