



“Review of workshop 1 and overview of aims of workshop 2”

Second workshop
Aberdeen, 18-20 Aug 2009

Sponsored by:

The Leverhulme Trust

Pantanal Research Network: Overview

- ❑ Initial contacts between Aberdeen and the Pantanal in 2007
- ❑ Counterpart: Pantanal Research Centre (CPP), a unit of the United Nations University
- ❑ Agreed on the opportunities for joint research and academic cooperation in many important areas

Objectives of the Pantanal Research Network

- (from the Leverhulme application):
“The main objective of the proposed international network is to enable a group of British, European and Brazilian scientists to explore the potential for modelling, informed data capture and scenario analysis to be used in a participatory way to inform future policy-making in the Pantanal, a highly vulnerable ecosystem of global significance”.

Pantanal Research Network: details

- Timetable: 2008-2011
- Initial focus on water quality modelling (Cuiaba River) and water governance, but potential to expand to other areas and topics
- First moment of the network: presentation at the 8th International Wetlands Conference (INTECOL) in Cuiaba in July, 2008

First Workshop: March 2009, Cuiaba

□ Objectives:

- * Assist collection and systematisation of data on the Cuiabá River Basin (to inform the development of the conceptual model)
- * Promote initial networking between Brazilian, Scottish and Canadian universities & research centres

Structure of the First Workshop (1)

□ Day 1

- Water management in Mato Grosso and in the Pantanal
- Working groups: spatial demands and sector issues
- Decision support system

Structure of the First Workshop (2)

□ Day 2

- Fieldtrip, contact with stakeholders (plateau and floodplain)

□ Day 3

- Exchange of experiences Scotland-Brazil
- Working groups: causal relationships of water management problems
- Future activities, next steps



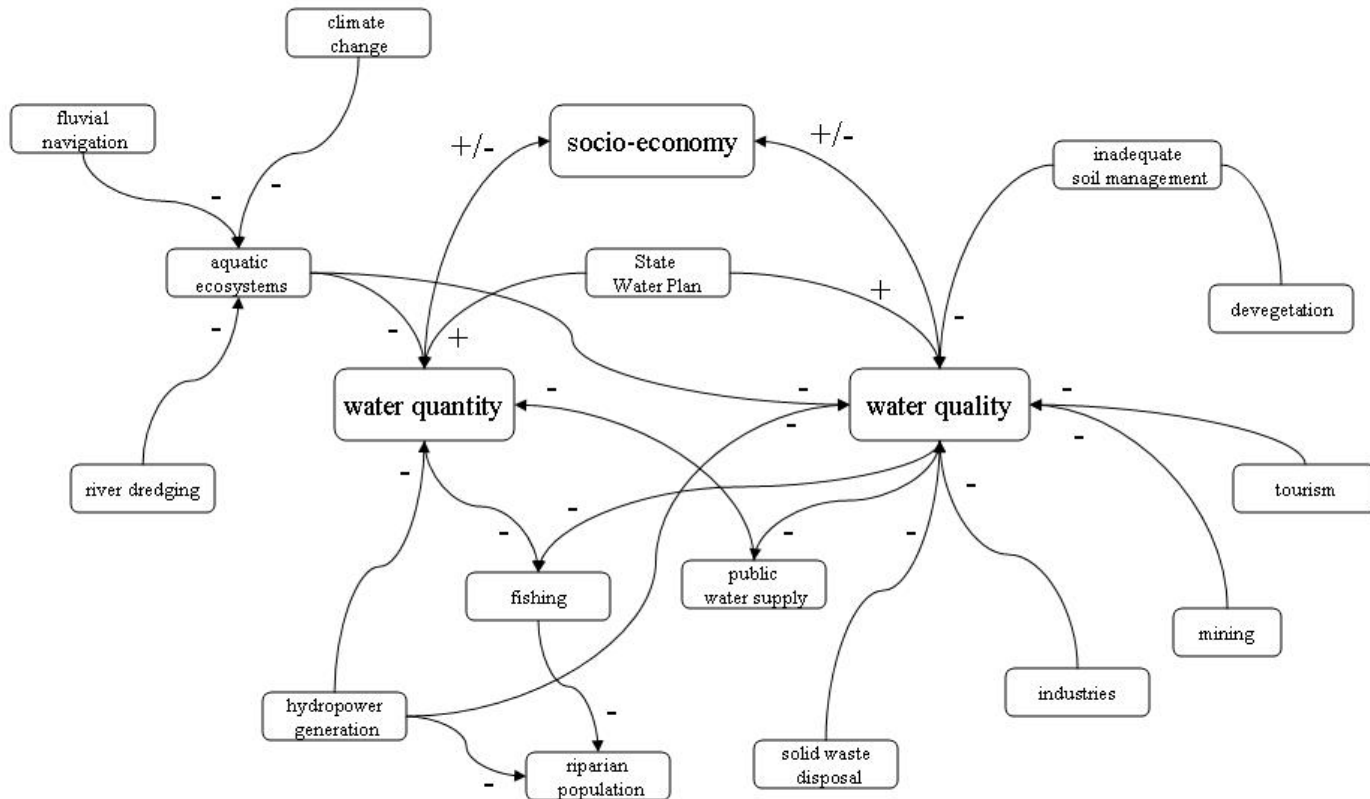
Results of the first workshop (examples)

- Key problems in the Cuiaba catchment
 - Flows
 - Soil and water conservation
 - Data and information
 - Law enforcement
 - Sanitation
 - Low public participation/ conflict of interests
 - Identification of main problems and mitigation
 - Institucional reenforcement
 - Urban planning
 - Lack of environmental education
 - Growing number of hydropower schemes

Results of the first workshop (examples)

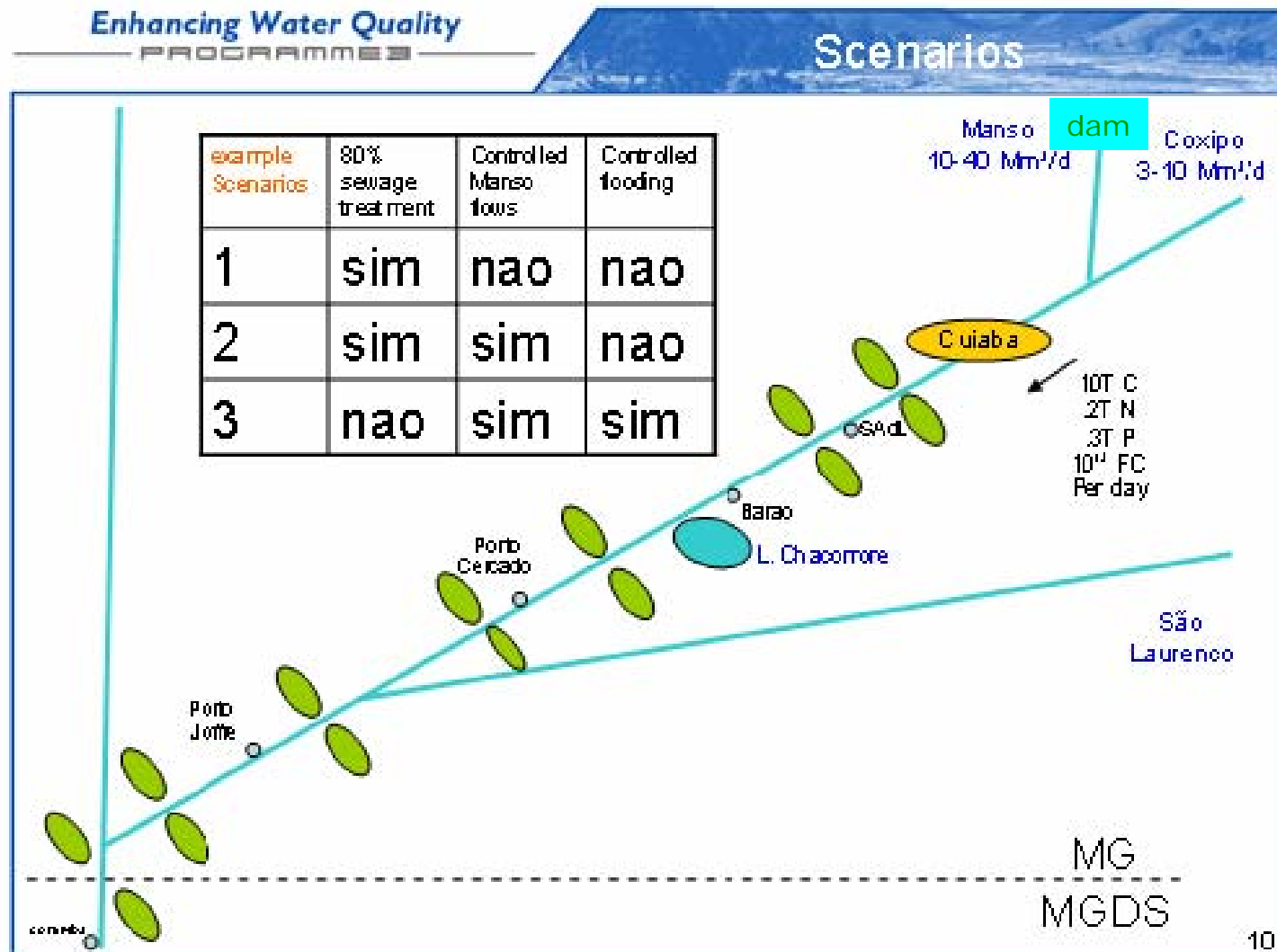
- Key players in the catchment
 - River dwellers
 - Decision-/policy-makers
 - Farmers/land owners, rural workers
 - Energy sector
 - Urban population
 - Ecotourists
 - *Cayman (?)*
 - Scientists
 - Industry
 - Unions
 - NGOs
 - Sport fishfarm
 - Downstream users

Casual loop diagram



Causal Loop Diagram: Overview of water issues in the Cuiaba River Basin (summary of working group exercise)

Conceptual model of Cuiaba River



Areas of interest

- Contact points: Eliana, Prudêncio, Ioris, Andy, Pierre
- Characterisation and data compilation (Peter Zeilhofer ,Carlos Padovani, Gilson , George Wandelson)
- Model conceptualisation and evaluation workshop (Andy, Martyn, Sarah)
- Pollutant loads and concentrations: Real time and event data capture (Debora Calheiros, Carlos Padovani, Sarah Dunn, Marc Stutter)
- Emerging Pollutants (Carolina L, Carolina M.)
- Environmental Economics (Manuel Lago [tbc])
- Ecological flows (Albano)
- Spatial data and flooding (Carlos Padovani, Peter Zeilhofer, SEMA)
- Ecological trends and trade-offs (Edna, Juliana, Selma)
- Adaptation to Climate change (Normand Brunet, Moacir)
- Institutional arrangements and participation (Leandro, Leo, Marcio, Ioris)







Second Workshop: Aug. 2009, Abdn

□ Objectives:

Summarise the ecological, economic and human health impacts of water pollution from diffuse and urban sources in the Cuiaba and Miranda River Basins.

Carry out a model evaluation exercise to appraise suitability of modelling approaches for application to the Cuiaba catchment

Second Workshop: Aug. 2009, Abdn

□ Objectives (cont.):

Further develop the conceptual model and begin identification of scenario themes

Progress data collation and identify gaps

Identify sources of further finance and prepare concept notes and proposals to submit to these sources.

Structure of the Second Workshop

- Day 1
 - Biogeochemistry of catchments
 - Working groups: hydrological questions of the Cuaiba River
- Day 2
 - Socioeconomy and governance
 - Working groups: governance of the Cuaiba River
- Day 3
 - Future research, next steps (core group)
- Day 4
 - Fieldtrip

Funding Ideas

- EU Erasmus Mundus – student exchange
- LACEEP –Ecological Economics. Prelim 2 page proposal: Closing Date 15 Sept. Six monthly calls.
<http://www.laceep.org/>
- UK DEFRA-Darwin Biodiversity projects aimed at meeting Scoping: Feb 2010, full proposal Aug 2010
- UK Natural Environment Research Council- biophysical projects (University lead)