

**Marine Resource
Governance in the
Eastern Caribbean
(MarGov Project)**

**CERMES MarGov Project Document
4**



**Report of the CANARI workshop on
*Introduction to network analysis in
natural resource governance,*
Trinidad and Tobago, 20 Aug 2007**



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Notes

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1. Introductions, context and expectations

In keeping with the workshop outline (Appendix 1), Sarah McIntosh of CANARI welcomed participants who introduced themselves (Appendix 2). Collaborators from other agencies were especially welcomed. She thanked the Cropper Foundation for providing the meeting space.

Patrick McConney of CERMES reviewed the workshop outline for context, adding that the workshop was particularly well timed since only a few days ago CANARI was approved as the first recipient of a small grant under the CERMES MarGov project. All congratulated CANARI, noting that the graduate student identified to undertake most of the research on analysing the institutional framework and capacity for fisheries governance at the national level and in selected regions of Trinidad and Tobago was present.

Another fortunate coincidence was that persons to be involved in a recently awarded contract to conduct a needs and capacity assessment of the fishing industry in Trinidad and Tobago were also present and they could coordinate their investigation with that of CANARI for mutual benefit.

CANARI participants expected the workshop to provide ways for enhancing tools such as stakeholder analysis that the organisation already used. A specific aim was to examine the application of network analysis to investigating community level vulnerability and coping strategies in the context of climate change. All wished to assess the practical uses of network analysis in comparison to other methods.

2. Network concepts and analytical methods

Kemraj Parsram led the group through a slide presentation on network concepts and methods (not distributed electronically or appended to this report due to copyright constraints). There were frequent pauses for discussion, clarification and an exercise. The latter was a 'small world' demonstration of how the ego networks of two participants were connected through people that both knew. Participants found the presentation of preliminary results from a fisheries science network analysis that Mr. Parsram was undertaking to be particularly useful since they knew the organisations involved and could comment on the patterns of relationships. The use of UCINET software was also demonstrated. Many interventions sought to clarify the several specialised terms used in network analysis to describe structural properties. Also addressed was how network structure relates to function, and the importance of knowing content.

3. Case studies and practical applications

After lunch Patrick McConney and Kemraj Parsram demonstrated a simple network matrix for mapping the relationships of workshop participants using the form in Appendix 3 in an exercise. Each participant completed his or her row. The entire matrix was then filled out on a flip chart and discussed. Participants gained better appreciation of asymmetric relationships, network density, reachability and centrality among other concepts.

Discussion turned to the application of network analysis to projects in which the participants are involved, including the CANARI fisheries governance analysis under the MarGov small grant. It was thought that network analysis could enhance the method of institutional mapping currently used by CANARI.

Participants compared network analysis to conventional surveys that are focused mainly on attributes and debated their pros and cons. It was agreed that a multi-method approach to research is often preferable.

4. Evaluation and close

Participants said that the workshop was very helpful. They now needed more examples of how network analysis was used in practice and examples of the instruments used to collect data. CANARI may have opportunities to apply the method in several other projects. Information on the software was requested.

Patrick McConney and Sarah McIntosh thanked all for coming and noted items that required follow-up.

Appendix 1. Outline



Marine Resource Governance in the Eastern Caribbean (MarGov Project)

INTRODUCTION TO NETWORK ANALYSIS IN NATURAL RESOURCE GOVERNANCE, CANARI MEETING ROOM, MON. 20 AUG. 2007

Aim: To introduce the concepts and methods of network analysis, in the context of practical application to natural resource governance, to selected persons associated with CANARI. A secondary purpose is to better prepare CANARI for investigations that use network analysis.

Participants: Partners, senior staff, collaborating organisation leaders and interested others.

Objectives – at the end of the day participants should be able to:

- Describe many of the specialised concepts and terms associated with network analysis
- Explain how methods of network analysis can be applied, and in particular to governance
- Identify areas in which network analysis can be used in ongoing or proposed investigation

Content and format:

- 1000 ... Introductions, context and expectations
- 1030 ... Network concepts and analytical methods
- 1230 ... Lunch
- 1330 ... Case studies and practical applications
- 1630 ... Close (with a break and wrap-up before)

Method of instruction: Presentations, interactive discussion, individual and group exercises

Teaching aids: PowerPoint, flip chart, references, software, handouts and oral information

Resource persons: Patrick McConney and Kemraj Parsram, CERMES, UWI Cave Hill Campus

Resource materials:

- MarGov Project website http://www.cavehill.uwi.edu/cermes/margov_profile.html
- Download and read an introduction to network analysis methods at <http://faculty.ucr.edu/~hanneman/nettext/index.html>
- Information on network analysis software and other documents at <http://www.analytictech.com/borgatti/publications.htm>
- Other resources will be provided at the workshop, or prior to it by email

Method of evaluation: Informal evaluation primarily through participation and lessons learned

Appendix 2. Participants

Caribbean Natural Resources Institute (CANARI)

Alicia Aquing, Technical Officer, alicia@canari.org
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Appendix 3. Sociomatrix

Put your first name on the top of this form here _____

In this exercise first fill out only the ROW that has your name in the left hand column

For each of the items below put the corresponding NUMBER in the cell of the person that you have the particular relationship (e.g. information exchange) being described as the tie

Note ... the period of reference is 1 January to 19 August 2007. Not earlier and not today.

1 = I have been to a workshop or professional meeting where this person has also participated

2 = I have given or received technical or professional advice or information with this person

3 = I have been an author of a document on which this person is also listed as a co-author

4 = I have been to lunch, dinner, for drinks or otherwise had a social occasion with this person

Participants	Sarah	Nicole	Alicia	Simone L	Leslie	Simone D	Rosemarie	Zakiya	Judy
Sarah	-----								
Nicole		-----							
Alicia			-----						
Simone L				-----					
Leslie					-----				
Simone D						-----			
Rosemarie							-----		
Zakiya								-----	
Judy									-----