

CGE Hands-on Training Workshop on Vulnerability and Adaptation
Assessments for the Latin America and the Caribbean Region
Asuncion, Paraguay, 14 to 18 August 2006

Day 1: Monday, 14 August

Opening	9:00 - 9:30
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Chairperson: Ms. Lilian Portillo, Rapporteur, CGE

Welcome remarks

Mr. Luis Molinas, Executive Secretary, National Council of Environment

Opening remarks

Mr. M. Asaduzzaman, Chair, CGE

Ms. June Budhooram, UNFCCC secretariat

Coffee/tea break	9:30 - 9:45
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Overview of programme	9:45 - 10:15
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Chairperson: Mr. M. Asaduzzaman, Chair, CGE

Presentation of workshop objectives and expectations

Mr. Yolando Velasco, UNFCCC secretariat

Introduction of presenters and review of agenda

Mr. Dominique Revet, UNFCCC secretariat

UNFCCC Guidelines in reporting vulnerability and adaptation	10:15 - 11:15
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Presenter: Mr. Arthur Rolle, CGE

The objective of this session is provide the participants with the requirements for reporting and presenting information on V&A assessments in accordance the UNFCCC guidelines for the preparation of their national communications.

Overview of frameworks for vulnerability and adaptation assessments and its integration into sustainable development	11:15 - 12:30
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Presenter: Mr. Carlos Fuller, CGE

The objective of this session is to provide the participants with an overview of the various frameworks that may be used for examining the potential impacts of climate change and adaptation. In particular, this session will cover approaches to V&A assessments and different frameworks such as the UNDP's adaptation policy framework, the national adaptation programme of action and frameworks used by the Intergovernmental Panel on Climate Change and the U.S. Country Studies Programme and the United

Nations Environment Programme. It will also cover an important aspect of the integration of such assessments into sustainable development and planning at a national level.

Lunch break	12:30 - 13:30
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Integration of vulnerability and adaptation analysis	13:30 - 14:30
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Presenter: Mr. Vute Wangwacharakul, CGE

The objective of this session is to introduce to the participants practical examples of reporting on the results of integrated V&A assessments, including, examples of overall coordination, integration and reporting of information for all sectors of (general introduction and methodological framework, water resources, human health, coastal zones and infrastructure, etc.) consistent with the revised guidelines appended to decision 17/CP.8. This session will also involve:

- a) Training on models for integrated reporting of V&A including a general discussion on the key aspects of integrated assessment (e.g., temporal and spatial scales, etc.);
- b) Exercises in methods and tools and their possible applications, for performing vertical (e.g., from global, regional, to local) and/or horizontal (e.g., cross-sector) integrated V&A assessment;

Exercise in integration of vulnerability and adaptation analysis	14:30 - 16:00
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Coffee/tea break	16:00 - 16:15
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Country experience in bottom-up approach in V&A assessments	16:15 - 17:30
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Presenter: Mr. Julio Garcia (Peru)

The objective of this session is to introduce the participants to bottom-up approach in vulnerability and adaptation assessments using practical examples of countries that have developed and used this approach along side the top-down approach using models.

Day 2: Tuesday, 15 August

Summary of day 1	9:00 - 9:15
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Chairperson: Mr. Carlos Fuller, CGE

Overview of climate change scenarios	9:15 - 10:15
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Presenters: Mr. Joseph Intsiful
PRECIS, Hadley Centre for Climate Prediction and Research
Mr. Abel Centella (Cuba)

This session will provide the participants with an overview on how to develop climate change scenarios and the resources available. This session will also discuss the types of climate change scenarios and their strengths and limitations.

Coffee/tea break	10:15 - 10:30
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Climate change scenarios exercises

This session will provide the participants with the opportunity to use regional climate models in developing national climate scenarios that will serve as a basis for conducting sectoral vulnerability and adaptation assessments.

Climate change scenarios country case studies	10:30 - 12:30
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Mr. Haroldo de Oliveira Machado Filho (Brazil)
ETA-Centro de Previsão e Estudos Climáticos (CPTEC) Regional Climate Model

Mr. Abel Centella (Cuba)
Providing Regional Climates for Impact Studies (PRECIS)

Lunch break	12:30 - 13:30
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Climate change scenarios exercise: PRECIS	13:30 - 15:30
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Presenters: Mr. Joseph Intsiful
PRECIS Liaison and Training Manager
Mr. Abel Centella (Cuba)

Coffee/tea break	15:30 - 15:45
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Climate change and risk assessments	15:45 - 18:00
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The objective of this session is to provide the participants with an overview of the tools/methods used in assessing disaster risks in the context of climate change and climate variability. The session includes exercise in application of tools/methodologies.

Day 3: Wednesday, 16 August

Summary of day 2	9:00 - 9:15
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Chairperson: Mr. Arthur Rolle, CGE

Overview of socio-economic scenarios	9:15 - 10:15
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Presenter: Mr. Vute Wangwacharakul, CGE

The objective of this session is to provide a comprehensive overview of the baseline socio-economic scenarios used in V&A assessments. This session summarizes the design, development and application of baseline scenarios in order to understand how future development paths affect the vulnerability to climate change.

Coffee/tea break	10:15 - 10:30
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Socio-economic scenarios exercise	10:30 - 11:30
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Overview of sectoral tools/methodologies

Country case study on impact, V&A assessments for coastal zones	11:30 - 12:00
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Presenter: Mr. Michael Mason (Barbados)

Impact, vulnerability and adaptation assessment for coastal zones	12:00 - 13:00
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Presenter: Mr. Rob Kay

The objective of this session is to provide the participants with information on impact, vulnerability and adaptation assessment for coastal zones including:

- a) A general discussion on the impacts of climate variability and climate change, and sea level rise on coastal zones (e.g. coastal erosion, inundation, flooding) and human settlement;
- b) Methods and tools to assess impacts, V&A relating to coastal zones and human settlement: for example; OPCOM (Operational Modelling for Coastal Management); COSMO (Coastal zone Simulation Model); RamCo (an Excel-based prototype decision support tool); GIS mapping.

Lunch break	13:00 - 14:00
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Country case study on impact, V&A assessments for the water sector	14:00 - 14:30
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Presenter: Mr. Juan Mancebo (Dominican Republic)

Impact, vulnerability and adaptation assessment for the water sector	14:30 - 15:30
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Presenter: Mr. Sebastian Vicuna

The objective of this session is to provide information on Impact, vulnerability and adaptation assessment for the water resources sector including:

- a) A general discussion on the impacts of climate variability and climate change on the various aspects (e.g. availability, temporal and spatial distribution, floods, droughts, water quality, etc.) of water resources;
- b) Methods and tools to assess V&A on water resources: for example, Soil & Water Assessment Tool (SWAT); PODIUM (Policy Dialogue Model); Water Accounting for Integrated Water Management.

Coffee/tea break	15:30 - 15:45
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Country case study on impact, V&A assessments for the agriculture sector	15:45 - 16:15
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Presenter: (tbd)

Impact, vulnerability and adaptation assessment for the agriculture sector	16:15 - 17:15
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Presenter: Ms. Graciela Magrin

The objective of this session is to provide the participants with information on impact, vulnerability and adaptation assessment for the agriculture sector:

- a) A general discussion on the impacts of climate variability and change on agricultural productivity and food security;
- b) Methods, tools and issues to assess V&A in the agricultural sector: for example, Decision Support System for Agro-technology Transfer (DSSAT); Agriculture Production Systems Simulator (APSIM); Erosion Productivity Impact Calculator (EPIC); WOFOST (for estimating crop production; indicate yield variability; evaluate effects of climate changes or soil fertility changes; and determine limiting biophysical factors) and any other methods, tools or models that may be relevant given the makeup of the agricultural sector in the relevant world regions.

Country case studies on impact, V&A assessments for human health	17:15 - 18:00
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Presenter: Ms. Antonieta Rojas (Paraguay)
Ms. Magda Campos (Costa Rica)

Impact, vulnerability and adaptation assessment for human health	18:00 - 19:00
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Presenter: Mr. Paulo Ortiz (Cuba)

The objective of this session is to provide information on Impact, vulnerability and adaptation assessment for the health sector including:

1. An approach and methods needs to increase our understanding of the issue of climate variability, climate change and health assessment.
2. A general discussion on the potential impacts of climate variability and change on health sector in the region.
3. A general discussion about the data, tools and methods available to assess V&A in the health sector.
4. A general discussion about steps in a vulnerability and adaptation assessments
5. Provides definitions and examples of coping and adaptive capacity in the region

Day 4: Thursday, 17 August

Summary of day 3	9:00 - 9:15
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Chairperson: Mr. Vute Wangwacharakul, CGE

Parallel exercises on sectoral tools/methodologies

Exercise in vulnerability and adaptation assessments	9:15 - 12:30
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The objective of this session is to provide opportunity for participants to conduct exercises on vulnerability and adaptation assessments using the tools/methodologies introduced at the previous session. The participants will be requested to join one of the sectors below and using their national data, will run the models/tools to conduct vulnerability and adaptation assessments. The exercises also include group discussions on the strengths and limitations of tools and the initial outcomes of the assessments.

- a) Coastal zones
- b) Water sector
- c) Agriculture
- d) Health

* The computers will be available in the evening for participants to continue working on exercises and consult with the trainers.

Lunch break	12:30 - 13:30
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Continuation of exercises in vulnerability and adaptation assessments	13:30 - 14:30
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Exercise in developing of adaptation strategies	14:30 - 15:45
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The objective of this session is to assist the participants to translate the V&A assessments into adaptation strategies. This session will introduce the participants to group exercises to identify and develop adaptation strategies based on the sectors that they are working.

Coffee/tea break	15:45 - 16:00
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Developing fundable adaptation projects country case study	16:00 - 16:30
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Presenter: Luis Caceres (Ecuador)

Developing fundable adaptation projects	16:30 - 18:00
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Presenter: Ms. Martha Perdomo, UNDP

The objective of this session is to develop the skills of participants in developing adaptation projects. In particular, this session will identify possible sources of financial and technical assistance in implementing adaptation measures and elements of fundable adaptation project proposals.

Day 5: Friday, 18 August

Exchange of views on technical support needs	9:00 - 9:30
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Chairperson: Ms. June Budhooram, UNFCCC secretariat
Facilitator: UNFCCC secretariat

The secretariat will present the results of the questionnaire on technical support identified by participants in preparing the V&A section of the national communications to facilitate discussions relating to additional training needs and arrangements for networking and cooperation among the participants and with the support of the implementing agencies and other organizations.

Addressing technical support needs for the preparation of national communications	9:30 - 12:30
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Presenters: Mr. Yolando Velasco, UNFCCC secretariat
Ms. Martha Perdomo, NCSP (GEF/UNDP/UNDP)

In response to the outcomes of the exchange of views, a panel of representatives of regional and international institutions will be invited to address the concerns raised by participants at the workshop.

Lunch break	12:30 - 13:30
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Workshop assessment	13:30 - 17:00
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Presenter: Mr. Dominique Revet, UNFCCC secretariat

Closing session	17:00 - 17:30
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Closing remarks

Mr. M. Asaduzzaman, CGE Chairperson
Ms. June Budhooram, UNFCCC secretariat
Government of Paraguay
