





# CONVENTION ON BIOLOGICAL DIVERSITY

# **DRAFT**

Distr. GENERAL

UNEP/CBD/EM-RAIW/1/3 4 December 2002

**ENGLISH ONLY** 

EXPERT MEETING ON METHODS AND GUIDELINES FOR THE RAPID ASSESSEMENT OF BIOLOGICAL DIVERSITY OF INLAND WATER ECOSYSTEMS Montreal, 2-4 December 2002

Draft report of the Expert Meeting on Methods and Guidelines for the Rapid Assessment of Biological Diversity of Inland Water Ecosystems

Note by the Executive Secretary

2-4 December 2002 - Montreal, Canada

#### INTRODUCTION

#### A. Background

- 1. In its decision IV/4 the Conference of the Parties to the Convention on Biological Diversity requested the Subsidiary Body on Scientific, Technical and Technological Advice to develop a work plan on inland water ecosystems which should include *inter alia* the development and dissemination of regional guidelines for rapid assessment of inland water biological diversity for different types of inland water ecosystems (Annex 1, para 8b). In the same decision, the Conference of the Parties requested that particular attention be given to the development of regional guidelines for rapid assessment for small island States and to pay special attention to early cooperation with the small island States in their development.
- 2. The members of the expert group were selected by the Executive Secretary in consultation with Secretariat of the Ramsar Convention Bureau from nominations provided by national focal points of the Convention on Biological Diversity (CBD) and the Ramsar Convention in accordance with the *modus operandi* of SBSTTA (Decision IV/16, annex I). The experts were selected on the basis of their expertise in the relevant field, and with due regard to geographical representation, to the special conditions of least developed countries and small island developing States, and to gender.

/...

#### B. Attendance

3. The meeting was attended by government-nominated experts from Antigua and Barbuda, Belgium, Canada, Comoros, Cuba, Ghana, Lithuania, Peru, Poland, Saint Lucia, Slovak Republic, South Africa, a representative of the Ramsar Convention Bureau and representatives of the following United Nations, intergovernmental and non-governmental organizations: the Global Environment Monitoring System (GEMS) of the United Nations Environment Programme (UNEP), the Food and Agriculture Organizations of the United Nations (FAO), IUCN - The World Conservation), Conservation International The Nature Conservancy and UQAM. A resource person from Conservation International supported the Secretariat. A list of participants is contained in Annex 1.

#### ITEM 1. OPENING OF THE MEETING

- 4. The Meeting was opened by a representative of the Executive Secretary of the Convention on Biological Diversity at 9:30 a.m., on Monday 2 December 2002. In his statement, he welcomed the participants and thanked them for making available their time and expertise to contribute to the implementation of the programme of work on inland waters.
- 5. A representative of the Executive Secretary of the Ramsar Convention also made an opening statement emphasizing the synergies that have developed between the two conventions and the relevance of the meeting to both convention processes.

#### ITEM 2. ORGANIZATIONAL MATTERS

### 2.1. Election of officers

6. At the opening session, participants from Cuba and Canada were selected as Co-chairs of the meeting.

### 2.2. Adoption of the agenda

- 7. The Expert meeting adopted the following agenda on the basis of the provisional agenda proposed in document UNEP/CBD/EM-RAIW/1/1:
  - 1. Opening of the meeting.
  - 2. Organizational matters:
    - 2.1. Election of Chairperson;
    - 2.2. Adoption of the agenda;
    - 2.3. Organization of work.
  - 3. Regional guidelines for the rapid assessment of biodiversity of inland water ecosystems.
  - 3.1 Brief review of methods for assessing biodiversity of inland water ecosystems;

/...

- 3.2 Identification of rapid assessment methods;
- 3.3 Development of regional guidelines for the application of rapid assessment methods.
- 4. Other matters.
- 5. Adoption of the report.
- 6. Closure of the meeting.

# 2.3. Organization of work

8. A member of the Secretariat of the CBD gave a brief presentation outlining the function and structure of the Convention bodies and the objectives of the meeting. The meeting agreed on the proposed organization of work, keeping it flexible to allow for working groups as needs arise.

#### ITEM 3. ISSUES FOR IN-DEPTH CONSIDERATION

# 3.1 Brief review of methods for assessing biodiversity of inland water ecosystems

- 9. The following presentations were made and discussed:
  - (a) Nick Davidson, Ramsar Bureau: The Ramsar Convention and wetland assessment;
- (b) Andrew Fraser, UNEP-GEMS: The UNEP-GEMS Programme Office for Freshwater Quality Monitoring and Assessment;
  - (c) Jean-Christophe Vié, IUCN: The IUCN Freshwater Biodiversity Assessment Programme;
- (d) Matthias Halwart, FAO: Assessment of availability and use of aquatic biodiversity in a rice-based ecosystem in Kampong Thom Province, Cambodia;
  - (e) Rudy Vannevel, Belgium: The Water Framework Directive of the European Commission (WFD);
  - (f) Riszard Kornijów, Poland: Assessing Biodiversity.

These presentations summarized existing methods for assessing inland water biological diversity and highlighted central elements for consideration in the development of guidelines for rapid assessment of the biological diversity of inland water ecosystems. They can be found on the website of the Convention.

# 3.2 Identification of rapid assessment methods

- 10. Leeanne Alonso from Conservation International introduced the background document UNEP/CBD/EM-RAIW/1/2. The approach of a decision tree, which provides a choice of options considering available resources and the purpose of the assessment was found particularly useful.
- 11. The structure and scope of the document were discussed and gaps identified.

# 3.3. Development of regional guidelines for the application of rapid assessment methods

12. To make progress on the development of regional guidelines, two Working Groups were formed. Working group 1, chaired by Jean-Christophe Vié of IUCN, addressed the introductory section of document UNEP/CBD/EM-

RAIW/1/2 including the purpose and scope, definitions and terms, issues to be considered when planning a rapid assessment, and the conceptual framework for rapid assessment. Working group 2, chaired by Wafa Hosn from UQAM, considered the decision tree and associated methodologies.

13. Representatives of small island States welcomed the guidelines and requested the Secretariat to support their rapid application through the facilitation of appropriate training events. Small island States also raised the need to strengthen taxonomic capacities, address issues of invasive alien species and promote sustainable tourism. Annex 2 summarizes the points that were raised with regard to the early cooperation with the small island States in the development of rapid-assessment methodologies.

# ITEM 4. OTHER MATTERS

14. No other matters were raised.

### ITEM 5. ADOPTION OF THE REPORT

15. The Expert Group concluded that the revised document on "Guidelines for the rapid assessment of the biological diversity of inland water ecosystems" gives advice that is useful to wide range of Parties with different circumstances, including with respect to geographic size, inland water types and institutional capacities. Pending some further editorial changes the document should be presented to the 8<sup>th</sup> meeting of the Body on Scientific, Technical and Technological Advice. It was recognized, however, that the guidelines needed to be tested and that it would be important to gather experience made with their application. The Group also recognized that additional reflections may be required with respect to ecosystem assessments. A shortage of case studies from small island developing States was also noted. The present report was adopted at the plenary meeting, on Wednesday 4 December 2002.

# ITEM 6. CLOSURE OF THE MEETING

16. Following the customary exchange of courtesies, the meeting was closed at 5 p.m. on Wednesday 4 December 2002 by the meeting Co-chair, Ms Teresita Borges Hernández.

#### Annex I

### LIST OF PARTICIPANTS

## Antigua and Barbuda

Mr Lionel Michael Chief Health Inspector Central Board of Health All Saints Road St John's Antigua and Barbuda

Tel.: +268 462 2936 +268 460 5992

E-Mail: cbh chi@yahoo.com zelmichael@hotmail.com

# Belgium

Mr Rudy Vannevel Director's Assistant Flemish Environment Agency A. Van De Maelestraat 96 B-9320 Erembodegem Belgium

Tel.: +32 53 726 626 Fax: +32 53 726 630

E-Mail: r.vannevel@vmm.be rv@pandora.be

#### Canada

Mr Joseph M. Culp Chief, Cumulative Effects on Biodiversity Project National Water Research Institute Canadian Rivers Institute (Environment Canada) and Dept. of Biology University of New Brunswick P.O. Box #45111 Fredericton, New Brunswick Canada E3B 6E1

Tel.: +1 506 458 7458 Fax: +1 506 458 7597

E-Mail: email: Joseph.Culp@ec.gc.ca

#### Comoros

Ms Fatouma Ali Abdallah Chef de service Gestion des ressources naturelles et recherche appliquée Direction Générale de l'Environnement Ministère d'Etat, Ministère des Relations extérieures, de la Francophonie et de l'Environnement, chargé des Comoriens de l'Etranger B. P. 860 Moroni, Comoros

Tel.: +269 73 63 88 (269) 73 00 18 (home)

Fax: +269 73 68 49 +269 736 357

E-Mail: dge.cc@snpt.km a\_fatouma@hotmail.com

#### Cuba

Ms Teresita Borges Hernández

Officer

Department of Environment

Ministry of Sciences, Technology and Environment

Capitolio Nacional La Habana 12000 Cuba Tel.: +53 7 8670598

Fax: +53 7 8670615

E-Mail: borges@citma.cu teresita46@yahoo.com

dianaa@infomed.sld.cu

#### Ghana

Mr Hederick R. Dankwa Research OfficerWater Research Institute Council for Scientific and Industrial Research P. O. Box 38

Achimota, Ghana Tel.: +233 21 779515 Fax: +233 21 777170

E-Mail: wri@ghana.com hrdankwa@hotmail.com

#### Lithuania

Mr Antanas Kontautas Senior Researcher Department of Biology Klaipeda University H. Manto 84

LT-5818 Klaipeda City Lithuania

Tel.: +370 46 398810 Fax: +370 46 398845 E-Mail: kontautas@gmf.ku.lt

# Peru

Ms Maria Hilda Cuadros Dulanto Fishery Ingineer, Supervisor de Programa Sectorial II National Aquaculture Direction Ministry of Production / Vice-Ministry of Fisheries Calle 1 Oeste Nº 60 Piso 5°

Lima 27 Peru

Tel.: +51 1 224 3247 Fax: +51 1 224 3247

E-Mail: mcuadrosd@minproduce.gob.pe

cuadrosf@yahoo.com

# UNEP/CBD/EM-RAIW/1/3

Page 6

Poland

Mr Ryszard Kornijów Professor

Department of Hydrobiology and Ichthyobiology

University of Agriculture in Lublin

20-950 Lublin Poland Tel.: +48 81 4456572 Fax: +48 81 4456561

E-Mail: Rkorn@ursus.ar.lublin.pl

Saint Lucia

Mr Leroy Mc. Gregor Ambroise Aquaculturist I

Department of Fisheries

Ministry of Agriculture, Forestry and Fisheries

Sir Stanislaus James Building

Waterfront

Castries Saint Lucia

Tel.: +1 758 468 4142 +1 758 452 4788(H)

Fax: +1 758 453 6314

E-Mail: deptfish@slumaffe.org

Slovak Republic

Mr Ilja Krno

Head, Hydrobiology and Parasitology Section Department of Ecology, Faculty of Natural Science

Commenius University Mlynska dolina B-2

842 15 Bratislava Slovak Republic

Tel.: +421 2 60296422 Fax: +421 2 654 290 64 E-Mail: krno@fns.uniba.sk

South Africa

Mr Geoffrey Cowan **Deputy Director** 

Department of Environmental Affairs and Tourism

Private Bag X447

Pretoria 0001 South Africa Tel.: +27 12 3103701

Fax: +27 12 3202849

E-Mail: gcowan@ozone.pwv.gov.za

#### Observers

Mr Andrew Fraser

Programme Manager

UNEP GEMS/Water Programme Office

867 Lakeshore Rd.

L7R 4A6 Burlington Ontario Canada

Tel.: +1 905 336 4919 Fax: +1 905 336 4582

E-Mail: andy.fraser@ec.gc.ca

Mr Matthias Halwart

Fishery Resources Officer (Aquaculture)

Inland Water Resources and Aquaculture Service

**FAO** 

Via delle Terme di Caracalla

Rome, Italy 00100 Italy Tel.: +39 06 5705 5080

Fax: +39 06 5705 3020

E-Mail: Matthias.Halwart@fao.org

Ms Wafa A. Hosn

Consultante, Environnement - Statistiques

Statikron Consultants 89 Boul. Beaconsfield

H9W 3Z6 Beaconsfield Ouebec Canada

Tel.: +1 514 426 9801 +1 514 803 7828

Fax: +1 514 426 8831

E-Mail: wafa.hosn@videotron.ca

Ms Mary Lammert Khoury

Aquatic Ecologist

Freshwater Initiative

The Nature Conservancy

8 S. Michigan Ave.

**Suite 2301** 

Chicago, IL 60603 United States of America

Tel.: +312 759 8017

Fax: +312 759 8409

E-Mail: mlammert@tnc.org

Mr Jean-Christophe Vié

**Deputy Coordinator** 

Species Programme

IUCN - The World Conservation Union

Rue Mauverney, 28

CH-1196 Gland Switzerland

Tel.: +41 22 999 0208 Fax: +41 22 999 0015 E-Mail: jcv@iucn.org

### **Resource Person**

Ms Leeanne E. Alonso

Director

Rapid Assessment Program, Center for Applied Biodiversity

Science

Conservation International 1919 M Street NW, Suite 600

Washington DC 20036 United States of America

Tel.: +1 202 912 1282 Fax: +1 202 912 0773

E-Mail: <a href="mailto:l.alonso@conservation.org">l.alonso@conservation.org</a>

#### **Ramsar Convention Bureau**

Mr Nick Davidson Deputy Secretary General Ramsar Convention on Wetlands Rue Mauverney 28 CH-1196 Gland Switzerland

Tel.: +41 22 999 0171 Mobile tel: +41 79 290 2622

Fax: +41 22 999 0169

E-Mail: <u>Davidson@ramsar.org</u>

#### **CBD Secretariat**

Mr Kalemani Jo Mulongoy Principal Officer Scientific, Technical and Technological Matters Secretariat of the Convention on Biological Diversity World Trade Center 393 St-Jacques St. Suite 300 Montreal (QUE) Canada H2Y 1N9 Tel.: +1 514 287 7027

Fax: +1 514 288 6588

E-mail: jo.mulongoy@biodiv.org

Mr Robert Höft
Programme Officer
Scientific Assessment
Secretariat of the Convention on Biological Diversity
World Trade Center
393 St-Jacques St. Suite 300
Montreal (QUE)
Canada H2Y 1N9

Tel.: +1 514 287 7028 Fax: +1 514 288 6588

E-mail: Robert.hoft@biodiv.org

Ms Marjo Vierros Programme Officer Marine and Coastal Biological Diversity Secretariat of the Convention on Biological Diversity World Trade Center 393, Saint-Jacques St., Suite 300 Montreal, Quebec; Canada H2Y 1N9

Tel: +1 514 287-7036 Fax: +1 514 288-6588

E-mail: marjo.vierros@biodiv.org

#### Annex II

# <u>Issues relating to early cooperation with the small island States in the development of rapid assessment methodologies</u>

# Addressing the vulnerability of small island developing States

The Secretariat of the Convention on Biological Diversity was requested to collaborate with small island developing States due to their vulnerability and the resultant threats to their biodiversity. The following issues were raised in particular:

# 1. Capacity building and training on rapid assessment;

Small island developing states requested support to enable them to build capacity on the rapid assessment of the biological diversity of inland water ecosystems. A workshop could be facilitated by the Secretariat to train relevant stakeholders on the use of the approaches developed during the Expert meeting. Particular interest was expressed in using rapid assessment methods with respect to:

- a. qualitative ad quantitative aspects of water quality;
- b. causes of biodiversity loss and water pollution (e.g. deforestation, pesticide flows, and other industries); and
- c. unsustainable land-uses (e.g. tourism, agriculture, industry).

# 2. Sustainable tourism in vulnerable ecosystems

Capacity should be built among government officials and other stakeholders on the implementation of the guidelines on sustainable tourism in vulnerable ecosystems developed by the Convention. A workshop should be organized to share relevant experiences and discuss the guidelines applicability in islands ecosystems. With a view to contributing to the 10 year review of the Barbados Programme of Action (2004), the Secretariat was requested to consider developing specific guidance to small island developing States on issues related to sustainable tourism in islands ecosystems.

### 3. Invasive alien species

The Secretariat should support the efforts of small island developing States in assessing threats to biodiversity from invasive alien species and provide guidance on the implementation of mitigation measures.

----