



*NATO/CCMS Pilot Study*

*Environmental Decision-Making for Sustainable Development in Central Asia*

# **Committee on the Challenges of Modern Society (CCMS) - EAPC Meeting**

**Report on Activities of Pilot Study on  
“*Environmental Decision-Making for Sustainable  
Development in Central Asia*”**

**John E. Moerlins - Florida State University**

**Pilot Study Co-Director**

**8 April 2005**

**NATO HQ - Brussels**



*Florida State University - Institute for International Cooperative Environmental Research*

*2000 - 2005*

*NATO - Committee on the Challenges of Modern Society*





## **Central Asian Pilot Study**

### ***Three Part Presentation***

- **Part I: Summary of Recent Pilot Study Meeting: John Moerlins - Florida State University**
- **Part II: Summary of Five Year Activities of Pilot Study: John Moerlins - Florida State University**
- **Part III: Companion Presentation: Professor Elena Rodina - Kyrgyz Russian Slavic University**





## **Part I: Summary of Recent Pilot Study Meeting**

- **Dates: 8-10 March 2005**
- **Location: Wakulla Springs Lodge**
- **Countries Participating:**  
**Belgium, Kazakhstan, Kyrgyzstan, Tajikistan, Turkey, Uzbekistan, United States**
- **Focus:**  
**Comparison of Transboundary Water Management Issues (U.S. vs. Central Asia)**





## **Part I: Wakulla Springs**

- **Mouth/Origin of the Wakulla River in NC Florida**
- **One of the World's Largest Freshwater Springs**
- **Produces ~1.0 Billion G (3.8 B L) Freshwater/Day**
- **Constant YR Temperature of 70 F (21 C)**
- **Can see to depth of 100 Feet (30.5 meters)**





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## **Part I: Focus of Pilot Study Meeting**

- **Comparison of TBW Issues in U.S. & Central Asia**
- **Examples: Aral Sea & ACF Rivers (Florida-Alabama-Georgia Water Conflict)**
- **Similarities: Shared Water Among States - Conflicting/Competitive Uses Leading to Degradation of the Resource**
- **Differences: U.S. States (with Recourse at Higher Level) vs. CA Republics - (No Higher Level Recourse)**





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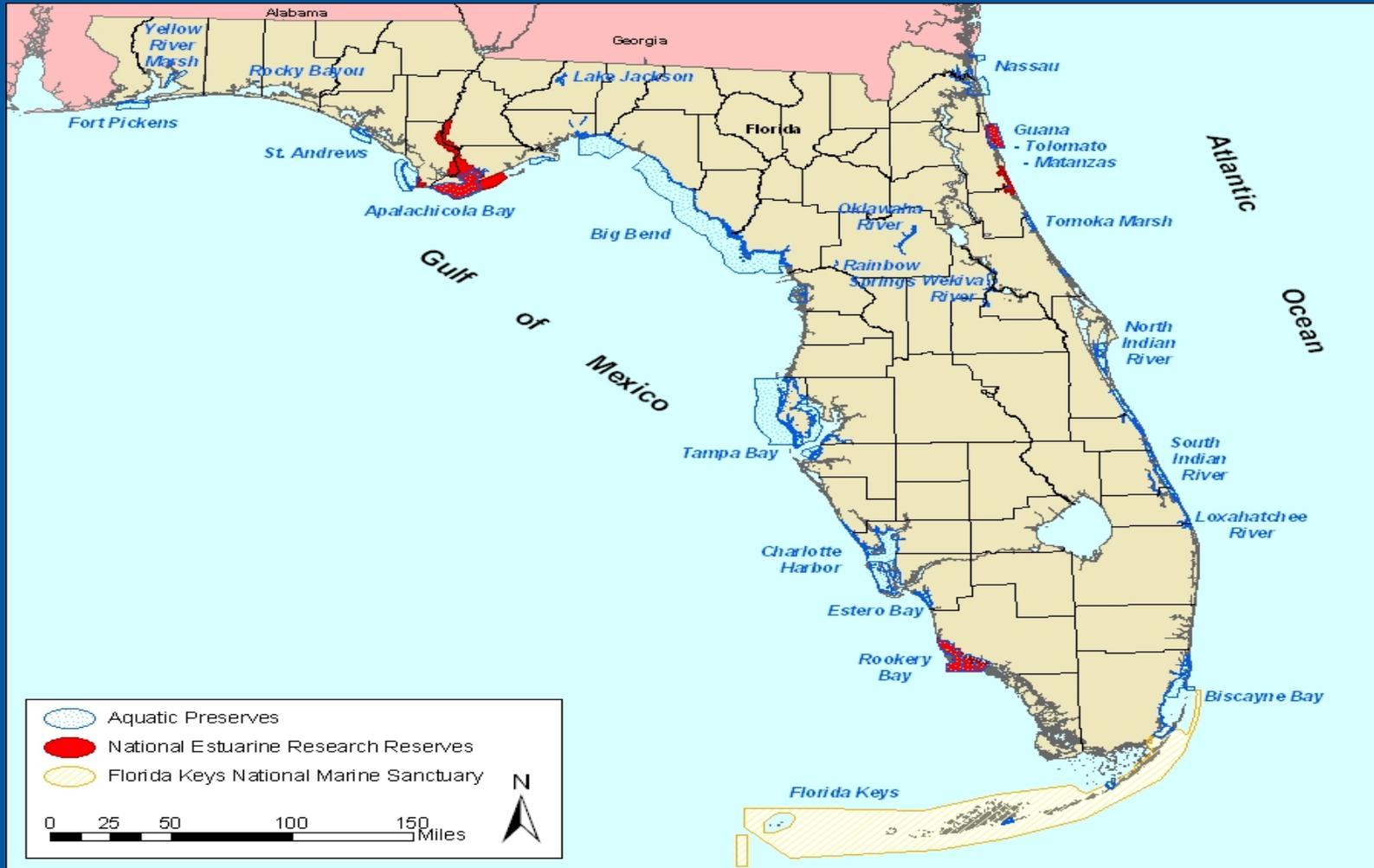
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## **Part I: Case Study of ACF Conflict in U.S.**

- **Session Leader: Former President of American Bar Association (ABA) & Chief Mediator for the ACF Conflict**
- **Panelist: Chief Technical Consultant for Florida**
- **Panelist: Most Influential NGO in Tri-State Region**
- **Panelist: Environmental Representative for State of Florida**





## Part I: Central Asian Presentations on TBW Issues

- **Each CA Expert gave a technical overview of TBW Issues in their country**
- **Discussion Session involved Comparisons of Problems & Approaches to Resolve**
- **Final Session involved identification of “Lessons Learned” from Sessions/Discussions & Recommendations for Future Activities of PS**





## **Part I: Session on Potential Follow-on Activities for the Pilot Study**

- **Focus on Water Issues: Transboundary Water Resource Allocation Issues: High Priority**
- **Educational/Technical Assistance Needs to be Addressed in Central Asia: High Priority**
- **Issues Pertaining to Regional Security & Water Sharing was Identified: High Priority**





## **Part I: Specific Proposal for Follow-on Activity**

- **Interdisciplinary Courses on Case Studies re: Economic, Legal, Technical & Socio-economic Aspects of Transboundary Water Problems**
- **Target Advanced Graduate Students, New Ph.D.s in Physical Sciences & Social Sciences & Other Environmental Scientists**





## **Part I: Proposed Courses on TBW Issues**

- **Physical Attributes about the Water Basin**
- **Management Authorities: Roles & Limitations**
- **Economic Facets of Water Basin**
- **Ecological Issues**
- **Comparative Approaches for Resolving Conflicts**





## **Part I: Second Set of Courses**

- **Negotiating Skills**
- **Modeling of Ecological Issues**
- **“Stakeholder” Involvement: Roles & Modes**
- **“Mock Negotiations”**





## **Part I: Benefits of Proposed Courses**

- **Promote Regional Security**
- **Induce Changes Leading to Improved Conflict Resolution Opportunities**
- **Introduce New Negotiating Skills (e.g., adaptive management, ecologically sustainable regional flows of water, system-wide water management - basin level)**
- **Foster Regional Collaboration rather than Competition**





## **Part II: Summary of Five-Year Activities of Central Asian Pilot Study**

- **Established in October of 2000 - Berlin Plenary Meeting**
- **Conducted Six Annual/Semi-Annual Meetings & One ARW on Risk Assessment**
- **Initial supporting member countries included USA, Turkey, Spain, Germany, Luxembourg, Belgium and Italy**





## **Part II: Objectives of the Pilot Study**

- **To Promote Improvements in Environmental Quality throughout CA by Improved Environmental Decision-Making (Via Technical Capacity Building)**
- **To Implement/Develop Improved Approaches for Addressing Environmental Problems Incorporating Sustainability & Environmental Merit into Solutions**
- **To Promote and Assist with the Further Integration of CA Environmental Scientists into the International Community of Environmental Experts**
- **To Disseminate Information on the Environmental Problems in Central Asia**





## **Part II: Countries Participating in the Pilot Study (2000-2005)**

- **NATO Countries Participating: Belgium, Canada, Denmark, Germany, Italy, Luxembourg, Spain, Turkey, United Kingdom & United States**
- **Partner Countries Participating: Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia, Tajikistan, Turkmenistan, Uzbekistan**





## **Part II: International Organizations Participating**

- **Organization for Security and Co-Operation in Europe (OSCE)**
- **NATO Scientific Affairs Division (NATO)**
- **Regional Environmental Centre for Central Asia (CAREC)**
- **The World Health Organization (WHO)**





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## Questions/Comments??

## Thank you!!



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