SOCIOECONOMIC ASPECTS BREAK-OUT GROUP

Participants (name, email, institution)

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Maxine Monsanto	doe seo ago Had gov pz	Department of Environet	
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CHRISTOPHER LOX	ccox pechi.org,1C	Caribbean Env. Health In	thrula
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Overall Points Related to Completing the Table and the Socioeconomic Aspects WCR Assessment

Most of the chapters assigned to the socio economic aspects of the report were deemed to be deficient in well known socio economic assessments. Much of the information cited seemed to be in grey literature. There seem to be few regional assessments. Most socioeconomic assessments are national or sub-national. The Gulf of Mexico LME documents were considered an overall important source for many of the topics. A Dropbox folder was set-up and has numerous reports and other documents as noted. Co-chair Lorna Inniss' colleague, Kareem Sabir (KSabir@coastal.gov.bb), is responsible for the Dropbox and can be reached for details and access.

Topics (e.g. Scientific understanding of ecosystem services) and Sub-Topics (e.g. Shoreline protection) to Include in the WCR Assessment	Relevant Studies, Documents, Reports and Other Sources of Information (refer to the Inventory list)	Priority Individuals & Institutions to Engage (email; who suggested)	Information Gaps	Comments
Scientific understanding of ecosystem services (Chapter 3)				
Shoreline protection	IDB reference reports (www.iadb.org); DELCAN; HALCROW References (1990s – 2000s); Baird and Ass. Barbados long history of work. (Barbados focused; in Dropbox) CZMU Website and Hardcopies; Dr. Lorna Inniss (contact) Lauretta B, WRI: UNEP 2008,In the Frontline: shoreline protection and other ecosystem services. (global study; in Dropbox) http://www.unep.org/pdf/infrontline 06.pdf Lauretta B, WRI: All of WRI's shoreline protection assessments are found under the Coastal Capital project - http://www.wri.org/project/valuation-caribbean-reefs I attach the results for Belize and Tobago and St. Lucia. (in Dropbox)	Minu Parahoe, Suriname: glenn redjopawiro - secretariaat@rgb.gov.sr	Paucity of socio- economic data eg. Impact on Insurance premiums etc with respect to Barbados Insufficient info on shoreline protection services provided by reefs under varying levels of health Not for the entire coastal zone	Much of the info is hardcopy and not publicly available (need permission)
	Lauretta B, WRI: Also from the Coastal Capital project - http://www.wri.org/project/valuation-caribbean-reefs (Jamaica focused; in Dropbox) John Bothwell, Cayman Islands: http://www.doe.ky/about/boards-committees/brac/-Cayman Islands shoreline management , including consultant			

	resource		
	Maxine Monsanto, Belize:		
	http://www.un.org/esa/dsd/resources/res_pdfs/ga-		
	66/inputs/belize.pdf		
 Carbon storage 	John Bothwell, Cayman Islands: 5Cs - climate change outreach	CCCCC Belize (www.caribbeanclimate.bz)	Need for timely
	programmes, especially case studies, consultants and how-		response to data
	to's - http://www.caribbeanclimate.bz/ - communication/PR		requests
	and any climate-change issues		
	Turtles in the Caribbean Overseas Territories (TCOT),		
	http://www.seaturtle.org/mtrg/projects/tcot/ - social surveys		
	and socio-biological technical to public reporting TCOT		
	Publicity,		
	http://www.seaturtle.org/mtrg/projects/tcot/finalreport/sect		
	ion12.pdf - communicating information to the rest of society		
	and getting them on board with the goals		
	UK Joint Nature Conservation Committee (JNCC) - economic		
	assessments -		
	http://jncc.defra.gov.uk/default.aspx?page=4136 - Scientific		
	Understanding of Ecosystem Services, i.e., how to		
	communicate what is known in terms civil society will		
	understand		
	Gulf of Mexico Large Marine Ecosystems: resources at risk		
	from CC (Chapter 8; in dropbox)		
	Blue Carbon Report – socio economics re financing		
	mechanisms Available from www. unep.org		
Natural products (i.e.	Paula Sierra, INVEMAR, Colombia (ornamental fish and others	Dr. Javier Gomez	
ornamental fish,	in Spanish):	(javier.gomez@invemar.org.co) from	
shells)	http://www.invemar.org.co/noticias.jsp?id=4559&idcat=106	COLOMBIA and he works at INVEMAR	

	The "socioeconomic and socioecological analysis of Cienaga Grande de Santa Marta - COLOMBIA" is an important study in socioeconomic issues in the Caribbean coast of Colombia. Dr. Sandra Vilardy (sandra.vilardy@uam.es, Universidad del Magdalena en Colombia. Worldbank publication: Little green data book CITES – list of some products traded	Paula.sierra@invemar.org.co		
	and an admit products traded			
	(John Bothwell, Cayman Islands:			
	Gulf & Caribbean Fisheries Institute -			
	http://www.gcfi.org/index.php			
	http://johnspace2011.wordpress.com/			
	Mandala and madelli and the later and the later to the later and the lat	Debay A Marriago		
Jobs & livelihoods	Worldbank publication: Little green data book	Peter A Murray		
	"Gulf of Mexico at a Glance" (2011) (in dropbox)	Paula Sierra, INVEMAR, COLOMBIA (paula.sierra@invemar.org.co)		
	Paula Sierra, INVEMAR, Colombia – Coastal vulnerability to			
	sea level rise; an integrated coastal zone study (In the table of			
	contents the step 2,3,4 and 5 are very relevant for			
	socioeconomic topics).			
	OPAAL – OECS – livelihoods and protected areas			
	Caribbean Tourism – CTO – a series of publications (see below)			
Aesthetic, cultural, religious	John Bothwell, Cayman:	M. Witter	Unknown, needs	
and spiritual ecosystem	TCOT (below) also makes some address to 'cultural use of		more attention.	
services derived from the	marine resources', i.e., turtles.	UNESCO – world heritage sites		
sea (Chapter 8)				
Human interactions		Belize: Joseph Palacio		

with the oceans on			
aesthetic, cultural,			
religious and spiritual			
levels, including burials			
at sea, and ways in			
which these			
interactions may be			
affected by other			
changes.			
Shipping (Chapter 17)	Maxine Monsanto, Belize: Gulf of Honduras Ports, Shipping,		
 Economic significance 	etc.: http://www.proyectogolfodehonduras.com in Spanish (
of shipping and trend	the Spanish version has more of the documents);		
over the next decade	www.gulfofhondurasproject.com in English		
Harmful impacts from			
pollution, acoustics,	Caribbean Shipping Association		
disasters, transport of			
invasive species and	Journal: Caribbean Maritime		
hazardous, noxious			
substances	Ballest water/Harmful algae blooms UNESCO/IOC		
Shipping-related			
industries and	John Bothwell, Cayman Islands: invasive species - Giant		
commerce	African Snail (no references, just mentioning in case the		
	biodiversity group are totally marine focused)		
	Caribbean Invasive Alien Species Network		
	(http://www.ciasnet.org/)		
	Alvarez Porfir (in dropbox):		
	CMSP in Mexico, invasive species:		
	Check Chapter in page 113 about Socioeconomic analysis		
	Transboundary Diagnostic Analysis Gulf of Mexico LME, CH 3		
	Impact of Fishing on Biodiversity GoM LME		
	Transboundary Diagnostic Analysis Gulf of Mexico LME, Ch 5		
	Impact of Invasive Species on Biodiversity GoM LME		
	Trnasboundary Diagnostic Analysis Gulf of Mexico LME, Ch, 4		

	Governance in the GoM LME Mexico's National Strategy for Invasive Species North America (Canada US MExico) Commission for Environmental Cooperation (CEC) NAFTA, Trinational Guidelines Invasive Species			
Ports (Chapter 18) Economic significance of ports and trend over	American Association Ports www.aapa-ports.org Culf of Maying LME degument (in draphou)	Caribbean Cruise ship Association PLIPDECO Trinidad	Look at merchant seamen	Cruise ship association driving port construction
 the next decade Ports development and maintenance and socioeconomic implications 	Gulf of Mexico LME document (in dropbox) US NPS USVI small boat cruising International Maritime Org. – global integrated shipping info.	PLIPDECO ITIIIIdad		
Submarine cables and pipelines (Chapter 19) • Economic magnitude and location of cables and pipelines and socioeconomic implications • Pollution	Worldbank – Caribbean regional electricity supply options (2011, sections on interconnectivity) Edgar Cabrera (WMO): International Telecommunications Union (ITU) EIAs may be a useful source	World Bank International telecommunication union (ITU) Study group on environment Cristina Sueti – cristina.bueti@itu.int		There might be documents with different titles that have good information.
Coastal, riverine and atmospheric inputs from land (Chapter 20) Source of pollution, including municipal wastes, industrial wastes, and agricultural runoff Eutrophication Desalinization	Saharan dust - Barbados monitors this dust – human health and coral health impacts EPD Barbados beach water quality 2004 Alvarez Porfir: Gulf of Mexico LME (Chapter 8) in Dropbox Paula Sierra, INVEMAR, Colombia: Global International Water Assessment for Caribbean in Dropbox GEF Ag pesticides REPCAR	Anthony Headley, Deputy Director, Environmental Protection Department (aheadley@epd.gov.bb) Paula.Sierra@invemar.org.co Luisa.espinosa@invemar.org.co (Contact for REPCAR)	Gaps may exist with respect to socioeconomic details	NB.: WB Working on Water Quality issues through Global Partnership for Oceans Prg. More into to be sent from Josteinygare (World Bank)

		
Maxine Monsanto, Belize: National Action Plan for the Control of Land Based Sources of Land Based Sources of Marine Pollution in Belize (2008) - issue papers on Sediment Loading, Nutrients, Physical Alteration/Destruction of Habitats, and Solid Waste – sections related to the marine environment.		
Jostein, Worldbank (and/or Chris Cox): (limited estimations of socio-economic impact here, but that could be mentioned in the gap part; Chris Cox is the expert on the UNEP/CEP/CIMAB literature) (i) Original 1994 report (# 33): http://www.cep.unep.org/publications-and-resources/technical-reports/tr33en.pdf		
(ii) Updated 2010 report (updated # 33): http://www.cep.unep.org/meetings-events/14th-igm/draft-of-updated-cep-technical-report-no-33-eng.pdf		
(iii) Updated 2012 report (# 52) http://www.cep.unep.org/publications-and- resources/technical-reports/Update%20TR%2033%20-Ingles- %20VERSION%20FINAL.pdf		
Christopher Cox: Caribbean Sea Ecosystem Assessment (CARSEA). A contribution to the Millennium Ecosystem Assessment prepared by the Caribbean Sea Ecosystem Assessment Team	Christopher Cox:	
Making Mainstreaming Work. An Analytical Framework, Guidelines and Checklist for the Mainstreaming of Marine	Co-ordinating Lead Authors JOHN B. R. AGARD AND ANGELA CROPPER	
and Coastal Issues into National. Planning and Budgetary Processes. John Soussan (SEI)	UNEP CEP UNEP/GPA Coordination Office	
 110cc33c3. 301111 30d33d11 (3E1)	ONET / GI A COOTAINATION OTNEC	

Wastewater Management at Hotels and Resorts in the Caribbean

Guidelines on Municipal Wastewater Management

Sick Water? The central role of wastewater management in sustainable development. A Rapid Response Assessment.

Bathing Water Quality Monitoring Plan for Barbados

Marine Pollution Act Proposed Discharge Standards

Draft National Plan of Action for the Control of Land-Based Sources of Marine Pollution in Belize

Sewage Effluent Standards. (Extracted from the Jamaican National Sewage Effluent Standards, 1996). A Strategic Approach to Marine Litter Reduction and Control in the Caribbean.

Review of Policy, Laws & Institutional Structures For the GEF "Integrating Watershed & Coastal Areas Management in Caribbean Small Island Developing States (GEF-IWCAM)"Project

The Netherlands

Clearing House: http://www.gpa.unep.org

Visiting address: Kortenaerkade 1, The Hague, The

Netherlands, UNEP/IETC

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Sanitary Engineer, PAHO/WHO

REGIONAL CONFERENCE ON ENVIRONMENTAL HEALTH AND

SUSTAINABLE TOURISM DEVELOPMENT

Nassau, Bahamas 8-11 November 1993

UNEP/GPA, The Global Programme of Action for the Protection of the Marine Environment from Land-based Activities, GPA Coordination

Office, P.O. Box 16227 2500 BE The Hague

	Web: http://uneo.or.jp/ietc	Christopher Corbin1 and Seba Sheavly	
	UNESCO-IHE, Institute for Water Education	E mail: cjc.@cep.unep.org	
	PO Box 3015, 2601 DA Delft		
	The Netherlands	Environmental Advisors, Inc	
	Web: http://www.unesco-ihe.org	www.iwcam.org	
	Corcoran, E., C. Nellemann, E. Baker, R. Bos, D. Osborn,		
	H. Savelli (eds). 2010 United Nations Environment		
	Programme, UN-HABITAT, GRID-Arendal. www.grida.no		
	Produced for: Environmental Engineering Division and Coastal		
	Zone Management Unit, Ministry of Housing, Lands and the		
	Environment, Government of Barbados.		
	Prepared by: In association with: University of the West Indies		
	October 2004 February 2008 Department of Environment		
	Ministry of Natural Resources		
	and the Environment		
Offshore hydrocarbon	REMPEITC - Technical Node for Oil spills Protocol	OLADE (www.olade.org)	Complaints from
industries (Chapter 21)	NEWITETTE TECHNICAL NOGE FOR OIL SPINS TTOLOGO	OLADE (WWW.olade.org)	fishermen re the impact
 Scale and significance 	www.isa.org.jm/ - Info on hydrocarbon and mineral	jwilliams@caricom.org - Joseph Williams,	of seismic activities on
and socioeconomic		Manager Energy Desk CARICOM	their livelihoods
	resources	Widilager Effergy Desk CANICOW	their inventioods
implications	Oil Companies DUD Billiton DD DEDCOL	NIMOS Valanda Rahb whahb@nimass.org	Conversaly are there
Impacts from	Oil Companies – BHP Billiton, BP, REPSOL	NIMOS- Yolanda Babb- ybabb@nimoss.org	Conversely are there benefits to fishermen
exploration		Green Heritage Fund Suriname- Monique Pool-	
 Disasters 		info@greenfundsuriname.org (suggested by	from increased catches
		Minu Parahoe, Suriname)	around rigs?
		International association of oil and gas	
		producers (OGP) / various committees	
		www.ogp.org.uk (suggested by Edgar Cabrera,	
		WMO)	
Other marine-based energy	CEIS – Caribbean Energy Information Systems	Mona White	Areas of opportunity
industries (Chapter 22)			not yet significantly
 Scale of wind, wave, 		CCCCC Contact : Al Binger	exploited/explored in
ocean thermal and tidal		(yengar@hotmail.com)	the Caribbean.

power generation		
 Environmental benefits 		Cayman Institute,
and impacts		http://caymaninstitute.org.ky/ (suggested by
Expected economic		John Bothwell, Cayman Islands)
performance		
Significant		
socioeconomic aspects		
Offshore mining industries	www.isa.org.jm/ - Info on hydrocarbon and mineral	Secretary General, International Seabed
(Chapter 23)	resources	Authority
 Sand and gravel mining 		
and socioeconomic	www.irf.org (Island Resources Foundation)	Michelle Bond, Librarian
implications	(issued research	
Status of non	US Sea Grant Project, University of Puerto Rico (Mayaguez)	Gillian Cambers
sand/gravel mining		
activities	Leonard Nurse: Lettsome, B, et al. "Sand mining in the British	
detivities	Virgin Islands" - www.nsgl.gso.uri.edu/pru/pruw96001_pt-	
	b2.pdf	
Solid waste disposal	Planning of an integrated Solid Waste Management System in	Dr. L. Zuilen, University of Surname
(Chapter 24)	Suriname	(l.zuilen@uvs.edu)
 Types and amounts 		
dumped into the sea	Lauretta Burke/WRI: The Ocean Conservancy annual beach	Maxine Monsanto:
and trend over the next	cleanup - http://www.oceanconservancy.org/our-	sw.director@mnrei.gov.bz
decade	work/marine-debris/2012-data-release-behind-the-	for Mr. Gilroy Lewis, P. Engr. Director
accade	scenes.html	
	Maxine Monsanto, Belize:	
	http://www.doe.gov.bz/documents/EIA/Solid%20Waste/C11	
	%20SW%20Rev%20EIA%20Appendices%20K.pdf	
Marine Debris (Chapter 25)	MoBay Marine Park Studies	
• Causes	·	
 Approaches to 	Gulf and Caribbean Fisheries Institute (website: marine	
combating marine	debris survey)	
debris	<i>''</i>	
	Project Global (Duke University)	
L.	, , , , , , , , , , , , , , , , , , , ,	

Land/sea physical	Fisheries SOCMON Project (CERMES) in Dominica - available	Maria Pena maria.pena@cavehill.uwi.edu
interaction (Chapter 26)	from CERMES website (At Cavehill)	
 Magnitude and location 		Nicole Leotaud (Nicole@canari.org), Exec
of land reclamations	CANARI – <u>www.canari.org</u>	Director
and habitat		
modifications	IWCAM Project – <u>www.iwcam.org</u>	Christopher Cox (<u>ccox@cehi.org.lc</u>) – contact
 Erosion of land by the 		for IWCAM Project
sea and socioeconomic	Information on Haiti available from www.foprobim.org	
implications		Paula.Sierra@invemar.org.co
 Sedimentation changes 	Reclamation studies on the Bridgetown ports	
and trend over the next		Chris Corbin (cjc@cep.unep.org)
decade	Invemar reports 2009-2011 on Erosion (documents in	
	Dropbox)	Contact for Coastal Capital: lauretta@wri.org
	, ,	
	Marine Geology Department, UWI Mona – data on erosion in	For erosion in Negril: Ted Robinson of UWI-
	Negril	Mona is the contact.
	CARIBSAVE Documents	
	UNEP CEP Website (Contact person Chris Corbin)	
	,	
	John Bothwell, Cayman Islands: US State Department, White	
	Water 2 Blue Water Initiative, now defunct but information	
	collected may still be available, http://2001-	
	2009.state.gov/g/oes/rls/fs/2003/18969.htm	
	2000,000,000,000,000,000,000,000,000	
	Alvarez Porfir (in dropbox): LMEs and climate change,	
	chapter 8, Gulf of Mexico LME resources at risk from climate	
	change	
	- Change	
	Lauretta Burke, WRI: Beach erosion in Negril; and the cost of	
	beach erosion in the DR and Jamaica.	
Tourism and recreation	Caribbean Tourism Organisation Travel and Tourism	Maxine Monsanto, Belize:
	Economic Impact	Institution for contact on tourism and
(Chapter 27)	Economic impact	institution for contact on courism and

	T	The state of the Advisor of Table 19 19 19	Τ	T
 Magnitude and 		recreation is the Ministry of Tourism/Belize		
location, including	Colombia – valuation of tourism sites vs mangrove areas	Tourism Board		
cruise ships, of tourism	(INVEMAR Studies			
and ecosystems and		Gail Henry (CTO) – gnhenry@gmail.com		
socioeconomic	World Bank Reports on use of natural resources for Tourism			
implications		Paula.Sierra@invemar.org.co		
Pollution	Green Globe and Blue Flag Programmes			
Habitat disturbance		Loretto Duffy-Mayers (CHTA – Caribbean Hotel		
	www.iwcam.org (Bahamas study)	and Tourism Association) re- blue flag and		
		green globe		
	UNEP Study (2011)	S. Com Brown		
	oner study (2011)	Marelvis.londono@invemar.org.co		
	Recreational Value of Coral Reefs	Watervis.ionaono@invernar.org.co		
	Recreational value of coral neers	kreytar@wri.org or Lauretta@wri.org		
	Maxine Monsanto, Belize:	<u>kreytar@wri.org</u> or <u>Lauretta@wri.org</u>		
	http://www.academia.edu/776291/Cruise_ship_tourism_in_			
	Belize The implications of developing cruise ship tourism			
	in an ecotourism destination			
	https://www.centralbank.org.bz/docs/rsh_4.5_conferences-			
	working-papers/direct-economic-impact-of-cruise-			
	tourism.pdf?sfvrsn=6			
	Maxine Monsanto, Belize (Social Viability of Cruise Ships in			
	South Belize):			
	http://www.placencia.com/BELIZE%20CRUISE%20VIABILITY%			
	20REPORT 2011.pdf			
	Lauretta Burke, WRI (documents in the Dropbox):			
	Coastal capital studies value coral-reef associated tourism.			
	Contact: Lauretta@wri.org			
	WRI has GIS data set on cruise ship ports and a rough			
	indicator of frequency and size of visitation (port of calls).			
	These data are from 2009 – 2010.			
	111000 0000 010 110111 2005 20101			
		1	<u> </u>	<u> </u>

	John Bothwell, Cayman Islands: Tourism - 5Cs, website below,		
	tourism vulnerability assessments on various countries, e.g.,		
	(for Cayman) http://www.doe.ky/sustainability/ (bottom of		
	the page, in 4 parts).		
	Tourism - Cayman Islands Tourism Management Plan(s);		
	email foi@caymanislands.ky; also EIA, etc., Port Scoping		
	Documents. Note: This is a 'Freedom of Information' email so		
	engage in a conversation otherwise the request will fall in to		
	an FOI Process which could take longer than simply asking, if		
	they are amenable to providing the information. Obviously		
	very country specific so may not be worth pursuing if there		
	are broader based information sources available.		
Desalinization (Chapter 28)	<u>www.caribda.com</u> (Caribbean Desalinisation Organisation	Manuel Pereira (<u>mpereira@aqualectra.com</u>)	
 Magnitude and location of desalinization 	Caribbean Water and Wastewater Assn (www.cwwa.net)	Cyprian Cibean (weegibsen Quees com bs)	
activities and	Caribbean water and wastewater Assii (www.cwwa.net)	Cyprian Gibson (wccgibson@wsc.com.bs) - Contact for desal in the Bahamas	
socioeconomic	National Studies for Aruba, Antigua, Bahamas, Cayman	Contact for desail in the Bullanius	
implications	Islands and Barbados		
	Socio econ impacts of desal plants based on discharge into		
	the marine zone – check for references		
	John Bothwell, Cayman Islands: http://www.doe.ky/wp-		
	content/uploads/2010/03/Cayman-Islands-Climate-Change-		
	Policy-Final-Draft-30-Sep-2011.pdf - Cayman Islands Climate		
	Change Policy refers to potential desalination impacts from Climate Change. Also lots of other Climate Change impacts		
	(potential).		
	(potential).		
	Leonard Nurse: Gunzbourg, Jde and T. Froment, 1987.		
	Construction of a solar desalination plant (40 cum/day) for a		
	French Caribbean island. Desalination, 67, 53-58.		

	Bruno-Vega and K.S. Thomas, 1994. The Virgin Islands desalination experience. Desalination (1-3), 443-450.		
Use of marine genetic resources (Chapter 29) • Magnitude and location of marine scientific research and exploitation and socioeconomic aspects	Convention on Biodiversity may have information ??? www.Stateofthecoast. Noaa.gov – summary of the medical applications one may derive from coral reef materials UNEP CEP under SPAW Protocol	Contact re SPAW Protocol: Alessandra Vanzella-khouri <u>AVK@cep.unep.org</u>	New area of research – bioprospecting taking place in the Caribbean but not clear on availability of data
Marine scientific research (Chapter 30) Topic and location of marine scientific research and socioeconomic implications	SOCMON (Socioeconomic Monitoring for Coastal Management) English and Spanish speaking Caribbean. Information available from www.socmon.org Valuation of the Montego Bay Marine Park UNEP CEP under SPAW Protocol CLME website www.eclac.org GEF Project – Marine Protected Areas Subsystem which looks at financial sustainability of MPAs and also Valuation of new MPAs Caribbean Regional Fisheries Mechanism and OSPESCA Caribbean Fisheries Management Council Gulfbase – data portal Hart Research Institute	Maria.pena@cavehill.uwi.edu Contact re SPAW Protocol: Alessandra Vanzella-khouri AVK@cep.unep.org Pilar.Lozano@invemar.org.co (Project Coordinator) Robert Leeworthy, NOAA Megan Jungwiwattanaporn mvj3@duke.edu	
	IOCaraibe		

Carter, David (NOAA coral reef valuation database): http://coastalsocioeconomics.noaa.gov/core/reefs/reeflit1.ht <u>ml</u> Lauretta Burke, WRI: The Marine Ecosystem Services Partnership (MESP) has a database of economic valuation studies (@Duke Uni). http://nicholasinstitute.duke.edu/oceans/mesp John Bothwell, Cayman Islands: CamPAM (Caribbean Protected Areas Managers forum) http://campam.gcfi.org/campam.php. Also a good source of experts, if they haven't already been approached. Also, GCFI (below) is another good source for this sort of thing. CITES significant trade review for conchs, e.g., http://www.cites.org/eng/com/ac/19/E19-08-3.pdf. Also, http://procs.gcfi.org/pdf/gcfi_57-54.pdf and possibly, ftp://ftp.fao.org/docrep/fao/010/a1121e/a1121e.pdf.

Overall Assessment Capacity Needs Related to Socioeconomic Aspects and How to Address Them

The groups discussed several key issues with regards to capacity building in the region:

- Both human and institutional capacity are weak in the region. In that context the group suggested that in seeking to strengthen the human and institutional capacity there is usually a trade-off and therefore a need to have informed decision making in that prioritisation process.
- Networks national and regional offer solutions to build capacity. Another way to strengthen capacity is to network regional projects and programmes.
- There is a lack of political capacity e.g. translating interdisciplinary research into policy. There is a need to improve the link between societally driven research, evidence from science and other sources, into producing actions that improve well being.
- The social sciences could help articulate research questions based on what the political priorities may be (which could help close the gap between the policy making and implementation).
- Careful attention needs to be paid to communication strategies that are appropriate to the knowledge demands of varying publics which range from the political to civil society organisations and communities.

Issues for WOA to Address

The group had an engaging discussion regarding the WOA, which raised the following recommendations and questions:

- What might be an appropriate node for sharing information on the Caribbean in the context of the WOA? Perhaps the Cartagena Convention/CEP?
- Socio economic assessments are often site-specific. Therefore, there is a need to build a regional picture based on scaling up (where possible).
- What is the strategy going forward with respect to communication, information dissemination
 etc.? There should be an opportunity for public engagement as early in the process as feasible
 with connections to the political processes so that the output answers specific societal
 questions. The analyzes need to be upstream, demand-driven (country driven) to ensure there
 is ownership/buy-in of outputs and follow-up (the Sustainability dimension)
- What is the value added to be derived from the WOA process vs other meta assessments and processes past and present (and future). From a socio-economic perspective there needs to be a sense of the total Economic value e.g. the cost of degradation from pollution but also capturing use and non-use values from the ocean. In addition, the WOA should capture cross cutting issues, including: climate change issues (ocean acidification, SST, flooding etc.); gender; poor and vulnerable communities; and, governance specifically as an integrating factor across the chapters.