

# Analysis of existing marine assessments in the South West Pacific

For the United Nations Regional Regular Process workshop, Brisbane Australia, 25<sup>th</sup> to 27<sup>th</sup> February, 2013.

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## Wealth From Oceans

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# Acknowledgments

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# 1 Introduction

The Pacific Ocean, covering one-third of the world's surface, is not only the Earth's largest ocean but also hosts the greatest marine biodiversity on our planet. As a result of this biological diversity and high productivity, commercial fisheries and other valuable natural resources such as oil, deep sea mineral deposits and pharmaceutical constituents are abundant offshore. Ecosystem services such as coastal protection, artisanal fisheries, aquaculture, and tourism are supported inshore and provide significant income for local communities. These resources are therefore essential to human livelihoods of Pacific island peoples as well as the global community. Contrasted against this, human pressure on the Pacific Ocean and its resources is increasing and there is a need to chart a sustainable future.

Assessing ecosystem condition of the marine and coastal habitats of the southwest Pacific can inform policy setting and decision making for sustainable management of these extensive natural resources, essential for maintaining livelihoods of Pacific island peoples. Pacific island countries have requested this information to support national marine management, as a result this is a key component of the 2011-2015 strategic plan of the Secretariat of the Pacific Regional Environment Programme (SPREP), and is a component of the Pacific Oceanscape Framework, a visioning document to implement better and more fully integrated management of the Pacific Ocean. The southwest Pacific input within the global marine assessment of the UN Regular Process can provide additional input and support to these regional and national marine management processes.

The report summarizes the available assessments and current knowledge on immediate and long-term concerns and threats to the southwest Pacific coastal and marine ecosystems, providing input to the UN Regular Process (UNRP) and the determination of knowledge gaps requiring specific focus in the future development of the UNRP.

## 2 Methodology

The preparatory report is based on a survey of literature and assessments undertaken in February 2013 to support the UN regional regular process workshop. When compiling the database of assessments major national and international organisations were identified and the most recent assessments were sourced. The report is focused on recent assessments, particularly those undertaken after the initial Assessment of Assessments. The completed template presented in Annex C.1 will be used as an informative tool to make the first appraisal of progress in the assessment procedures across the southern Pacific and assess current uncertainties and gaps in scientific knowledge.

The method relied on a regional approach to identifying assessments that can meet one or more of the key assessment topics, biophysical, food security and safety, socioeconomic and marine biological diversity. Due to the time available, the initial data base and report focuses on broad scale region and global assessments at the expense of identifying national assessments. Using the initial assessment as a starting point, institutions conducting assessments were identified and recent assessments were sourced. As in the initial assessment, Australia, New Zealand and the United States produce significant reports dealing with biophysical and marine biological aspects. These are National State of the Environment reports, coupled with significant data holdings on the physical state of the current and future oceans. The majority of reports dealing with food security are derived from fisheries and are sourced from the intergovernmental fisheries agencies (eg SPC, FAO and WCPFC). A major source of socioeconomic data is the PRISM database, maintained by SPC and the reports produced by ESCAP. UNEP has also produced reports dealing with pollutants for the Pacific Ocean.

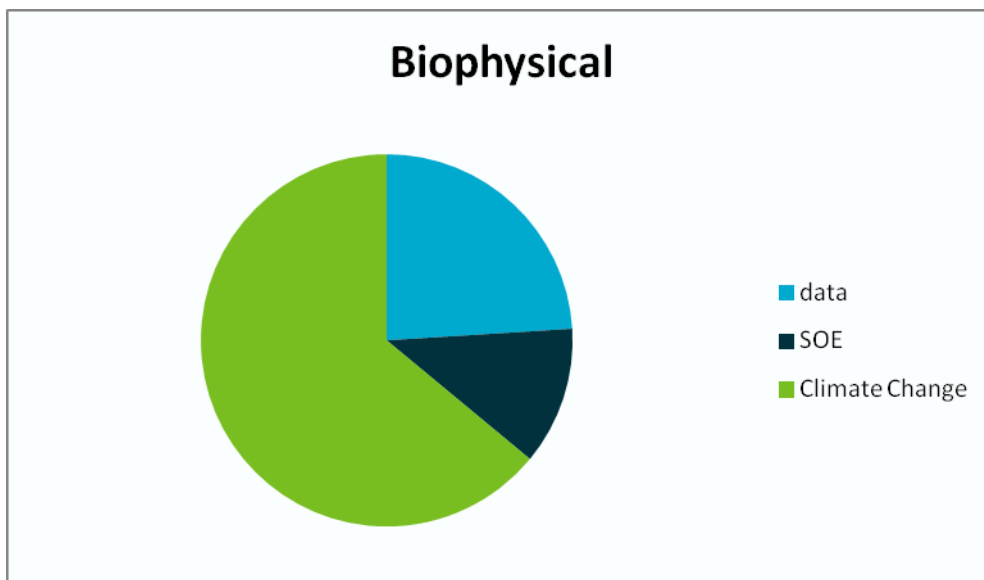
The preparatory report was used by participants at the workshop to begin the process of identifying reports, data and information that can be used in the Assessment of Assessments'. The final report presents the results each of the workshop groups and the suggested reports and contacts for the authors of the Assessment.

The body of this report is broken into four parts, one for each topic of the assessment. The reports, assessments and data relevant to each topic have been identified and listed in a table in each section, grouped into preliminary topics. It should be noted that there is often considerable overlap between topics and the reports listed in each section should be regarded as preliminary only. For example, state of the environment reports tend to cover both biological and physical aspects of the environment and should be considered in both topics. The report does not contain the full list of assessments identified and annex 1 should be consulted when undertaking the final assessment.

### 3 Summary of the Preparatory Report.

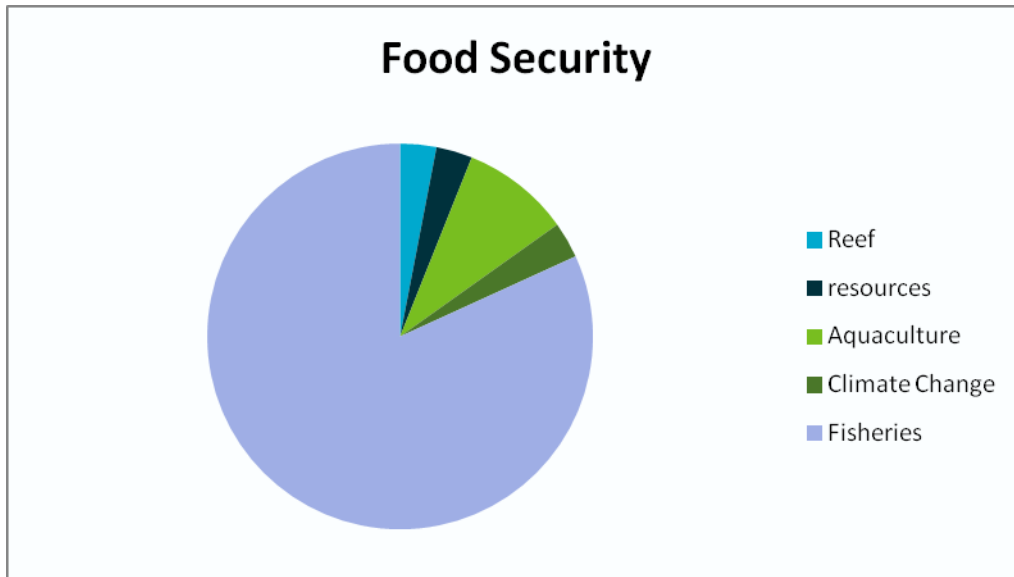
The preparatory report was used as the starting point for the workshop. It listed 182 different reports and data sets that could be used in the Assessment of Assessments. The preparatory report was broken into four sections, corresponding to the working groups for the UNRRP workshop.

A total of 22 assessments were identified in the preliminary work to inform discussion on the biophysical aspects of the South West Pacific. By the nature of biophysical systems, the assessments all deal with region or global scale analyses. Some of these assessments are data portals that provide access to national and regional climatologies such as sea surface temperature and salinity (eg the Australian Ocean Data Network & the NODC ocean archive system). A significant number of assessments deal with climate change, particularly the Pacific Climate change data portal, which houses the assessment for the south Pacific and associated data.

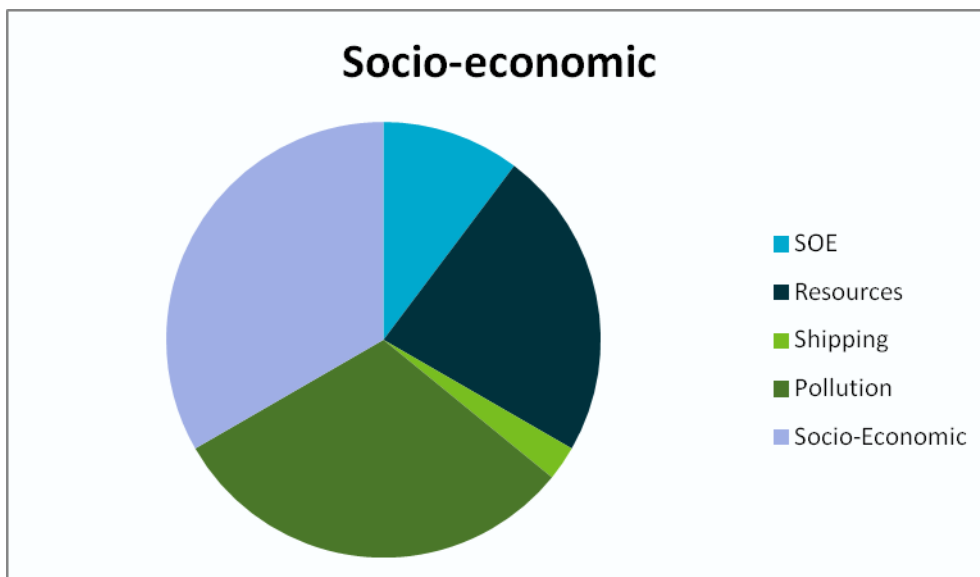


A total of 18 assessments dealt with food security and safety aspects. The majority of these reports deal with fisheries. Three reports are focused at a national scale, the United States, Cook Islands and Solomon Islands. Most of the assessments are at a regional scale, dealing with the status of regional migratory species such as Tuna. Data and reports from the Secretariat of the Pacific Community (SPC) and the Western Central Pacific Fisheries Commission (WCPFC) are important indicators of the stocks of status of important food and income sources. A number of technical reports from FAO put the status of Pacific stocks, by catch indicators and mariculture in a global context.



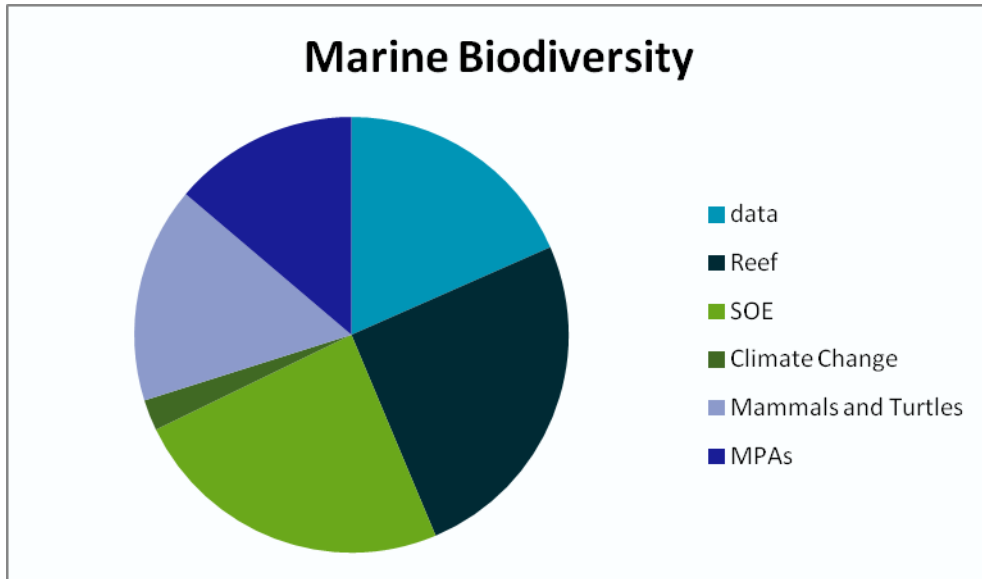


A total of 23 of the assessments dealt with the socioeconomic aspects of the south west Pacific Ocean. A number are global analyses that deal with different aspects of pollution and shipping. The reports on pollution are UNEP publications that detail the status of different pollutants in the worlds oceans. Several of the reports are produced by the UN Economic and Social Commission for Asia and the Pacific and deal with the state of the environment and the status of economic growth and sustainability. There are also reports for UNEP that include aspects of sustainable growth. Finally, there are the reports that detail the natural resources of the region and specific countries, including population demographics.

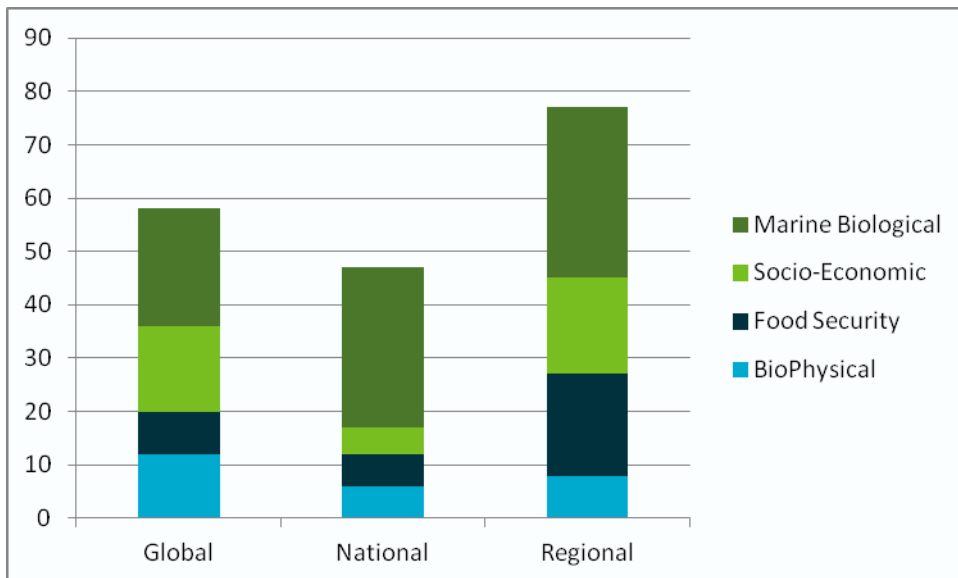


The largest groups of assessments identified dealt with marine biological diversity aspects. This has the largest number of identified assessments, with a total of 49 identified in the initial summary of assessments. The largest numbers of assessments detail State of the Environment Reports for the region and for individual PICTS. These deal with either the whole of the environment or with specific species or components of ecosystems. There are also a large number of assessments describing the status of reef ecosystems for particular PICTS and the Global Coral Reef Monitoring Networks also produces a global assessment of the status of reefs. There are also reports detailing the status and management of MPA networks,

cetaceans and turtles. Finally, there are significant data collections that have occurred in the region and are available on the internet.



The reports were summarised by working group topic and spatial scale. Regional reports were the most common (77 reports) for all topics except biophysical. This is a consequence of the number of global climate reports. There were 47 national reports and 58 global reports.



## 4 Inventory of Assessments

This inventory of assessments should be read in conjunction with the completed templates from the workshop in section 5 of this report. These templates identify additional information of relevance to the development of a Global Marine Assessment, including further information sources, organisations that may be well positioned to contribute to particular aspects, and observations pertinent to the development of regional input into the Global Marine Assessment.

### Biophysical aspects

Name of Assessment:	Full Reference:	Full Text Reports/Output URL:	Classification/Type of Activity:	Group	Organisation:
Climate change and the Great Barrier Reef: a vulnerability assessment	Johnson JE, Marshall PA (editors) (2007) Climate change and the Great Barrier Reef. Great Barrier Reef Marine Park Authority and Australian Greenhouse Office, Australia	<a href="http://www.gbrmpa.gov.au/resources-and-publications/publications/climate-change-and-the-great-barrier-reef-a-vulnerability-assessment">http://www.gbrmpa.gov.au/resources-and-publications/publications/climate-change-and-the-great-barrier-reef-a-vulnerability-assessment</a>	within country assessment	Climate Change	Great Barrier Reef Marine Park Authority and Australian Greenhouse Office
Pacific climate change data portal		<a href="http://www.bom.gov.au/climate/pccsp/">http://www.bom.gov.au/climate/pccsp/</a>	data holding	Climate Change	Bureau of Meteorology
State of the Climate 2012	CSIRO and the Bureau of Meteorology (2012) State of the Climate 2012. CSIRO and the Bureau of Meteorology, Australia	<a href="http://www.bom.gov.au/inside/publications.shtml">http://www.bom.gov.au/inside/publications.shtml</a>	national assessment	Climate Change	CSIRO and the Bureau of Meteorology
Intergovernmental Panel on Climate Change Fourth Assessment Report	Solomon S, Qin D, Manning M, Chen Z, Marquis M, Averyt KB, Tignor M, Miller HL (eds) (2007) Contribution of working group I to the fourth assessment report of the Intergovernmental Panel on Climate Change, 2007. Cambridge University Press, Cambridge.	<a href="http://www.ipcc.ch/publications_and_data/publications_and_data_reports.shtml#1">http://www.ipcc.ch/publications_and_data/publications_and_data_reports.shtml#1</a>	global assessment	Climate Change	IPCC

National Adaptation Plan of Action		<a href="http://unfccc.int/national_reports/napa/items/2719.php">http://unfccc.int/national_reports/napa/items/2719.php</a>	national assessment	Climate Change	Individual countries with GEF, UNDP and UNFCCC
Implications of expected climate changes in the South Pacific region: an overview	Pernetta JC and Hughes PJ (eds) (1990) Implications of expected climate changes in the South Pacific region: an overview. UNEP Regional Sea Reports and Studies No 128. United Nations Environment Program, Nairobi.	<a href="http://www.unep.org/regionalseas/Publications/Reports/RSRS/">http://www.unep.org/regionalseas/Publications/Reports/RSRS/</a>	regional assessment	Climate Change	UNEP
Coping with climate change in the Pacific Island region. Sector report: adaptation to climate change related to marine- and land-based natural resources	Chapman L, Künkel N (2010) Coping with climate change in the Pacific Island region. Sector report: adaptation to climate change related to marine- and land-based natural resources. Secretariat of the Pacific Community and Gesellschaft für Technische Zusammenarbeit GmbH, Suva.	<a href="http://www.sprep.org/att/irc/ecopies/pacific_region/671.pdf">http://www.sprep.org/att/irc/ecopies/pacific_region/671.pdf</a>		Climate Change	SPC/GTZ
The Pacific climate change science program climate futures	Clarke JM, Whetton PH, Hennessy KJ (2011) Providing Application-specific Climate Projections Datasets: CSIRO's Climate Futures Framework. Pages 2683-2690 in F Chan, D Marinova and RS Anderssen (eds.) MODSIM2011, 19th International Congress on Modelling and Simulation. Perth, Western Australia. December 2011. Modelling and Simulation Society of Australia and New Zealand.	<a href="http://www.pacificclimatefutures.net/main/">http://www.pacificclimatefutures.net/main/</a>	web based information tool	Climate Change	CSIRO Marine & Atmospheric Research
Vulnerability of tropical Pacific fisheries and aquaculture to climate change	Bell JD, Johnson JE, Hobday AH (eds) (2011) Vulnerability of tropical Pacific fisheries and aquaculture to climate change. Secretariat of the Pacific Community, Noumea.	<a href="http://www.spc.int/climate-change/fisheries/assessment/">http://www.spc.int/climate-change/fisheries/assessment/</a>	regional assessment	Climate Change	Secretariat of the Pacific Community

Marine climate change impacts and adaptation report card for Australia 2012	Poloczanska ES, Hobday AJ, Richardson AJ (eds) (2012) Marine climate change impacts and adaptation report card for Australia 2012.	<a href="http://www.oceanclimatechange.org.au">http://www.oceanclimatechange.org.au</a>	national assessment	Climate Change	Australian Government Department of Climate Change and Energy Efficiency
Projected climate change in Australian marine and freshwater environments  Climate and oceanic fisheries: recent observations and projections and future needs	Hobday AJ, Lough JM (2011) Projected climate change in Australian marine and freshwater environments. Marine and Freshwater Research 62: 1000-1014.  Salinger J, Bell J, Evans K, Hobday AJ, Allain V, Brander K, Dexter P, Harrison DE, Hollowed AB, Lee B, Stefanski R (2012). Climate and oceanic fisheries: recent observations and projections and future needs. Climatic Change. Published online December 2012. doi: 10.1007/s10584-012-0652-9.	<a href="http://www.publish.csiro.au/nid/126.htm">http://www.publish.csiro.au/nid/126.htm</a>  <a href="http://www.springer.com/earth+sciences+and+geography/atmospheric+sciences/journal/10584">http://www.springer.com/earth+sciences+and+geography/atmospheric+sciences/journal/10584</a>	journal article  journal article	Climate Change  Climate Change	CSIRO Marine & Atmospheric Research  Stanford University
Pacific Island mangroves in a changing climate and rising sea	Gilman E, Van Lavieren H, Ellison J, Jungblut V, Wilson L, Areki F, Brighthouse G, Bungitak J, Dus E, Henry M, Sauni I, Kilman M, Metthews E, Teariki-Ruatu N, Tukia S, Yuknavage K (2006) Pacific Island mangroves in a changing climate and rising sea. UNEP Regional Seas Reports and Studies No 179. United Nations Environment Programme, Nairobi.	<a href="http://wpcouncil.org/library.html">http://wpcouncil.org/library.html</a>	regional assessment	Climate Change	UNEP
Sea-level rise and variability. A summary for policy makers	Aarup T, Church JA, Wilson WS, Woodworth PL (eds) (2010) Sea-level rise and variability. A summary for policy makers. UNESCO-IOC, Paris.	<a href="http://unesdoc.unesco.org/images/0018/001893/189369e.pdf">http://unesdoc.unesco.org/images/0018/001893/189369e.pdf</a>	global assessment	Climate Change	UNESCO-IOC

Ocean acidification - a summary for policymakers from the Second Symposium on the Ocean in a High-CO2 World	Hood M, Broadgate W, Urban E, Gaffley O (2009) Ocean acidification - a summary for policymakers from the Second Symposium on the Ocean in a High-CO2 World. UNESCO-IOC, Paris	<a href="http://www.ocean-acidification.net/OAdocs/SPM-lorezv2.pdf">http://www.ocean-acidification.net/OAdocs/SPM-lorezv2.pdf</a>	global assessment	Climate Change	UNESCO-IOC
Pacific Islands Climate Change Cooperative 2010 report	PICC (2011) Pacific Islands Climate Change Cooperative 2010 report. Pacific Islands Climate Change Cooperative Honolulu.	<a href="http://www.iucn.org/about/union/secretariat/offices/oceania/oceania_resources_and_publications/?7411/Pacific-Islands-Climate-Change-Cooperative-2010-Annual-Report">http://www.iucn.org/about/union/secretariat/offices/oceania/oceania_resources_and_publications/?7411/Pacific-Islands-Climate-Change-Cooperative-2010-Annual-Report</a>	regional assessment	Climate Change	PICCC
Marine and Ocean		<a href="http://www.bom.gov.au/marine/index.shtml">http://www.bom.gov.au/marine/index.shtml</a>	data holding	data	Bureau of Meteorology
Pacific tropical cyclone data portal		<a href="http://www.bom.gov.au/cyclone/history/tracks/">http://www.bom.gov.au/cyclone/history/tracks/</a>	data holding	data	Bureau of Meteorology
Global mean sea level		<a href="http://geodata.grid.unep.ch/options.php?selectedID=1933&amp;selectedDatasettype=17">http://geodata.grid.unep.ch/options.php?selectedID=1933&amp;selectedDatasettype=17</a>	data holding	data	CSIRO Marine & Atmospheric Research
ETOPO1 bathymetric data	Amante C, Eakins BW (2009) ETOP1 1 Arc-Minute Global Relief Model: procedures, data sources and analysis. NOAA Technical Memorandum NESDIS NGDC-24. NGDC Boulder.	<a href="http://www.ngdc.noaa.gov/mgg/global/global.html">http://www.ngdc.noaa.gov/mgg/global/global.html</a>	data holding	data	National Geophysical Data Center, NOAA
NODC Ocean archive system		<a href="http://www.nodc.noaa.gov/General/getdata.html">http://www.nodc.noaa.gov/General/getdata.html</a>	data holding	data	National Oceanographic Data Center, NOAA
The global ocean observing system - a summary for policy makers	IOC/UNESCO (2009) The Global Ocean Observing System – A Summary for Policy Makers. UNESCO-IOC, Paris.	<a href="http://unesdoc.unesco.org/images/0018/001856/185696e.pdf">http://unesdoc.unesco.org/images/0018/001856/185696e.pdf</a>	global assessment	data	UNESCO-IOC

GESAMP: atmospheric input of trace species to the world oceans	GESAMP (1989) GESAMP: atmospheric input of trace species to the world oceans. UNEP Regional Seas Reports and Studies No. 119. GESAMP Reports and Studies No. 38. United Nations Environment Program, Nairobi.	<a href="http://www.unep.org/regionalseas/Publications/Reports/RSRS/">http://www.unep.org/regionalseas/Publications/Reports/RSRS/</a>	global assessment	SOE	UNEP/GESAMP
Ocean fertilisation. A scientific summary for policy makers	Wallace DWR, Law CS, Boyd PW, Collos Y, Croot P, Denman K, Lam PJ, Riebesell U, Takeda S, Williamson P (2010) Ocean fertilisation. A scientific summary for policy makers. UNESCO-IOC, Paris.	<a href="http://unesdoc.unesco.org/images/0019/001906/190674e.pdf">http://unesdoc.unesco.org/images/0019/001906/190674e.pdf</a>	global assessment	SOE	UNESCO-IOC
The management of natural coastal carbon sinks	Laffoley D d'A, Grimsditch G (eds) (2009) The management of natural coastal carbon sinks. IUCN, Gland.	<a href="http://www.iucn.org/about/union/secretariat/offices/oceania/oceania_resources_and_publications/?4212/The-Management-of-Natural-Coastal-Carbon-Sinks">http://www.iucn.org/about/union/secretariat/offices/oceania/oceania_resources_and_publications/?4212/The-Management-of-Natural-Coastal-Carbon-Sinks</a>	global assessment	SOE	IUCN
Climate change and the new Zealand marine environment	Willis et al (2007). Climate change and the new Zealand marine environment. Prepared for the Department of Conservation. NIWA Client Report: NEL2007-025	<a href="http://www.niwa.co.nz/sites/default/files/import/attachments/CC_report_final_Dec-07.pdf">http://www.niwa.co.nz/sites/default/files/import/attachments/CC_report_final_Dec-07.pdf</a>		1	

## Food Security aspects

Name of Assessment:	Full Reference:	Full Text Reports/Output URL:	Classification/Type of Activity:	group	Organisation:
Integrated mariculture. A global review.	Soto D (ed) (2009) Integrated mariculture. A global review. FAO Fisheries and Aquaculture Technical Paper No 529. FAO, Rome.	<a href="http://www.fao.org/fishery/publications/technical-papers/en">http://www.fao.org/fishery/publications/technical-papers/en</a>	global assessment	Aquaculture	FAO
Samoa aquaculture management and development plan	Anon (2012) Samoa aquaculture management and development plan 2013-2018. Secretariat of the Pacific Community, Noumea.	<a href="http://www.spc.int/fame/en/fame-digital-library">http://www.spc.int/fame/en/fame-digital-library</a>	national plan	Aquaculture	Secretariat of the Pacific Community

The Ecosystem Approach to Coastal Fisheries and Aquaculture in Pacific Island Countries and Territories	Preston GL (2009) The Ecosystem Approach to Coastal Fisheries and Aquaculture in Pacific Island Countries and Territories. Secretariat of the Pacific Community, Noumea.	<a href="http://www.spc.int/coastfish/en/publications/digital-library.html">http://www.spc.int/coastfish/en/publications/digital-library.html</a>	regional assessment	Aquaculture	Secretariat of the Pacific Community
Climate change implications for fisheries and aquaculture. Overview of current scientific knowledge.	Cochrane K, De Young C, Soto D, Bahri T (eds) (2009) Climate change implications for fisheries and aquaculture: overview of current scientific knowledge. FAO Fisheries and Aquaculture Technical Paper No 530. FAO, Rome	<a href="http://www.fao.org/fishery/publications/technical-papers/en">http://www.fao.org/fishery/publications/technical-papers/en</a>	global assessment	Climate Change	FAO
Pacific Island bottomfish assessments	Brodziak J, Courtney D, Wagatsuma L, O'Malley J, Lee H-H, Wash W, Andrews A, Humphreys R, DiNardo G (2011) Stock assessment of the main Hawaiian Islands deep7 bottomfish complex through 2010. NOAA Technical Memorandum NMFS-PIFSC-29. US Department of Commerce, Honolulu.	<a href="http://www.pifsc.noaa.gov/bottomfish/index.php">http://www.pifsc.noaa.gov/bottomfish/index.php</a>	national assessment	Fisheries	NOAA
Aggregated catch and effort data for driftnet, longline, pole and line and purse seine fisheries		<a href="http://www.wcpfc.int/science-and-scientific-data-functions/public-domain-data">http://www.wcpfc.int/science-and-scientific-data-functions/public-domain-data</a>	data holding	Fisheries	Western and Central Pacific Fisheries Commission
2011 Tuna Fishery Yearbook	Secretariat of the Pacific Community (2012) Western and Central Fisheries Commission tuna fishery yearbook 2011. Western and Central Fisheries Commission, Pohnpei.	<a href="http://www.wcpfc.int/node/1759">http://www.wcpfc.int/node/1759</a>	regional catch statistics	Fisheries	Secretariat of the Pacific Community
Regional tuna fisheries databases		<a href="http://www.spc.int/OceanFish/en/ofpsection/data-management/spc-members/dd/125-regional-tuna-fisheries-databases">http://www.spc.int/OceanFish/en/ofpsection/data-management/spc-members/dd/125-regional-tuna-fisheries-databases</a>	data holding	Fisheries	Secretariat of the Pacific Community
Bycatch mitigation information system		<a href="http://bmis.wcpfc.int/">http://bmis.wcpfc.int/</a>	data/information holding	Fisheries	Western and Central Pacific Fisheries Commission
An ecological risk assessment for species	Kirby DS (2006) Ecological risk assessment for species caught in WCPO	<a href="http://www.wcpfc.int/doc/eb-wp-1/ecological-risk-assessment-species-caught-">http://www.wcpfc.int/doc/eb-wp-1/ecological-risk-assessment-species-caught-</a>	regional assessment	Fisheries	Secretariat of the Pacific



caught in the WCPO longline and purse seine fisheries	tuna fisheries: inherent risk as determined by productivity-susceptability analysis. Paper SC2_EB-WP1 presented to the Western and Central Pacific Fisheries Commission Scientific Committee meeting, Manila 7-18 August 2006	wcpo-longline-and-purse-seine-fisheries			Community
Fishery and Aquaculture Statistics 2010	Statistics and Information Service of the Fisheries and Aquaculture Department (2012) FAO yearbook. Fishery and Aquaculture Statistics 2010. FAO, Rome.	<a href="http://www.fao.org/fishery/statistics/en">http://www.fao.org/fishery/statistics/en</a>	data holding	Fisheries	FAO
The state of world fisheries and aquaculture	FAO Fisheries and Agriculture Department (2012) The state of world fisheries and aquaculture 2012. FAO, Rome.	<a href="http://www.fao.org/fishery/publications/sofia/en">http://www.fao.org/fishery/publications/sofia/en</a>	global assessment	Fisheries	FAO
Bycatch in small-scale tuna fisheries. A global study	Gillett R (2011) Bycatch in small-scale tuna fisheries. A global study. FAO Fisheries and Aquaculture Technical Paper No 560. FAO, Rome	<a href="http://www.fao.org/fishery/publications/technical-papers/en">http://www.fao.org/fishery/publications/technical-papers/en</a>	global assessment	Fisheries	FAO
Review of the state of world marine fishery resources	FAO (2011) Review of the state of world marine fishery resources. FAO Fisheries and Aquaculture Technical Paper No. 569. FAO, Rome.	<a href="http://www.fao.org/fishery/publications/technical-papers/en">http://www.fao.org/fishery/publications/technical-papers/en</a>	global assessment	Fisheries	FAO
Recent developments in the tuna industry. Stocks, fisheries, management, processing, trade and markets	Miyake MP, Guillotreau P, Sun C-H, Ishimura G (2010) Recent developments in the tuna industry. Stocks, fisheries, management, processing, trade and markets. FAO Fisheries and Aquaculture Technical Paper No. 543. FAO, Rome.	<a href="http://www.fao.org/fishery/publications/technical-papers/en">http://www.fao.org/fishery/publications/technical-papers/en</a>	global assessment	Fisheries	FAO
Marine fishery resources of the Pacific Islands	Gillet R (2010) Marine fishery resources of the Pacific Islands. FAO Fisheries and Aquaculture Technical Paper 537. FAO, Rome.	<a href="http://www.fao.org/fishery/publications/technical-papers/en">http://www.fao.org/fishery/publications/technical-papers/en</a>	regional assessment	Fisheries	FAO
Abundance of commercially important species of invertebrates, fish and the status of coral	Tafea H, Bebeu T (2007) Gela tambo areas monitoring report	<a href="http://www.sprep.org/att/IRC/eCOPIES/global/467.pdf">http://www.sprep.org/att/IRC/eCOPIES/global/467.pdf</a> <a href="http://sanctuaries.noaa.gov/science/conservation/pdfs/nceas.pdf">http://sanctuaries.noaa.gov/science/conservation/pdfs/nceas.pdf</a>	within country assessment	Fisheries	Ministry of Fisheries and Marine Resources (MFMR),

health in community based marine protected areas in Gela, Central Province, Solomon Islands					Foundation of the People of the South Pacific International (FSPI), Government Minsitries, NGOs, Village Demonstration Worker (VDW) for Gela project sites and village communities
Cook Islands Fisheries Resources Profiles	Cook Islands Ministry of Marine Resources (1993) Cook Islands Fisheries Resources Profiles. FFA Report 93/25. Forum Fisheries Agency, Honiara.	<a href="http://www.sprep.org/att/irc/ecopies/countries/cook_islands/66.pdf">http://www.sprep.org/att/irc/ecopies/countries/cook_islands/66.pdf</a>	national assessment	Fisheries	Forum Fisheries Agency
Nuie sustainable coastal fisheries pilot project: marine baseline survey	Fisk D (2007) Nuie sustainable coastal fisheries pilot project: marine baseline survey. SPREP, Apia.	<a href="http://www.sprep.org/att/publication/000545_IWP_PTR39.pdf">http://www.sprep.org/att/publication/000545_IWP_PTR39.pdf</a>	national assessment	Fisheries	SPREP
Planning the use of fish for food security in the Pacific	Bell JD, Kronen M, Vunisea A, Nash WJ, Keeble G, Demmke A, Pontifex S, Andrefouet S (2009) Planning the use of fish for food security in the Pacific. Marine Policy 33: 64-76.	<a href="http://www.journals.elsevier.com/marine-policy/">http://www.journals.elsevier.com/marine-policy/</a>	journal article	Fisheries	Secretariat of the Pacific Community
Projected changes in the tropical Pacific Ocean of importance to tuna fisheries	Ganachaud A, Sen Gupta A, Brown JN, Evans, K, Maes C, Muir LC, Graham FS (2012) Projected changes in the tropical Pacific Ocean of importance to tuna fisheries. Climatic Change. Published online November 2012. doi: 10.1007/s10584-012-0631-1.	<a href="http://www.springer.com/earth+sciences+and+geography/atmospheric+sciences/journal/10584">http://www.springer.com/earth+sciences+and+geography/atmospheric+sciences/journal/10584</a>	journal article	Fisheries	Institut de Recherche pour le Développement
Western and Central Pacific Fisheries Commission Scientific Committee papers	Western and Central Pacific Fisheries Commission Scientific Committee papers	<a href="http://www.wcpfc.int/meetings/2">http://www.wcpfc.int/meetings/2</a>	RFMO scientific paper depository	Fisheries	Western and Central Pacific Fisheries Commission
Data Submitted to the	Interim Secretariat (2013) Data	<a href="http://www.southpacificrfmo.org/data/">http://www.southpacificrfmo.org/data/</a>	RFMO scientific paper	Fisheries	South Pacific

Interim Secretariat as at 20 Jan 2013	submitted to the Interim Secretariat as at 20 Jan 2013. Paper COMM-01-INF-07 submitted to the 1st meeting of the Commission, Auckland, New Zealand 28 January - 1 February 2013.				Regional Fisheries Management Organisation
SPC coastal and oceanic fisheries digital library	Magron F (2007) SPC coastal and oceanic fisheries digital library. SPC Fisheries Newsletter 122, Secretariat of the Pacific Community, Noumea.	<a href="http://www.spc.int/coastfish/en/publications/digital-library.html">http://www.spc.int/coastfish/en/publications/digital-library.html</a>	publications database	Fisheries	Secretariat of the Pacific Community
Strategic plan for fisheries management and sustainable coastal fisheries in Pacific Islands	King M, Fa'asili U, Fakahau S, Vunisea A (2004) Strategic plan for fisheries management and sustainable coastal fisheries in Pacific Islands. Secretariat of the Pacific Community, Noumea.	<a href="http://www.spc.int/coastfish/en/publications/digital-library.html">http://www.spc.int/coastfish/en/publications/digital-library.html</a>	regional assessment	Fisheries	Secretariat of the Pacific Community
Coastal shark fisheries in the Pacific: a brief overview of current knowledge	Juncker M (2006) Coastal shark fisheries in the Pacific: a brief overview of current knowledge. Coral Reef Initiatives for the Pacific (CRISP), Noumea.	<a href="http://www.spc.int/coastfish/en/publications/digital-library.html">http://www.spc.int/coastfish/en/publications/digital-library.html</a>	regional assessment	Fisheries	CRISP
Pacific Islands regional coastal fisheries management policy and strategic actions (Apia policy) (2008-2013)	Anon. 2008. Pacific islands regional coastal fisheries management policy and strategic actions: (Apia policy) (2008-2013). Secretariat of the Pacific Community, Noumea.	<a href="http://www.spc.int/coastfish/en/publications/digital-library.html">http://www.spc.int/coastfish/en/publications/digital-library.html</a>	regional action plan	Fisheries	Secretariat of the Pacific Community
Western Pacific region reef fish trends	Luck D, Dalzell P (2010) Western Pacific region reef fish trends. A compendium of ecological and fishery statistics for reef fishes in American Samoa, Hawai'i and the Mariana Archipelago in support of annual catch limit (ACL) implementation. Western Pacific Regional Fishery Management Council, Honolulu.	<a href="http://wpcouncil.org/library.html">http://wpcouncil.org/library.html</a>	regional assessment	Fisheries	Western Pacific Regional Fishery Management Council
SPC publications		<a href="http://www.spc.int/en/featured-publications.html">http://www.spc.int/en/featured-publications.html</a>	publications database	Fisheries	Secretariat of the Pacific Community
Compliance and enforcement for coastal	Minter A (2008) Compliance and enforcement for coastal fisheries	<a href="http://www.iucn.org/about/union/secretariat/offices/oceania/oceania_resources_and_pub">http://www.iucn.org/about/union/secretariat/offices/oceania/oceania_resources_and_pub</a>	national assessment	Fisheries	IUCN

fisheries management in Fiji	management in Fiji. IUCN, Suva.	lications/?6916/Compliance-and-Enforcement-for-Coastal-Fisheries-Management--in-Fiji			
Effects of pelagic longline fishing on seamount ecosystems based on interviews with Pacific Island fishers	Passfield K, Gilman E (2010) Effects of pelagic Longline fishing on seamount ecosystems based on interviews with Pacific Island fishers. IUCN, Suva.	<a href="http://www.iucn.org/about/union/secretariat/offices/oceania/oceania_resources_and_publications/?6789/pelagic-fisher-survey">http://www.iucn.org/about/union/secretariat/offices/oceania/oceania_resources_and_publications/?6789/pelagic-fisher-survey</a>	regional assessment	Fisheries	IUCN
Reef fisheries portal		<a href="http://www.reefbase.org/reeffisheries/publications.aspx">http://www.reefbase.org/reeffisheries/publications.aspx</a>	publications database	Reef	ReefBase
Pacific Islands Marine Portal	Pacific Islands Marine Portal of the Pacific Islands Marine Resources Information System (PIMRIS)	<a href="http://www.pimrisportal.org">http://www.pimrisportal.org</a>	data/information holding	resources	University of the South Pacific
MFish Plenary reports: stock status of our commercial fisheries and QMS species	MFish Plenary reports: stock status of our commercial fisheries and QMS species. 4 reports from 2012.	<a href="http://fs.fish.govt.nz/Page.aspx?pk=61&amp;tk=212">http://fs.fish.govt.nz/Page.aspx?pk=61&amp;tk=212</a>		2	
The State of Our Fisheries 2008	The State of our Fisheries 2008	<a href="http://www.fish.govt.nz/NR/rdonlyres/87304079-4450-4025-9B08-37E036C56768/0/thestateofourfisheries2008.pdf">http://www.fish.govt.nz/NR/rdonlyres/87304079-4450-4025-9B08-37E036C56768/0/thestateofourfisheries2008.pdf</a>		2	
Fisheries 2030, the NZ Biodiversity Strategy	like Fisheries 2030, the NZ Biodiversity Strategy (A review: Green & Clarkson 2006).	<a href="http://www.doc.govt.nz/publications/conservation/a-review-of-the-first-five-years-of-the-nz-biodiversity-strategy/">http://www.doc.govt.nz/publications/conservation/a-review-of-the-first-five-years-of-the-nz-biodiversity-strategy/</a> , ( <a href="http://www.doc.govt.nz/publications/conservation/marine-and-coastal/new-zealand-coastal-policy-statement/new-zealand-coastal-policy-statement-2010/">http://www.doc.govt.nz/publications/conservation/marine-and-coastal/new-zealand-coastal-policy-statement/new-zealand-coastal-policy-statement-2010/</a> ; <a href="http://www.doc.govt.nz/publications/conservation/marine-and-coastal/new-zealand-coastal-policy-statement/new-zealand-coastal-policy-statement-2010-national-implementation-plan/">http://www.doc.govt.nz/publications/conservation/marine-and-coastal/new-zealand-coastal-policy-statement/new-zealand-coastal-policy-statement-2010-national-implementation-plan/</a> )		2	
Conservation Services Programme (CSP), managed by the Department of	Conservation Services Programme (CSP), managed by the Department of Conservation: •Protected species bycatch information, mainly from the	<a href="http://www.doc.govt.nz/conservation/marine-and-coastal/commercial-fishing/conservation-services-programme/publications/">http://www.doc.govt.nz/conservation/marine-and-coastal/commercial-fishing/conservation-services-programme/publications/</a>		2	

Conservation: •Protected species bycatch information, mainly from the CSP observer programme, •Information on population parameters relevant to assessing susceptibility of protected species to fisheries related impacts •Information on bycatch mitigation techniques	CSP observer programme, •Information on population parameters relevant to assessing susceptibility of protected species to fisheries related impacts •Information on bycatch mitigation techniques				
Initial assessment of risk posed by trawl and longline fisheries to selected seabird taxa breeding in New Zealand waters	Baird, S.J; Gilbert, D.J (2010) Initial assessment of risk posed by trawl and longline fisheries to selected seabird taxa breeding in New Zealand waters.			2	
A review of land-based effects on coastal fisheries and supporting biodiversity in New Zealand. New Zealand Aquatic Environment and Biodiversity Report	Morrison, MA; Lowe, ML; Parsons, DM, Usmar, MR McLeod IM (2009). A review of land-based effects on coastal fisheries and supporting biodiversity in New Zealand. New Zealand Aquatic Environment and Biodiversity Report No. 37, 100 p.			2	
Invited to expert to HOKI Ecological Risk Assessment.	Pinkerton, MH (2010a). Invited to expert to HOKI Ecological Risk Assessment. Seafood Industry House, 13-14 December 2010. Written submission to Hoki Ecological Risk process. 16 March 2011, Pp 8			2	
Disturbance of the marine benthic habitat by commercial fishing; impacts at the scale of the fishery.	Thrush, SF, JE Hewill, VJ Cummings, PK Dayton, M Cryer, SJ Turner, G A. Funnell, RG Budd, CJ Milburn and MR Wilkinson. 1998. Disturbance of the marine benthic habitat by commercial fishing; impacts at the scale of the fishery. Ecological			2	

	Applications 8:866-879				
Ecosystems indicators for New Zealand fisheries.	Tuck, I, Cole, R; Devine, J (2010). Ecosystems indicators for New Zealand fisheries. New Zealand Aquatic Environment and Biodiversity Report No. 42, Ministry of Fisheries, Wellington, New Zealand. 188p.			2	

## Socio-economic aspects

Name of Assessment:	Full Reference:	Full Text Reports/Output URL:	Classification/Type of Activity:	group	Organisation:
Global mercury assessment 2013. Sources, emissions, releases and environmental transport.	UNEP (2013) Global Mercury Assessment 2013: Sources, Emissions, Releases and Environmental Transport. UNEP Chemicals Branch, Geneva.	<a href="http://www.unep.org/publications/contents/pub_details_search.asp?ID=6282">http://www.unep.org/publications/contents/pub_details_search.asp?ID=6282</a>	global assessment	Pollution	UNEP
GESAMP: long-term consequences of low-level marine contamination: an analytical approach	GESAMP (1990) GESAMP: long-term consequences of low-level marine contamination: an analytical approach. UNEP Regional Seas Reports and Studies No. 118. United Nations Environment Program, Nairobi.	<a href="http://www.unep.org/regionalseas/Publications/Reports/RSRS/">http://www.unep.org/regionalseas/Publications/Reports/RSRS/</a>	subject area assessment	Pollution	UNEP/GESAMP
GESAMP: pollutant modification of atmospheric and oceanic processes and climate: some aspects of the problem	GESAMP (1990) GESAMP: pollutant modification of atmospheric and oceanic processes and climate: some aspects of the problem. UNEP Regional Seas Reports and Studies No. 117. United Nations Environment Program, Nairobi.	<a href="http://www.unep.org/regionalseas/Publications/Reports/RSRS/">http://www.unep.org/regionalseas/Publications/Reports/RSRS/</a>	subject area assessment	Pollution	UNEP/GESAMP
GESAMP: the state of the marine environment	GESAMP (1990) GESAMP: the state of the marine environment. UNEP Regional Seas Reports and Studies No. 115. United Nations Environment Program, Nairobi.	<a href="http://www.unep.org/regionalseas/Publications/Reports/RSRS/">http://www.unep.org/regionalseas/Publications/Reports/RSRS/</a>	global assessment	Pollution	UNEP/GESAMP
GESAMP: organosilicons in the marine environment	GESAMP (1986) GESAMP: organosilicons in the marine environment. UNEP	<a href="http://www.unep.org/regionalseas/Publications/Reports/RSRS/">http://www.unep.org/regionalseas/Publications/Reports/RSRS/</a>	global assessment	Pollution	UNEP

	Regional Sea Reports and Studies No. 78. United Nations Environment Program, Nairobi.				
GESAMP: arsenic, mercury and selenium in the marine environment	GESAMP (1988) GESAMP: arsenic, mercury and selenium in the marine environment. UNEP Regional Seas Reports and Studies No. 92. GESAMP Reports and Studies No. 28. United Nations Environment Programme, Nairobi.	<a href="http://www.unep.org/regionalseas/Publications/Reports/RSRS/">http://www.unep.org/regionalseas/Publications/Reports/RSRS/</a>	global assessment	Pollution	UNEP
GESAMP: cadmium, lead and tin in the marine environment	GESAMP (1985) GESAMP: cadmium, lead and tin in the marine environment. UNEP Regional Seas Reports and Studies No. 56. GESAMP Reports and Studies No. 22. United Nations Environment Programme, Nairobi.	<a href="http://www.unep.org/regionalseas/Publications/Reports/RSRS/">http://www.unep.org/regionalseas/Publications/Reports/RSRS/</a>	global assessment	Pollution	UNEP
Marine Pollution risk assessment for the Pacific Islands region	Anderson E, Judson B, Tu'itupou S, Thaman B (2003) Marine pollution risk assessment for the Pacific Islands region. Volume 1: main report. South Pacific Regional Environment Programme, Apia.	<a href="http://www.sprep.org/att/irc/ecopies/pacific_region/384a.pdf">http://www.sprep.org/att/irc/ecopies/pacific_region/384a.pdf</a>	regional assessment	Pollution	SPREP
Anthropogenic biogeochemical impacts on coral reefs in the Pacific Islands - on overview	Morrison RJ, Denton GRW, Bale Tamata U, Grignon J (2013) Anthropogenic biogeochemical impacts on coral reefs in the Pacific Islands - on overview. Deep Sea Research II published online 16 February 2013.	<a href="http://www.sciencedirect.com/science/article/pii/S0967064513000714">http://www.sciencedirect.com/science/article/pii/S0967064513000714</a>	regional assessment	Pollution	University of Wollongong
Proceedings of the GESAMP International workshop on micro-plastic particles as a vector in transporting persistent, bio-accumulating and toxic substances in the oceans.	Bowmer T, Kershaw PJ (eds) (2010) Proceedings of the GESAMP International Workshop on plastic particles as a vector in transporting persistent, bio-accumulating and toxic substances in the oceans. GESAMP Reports and Studies No. 82. UNESCO-IOC, Paris.	<a href="http://unesdoc.unesco.org/images/0019/001922/192205e.pdf">http://unesdoc.unesco.org/images/0019/001922/192205e.pdf</a>	global assessment	Pollution	UNESCO-IOC
Joint Group of Experts on the Scientific Aspects of Marine Environmental		<a href="http://www.gesamp.org/publications">http://www.gesamp.org/publications</a>	publications database	Pollution	GESAMP

Protection (GESAMP) publications					
Ship-generated marine pollution in nine posrts in the Pacific - identification and prevention	Fotu ST (2008) Ship-generated marine pollution in nine posrts in the Pacific - identification and prevention. Doctor of Philiosophy thesis, University of the South Pacific.	<a href="http://www.sprep.org/att/irc/ecopies/pacific_region/364.pdf">http://www.sprep.org/att/irc/ecopies/pacific_region/364.pdf</a>	regional assessment	Pollution	University of the South Pacific
Ocean and coastal management in the south Pacific	Ocean and Coastal Management 42 (1999) (special issue)	<a href="http://www.sciencedirect.com/science/journal/09645691/42/6-7">http://www.sciencedirect.com/science/journal/09645691/42/6-7</a>	journal special issue	Resources	Elsevier Ltd
Enhanced seamount location database	Allain V, Kerandel J-A, Andréfouët S, Magron F, Clark M, Kirby DS, Muller-Karger FE (2008) Enhanced seamount location database for the western and central Pacific Ocean: screening and cross-checking of 20 existing datasets. Deep-Sea Research I 55: 1035-1047	<a href="http://www.sciencedirect.com/science/article/pii/S0967063708000824">http://www.sciencedirect.com/science/article/pii/S0967063708000824</a>	data holding	Resources	Secretariat of the Pacific Community
Natural resource data bank for the South Pacific	Hill L, Pernetta J (1988) Natural resource data bank for the South Pacific. UNEP Regional Seas Reports and Studies No. 88. SPREP Reports and Studies No. 30. United Nations Environment Programe, Nairobi.	<a href="http://www.unep.org/regionalseas/Publications/Reports/RSRS/">http://www.unep.org/regionalseas/Publications/Reports/RSRS/</a>	regional assessment	Resources	UNEP
The state of marine resources of Helen Reef in the year 2000: results of scientific and community monitoring surveys, April 24 to May 3, 2000.	Brikeland C, Green A, Guilbeaux M, Donaldson T, Emilo D, Kirkendale L, Mangel J, Myers R, Weng K, van Woesik R (2003) The state of marine resources of Helen Reef in the year 2000: results of scientific and community monitoring surveys, April 24 to May 3, 2000. Helen Reef Resource Management Program, Koror.	<a href="http://www.sprep.org/att/IRC/eCOPIES/Countries/Palau/32.pdf">http://www.sprep.org/att/IRC/eCOPIES/Countries/Palau/32.pdf</a>	within country assessment	Resources	Helen Reef Resource Management Program
Community consultations on marine and terrestrial resources	Palau Conservation Society (2003) Community consultations on marine and terrestrial resources. Submitted as information for Palau's National Biodiversity Strategy and Action Plan.	<a href="http://www.sprep.org/att/irc/ecopies/countries/palau/63.pdf">http://www.sprep.org/att/irc/ecopies/countries/palau/63.pdf</a>	national assessment	Resources	Palau Conservation Society



Conservation and management of marine resources. Green snail and trochus protection campaign	Minsistry of Fisheries (???) Conservation and management of marine resources. Green snail and trochus campaign. Ministry of Fisheries, Tonga.	<a href="http://www.sprep.org/att/IRC/eCOPIES/Countries/tonga/35.pdf">http://www.sprep.org/att/IRC/eCOPIES/Countries/tonga/35.pdf</a>	information sheet	Resources	Ministry of Fsiheries, Tonga
Marine resources of the Tokelau Atolls. Nukunono Marine Resource Management Plan. Background report December 2004	Fisk D, Axford J, Power M (2004) Marine resoucrs of the Tokelau Atolls. Nukunono Marine Resource Management Plan December 2004. South Pacific Regional Environment Programme, Apia.	<a href="http://www.sprep.org/att/IRC/eCOPIES/Countries/tokelau/8.pdf">http://www.sprep.org/att/IRC/eCOPIES/Countries/tokelau/8.pdf</a>	national assessment	Resources	SPREP
Marine resources assessment for the Marianas operating area	Geo-Marine Inc (2005) Marine resources assessment for the Marianas operating area. Final report prepared for the Department of the Navy Commander, US Pacific Fleet. Geo-Marine Inc, Plano.	<a href="http://www.sprep.org/att/IRC/eCOPIES/Countries/Commonwealth_of_Northern_Marianas/14.pdf">http://www.sprep.org/att/IRC/eCOPIES/Countries/Commonwealth_of_Northern_Marianas/14.pdf</a>	regional assessment	Resources	Geo-Marine Inc
Aquatic Commons		<a href="http://aquaticcommons.org/">http://aquaticcommons.org/</a>	publications database	Resources	UNESCO/IOD
Commercial activity - shipping		<a href="http://geodata.grid.unep.ch/options.php?selectedID=2167&amp;selectedDatasettype=16">http://geodata.grid.unep.ch/options.php?selectedID=2167&amp;selectedDatasettype=16</a>	data holding	Shipping	National Centre for Ecological Analaysis and Synthesis (NCEAS)
Building resilience in SIDS: the environmental vulnerability index	Kaly UL, Pratt C and Mitchell J (2005) Building resilience in SIDS: the environmental vulnerability index. SOPAC and UNEP.	<a href="http://www.vulnerabilityindex.net/Files/EVI%20Final%20Report%202005.pdf">http://www.vulnerabilityindex.net/Files/EVI%20Final%20Report%202005.pdf</a>	regional assessment	Socio-Economic	South Pacific Applied Geoscience Commission
State of the Environment in Asia and the Pacific	State of the environment in Asia and the Pacific 2000. Economic growth and sustainability. United Nationas ESCAP, Bangkok.	<a href="http://www.unescap.org/esd/environment/soe/">http://www.unescap.org/esd/environment/soe/</a>	regional assessment	Socio-Economic	United Nations Economic and Social Commission for Asia and the Pacific
State of the Environment in Asia and the Pacific	State of the environment in Asia and the Pacific 2005. Economic growth and sustainability. United Nationas ESCAP, Bangkok.	<a href="http://www.unescap.org/esd/environment/soe/">http://www.unescap.org/esd/environment/soe/</a>	regional assessment	Socio-Economic	United Nations Economic and Social Commission

					for Asia and the Pacific
GESAMP: choosing priority organochlorines for marine hazard assessment	GESAMP (1990) GESAMP: choosing priority organochlorines for marine hazard assessment. UNEP Regional Seas Reports and Studies No. 120. GESAMP Reports and Studies No. 42. United Nations Environment Program, Nairobi.	<a href="http://www.unep.org/regionalseas/Publications/Reports/RSRS/">http://www.unep.org/regionalseas/Publications/Reports/RSRS/</a>	subject area assessment	Socio-Economic	UNEP/GESAMP
Marine and coastal ecosystems and human wellbeing. A synthesis report based on the findings of the Millennium Ecosystem Assessment	UNEP-WCMC (2006) Marine and coastal ecosystems and human wellbeing. A synthesis report based on the findings of the Millennium Ecosystem Assessment. United Nations Environment Programme, Nairobi.	<a href="http://www.sprep.org/att/irc/ecopies/global/300.pdf">http://www.sprep.org/att/irc/ecopies/global/300.pdf</a>	global assessment	Socio-Economic	UNEP
Annotated bibliography on socio-economic and ecological impacts of marine protected areas in Pacific Island countries	Cohen P, Valemei AD, Goven H (2008) Annotated bibliography on socio-economic and ecological impacts of marine protected areas in Pacific Island countries. WorldFish Bibliography No. 1870. The WorldFish Center, Penang.	<a href="http://www.sprep.org/att/irc/ecopies/pacific_region/423.pdf">http://www.sprep.org/att/irc/ecopies/pacific_region/423.pdf</a>	regional assessment	Socio-Economic	WorldFish Centre
Economic value of the Pacific Ocean to the Pacific Island countries and territories	Seidel H, Lal PN (2010) Economic value of the Pacific Ocean to the Pacific Island countries and territories. IUCN, Gland.	<a href="http://cmsdata.iucn.org/downloads/economic_value_of_the_pacific_ocean_to_the_pacific_island_countries_and_territories_p.pdf">http://cmsdata.iucn.org/downloads/economic_value_of_the_pacific_ocean_to_the_pacific_island_countries_and_territories_p.pdf</a>	regional assessment	Socio-Economic	IUCN
Estimating the total economic value (TEV) of the Navakavu LMMA (Locally Managed Marine Area) in Vitu Levu Island (Fiji)	O'Garra T. 2007. Estimating the total economic value (TEV) of the Navakavu LMMA (Locally Managed Marine Area) in Vitu Levu Island (Fiji). Coral Reef Initiatives for the Pacific (CRISP), Noumea.	<a href="http://www.spc.int/fame/en/fame-digital-library">http://www.spc.int/fame/en/fame-digital-library</a>	national assessment	Socio-Economic	CRISP
Importance of household income and expenditure surveys and censuses for management of coastal and freshwater fisheries	Bell J, Bright P, Gillett B, Keeble G, Kronen M, Passfield K, Ryan C (2008) Importance of household income and expenditure surveys and censuses for management of coastal and freshwater fisheries. SPC Fisheries newsletter 127: 34-39.	<a href="http://www.spc.int/coastfish/en/publications/digital-library.html">http://www.spc.int/coastfish/en/publications/digital-library.html</a>	regional assessment	Socio-Economic	Secretariat of the Pacific Community

Building capacity and cooperation for sustainable development of Pacific coastal resources forum. Townsville - Australia 3-7 September 2007.	Clua E. 2007. Building Capacity and Cooperation for Sustainable Development of Pacific Coastal Resources Forum, Townsville-Australia, 3-7 September 2007. Coral Reef Initiatives for the Pacific (CRISP), Noumea.	<a href="http://www.spc.int/coastfish/en/publications/digital-library.html">http://www.spc.int/coastfish/en/publications/digital-library.html</a>	regional assessment	Socio-Economic	CRISP
PRISM Online mapping		<a href="http://www.spc.int/prism/online-mapping">http://www.spc.int/prism/online-mapping</a>	web-based information tool	Socio-Economic	Secretariat of the Pacific Community
Pacific data catalogue		<a href="http://www.spc.int/prism/data-catalog">http://www.spc.int/prism/data-catalog</a>	web-based information tool	Socio-Economic	Secretariat of the Pacific Community
Ecosystems and human well-being: a framework for assessment	Alcamo J et al. (2003) Ecosystems and human well-being: a framework for assessment. A report of the conceptual framework working group of the Millennium Ecosystem Assessment. Island Press Washington DC.	<a href="http://pdf.wri.org/ecosystems_human_wellbeing.pdf">pdf.wri.org/ecosystems_human_wellbeing.pdf</a>	global assessment	Socio-Economic	UNEP
An approach to environmental impacts assessment for projects affecting the coastal and marine environment	UNEP (1990) An approach to environmental impacts assessment for projects affecting the coastal and marine environment. UNEP Regional Seas Reports and Studies No. 122. United Nations Environment Program, Nairobi.	<a href="http://www.unep.org/regionalseas/Publications/Reports/RSRS/">http://www.unep.org/regionalseas/Publications/Reports/RSRS/</a>	subject area assessment	SOE	UNEP
Pacific Ocean synthesis: scientific literature review of coastal and ocean threats, impacts, and solutions	Center for Ocean Solutions (2009) Pacific Ocean synthesis: scientific literature review of coastal and ocean threats, impacts, and solutions. The Woods Center for the Environment, Stanford University. California.	<a href="http://www.centerforoceansolutions.org/?q=projects/pacific-ocean-initiative">http://www.centerforoceansolutions.org/?q=projects/pacific-ocean-initiative</a>	regional assessment	SOE	Center for Ocean Solutions
An index to assess the health and benefits of the global ocean	Halpern BS, Longo C, Hardy D, McLeod KL, Samhouri JF, Katona SK, Kleisner K, Lester SE, O'Leary J, Ranelletti M, Rosenberg AA, Scarborough C, Selig ER, Best BD, Brumbaugh DR, Chapin FS, Crowder LB, Daly KL, Doney SC, Elfers C,	<a href="http://www.nature.com/nature/journal/v488/n7413/abs/nature11397.html">http://www.nature.com/nature/journal/v488/n7413/abs/nature11397.html</a>	global assessment	SOE	University of California

	Fogarty MJ, Gaines SD, Jacobsen K, Karrer LB, Leslie HM, Neeley E, Pauly D, Polasky S, Ris B, St. Martin K, Stone GS, Sumaila UR, Zeller D (2012) An index to assess the health and benefits of the global ocean. Nature 488: 615-620.				
Economic of coastal zone management in the Pacific	Ram-Bidesi V, Padma Narsey L, Conner N (2011) Economic of coastal zone management in the Pacific. IUCN, Suva.	<a href="http://www.iucn.org/about/union/secretariat/offices/oceania/oceania_resources_and_publications/?11738/Economics-of-coastal-zone-management-in-the-Pacific">http://www.iucn.org/about/union/secretariat/offices/oceania/oceania_resources_and_publications/?11738/Economics-of-coastal-zone-management-in-the-Pacific</a>	regional assessment	SOE	IUCN
The Coastal Policy statement and implementation plan	The Coastal Policy statement and implementation plan	<a href="http://www.doc.govt.nz/publications/conservation/marine-and-coastal/new-zealand-coastal-policy-statement/new-zealand-coastal-policy-statement-2010/">http://www.doc.govt.nz/publications/conservation/marine-and-coastal/new-zealand-coastal-policy-statement/new-zealand-coastal-policy-statement-2010/;</a> <a href="http://www.doc.govt.nz/publications/conservation/marine-and-coastal/new-zealand-coastal-policy-statement/new-zealand-coastal-policy-statement-2010-national-implementation-plan/">http://www.doc.govt.nz/publications/conservation/marine-and-coastal/new-zealand-coastal-policy-statement/new-zealand-coastal-policy-statement-2010-national-implementation-plan/</a>		3	
Expert Risk Assessment of Activities in the New Zealand Exclusive Economic Zone and Extended Continental Shelf.	MacDiarmid, A. et al. (2011) Expert Risk Assessment of Activities in the New Zealand Exclusive Economic Zone and Extended Continental Shelf. WLG2011-39, National Institute of Water and Atmospheric Research (NIWA), Wellington, New Zealand. 138p. (Published in May 2012 by the Ministry for the Environment. Pub. N. CR124).	<a href="http://www.mfe.govt.nz/publications/oceans/managing-our-oceans/niwa-risk-assessment.pdf">http://www.mfe.govt.nz/publications/oceans/managing-our-oceans/niwa-risk-assessment.pdf</a>		3	
CAENZ (2003) Economic opportunities in New Zealand's Oceans. Informing the development of oceans policy.	CAENZ (2003) Economic opportunities in New Zealand's Oceans. Informing the development of oceans policy. Centre for Advance Engineering, Private bag 4800, Christchurch. 32p.	<a href="http://www.mfe.govt.nz/publications/oceans/economic-opportunities-oceans-jun03/economic-opportunities-oceans-jun03.pdf">http://www.mfe.govt.nz/publications/oceans/economic-opportunities-oceans-jun03/economic-opportunities-oceans-jun03.pdf</a>		3	
CAENZ (2006) A report on possible government interventions to promote	CAENZ (2006) A report on possible government interventions to promote the sustainable development of New	<a href="http://www.mfe.govt.nz/publications/oceans/government-interventions-ocean-resources-">http://www.mfe.govt.nz/publications/oceans/government-interventions-ocean-resources-</a>		3	

the sustainable development of New Zealand's ocean resources	Zealand's ocean resources. Prepared for the Ministry for the Environment. Centre for Advanced Engineering, University of Canterbury, Christchurch, New Zealand. 55p.	may06/government-interventions-ocean-resources-may06.pdf			
NZGSDW (1999) New Zealand Guidelines for Sea Disposal of Waste	NZGSDW (1999) New Zealand Guidelines for Sea Disposal of Waste. No. 180-1. Maritime Safety Authority of New Zealand, Wellington. pp. 88.	<a href="http://www.maritimenz.govt.nz/Publications-and-forms/Environmental-protection/Sea-disposal-of-waste.pdf">http://www.maritimenz.govt.nz/Publications-and-forms/Environmental-protection/Sea-disposal-of-waste.pdf</a>		3	
The Exclusive Economic Zone and Continental Shelf (Environmental Effects) Bill	The Exclusive Economic Zone and Continental Shelf (Environmental Effects) Bill. Ministry for the Environment.	<a href="http://www.legislation.govt.nz/bill/government/2011/0321/latest/DLM3955428.html">http://www.legislation.govt.nz/bill/government/2011/0321/latest/DLM3955428.html</a>		3	
The Exclusive Economic Zone and Continental Shelf (Environmental Effects) Bill	Makgill, R.; Dawson, K.; De Wit, N. (2012) The Exclusive Economic Zone and Continental Shelf (Environmental Effects) Bill. Resource Management Journal, (April 2012).			3	
The Exclusive Economic Zone and Continental Shelf (Environmental Effects) Bill	Makgill, R.; Logan, A. (2012) The Exclusive Economic Zone and Continental Shelf (Environmental Effects) Bill. Lawtalk, 789 (17 (February 2012)).			3	
A Global Map of Coastal Recreation Values: Results from a Spatially Explicit Meta-Analysis	Ghermandi, Andrea, and Paulo Nunes. "A Global Map of Coastal Recreation Values: Results from a Spatially Explicit Meta-Analysis." In press.	<a href="http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1904842">http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1904842</a>		3	
Recreational water quality in NZ	Environmental reporting by Ministry of Environment: Recreational water quality in NZ	<a href="http://www.mfe.govt.nz/environmental-reporting/report-cards/water-quality/2012/index.html">http://www.mfe.govt.nz/environmental-reporting/report-cards/water-quality/2012/index.html</a>		3	
New Zealand Threat Classification System	New Zealand Threat Classification System	<a href="http://www.doc.govt.nz/publications/conservation/nz-threat-classification-system/">http://www.doc.govt.nz/publications/conservation/nz-threat-classification-system/</a>		3	
Treasures of the Sea - extra amendments	Treasures of the Sea - extra amendments			3	
Market research study: a review of the Environment New Zealand 2007 report	Daw, J; Mulawin, R; Trotman, A (2008). Market research study: a review of the Environment New Zealand 2007 report.			3	

	Prepared for the Environment by Peter Glenn Research, 35p				
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## Biodiversity aspects

Name of Assessment:	Full Reference:	Full Text Reports/Output URL:	Classification/Type of Activity:	Biodiversity Category. 1 =coastal, 2=shelf, 3=deep sea, 4=pelagic,5 = all	Organisation:
Global open oceans and deep seabed (GOODS) biogeographic classification	Vierros M, Cresswell I, Escobar Briones E, Rice J, Ardron J (eds) (2009) Global open oceans and deep seabed (GOODS) biogeographic classification. UNESCO Technical Series 84. UNESCO-IOC, Paris.	<a href="http://unesdoc.unesco.org/images/0018/001824/182451e.pdf">unesdoc.unesco.org/images/0018/001824/182451e.pdf</a>	global assessment	3,4	UNESCO-IOC
International Whaling Commission catch data		<a href="http://data.marinemammals.gov.au/portal/catch.cfm">http://data.marinemammals.gov.au/portal/catch.cfm</a>	web based information tool	2,3,4	Australian Government Department of Sustainability, Environment, Water, Population and Communities and the International Whaling Commission
The distribution of protected corals in New Zealand Waters.	S.J. Baird, D. Tracey, S. Mormede, M. Clark. (2012) The distribution of protected corals in New Zealand Waters. Prepared for DOC. NIWA Client Report No: WLG2012-43	<a href="http://www.doc.govt.nz/Documents/conservation/marine-and-coastal/marine-conservation-services/pop-2011-06-protected-coral-distribution-draft-final-report.pdf">http://www.doc.govt.nz/Documents/conservation/marine-and-coastal/marine-conservation-services/pop-2011-06-protected-coral-distribution-draft-final-report.pdf</a>		2,3	
Marine Environment	Marine Environment Classification	<a href="http://www.doc.govt.nz/Documents/conserv">http://www.doc.govt.nz/Documents/conserv</a>		2,3	

Classification optimised for demersal fish	optimised for demersal fish Leithwick, J., Dey, K., Julian, K. (2006). Development of a marine environmental classification optimised for demersal fish. Prepared for Department of Conservation. NIWA Project: DOC06213 - Leithwick, J., Dey, K., Julian, K. (2006). Development of a demersal fish community map for New Zealand's Exclusive Economic Zone. Prepared for Department of Conservation. NIWA Client Report: HAM2006-062	ation/marine-and-coastal/marine-protected-areas/MCU1.pdf			
A Benthic-optimised Marine Environment Classification (BOMECE) for New Zealand waters.	A Benthic-optimised Marine Environment Classification (BOMECE) for New Zealand waters. Leathwick et al (2012). A Benthic-optimised Marine Environment Classification (BOMECE) for New Zealand waters. New Zealand Aquatic and Environment and Biodiversity Report No. 88, 54 p.	<a href="http://fs.fish.govt.nz/Doc/23073/AEBR_88.pdf">http://fs.fish.govt.nz/Doc/23073/AEBR_88.pdf</a>		2,3	
Patterns of Deep-Sea Genetic Connectivity in the New Zealand Region: Implications for Management of Benthic Ecosystems	Bors EK, Rowden AA, Maas EW, Clark MR, Shank TM (2012) Patterns of Deep-Sea Genetic Connectivity in the New Zealand Region: Implications for Management of Benthic Ecosystems. PLoS ONE 7(11): e49474. doi:10.1371/journal.pone.0049474	<a href="http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0049474">http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0049474</a>		2,3	
Habitat-forming cold-water corals show affinity for seamounts in the New Zealand region	Habitat-forming cold-water corals show affinity for seamounts in the New Zealand region Dianne M. Tracey1,*, Ashley A. Rowden1, Kevin A. Mackay1, Tanya Compton2 1National Institute of Water and Atmospheric Research, Wellington, New Zealand, 2National Institute of Water and Atmospheric Research, Hamilton, New Zealand	<a href="http://www.int-res.com/">http://www.int-res.com/</a>		2,3	
Variation in demersal fish	Variation in demersal fish species	<a href="http://www.int-res.com/">http://www.int-res.com/</a>		2,3	

species richness in the oceans surrounding New Zealand: an analysis using boosted regression trees	richness in the oceans surrounding New Zealand: an analysis using boosted regression trees J. R. Leathwick1*, J. Elith2, M. P. Francis3, T. Hastie4, P. Taylor1 1National Institute of Water and Atmospheric Research, PO Box 11115, Hamilton, New Zealand 2School of Botany, University of Melbourne, Parkville 3010, Victoria, Australia 3National Institute of Water and Atmospheric Research, Private Bag 14901, Wellington, New Zealand 4Sequoia Hall, Stanford University, Stanford, California 94305-4065, USA				
Development of a demersal fish community map for New Zealand's Exclusive Economic Zone.	Leathwick, JR; Francis, M; Julian, K (2006). Development of a demersal fish community map for New Zealand's Exclusive Economic Zone. NIWA Client Report: HAM2006-062, 21pp			2,3	
Development of a benthic-optimised marine environment classification for waters within the New Zealand EEZ.	Leathwick, JR; Rowden, A; Nodder, S; Gorman, R; Bardeley, S; Pinkerton, Baird, SJ; Hadfield, M. Currie, GOH, A (2009). Development of a benthic-optimised marine environment classification for waters within the New Zealand EEZ. Final Report prepared as part completion of Objective 5 of BEN200601 for Ministry of Fisheries. 52p			2,3	
Great Barrier Reef Outlook Report 2009	GBRMPA (2009) Great Barrier Reef outlook report 2009. Great Barrier Reef Marine Park Authority, Townsville.	<a href="http://www.gbrmpa.gov.au/corp_site/info_services/publications">http://www.gbrmpa.gov.au/corp_site/info_services/publications</a>	within country assessment	1,2,3	Great Barrier Reef Marine Park Authority
Marine protected areas. Review of FGEFs cofinanced project experiences	Gabriel C, Clément T, Mercier JR, You H (2010) Marine protected areas. Review of FGEF's cofinanced project experiences. French Global Environment Facility	<a href="http://www.sprep.org/att/irc/ecopies/global/448.pdf">http://www.sprep.org/att/irc/ecopies/global/448.pdf</a> <a href="http://www.ffem.fr/jahia/webdav/site/ffem/users/admiffem/public/Publications/Executive%20Summary.pdf">http://www.ffem.fr/jahia/webdav/site/ffem/users/admiffem/public/Publications/Executive%20Summary.pdf</a>	global assessment	1,2	French Global Environment Facility
Reefbase global database		<a href="http://www.reefbase.org/global_database/d">http://www.reefbase.org/global_database/d</a>	publications database	1,2	ReefBase



		efault.aspx			
ReefBase Online Geographic Information System (ReefGIS)		<a href="http://www.reefbase.org/gis_maps/default.aspx">http://www.reefbase.org/gis_maps/default.aspx</a>	web-based information tool	1,2	Reefbase
International Coral Reef Symposium (ICRS) Proceedings		<a href="http://www.reefbase.org/resource_center/publication/icrs.aspx">http://www.reefbase.org/resource_center/publication/icrs.aspx</a>	publications database	1,2	Reefbase
Marine environment survey: proposed Aleipata Islands National Park, western Samoa	Andrews GJ, Holthus PF (1989) Marine environment survey: proposed Aleipata Islands National Park, western Samoa	<a href="http://www.sprep.org/att/irc/ecopies/countries/samoa/135.pdf">http://www.sprep.org/att/irc/ecopies/countries/samoa/135.pdf</a>	within country assessment	1,2	SPC
Ecological assessment and community monitoring plan for marine protected areas in Yap State, FSM	Palau International Coral Reef Centre (2007) Ecological assessment and community monitoring plan for marine protected areas in Yap State, FSM. SPREP, Apia.	<a href="http://www.sprep.org/att/publication/000550_IWP_PTR42.pdf">http://www.sprep.org/att/publication/000550_IWP_PTR42.pdf</a>	national assessment	1,2	SPREP
State of the coral reefs of Papua New Guinea. Coral Triangle marine resources: their status, economies and management	National CTI Coordinating Committee of Papua New Guinea (2012) State of the coral reefs of Papua New Guinea. Coral Triangle marine resources: their status, economies and management. National CTI Coordinating Committee of Papua New Guinea.	<a href="http://www.coraltriangleinitiative.net/programs-and-projects/adb-reta-7307/the-state-of-the-coral-triangle-report-sctr">http://www.coraltriangleinitiative.net/programs-and-projects/adb-reta-7307/the-state-of-the-coral-triangle-report-sctr</a>	national assessment	1,2	National CTI Coordinating Committee of Papua New Guinea
State of the coral reefs of Solomon Islands. Coral Triangle marine resources: their status, economies and management	Sulu R, Boso DN, Vave-Karamui A, Maui S, Wini-Simeon L (2012) State of the coral reefs of Solomon Islands. Coral Triangle marine resources: their status, economies and management. Solomon Islands National Coordinating Committee	<a href="http://www.coraltriangleinitiative.net/programs-and-projects/adb-reta-7307/the-state-of-the-coral-triangle-report-sctr">http://www.coraltriangleinitiative.net/programs-and-projects/adb-reta-7307/the-state-of-the-coral-triangle-report-sctr</a>	national assessment	1,2	National CTI Coordinating Committee of Solomon Islands
Marine biodiversity of the Federated States of Micronesia	Edward A (2002) Marine biodiversity of the Federated States of Micronesia. Report prepared for the FSM National Strategy and Action Plan Project. FSM Department of Economic Affairs.	<a href="http://www.sprep.org/att/IRC/eCOPIES/Countries/FSM/42.pdf">http://www.sprep.org/att/IRC/eCOPIES/Countries/FSM/42.pdf</a>	national assessment	1,2	FSM Department of Economic Affairs
Mediated Modelling of Coastal Ecosystem	van den Belt, M, McCallion, A., Wairepo, S., Hardy, D., Hale, L. and Berry, M.2012,			1,2	

Services: A case study of Te Awanui Tauranga Harbour, Manaaki Taho Moana project	Mediated Modelling of Coastal Ecosystem Services: A case study of Te Awanui Tauranga Harbour, Manaaki Taho Moana project, ISSN 2230-3340				
Predictive models of small fish presence and abundance in northern New Zealand harbours	Francis MP, Morrison MA, Leathwick J, Walsh C, Middleton C. Predictive models of small fish presence and abundance in northern New Zealand harbours. Estuarine coastal and Shelf Science 2005; 64 (2-3); 419-435			1,2	
Conservation, management and development of coral reefs in the Pacific - building on the results of six years of research, collaboration and education	Gabrie C (2011) Conservation, management and development of coral reefs in the Pacific - building on the results of six years of research, collaboration and education. Secretariat of the Pacific Community, Noumea.	<a href="http://www.spc.int/.../ENG_2011_Conservation_management_developmen...">www.spc.int/.../ENG_2011_Conservation_management_developmen...</a>	regional assessment	1,2	CRISP/SPC
Status of the Coral Reefs of the World	Global Coral Reef Monitoring Network (2008) Status of the Coral Reefs of the World: 2008. Global Coral Reef Monitoring Network and Reef and Rainforest Research Center, Townsville	<a href="http://www.gcrmn.org/publications.aspx">http://www.gcrmn.org/publications.aspx</a>	regional assessment	1,2	Global Coral Reef Monitoring Network
Status and potential of locally-managed marine areas in the south Pacific: meeting nature conservation and sustainable livelihood targets through wide-spread implementation of LMMAs	Govan H (2009) Status and potential of locally-managed marine areas in the south Pacific: meeting nature conservation and sustainable livelihood targets through wide-spread implementation of LMMAs. SPREP/WWF/WorlFish-ReefBase/CRISP.	<a href="http://www.sprep.org/att/publication/000646_LMMA_Report.pdf">http://www.sprep.org/att/publication/000646_LMMA_Report.pdf</a>	regional assessment	1,2	CRISP
Marine biodiversity law in Fiji, Solomon and Vanuatu Islands	Beurier J-P, Guilloux B, Zakovska K (2009) Marine biodiversity law in Fiji, Solomon and Vanuatu Islands. University of Nantes, Nantes.	<a href="http://www.sprep.org/att/irc/ecopies/pacific_region/513.pdf">http://www.sprep.org/att/irc/ecopies/pacific_region/513.pdf</a> <a href="http://www.crisponline.net/Portals/1/PDF/0904_C2A_TVE_Navakavu.pdf">http://www.crisponline.net/Portals/1/PDF/0904_C2A_TVE_Navakavu.pdf</a>	regional assessment	1,2	University of Nantes
A global map of human impacts to marine	Halpern BS, Walbridge S, Selkoe KA, Kappel CV, Micheli F, D'Agrosa C, Bruno	<a href="http://www.nceas.ucsb.edu/globalmarine">http://www.nceas.ucsb.edu/globalmarine</a>	global assessment	5	National Centre for

ecosystems	JF, Casey KS, Ebert C, Fox HE, Fujita R, Heinemann D, Lenihan HS, Madin EMP, Perry MT, Selig ER, Spalding M, Steneck R, Watson R (2008) A global map of human impact on marine ecosystems. Science 319: 948-952.				Ecological Analysis and Synthesis (NCEAS)
Global ocean protection: present status and future possibilities	Toropova C, Meliane I, Laffoley D, Matthews E, Spalding M (eds) (2010) Global ocean protection: present status and future possibilities. IUCN, Gland.	<a href="http://www.iucn.org/about/union/secretariat/offices/oceania/oceania_resources_and_publications/?7040/global-ocean-protection">http://www.iucn.org/about/union/secretariat/offices/oceania/oceania_resources_and_publications/?7040/global-ocean-protection</a>	global assessment	5	IUCN
Global Environment Outlook 5	UNEP (2012) Global Environment Outlook 5. Environment for the future we want. United Nations Environment Program, Nairobi.	<a href="http://www.unep.org/geo/geo5.asp">http://www.unep.org/geo/geo5.asp</a>	global assessment	5	UNEP
Guidelines for the rapid ecological assessment of biodiversity in inland water, coastal and marine areas	Secretariat of the Convention on Biological Diversity (2006) Guidelines for the rapid ecological assessment of biodiversity in inland water, coastal and marine areas. CBD Technical Series No 22. Secretariat of the Convention on Biological Diversity, Montreal.	<a href="http://www.sprep.org/att/irc/ecopies/global/226.pdf">http://www.sprep.org/att/irc/ecopies/global/226.pdf</a>	global assessment	5	Secretariat of the Convention of Biological Diversity
Global Biodiversity Outlook 3	Secretariat of the Convention on Biological Diversity (2010) Global Biodiversity Outlook 3. Secretariat of the Convention on Biological Diversity, Montreal.	<a href="http://www.cbd.int/gbo3/">http://www.cbd.int/gbo3/</a>	global assessment	5	Secretariat of the Convention on Biological Diversity
OceanDocs		<a href="http://www.oceandocs.net/">http://www.oceandocs.net/</a>	publications database	5	UNESCO/IOD
Ocean Biogeographic Information System		<a href="http://www.iobis.org/">http://www.iobis.org/</a>	web based information tool	5	UNESCO-IOC
Census of Marine Life bibliographic database		<a href="http://db.coml.org/comlrefbase/">http://db.coml.org/comlrefbase/</a>	publications database	5	Census of Marine Life
Census of Marine Life Secretariat Reports and other docs		<a href="http://www.comlsecretariat.org/reports-other-documents/">http://www.comlsecretariat.org/reports-other-documents/</a>	publications database	5	Census of Marine Life
CephBase	Wood JW, Dau CL, Lee P, O'Dor RK (2000) CephBase: testing ideas for cephalopod and other species-level	<a href="http://www.cephbase.dal.ca">www.cephbase.dal.ca</a>	data holding	5	Dalhousie University

	databases. Oceanography 13: 14-20.				
Marine mammals plan of action: evaluation of its development and achievements	UNEP (1988) Marine mammals plan of action: evaluation of its development and achievements. UNEP Regional Seas Reports and Studies No. 102. United Nations Environment Program, Nairobi.	<a href="http://www.unep.org/regionalseas/Publications/Reports/RSRS/">http://www.unep.org/regionalseas/Publications/Reports/RSRS/</a>	global assessment	5	UNEP
International Tropical Marine Ecosystems Management Symposium		<a href="http://www.reefbase.org/resource_center/publication/itmems.aspx">http://www.reefbase.org/resource_center/publication/itmems.aspx</a>	publications database	5	Reefbase
Global International Waters Assessment	UNEP (2006) Challenges to International Waters - Regional Assessments in a Global Perspective. United Nations Environment Program, Nairobi	<a href="http://www.unep.org/dewa/giwa/">http://www.unep.org/dewa/giwa/</a>	global assessment	5	UNEP
Global synthesis. A report from the regional seas conventions and action plans for the marine biodiversity assessment and outlook series	UNEP (2010) Global synthesis. A report from the regional seas conventions and action plans for the marine biodiversity assessment and outlook series. UNEP, Nairobi.	<a href="http://www.sprep.org/att/irc/ecopies/global/490.pdf">http://www.sprep.org/att/irc/ecopies/global/490.pdf</a> <a href="http://marinebiodiversityseries.org/reports/2-global-synthesis-report.html">http://marinebiodiversityseries.org/reports/2-global-synthesis-report.html</a>	global assessment	5	UNEP
The status of marine resources and coral reefs of Nauru	Jacob P (2002) The status of marine resources and coral reefs of Nauru. Pages 207 - 214 in ??? (eds). Coral reefs in the Pacific: status and monitoring, resources and management. ????	<a href="http://www.sprep.org/att/IRC/eCOPIES/Countries/Nauru/3.pdf">http://www.sprep.org/att/IRC/eCOPIES/Countries/Nauru/3.pdf</a>	national assessment	5	???
State of the Environment Report		<a href="http://www.sprep.org/Pacific-Environment-Information-Network/country-profiles-directory">http://www.sprep.org/Pacific-Environment-Information-Network/country-profiles-directory</a>	national assessment	5	Individual countries with SPREP
		<a href="http://www.cbd.int/kb/Results?q=fiji">http://www.cbd.int/kb/Results?q=fiji</a>		5	
Review of marine turtle legislation in Tuvalu	Tekinene M (2010) Review of marine turtle legislation in Tuvalu. South Pacific Regional Environment Program, Apia.	<a href="http://www.sprep.org/att/publication/000936_Tuvalu_turtle_legislation_review.pdf">http://www.sprep.org/att/publication/000936_Tuvalu_turtle_legislation_review.pdf</a>	within country assessment	5	SPREP
Republic of the Marshall Islands (RMI) marine turtle legislation review	Kabua EN, Edwards F (2010) Republic of the Marshall Islands (RMI) marine turtle legislation review. South Pacific Regional Environment Program, Apia.	<a href="http://www.sprep.org/att/publication/000935_RMI_turtle_legislation_review.pdf">http://www.sprep.org/att/publication/000935_RMI_turtle_legislation_review.pdf</a>	within country assessment	5	SPREP
Review of marine turtles legislation in Solomon	Masolo T, Ramohia P (2010) Review of marine turtles legislation in Solomon	<a href="http://www.sprep.org/att/publication/000934_Solomon_turtle_legislation_review.pdf">http://www.sprep.org/att/publication/000934_Solomon_turtle_legislation_review.pdf</a>	within country assessment	5	SPREP

Islands	Islands. South Pacific Regional Environment Program, Apia.				
Review of marine turtle legislation in Fiji	Nasome E, Takaduadua E, Batibasaga A (2010) Review of marine turtles legislation in Fiji. South Pacific Regional Environment Program, Apia.	<a href="http://www.sprep.org/att/publication/000933_Fiji_turtle_legislation_review.pdf">http://www.sprep.org/att/publication/000933_Fiji_turtle_legislation_review.pdf</a>	within country assessment	5	SPREP
Review of marine turtle legislation in Samoa	Bell LAJ, Peteru C, Momoemasu M, Ward J (2010) Review of marine turtle legislation in Samoa. South Pacific Regional Environment Program, Apia.	<a href="http://www.sprep.org/att/publication/000871_Samoa_turtle_Legislation_review_samoa.pdf">http://www.sprep.org/att/publication/000871_Samoa_turtle_Legislation_review_samoa.pdf</a>	within country assessment	5	SPREP
(2002) Oceans Policy Stocktake	Willis, G.; Gunn, J.; Hill, D. (2002) Oceans Policy Stocktake . Part 1 – Legislation and Policy Review Prepared for the Oceans Policy Secretariat Ministry for the Environment, Wellington, New Zealand. 115p.	<a href="http://www.mfe.govt.nz/publications/oceans/stocktake-report-dec02/report.pdf">http://www.mfe.govt.nz/publications/oceans/stocktake-report-dec02/report.pdf</a>		5	
Scoping analysis of matters to consider when reporting on the state of marine environment	Scoping analysis of matters to consider when reporting on the state of marine environment - Prepared for Parliamentary Commissioner for the Environment. Alison MacDiarmid, David Thompson, Matt Pinkerton, Terry Hume			5	
Environmental indicators for National State of the Environment reporting: estuaries and the sea	Ward T, Butler E, Hill B (1998) Environmental indicators for national state of the environment reporting – Estuaries and the Sea. Environment Australia, Canberra	<a href="http://www.environment.gov.au/soe/publications/indicators/estuaries.html">http://www.environment.gov.au/soe/publications/indicators/estuaries.html</a>	national assessment	5	Environment Australia
National Environment Management Strategy		<a href="http://www.sprep.org/Pacific-Environment-Information-Network/country-profiles-directory">http://www.sprep.org/Pacific-Environment-Information-Network/country-profiles-directory</a>	national assessment	5	SPREP
Introduced marine species in Pago Pago Harbour, Fagatele Bay and the National Park coast, American Samoa	Coles SL, Reath PR, Skelton PA, Bonito V, DeFelice RC, Basch L (2003) Introduced marine species in Pago Pago Harbour, Fagatele Bay and the National Park coast, American Samoa. Final report prepared for the US Fish and Wildlife Service, Fagatele Bay National Marine	<a href="http://www.sprep.org/att/IRC/eCOPIES/Countries/american_samoa/17.pdf">http://www.sprep.org/att/IRC/eCOPIES/Countries/american_samoa/17.pdf</a>	national assessment	5	Bishop Museum

	Sanctuary, National Park of American Samoa and American Samoa Department of Marine and Natural Resources. Bishop Museum Technical Report No 26, Bishop Museum, Honolulu.				
National Marine Mammal Data Portal		<a href="http://data.marinemammals.gov.au/">http://data.marinemammals.gov.au/</a>	data holding	5	Australian Antarctic Division
New Caledonia country report	Joannot P, Devink F, Giraudon C, Garrigue C, Siapo P, Dauzon J-L, Henriot K, Eschenbrenner L, Farman R, Carrier M (2002) New Caledonia country report. Pages 215 - 231 in ??? (eds). Coral reefs in the Pacific: status and monitoring, resources and management. ???	<a href="http://www.sprep.org/att/IRC/eCOPIES/Countries/Nauru/3.pdf">http://www.sprep.org/att/IRC/eCOPIES/Countries/Nauru/3.pdf</a>	national assessment	5	???
The status of marine resources and coral reefs of Samoa	Skelton PA, Bell LJ, Mulipola A, Trevor A (2002) The status of marine resources and coral reefs of Samoa. Pages 233 - 261 in ??? (eds). Coral reefs in the Pacific: status and monitoring, resources and management. ???	<a href="http://www.sprep.org/att/IRC/eCOPIES/Countries/Nauru/3.pdf">http://www.sprep.org/att/IRC/eCOPIES/Countries/Nauru/3.pdf</a>	national assessment	5	???
The status of Solomon Islands coral reefs	Sulu R, Hay C, Ramohia P, Lam M (2002) The status of Solomon Islands coral reefs. Pages 263 - 316 in ??? (eds). Coral reefs in the Pacific: status and monitoring, resources and management. ???	<a href="http://www.sprep.org/att/IRC/eCOPIES/Countries/Nauru/3.pdf">http://www.sprep.org/att/IRC/eCOPIES/Countries/Nauru/3.pdf</a>	national assessment	5	???
National coral reef status report Tonga	Lovell ER, Palaki A (2002) National coral reef status report Tonga. Pages 317 - 343 in ??? (eds). Coral reefs in the Pacific: status and monitoring, resources and management. ???	<a href="http://www.sprep.org/att/IRC/eCOPIES/Countries/Tonga/5.pdf">http://www.sprep.org/att/IRC/eCOPIES/Countries/Tonga/5.pdf</a>		5	
The status of coral reef and reef fish resources in Vanuatu	Naviti W, Aston J (2002). The status of coral reef and reef fish resources in Vanuatu. Pages 365 - 381 in ??? (eds). Coral reefs in the Pacific: status and	<a href="http://www.sprep.org/att/IRC/eCOPIES/Countries/Vanuatu/35.pdf">http://www.sprep.org/att/IRC/eCOPIES/Countries/Vanuatu/35.pdf</a>	national assessment	5	???

	monitoring, resources and management. ???				
The status of the reefs of Tuvalu	Sauni S (2002) The status of the reefs of Tuvalu. Pages 345 - 363 in ??? (eds). Coral reefs in the Pacific: status and monitoring, resources and management. ???	<a href="http://www.sprep.org/att/IRC/eCOPIES/Countries/Vanuatu/35.pdf">http://www.sprep.org/att/IRC/eCOPIES/Countries/Vanuatu/35.pdf</a>	national assessment	5	???
Wallis et Futuna status report	Vanai P (2002) Wallis et Futuna status report. Pages 383 - 410 in ??? (eds). Coral reefs in the Pacific: status and monitoring, resources and management. ???	<a href="http://www.sprep.org/att/IRC/eCOPIES/Countries/Vanuatu/35.pdf">http://www.sprep.org/att/IRC/eCOPIES/Countries/Vanuatu/35.pdf</a>	national assessment	5	???
Assessment of anthropogenic threats to New Zealand marine habitats.	Assessment of anthropogenic threats to New Zealand marine habitats. New Zealand Aquatic Environment and Biodiversity Report No. 93. 255 p			5	
Ecosystem Services of Marine Protected Areas, Department of Conservation	van den Belt, M. and Cole, A.. In review 2013. Ecosystem Services of Marine Protected Areas, Department of Conservation, Wellington, NZ			5	
Assessment of anthropogenic threats to New Zealand marine habitats	MacDiarmid, A.; McKenzie, A.; Sturman, J.; Beaumont, J.; Mikaloff-Fletcher, S.; Dunne, J. (2012). Assessment of anthropogenic threats to New Zealand marine habitats. New Zealand Aquatic Environment and Biodiversity Report No. 93.255 p	<a href="http://fs.fish.govt.nz/Doc/22981/AEBR_93.pdf">http://fs.fish.govt.nz/Doc/22981/AEBR_93.pdf</a>		5	
Marine Environment Classification (MEC)	Marine Environment Classification (MEC) Snelder, T., et al. "The New Zealand marine environment classification." NIWA Client Report CHC2004 71 (2004): 86.	Report: <a href="http://www.mfe.govt.nz/publications/ser/marine-environment-classification-jun05/marine-environment-classification-jun05.pdf">http://www.mfe.govt.nz/publications/ser/marine-environment-classification-jun05/marine-environment-classification-jun05.pdf</a> Data: <a href="http://koordinates.com/layer/3821-marine-environment-classification-eez-20-classes/">http://koordinates.com/layer/3821-marine-environment-classification-eez-20-classes/</a>		5	
Marine Biodiversity of Aotearoa New Zealand	Marine Biodiversity of Aotearoa New Zealand - Dennis P. Gordon*, Jennifer Beaumont, Alison MacDiarmid, Donald			5	

	A. Robertson, Shane T. Ahyong -National Institute of Water and Atmospheric Research, Kilbirnie, Wellington, New Zealand				
Assessment of anthropogenic threats to New Zealand marine habitats				5	
New Zealand inventory of biodiversity: Volume one; Kingdom Animalia: Radiata, Lophotrochozoa, Deuterostomia.	Gordon, DP (2009). New Zealand inventory of biodiversity: Volume one; Kingdom Animalia: Radiata, Lophotrochozoa, Deuterostomia. Canterbury University Press, Christchurch, New Zealand			5	
New Zealand inventory of biodiversity: Volume two: Kingdom Animalia: Chaetognatha, Ecydysozoa, Ichnofollisls	Gordon, DP (2010). New Zealand inventory of biodiversity: Volume two: Kingdom Animalia: Chaetognatha, Ecydysozoa, Ichnofollisls. Canterbury University Press, Christchurch, New Zealand			5	
New Zealand inventory of biodiversity: Volume three: Kingdos Bacteria, Protozoa, Chromisistae, Fungi.	Gordon, DP (2010). New Zealand inventory of biodiversity: Volume three: Kingdos Bacteria, Protozoa, Chromisistae, Fungi. Canterbury University Press, Christchurch, New Zealand			5	
The Treasures of the Sea: Nga Taonga a Tangaroa.	MacDiarmid, A (ed) (2007) The Treasures of the Sea: Nga Taonga a Tangaroa. A Summary of the Biodiversity in the New Zealand Marine Ecoregion. WWF-New Zealand. 193 p.			5	
Marine Habitat Assessment Decision Support (MarHADS) Tool-Background and Operating Instructions	MacDiarmid, AB, Taylor P, Carbines M, Hewitt J, Bolton-Ritchie L, Maharadz-Smith A, Townsend M, Thrush S, Walker J (2011a). Marine Habitat Assessment Decision Support (MarHADS) Tool-Background and Operating Instructions.			5	



	Produced for the NZ Regional Council Coastal Special Interest Group, Envirolink Contract NIWX0803, 25 p.				
Expert risk assessment of activities in the New Zealand Exclusive Economic Zone and Extended Continental Shelf	MacDiarmid, AB, Beaumont, J, Bostock, H, Bowden, D, Clark, M, Hadfield, M, Heath, P, Lamarche, L, Nodder, S, Orpin, A, Stevens, C, Thompson, D, Torres, L and Wycoczanski R (2011b). Expert risk assessment of activities in the New Zealand Exclusive Economic Zone and Extended Continental Shelf NIWA Client Report No: WLG2011-39, 145			5	
Large, Isolated, late-settled islands; potential tests of human impacts on marine ecosystems	MacDiarmid, AB (in press). Large, Isolated, late-settled islands; potential tests of human impacts on marine ecosystems. Final Research report, Project ZBD200505, MS31 Part A, to the Ministry of Fisheries. NIWA, Wellington, New Zealand, 13 p.			5	
A strategy to access trends in the ecological integrity of New Zealand's marine ecosystems.	Thrush, SF; Hewitt, JE Lundquist, C; Townsend, M; Lohrer AM (2011). A strategy to access trends in the ecological integrity of New Zealand's marine ecosystems. NIWA Client Report HAM2011-140, 58 pp.			5	
Ecosystem functioning, goods and services in the coastal environment.	Townsend, M; Thrush, S (2010). Ecosystem functioning, goods and services in the coastal environment. Prepared by the National Institute of Water and Atmospheric Research for Auckland Regional Council Technical Report 2010/033.			5	
MFish Annual review of Aquatic Environment and Biodiversity	MFish Annual review of Aquatic Environment and Biodiversity	<a href="http://fs.fish.govt.nz/Page.aspx?pk=61&amp;tk=212">http://fs.fish.govt.nz/Page.aspx?pk=61&amp;tk=212</a>		5	
Marine Protected Areas	Environmental reporting by Ministry of Environment: Marine Protected Areas	<a href="http://www.mfe.govt.nz/environmental-reporting/report-cards/marine-">http://www.mfe.govt.nz/environmental-reporting/report-cards/marine-</a>		5	

		<a href="http://reserves/2012/index.html">reserves/2012/index.html</a>			
		<a href="ftp://ftp.nodc.noaa.gov/pub/data.nodc/coris/library/NOAA/CRCP/project/20367/biogeographic_assessment_samoa.pdf">ftp://ftp.nodc.noaa.gov/pub/data.nodc/coris/library/NOAA/CRCP/project/20367/biogeographic_assessment_samoa.pdf</a>		5	
		<a href="http://www.aires-marines.fr/Documentation/AER-Polynesie-francaise">http://www.aires-marines.fr/Documentation/AER-Polynesie-francaise</a>		5	
State of the marine environment in the South Pacific region	Brodie JE, Arnould C, Eldredge L, Hammond L, Holthus P, Mowbray D, Tortell P (1990) State of the marine environment in the South Pacific region. UNEP regional seas reports and studies No. 127. SPREP Topic Review No. 40. United Nations Environment Program, Nairobi.	<a href="http://www.unep.org/regionalseas/Publications/Reports/RSRS/">http://www.unep.org/regionalseas/Publications/Reports/RSRS/</a>	regional assessment	5	UNEP/SPREP
		<a href="http://www.spc.int/DigitalLibrary/FAME/Collection/PROCFish_C">http://www.spc.int/DigitalLibrary/FAME/Collection/PROCFish_C</a>		5	
	Report of the Western South Pacific Regional Workshop to Facilitate the Description of Ecologically or Biologically Significant Marine Areas. UNEP/CBD/SBSTTA/16/INF/6	<a href="http://www.cbd.int/doc/meetings/mar/rwebsa-wspac-01/official/rwebsa-wspac-01-sbstta-16-inf-06-en.pdf">http://www.cbd.int/doc/meetings/mar/rwebsa-wspac-01/official/rwebsa-wspac-01-sbstta-16-inf-06-en.pdf</a>		5	
Pacific environment and climate change outlook	SPREP (2012) Pacific environment and climate change outlook. Secretariat of the Pacific Regional Environment Program, Apia.	<a href="http://www.sprep.org/library-information-resource-center/publications">http://www.sprep.org/library-information-resource-center/publications</a>	regional assessment	5	SPREP
global assessment		Cochrane K, De Young C, Soto D, Bahri T (eds) (2009) Climate change implications for fisheries and aquaculture: overview of current scientific knowledge. FAO Fisheries and Aquaculture Technical Paper No 530. FAO, Rome	?	5	cc
Review of critical marine habitats and species in the Pacific islands region	Bleakley C (2004) Review of critical marine habitats and species in the Pacific islands region. South Pacific Regional Environment Programme, Apia.	<a href="http://www.sprep.org/att/publication/000365_Bleakly_Report.pdf">http://www.sprep.org/att/publication/000365_Bleakly_Report.pdf</a>	regional assessment	5	SPREP
Pacific Environment	McIntyre M (2004) Pacific Environment	<a href="http://www.unep.org/geo/GEO_Regions.asp">http://www.unep.org/geo/GEO_Regions.asp</a>	regional assessment	5	UNEP

Outlook	Outlook. United National Environment Program, Nairobi				
Status of policy and target development and implementation for marine protected areas/marine managed areas in the Pacific Islands region - a preliminary assessment and future directions	Benzaken D, Miller-Taei S, Wood L (2007) Status of policy and target development and implementation for marine protected areas/marine managed areas in the Pacific Islands region - a preliminary assessment and future directions, South Pacific Regional Environment Program and Conservation International.	<a href="http://www.sprep.org/att/irc/ecopies/pacific_region/443.pdf">http://www.sprep.org/att/irc/ecopies/pacific_region/443.pdf</a>	regional assessment	5	SPREP/CI
Pacific Ocean Library		<a href="http://www.centerforoceansolutions.org/research-libraries/pacific-ocean-library">http://www.centerforoceansolutions.org/research-libraries/pacific-ocean-library</a>	publications database	5	Center for Ocean Solutions
Pacific Islands Environment Outlook	UNEP (2005) Pacific Islands Environment Outlook. United National Environment Program, Nairobi.	<a href="http://www.unep.org/geo/GEO_Regions.asp">http://www.unep.org/geo/GEO_Regions.asp</a>	regional assessment	5	UNEP
Bismark Solomon Sea Ecoregion: a cradle of marine biodiversity	Afzal D, Golder B, Hitipeuw C, Kassem K, Llewellyn G, Manele B, McCall D, Owen S, Rindorindo R, Smauel R and Wilson L (2003) Bismarck Solomon Seas Ecoregion: A cradle of marine biodiversity. WWF South Pacific Programme, Suva	<a href="http://www.wwfpacific.org.fj">www.wwfpacific.org.fj</a>	regional assessment	5	WWF
The Pacific Environment Information Network		<a href="http://www.sprep.org/virtual-library">http://www.sprep.org/virtual-library</a>	web-based information tool	5	SPREP
Horizon Pleins textes		<a href="http://horizon.documentation.ird.fr/exl-php/cadcgp.php?CMD=CHERCHE&amp;query=1&amp;MODELE=vues/horizon/accueil.html">http://horizon.documentation.ird.fr/exl-php/cadcgp.php?CMD=CHERCHE&amp;query=1&amp;MODELE=vues/horizon/accueil.html</a>	publications database	5	Institut de recherche pour le développement (IRD)
Pacific Islands GIWA assessment	South GR, Skelton P, Veitayaki J, Resture A, Carpenter C, Pratt C, Lawedrau A (2004) Global International Waters Assessment, Pacific Islands, GIWA Regional assessment 62. University of Kalmar, Kalmar.	<a href="http://www.unep.org/dewa/giwa/publications/r62.asp">http://www.unep.org/dewa/giwa/publications/r62.asp</a>	regional assessment	5	UNEP

AIMS data centre		<a href="http://data.aims.gov.au/metadataviewer/faces/search.xhtml">http://data.aims.gov.au/metadataviewer/faces/search.xhtml</a>	data holding	5	Australian Institute of Marine Science
Divisional data centre		<a href="http://www.marine.csiro.au/datacentre/">http://www.marine.csiro.au/datacentre/</a>	data holding	5	CSIRO Marine & Atmospheric Research
Australian Ocean Data Network		<a href="http://portal.aodn.org.au/webportal/">http://portal.aodn.org.au/webportal/</a>	data holding	5	Integrated Marine Observing System
Large Marine Ecosystem Portal	Sherman K, Hempel G (editors) (2009) The UNEP large marine ecosystem report. A perspective on changing conditions in LME's of the worlds regional seas. UNEP regional seas report and studies No. 182. United National Environment Program, Nairobi.	<a href="http://www.lme.noaa.gov/index.php?option=com_content&amp;view=article&amp;id=47&amp;Itemid=41">http://www.lme.noaa.gov/index.php?option=com_content&amp;view=article&amp;id=47&amp;Itemid=41</a>	regional assessment	5	UNEP
Data to inform the CBD western South Pacific regional workshop to facilitate the description of ecologically or biologically significant marine areas	Dunstan P, Fuller M (2011) Data to inform the CBS western South Pacific regional workshop to facilitate the description of ecologically or biologically significant marine areas. CSIRO Marine and Atmospheric Reserarch, Hobart.	<a href="http://www.cbd.int/doc/?meeting=RWEBSA-WSPAC-01">http://www.cbd.int/doc/?meeting=RWEBSA-WSPAC-01</a>	regional assessment	5	CSIRO Marine & Atmospheric Research
State of the Cetacean Environment Report	Stachowitsch M, Parsons ECM, Rose NA (eds) (2004). State of the Cetacean Environment Report (SOCER) 2004. Paper SC/56/E29 presented to the International Whaling Commission Scientific Committee.	<a href="http://iwc.int/socer">http://iwc.int/socer</a>	regional assessment	5	International Whaling Commission
State of the Cetacean Environment Report	Stachowitsch M, Rose NA, Parsons ECM (eds) (2009). State of the Cetacean Environment Report (SOCER) 2009. Paper SC/61/E1-DRAFT presented to the International Whaling Commission Scientific Committee.	<a href="http://iwc.int/socer">http://iwc.int/socer</a>	regional assessment	5	International Whaling Commission

Pacific Islands regional marine species programme 2008-2012	SPREP (2008) Pacific Islands regional marine species programme 2008 - 2012. Secretariat of the Pacific Regional Environment Programme, Apia	<a href="http://www.sprep.org/library-information-resource-center/publications">http://www.sprep.org/library-information-resource-center/publications</a>	regional assessment	5	SPREP
Pacific Islands regional marine species programme 2013-2017	SPREP (2013) Pacific Islands regional marine species programme 2013 - 2017. Secretariat of the Pacific Regional Environment Programme, Apia	<a href="http://www.sprep.org/library-information-resource-center/publications">http://www.sprep.org/library-information-resource-center/publications</a>	regional assessment	5	SPREP
The Coral Triangle Atlas		<a href="http://ctatlas.reefbase.org/">http://ctatlas.reefbase.org/</a>	web-based information tool	5	ReefBase
Ensemble analysis of the future distribution of large pelagic fishes off Australia	Hobday AJ (2010) Ensemble analysis of the future distribution of large pelagic fishes off Australia. Progress in Oceanography 86: 291-301.	<a href="http://www.elsevier.com/locate/pocean">www.elsevier.com/locate/pocean</a>	journal article	4	CSIRO Marine & Atmospheric Research
The deepest ocean on earth: a scientific case for establishing the Mariana Trench Marine National Monument	Kelsey E (2008) The deepest ocean on earth: a scientific case for establishing the Mariana Trench National Monument. Global Ocean Legacy	<a href="http://www.sprep.org/att/IRC/eCOPIES/Countries/Commonwealth_of_Northern_Marianas/9.pdf">http://www.sprep.org/att/IRC/eCOPIES/Countries/Commonwealth_of_Northern_Marianas/9.pdf</a> <a href="http://www.globaloceanlegacy.org/resources/deepest_ocean.pdf">http://www.globaloceanlegacy.org/resources/deepest_ocean.pdf</a>	regional assessment	3	Global Ocean Legacy
Coral reef status report		<a href="http://www.reefbase.org/resource_center/publication/statusreport.aspx">http://www.reefbase.org/resource_center/publication/statusreport.aspx</a>	publications database	2	Reefbase
Reefs at risk revisited	Burke L, Reytar K, Spalding M, Perry A (2011) Reefs at risk revisited. World Resources Institute, Washington DC.	<a href="http://www.wri.org/publication/reefs-at-risk-revisited">http://www.wri.org/publication/reefs-at-risk-revisited</a>	global assessment	1	World Resources Institute
World network of biosphere reserves 2010: sites for sustainable development	UNESCO MAB (2011) World network of biosphere reserves 2010: sites for sustainable development. UNESCO MAB, Paris.	<a href="http://unesdoc.unesco.org/Ulis/cgi-bin/ulis.pl?catno=207049&amp;gp=1&amp;lin=1&amp;ll=1">http://unesdoc.unesco.org/Ulis/cgi-bin/ulis.pl?catno=207049&amp;gp=1&amp;lin=1&amp;ll=1</a>	global assessment	1	UNESCO-MAB
Ecosystemes de lagons de la Polynesie francais	Intes MA (1991) Ecosystemes de lagons de la Polynesie francais. PNUE Rapports et etudes des mers regionales No 137. SPREP rapports et etides No 51. Programme des Nations Unies pour l'environnement, Nairobi.	<a href="http://www.unep.org/regionalseas/Publications/Reports/RSRS/">http://www.unep.org/regionalseas/Publications/Reports/RSRS/</a>	national assessment	1	UNEP
Case study: the Funafuti Conservation Area, Funafuti Atoll, Tuvalu.	Berdach JT (2003) Case study: the Funafuti Conservation Area, Funafuti Atoll, Tuvalu. Drawing lessons for future	<a href="http://www.sprep.org/att/irc/ecopies/countries/tuvalu/58.pdf">http://www.sprep.org/att/irc/ecopies/countries/tuvalu/58.pdf</a> <a href="http://www.adb.org/Projects/PRES/pres_cas">http://www.adb.org/Projects/PRES/pres_cas</a>	within country assessment	1	James T Berdach Consulting

Drawing lessons for future marine conservation planning and management	marine conservation planning and management. James T Berdach Consulting Services, Hawaii.	e_funafuti.pdf			Services
Conserving the marine biodiversity of Marovo Lagoon, Solomon Islands: development of environmental management initiatives that will conserve the marine biodiversity and productivity of Marovo Lagoon, Solomon Islands.	The University of Queensland (2007) Conserving the marine biodiversity of Marovo Lagoon, Solomon Islands: development of environmental management initiatives that will conserve the marine biodiversity and productivity of Marovo Lagoon, Solomon Islands. The University of Queensland, Brisbane.	<a href="http://www.sprep.org/att/IRC/eCOPIES/Countries/Solomon_Islands/38.pdf">http://www.sprep.org/att/IRC/eCOPIES/Countries/Solomon_Islands/38.pdf</a>	project proposal	1	The University of Queensland
Demographic baseline report of US territories and countries adjacent to coral reef habitats	Crosset KM, Clement CG, Rohmann SO (2008) Demographic baseline report of US territories and countries adjacent to coral reef habitats. NOAA, National Ocean Service, Silver Spring.	<a href="http://www.sprep.org/Pacific-Environment-Information-Network/country-profiles-directory">http://www.sprep.org/Pacific-Environment-Information-Network/country-profiles-directory</a>	national assessment	1	NOAA
A controlling factor approach to estuary classification.	Hume, T; Snelder, T Waetherhead, M Liefiting, P (2007). A controlling factor approach to estuary classification. Journal of Ocean and Coastal Management Volume 50, Issues 11-12, Pages 905-929.			1	
A new approach to cladding New Zealand's estuaries	Hume, T; Snelder, T Waetherhead, M Liefiting, P, R Shankar, U; Hicks, M (2003). A new approach to cladding New Zealand's estuaries. Paper No. 66 in Kench P. and Hume T (eds) Proceedings of Coasts and Ports Australasian Conference 203, Auckland, New Zealand. 9p CDRom ISBN 0-473-09832-6			1	
Water quality studies on selected South Pacific lagoons	Naidu S, Aalbersberg WGL, Brodie JE, Fuavao VA, Maata M, Naqasima M, Whippy P, Morrison RJ (1991) Water quality studies on selected South Pacific	<a href="http://www.unep.org/regionalseas/Publications/Reports/RSRS/">http://www.unep.org/regionalseas/Publications/Reports/RSRS/</a>	regional assessment	1	UNEP/SPREP

	lagoons. UNEP Regional Seas Reports and Studies No. 136. SPREP Reports and Studies No. 49. United Nations Environment Program, Nairobi.				
Lessons from biosphere reserves in the Asia-Pacific region and a way forward - a regional review of biosphere reserves in Asia and the Pacific to achieve sustainable development	UNESCO (2010) Lessons from biosphere reserves in the Asia-Pacific region and a way forward - a regional review of biosphere reserves in Asia and the Pacific to achieve sustainable development. UNESCO, Paris.	<a href="http://unesdoc.unesco.org/images/0018/001883/188345e.pdf">http://unesdoc.unesco.org/images/0018/001883/188345e.pdf</a>	regional assessment	1	UNESCO-MAB
National Biodiversity Strategic Action Plan		<a href="http://www.cbd.int/nbsap/">http://www.cbd.int/nbsap/</a>	national assessment	0	Individual countries
Ministry for Environment (2007)	Ministry for Environment (2007) Environment New Zealand 2007	<a href="http://www.mfe.govt.nz/publications/ser/enz07-dec07/">http://www.mfe.govt.nz/publications/ser/enz07-dec07/</a>		0	
The ecosystems of small islands in the Southwest Pacific (the sixth expedition of the SS "Callisto")	Pernetta JC and Manner HI (eds) (1994) The ecosystems of small islands in the Southwest Pacific (the sixth expedition of the SS "Callisto"). UNEP Regional Seas Reports and Studies No. 151. SPREP Reports and Studies No. 63. United Nations Environment Program, Nairobi.	<a href="http://www.unep.org/regionalseas/Publications/Reports/RSRS/">http://www.unep.org/regionalseas/Publications/Reports/RSRS/</a>	regional assessment	0	UNEP/SPREP
Australian Marine Mammal Centre Projects		<a href="http://data.marinemammals.gov.au/various/grants/">http://data.marinemammals.gov.au/various/grants/</a>	funded project database	0	Australian Government Department of Sustainability, Environment, Water, Population and Communities

## 5 Completed Templates from the Workshop Breakout Groups

### Group1 Biophysical aspects.

#### Overall Points Related to Completing the Table and the Biophysical Aspects Part of the South West Pacific Assessment

<p>Topics (e.g. Oceans' roles in hydrological cycle) and Sub-Topics (e.g. Freshwater fluxes...) to Include in the SW Pacific Assessment</p> <p><i>Task: review and add any new topics or sub-topics</i></p>	<p>Relevant Studies, Documents, Reports and Other Sources of Information (refer to the Inventory list)</p> <p><i>Task: identify relevant sources of information, including but not limited to the Inventory list</i></p>	<p>Priority Individuals &amp; Institutions to Engage (email; who suggested)</p> <p><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></p>	<p>Information Gaps</p> <p><i>Task: note sub-topics lacking information</i></p>	<p>Comments</p>
<p>Oceans' roles in hydrological cycle (Chapter 4)</p> <ul style="list-style-type: none"> <li>• Freshwater fluxes into the ocean, sea ice, sea level</li> <li>• Socioeconomic implications of ocean warming, sea</li> </ul>	<p><b>Broad studies of the SW Pacific Region and associated regions-contributes to all chapters</b></p> <ol style="list-style-type: none"> <li>1. The Marine Climate Change - Impacts and Adaptation Report Card for 2012 <a href="http://www.oceanclimatechange.org.au/content/index.php/2012/home/">http://www.oceanclimatechange.org.au/content/index.php/2012/home/</a></li> <li>2. Climate Change Vulnerability of Fisheries in Tropical Ocean <a href="http://www.spc.int/climate-change/fisheries/assessment/e-book/files/mobile/index.html#1">http://www.spc.int/climate-change/fisheries/assessment/e-book/files/mobile/index.html#1</a></li> <li>3. Climate change and the Great Barrier Reef: a vulnerability assessment,</li> </ol>	<ol style="list-style-type: none"> <li>1. Bureau of Meteorology (BOM), Australia</li> <li>2. James Cook University (JCU), Australia</li> <li>3. Secretariat of the Pacific Community (SPC)</li> <li>4. Institut de Recherche pour le</li> </ol>	<ul style="list-style-type: none"> <li>• River discharges both freshwater volume and nutrient inputs.</li> <li>• Biogeochemical understanding of ocean system in region (capacity building needed).</li> </ul>	<p>Capacity building Bio-physical modelling.</p>



<p>level change, and freshwater fluxes</p> <ul style="list-style-type: none"> <li>• Changes in chemical composition of seawater – salinity and nutrients – and their socioeconomic implications</li> <li>• Ocean heat transport, ocean circulation, and patterns – El Nino – and their socioeconomic implications</li> </ul>	<p>Johnson JE, Marshall PA (editors) (2007) Climate change and the Great Barrier Reef. Great Barrier Reef Marine Park Authority and Australian Greenhouse Office, Australia,  <a href="http://www.gbrmpa.gov.au/resources-and-publications/publications/climate-change-and-the-great-barrier-reef-a-vulnerability-assessment">http://www.gbrmpa.gov.au/resources-and-publications/publications/climate-change-and-the-great-barrier-reef-a-vulnerability-assessment</a></p> <p>4. Pacific Climate Change Science Project  <a href="http://www.cawcr.gov.au/projects/PCCSP/">http://www.cawcr.gov.au/projects/PCCSP/</a></p> <p>5. Solomon S, Qin D, Manning M, Chen Z, Marquis M. Averyt KB, Tignor M, Miller HL (eds) (2007) Contribution of working group I to the fourth assessment report of the Intergovernmental Panel on Climate Change, 2007. Cambridge University Press, Cambridge.</p> <p>6. Southwest Pacific Ocean Circulation and Climate Experiment (SPICE)   CLIVAR  <a href="http://www.clivar.org/organization/resources/southwest-pacific-ocean-circulation-and-climate-experiment-spice">http://www.clivar.org/organization/resources/southwest-pacific-ocean-circulation-and-climate-experiment-spice</a></p> <p><b>Sea Level Rise</b></p> <ul style="list-style-type: none"> <li>• GLOSS Database (rise in sea level network)  <a href="http://www.gloss-sealevel.org/">http://www.gloss-sealevel.org/</a></li> <li>• Pacific Climate Change Science Project (PCCSP)  <a href="http://www.cawcr.gov.au/projects/PCCSP/">http://www.cawcr.gov.au/projects/PCCSP/</a>  <a href="http://www.bom.gov.au/climate/pccsp/">http://www.bom.gov.au/climate/pccsp/</a></li> <li>• Cazenave, A. and R.S. Nerem. (2004). “Present-day sea level change: observations and causes”. Reviews of Geophysics, 42, RG3001.</li> <li>• Hay, J. et al. (2003). “Climate Variability and Change and Sea-level Rise in the Pacific Islands Region: A Resource Book for Policy and Decision Makers, Educators and Other Stakeholders”. Apia, South Pacific Regional Environment</li> </ul>	<p>Développement (IRD) , Noumea</p> <ol style="list-style-type: none"> <li>5. Hawaiian Institute of Geophysics</li> <li>6. National Oceanic and Atmospheric Administration (NOAA)</li> <li>7. Japan Agency for Marine –Earth Science and Technology (Jamstec)</li> <li>8. Pacific Islands Ocean Observing System (PacIOOS) Hawaii</li> <li>9. Pacific Islands Global Ocean Observing System (PIGOOS) SPREP</li> <li>10. Secretariat of the Pacific Community Applied Geoscience and Technology Division (SOPAC) for chapters 4 and 5</li> <li>11. The Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia</li> <li>12. LEGOS  <a href="http://www.legos.obs-mip.fr">www.legos.obs-mip.fr</a></li> <li>13. Flinders University, Australia</li> <li>14. National Institute of</li> <li>15.</li> </ol>	<ul style="list-style-type: none"> <li>• Science products and synthesis from global science studies in region to enable assessments and impacts to be identified.</li> <li>• Social economic impacts freshwater fluxes, sea level and El Nino, changes in ocean circulation.</li> </ul>	
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	<p>Programme.</p> <p><b>Freshwater Fluxes</b></p> <ul style="list-style-type: none"> <li>• Durack, Wijffels, J. <i>Climate</i>, 23, 4342-63, 2010</li> <li>• Climate change and the Great Barrier Reef: a vulnerability assessment, Johnson JE, Marshall PA (editors) (2007) <i>Climate change and the Great Barrier Reef</i>. Great Barrier Reef Marine Park Authority and Australian Greenhouse Office, Australia, <a href="http://www.gbrmpa.gov.au/resources-and-publications/publications/climate-change-and-the-great-barrier-reef-a-vulnerability-assessment">http://www.gbrmpa.gov.au/resources-and-publications/publications/climate-change-and-the-great-barrier-reef-a-vulnerability-assessment</a></li> <li>• OzCoasts <a href="http://www.ozcoasts.gov.au">http://www.ozcoasts.gov.au</a></li> </ul> <p><b>Socioeconomic implications</b></p> <ul style="list-style-type: none"> <li>• Major vulnerability report <a href="http://www.spc.int/climate-change/fisheries/assessment/e-book/files/mobile/index.html#1">http://www.spc.int/climate-change/fisheries/assessment/e-book/files/mobile/index.html#1</a></li> <li>• Solomon S, Qin D, Manning M, Chen Z, Marquis M. Averyt KB, Tignor M, Miller HL (eds) (2007) <i>Contribution of working group I to the fourth assessment report of the Intergovernmental Panel on Climate Change</i>, 2007. Cambridge University Press, Cambridge.</li> </ul> <p><b>Changes in chemical composition of seawater</b></p> <ul style="list-style-type: none"> <li>• DATA: IOC –related IOCCP – global program <a href="http://www.ioccp.org/DataProds.html">http://www.ioccp.org/DataProds.html</a></li> <li>• SCRIPPS Institute of Oceanography, University of San Diego</li> <li>• Impacts of atmospheric anthropogenic nitrogen on the open ocean RA Duce, J LaRoche, K Altieri, KR Arrigo, AR Baker... - <i>science</i>, 2008 -</li> </ul>	<p>Water and Atmospheric Research (NIWA)</p> <ol style="list-style-type: none"> <li>16. University of the South Pacific (USP)</li> <li>17. University of Tasmania (UTAS), Australia</li> <li>18. The Australian Institute of Marine Sciences (AIMS)</li> <li>19. International Seabed Authority</li> <li>20. University of Wollongong (sea level)</li> </ol>		
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	<p>sciencemag.orgsciencemag.org</p> <ul style="list-style-type: none"> <li>• Pre-industrial and contemporary fluxes of nitrogen through rivers: a global assessment based on typology PA Green, CJ Vörösmarty, M Meybeck, JN Galloway... - Biogeochemistry, 2004 – Springer</li> <li>• Riverine nitrogen export from the continents to the coasts EW Boyer, RW Howarth, JN Galloway... - Global Biogeochemical ..., 2006 - agu.orgagu.org</li> <li>• Current nitrogen inputs to world regions EW Boyer, RW Howarth, JN Galloway... - ... and the nitrogen ..., 2004 - books.google.com</li> <li>• Goship data <a href="http://www.go-ship.org/About.html">http://www.go-ship.org/About.html</a> (will have nutrient data available)</li> </ul> <p><b>Ocean Heat Transport</b></p> <ul style="list-style-type: none"> <li>• ARGO program (National Oceanic and Atmospheric Administration (NOAA))</li> <li>• Southwest Pacific Ocean Circulation and Climate Experiment (SPICE)   CLIVAR <a href="http://www.clivar.org/organization/resources/southwest-pacific-ocean-circulation-and-climate-experiment-spice">http://www.clivar.org/organization/resources/southwest-pacific-ocean-circulation-and-climate-experiment-spice</a></li> <li>• Stern, N. (2007). “How Climate Change Will Affect People Around the World.” The Economics of Climate Change: The Stern Review Cambridge, Cambridge University Press. : 65-103.</li> </ul>			
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<p>Sea/air interaction (Chapter 5)</p> <ul style="list-style-type: none"> <li>• Atmospheric fluxes, oxygen production, carbon dioxide sequestration</li> <li>• Hurricanes and typhoons, monsoon, trade winds</li> <li>• Trends in meteorological phenomena and their socioeconomic implications</li> <li>• Ocean acidification and the socioeconomic implications</li> </ul>	<ul style="list-style-type: none"> <li>• International Ocean Carbon Coordination Project – global program <a href="http://www.ioccp.org">www.ioccp.org</a>.</li> <li>• Pacific Climate Change Science Program (PCCSP) <a href="http://www.pacificclimatefutures.net/">http://www.pacificclimatefutures.net/</a></li> <li>• Intergovernmental Panel on Climate Change (IPCC) Assessment</li> <li>• State of the Climate 2012, <a href="http://www.bom.gov.au/inside/publications.shtml">http://www.bom.gov.au/inside/publications.shtml</a> , CSIRO and the Bureau of Meteorology (2012) State of the Climate 2012. CSIRO and the Bureau of Meteorology, Australia</li> <li>• EM-DAT Database – <a href="http://www.emdat.be">www.emdat.be</a></li> <li>• Stern, N. (2007). “How Climate Change Will Affect People Around the World.” The Economics of Climate Change: The Stern Review Cambridge, Cambridge University Press. : 65-103.</li> <li>• Impacts of atmospheric anthropogenic nitrogen on the open ocean RA Duce, J LaRoche, K Altieri, KR Arrigo, AR Baker... - science, 2008 - sciencemag.org</li> </ul> <p><b>Trends in meteorological</b></p> <ul style="list-style-type: none"> <li>• UNESCO Intergovernmental Oceanographic Commission (IOC)</li> <li>• Joint Technical Commission for Oceanography and Marine Meteorology (JCOMM)</li> <li>• Mimura, N., Nurse L., McLean, R.F., Agard, J., Briguglio L., Lefale, P., Payet, R. and Sem, G., (2007). “Small Islands”. Climate Change 2007: Impacts,</li> </ul>	<ol style="list-style-type: none"> <li>1. Secretariat of the Pacific Regional Environment Programme (SPREP)</li> <li>2. Bureau of Meteorology (BOM)JCOMM</li> <li>3. National Institute of Water and Atmospheric Research (NIWA, Ocean Acidification, carbon sequestration)</li> <li>4. New Zealand MetService</li> <li>5. Geoscience Australia (GA)</li> <li>6. The Commonwealth Scientific And Industrial Research Organisation (CSIRO)</li> <li>7. University of Tasmania (UTAS), Australia</li> <li>8. Secretariat of the Pacific Regional Environment Programme (SPREP)</li> <li>9. University of the South Pacific</li> <li>10. Fiji Meteorological Centre</li> <li>11. Bureau of Meteorology</li> <li>12. University of Waikato</li> </ol>	<ul style="list-style-type: none"> <li>• Ocean chemistry observations (pCO<sub>2</sub>, nutrients)</li> <li>• Socioeconomic impacts</li> <li>• Meteorological phenomena and ocean acidification</li> <li>• Effects of multiple stresses</li> </ul> <p><b>Expertise gaps</b></p> <ul style="list-style-type: none"> <li>• Socioeconomic – anthropology, economics, social science</li> <li>• Meteorological</li> <li>• Ocean acidification</li> <li>• Monsoon</li> <li>• Trade winds and hurricanes</li> </ul>	
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	<p>Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change. O. F. C. M.L. Parry, J.P. Palutikof, P.J. van der Linden and C.E. Hanson. Cambridge, Cambridge University Press. 687-716.</p> <p><b>Ocean Acidification</b></p> <ul style="list-style-type: none"> <li>European Project on Ocean Acidification (EPOCA) <a href="http://www.epoca-project.eu">www.epoca-project.eu</a></li> </ul>	13. Secretariat of the Pacific Community Applied Geoscience and Technology Division (SOPAC) - socioeconomic		
<p>Primary production, cycling of nutrients, surface layer and plankton (Chapter 6)</p> <ul style="list-style-type: none"> <li>Primary production distribution</li> <li>Surface layer and plankton, factors influencing the surface layer and species variation</li> <li>Socioeconomic implications of primary production trends and other factors affecting food webs</li> </ul>	<ul style="list-style-type: none"> <li>IOC – UNESCO Harmful Algal Bloom Program <a href="http://ioc-unesco.org/hab/">http://ioc-unesco.org/hab/</a></li> <li>Repeat Hydrography (nutrients) <a href="http://www.cchdo.ucsd.edu/maps/pac_aust.html">www.cchdo.ucsd.edu/maps/pac_aust.html</a></li> <li>Secretariat of the Pacific Community Applied Geoscience and Technology Division (SOPAC) – STAR 2012, Kuchinke M and Lenton A “Ocean acidification and ENSO: Decadal trends in the western equatorial Pacific sea surface aragonite saturation state” <a href="http://www.sopac.org/sopac/star/STAR%20Abstracts%20vol2012_16Oct2012.pdf">http://www.sopac.org/sopac/star/STAR%20Abstracts%20vol2012_16Oct2012.pdf</a></li> </ul>	<ol style="list-style-type: none"> <li>National Institute of Water and Atmospheric Research (NIWA)</li> <li>The Commonwealth Scientific and Industrial Research Organisation (CSIRO)</li> <li>University of Queensland (UQ)</li> <li>University of Tasmania (UTAS)</li> <li>CSIRO Plankton specialists</li> <li>University of New South Wales (UNSW Zooplankton)</li> </ol>	<ul style="list-style-type: none"> <li>Science products and synthesis from global science studies in region to enable assessments and impacts to be identified.</li> <li>Lack of understanding of open ocean ecosystem function.</li> <li>Finer scale coastal areas (biological processes/ecosystems)</li> <li>Socioeconomic implications of primary production trends and other factors affecting food webs (knowledge and expertise).</li> </ul>	Large data and socioeconomic gaps
Ocean-sourced carbonate	<ul style="list-style-type: none"> <li>Fiji Ministry of Tourism (2006). “Adaptation to Climate Change in the Tourism Sector in the Fiji Islands: Summary Report of the Initial Stakeholder</li> </ul>	1. Secretariat of the Pacific Community	<ul style="list-style-type: none"> <li>Understanding of impacts of multiple</li> </ul>	Carbonate production –

<p>production (Chapter 7)</p> <ul style="list-style-type: none"> <li>• Role of ocean-sourced carbonate production in the formation of atolls and beaches and potential impacts of ocean acidification</li> </ul>	<p>Workshop.” Fiji Ministry of Tourism with the United Nations World Tourism Organisation and the United Nations Environment Programme, Suva, Fiji.</p> <ul style="list-style-type: none"> <li>• Stern, N. (2007). “How Climate Change Will Affect People Around the World.” The Economics of Climate Change: The Stern Review Cambridge, Cambridge University Press. : 65-103.</li> </ul>	<p>Applied Geoscience and Technology Division (SOPAC)</p> <ol style="list-style-type: none"> <li>2. University of Victoria, Australia</li> <li>3. University of Wollongong, Australia</li> <li>4. Australian Defence Force Academy</li> <li>5. University of the South Pacific (USP)</li> <li>6. James Cook University (JCU), Australia</li> <li>7. The Australian Institute of Marine Sciences (AIMS)</li> <li>8. United Nations Environment Programme (UNEP)</li> <li>9. Marsay University</li> <li>10. University of Sydney</li> </ol>	<p>stresses on carbonate production rates.</p> <ul style="list-style-type: none"> <li>• Socioeconomic impacts/consequences. Interference and cost to society – loss of tourism, coastal protection, amenity, population pressures (gaps in knowledge and expertise).</li> </ul>	<p>longevity of islands. This has not had a lot of focus to date.</p>
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## Group2 Food security and safety aspects

### Overall Points Related to Completing the Table and the Food Security and Food Safety Part of the SW Pacific region Assessment

Topics	Relevant Sources of Information	Priority Individuals & Institutions to Engage (email; who suggested)	Information Gaps	Comments
<p>Capture fisheries (Chapter 11)</p> <ul style="list-style-type: none"> <li>Commercial fish and shellfish stocks status and factors affecting large-scale industrial, artisanal, and recreational sectors and their socioeconomic implications               <ol style="list-style-type: none"> <li>Large scale tuna fisheries large scale, including bycatch and discards</li> <li>Tropical tuna fisheries small scale fisheries, including bycatch and discards</li> <li>Deep sea non-migratory</li> <li>Subtropical oceanic migratory</li> <li>Temperate fisheries</li> <li>Invertebrate fisheries</li> <li>Coastal lagoon</li> <li>Other</li> </ol> </li> <li>Other fish and shellfish stocks status and factors affecting artisanal and recreational sectors and their socioeconomic implications</li> <li>Effects of pollution and the socioeconomic implications</li> <li>Scale, location and impact on fish stocks of illegal,</li> </ul>	As per the preliminary inventory	<p><b><u>Sub-tropical &amp; Tropical oceanic fisheries, migratory, large scale small scale-fisheries</u></b></p> <p><i>Organisations</i> – Pacific Islands Forum Fisheries Agency (FFA), Secretariat of the Pacific Community (SPC), Secretariat of the Pacific Regional Environment Programme (SPREP), Western and Central Pacific Fisheries Commission (WCPFC), Southeast Asian Fisheries Development Center (SEAFDEC), National Oceanic and Atmospheric Administration (NOAA), Fish &amp; Wildlife, Western Pacific Regional Fishery Management Council (WPRFMC), The Parties to the Nauru Agreement (PNA), University of the South Pacific (USP), The Australian National Centre for Ocean Resources and Security (ANCORS), The Commonwealth Scientific and Industrial Research Organisation (CSIRO), James Cook University (JCU, Australia), The Australian National University (ANU), University of British Columbia, University of Hawaii, South Pacific Regional Fisheries Management Organisation (SPRFMO), TRAFFIC, World Wildlife Fund (WWF), International Union for Conservation of Nature (IUCN), PEW, Greenpeace, Food and Agriculture Organization (FAO), International Seafood Sustainability Foundation (ISSF), Australian Bureau of</p>	<p>Common consensus on baselines</p> <p>Data on artisanal &amp; coastal fisheries (PICTs)</p> <p>Data on recreational fisheries (Australia, New Zealand)</p> <p>Limited knowledge available of large scale fisheries and their ecosystem impacts</p> <p>Patchy data, need to qualify results when using/analysing the data</p>	<p>Climate Change considerations. Offshore fisheries and coastal fisheries separated. Offshore fisheries has much more data available.</p> <p>What baseline are we using?</p> <p>Number of databases available but only when an assessment, such as the WCPFC year book, is prepared should these be included</p> <p><u>Priorities:</u></p> <p>Livelihoods and coastal fisheries, assessing it, it is significant scale of national dependence, important source of protein</p> <p>food security and its significance for protein, key species.</p> <p>Gender. Role of women in livelihoods and markets in fisheries</p> <p>Consistent with increased trends to ebm, there are growing assessments on bring in ecosystems components and tropic interactions</p> <p>Contribution of wcpo fisheries to food security (role of this region in providing high value species to the globe, not limited to feeding just the region) markets, trade, market trades, profitability, cost of fisheries (fuel, labour, trends of where crews and labour come from).</p> <p>Tuna as development aspiration, utilising these resources for SID development.</p> <p>Flow of benefits and conservation burden issues.</p>

<p>unreported and unregulated fishing</p> <ul style="list-style-type: none"> <li>• Projections of status of fish and shellfish over the next decade</li> </ul> <p>Other social and economic aspects of fisheries and sea-based food (Chapter 15)</p> <ul style="list-style-type: none"> <li>• Health benefits and contamination risks</li> <li>• Employment and injuries</li> <li>• Socioeconomic implications of fisheries in social structure</li> <li>• Implementation of international fisheries agreements</li> </ul> <p>Long-distance transport of landed fish and shellfish</p>		<p>Agricultural and Resource Economics and Sciences (ABARES), Marine Stewardship Council (MSC), Australian Fisheries Management Authority (AFMA), Birdlife International</p> <p><b><u>Coastal/lagoon</u></b></p> <p><i>Organisations</i> – Secretariat of the Pacific Community (SPC), Worldfish, Food and Agriculture Organization (FAO), University of the South Pacific (USP), Secretariat of the Pacific Regional Environment Programme (SPREP), The Australian National Centre for Ocean Resources and Security (ANCORS), James Cook University (JCU, Australia), The Commonwealth Scientific and Industrial Research Organisation (CSIRO), the council, National Oceanic and Atmospheric Administration (NOAA), World Wildlife Fund (WWF), Conservation International (CI), The Nature Conservancy (TNC), The Australian Institute of Marine Sciences (AIMS), Arafura and Timor Seas Ecosystem Action Program (ATSEA), The Australian National University (ANU), CDU, The Australian Institute of Marine Sciences (AIMS), University of Hawaii</p> <p><b><u>Temperate fisheries, other, deep seas, SBT</u></b></p> <p><i>Organisations</i> - South Pacific Regional Fisheries Management Organisation (SPRFMO), National Institute of Water and Atmospheric Research (NIWA), The Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australian Fisheries Management Authority (AFMA), Food and Agriculture Organization (FAO), The Australian National Centre for Ocean</p>	<p>Assessment of trends in access revenue and percentage of landed value.</p> <p>Heavily impacted by climate change.</p> <p>Illegal, Unreported and Unregulated (IUU) fishing activities.</p> <p>Assessment includes the implementation of international fisheries agreements that reflects the institutional instruments and social/cultural concerns, and an assessment of these consequences.</p> <p>Assess status of management against the targets.</p> <p>Trends of level of fisheries under management, and the range of measures.</p> <p>Increased interest in WCPO and therefore increased effort.</p> <p>Development, technical changes in fleet structure, techniques, capacities, subsidies.</p> <p>Management responses to social concerns regarding food security</p> <p>Needs on recreational fisheries/charter fisheries/fisheries related tourism</p> <p>Impacts of land based pollution, varies by island.</p> <p>Reclamation and urbanisation/infrastructure impacts on capture fisheries, waste impacts</p> <p>Ciguatera, access, food safety issues, and food safety matters.</p> <p>Information requirements/institutional requirements to meet food safety, heavy metals(a gap) and other export requirements (i.e. competent authorities)</p> <p>Institutional capacity to rest international fisheries agreement and reporting requirements</p>
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		Resources and Security (ANCORS), The Institute for Marine and Antarctic Studies (IMAS) , Fisheries Research and Development Corporation (FRDC), Australian Bureau of Agricultural and Resource Economics and Sciences (ABARES), Commission for the Conservation of Southern Bluefin Tuna (CCSBT), Deepsea conservation coalition, World Wildlife Fund (WWF), Deep water group/NZ industry, Birdlife International, University of Massey, University of Queensland (UQ, Australia), University of Auckland, Centre of Oceans Solutions		<p>Social licence and certification for capture fisheries</p> <p>Employment in both oceans and coastal ports, infrastructures, observers, processing, crews.</p> <p>Air transport</p> <p>Employment benefits and costs (i.e. injuries, deaths, processing etc)</p> <p>Processing dependents, shore based activities.</p> <p>Economics of transshipment,</p> <p>Marine ornamentals</p>
<p>Aquaculture &amp; mariculture (Chapter 12)</p> <ul style="list-style-type: none"> <li>• Economic magnitude, location and species of aquaculture activities and their ecosystem and socioeconomic impacts</li> <li>• Impacts of chemical pollution and contamination of wild fisheries</li> <li>• Projections of aquaculture activities over the next decade</li> </ul>	As per the preliminary inventory	<p><i>Organisations</i> – Secretariat of the Pacific Community (SPC), University of the South Pacific (USP), Australian Centre for International Agricultural Research (ACIAR), James Cook University (JCU), The Commonwealth Scientific and Industrial Research Organisation (CSIRO), Worldfish, World Wildlife Fund (WWF), The Nature Conservancy (TNC), Conservation International (CI), French Research Institute for Exploration of the Sea (IFREMER), Cawthorn Inst., The National Institute of Water and Atmospheric Research (NIWA), Fisheries Research and Development Corporation (FRDC), Australian Bureau of Agricultural and Resource Economics and Sciences (ABARES), The Institute for Marine and Antarctic Studies (IMAS), Food and Agriculture Organization (FAO)</p>		<p>Pearls &amp; shrimp significant particularly for cook islands (just pearls), French Polynesia &amp; New Caledonia</p> <p>Aus/nz – sbt, lobster, salmon, oysters etc</p> <p>Many PI states have aquaculture/mariculture activities of small levels, some are local significance, but many with weak technical, weak infrastructure, and high costs</p> <p>Lack of business developed and donor proponent support for business</p> <p>Future scenarios – alteration of the pearl market – food security as growing driver for aquaculture/mariculture to part fill looming gap in capture fisheries food security - development of smaller finfish operation – beche de mere farming - research trials underway - development in boutique aquaculture mariculture operations – partnerships (PPS) and government</p>
<p>Fish stock propagation (Chapter 13)</p> <ul style="list-style-type: none"> <li>• Rebuilding depleted stocks</li> <li>• Ecosystems and</li> </ul>	As per the preliminary inventory			<p>Fish stock propagation – giant clam, trochus, grouper, mangrove, coral, beche de mere, sea horse</p>

socioeconomic impacts of artificial propagation on natural ecosystems				
<p>Seaweeds and other sea-based food (Chapter 14)</p> <ul style="list-style-type: none"> <li>Economic magnitude and location of food other than fish and shellfish and their ecosystem and socioeconomic impacts</li> </ul>	As per the preliminary inventory			<p>Farmed seaweeds, wild seaweeds, invasive seaweeds,</p> <p>Invasive seaweeds originating from commercial operation</p> <p>Some operations throughout the region, locally significant (tonga,Fiji, xx) but not very significant regionally</p> <p>Blue carbon opportunity</p>
Oceans and seas as sources of food (Chapter 10)	As per the preliminary inventory	See above	See above	See above

## Group3 Socioeconomic aspects

### Overall Points Related to Completing the Table and the Food Security and Food Safety Part of the SW Pacific region Assessment

Topics	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
<p><b>Scientific understanding of ecosystem services</b> (Chapter 3)</p> <ul style="list-style-type: none"> <li>• Shoreline protection</li> <li>• Carbon storage</li> <li>• Natural products (i.e. ornamental fish, shells...)</li> <li>• Jobs &amp; livelihoods</li> </ul> <p>Other suggested topics: Carbon <b>and heat</b> absorption; as well as other services as identified in Costanza et al.</p>	<p>Costanza et al., “The Value of the World’s Ecosystem Services” - this document identified 17 ecosystem services.</p> <p>“Ecosystem Goods and Services in Marine Protected Areas” (New Zealand, still under review)</p> <p>Great Barrier Reef Water Quality Protection Plan</p> <p>International Union for Conservation of Nature (IUCN) and UNEP, and GRID Arendal studies on Blue Carbon</p> <p>World Bank WAVES Group studies</p> <p>Earth Economics – EVT Toolkit</p> <p>TEEB (for oceans is in progress)</p> <p>UNEP GRIP Arendal –Green Economy in a Blue World, SIDS study under preparation</p>	<p>International Union for Conservation of Nature (IUCN) Blue Carbon Working Groups</p> <p>World Bank</p> <p>Secretariat of the Pacific Community (SPC) – Secretariat of the Pacific Community Applied Geoscience and Technology Division (SOPAC) - shoreline protection</p> <p>Ecosystem Services Partnership – Oceania Chapter (meeting in Bali in November 2013)</p> <p>Marine Ecoservices Partnership, Duke University</p> <p>United Nations System of Environmental-Economic Accounting (SEEA)</p>	<p>Ecosystem service assessment and modelling for the south-west Pacific region</p>	<p>Participants considered this to be an important topic for the Regular Process. It was felt that it would be useful if the Regular Process report highlighted ecosystem services as a framework concept.</p>
<p><b>Aesthetic, cultural, religious and spiritual ecosystem services derived from the sea</b> (Chapter 8)</p> <ul style="list-style-type: none"> <li>• Human interactions with the oceans on aesthetic, cultural, religious and</li> </ul>	<p>Patterson and Glavovic., “Ecological Economics and Oceans, Coasts,” (chapter on cultural issues by Charlotte Sunde)</p> <p>UNESCO WHC – reports and assessments for relevant World Heritage sites in the region</p> <p>Management planning documents based on co-management or incorporation of traditional knowledge and customary use – e.g. in New Zealand, Australia,</p>	<p>National Institute of Water and Atmospheric Research (NIWA) (work on traditional knowledge in relation to the role of marine and coastal environments, and how this is taken into account regarding decision making etc)</p> <p>University of Auckland</p>	<p>Reports capturing traditional knowledge and cultural uses of oceans in the region.</p>	<p>The breakout group felt that this might be an important topic for the region.</p>

<p>spiritual levels, including burials at sea, and ways in which these interactions may be affected by other changes.</p> <p>Other suggested topics:</p> <p>Traditional knowledge?</p>	<p>LMMAs.</p>	<p>University of Sydney</p> <p>United Nations University Centre for Traditional Knowledge</p> <p>UNESCO World Heritage Centre</p> <p>World Indigenous Network, including May 2013 Conference</p> <p>American Museum of Natural History, New York</p>		
<p><b>Shipping</b> (Chapter 17)</p> <ul style="list-style-type: none"> <li>Economic significance of shipping and trend over the next decade</li> <li>Harmful impacts from pollution, acoustics, disasters, transport of invasive species and hazardous, noxious substances</li> <li>Shipping-related industries and commerce</li> </ul> <p>Other suggested sub-topics:</p> <p>PSSAs</p> <p>Piracy</p>	<p>Waigaini Convention reporting</p> <p>Pacific Islands Marine Contingency Plan (PACPlan) associated reports</p> <p>Secretariat of the Pacific Regional Environment Programme (SPREP), Shipping Movement Report for the Pacific</p> <p>New Zealand Rena response related studies</p> <p>Particularly sensitive Sea Area (PSSA) reports, Great Barrier Reef (GBR) 1990 , Torres Strait 2005</p> <p>UNDP, Glo-ballast study on ballast water and invasive species</p> <p>Fiji work on invasive species - Secretariat of the Pacific Regional Environment Programme (SPREP)</p> <p>Toxicity of Tributyltin (TBT) study for the GBR, Great Barrier Reef Marine Park Authority (GBRMPA)</p> <p>Western and Central Pacific Fisheries Commission (WCPFC) , monitoring and surveillance efforts and achievements, especially VMS, plus state cooperation (e.g. The Parties to the Nauru Agreement (PNA) , and Pacific Islands Forum Fisheries Agency (FFA))</p>	<p>International Maritime Organisation(IMO)</p> <p>Secretariat of the Pacific Regional Environment Programme (SPREP)</p> <p>South Pacific Tourism Organisation (SPTO), regarding cruise shipping</p> <p>Australian Maritime Safety Authority (AMSA) reports on Australian shipping incidents, and Great Barrier Reef Marine Park Authority (GBRMPA) for the Great Barrier Reef (GBR)</p> <p>World Ocean Council</p>	<p>Reporting under the Waigaini Convention</p>	<p>Hydrographic work (surveys etc.) and the impact on socio-economic issues to be included under Chapter 17 potentially, identification of this as a cross cutting issue</p> <p>The Breakout group believes that shipping is likely to increase, and associated issues may intensify, however the Breakout group is not aware of relevant studies</p> <p>Need to clarify how vessels other than “ships” are addressed (eg fishing vessels, yachts)</p>

<p>Safety of life at sea, and occupational health and safety/working conditions (for all vessels, including smaller vessels)</p>				
<p><b>Ports</b> (Chapter 18)</p> <ul style="list-style-type: none"> <li>• Economic significance of ports and trend over the next decade</li> <li>• Ports development and maintenance and socioeconomic implications</li> </ul>	<p>Reports on ports along the Queensland coast</p> <p>Australian Government white paper on port development</p>	<p>International Maritime Organisation(IMO)</p> <p>Port management authorities</p> <p>Pacific Island Forum Secretariat (PIFS), regarding the role of ports and shipping/boating in trans national crime and regional security</p> <p>Secretariat of the Pacific Community (SPC)</p> <p>World Association for Waterborne Transport and Infrastructure (PIANC)</p>		<p>Ports was thought to be a topic of interest for Fiji, Papua New Guinea, Tahiti, New Caledonia, Guam, Hawaii, Australia New Zealand</p> <p>Nuclear free shipping (and access to ports) identified as a possible subtopic of interest</p> <p>As with shipping, expected growth issue for the region driven by tourism (cruise ships), and mineral exports</p>
<p><b>Submarine cables and pipelines</b> (Chapter 19)</p> <ul style="list-style-type: none"> <li>• Economic magnitude and location of cables and pipelines and socioeconomic implications</li> <li>• Pollution</li> </ul> <p>Other suggested topics:</p>	<p>Carter et al., 2009 - UNEP WCMC report on cables and pipelines</p>	<p>United Nations Environment Programme World Conservation Monitoring Centre (UNEP WCMC)</p> <p>ISPCPC (International Cable Protection Committee)</p>	<p>Understanding of international standards and state of compliance</p> <p>Vulnerability of cables and pipelines in the region (e.g. what is the risk exposure)</p>	<p>See contacts for offshore hydrocarbon (regarding pipelines)</p> <p>Links to food security – impacts on inshore fisheries and other livelihoods</p>

<p>Socio-economic impacts of interactions with cables and pipelines (e.g. fisheries interactions, leading to loss of communication)</p> <p>Absence of bandwidth in internet cabling to SIDS and associated development implications</p>				
<p><b>Coastal, riverine and atmospheric inputs from land</b> (Chapter 20)</p> <ul style="list-style-type: none"> <li>• Source of pollution, including municipal wastes, industrial wastes, and agricultural runoff</li> <li>• Eutrophication</li> <li>• Desalinization</li> </ul> <p>Other suggested topics:</p> <p>Salt water intrusion into freshwater aquifers</p>	<p>United Nations Environment Programme Global - Programme of (UNEP GPA)</p> <p>Sick Water <a href="http://www.unep.org/pdf/SickWater_screen.pdf">http://www.unep.org/pdf/SickWater_screen.pdf</a></p> <p>UNEP - Persistent Organic Pollutants (POPs) Program</p> <p>Secretariat of the Pacific Regional Environment Programme (SPREP) - POPs and PICs Program</p> <p>Global Environment Facility (GEF), Global International Waters Assessment (GIWA) Report</p> <p>Denton report on heavy metals</p> <p>Australian estuaries database assessment reports</p> <p>Great Barrier Reef Water Quality Plan studies, especially synthesis reports by Brodie et al</p> <p>OS 2020 Bay of Islands <a href="http://www.os2020.org.nz/bay-of-islands-coastal-survey-project/">http://www.os2020.org.nz/bay-of-islands-coastal-survey-project/</a></p> <p>Secretariat of the Pacific Community Applied Geoscience and Technology Division (SOPAC) Freshwater Resources Database</p> <p>Secretariat of the Pacific Regional Environment Programme (SPREP) Regional Waste Management</p>	<p>United Nations Environment Programme Global - Programme of (UNEP GPA)</p> <p>Secretariat of the Pacific Regional Environment Programme (SPREP)</p> <p>Secretariat of the Pacific Community (SPC) /Secretariat of the Pacific Community Applied Geoscience and Technology Division (SOPAC)</p>	<p>Dispersal modelling (river outflows)</p> <p>Implications for coastal fisheries and other coastal livelihoods (identified as a priority issue, noting several examples of negative events (e.g. dead zones) this in the region)</p>	

	Strategy			
<p><b>Offshore hydrocarbon industries</b> (Chapter 21)</p> <ul style="list-style-type: none"> <li>Scale and significance and socioeconomic implications</li> <li>Impacts from exploration</li> <li>Disasters</li> </ul> <p>Other suggested topics:</p> <p>Carbon capture and storage (CCS)</p> <p>Impacts throughout the life cycle (exploration, production etc.)</p> <p>Gas hydrate exploitation (potential)</p>	<p>Yannick Beaudoin ed. - global assessment of gas hydrates, UNEP, GRID Andreal</p> <p>International Energy Assessment (IEA) and British Petroleum (BP), assessments of hydrocarbon resources</p> <p>An Options Analysis for the Commercial and Economic Development of Offshore Methane Hydrates as a Future Energy Option For New Zealand, <a href="http://www.med.govt.nz/sectors-industries/natural-resources/oil-and-gas/petroleum-expert-reports/Extract-CAENZ-report-pdf">http://www.med.govt.nz/sectors-industries/natural-resources/oil-and-gas/petroleum-expert-reports/Extract-CAENZ-report-pdf</a></p> <p>MacDiarmid, A., et al. Expert Risk Assessment of Activities in the New Zealand Exclusive Economic Zone and Extended Continental Shelf. Ministry for the Environment, Wellington, <a href="http://www.mfe.govt.nz/publications/oceans/managing-our-oceans/niwa-risk-assessment.pdf">http://www.mfe.govt.nz/publications/oceans/managing-our-oceans/niwa-risk-assessment.pdf</a></p> <p>Australian Energy Resource Assessments</p> <p>Secretariat of the Pacific Community Applied Geoscience and Technology Division (SOPAC), CCOP and ESCAP - studies on minerals and petroleum potential in south-west Pacific region</p> <p>McDermot et al., New Zealand Ministry for Environment (assessment study of impacts of hydrocarbon activities)</p>	<p>Geoscience Australia</p> <p>The National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA), National Offshore Petroleum Titles Administrator (NOPTA), Australian Government and equivalent New Zealand agencies, including on the issue of best practice</p> <p>Australian Government Defence Science and Technology Organisation(DSTO), regarding underwater noise</p> <p>The Australian Institute of Marine Sciences (AIMS)</p> <p>APPEA (Australian industry association)</p> <p>Australian CO2CRC, regarding CCS</p>	<p>info on the issue of distributive fairness, such as taxation, royalty, regulation etc.</p> <p>Papua New Guinea information</p> <p>Current information on petroleum potential beyond Australia, New Zealand and Papua New Guinea</p>	<p>Gas hydrate considered to be a key emerging issue for the region, especially for New Zealand</p> <p>Large amounts of relevant data and studies are held by private companies, and are not available in the public domain</p> <p>Relevant primarily only to Australia, New Zealand, and Papua New Guinea</p>
<p><b>Other marine-based energy industries</b> (Chapter 22)</p> <ul style="list-style-type: none"> <li>Scale of wind, wave, ocean thermal and tidal power generation</li> <li>Environmental benefits and impacts</li> </ul>		<p>International Energy Agency (IEA)</p> <p>National Oceanic and Atmospheric Administration (NOAA)</p> <p>International Renewable Energy Agency (IRENA)</p> <p>Secretariat of the Pacific Community (SPC)</p>	<p>Understanding of ocean energy potential in the region, (as well as globally?)</p>	<p>OTEC is a potential emerging issue for the region – already trialled in Hawaii</p>

<ul style="list-style-type: none"> <li>Expected economic performance</li> <li>Significant socioeconomic aspects</li> </ul> <p>Other suggested topics:</p> <p>OTEC</p>		<p>Secretariat of the Pacific Community Applied Geoscience and Technology Division (SOPAC)</p> <p>Oceanor</p> <p>The Commonwealth Scientific and Industrial Research Organisation (CSIRO) Energy Transformed Flagship</p>		
Topics and Sub-Topics	Relevant Sources of Info	Priority Individuals & Inst.	Information Gaps	Comments
<p><b>Offshore mining industries</b> (Chapter 23)</p> <ul style="list-style-type: none"> <li>Sand and gravel mining and socioeconomic implications</li> <li>Status of non sand/gravel mining activities</li> </ul>	<p>Secretariat of the Pacific Community Applied Geoscience and Technology Division (SOPAC), studies on aggregate mining</p> <p>Secretariat of the Pacific Community Applied Geoscience and Technology Division (SOPAC), study Review of Pacific Marine Minerals (in progress)</p> <p>New Zealand, assessment of offshore hydrocarbon activities</p> <p>Link for irons and other marine minerals in New Zealand, <a href="http://www.nzpam.govt.nz/cms/minerals/facts-and-figures">http://www.nzpam.govt.nz/cms/minerals/facts-and-figures</a></p> <p>The Commonwealth Scientific and Industrial Research Organisation (CSIRO) and Geoscience Australia (GA), map of Australian mineral resources, as well as the New Zealand equivalent</p> <p>Papua New Guinea Environmental Impact Assessment (EIA)</p>	<p>Secretariat of the Pacific Community Applied Geoscience and Technology Division (SOPAC)</p> <p>New Zealand Ministry of Economic Development, regarding offshore mining potential</p> <p>International Seabed Authority (ISA)</p>	<p>Cultural impacts of offshore mining</p> <p>Contamination of aggregate by salt, leading to building and infrastructure deterioration</p> <p>Comprehensive assessments of resource potential, particularly non-sand and gravel</p>	<p>Need to capture excavation of sand and gravel, and extraction of minerals from sand</p> <p>Understanding cultural impacts may be a priority issue</p>
<p>Solid waste disposal (Chapter 24)</p> <ul style="list-style-type: none"> <li>Types and amounts dumped into the sea and trend over the next decade</li> </ul>	<p>Secretariat of the Pacific Regional Environment Programme (SPREP), WWII Wrecks Database (location and tonnage information provided, useful for potential loss of oil)</p> <p>Brewer et al., Impacts of gold mine waste disposal on</p>	<p>Secretariat of the Pacific Regional Environment Programme (SPREP), WWII shipwrecks</p> <p>London Convention Secretariat and Craig Vogt, regarding LC/LP</p>	<p>Knowledge of pollution risks associated with WWII wrecks risks is still limited</p> <p>UXO studies are limited regarding scope and depth</p>	<p>Identified by the Breakout group as a priority topic for discussion</p> <p>Waste disposal is largely a land based issue,</p>



<p>Additional topic covered in discussion:</p> <p>World War II ship wrecks and UXO</p> <p>Mining tailings disposal</p> <p>Domestic waste disposal</p> <p>Industrial waste disposal</p> <p>Nuclear testing impacts and nuclear waste disposal</p>	<p>tropical pelagic ecosystems</p> <p>London Convention, International Assessment of Marine and riverine mine tailing disposal</p> <p>Secretariat of the Pacific Regional Environment Programme (SPREP), report on nuclear testing impacts</p> <p>Pacific Island Forum Secretariat (PIFS), study on Unexploded ordnance (UXO)</p> <p>Great Barrier Reef studies on dredge spoil dumping</p>	<p>studies</p> <p>Mineral Policy Institute</p> <p>Secretariat of the Pacific Community Applied Geoscience and Technology Division (SOPAC), regarding mine tailings</p> <p>PIFS, regarding UXO</p> <p>Secretariat of the Pacific Regional Environment Programme (SPREP)</p>		<p>however there may be oceans impacts related to this that are covered elsewhere</p> <p>Fishing industry waste disposal at sea should be picked up in fishery related chapters of the report</p>
<p><b>Marine Debris</b> (Chapter 25)</p> <ul style="list-style-type: none"> <li>• Causes</li> <li>• Approaches to combating marine debris</li> </ul> <p>Other suggested topics:</p> <p>Micro plastics (identified as a particular priority)</p>	<p>UNEP GPA Studies</p> <p>National Oceanic and Atmospheric Administration (NOAA) Studies</p> <p>UNEP/Food and Agriculture Organization (FAO), Report on ghost fishing</p> <p>The United Nations Open-ended Informal Consultative Process on Oceans and the Law of the Sea (UNICPOLOS) Report on marine debris</p> <p>Asia-Pacific Economic Cooperation (APEC), Report on costs of marine debris in the Asia Pacific region</p> <p>The Commonwealth Scientific and Industrial Research Organisation (CSIRO) ghost net studies</p>	<p>National Oceanic and Atmospheric Administration (NOAA)</p> <p>United Nations Environment Programme (UNEP)</p> <p>International Maritime Organisation (IMO)</p> <p>Secretariat of the Pacific Regional Environment Programme (SPREP)</p>		<p>Regional responses to this issue are critical, and the south-west Pacific can provide a global example of how to do this</p> <p>Derelict fishing gear should be captured here and/or in fisheries related chapters</p>

<p><b>Land/sea physical interaction</b> (Chapter 26)</p> <ul style="list-style-type: none"> <li>• Magnitude and location of land reclamations and habitat modifications</li> <li>• Erosion of land by the sea and socioeconomic implications</li> <li>• Sedimentation changes and trend over the next decade</li> </ul> <p>Other suggested topics:</p> <p>Extreme weather events and impacts</p> <p>Sea level rise</p>	<p>Webb and Kentch study, 2010</p> <p>International Union for Conservation of Nature (IUCN), Economics of Coastal Zone Management in the Pacific</p> <p>Australian sea level rise mapping</p> <p>USA, Source to Sink Program (sediment deliveries)</p>	<p>Secretariat of the Pacific Regional Environment Programme (SPREP) – NETA</p> <p>International Geosphere and Biosphere Program</p> <p>Land-Ocean Interactions in the Coastal Zone (LOICZ)</p> <p>National Institute of Water and Atmospheric Research (NIWA)</p>	<p>Regional specific information</p>	

## Group4 Marine biological diversity aspects

The participants identified the need for need regular, national, coordinated SOE reporting, greater university trained graduates able to contribute/fill positions, mechanism in-country to capture all the data collected. The region needs resources in the form of sustainable long-term funding and infrastructure in the form of research boats, centralised data structure system at national and international level and equipment (sampling etc).

<b>Topics (e.g. Coastal sediment habitats) and Sub-Topics (e.g. Overall status of major groups...) to Include in the SW pacific region Assessment</b>  <i>Task: review and add any new topics or sub-topics</i>	<b>Relevant Studies, Documents, Reports and Other Sources of Information (refer to the Inventory list)</b>  <i>Task: identify relevant sources of information, including but not limited to the Inventory list</i>	<b>Priority Individuals &amp; Institutions to Engage (email; who suggested)</b>  <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>	<b>Information Gaps</b>  <i>Task: note sub-topics lacking information</i>	<b>Comments</b>
<p>Coastal (0 – 50 m depths) sediment habitats (across Chapters 34-43)</p> <ul style="list-style-type: none"> <li>Overall status of major groups of species and habitats within this regime</li> <li>Status and trends of, and threats to, marine ecosystems, species and habitats that are threatened, declining or otherwise in need of attention</li> <li>Significant socioeconomic aspects in relation to the conservation of marine species and habitat</li> </ul>	<p>Seagrasses – seagrasswatch.org whole list of publications across Asia and Pacific – status reports</p> <p>Assessment of seagrasses – ifrecor – Hily, V et al 2010</p> <p>Secretariat of the Pacific Regional Environment Programme (SPREP) - Coastal Ecosystems</p> <p>2008, Atlas des mangroves de nouvelle-caledonie, Virly. S.</p> <p>IUCN Mangrove Ecosystems for Climate Change Adaptation &amp; Livelihoods (MESCAL) Project</p> <p>MESCAL Project - sub-regional mangrove project</p> <p>Compendium of Marine Species from New Caledonia – Second Edition, January 2007, Payri Clause E. (ED)</p> <p>Tropical Fisheries, Secretariat of the Pacific Community (SPC) – Vulnerability of Tropical Fisheries and Aquaculture of the Pacific to Climate Change</p> <p>CRISP Report – Analyse Ecoregionale Marine de la Nouvelle – Caledonia, December</p> <p>International Union for Conservation of Nature (IUCN) Report 2012</p>	<p>James Cook University (reefs, segrass)</p> <p>University of Perpignan Via Domitia – Coastal</p> <p>University of the South Pacific (USP)</p> <p>Bird Life Pacific</p> <p>International Union for Conservation of Nature (IUCN) - Coral Reefs</p>	<p>Resilience to changing impacts, terrestrial, over-fishing, climate change, national disaster</p> <p>Status and trend in seagrass distribution and trends</p> <p>Mangroves – lack of status and trend – could not accurately say if increasing or decreasing – incomplete</p> <p>Non-commercial fish species – lack of data, on status and trend</p> <p>Animals in the coastal environment – insufficient status, trend and threat data</p>	

	<p>World Heritage Listed Marine Area – 2006, Les Lagons de Nouvelle – Caledonie : Diversite Recuifale et Ecosystems Assoicies</p> <p>State of the Environment Report 2011, Marine Chapter</p> <p><a href="http://www.environment.gov.au/soe/2011/report/marine-environment/">http://www.environment.gov.au/soe/2011/report/marine-environment/</a></p> <p><a href="http://www.pifsc.noaa.gov/cred/">www.pifsc.noaa.gov/cred/</a></p>		<p>and marine mammal information</p> <p>In-shore water quality – gap</p> <p>Lack of information on ecosystem functioning and connectivity – we don't have any information to make a decision on this.</p>	
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