

Annex D – Results of the Break out Groups

Group I: Biophysical Aspects

Oceans' roles in hydrological cycle (Chapter 4)	Relevant Studies, Documents, Reports and Other Sources of Information (refer to the Inventory list) <i>Task: identify relevant sources of information, including but not limited to the Inventory list</i>	Key Individuals & Institutions to Engage (email & who suggested) <i>Task: list key individuals and institutions, including participants, who are important to engage in writing this topic (note: the authors will contact them regarding becoming part of the Global Pool of Experts and then contributors)</i>	Information Gaps <i>Task: identify sub-topics lacking information</i>	Comments <i>Task: include key points, particularly related to the substance of the topics and sub-topics</i>
Oceans' roles in hydrological cycle (Chapter 4)				
Freshwater fluxes into the ocean, sea ice, sea level	<p>Transboundary diagnostic analysis from the LMEs</p> <p>ODIN Africa databases</p> <p>Docs and GIS data on Niger and other lg. rivers: Milliman – freshwater sediment loads global report</p> <p>Biney C. A. (1995). Environmental Baseline Studies-Limnology of Sakumo II Lagoon. Ghana Coastal Wetlands Management Project. 34 pp.</p> <p>1994 Loicz Budget Workshop in Lagos, Nigeria</p> <p>LOICZ/JGOFs/IOC international Workshop on Continental Shelf Fluxes, Gulf of Guinea, Lagos, Nigeria, October 14th – 19th 1996.</p> <p>UNESCO Sea Level Report, 2007, Angora Aman, www.sealevelstation.net</p>	<p>Natl. Inst. For oceanography and Marine Research, Lagos: Prof. Larry Awosika, Dr. Regina Folorunso, Dr. Adesina Adegbe</p> <p>CGILE: Prof. Adote Blim Blivi</p> <p>Dr. E A Ajao: gboyegaajao@yahoo.com</p> <p>Cocody Univ. Angora Aman Dept of Marine and Fisheries Sciences, Univ. of Ghana</p> <p>University of Ghana: A.K. Armah akarmah@yahoo.com ONEP office national des eaux potables - Mme Kone(CI), PENAF: Henry A. Okine: hokine@penaf.org</p> <p>CI- CRO: Centre de recherche oceanologique – Mr Bamba</p> <p>CI- CIAPOL Pr. Yapo</p> <p>Guinee: CERESCOR -Centre de recherche scientifique de Conakry ; Dr. Mohamed Lamine Keita ; amisenia@gmail.com; Dr Ibrahima Kalil Keita</p>	<p>Changes in sea level rise over time</p> <p>Data collection – lack of continuous long time series</p>	
Socioeconomic implications of ocean warming, sea level change, and freshwater fluxes	<p>Transboundary diagnostic analysis from the LMEs</p> <p>ODIN Africa databases</p> <p>UNEP regional report & studies 171, Nairobi, 1999</p> <p>IPCC Regional Studies</p> <p>National Reports Climate Change Convention, UNFCCC</p> <p>UNESCO UNDP Adaption to CC in Coastal ACCC, 2008-12</p> <p>Marine and Coastal ecosystems and human wellbeing: http://www.unep-wcmc.org/resources/PDFs/Completev6.pdf.</p> <p>World bank research paper (2007)</p>	<p>RAZC, Resilience and Adaptaion of CC to the coastal zone, Guinean: Dr. Mamdou Lamarana Diallo, Dr. Kanslet Bangoura bkandev@yahoo.fr</p> <p>University of Wageningen (NL), Harry Barnes-Dabban: hbarnesdabban@penaf.org</p> <p>UCAD, Dakar, Senegal, Prof. Isabelle Niang: isabelleniang@yahoo.fr</p> <p>UNFSS National Focal Points (cf reports)</p>	<p>Changes in sea level rise over time</p> <p>Data collection – lack of continuous long time series</p>	
Changes in chemical composition of seawater – salinity and nutrients – and their socioeconomic implications	<p>Transboundary diagnostic analysis from the LMEs</p> <p>ODIN Africa databases</p> <p>Nansen Project</p> <p>GCLME, CCLME, BCLME Projects</p> <p>Etude sur la proliferation des algues (CRO - CIAPOL)</p> <p>(togo) Projet de lutte contre les deversements en mer des boues de phosphate de l'usine de kpeme</p> <p>(CIPA, Guinee Bissau) Evaluation des stocks de poisson annuel incluant resultants des analyses chimiques de l'eau</p>	<p>Institute of marine biology and oceanography, Univ of Sierra Leone</p> <p>CI: Centre de recherche oceanologique (CRO) – CIAPOL;</p> <p>Guinee : institut de recherche scientifique CERESCOR et institute de recherche agronomique de Guinee (IRAG)</p> <p>Guinee Bissau: Centre d'investigation et recherche appliqué (CIPA)</p> <p>Togo: Laboratoire de gestion et valorization des dechets de l'Universite de Lome</p> <p>Chemical and physical oceanography department, Nigerian institute for oceanography and marine research (Lagos)</p>	<p>Data collection – lack of continuous long time series</p>	
Ocean heat transport, ocean circulation, and patterns – El Nino – and their socioeconomic implications	<p>Transboundary diagnostic analysis (TDA) from the LMEs</p> <p>AMMA Project</p> <p>Nansen Project</p> <p>EGEE PROPAO</p>	<p>US: NASA, SeaSat, Dr. James Verdin (USGS)</p> <p>Dr Bourles (IRD)</p> <p>O.A. Nubi (research thesis, Cotonou, Benin)</p>	<p>Knock on effect of El Nino in the sub—region</p>	

	<p>EQUALANT IPCC Reports</p>	<p>Univ. Cocody (Abidjan, CI): Dr Kouadio Affien</p> <p>Southern Africa: BCLME (Nico Willemsse – Hashali Hamukuaya)</p> <p>University of Cape Town : Franck Shyllington University of Port Elisabeth, Eckart Schuman</p> <p>Togo: CGILE</p> <p>Guinee: Etudes sur la modelisation de la circulation: Dept d'Océanologie: Dr. Mohamed Lamine Keita : amisenia@gmail.com; Dr Ibrahim Kalil Keita</p> <p>Nigeria Institute for Oceanography: Larry Awosika, Regina Folorunsho</p>		
	<p>Angulo, R. J.; Lessa, G. C.; Souza, M. C. (2006). A critical review of mid- to late-Holocene sea-level fluctuations on the eastern Brazilian coastline. <i>Quaternary Science Reviews</i>, v. 25, p. 486–506.</p> <p>Campos, E. J. D.; Piola, A. R.; Matano, R. P. (2008). Synoptic characterization of the Southeastern South American Continental shelf: The NICOP/Plata Experiment. v. 28(13), p. 1551-1692.</p> <p>Castro, B. M.; Miranda, L. B. (1998). Physical Oceanography of the Western Atlantic Continental Shelf located between 40N and 34oS. In: Robinson A.R. & Brink, K.H. (Eds.) <i>The Sea</i>, John Wiley & Sons, New York, v. 11, p. 209-25.1.</p> <p>Climate Change 2007: Synthesis Report. An Assessment of the Intergovernmental Panel on Climate Change. http://www.ipcc.ch/pdf/assessment-report/ar4/syr/ar4_syr.pdf</p> <p>Copertino, M. S.; Garcia, A. M.; Muelbert, J. H.; Garcia, C. A. E. (2010). Introduction to the Special Issue on Climate Change and Brazilian Coastal Zone. <i>Pan-American Journal of Aquatic Sciences</i>, v. 5(2). http://www.panamjas.org/pdf_conteudos/PANAMJAS_5(2)_Editorial.pdf</p> <p>Global International Waters Assessment Brazil current GIWA Regional Assessment 39. (2004). UNEP.</p> <p>Lucena, D. B.; Servain, J.; Gomes Filho, M. F. (2011). Rainfall Response in Northeast Brazil from Ocean Climate Variability during the Second Half of the Twentieth Century. <i>Journal of Climate</i>, v. 24, p. 6174–6184.</p> <p>Marengo, J. A.; Alves, L. M. (2005). Tendências Hidrológicas da Bacia do Rio Paraíba do Sul. <i>Revista Brasileira de Meteorologia</i>, (Hydrological tendencies of the Paraíba do Sul River Basin). <i>Brazilian Journal of Meteorology</i>, v. 20(2), p. 215–226.</p> <p>Mesquita, A. R. de Franco; Harari, J. (1986). On mean sea level variation along the Brazilian Coast: Part I. <i>Geophysical Journal of the Royal Astronomical Society</i>, v. 87, p. 66-77.</p> <p>Mesquita, A. R. de; Leite, J. B. A. (1986). Sobre a Variabilidade do Nível Médio do Mar na Costa Brasileira. <i>Revista Brasileira de Geofísica</i>, v. 4, p. 220-236.</p> <p>Mesquita, A. R. de; Harari, J.; França, C. A. de S. (1996). Global Changes in the South Atlantic: Decadal & Intradecadal Scales. <i>Anais da Academia Brasileira de Ciências</i>, v. 68(1), p.106-115.</p> <p>Moller, G. S. F.; Novo, E. M. L. de M.; Kampel, M. (2010). Space-time variability of the Amazon River plume based on satellite ocean color. <i>Continental Shelf Research</i>, v. 30, Issues 3–4, 27, p. 342–352.</p> <p>Negri, E. de O.; Knoppers, B. A.; Lorenzetti, J. A.; Medeiros, P. R. P.; Carneiro, M. A.; Souza, W. F. L. de (2010). A satellite view of riverine turbidity plumes on the NE-E Brazilian coastal zone. <i>Brazilian Journal of Oceanography</i>, v. 60(3), p. 283-298. ISSN 1982-436X.</p> <p>Neves, C. F.; Muehe, D. (2008). Vulnerabilidade, impactos e adaptação a mudanças do clima: a zona costeira. <i>Parcerias Estratégicas</i>, v. 27, p. 217 – 216.</p> <p>Nicolodi, J. L.; Petermann, R. M. (2010). Climate Changes and Vulnerability of the Brazilian Coastal Zone in its Environmental, Social, and Technological Aspects. <i>Journal of Integrated Coastal Zone Management</i>, v. 10(2), p. 151-177.</p> <p>Odebrecht, C.; Abreu, P. C.; Copertino, M.; Bemvenuti, C. E.; Muelbert, J. H.; Seeliger, U.; Vieira, J. P. (2010). The Patos Lagoon Estuary: Biotic responses to natural and anthropogenic impacts in the last decades (1979-2008). In: Michael J. Kennish; Hans W. Paerl. (Org.). <i>Coastal Lagoons: Critical Habitats of Environmental Change</i>. Boca Raton, FL: CRC Press. p. 1-25.</p> <p>Prediction and Research Moored Array in the tropical Atlantic PIRATA. www.pmel.noaa.gov/pirata</p> <p>Ronchail, J.; Labat, D.; Calleda, J.; Cochonneau, G.; Guyot, J. L.; Filizola, N.; Oliveira, E. de (2005). Discharge variability within the Amazon basin. <i>Regional Hydrological Impacts of Climatic Change—Hydroclimatological Variability</i>. Proceedings of symposium S6 held during the Seventh IAHS Scientific Assembly at Foz do Iguaçu, Brazil, April 2005. IAHS Publ. 296.</p> <p>Rossi-Wongtschowski, C. L. del B.; Madureira, L. S. P. (2006). O Ambiente oceanográfico da plataforma continental e do talude na região sudeste-sul do Brasil. 475 pp. EdUSP.</p> <p>Rudorff, N. M.; Kampel, M.; Rezende, C. E. (2011). Spectral mapping of the Paraíba do Sul river plume (Brazil) using multitemporal Land sat images. <i>Journal of Applied Remote Sensing</i> v. 5(053550), p. 053550-1 - 053550-19. Sept.</p> <p>Seeliger, U.; Odebrecht, C. (2010). O estuário da Lagoa dos Patos: um século de transformações. 1ed. Rio Grande: Ecomídia Marinha, p. 67-75.</p> <p>Silveira, I. C. A.; Calado, L.; Castro, B. M.; Cirano, M.; Lima, J. A. M.; Mascarenhas, A. S. (2004) On the Baroclinic Structure of the Brazil Current-Intermediate Western Boundary Current at 22°-23°S. <i>Geophysical Research Letters</i>, Estados Unidos, v. 31, n. L1, p. 4308. doi:</p> <p>Silveira, I. C. A. da; Lima, J. A. M.; Schmidt, A. C. K.; Ceccopieri, W.; Sartori, A.; Fransisco, C. P. F.; Fontes, R. F. C. (2008). Is the meander growth in the Brazil Current System off Southeast Brazil due to baroclinic instability?. <i>Dynamics of Atmospheres and Oceans</i>, v. 45(3–4), p. 187-207.</p> <p>Tessler, M. G.; Goya, S. C. (2005). Processos Costeiros Condicionantes do Litoral Brasileiro. <i>Revista do Departamento de Geografia</i>, v. 17, p. 11-23.</p>	<p>Ilsou C. A. Silveira (USP) email: ilsou.silveira@usp.br phone: + 55(11) 3091-6552</p> <p>Luiz B. Miranda(IOUSP) email: bruner@usp.br phone: +55(11) 30916598</p> <p>Belmiro M. Castro (IOUSP) email: bmcastro@usp.br phone: +55(11) 30916598</p> <p>Marcelo Dottori (IOUSP) email: mdottori@usp.br phone: +55(11) 30917131</p> <p>Alberto Piola, Naval Hydrography Service (Servicio de Hidrografia Naval) apiola@hidro.gov.ar</p>		

Sea/air interaction (Chapter 5)				
Atmospheric fluxes, oxygen production, carbon dioxide sequestration	Transboundary diagnostic analysis from the LMEs AMMA Project	U of Cocody, Prof. Ochou		
Hurricanes and typhoons, monsoon, trade winds	Transboundary diagnostic analysis from the LMEs AMMA Project Projet AMBER	National meteorological agencies: - Station Geophysique de Lamto (Cote d'Ivoire) - (...) World Meteorological Organization (WMO) Cote d'Ivoire: SODEXAM		
Trends in meteorological phenomena and their socioeconomic implications	N Transboundary diagnostic analysis from the LMEs IMET, Abuja ACMAD	ACMAD National meteorological agencies	Poor link between meteorological and oceanographic institutes	
Ocean acidification and the socioeconomic implications	Transboundary diagnostic analysis from the LMEs Arruda, W.; Lentini, C. (2011). A remote sensing derived upper ocean heat content dataset for the equatorial atlantic: comparison with PIRATA project data. <i>Revista Brasileira de Geofísica</i> , v. 29(1). doi: <10.1590/S0102-261X2011000100003> 1 Costa, M. F.; Landing, W. M.; Kehrig, H. A.; Barletta, M.; Holmes, C. D.; Barrocas, P. R. G.; Evers, D. C.; Buck, D. G.; Vasconcelos, A. C.; Hacon S. S.; Moreira, J. C.; Malm, O. (2012). Mercury in tropical and subtropical coastal environments <i>Environmental Research</i> , v. 119, p. 88-100. Feely, R. A. Doney, S. C., and Cooley, S.R. (2009). Ocean Acidification. <i>Present Conditions and Future Changes in a High CO₂ World</i> . <i>Oceanography</i> 22 (4). Kayano, T.M.; Andreoli, V. R.; Ferreira, de S. R. A. (2011). Evolving anomalous SST patterns leading to ENSO extremes: relations between the tropical Pacific and Atlantic Oceans and the influence on the South American rainfall. <i>International Journal of Climatology</i> , v. 31, p. 1119–1134. Mason, R. P.; Choi, A. L.; Fitzgerald, W. F.; Hammerschmidt, C. R.; Lamborg, C. H.; Soerensen, A. L.; Sunderland, E. M. (2012). Mercury biogeochemical cycling in the ocean and policy implications <i>Environmental Research</i> , v. 119, p. 101-117. Soppa, M. A.; Souza, R. B.; Pezzi, L. P. (2011). Variabilidade das anomalias de temperatura da superfície do mar no Oceano Atlântico Sudoeste e sua relação com o fenômeno El Niño-Oscilação Sul. <i>Revista Brasileira de Meteorologia</i> , v. 26, p. 347-363. Veleda, D.; Araújo, M.; Zantopp, R.; Montagne, R. (2012). Intraseasonal variability of the North Brazil Undercurrent forced by remote winds. <i>Journal of Geophysical Research</i> . In Press. < http://www.agu.org/pubs/crossref/2012/JC008392.shtml >.	Doris Velede (UFPE) e-mail: doris.veleda@ufpe.br phone: +55 (81) 8884-9944 Milton Kappel (INPE) e-mail: milton@dsr.inpe.br +55 (12) 3208-6447 Monica F. Costa (UFPE) email: mfc@ufpe.br	Lack of acidification data and trends 1 - In situ measurements at tropical latitudes.	Mercury is a very pressing issue and presently countries are weaving a global agreement on its use and monitoring in the environment. Please see < http://www.unep.org/hazardoussubstances/Mercury/Negotiations/tabid/3320/Default.aspx >

Primary production, cycling of nutrients, surface layer and plankton (Chapter 6)				
Primary production distribution	Transboundary diagnostic analysis from the LMEs ODIN Africa databases Activity reports from research centers	IRD, FR: EGEE, PROPAO Reports, EQUALANT: Dr. Bourles et. al., Nigerian Institute for Oceanography and Marine Research, Lagos Institute of Wetlands and Aquatic Biology, U of Ghana Marine and Research Institute, Namibia: Dr. Anja Kreiner Marine Fisheries Research Division, Hawa Yaqub Guinee: departement d'hydrobiologie du CERESCOR Cote d'Ivoire: CRO: Universite de Cocody, departement d'hydrobiologie.		
Surface layer and plankton, factors influencing the surface layer and species variation	Transboundary diagnostic analysis from the LMEs ODIN Africa databases Mauritania: Oil and Gas Diversity Programme (IUCN)	Same as previous above CRODT, Senegal: Hamat Dhiadou Prof. Christopher Gordon, cgordon@staff.ug.edu.gh; IESS, University of Ghana Mr A.K. Armahand Mr George Wiafe, Dept of Marine and fisheries sciences, Univ. of Ghana: akarmah@yahoo.com . Ghana EPA: Ms Dziedzom Gbeckor-Kove : pdgkove@yahoo.com Marine science depart;ent, Uni of Lagos, Prof. Nwankwo Mauritania: IMROP Guinee: Cerrescor: secretaire scientifique: Ansoumane Keita keitaansoumane@yahoo.fr ; Dr Bangaly Kaba, Dr Charles Raymond Haba IUCN	Lack of studies based on in-situ measurements	
Socioeconomic implications of primary production trends and other factors affecting food webs	Transboundary diagnostic analysis from the LMEs Upwelling areas: information source from CCLME, GCLME and BCLME			
	Castro, B. M.; Brandini, F. P.; Vanin, A. M. S. P.; Miranda, L. B. (2006). Multidisciplinary oceanographic processes on the Western Atlantic Continental Shelf located between 40N and 34oS. In: The Sea, vol. 14, ed. A.R. Robinson & K.H. Brink, p. 259-293. John Wiley & Sons, New York. Montes, M. J. F. (2003). Fatores que influenciam na produtividade dos oceanos: a influência do fluxo de difusão de nutrientes sobre a biomassa de fitoplankton na região oceânica do Nordeste brasileiro. Tese Doutorado DOCEAN/UFPE, 184p.	Frederico P. Brandini (IOUSP) email: brandini@usp.br Salvador Airon Gaeta (USP) email: sagaeta@usp.br Paulo Y.G. Sumida (IOUSP) email: psumida@io.usp.br Ana Maria S. P. Vanin (USP) email: ampires@usp.br, amspvanin@gmail.com Belmiro M. Castro (IOUSP) email: bmcastro@usp.br phone: +55(11) 30916598		
Ocean-sourced carbonate production (Chapter 7)				
Role of ocean-sourced carbonate production in the formation of atolls and beaches and potential impacts of ocean acidification	Almeida, C.M.; Barbosa, C. F.; Cordeiro, R. C.; Seoane, J. C. S.; Ferrino, G. M.; Silva, P. O.; Turcq, B. J. (2013). Palaeoecology of a 3-kyr biosedimentary record of a coral reef-supporting carbonate shelf. Continental Shelf Research.			
	Barbosa, C. F.; Ferreira, B. P.; Seoane, J. C. S.; Oliveira-Silva, P.; Gaspar, A. L. B.; Cordeiro, R. C.; Soares-Gomes, A. (2012). Foraminifer-based coral reef health assessment for southwestern Atlantic offshore archipelagos. Brazilian Journal of Foraminiferal Research, v. 42, p. 169–183.			
	Chung, S.-N.; Lee, K.; Feely, R. A.; Sabine, C. L.; Millero, F. J.; Wanninkhof, R.; Bullister, J. L.; Key, R. M.; Peng, T.-H. (2003). Calcium carbonate budget in the Atlantic Ocean based on water column inorganic carbon chemistry. Global Biogeochem. Cycles, v. 17(4), p. 1093.			

	Frenz, M.; Baumann, K.-H.; Boeckel, B.; Hoppner, R.; Henrich, R. (2005). Carbonate Sedimentology Quantification of Foraminifer and Coccolith Carbonate in South Atlantic Surface Sediments by Means of Carbonate Grain-Size Distributions. Journal of Sedimentary Research, v. 75(3), p. 464-475.			
Other				

Group II: Food security and safety

Topics <i>Task: review and add any new topics or sub-topics</i>	Relevant Studies, Documents, Reports and Other Sources of Information (refer to the Inventory list) <i>Task: Identify relevant sources of information, including but not limited to the Inventory list</i>	Key Individuals & Institutions to Engage (email & who suggested) <i>Task: list key individuals and institutions, including participants, who are important to engage in writing this topic (note: the authors will contact them regarding becoming part of the Global Pool of Experts and then contributors)</i>	Information Gaps <i>Task: Identify sub-topics lacking information</i>	Comments <i>Task: Include key points, particularly related to the substance of the topics and sub-topics</i>
Capture fisheries (Chapter 11)				
Commercial fish and shellfish stocks status and factors affecting large-scale industrial, artisanal, and recreational sectors and their socioeconomic implications	<p>Assessment on the living resources and habitats from the South Atlantic are available from several sources For the Easter South Atlantic these include:</p> <p>FAO (e.g., Fisheries bycatch and discards assessments http://www.fao.org/docrep/003/4890e/t4890e00.htm) and FAO's Fishery Committee for the Eastern Central Atlantic CECAF/COPACE reports including stock assessments, fisheries policy documents developed for Western Africa Region. http://www.fao.org/fishery/rfb/cecaf/en</p> <p>ATLAFCO- The Ministerial Conference on Fisheries Cooperation among African States Bordering the Atlantic Ocean (http://www.atlafco.org)</p> <p>COMHAFAT- Conférence Ministérielle sur la Coopération Halieutique entre les Etats Africains Riverains de l'Océan Atlantique</p> <p>SRFC- Subregional Fisheries Commission (http://www.csrp.org) CSRFP- Commission Sous-Régionale des Pêches</p> <p>FCWC- Fishery Committee for the West Central Gulf of Guinea (http://www.fcwc-fish.org) CPCCO- Comité des Pêches pour le Centre Ouest du Golfe de Guinée</p> <p>COREP- Regional Fisheries Committee for the Gulf of Guinea / Comité régional des pêches du Golfe de Guinée (http://www.un.org/depts/los/Links/COREPpage.htm)</p> <p>GCLME Sub Regional Fisheries Commission Morocco/Mauritania http://www.unido.org/en/what-we-do/environment/resource-efficient-and-low-carbon-industrial-production/watermanagement/services/gclme.html Project "Combating Living Resources Depletion and Coastal Area Degradation in the Guinea Current Large Marine Ecosystem" http://earthmind.net/marine/docs/gclme-draft-valuation-report.pdf (e.g. Productivity Patterns in the Guinea Current Large Marine Ecosystem with regard to its Carrying Capacity for Living Resources, 2011 http://gclme.iwlearn.org/documents-centre/racs/pb/productivity-demo-project-report-2011)</p> <p>SEAFO: South East Atlantic Fisheries Organization www.seafo.org</p> <p>ARTFISH Artisanal fisheries data and information. Global but mainly for Western African Countries- http://www.fao.org/fishery/topic/16081/en</p> <p>BENGUELA CURRENT COMMISSION (Namibia-Angola) http://www.benguelacc.org/</p> <p>Union Economique et Monetaire Ouestern Africa UEMOA / Western African Monetary and Economic Union WAMEU Artisanal and Industrial fisheries sectors target the same stocks in many cases. In some of the countries the artisanal sector is more important than the industrial sector. No recreational information- Assessments for fish stock not separated. Separating the information from both sources is a challenge for fisheries statistic authorities.</p> <p>For the Western South Atlantic, assessments on the living resources and habitats are provided by the following programs and institutions:</p> <p>CTMFM- http://ctmfm.org/ - (Argentina and Uruguay Management Commission for the marine shelf area off the mouth of Rio de la Plata) (available since the early 1980's in technical papers and the journal of the Comision Técnica Mixta del Frente Marítimo)</p> <p>INIDEP: Instituto Nacional de Investigación y Desarrollo Pesquero (Argentina) http://www.inidep.gob.ar/ including evaluations on the main industrial fisheries resources (Argentinean hake, squid, Patagonian shrimp, pelagic species such as anchovy, and others).</p> <p>Provincial Fisheries Research Institution (only in IBMPAS Rio Negro Province, (http://oceandocs.org/handle/1834/3680))</p> <p>Consejo Federal Pesquero - http://www.cfp.gob.ar/ - and FAO Project UTF/ARG/018/ARG - CFP/FAO, "Apoyo al Consejo Federal Pesquero para la formulación de la política de investigación pesquera y aplicación tecnológica en la pesca en la República Argentina"- including a recent assessment on fisheries research strenghts and gaps in Argentina is available in documents from</p> <p>MINAGRI (Ministerio de Agricultura, Ganadería y Pesca) Fish and Aquaculture Subsecretariat http://www.minagri.gob.ar/site/pesca/index.php - Dirección de Estadísticas Pesqueras provide the results of regular assessments on landings, with temporal data series http://old.siaa.gov.ar/index.php/series-por-tema/pesca and Import and Export Statistics as well as a variety of fisheries economics papers http://www.minagri.gob.ar/site/pesca/pesca_maritima/04=informes/05-economia_pesquera/index.php.</p> <p>MINCYT (Ministerio de Ciencia y Técnica) holds the Base de Datos del Mar (Argentinean Seas Database).</p> <p>).</p> <p>A diversity of assessments on fisheries resources and habitats are available from regional R&D centers from the Consejo Nacional de Investigaciones Científicas y Técnicas de Argentina - CONICET – as well</p>		<p>Guinea Ecautoriale concentrate its economic activities on Oil exploitation. Artisanal fisheries is a secondary economic sector. In countries like Ghana some fisheries are subexploited and there are scarce studies conducted to evaluate the interactions with the oil industry. Illegal fishing- In the case of Liberia the Marine Resource Assessment Group (UK) ss. estimated economic loss. The Environmental Justice Foundation also is engaged in this type of studies. FAO has assessed the importance of other activities to livelihood of fisher communities. Impact of unsustainable fisheries such as trawling and light attractors.</p>	

	<p>as Universities from coastal provinces.</p> <p>DINARA Dirección Nacional de Recursos Acuáticos from Uruguay : National institution conducting stock assessments and fisheries Studies at different levels- www.dinara.gub.uy</p> <p>Facultad de Ciencias de la Universidad de la República www.universidad.edu.uy Departamentos de ecología Oceanografía y ecología Marina: http://oceanologia.fcien.edu.uy/Publicaciones_OEM.html</p> <p>Environment Ministry participates in bilateral projects such as ECOPLATA http://www.ecoplata.org/documentos/ and FREPLATA http://www.freplata.org/ , including Co-management studies.</p> <p>Uruguay ONG's documents reporting the results of assessments are available CICMAR http://cicmar.org/publicacionesKarumbe http://www.karumbe.org/web/publi.htm Zoologica del Uruguay http://www.szu.org.uy/Cetaceos http://www.occ.org.uy/inicioVidaSilvestre http://vidasilvestre.org.uy/ Cedepesca http://www.edpesca.net</p> <p>In Brasil, a long list of documents report assessments on the state of fisheries and habitats (See Annex), which are produced by the following programs and institutions:</p> <p>Ministry of Environment – REVIZEE.. Avaliação do Potencial Sustentável de Recursos Vivos na Zona Econômica Exclusiva http://www.mma.gov.br/biodiversidade/biodiversidade-aquatica/zona-costeira-e-marinha/programa-revizee</p> <p>FAO www.fao.org</p> <p>Instituto Oceanografico de Sao Paulo www.io.usp.br/ Ministerio da Pesca e Aquicultura www.mpa.gov.br/ IBAMA/Ministry of Environment www.ibama.gov.br/</p> <p>ICMBIO/Ministry of Environment www.ibama.gov.br/</p>			
Other fish and shellfish stocks status and factors affecting artisanal and recreational sectors and their socioeconomic implications				
Effects of pollution and the socioeconomic implications				
Scale, location and impact on fish stocks of illegal, unreported and unregulated fishing				
Projections of status of fish and shellfish over the next decade				
Aquaculture (Chapter 12)				
	<p>Marine culture industry has been poorly developed in the South Atlantic.</p> <p>Aquaculture activities are developed in Nigeria, Cote D' Ivore and Nambia, but there were no specialist in the group</p> <p>Cote d' Ivore and Niger are producing Spirulina in land-based culture facilities.</p> <p>Uruguay has started projects on development of culture technologies for sole (see Dinara web page)</p> <p>Argentina cultures Crassostrea gigas and mussel. Many institution are working together in a network for the development of marine aquaculture to develop the sector in Patagonia www.mariiculturaenred.org.ar/y</p> <p>In Brasil, assessments (see Annex) on different aspects of shrimp, oyster and mussel farming are being conducted by several institutions including those mentioned above, as well as Universities and Government Organizations.</p>			
Fish stock propagation (Chapter 13)				
	<p>The status of fish stock propagation assessments is very incipient for the South Atlantic. There are only some experimental studies being conducted in CADIC (Austral center for scientific research) in Tierra del Fuego (Argentina) directed to develop technologies to restock king crab populations, in the Instituto de Pesca de Sao Paulo and several Universities, specially on demersal fish and ornamental fish</p>			
Seaweeds and other sea-based food (Chapter 14)				
	<p>Seaweed exploitation is very limited in the South Atlantic. There are some assessments available in Brasil, conducted by the Ministry of Fisheries and the Universities, and in Patagonia provincial level stock and landing seaweed assessments are conducted in Chubut Province (Argentina, Patagonia).</p>			
Oceans and seas as sources of food (Chapter 10)				
	<p>Assessments examining the sources of food of oceans and seas (e.g., national seafood production group) are available- The group was unable to evaluate them in detail.</p>			
Other social and economic aspects of fisheries and sea-based food (Chapter 15)				
	<p>Assessments are available from the same institutions listed above. Some examples include production processes, socio-environmental diagnosis on fishery communities (see Annex).</p>			

Group III: socio-economic aspects

Oceans' roles in hydrological cycle (Chapter 4)	Relevant Studies, Documents, Reports and Other Sources of Information (refer to the inventory list) <i>Task: identify relevant sources of information, including but not limited to the inventory list</i>	Key Individuals & Institutions to Engage (email & who suggested)	Information Gaps	Comments
		<i>Task: list key individuals and institutions, including participants, who are important to engage in writing this topic (note: the authors will contact them regarding</i>	<i>Task: identify sub-topics lacking information</i>	<i>Task: include key points, particularly related to the substance of the topics and sub-topics</i>

		becoming part of the Global Pool of Experts and then contributors)		
Scientific understanding of ecosystem services (Chapter 3)				
Aesthetic, cultural, religious and spiritual ecosystem services (Chapter 8)				
Shipping (Chapter 17)				
Economic Significance of Shipping and trend over next decade	Refer to SE Atlantic Seminar 11-13 September 2013	Carlos Soares (Brazil); Pedro Barón from Centro Nacional Patagónico (CENPAT) for introduced species as consultant or reviewer baroncp@gmail.com		
Harmful impacts from pollution, acoustics, disasters, transport of invasive species and hazardous, noxious substances	www.penaf.org International Ocean Institute (IOI) South Africa http://www.ioisa.org	Harry Barnes-Dabban (hbarnesdabban@penaf.org) Adnan Awad (adnanawad@hotmail.com)		
Legal Aspects of Marine Pollution from Ships		Dr. Cisse Yacouba, University of Bouake, Faculty of Law, Cote d'Ivoire (ycisse2009@yahoo.fr);		
Ports (Chapter 18)				
Economic significance of ports and trend over the next decade	Refer to SE Atlantic Seminar 11-13 September 2013			
Ports development and maintenance and socioeconomic implications	www.benomconsult.com	Francois Edgard Faure (faured@yahoo.fr) Gabon Harry Barnes-Dabban (hbarnesdabban@penaf.org) Ghana Ben Owusu-Mensah (ben@benomconsult.com) Ghana		Expansion of Takoradi Port; Tema Port; Abidjan Port; Libreville Port; New development for Port Gentil; Expansion of Liberia Ports; Lome Port; San Pedro Port; Conakry Port; Pointe Noire Port; New development for Kribi Port to support oil and gas related; Expansion of Boke Port of Kamsar; 160 new ports in Brazil; Conversion of existing port into a Mariner in Libreville; New ports in Uruguay; Expansion of Nigerian Ports; Expansion of Walvis Bay Port in Namibia;
Submarine cables and pipelines (Chapter 19)				
Economic magnitude and location of cables and pipelines and socio-economic implications	Refer to Greg's Cable Map http://www.cablemap.info			Uruguay has 3 cables existing; Libreville has 2 fiber optic cables existing and one pipeline from Port-Gentil to Libreville; West African gas pipeline running from Nigeria to Ghana; Submarine cable in Abidjan; Equatorial Guinea has one fiber optic cable; Cameroon has three fiber optic cables; Nigeria has seven fiber optic cables; Benin has three fiber optic cables; Togo has two fiber optic cables; Ghana has six fiber optic cables; Cote d'Ivoire has seven fiber optic cables;
Pollution	UN report on the magnitude of oil spillage in Ogoniland in Nigeria requiring 30 years for clean-up	www.unep.org/disastersandconflicts/Nigeria/ ; www.unep.org/newscentre/default.asp?lit.aspx ; www.shell.com.ng ;	Lack of reporting and documentation on oil leakages and spills	Oil spill and fire explosion in Tema Port (2005);
Coastal, riverine and atmospheric inputs from land (Chapter 20)				
Source of pollution, including municipal wastes, industrial wastes, and agricultural runoff	Protocol on land based sources of pollution (Abidjan Convention); UNEP Report on State of the Marine Environment and Regional Assessment; GCLME Reports; FREPLATA Program;	Secretariat of the Abidjan Convention; Dr. Jacques Abe (Cote d'Ivoire); Dr. Ajao (Nigerian Institute for Oceanography and Marine Research, Victoria Island, Lagos, Nigeria); Gnandi Kissao, University of Lome, Togo;		
Eutrophication	Protocol on land based sources of pollution (Abidjan Convention); UNEP Report on State of the Marine Environment and Regional Assessment; GCLME Reports; FREPLATA Program;	Secretariat of the Abidjan Convention; Dr. Jacques Abe (Cote d'Ivoire); Dr. Ajao (Nigerian Institute for Oceanography and Marine Research, Victoria Island, Lagos, Nigeria - gbovegaajao@yahoo.com); Gnandi Kissao, University of Lome, Togo;		
Desalinization, Nuclear Power Plants	www.dailyguideghana.com ;			3 Nuclear power plants in Rio de Janeiro State; Nuclear Power Plant in Atucha, Argentina; Desalination Plant Project in Teshie, Ghana;
Offshore hydrocarbon industries (Chapter 21)				
Scale and significance and socioeconomic implications	African Petroleum Association; IPIECA; Refer to SE Atlantic Seminar 11-13 September 2013;	Yacouba Cisse; Julien Rochette;	Lack of studies on socio-economic impacts	Takoradi in Ghana; Port Gentil in Gabon; San Sebastian in Brazil; Northern Coast of Rio de Janeiro State; Limbe in Cameroon; Kribi in Cameroon; Niger Delta Area; Conflict with fishermen over access around oil platform at Cape Three Points in Ghana; Taxes from offshore development channeled into education in Brazil;
Impacts from exploration	Workshop on Environmental Standards for the exploration and exploitation of oil and gas in West, Central and Southern Africa Region under the auspices of the Abidjan Convention and IDDRI SciencePo Paris; Refer to SE Atlantic Seminar 11-13 September 2013;		No Regulations on seismic surveys in Uruguay	Gabon has a strict regime on seismic surveys; Regulations exist in Uruguay for drilling;
Disasters	UN report on the magnitude of oil spillage in Ogoniland in Nigeria www.unep.org/disastersandconflicts/Nigeria/ ; www.unep.org/newscentre/default.asp?lit.aspx ; www.shell.com.ng ; SE Atlantic Seminar 11-13 September 2013	Abidjan Convention and IDDRI SciencePo Paris (Julien Rochette); IPIECA;	Lack of studies for the region	
Other marine-based energy industries (Chapter 22)				
Scale of wind, wave, ocean	SE Atlantic Seminar 11-13 September 2013;			No renewable energy

thermal and tidal power generation				installations in West Africa; SE Atlantic Seminar Report does not include information on Argentina;
Environmental benefits and impacts				
Expected economic performance				
Significant socioeconomic aspects				
Offshore mining industries (Chapter 23)				
Sand and gravel mining and socioeconomic implications	http://sabilereowendo.com ;	La Sabliere D'owendo (Libreville, Gabon);	Lack of studies on aggregate mining	About 70 percent of sand used for concrete works in Libreville is mined from the channel at the mouth of an estuary; In South East Brazil there is sand and gravel mining including carbonate mining; Placer of Djeno mines heavy minerals in Republic of Congo and Angola (to be validated)
Status of non sand/gravel mining activities				
Solid waste disposal (Chapter 24)				
Types and amounts dumped into the sea and trend over the next decade	Abidjan Convention Reports?; International Maritime Organization?; UNEP?; GCLME;		Lack of studies in both South America and Africa; Lack of capacity in the region to assess solid waste disposal in the ocean;	Dumping from Phosphorate Treatment Plant in Togo;
Marine Debris (Chapter 25)				
Causes	UNEP and NOAA Report on Marine Litter(Honolulu Strategy); GESAMP (IMO); Report on Micro Plastics (2010); SE Atlantic Seminar 11-13 September 2013; UNEP Report on Marine: Litter – Global Challenge (2009) www.unep.org/pdf/unepo_marine_litter-a_global_challenge.pdf ; Marine Debris as a Global Environmental Problem (2011) www.thegef.org ;	Please see SE Atlantic Seminar 11-13 September 2013; Brazil Ministry of Environment; Peter Ryan (South Africa); Scientific and Technical Advisory Panel (GEF, UN, UNEP); Miguel Iñiguez miguel.iniguez@cethus.org		
Approaches to combating marine debris				
Land/sea physical interaction (Chapter 26)				
Magnitude and location of land reclamations and habitat modifications			Lack of studies on land reclamation in the region	Land reclamation in Cogo (formerly to Porto Iradier) in Equatorial Guinea; Reclamation in Takoradi Port, Ghana, to create new terminals;
Erosion of land by the sea and socioeconomic implications	SE Atlantic Seminar 11-13 September 2013, Abidjan Convention; GCLME; UNEP; UNESCO Report on Coastal Erosion – A Major Threat to West Africa www.rccc.org ; UN Project to Tackle West African Coastline Erosion www.africafocus.com ;West Africa – Coastline to be Submerged by 2099 www.irinnews.org ; Detection, Measurement and Prediction of Shoreline Recession in Accra, Ghana (ISPRS Journal of Photogrammetry and Remote Sensing, Vol. 63 [2008], 543-558); Ecoplata Program in Uruguay; Sand barrier development in the bight of Benin, West Africa by Adote Blivi et al; Scientific needs to assess the health of the oceans in coastal areas: a perspective of developing countries by Larry Awosika et al; Marine Capacity Building in North and West Africa by Maria Snoussi and Larry Awosika;	Prof. Adote Blivia (Centre for Integrated Coastal Management, University of Togo); Prof. Larry Awosika (University of Lagos); Dr Appeaning Addo (University of Ghana); Prof. Afian (University of Cocody); Dr. Kouadio Alain Serges (University of Abobo Adjame, Cote d'Ivoire); Vivino Mouyalou (CENARES, Gabon vivinomax2@yahoo.fr); Dr. Magloir Desire Mouganga(CENARES, Gabon magdesir@yahoo.fr); Prof. Jean Bernard Mombo (University of Omar Bongo, Libreville jb.mombo@yahoo.fr);	Lack of time series data on coastal erosion; Lack of modeling capability; Lack of decision tools and training for managers; Lack of socio-economic data; No clear technological solution;	Coastal erosion in the region is caused by both human activities and natural processes
Sedimentation changes and trend over the next decade	Study on the effect of Akosombo dam construction on sedimentation(Dr. Appeaning Addo et al); Study on the Comoe river estuarie entrance (Dr. Jacques Abe); Freplata program between Argentina and Uruguay; Effet du barrage de Nangbetu sur l'evolution du trait de cote; une analyse previsionnelle sedimentologique. J. Rech. Sci.unv. Benin-Togo,4(1) .p. 29-41;	Inter-ministerial Committee in Cote d'Ivoire;		Water extraction and dam building activities are undertaken in the San Francisco river and Paraiba Do Sur river, Brazil;
Tourism and recreation (Chapter 27)				
Magnitude and location, including cruise ships, of tourism and ecosystems and socioeconomic implications	Journal of Coastal Research (special issue on tourism) Vol:61, 2011; UNEP Study on Coastal Tourism; Green Economy in a Blue World by UNEP; World Tourism Organisation;	Miguel Iñiguez miguel.iniguez@cethus.org	Lack of studies on the tourism industry; Lack of capacity to assess tourism and all associated aspects i.e economic environmental and social;	Cruise tourism is uncommon in West Africa though common in Southern America;
Pollution				
Habitat disturbance				
Desalination (Chapter 28)				
Magnitude and location of desalination activities and socioeconomic implications				Desalination is not common in the South Atlantic region;
Use of marine genetic resources (Chapter 29)				
Magnitude and location of marine scientific research and exploitation and socioeconomic aspects	SE Atlantic Seminar 11-13 September 2013;			
Marine scientific research (Chapter 30)				
Topic and location of marine scientific research and socioeconomic implication				

Group IV: Marine Biological Diversity Aspects

TOPIC: Marine Biological Diversity Aspects	Relevant Studies, Documents, Reports and Other Sources of Information (refer to the Inventory list) <i>Task: Identify relevant sources of information, including but not limited to the Inventory list</i>	Key Individuals & Institutions to Engage (email & who suggested) <i>Task: list key individuals and institutions, including participants, who are important to engage in writing this topic (note: the authors will contact them regarding becoming part of the Global Pool of Experts and then contributors)</i>	Information Gaps <i>Task: identify sub-topics lacking information</i>	Comments <i>Task: include key points, particularly related to the substance of the topics and sub-topics</i>
Scale of marine biological diversity (Chapter 34)				
Ghana				
	<p>K.A.A. deGraft-Johnson, J. Blay, F.K.E. Nunoo, C.C. Amankwah, 2010. "Biodiversity Threats Assessment of the Western Region of Ghana". The <i>Integrated Coastal and Fisheries Governance (ICFG)</i> Initiative Ghana. This publication is available electronically on the Coastal Resources Center's website: www.crc.uri.edu.</p>	<p>Dr. F.K.E. Nunoo Dept of Marine and fisheries Sciences, University of Ghana, Legon. kenunoo@ug.edu.gh +233 242981547</p> <p>Mr. C. C. Amankwah Wildlife Division (Forestry Commission, Ghana) ccamankwah@yahoo.com +233 244262467</p> <p>Prof OforiDanson Dept of Marine and Fisheries Sciences, University of Ghana, Legon ofdan@ug.edu.gh +233 20 8351477</p> <p>Mr. A.K. Armah, Dept of Marine and Fisheries Sciences, University of Ghana, Legon akarmah@yahoo.com</p> <p>Dr. Mensah IESS University of Ghana, Legon +233 244481018 ammensah@ug.edu.gh</p> <p>Mr. H.A. Okine Ports Environmental Network-Africa hennyjustice@yahoo.com +233 243575890</p>		
	<p>Armah, A.K. and Amlalo, D.S. (1998): Coastal Zone Profile of Ghana. Gulf of Guinea Large Marine Ecosystem Project. Ministry of Environment, Science and Technology, Accra, Ghana.</p>	<p>Mr. Daniel Amlalo Environmental Protection Agency. daniel_amlalo@epa.gov.gh + 233 0501301744</p> <p>Mr. A.K. Armah, Dept of Marine and Fisheries Sciences, University of Ghana, Legon akarmah@yahoo.com</p>		
	<p>Biney, C. A., deGraft-Johnson, K.A.A., Opoku, A.A., (1995): The State of Wetlands in Ghana. FOE, Accra. IAB Technical Report.</p>	<p>C.A. Biney</p>		
	<p>Dankwa, H., Entsua-Mensah, M. and Asmah, R. (1997): Fish Species Composition and Richness of Lagoons and Estuaries of Ghana. Technical Report No. 161. Water Research Institute (CSIR) Ghana.</p>	<p>Dr. Entsua-Mensah CSIR</p> <p>Dr. Ruby Asmah WRI-CSIR +233 205424161 rubbyasmah@yahoo.com</p> <p>Dr. H. Dankwa WRI-CSIR +233 208151877 hrdankwa@yahoo.com</p>		
	<p>World Bank/Environmental Protection Agency (1996). Towards an Integrated Coastal Zone Management Strategy for Ghana.</p> <p>Council for Scientific & Industrial Research (CSIR) (2010) Survey of polluted coastal water bodies in Ghana.</p> <p>Evans S. M. Vanderpuye, C. J. and A. K. Armah (Eds.) (1997). The Coastal Zone of West Africa: problems. solutions. Penschaw Press. U. K. 246 pp.</p>			
Nigeria				
		<p>Oceanography institutions e.g. NIOMR, IOC, University of Calabar, DrAjao, DrOyewo, DrNwosu</p>		
Mauritania				
	<p>Rapports de suivi, thèses, mémoires de master.</p>	<p>PNBA, IMROP, CBD-habitat, Nejah, Ministère de l'environnement</p>	<p>Manque d'information sur les habitats au large.</p>	<p>Zone riche en ressource halieutique : plus de 286 espèces de poissons, plus de 20 espèces de mammifères marins, plus de 3 millions d'oiseaux et plusieurs espèces de crustacés et de benthos.</p>
Guinea Bissau				
	<p>L'étude sur la dégradation de mangrove dans la zone de CACINE e les ILES de BIJAGOS</p>	<p>(Centre de Recherche de la Pêche Appliquée (CIPA) et Institute de la Biodiversité et des</p>		

	Inventaire sur Faune et Flore de la zone de Varela (Projet ACCC- 2012);	Aires protégées (IBAP) Direction Générale de l'Environnement et Institute de la Biodiversité et des Aires protégées (IBAP) ; PNUD/GEF	----- -----	-----
	Stratégie National et Plan de action sur la Biodiversité	Direction Générale de l'Environnement; PNUD/GEF		
	Plan National de Gestion Environnemental 2004 - (PNGA)	Direction Générale de l'Environnement		
	Plan Stratégique de Développement de la Pêche - 2008	CIPA/Ministère de Pêche		
	L'étude sur la dégradation de mangrove dans la zone de CACINE e les ILES de BIJAGOS	(Centre de Recherche de la Pêche Appliqué (CIPA) et Institute de la Biodiversité et des Aires protégées (IBAP)	----- -----	-----
Congo				
Etat de l'environnement marin	-Rapport de l'état de l'environnement marin du Congo 2007	-PNUE, 2007		
Les sédiments du littoral congolais	-Bilan de recherchesédimentologique,palologiq ue,géochimique	-Giresse, P. Jansen, 1981		
Etat de l'environnement marin	-Rapport de l'état de l'environnement marin du Congo 2007	-PNUE, 2007		
DRC				
	L'étude sur les ressources marines de la RDC plus particulièrement dans les mangroves, Etudes initiées par le MECNT, Raport annuels, thèses doctorales, mémoires, rapports de mission, rapport d'évaluation	MECNT, CIGC, Jean Paul MwambaNyembo (nyembordc@yahoo.fr) CCPM, Jean Paul MwambaNyembo (nyembordc@yahoo.fr) ISP, Jean Paul MwambaNyembo (nyembordc@yahoo.fr) IFUTA (futandey@yahoo.fr) ICCN, walingula@iccn.cd MINAGRletPeche, Gayo (gayowadur@yahoo.fr) UNIKIN, ACODES, MINTRP, PERENCO	Habitats de profondeur : agrégats d'éponges, estuaire transfrontalière, grotte du canyon	Etudes non achevées et pas encore de portail pour consulter ces documents
Namibia				
	A.L.Sakko(1998). <i>The influence of the Benguela upwelling system on Namibia's marine Biodiversity</i> Phoebe Barnard (1998) <i>Biological diversity in Namibia: a clash of sea and land, fog and dust</i>	-Ministry of Fisheries and Marine Resources, Namibia(http://www.mfmr.gov.na/) -Ministry of Environment and Tourism -Institute for Hydrobiology and Fisheries Science University of Hamburg, GENUS project. Benguela Current Commision Namibia Dolphin Project(http://www.namibiandolphinproject.com/) Dr H HoltzhausenDr. Hashali Hamukwaya Dr Sam MalwilaAnja KreinerRod Braby		
Extent of assessment of marine biological diversity (Chapter 35)				
Ghana				
	Status of the Coastal & Marine Ecosystems in the Guinea Current Large Marine Ecosystem Region	GCLME website		
	Koranteng, K. A. (1998) The impacts of environmental forcing on the dynamics of demersal fishery resources of Ghana. PhD. Thesis, University of Warwick Koranteng, K. A., (2001). Diversity & stability of demersal species assemblages in the Gulf of Guinea. West African Journal of Applied Ecology (2) 49-63 Wiafe G., et Frids (2000) Guide to the identification of marine zooplankton of the Guinea Current Ecosystem	K. A. Koranteng CSIR Dr. G. Wiafe Dept of Marine and Fisheries Sciences, University of Ghana,Legon gwiafe@ug.edu.gh		
Nigeria				
	-GCLMETDA -GCLME NAP -draft ICAM for Nigeria -Restoration and the Conjunctive Sustainable Management of Native Mangroves and Nypa palms in the Cross River Estuary of Nigeria - The Cross River Estuary Mangrove GCLMERAC on EIMS maps on Nigeria Mangroves -individualPh.D studies - status of Mangrove Swamp in Lagos State. -Assessment of change in Mangrove ecological zones and socio-economic impacts of the Niger Delta	GCLME/IGCC website FMENV Universities Research institutions Bioresources Development & Conservation Prog (BDCP) DrAjao Prof. S. Holzioener Dr F. Nwosu Prof. P. Nwilo Godstime James et al Dr(Mrs) E. Ebewele	Current status of the mangrove species need to be known through a survey and GIS mapping.	
Mauritania				
Zone côtières -50m	Rapports de suivi, thèses, mémoires de master.	PNBA, IMROP, CBD-habitat, Nejah, Ministère de l'environnement	Manque d'information sur les habitats au large.	Zone riche en ressource halieutique : plus de 286 espèces de poissons, plus de 20 espèces de mammifères marins, plus de 3 millions d'oiseaux et plusieurs espèces de crustacés et de benthos.
Zone entre -50 et -200m	Rapports de suivi, thèses, mémoires de master.	IMROP.	Manque d'information sur les habitats au large.	
Guinea Bissau				

	Valeur économique de Parcure Naturel de Taraf de Cacheu - 2011	IBAP; DrJustinoBIAI; www.ibap-gb.org	-----	
	L'étude socio-économique pour les aires protégées de Cufada, João Vieira e Poilão e Orango	IBAP; DrJustinoBIAI; www.ibap-gb.org		
	Evaluation Annuel de stock de Pêche	Centre de recherche de pêche appliqué – CIPA/Ministère de pêche ; Dr Vitorino ASSAUNAHADA	-----	
Congo				
Etat delieux de ressources biologiques	Plan d'Action National	Etat delieux de ressources biologiques	Plan d'Action National	Etat delieux de ressources biologiques
Etat de lieux des ressources biologique	Plan d'Action National	Etat de lieux des ressources biologique	Plan d'Action National	Etat de lieux des ressources biologique
DRC				
Les habitats des eaux côtières et du plateau continental : -Plage, herbiers, estuaries, vasières lagunes, criques, recifs, grottes du canyon,mangroves	PAN, PAS, Profil côtier, Etude d'érosioncôtière Theses, memoires	MECNT, CICC, -Jean Paul MwambaNyembo (nyembordc@yahoo.fr) CCPM, Jean Paul MwambaNyembo (nyembordc@yahoo.fr) ISP, IFUTA (ifutandey@yahoo.fr) ICCN, walingula@iccn.cd MINAGRletPeche, Gayo (gayowadur@yahoo.fr) UNIKIN, ACODES, MINTRP, PERENCO	Agrégats d'éponges Recifs de fond marin les coreaux	
Overall status of major groups of species and habitats (Chapter 36)				
Ghana				
	Armah A. K. (2006): Biodiversity Status of the Guinea Current Large Marine Ecosystem Armah, A.K., Kendall, M.A. & Warwick, R.M. (1997) Polychaete biodiversity of the coastal waters of Ghana: In The Coastal zone of West Africa problems and Management. (eds) S.M. Evans, C.J. Vanderpuye & A. K. Armah.	Prof YaaNtiamao-Baidu Centre For African Wetlands. Ghana Wildlife Society Mr. A.K. Armah, Dept of Marine and Fisheries Sciences, University of Ghana.Legon. akarmah@yahoo.com Mr. C. C. Amankwah Wildlife Division (Forestry Commission, Ghana) ccamankwah@yahoo.com +233 244262467 Prof C. Gordon IESS University of Ghana. Legon cgordon@ug.edu.gh + 233 02117200		
	Armah, A.K. & E. Nyarko. On the faunal biodiversity of the Gulf of Guinea Large Marine Marine Ecosystem In: Integrated Environmental & Living Resources Management in the Gulf of Guinea – The Large Marine Ecosystem Approach (eds) Chidilibe, A.A. Oteng – Yeboah, S.G. Zabi & D. Afolabi.	Mr. A.K. Armah, Dept of Marine and Fisheries Sciences, University of Ghana.Legon akarmah@yahoo.com GCLME website		
	The value of Mangroves to Ghana	Prof C. Gordon IESS University of Ghana.Legon cgordon@ug.edu.gh + 233 02117200 Prof YaaNtiamao-Baidu Centre For African Wetlands. Mr. A.K. Armah, Dept of Marine and Fisheries Sciences, University of Ghana. Legon. akarmah@yahoo.com		
	Villegas, L. & Garcia, S. (1983) Demersal fish assemblages in Liberia, Ghana, Togo, Benin & Cameroon. CECAF/ECAF Series 83/26 (En) Rome:FAO, 16pp			
Nigeria	-NBSAP Nigeria	FMEnv		
Les oiseaux (iles et ilot)	Rapports de suivi, thèses, mémoires de master.	IMROP, PNBA, PND, PBGP, Ministère de l'environnement.	Peu d'information sur les prédateurs des oiseaux.	Plus de 3 millions repartie sur une centaine d'espèces.
Les poissons (zones côtières et plateau continental)	Rapports de suivi, thèses, mémoires de master.	IMROP, PNBA, Université de Nouakchott Ministère de pêche.	Manques d'informations sur la fraction juvénile.	
Les mammifères marins (les côtes rocheux et sablo-vaseux)	Rapports de suivi, thèses, mémoires de master.	IMROP ; PNBA, PBGP, Nejah, CBD-habitat.	Manque d'information sur les causes d'échouages.	Plus de 20 espèces déjà identifiées.
Faunebenthique (zones côtières)	Rapports de suivi, thèses, mémoires de master.	IMROP, PNBA, PBGP, Université de Nouakchott, ONISPA.	Manque d'information sur l'éco-biologie des espèces.	Ils ne sont pas exploités en Mauritanie.
Guinea Bissau				
Les habitats: Lagunes;		IBAP ; Cabinet de Planification		Menace : Lamantin et

Mangrove; Banc de sable; Bas-fonds; rivage rocheux	L'Étude sur Lamantin L'Étude et suivi de tortue marine	Côteière (GPC) ; UICN ; Ministère de l'agriculture IBAP; Dr. JustinoBIAI; www.ibap-gb.org		Hippopotame ; Requin Pression : Il y a de pression sur la mangrove ;
Congo	PAN du Congo	Malouéki , 2005		PAN du Congo
DRC	PAN, PAS, Profil côtier, Etude d'érosion côtière Theses, memoires	MECNT, CICG, ICCN, UICN, MINAGRI, ACODES	Menace : Lamantin et Hippopotame ;baleine, dauphins Pression : Il y a de pression sur la mangrove. Déforestation, érosion côtière	
Mammals (Chapter 37)				
Ghana				
Distribution and numbers		Prof OforiDanson Dept of Marine and Fisheries Sciences, University of Ghana. ofdan@ug.edu.gh +233 20 8351477 Dr. Entsua-Mensah CSIR		
Status and threats				
Cumulative pressures				
Nigeria				
Distribution and numbers	-Report on the Marine turtle, Manatee distribution - Assessing bycatch of sea turtles and coastal hunting of dolphins (Delphinidae) in the Niger Delta region of Nigeria: status of population and human impacts – -Report Chapter 4. wetland wildlife resources of Nigeria	-Research institutes -Universities -Federal ministries and agencies -individual post.grad projects – -Mr J. Mshelbwala -Dr. Mrs. Ebewele -Dr. Mike Uwagbae -MPO Dore	-Research institutes -Universities -Federal ministries and agencies -individual post.grad projects – -Mr J. Mshelbwala -Dr. Mrs. Ebewele -Dr. Mike Uwagbae -MPO Dore	Detailed information required in this chapter can be identified later.
Mauritania				
Distribution and numbers	Rapports annuels de suivi, Mémoires, rapports sous régionaux.	IMROP, PNBA, PBGP, CBD-habitat, Nejah, Mahfoud Taleb Lemhaba Ahmed Mahmoud Equipe du programme BGP (Fatimatou Ahmed)	Manque de suivi rapproché des cétacés à part les phoques moines.	Beaucoup d'échouage répété au cours de dernières années.
Status and threats	Rapports annuels de suivi, rapports sous régionaux.	IMROP, PNBA, PBGP, CBD-habitat, Nejah.	Manque de suivi rapproché des cétacés à part les phoques moines.	Les menaces : pêches industrielles, exploitation et exploration des gaz et pétrole en offshore.
Cumulative pressures	Rapports annuels de suivi, rapports sous régionaux.	IMROP, PNBA, PBGP, CBD-habitat, Nejah.	Les causes d'échouage ne sont pas bien connues.	
Guinea Bissau				
Distribution and numbers	Il n' y a pas des informations sur cet aspect (source)	Direction Générale de la Forêt et Faune (DGFF); Institute de la Biodiversité et des Aires Protégés (IBAP) ; UICN	-----	-----
Status and threats	Livre rouge de l'UICN; Convention de CITES	Direction Générale de la Forêt et Faune (DGFF); Institute de la Biodiversité et des Aires Protégés (IBAP) ; UICN ; Secretariat de la Convention de CITES	-----	
Cumulative pressures		Direction Générale de la Forêt et Faune (DGFF); Institute de la Biodiversité et des Aires Protégés (IBAP) ; UICN ;		Il y a de pression
Congo				
Distribution and numbers	Plan d'action national	Maloueki 2005		
Status and threats	Rapport d'étude	Dr Joseph Boungou		
Cumulative pressures	Plan d'action National	CharleDoumoungué Mamonekene, 1989		
DRC				
Distribution and numbers		MECNT, CICG, -Jean Paul MwambaNyembo nyembordc@yahoo.fr COPMI, Jean Paul MwambaNyembo nyembordc@yahoo.fr ISP, IFUTA (ifutandey@yahoo.fr) ICCN, walingula@iccn.cd MINAGRIetPeche, Gayo gayowadur@yahoo.fr UNIKIN, ACODES, MINTRP, PERENCO	Menaces : perte des mangroves, pollution pétrolière et gaz -----	-----
Argentina				
Distribution and numbers		Miguel Iriguez (forcetaceal) miguel.iriguez@cethus.org		
Birds (Chapter 38)				
Ghana				
Distribution and numbers	Piersma T & Niijmoo-Baidu Y. Waterbird ecology & the management of coastal wetlands in Ghana. Ghana Wetlands Management Project/Netherlands Institute for Sea Research (NIOZ-Report 1995-6/Ghana Wildlife Society Report.	Prof YaaNiijmoo-Baidu Centre For African Wetlands, Ghana Wildlife Society Prof C. Gordon IESS University of Ghana,Legon. cgordon@ug.edu.gh + 233 02117200		
Status and threats				
Cumulative pressures				
Mauritania				

Distribution and numbers	Rapports de dénombrement annuels, rapports de suivi des nicheurs d'hivernants et des migrateurs, Thèses, Mémoires de Master, rapports des programmes de recherche.	PNBA, PND, PBGP, Ministère de l'environnement. Lemhaba Ahmed Mahmoud Zeinealabidine O/Sidatty Equipe du programme BGP (Fatimatou Ahmed Maaloum)	L'information sur les prédateurs.	La Mauritanie accueille annuellement plus de 3 million des oiseaux répartie sur une centaine d'espèces.
Status and threats	Rapports de dénombrement annuels, rapports de suivi des nicheurs d'hivernants et des migrateurs, Thèses, Mémoires de Master, rapports des programmes de recherche.	PNBA, PND, PBGP, Ministère de l'environnement, CNERV. Lemhaba Ahmed Mahmoud Zeinealabidine O/Sidatty Equipe du programme BGP (Fatimatou Ahmed Maaloum) Bezeid O. Ahmed Elmamy.	Pas de Gaps	
Guinea Bissau				
Distribution and numbers	Rapport annuel de suivi des oiseaux	Cabinet de Planification Côtière (GPC)		
Status and threats		Cabinet de Planification Côtière (GPC)		
Cumulative pressures		Cabinet de Planification Côtière (GPC)		
BirdLife International				
Distribution and numbers	Country Profile, BirdLife Datazone http://www.birdlife.org/datazone/country/ ; State of Africa's Birds report 2013 French and English versions State of the World's Birds report 2013 http://www.birdlife.org/datazone/userfiles/file/sowb/pubs/SOWB2013.pdf Fishpool, L.D.C. and Evans, M. I. (eds) (2001) Important Bird Areas of Africa and associated islands: priority sites for conservation. Newbury/Cambridge, UK: Pisces Publications/BirdLife International. http://www.birdlife.org/datazone/info/ibasaf/ BirdLife International (2002) Important Bird Areas and potential Ramsar Sites in Africa. Cambridge: BirdLife International. BirdLife's marine e-atlas http://maps.birdlife.org/marineIBAs/default.html Seabird tracking database http://www.seabirdtracking.org Sanders, S.M. (ed) (2006) Important Bird Areas in the United Kingdom Overseas Territories. Sandy, UK: Royal Society for the Protection of Birds Ezealor, A.U. (ed) (2002) Critical sites for biodiversity conservation in Nigeria. Nigerian Conservation Foundation Dodman, T., Barlow, C., Sá, J. and Robertson, P. (2004) Zonas importantes para as Aves ne Guiné-Bissau / Important Bird Areas in Guinea-Bissau. Dakar and Bissau: Wetlands International and Gabinete de Planificação Costeira / ODZH Wetlands International (2013). "Waterbird Population Estimates". Retrieved from wpe.wetlands.org on Tuesday 29 Oct 2013. Simon Delany and Derek Scott (Eds). (2006). Waterbird Population Estimates, Fourth edition. VEIT, R. R. (1995). Pelagic communities of seabirds in the South Atlantic Ocean. Ibis, 137: 1-10. doi: 10.1111/j.1474-919X.1995.tb03213.x	mike.evans@birdlife.org ; ademola.ajagbe@birdlife.org tris.allinson@birdlife.org lincoln.fishpool@birdlife.org lincoln.fishpool@birdlife.org ben.lascelles@birdlife.org ben.lascelles@birdlife.org Augustine Ezealor augustine_ezealor@yahoo.com and info@ndnigeria.org Tim Dodman tim@timdodman.co.uk http://wpe.wetlands.org/		
Status and threats	Ditto			
Cumulative pressures	Ditto			
DRC				
Distribution and numbers		; MECNT, CICG, Jean Paul Mwamba Nyembo (nyembordc@yahoo.fr) CCPM, Jean Paul Mwamba Nyembo (nyembordc@yahoo.fr) ISP, IFUTA (ifutandey@yahoo.fr) ICCN, walingula@iccn.cd MINAGRI et Peche, Gayo (gayowadur@yahoo.fr) UNIKIN, ACODES, MINTRP, PERENCO		
Status and threats			Perte des mangroves, pollution	
Cumulative pressures				Peche illégale, pollution, capture accidentelle
Reptiles (Chapter 39)				
Ghana				
Distribution and numbers		Prof. D. Attuquaio Dept of Conservation & Animal Sciences University of Ghana		
Nigeria				
Distribution and numbers	- FAO Report Chapter 4. wetland wildlife resources of Nigeria - - National CITIES endangered species list	- FAO website - Wildlife Division, FMENV	Can be identified later	Required details can be provided later
Guinea Bissau				
Distribution and numbers	Il n'y a pas d'information sur cet aspect	IBAP; UICN		
Status and threats		IBAP; UICN;		
Cumulative pressures		IBAP; UICN		
Congo				
Distribution and numbers	PAN	Guégan, 1992		
Status and threats	Contribuon à la faune du Congo	Descamp et Donskoff en 1968		
DRC				
Distribution and numbers		ACODES, MECNT, CICG, PERENCO		
Sharks (Chapter 40)				
Ghana				

Distribution and numbers		Prof OforiDanson Dept of Marine and Fisheries Sciences, University of Ghana, Legon ofdan@ug.edu.gh + 233 20 8351477		
Status and threats		Mr. E. Aryee Fisheries Commission + 233 208370147		
Cumulative pressures				
Nigeria				
Distribution and numbers	-Initial evidence of dolphin takes in the Niger Delta region and a review of Nigerian cetaceans	-Individual P.G. research paper - Dr. Mike Uwagbae	Can be identified later	Required details can be provided later
Mauritania				
Distribution and numbers	Rapports de suivi de la pêche, Thèses.	IMROP, PNBA, Lemhaba Ahmed Mahmoud Khallahi Brahim	Peu d'information sur la capture de la pêche industrielle surtout la fraction juvénile.	Il y a un grand marché en Asie et en Afrique pour cette ressource.
Status and threats	Rapports de suivi de la pêche, Thèses.	IMROP, PNBA, Lemhaba Ahmed Mahmoud Khallahi Brahim	Pas de gaps	
Cumulative pressures	Rapports de suivi de la pêche, Thèses.	IMROP, PNBA, Lemhaba Ahmed Mahmoud Khallahi Brahim		
Guinea Bissau				
Distribution and numbers	Rapports de suivirequins	CIPA;		
Status and threats	livre rouge de l'UICN;	CIPA		
Cumulative pressures		CIPA; UICN		
Tuna and Billfish (Chapter 41)				
Ghana				
Distribution and numbers		Marine Fisheries Research Division (Fisheries Commission) Mr. E. Aryee Fisheries Commission, Accra + 233 208370147 Dr. F. K. E .Nunoo Dept of Marine & fisheries Sciences University of Ghana, Legon fkennunoo@ug.edu.gh +233242981547		
Status and threats				
Cumulative pressures				
Mauritania				
Distribution and numbers	Rapports de suivi de la pêche.	IMROP Mahfoud Taleb		
Congo				
Status and threats			de la vulnérabilité et desmesures d'adaptation face au E Evaluation changement climatique	Sujet important pour se rendre compte de mouvement des ressources biologiques
DRC				
Distribution and numbers		MINAGRI, MECNT, CICG, CCPM, ISP, UNIKIN		
Corals (cold-deep water) (Chapter 42)				
Guinea Bissau				
Distribution and numbers	Il n' y a pas d'information sur cet aspect (source)	CIPA ; IBAP ; GPC		
Status and threats	Il n' y a pas d'information sur cet aspect (source)	CIPA ; IBAP ; GPC		
Cumulative pressures	Il n' y a pas d'information sur cet aspect	CIPA ; IBAP ; GPC		
Congo				
Distribution and numbers	PAN du Congo	Malouéki	Faire une etudesur les coraux d'eau profonde	
DRC				
Distribution and numbers	Déficit d'information	MECNT, MINAGRI, ACODES, UNIKIN, ISP		
Status and threats	Information incomplete			
Corals (warm – shallow water) (Chapter 43)				
Ghana				
Distribution and numbers		Environmental Protection Agency, Ghana Mr. Daniel Amlalo Environmental Protection Agency, daniel.amlalo@epa.gov.gh + 233 0501301744		
Status and threats				
Cumulative pressures				
Guinea Bissau				
Distribution and numbers	Il n' y a pas d'information sur cet aspect	CIPA ; IBAP ; GPC		
Status and threats		CIPA ; IBAP ; GPC		
Cumulative pressures		CIPA ; IBAP ; GPC		
Congo				
Distribution and numbers	Analyse de la diversité biologique	-Mamonekené1998		

DRC				
Distribution and numbers		MECNT, MINAGRI, ACODES, UNIKIN, ISP		
Estuaries and Deltas (Chapter 44)				
Ghana				
Distribution and numbers	Blay, J. and Asabere-Ameyaw, A. (1993): Assessment of the fishery of a stunted population of the cichlid, <i>Sarotherodon melanocheilus</i> (Rüppel), in a "closed" lagoon in Ghana. <i>Journal of Applied Ichthyology</i> 9: 1-11. Blay, J. Jr. (1998): Occurrence and diversity of juvenile marine fishes in two brackish water systems in Ghana. In: D. S. Amlalo, Atsiatorne, L. D. and Fiati, C. Biodiversity Conservation: Traditional Knowledge and Modern Concepts. Proceedings of the Third UNESCO MAB Regional Seminar on Biosphere Reserves for Biodiversity Conservation and Sustainable Development in Anglophone Africa (BRAAF). PP. 113-119.	Mr. Daniel Amlalo Environmental Protection Agency. daniel_amlalo@epa.gov.gh + 233 0501301744 Mr. A.K. Armah, Dept of Marine and Fisheries Sciences, University of Ghana, Legon akarmah@yahoo.com Prof C. Gordon IESS University of Ghana, Legon cgordon@ug.edu.gh + 233 02117200		
Status and threats				
Cumulative pressures				
Nigeria				
Distribution and numbers	Research Paper- Coastal Challenges And The Challenges Of Coastal Education In Nigeria	-universities -research institutes - D'Alajo - Dr F. Nwosu - IfeyinwaChristabelOkeke		Can be provided later
Mauritania				
Distribution and numbers	Rapports de suivi écologique, rapports sur la biodiversité.	PND, Ministère de l'environnement ZeineAlabdine O. Sidaty	Le suivi actuel ne couvre pas toutes les zones estuariennes.	Zones d'une importance pour les crustacés, la faune sauvage et les grands reptiles et les oiseaux.
Status and threats	Rapports de suivi écologique, rapports sur la biodiversité.	PND, Ministère de l'environnement ZeineAlabdine O. Sidaty	Le suivi actuel ne couvre pas toutes les zones estuariennes.	
Cumulative pressures	Rapports de suivi écologique, rapports sur la biodiversité.	PND, Ministère de l'environnement ZeineAlabdine O. Sidaty	Le suivi actuel ne couvre pas toutes les zones estuariennes.	
Guinea Bissau				
Distribution and numbers	Il n'y a pas d'information sur cet aspect	Direction Générale des Ressources hydriques ; CIPA; IBAP		
Status and threats	Il n'y a pas d'information sur cet aspect	Direction Générale des Ressources hydriques ; CIPA; IBAP		
Cumulative pressures	Il n'y a pas d'information sur cet aspect	Direction Générale des Ressources hydriques ; CIPA; IBAP		
Congo				
Distribution and numbers	Analyse de la diversité biologique	-Mamonekené1998		
DRC				
Distribution and numbers		MECNT, MINAGRI, ACODES, UNIKIN, ISP		
Status and threats		MECNT, MINAGRI, ACODES, UNIKIN, ISP		
Cumulative pressures		Direction Générale des Ressources hydriques ; CIPA; IBAP		
Water column habitat (Chapter 45)				
Ghana				
Distribution and numbers	Yakub, B. H., (2002) Copepods in Ghanaian coastal waters: Abundance & Diversity. Msc Thesis, Depart of Oceanography, The University of Southampton, U.K.			
Status and threats				
Cumulative pressures				
Mauritania				
Distribution and numbers	Rapport de suivi annuels.	IMROP MahfoudTaleb	Manque d'information sur les planctons.	
Status and threats	Rapport de suivi annuels.	IMROP MahfoudTaleb	Manque d'information sur les planctons.	
Cumulative pressures	Rapport de suivi annuels.	IMROP MahfoudTaleb	Manque d'information sur les planctons.	
Guinea Bissau				
Distribution and numbers	Il n'y a pas d'information sur cet aspect	Direction Générale des Ressources Hydriques ; IBAP ; CIPA;		
Status and threats	Il n'y a pas d'information sur cet aspect	Direction Générale des Ressources Hydriques; IBAP; CIPA		
Cumulative pressures	Il n'y a pas d'information sur cet aspect	Direction Générale des Ressources Hydriques ; IBAP ; CIPA		
DRC				
Distribution and numbers	Rapport annuel sur la pêche, rapport monitoring, these et memoire	MECNT, MINAGRI, ACODES, UNIKIN, ISP		
Status and threats		MECNT, MINAGRI, ACODES, UNIKIN, ISP		
Cumulative pressures	Il n'y a pas d'information	MECNT, MINAGRI, ACODES, UNIKIN, ISP		
Hydrothermal vents (Chapter 46)				
DRC				
Distribution and numbers	Nous n'avons pas des eaux thermales			
Status and threats				
Cumulative pressures				
Mauritania				

Distribution and numbers	Rapport de suivienvironnemental.	IMROP MahfoudTaleb Bembaye O. Hamadi HamoudTaleb.	Manque d'information sur la courantologie et la bathymétrie dans certaines zones.	Zones d'uppeweling.
Status and threats	Rapport de suivienvironnemental.	IMROP MahfoudTaleb Bembaye O. Hamadi HamoudTaleb.	Manque d'information sur la courantologie et la bathymétrie dans certaines zones.	
Cumulative pressures	Rapport de suivienvironnemental.	IMROP MahfoudTaleb Bembaye O. Hamadi HamoudTaleb.		
Congo				
Distribution and numbers			Etude à faire faire	
Sea ice (Chapter 47)				
Ghana				
Distribution and numbers				
Status and threats				
Cumulative pressures				
Congo				
Distribution and numbers	PAN	Maloueki , 2005	Distribution and numbers	
Kelp forest (Chapter 48)				
Ghana				
Distribution and numbers				
Status and threats				
Cumulative pressures				
Mangroves (Chapter 49)				
Ghana				
Distribution and numbers		Prof C. Gordon IESS University of Ghana. Legon cgordon@ug.edu.gh + 233 02117200		
Status and threats				
Cumulative pressures				
Nigeria				
Distribution and numbers	-GCLMETDA -GCLME NAP -draft ICAM for Nigeria -Restoration and the Conjunctive Sustainable Management of Native Mangroves and Nypa palms in the Cross River Estuary of Nigeria - The Cross River Estuary Mangrove GCLMERAC on EIMS maps on Nigeria Mangroves -individualPh.D studies - status of Mangrove Swamp in Lagos State. - <i>Quantitative Review and Distribution Status of Mangrove Forest Species in West Africa</i> -Assessment of change in Mangrove ecological zones and socio-economic impacts of the Niger Delta -Implementation Of A Public Awareness And Public Participation Programme In Relation To Mangrove Depletion And Proposed Re-Forestation In Coastal Nigeria	-Universities -Research -GCLMETDA -GCLME/GCC Website - Prof. S. Holzloener -Dr. F. Nwosu -DrAjao -Dr. Mrs. Ebewele - <i>B.AOyebade et al</i> <i>Godstime James et al</i> -GCLMERCU	Required details can be provided later	Required details can be provided later
Mauritania				
Distribution and numbers	Etudes cartographique (1954 – 2007), articles.	PNBA, PND Lemhaba Ahmed Mahmoud Zeinealabidine O. Sidatty		Habitats pour beaucoup de la faune (crabes, priophtalme).
Status and threats	Etudes, articles.	PNBA, PND Lemhaba Ahmed Mahmoud Zeinealabidine O. Sidatty		Espèce endémique au niveau des zones marines.
Guinea Bissau				
Distribution and numbers	Valeurecomique de mangrove	DrAbilioRachid /IBAP		
Status and threats	Sur la pressionantropique	DrAbilioRachid /IBAP		
Cumulative pressures		DrAbilioRachid /IBAP		
Congo				
Distribution and numbers	Rapport Projet mangrove	Piacide Kaya, 2007	Distribution and numbers	
DRC				
Distribution and numbers	PAN, PAS, Profil cotier, rapport, memoires, theses	MECNT, MINAGRI, ACODES, UNIKIN, ISP		
Status and threats			Deforestation, charbonnage	
Salt marsh (Chapter 50)				
Congo				
Distribution and numbers			Faire une etude sur la qualité de l'eau	

Status and threats				
Cumulative pressures				
Sargasso Sea (Chapter 51)				
Mauritania				
Distribution and numbers	Etudes cartographié, Thèses, Mémoires.	PNBA Lemhaba Ahmed Mahmoud Mohamed Ahmed Sidicheikh.	Complément de la cartographie de toutes les zones d'herbiers.	Plus de 1000 km ² Constitue un habitat et source de nourriture préférentiel d'une grande diversité biologique, source de fixation du carbone.
Status and threats	Etudes cartographié, Thèses, Mémoires.	PNBA Lemhaba Ahmed Mahmoud Mohamed Ahmed Sidicheikh.		
Cumulative pressures				
Congo				
Status and threats			Etude à faire pour approfondir la connaissance	
Seamounts and other seafloor features (Chapter 52)				
Distribution and numbers				
Status and threats				
Cumulative pressures				