

The Workshop Report

The SACC-HD/SACC/CRN2076 Workshop entitled “**Climate Change and Artisanal Fisheries: Pathway to Sustainable Development in a Green Economy Context**” was held in Rio Grande, Brazil, on June, 01-02, 2011.

SACC-HD Co-PIs, students, collaborators, and guests contributed to the workshop, with rich discussion of the activities being currently developed by the participants.

Activities of the day 01 – June 01, 2011:

During the morning of day one the foreign guests visited to the Coastal Economics Research Unit (UPEC) at CEEMA Laboratory – ICEAC/FURG. In this occasion it was presented the researchs projects related to the theme of the workshop. All the presented projects are being developed in the UPEC-CEEMA Laboratory (www.upec.furg.br).

After lunch, Dr. Ussif Rashid Sumaila presented a conference entitled “Green Economy and Fisheries”, in which both the local society and academic community at Furg and others related institutions participated. After Rashid’s presentation some participants discussed specific points of view about Climate Change, Fisheries, Green Economy and Governance



Rashid’s Presentation

Activities of the day 02 – June 02, 2011

MORNING PRESENTATIONS

According to the programmed agenda of workshop, in the morning of the day two was dedicated to the scientific presentations by participants.

Dr. João Paes Vieira presented a description of the Mullet fisheries in Patos Lagoon and adjacent coastal area. He also presented the influences of oceanographic conditions in the Pacific and Atlantic Ocean on mullet juvenile abundance and mullet fishery landing.



João Paes Vieira - presentation

The Master Student Thaís Araújo presented her work advised by Jorge Pablo Castello talking about the potential effects of climate changes on the mullet population structure and dynamic.



Thaís Araújo - presentation

Dra. Patrícia Raggi Abdallah evidenced the effect of climate change on artisanal fisheries in the Patos Lagoon estuary and coastal adjacent area, Brazil: socioeconomic impacts. She also described the evolution of artisanal fisheries economics in Rio Grande do Sul state pointing out the mainly economic species commercialized in the region.



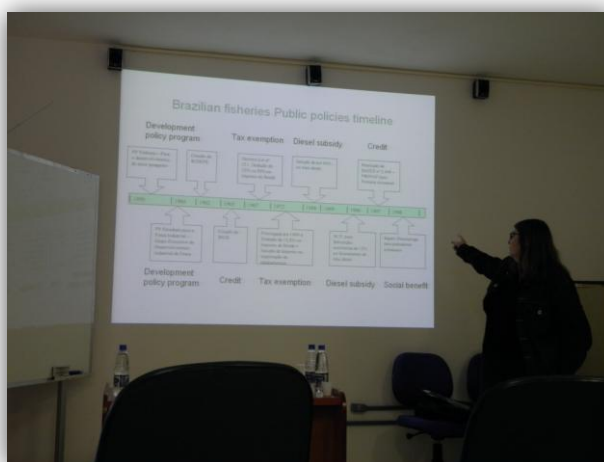
Patrícia Abdallah - presentation

Dr. Denis Hellebrandt did his presentation talking about social vulnerability and adaptation of fisherfolk to climate change – the case of the mullet fishery. He showed results recently obtained.



Denis Hellebrandt - presentation

The Master Student Luceni Hellebrandt presented about the conflicts in artisanal fisheries in Patos Lagoon region. She showed some results about her Master work while student linked to the IAI-SACC-HD Project.



Luceni Hellebrandt - presentation

AFTERNOON PRESENTATIONS

The afternoon presentations had as proposal joint researchers, its correlated areas and ongoing projects with the main theme of the workshop, **“Climate Change and Artisanal Fisheries: Pathway to Sustainable Development in a Green Economy Context”**.

Each presenter showed their projects, its connection with the theme of the workshop, the main points that can be developed in the direction to attend one of the objective of the workshop: think about their research proposals focusing on sustainable development in the context of a green economy.

Dr. Lauro Saint Pastous Madureira , director of Laboratory of Fisheries Technology and Hydroacoustics, Oceanographic Institute – IO/FURG, presented about the International Trade Certificate for Processed Products of Anchoita. He showed the anchovy abundance in South Atlantic of Brazil, marine productivity of this specie,

some perspectives. In the sequence, Lauro commented that the ongoing Project is being supported by Ministry of Fisheries and Ministry of Science and Technology (MCT-CNPq), pointing out as a proposal of the Project, the development of processed products using anchovy (*Engraulis Anchoita*), such as: canned anchovy, smoked anchovy, nuggets, fishburgers, etc. The canned anchovy is now part of a large scholar meals experiment. Analysis of economic viability and commercialization of these new processed products are being done. However, Lauro Madureira pointed out that anchovy fishery is still not real in Brazil. All achievements so far will depend on an appropriate anchovy stock management. This will only be safe if Brazil starts this new fishery under the Marine Stewardship Council's certification program for sustainable and well-managed fisheries.



Lauro S. Madureira - presentation

Dr. Carlos Alberto Eiras Garcia (Director of Oceanographic Institute – IO/FURG) and Dra. Margareth Copertino (from Oceanographic Institute – IO/FURG) presented the Rede Clima/INCT/Zonas Costeiras – MCT”, a network for Climate Change and Coastal Zone that was built in 2009 (www.zonascosteiras.com.br). The management team are Dr. Carlos A. E. Garcia, Dr. José H. Muelbert and Dra. Margareth Copertino. Garcia showed the overall objectives of the Rede Clima / Zonas Costeiras as “assess the state of knowledge, identify gaps, establish protocols, coordinate / integrate projects that investigate the vulnerability and the effects of climate change on Brazilian coastal zones, and propose actions in conjunction with organized sectors of society. Among the itens presented, Dr. Carlos and Dra. Margareth commented scientific themes studied in this network, some of them correlated directly with the theme developed in our workshop, such as: coastal lagoons and wetlands, fishery sócio-economy, education and Science communication and media representation. At

the end of Dr. Carlos' presentation were discussed new approaches and lines of research into the topic of climate change and coastal areas, which are still in early stages in Brazil, e.g., adaptation to climate change in coastal zones - the role played by Brazil.



Carlos A. E. Garcia - presentation

Dra. Daniela Kalikoski (from Human Science Institute – ICHI/FURG) and Marcelo Vasconcelos (from Oceanographic Institute – IO/FURG) presented the results of their developed project entitled “The current number of Artisanal Fisheries in Patos Lagoon Region, FAO/MPA Project”. Their presentation contributed to understand the state of the art of the artisanal fisheries in Patos Lagoon region. They showed several socioeconomic and technological indicators built with the collected data by their project in 2010 and 2011. It was pointed out the importance of the results acquired with this project as support to improve public policies to the artisanal fisheries in the analysed region.



Daniela Kalikoski - presentation

Mauro Ruffino presented the ABCPesca as potential institution to integrate actions to evaluate possible impacts of the climatic changes in the fishing activity. Mauro Ruffino is the Director of Brazilian Fisheries Association – ABCPesca. His presentation evidenced the role of the Fishery Association to improve the knowledge and discussion about the impacts of climate change on fisheries activity and he also showed some case studies of this subject in development in Brazil.



Mauro Ruffino - presentation

Dr. Ussifi Rashid Sumaila, Director of Fisheries Economics Research Unit in the Fisheries Centre, from University of British Columbia (FERU/FC/UBC) showed the ongoing projects related to the workshop theme that they are developing in Fishery Centre and its possible connection with the subject discussed in our workshop. Rashid reported the work between FERU and SACC-HD Project and highlighted the possibilities of strengthening the relationship between our projects and researchers, developing this theme: climate change, fisheries and human dimension.



Ussif Rashid Sumaila – presentation

Dr. Milton Asmus, Coordinator of Graduate Program in Coastal Management at University of Rio Grande (PPGC/FURG), showed the importance of this Program while building capacity, building human capital in Coastal Management. Dr. Milton Asmus did a brief description of the structure of the Program, emphasizing the main areas of research of a graduate program in Coastal Management, such as: characterization and diagnosis of coastal and marine systems; planning and management of coastal and marine systems; public policies and coastal and marine governance. Pointed out these research areas linked directly with the development of our project and the importance while attend the lack of human resources in this kind of study in Brazil.



Milton Asmus - presentation

After all presentations, there was a wrap up session organized by Dr. Milton Asmus and Dr. Denis Hellebrandt. All participants gave their opinion and suggestion in to produce a written common including the themes discussed during the presentation however, with focus to the sustainable development in a context of a green economy. The facilitators (Dr. Milton Asmus and Dr. Denis Hellebrandt) listed the points highlighted by all to be worked as a letter of support to add value in the sustainable development in a context of green economy at Rio+20 Event (next year, 2012).

Patrícia Raggi Abdallah
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Addendum Human Dimension of SACC Project – CRN2076
IAI Workshop Report
June 01 02, 2011.