

## **ECOSYSTEM MODELLING OF COASTAL LAGOONS FOR SUSTAINABLE MANAGEMENT, PHASE 2**

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### **2<sup>nd</sup> Workshop**

Issyk Lake, Krygzstan , September 29- October 03, 2003.

The NATO CCMS Pilot Study on Ecosystem Modeling of Coastal Lagoons for Sustainable Management” met in Cholpon-Ata on the coast of Lake Issyk-Kul. Dr. Ethem Gonenc, Director of the Study, described the purpose of the meeting in Kyrgyzstan as an exchange of opinions, recommendation, knowledge, and experience on scientifically based resource management and holding of cooperative scientific investigations and projects.

During the workshop, all characteristics of Issyk-Kul Lake were presented, the problems were defined and sustainability of the lake was discussed. At the same time, European American experiences and approaches were presented and experts advised Kyrgyzstan government on tools and methodologies to help sustained use of the Issyk-Kul Lake Watershed.

Mr. Satyvaldy Chyrmashev, Minister of Ecology and Emergency Situation of the Kyrgyz Republic, stated that the NATO CCMS International scientific experts were invited to assess existing natural resource problems and foster collaboration for future work on sustaining Kyrgystan’s resources. Mr. Chyrmashev identified problems of soil erosion and forest degradation. He stated that management of rare and endangered species was a major concern since they are indicators of the health of the human environment. Mr. Chyrmashev also mentioned that one of the most serious problems is municipal sewage, agricultural and industrial wastes management.

The NATO CCMS Scientists represent European Countries, Russia, Kazakhstan, Azerbaijan, Canada, and the United States as well as Kyrgyzstan. The Scientific Study group has been meeting to address resources management issues since 1995. Areas of investigation have been principally focused on Europe and Turkey. This is the first meeting of the group in Central Asia. Kyrgyzstan was selected by NATO CCMS for the workshop because the member correspondent of

the National Academy of Kyrgyz Republic, Dr. of biological sciences, Prof., Pro-rector on scientific works Biymyrza Toktoraliev, Osh Technological University, has been an active member of the NATO International Study for three years.

It is NATO's intent to enhance stability in Central Asia with programs aimed at establishing and maintaining communications with the scientific elite. The goal is to provide scientifically based recommendations for sustained use of natural resources for future generations.

A report was prepared during the Kyrgyzstan workshop and presented to Mr. Chyrmashev and NATO-CCMS. The report addresses three specific areas of interest needed for sustained management,

1. Monitoring/Ecology/Biogeochemistry
2. Modeling of Lake Issyk-Kul
3. Management/Decision Making

### **Next Meeting**

It was decided to organize the 3<sup>rd</sup> Workshop in Kaliningrad, Russia, together with Klapedia, Lithuania.