



**Science For Peace and Security Program
(NFA)
FINAL Workshop on
EXPERIENCES AND CHALLENGES ON
SUSTAINABLE USE AND DEVELOPMENT
OF COASTAL LAGOONS**

October 20-24, 2008

Sarigerme, Dalaman, TURKEY

**Announcement
and
Pre Registration**

in cooperation with



NATO CCMS Pilot Study Group on
Ecosystem Modeling of Coastal Lagoons for Sustainable Management



BACKGROUND

The NATO-CCMS Pilot Study on "Ecosystem Modeling of Coastal Lagoons for Sustainable Management" was initiated in 1995. An international group of expert scientist and engineers was brought together from NATO Partner Countries and European Alliance Partner Countries (EAPC) - the Lagoon Ecosystem Modeling for Sustainable Management Group (LEMSM). Since establishment, the LEMS Group has been expanded with expert scientist and engineers from Central Asia and Northern Africa. LEMS has investigated the use of hydrodynamic and ecological models and decision-making processes at workshops held in Turkey (1995, 1997, 2000, 2002), USA (1996), Poland (1998), Portugal (1998), Romania (1999), Spain (1999), Kyrgyzstan (2003), Lithuania (2004), Russia (2004), and Morocco (2006). The work has resulted in the development and/or promoting the use of advanced tools for strategically managing sensitive natural resources on a landscape scale. Scientists, engineers, decision makers from local, regional, and national governments along with the university staff of host countries, have participated in workshops and international forums held for identifying and evaluating scientific and management practices.

The outputs from the LEMS Group are noteworthy:

Coastal Lagoons: Ecosystem Processes and Modeling for Sustainable Use and Development (CRC Press 2005) - The book represents a compendium of thinking by internationally recognized scientists participating in the NATO-CCMS Pilot Study, the LEMS Group. It describes the concepts, models, and data needed to design and implement sustainable management programs for the long-term sustainability of coastal lagoons. The book promotes decision-making processes that consider the hydrodynamic and ecological conditions of coastal lagoons as critical for managing development and protection of sensitive resources in coastal lagoons and has applications to other ecosystems. It is a valuable tool for managers designing a sound, ecosystem-oriented, model-based sustainable development approach to resource management.

Reports to the National governments for improved management of targeted natural resources for sustained use and development.

The following noted countries invited the LEMS technical experts to their countries to evaluate existing management activities and to develop recommendations for integrated management. Management strategies consider historic and existing practice as well as management of anticipated local, regional, and global anthropogenic effects. The work was sponsored by NATO to enhance stability with programs aimed at establishing and enhancing communications within the scientific community. Country Reports were produced for:

Republic of Kyrgyzstan – Management of Lake Issyk Kul, Cholopon-Ata, Sept, 2003
Russia – Management of Vistula Lagoon, Svetlogorsk, Kaliningrad, May, 2004
Lithuania – Management of Curonian Lagoon, Jodkrante, May, 2004
Morocco – Management of Oualidia Lagoon, El Jadida, June, 2006

NATO sponsored Advanced Study Institute (ASI) was held in Istanbul, Turkey in December 2005. The ASI transferred information and knowledge of the NATO CCMS Pilot Study Group on Ecosystem Modeling of Coastal Lagoons for Sustainable Management, the LEMS Group. The ASI provided guidance on the use of models as a tool for rapid response and decision-making in today's climate of terrorism threat. The ASI specifically emphasized the need for maintaining current scientific data and modeling in management of lagoon systems in the context of emergency conditions. Further, it defined decision-making processes in the context of assessment, diagnosis, and response to a terrorist threat on a lagoon system. Finally, a scenario-based terrorist attack simulation provided for the development of skills in managing catastrophic events. Fifty-five students and 20 expert scientist instructors from 9 countries attended the ASI. NATO sponsored the ASI in recognition of the complex and emerging 21st century threats and hazards that demand a unified and coordinated approach to catastrophic incident management natural or manmade.

Assessment of the Fate and Effects of Toxic Agents on Water Resources (Springer, 2007) – The book addresses the serious challenges and growing current threats of terrorism and other anthropogenic pressures on important and sensitive ecosystems. It focuses on the development of a sustainable management plan as a base for Emergency Response Plans. The book addresses how sustainable use and development plans are used as a foundation in response to chemical, biological, radiological, or nuclear (CBRN) incidences. It identifies the use of hydrodynamic and ecological models as tools for use in emergency response. Guidance and background material on decision support systems for emergency response are provided. Training materials also are identified that include practice exercises and decision-making scenarios. The book is reflective of the instruction provided at the NATO sponsored Advanced Study Institute (ASI) held in Istanbul, Turkey in December, 2005.

Sustainable Use and Development of Watersheds (Springer, 2008) - This book is a result of the NATO- SPS Workshop held in Istanbul, Turkey in October 2007. The goal of the Workshop was to provide knowledge and build skills of scientists, engineers, and decision- and policy-makers for the management of watersheds and catastrophic events. The focus of this effort was the transfer information and knowledge gained by the LEMS group (NATO CCMS Pilot Study Group on Ecosystem Modeling of Coastal Lagoons for Sustainable Management) during their 12 year NATO-CCMS Pilot Study to international scientists and decision-makers. The book specifically reframes the need for decision support tools and scientific knowledge in watershed management in the context of integrated multidisciplinary approach, approach.

AIM and SCOPE

The goal of this WS is to review, discuss, and conclude all information and knowledge gained by the LEMS group (NATO CCMS Pilot Study Group on Ecosystem Modeling of Coastal Lagoons for Sustainable Management) during their 13 year NATO-CCMS Pilot Study. and the WS also will serve to transfer recent information and knowledge to participants from multiple disciplines on sustainable use and development of coastal lagoons. Advanced tools and decision-making techniques will be presented and management actions to minimize and mitigate impacts of development on human security and peace.

Coastal lagoons are a critical natural capital that supports the socio-economic systems within their watersheds. As such, lagoons are extremely important for human security and peace. They are consequently a significant target for terrorism.

Participants will be exposed to four WS themes that are needed, in combination, for a rapid response: (i) decision support systems and tools including modeling, (ii) socioeconomic issues and financing, (iii) management, (iv) policy development needs , decision-making, and implementation.

The WS sill involves case study presentations on implementation actions being taken. Concurrent work group sessions will address modeling and decision support tools. Work group reports will result in understanding of the four WS themes. A WS report will include conclusions and recommendations for implementation of sustainable use and development practices. The first 2 days of the workshop, these groups will work separately for a day, and then they come together. Participants will benefit from the very recent sustainable use and development applications based on an "ecosystem approach" for decision-making. They will focus on how to minimize and mitigate the effects of development on the natural capital of coastal lagoons to ensure protection of socio-economic systems as well as human security and peace. The program of study will not only be challenging but will embrace a "hands on" learning experience.

VENUE and ACCOMMODATION

IBER Hotel, Sarigerme, Dalaman, Turkey.

IBER Hotel is located on a beautiful sandy bay and a long, wide sandy beach about 15 km far from the town of Dalaman. The little town of Sarigerme is in the distance of 10-minute walk. Please refer to

<http://www.iberotel.com/en/hotels/details.php?id=7>

for more information. IBER Hotel offers all-inclusive hosting.

All-inclusive accommodation costs of NATO granted participants will be paid. We will be please to make reservation of other participants if they inform us about their flight, arrival, and departure time to Dalaman Airport.

The IBER Hotel offers very specific rates for accompanying person (all inclusive) as given below:

Single room : 48 Euros per day

Double room: 45 Euros per day per second adult person and 34 Euro per day for third adult person.

Children under 12 years old: no cost, free

Accompanying persons can join all social activities.

TRAVELLING

There are various connection flights to Dalaman Airport from Istanbul International Airport. Airline tickets of NATO granted participants will be provided by the Workshop Secretary and sent to participants. Other participants should plan their travel. Please inform us of your plans so that ground transportation arrangements can be made.

PROGRAM AT A GLANCE

Monday, Oct 20 th	Welcome speech Country level presentations - advances in coastal lagoons management, recent model and decision support tools implementations
Tuesday, Oct 21 st	Country level presentations - advances in coastal lagoons management, recent model and decision support tools implementations
Wednesday, Oct 22 nd	Site Study Boat Tour on Koycegiz – Dalyan Lagoon
Thursday, Oct 23 rd	Group workshops Report preparation
Friday, Oct 24 th	Presentations of group works Conclusions & recommendations Brief report

Starting from the first day, there will be specific evening sessions to present case studies about implications in different countries

Social program: Dinner party and welcome cocktail, and surprise activities

CALL FOR ABSTRACT and PRESENTATION

The Organizing Committee invites participants to submit an enlarged/expanded abstract of their presentation before September 22, 2008. These abstracts will be published and distribute to participants.

All PP presentations will be published on www.igemportal.org

PRE-REGISTRATION

Please complete and send the following Pre-Registration Form to the Workshop Secretariat by mail, fax or e-mail before 04 August, 2008.

PRE- REGISTRATION FORM

First Name:	Last Name:
Title:	Institute:
Address:	Telephone: Fax : E-mail :
Name of Accompanying adult:	Name and age of accompanying children:

PRE and POST COURSES

We would also like to invite you to pre and post courses of the workshop.

Water operational models course series: MOHID

by Luis Fernandes, IST – MARETEC, Portugal,
13-17 october 2008 (5 DAYS)

Multivariate statistics for aquatic ecology

by Dr. Brenda Rashleigh, USEPA and
Dr. Sofia Gamito (Univ of Algarve, Portugal),
27-29 october 2008 (3 DAYS)

Please find their announcement and registrations forms on <http://www.igemportal.org/en/?page=form>

ORGANISING COMMITTEE

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