

International Seminar

“MANAGEMENT OF AQUATIC RESOURCES WITH AN ECOSYSTEM APPROACH: ADVANCES, GAPS AND PERSPECTIVES”

Introduction:

In 2013, The General Law of Fishing and Aquaculture states that management of aquatic resources in Chile must advance towards Management with an Ecosystem Approach, which will obviously take some time. During the XXXVII Congress of Ocean Sciences in 2017, the Pontificia Universidad Católica de Valparaíso (PUCV) and the Universidad de Concepción (UDEC) organized the symposium “Management of Aquatic Resource Species with an Ecosystem Approach”. Then in the XXXVIII Congreso de Ciencias del Mar of 2018, the Sociedad Chilena de Ciencias del Mar (SCHCM) and the Instituto de Fomento Pesquero (IFOP) organized the symposium “Ecosystem Approach for the Management of Fisheries in Chile in the context of Climate Change” with national and international scientists, establishing a commitment to review the situation after two years.

This is thus an adequate moment to re-open a discussion on how the topic is being handled, which are the gaps and the path forward to make current management to follow an ecosystem approach in a reasonable time. This is relevant due to the deteriorated state of an important number of fisheries that need recovery actions, and to the problems in aquaculture associated development beyond carrying capacities of the ecosystems, as well as considering the evidence of the impacts of climate change in the oceans.

The Seminar is an invitation of SCHCM and IFOP to share visions and experiences, from local to international scopes, especially on the research associated with the management of the fisheries and aquaculture systems. We have the commitment of national and international speakers who will inform us on how is this topic being advanced, which are the gaps, how to improve the collaboration and to discuss a roadmap to address challenges.

Modality:

Modules of 15-minute presentations and moderated discussion panels. Some general questions will guide the discussion, according to the module.

Target audience:

Researchers, academics, students, representatives of the public and private sectors, users, NGOs, international institutions and interested parties.

Dates and format:

Transmission Facebook live @schmar, on December 1-3, 2020.
Responsible Institutions: SCHCM and IFOP.

Organizing Committee:

Carlos Montenegro (IFOP), Carolina Lang (IFOP- UBC), Claudia Andrade (SCHCM, Universidad de Magallanes) and Eleuterio Yáñez (SCHCM, Coordinator)

December **01**



CHILEAN TIME

11:00 - 13:15 hrs. / Moderator: Dr. Carlos Montenegro (IFOP)

Inauguration: Marcelo Oliva (President of SCHCM) and Luis Parot (IFOP Director)

MODULE 1

EXPOSE:



A perspective on the challenges of the ecosystem approach.

Luis Parot
IFOP Director



Perspectives of the management of fisheries and Aquaculture with an ecosystem approach in Chile.

Mauro Urbina
SUBPESCA



Interdisciplinary research as an essential element to implement the ecosystem approach to aquaculture.

Renato Quiñones
INCAR Director



Aquaculture management with an ecosystem approach: a global vision.

José Aguilar-Manjarrez
FAO Aquaculture Officer

17:00 - 19:30 hrs. / Moderator: Dr. María Ángela Barbieri (Titular Professor PUCV)

EXPOSE:



Advances in the practical implementation of an ecosystem approach to Aquaculture in Chile.

Doris Soto
INCAR



Sustainable development of Aquaculture: current tendencies and challenges.

Alejandro Buschmann
ULAGOS



Environmental modelling in the Patagonian ecosystems: Tools for coastal management, with an emphasis on aquaculture.

Elías Pinilla
IFOP



Hydrodynamics modelling and biophysical coupling in fjord systems.

Andrés Sepúlveda
UDEP



Crustacean exploitation and biodiversity in hard bottoms in Patagonian fjords.

Giovanni Danneri
CIEP Director

MODULE 2

December 02

**MODULE
3**

11:00 - 13:15 hrs. / Moderator: Dr. Gustavo San Martin (SUBPESCA)

EXPOSE:



Tools for management with an ecosystem approach in fisheries and Aquaculture in Chile.

Claudio Silva
IOS Center



Perceptions, advances and gaps in the implementation of the ecosystem approach to fisheries management.

Stefan Gelcich
PUC



Ecosystem approach in research and administration of fisheries: a reflection.

Eleuterio Yáñez
Titular Professor PUCV



Advances towards an ecosystem approach to fisheries of highly migratory species: perspectives and future directions.

Patricia Zarate
IFOP

**MODULE
4**

17:00 - 19:15 hrs. / Moderator: M.Sc. Mauricio Gálvez (IOS Center)

EXPOSE:



Ecosystem modeling in the anchovy fishery between Atacama and Coquimbo.

Carlos Montenegro
IFOP



Ecosystem approach to the southern sardine fishery in inland seas of the X Región de los Lagos.

Sergio Neira
UDEC



Modeling tools applied to understanding spatial structure of the mackerel in the southeastern Pacific.

Sebastián Vásquez
INPESCA



Indicators and models in the management of fisheries species with an ecosystem approach in the north of the Humboldt Current ecosystem.

Jorge Tam
IMARPE, Perú

December **03****MODULE
5****11:00 - 13:30 hrs.** / Moderator: Dr. Patricio Bernal (CSIRO-Chile Director) / simultaneous translation.

Introduction: (moderator)

EXPOSE:

Advancing ecosystem based management in small-scale fisheries through a multi-species approach, case studies from Latin America.

Kendra Karr
EDF, USA



Ecosystem models, a blurred future versus a precise failure?. An example case for a Vulnerable Marine Ecosystem.

Javier Porobic
CSIRO, Australia



Making ecosystem based management operational: EwE's contribution?

Villy Crithensen
UBC, Canada



Ecosystem modeling to improve fisheries management in the Gulf of Mexico.

David Chagaris
UF, USA

Note: Time zone GMT-3 (Santiago de Chile)

Acronyms:

SUBPESCA	Subsecretaría de Pesca y Acuicultura
INCAR	Centro Interdisciplinaria para la Investigación Acuícola
FAO	Food and Agriculture Organization
ULAGOS	Universidad de Los Lagos
CIEP	Centro de Investigación en Ecosistemas de la Patagonia
Centro IOS	Centro de Investigación Océano Sustentable
PUC	Pontificia Universidad Católica de Chile
INPESCA	Instituto de Investigación Pesquera
IMARPE	Instituto del Mar del Perú
CSIRO	Commonwealth Scientific and Industrial Research Organization
NGOs	Non-Governmental Organizations
EDF	Environmental Defense Fund
UBC	University of British Columbia
UF	University of Florida