

Theme	Indicator	2011	2014	2016	2020	2016-2020 Trend
MPA	1a	100	100	100	100	Stable
	1b	40	40	40	20	Decrease
	1c	100	80	100	60	Decrease
	1d	20	40	40	20	Decrease
	1e	20	40	60	20	Decrease
	1f		40	40	80	Increase
Average per Theme		56.0	56.7	63.3	50.0	
Sustainable Fisheries	2a	60	60	60	60	Stable
	2b	40	60	60	80	Increase
	2c	40	60	60	40	Decrease
	2d		40	60	80	Increase
Average per Theme		46.7	55.0	60.0	65.0	
Coastal Management	3a	80	80	80	80	Stable
	3b		40	60	60	Stable
	3c		40	40	60	Increase
Average per Theme		80.0	53.3	60.0	66.7	
Sewage	4a	40	40	40	80	Increase
	4b	40	40	40	60	Increase
	4c		40	40	40	Stable
Average per Theme		40.0	40.0	40.0	60.0	
Research	5a	80	80	100	100	Stable
	5b	80	80	80	80	Stable
	5c	100	100	100	100	Stable
	5d	60	60	100	100	Stable
Average per Theme		80.0	80.0	95.0	95.0	
Private Sector	6a	40	60	80	60	Decrease
	6b	20	40	60	60	Increase
	6c	40	60	60	60	Stable
	6d	80	80	80	100	Increase
	6e	40	40	60	40	Decrease
Average per Theme		44.0	56.0	68.0	64.0	
Global Themes	7a	40	40	40	40	Stable
	7b	20	20	20	100	Increase
	7c		40	40	60	Increase
Average per Theme		30.0	33.3	33.3	66.7	

Theme	Indicator	2011	2014	2016	2020	2016-2020 Trend
MPA	1a	100	100	100	100	Stable
	1b	40	40	40	20	Decrease
	1c	100	80	100	60	Decrease
	1d	20	40	40	20	Decrease
	1e	20	40	60	20	Decrease
	1f		40	40	80	Increase
Sustainable Fisheries	2a	60	60	60	60	Stable
	2b	40	60	60	80	Increase
	2c	40	60	60	40	Decrease
	2d		40	60	80	Increase
Coastal Management	3a	80	80	80	80	Stable
	3b		40	60	60	Stable
	3c		40	40	60	Increase
Sewage	4a	40	40	40	80	Increase
	4b	40	40	40	60	Increase
	4c		40	40	40	Stable
Research	5a	80	80	100	100	Stable
	5b	80	80	80	80	Stable
	5c	100	100	100	100	Stable
	5d	60	60	100	100	Stable
Private Sector	6a	40	60	80	60	Decrease
	6b	20	40	60	60	Increase
	6c	40	60	60	60	Stable
	6d	80	80	80	100	Increase
	6e	40	40	60	40	Decrease
Global Themes	7a	40	40	40	40	Stable
	7b	20	20	20	100	Increase
	7c		40	40	60	Increase
OVERALL Average Grade		53.6	55.0	62.1	65.7	

Theme	Indicator	2011	2014	2016	2020	2016-2020 Trend
MPA	1a	5- Very Good	5- Very Good	5- Very Good	5- Very Good	Stable
	1b	2- Poor	2- Poor	2- Poor	1- Very Poor	Decrease
	1c	5- Very Good	4- Good	5- Very Good	3- Fair	Decrease
	1d	1- Very Poor	2- Poor	2- Poor	1- Very Poor	Decrease
	1e	1- Very Poor	2- Poor	3- Fair	1- Very Poor	Decrease
	1f	NA	2- Poor	2- Poor	4- Good	Increase
Sustainable Fisheries	2a	3- Fair	3- Fair	3- Fair	3- Fair	Stable
	2b	2- Poor	3- Fair	3- Fair	4- Good	Increase
	2c	2- Poor	3- Fair	3- Fair	2- Poor	Decrease
	2d	NA	2- Poor	3- Fair	4- Good	Increase
Coastal Management	3a	4- Good	4- Good	4- Good	4- Good	Stable
	3b	NA	2- Poor	3- Fair	3- Fair	Stable
	3c	NA	2- Poor	2- Poor	3- Fair	Increase
Sewage	4a	2- Poor	2- Poor	2- Poor	4- Good	Increase
	4b	2- Poor	2- Poor	2- Poor	3- Fair	Increase
	4c	NA	2- Poor	2- Poor	2- Poor	Stable
Research	5a	4- Good	4- Good	5- Very Good	5- Very Good	Stable
	5b	4- Good	4- Good	4- Good	4- Good	Stable
	5c	5- Very Good	5- Very Good	5- Very Good	5- Very Good	Stable
	5d	3- Fair	3- Fair	5- Very Good	5- Very Good	Stable
	6a	2- Poor	3- Fair	4- Good	3- Fair	Decrease
	6b	1- Very Poor	2- Poor	3- Fair	3- Fair	Stable

Private Sector	6c	2- Poor	3- Fair	3- Fair	3- Fair	Stable
	6d	4- Good	4- Good	4- Good	5- Very Good	Increase
	6e	2- Poor	2- Poor	3- Fair	2- Poor	Decrease
Global Themes	7a	2- Poor	2- Poor	2- Poor	2- Poor	Stable
	7b	1- Very Poor	1- Very Poor	1- Very Poor	5- Very Good	Increase
	7c	NA	2- Poor	2- Poor	3- Fair	Increase

Rationale
The marine protected areas have been increasing in time and since 2011 represent an adequate percentage of territorial sea.
The fully protected areas are still poorly represented. The number has increased, but the decrease is due to a change in ranking criteria.
Based on the estimated extension of 159.9 km <sup>2</sup> of MAR coral reefs, 13.7% are inside fully protected areas.
55% of MPAs are still updating or creating management plans, and 91% have inadequate or none staff and equipment.
55% of MPAs have inadequate enforcement because there are inadequate staff and equipment.
There is a national and regional document promoting economic alternatives, and 91% of MPAs have economic alternative programs.
Some advances have been done, but efforts are still needed to harmonize lobster and queen conch fisheries in the MAR.
Efforts to verify FSA have been done, and all verified FSA are in MPAs, 75% of those have good enforcement.
Parrotfish are still not protected at a national level in Honduras, and their protection encompasses just 6.5% of the Honduran continental shelf.
There is gaining recognition of the importance of right based fisheries, as MPAs are adopting fully or partially this approach.
There are plans for all the main coastal settlements located in the MAR, but the legal implementation is poor.
There are monitoring waters programs in the Bay Islands and the North Coast, as well as a national and international framework to protect water resources and watersheds.
A new strategic plan to manage, conserve, restore, and monitor mangrove has been developed for the MAR, but it is not legally accepted through territorial plans.
Cartagena Treaty has been ratified in 2018, which includes LBSMP class I and II waters protocols, but there is an inadequate implementation by the country.
Just 27% of sewage treatment plants are working adequately to treat water classes I and II for at least 23% of the coastal population in Honduras MAR municipalities.
There are advances to ban plastic bags and to promote better tourism practices in Roatan and Utila. But overall, there is inadequate urban waste treatment in coastal communities in Honduran MAR.
A regional standardized monitoring program of coral reef health and a database with routine, up-to-date, and representative data both exist. The last campaigns were held in 2016 and 2018, and the results were released in 2018 and 2020.
There is an economic evaluation concerning at least one ecosystem service provided by coral reefs (coastal protection, tourism, or fisheries) in five MPAs: PNIB, MNMACC, PNJK, PNPI, and RVSBT.
Documents presenting scientific findings on coral reef condition and threats geared toward a general audience are not available.
Interdisciplinary research has resulted in MPAs declarations in PNMIB and RVSBT.
11% of Honduras MAR dive centers are part of Go Blue Bay Islands, and frequent best practices training is promoted in Roatan and Utila.
18% of coastal hotels listed in Honduras Tips tourism magazine have Go Blue Bay Islands eco-certification. But the percentage of hotels in the Honduras MAR is not known.

The Bay Islands Responsible Seafood Guide is implemented by 14 restaurants, 11 in Roatan, and 3 in Utila, and w spread through education and community outreach programs in the Bay Islands.
A new national strategic framework promotes sustainable production and consumption. It encompasses alternative e options, improvements in the treatment of wastewater, waste reduction, and sustainable tourism.
55% of MPAs have low private sector support.
There is not a regional methodology describing coral sites resilient to climate change.
Honduras is part of 100% of the treaties that support coral reef conservation.
Carbon sequestration programs exist but their application is weak.

Theme	Indicator	2011	2014	2016	2020	2016-2020 Trend
MPA	1a	5	5	5	5	Stable
	1b	2	2	2	1	Decrease
	1c	5	4	5	3	Decrease
	1d	1	2	2	1	Decrease
	1e	1	2	3	1	Decrease
	1f		2	2	4	Increase
Sustainable Fisheries	2a	3	3	3	3	Stable
	2b	2	3	3	4	Increase
	2c	2	3	3	2	Decrease
	2d		2	3	4	Increase
Coastal Management	3a	4	4	4	4	Stable
	3b		2	3	3	Stable
	3c		2	2	3	Increase
Sewage	4a	2	2	2	4	Increase
	4b	2	2	2	3	Increase
	4c		2	2	2	Stable
Research	5a	4	4	5	5	Stable
	5b	4	4	4	4	Stable
	5c	5	5	5	5	Stable
	5d	3	3	5	5	Stable
Private Sector	6a	2	3	4	3	Decrease
	6b	1	2	3	3	Increase
	6c	2	3	3	3	Stable
	6d	4	4	4	5	Increase
	6e	2	2	3	2	Decrease
Global Themes	7a	2	2	2	2	Stable
	7b	1	1	1	5	Increase
	7c		2	2	3	Increase
Average Grade		2.7	2.8	3.1	3.3	

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## Indicator:

Name:	Percent of a country's territorial sea included in gazetted MPAs
Description:	In order to be effective, networks of MPAs must cover an adequate percentage of the sea. Globally, scientists have estimated that between 20-30% of the sea should be protected.
Theme:	Theme 1 – Marine Protected Areas

Status: Final

## Ranking Criteria:

- 5 – At least 20% of territorial sea is inside MPAs  
4 – At least 15% of territorial sea is inside MPAs  
3 – At least 10% of territorial sea is inside MPAs  
2 – At least 5% of territorial sea is inside MPAs  
1 – Less than 5% of territorial sea is inside MPAs

## Responsible:

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## Grade:

Grade:	2020: 5-Very Good	2016: 5-Very Good	2014: 5-Very Good	2011: 5-Very Good
	2020: 100%-Very Good	2016: 100%-Very Good	2014: 100%-Very Good	2011: 100%-Very Good
Result:	2020 - 49% of Honduras' territorial sea is inside MPAs.			
	2016 - 40.9% of Honduras' territorial sea is inside MPAs.			
	2014 - 40.9% of Honduras' territorial sea is inside MPAs.			
	2011 - 33.7% of Honduras' territorial sea is inside MPAs.			

## Observations:

Observations:	<p><b>2020</b> - A revision of the list of the declared Marine Protected Areas (MPAs) was done using Caviedes et al. 2018 (HN1a.38). The total MPAs area and corresponding marine area were obtained using Chollett 2015 (HN1a.21) and ICF GIS layer (HN1a.37). In 2016, the percentage of the territorial sea was calculated based on the total area 23987 km<sup>2</sup> (HN1a.31). This number has now changed to 19,679.9 km<sup>2</sup>, based on new calculations done by AGRRA/HRI using the most updated TS, EEZ and coral reef layers available (HN1a.71). This change now reflects as having 49% of our TS in MPAs, which is equal to 9,632.7 km<sup>2</sup>. Two newly declared MPAs were considered: Refugio de Vida Silvestre Marino Bahía de Tela-RVSMBT (HN1a.40) and Refugio de Vida Silvestre Cuyamel-RVSC (HN1a.41). The total marine protected area is 10038 km<sup>2</sup>, which represents 41.8 % (HN1a.70). An integrated GIS layer was built for declared MPAs (HN1a.68) and proposed MPAs (HN1a.69).</p> <p><b>2016</b> - Although the area under MPA management has increased from 9806 km<sup>2</sup> to 9819 km<sup>2</sup>, the percentage of territorial sea under protection remains at 40.9% (HN1a.31-33). Some of these changes are related to a revision of MPA borders carried out by Iliana Chollett, and her supporting documents can be found under HN1a.21 &amp; 22. Other supporting documents have been acquired, related to MPAs in Honduras, such as shape files (HN1a.12, 24, 26, 28, 29 &amp; 30); new MPAs decreed or under municipal ordinance (HN1a.15, 16, 17, 18, 19, 20, 25 &amp; 34); updated or new management plans (HN1a.27 &amp; 35); as well as norms that apply to buffer zones (HN1a.36).</p> <p><b>2014</b> - It was determined that 40.9% of Honduras' territorial sea is inside MPAs (summary table in evidence HN1a.13). Honduras has 23,987 km<sup>2</sup> of territorial sea (spatial information in HN1a.14 and summary in HN1a.13), and 9,806.1 km<sup>2</sup> inside MPAs (spatial information in HN1a.4; summary in HN1a.13).</p> <p><b>2011</b> - It was determined that 34% of Honduras' territorial sea is inside MPAs (summary table in evidence HN1a.10 and HN1a.11). Honduras has 23,987 km<sup>2</sup> of territorial sea (spatial information in HN1a.9 and summary in HN1a.10 and HN1a.12), and 8,082 km<sup>2</sup> inside MPAs (spatial information in HN1a.9; summary in HN1a.10 and HN1a.12; legal orientation and detailed information [maps and/or summary statistics] for individual MPAs in HN1a.1 [pages 14 &amp; 49], HN1a.2 [pages 12 &amp; 33], HN1a.3 [pages 3 &amp; 33], HN1a.4 [pages 11 &amp; 17], HN1a.5 [pages 8 and 30], HN1a.6 [pages 7 &amp; 10], HN1a.7, HN1a.8). Management plans and spatial information were compiled by HRI using national government data on MPAs. GIS layers (HN1a.9) contain all the spatial information used in this analysis. Please note that some numbers may slightly differ from those reported in individual management plans due to the fact that HRI only calculated the marine portion of each reserve. Several management plans and country reports include the total area of an MPA, which may include the area of marine waters, inland waters and land in its summary tables. Slight differences may be the result of different GIS layers (maps). The legal orientation and description for each protected area can be found in HN1a.1/p14 &amp; 49, HN1a.2/2.4.3 p.33 &amp; 1.2.4.4 p.12, HN1a.3/1.1 p.3 &amp; 1.4.3 p.33, HN1a.4/ p.11 &amp; p.17, HN1a.5/II.1.1 p.8 &amp; II.2.2 p.30, HN1a.6/II p.7 III p.10, HN1b.7 p.1 Article</p>
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## Source:

	Document/File name	Date	Institution	Location
2011	HN1a.1 Plan de Manejo 2008-12: Monumento Natural Marino Archipelago Cayos Cochinos, Honduras	Jan-09	HCRF	HCRF
	HN1a.2 Proyecto Manejo Ambiental de Islas de la Bahía	May-02	Instituto Hondureño de Turismo	Instituto Hondureño de Turismo
	HN1a.3 Plan de Manejo Parque Nacional Punta Izopo	Apr-04	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado
	HN1a.4 Plan de Manejo Pesquero Refugio de Vida Silvestre Barras Cuero y Salado 2010-2014	Apr-04	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado
	HN1a.5 Programa de Uso Público Parque Nacional Jeannette Kawas	Jun-Dec 2011	PROLANSATE	PROLANSATE
	HN1a.6 Plan de Manejo Biosfera del Río Platano	Jul-00	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado



2014	HN1a.7 Acuerdo Presidencial 3056-91-Islas del Cisne	Oct-91	Secretaría de Recursos Naturales y Ambiente	Secretaría de Recursos Naturales y Ambiente
	HN1a. 8 MPA Boundary & Regs Parque Nacional Cuyamel Omoa	2011	Instituto Nacional de Conservación y Desarrollo Forestal y Vida Silvestre	Instituto Nacional de Conservación y Desarrollo Forestal y Vida Silvestre
	HN1a.9 Eco Audit HN-GIS Shape files	Dec-11	HRI	HRI
	HN1a.10 Eco Audit Summary Statistics	Dec-11	HRI	HRI
	HN1a.11 JPEG Map of MAR Protected Area & Reef	Dec-11	HRI	HRI
	HN1a.12 MAR MPA List	Dec-11	HRI	HRI
	HN1a.13 Eco Audit 2013 MPAs GIS	Aug-13	HRI	HRI
	HN1a.14 MPA NTZs MAR Reefs	Aug-13	HRI	HRI
	HN1a.15 Ordenanza Municipal SACT	Feb-12	HRI	HRI
	HN1a.16 Acuerdo 007-2015 Bahía de Tela	Mar-15	HRI	HRI
2016	HN1a.17 Certificación Ordenanza SACT	Mar-12	HRI	HRI
	HN1a.18 Decreto Ministerial SACT	Feb-14	HRI	HRI
	HN1a.19 Decreto Legislativo 75-2010 PNMB	Jul-10	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado
	HN1a.20 Nuevos Límites RVSCS	Nov-11	Centro de Estudios Marinos	Centro de Estudios Marinos
	HN1a.21 Revision Límites APMs de Honduras	Apr-15	Centro de Estudios Marinos	Centro de Estudios Marinos
	HN1a.22 Anexo Revision de Límites APMs de Honduras	Apr-15	Centro de Estudios Marinos	Centro de Estudios Marinos
	HN1a.23 Shapes Revision Límites APMs de Honduras	Apr-15	Centro de Estudios Marinos	Centro de Estudios Marinos
	HN1a.24 Shapes de Zona de Amortiguamiento CC	Nov-12	HCRF	HCRF
	HN1a.25 Acuerdo 005-2002 Prohibición Pesca con Tanque CC	Jan-02	HCRF	HCRF
	HN1a.26 Shapes de Cayos Cochinos	Nov-13	HCRF	HCRF
2020	HN1a.27 Plan de Manejo MNMCC 2014-2025	Apr-14	HCRF	HCRF
	HN1a.28 Áreas de Pasto Marino de Honduras	Jan-15	Secretaría de Agricultura y Ganadería	Secretaría de Agricultura y Ganadería
	HN1a.29 Fronteras Marítimas Honduras	Aug-15	Secretaría de Agricultura y Ganadería	Secretaría de Agricultura y Ganadería
	HN1a.30 Límites Marinos de Honduras en el Caribe	Aug-14	Secretaría de Agricultura y Ganadería	Secretaría de Agricultura y Ganadería
	HN1a.31 EA table 2015 v1	Dec-15	HRI	HRI
	HN1a.32 GIS MAR MPAs attributes	Dec-15	HRI	HRI
	HN1a.33 MAR MPAs NTZs 2015	Dec-15	HRI	HRI
	HN1a.34 Ordenanza Áreas No Pesca Guanaja	Jun-14	Municipalidad de Guanaja	Municipalidad de Guanaja
	HN1a.35 Plan de Manejo Cuyamel Omoa	Jul-12	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado
	HN1a.36 Normativa de Zonas de Amortiguamiento	2009	ICF	ICF
2020	HN1a.37 SIG ICF 2020	2020	ICF-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.38 Estado del Manejo Integrado de los Espacios y	2018	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.39 Capas SIG AMPs	2015 & 2017	HRI/CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.40 Decreto de creación del RVSMBT	2017	CORAL-Tela	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.41 Acuerdo de creación SAPCO La Gaceta	2016	CCO	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.42 Acuerdo de creación SAPCO	2016	CCO	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.43 Decreto 977-80 RHB Río Platano	1980	CORAL-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.44 Decreto 99-87 Cuero y Salado	1987	CORAL-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.45 Decreto 38-89 Reformas FUCSA	1989	CORAL-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.46 Acuerdo 213-89 Islas de la Bahía - Islas del Cisne.pdf	1989	CORAL-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.47 Acuerdo 1118-92 Instrucción para declarar Múltiples APs	1992	CORAL-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.48 Acuerdo 1928-93 Cayos Cochinos	1993	CORAL-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.49 Acuerdo 1704-94 Cayos Cochinos	1994	CORAL-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.50 Decreto 128-94 Abogado Agustín Cordova Rodríguez (Islas del Cisne)	1994	CORAL-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.51 Decreto 154-94 Punta Sal	1994	CORAL-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.52 Decreto 43-95 Cambio de nombre PNPS-PNUK	1995	CORAL-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.53 Acuerdo 005-97 Islas de la Bahía	1997	CORAL-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.54 Decreto 170-97 Ampliación RHB Río Platano	1997	CORAL-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.55 Decreto 261-2000 Punta Izopo	2000	CORAL-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.56 Acuerdo 196-2001-Veda-Cuero y Salado	2001	CORAL-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.57 Decreto 114-2003 Cayos Cochinos	2003	CORAL-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.58 Acuerdo 420-2009 Ampliación Cayos Cochinos	2009	CORAL-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.59 Acuerdo 008-2011 PN Cuyamel Omoa	2011	CORAL-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.60 HN1a.60 Acuerdo 25-2011 - Laguna de Bacalar	2011	CORAL-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.61 Acuerdo ICF RVSLG	2012	ICF-Trujillo	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.62 Acuerdo-PW-018-2016-Declaratorio-Sub-sistema-Cuyamel-Omoa	2016	CORAL-Tgu	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.63 Decreto RVSLG 022-2016	2016	ICF-Trujillo	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.64 RHBRP-196-UNESCO	1982	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.65 Acuerdo 544-14-ZEPA y Pepino	2014	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.66 Límites SAPCO 2016	2016	CCO	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.67 Decreto PNND	2006	FUPNAND	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.68 GIS Honduras MPAs 2020	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.69 GIS Honduras Proposed MPAs 2020	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1a.70 EcoAudit-2020-HN-1a	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>

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**Healthy Reef Initiative**  
**Collection Sheet Eco-Audit 2020 - Honduras**
**Indicator:**

<b>Name:</b>	Percent of a country's territorial sea included in fully protected zones	<b>Status:</b>	Final
<b>Description:</b>	While MPAs in general offer a variety of conservation measures, the fully-protected (non-extractive) zones or reserves provide the maximum benefits, allowing the replenishment of fisheries and restoration of ecosystem balance. Globally scientists have called for between 10-40% of the ocean to be under full protection.		
<b>Theme:</b>	Theme 1 – Marine Protected Areas		

**Ranking Criteria:**

- 5 – At least 20% of territorial sea is fully protected (fisheries replenishment zones)  
 4 – At least 15% of territorial sea is fully protected (fisheries replenishment zones)  
 3 – At least 10% of territorial sea is fully protected (fisheries replenishment zones)  
 2 – At least 5% of territorial sea is fully protected (fisheries replenishment zones)  
 1 – Less than 5% of territorial sea is fully protected (fisheries replenishment zones)

**Responsible:**

<b>Organization:</b>	Independent consultant
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**Grade:**

<b>Grade:</b>	2020: 1-Very Poor	2016: 2-Poor	2014: 2-Poor	2011: 2-Poor
<b>Result:</b>	2020: Total area of 540.3 km <sup>2</sup> of RZ/NTK that represents 2.25% of the total territorial sea. 2016, 2014 & 2011 - Honduras has 2.2% of its territorial sea inside fully-protected (no fishing) zones			

**Observations:**

<b>Observations:</b>	<p><b>2020</b> - There has been a change in the criterium of evaluation between 2016 and 2020: for each ranking criteria, percentages have increased. So even if the area of fully protected zones (RZ &amp; NTZ) has increased, the grade has decreased. Also, there has been a change in the way the TS is calculated, which is reflected in HN1b.48. The area of RZs within our TS is now 510.3 km<sup>2</sup>, which still remains in Very Poor (1). The new RZs located in Cuyamel, Cuero y Salado, Utila, and Trujillo are integrated. The total percentage is based on the information found in HN1b.32, HN1b.43 &amp; HN1b.44. A summary table is presented (HN1b.47) and an integrated GIS layer was built (HN1b.46).</p> <p><b>2016</b> - Although the area under full protection increased from 523 km<sup>2</sup> to 524 km<sup>2</sup>, the percentage remains at 2.2% for the entire country (HN1b.23 - 25). There are documents included that support the NTZ zones and how they are being managed (HN1b.15 - 22), as well as shape files for some of these areas (HN1b.16).</p> <p><b>2014 &amp; 2011</b> - Using GIS overlays it was determined that 2.2% of Honduras' territorial sea is inside fully protected zones of MPAs (HN1b.9, HN1b.10, HN1b.11). Specifically, Honduras has 23,987 km<sup>2</sup> of territorial sea and 522 km<sup>2</sup> inside MPAs (spatial information in HN1a.4; summary in HN1a.13). Data was compiled by HRI using national government data on MPAs (HN1b.9, HN1b.10, HN1b.11). A full list of MPAs can be found in HN1b.12. Please note that some numbers may differ slightly from those reported in individual management plans due to the fact that HRI only calculated the marine portion of each reserve. Several management plans and country reports include the total area of an MPA, which may include the area of marine waters, inland waters and land in its summary tables. Slight differences may also be the result of using different GIS layers (maps). The legal orientation and description for each protected area can be found in HN1a.1/p14 &amp; 49, HN1a.2/2.4.3 p.33 &amp; 1.2.4.4 p.12, HN1a.3/1.1 p.3 &amp; 1.4.3 p.33, HN1a.4/ p.11 &amp; p.17, HN1a.5/II.1 p.8 &amp; II.2.2 p.30, HN1a.6/II p.7 III p.10, HN1b.7 p.1 Article 1, and HN1b.8 p.2 Article 1.</p>
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**Source:**

	Document/File name	Date	Institution	Location
2011	HN1b.1 Plan de Manejo 2008-12: Monumento Natural Marino Archipelago Cayos Cochinos, Honduras	Jan-09	HCRF	HCRF
	HN1b.2 Proyecto Manejo Ambiental de Islas de la Bahía	May-02	Instituto Hondureño de Turismo	Instituto Hondureño de Turismo
	HN1b.3 Plan de Manejo Parque Nacional Punta Izopo	Apr-04	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado
	HN1b.4 Plan de Manejo Pesquero Refugio de Vida Silvestre Barras Cuero y Salado 2010-2014	Apr-04	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado
	HN1b.5 Programa de Uso Público Parque Nacional Jeannette Kawas	June-Dec 2011	PROLANSATE	PROLANSATE
	HN1b.6 Plan de Manejo Biosfera del Río Platano	Jul-00	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado

	HN1b.7 Acuerdo Presidencial 3056-91-Islands del Cisne	Oct-91	Secretaría de Recursos Naturales y Ambiente	Secretaría de Recursos Naturales y Ambiente
	HN1a.8 MPA Boundary & Regs Parque Nacional Cuyamel Omoa	2011	Instituto Nacional de Conservación y Desarrollo Forestal y Vida Silvestre	Instituto Nacional de Conservación y Desarrollo Forestal y Vida Silvestre
	HN1b.9 Eco Audit HN-GIS Shape files	Dec-11	HRI	HRI
	HN1b.10 Eco Audit Summary Statistics	Dec-11	HRI	HRI
	HN1b.11 JPEG Map of MAR Protected Area &	Dec-11	HRI	HRI
	HN1b.12 MAR MPA List	Dec-11	HRI	HRI
2014	HN1a.13 Eco Audit 2013 MPAs GIS	Aug-13	HRI	HRI
	HN1a.14 MPAs NTZs MAR Reefs	Aug-13	HRI	HRI
	HN1b.15 Acuerdo Plan de Manejo Banco Cordelia	Sep-13	Instituto Nacional de Conservación y Desarrollo Forestal y Vida Silvestre	Instituto Nacional de Conservación y Desarrollo Forestal y Vida Silvestre
	HN1b.16 Banco Cordelia Shape Files	Apr-13	Instituto Nacional de Conservación y Desarrollo Forestal y Vida Silvestre	Instituto Nacional de Conservación y Desarrollo Forestal y Vida Silvestre
	HN1b.17 Plan de Manejo Banco Cordelia	2013	Instituto Nacional de Conservación y Desarrollo Forestal y Vida Silvestre	Instituto Nacional de Conservación y Desarrollo Forestal y Vida Silvestre
2016	HN1b.18 Decreto Legislativo 75-2010 PNMIB	Jul-10	Instituto Nacional de Conservación y Desarrollo Forestal y Vida Silvestre	Instituto Nacional de Conservación y Desarrollo Forestal y Vida Silvestre
	HN1b.19 Ordenanza Areas de No Pesca	Jun-14	Municipalidad de Guanaja	Municipalidad de Guanaja
	HN1b.20 Areas de Restauración Pesquera PAMUCH	Jan-14	Instituto Nacional de Conservación y Desarrollo Forestal y Vida Silvestre	Instituto Nacional de Conservación y Desarrollo Forestal y Vida Silvestre
	HN1b.21 Proyecto Manejo Zonas de Restauración Pesquera Cayos Cochinos	May-11	HCRF	HCRF
	HN1b.22 Plan de Manejo Cuyamel Omoa	Jul-12	ICF	ICF
	HN1b.23 EA table 2015 v1	Dec-12	HRI	HRI
	HN1b.24 GIS MAR MPAs attributes	Dec-12	HRI	HRI
	HN1b.25 MAR MPAs NTZs 2015	Dec-12	HRI	HRI
	HN1b.26 Línea base biológica para la recuperación pesquera Utila	2017	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1b.27 Línea base biológica para la recuperación pesquera French Cay, Roatán	2017	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1b.28 Principios biofísicos para la creación de red de ZRP en el SAM	2017	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1b.29 Poster regulaciones y beneficios ZRP en Guanaja	2020	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1b.30 Excel con % de ZRP/NTZ	2020	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1b.31 Ordenanza municipal NTZ en	2014	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1b.32 SIGs ZRP	2017	HRI/CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1b.33 SIGs ZEPA	2017	HRI/CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1b.34 Ordenanza municipal ZRP en Utila	2018	CORAL-Utila	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1b.35 Mapa ZRP Utila	2020	CORAL-Utila	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
2020	HN1b.36 Acuerdo ZEPA y monitoreo de pepino de mar	2014	CORAL-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1b.37 Ordenanza municipal para ZRP en Tela	2019	CORAL-Tela	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1b.38 Mapa de ZRP en Tela	2019	CORAL-Tela	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1b.39 Acuerdo PAMUCH	2015	CCO	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1b.40 Acuerdo Banco Cordelia	2012	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1b.41 Subconvenio ICF, FUCSA, APROCUS Y LA SAG	2010	FUCSA	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1b.42 Ordenanza municipal ZRP Cayo Blanco	2019	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1b.43 Cayo Blanco	2020	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1b.44 SIG PAMUCH	2015	CCO	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1b.45 Cordelia Zoning	2017	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1b.46 GIS Honduras RZ 2020	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1b.47 EcoAudit-2020-HN-1b	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>

#### Approval:

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**Healthy Reef Initiative**  
**Collection Sheet Eco-Audit 2020 - Honduras**

**Indicator:**

<b>Name:</b>	Percentage of mapped coral reef areas included in fully protected zones	<b>Status:</b>	Final
<b>Description:</b>	Ideally, the amount of sea under full protection will be representative of each habitat or ecosystem type, including seagrass beds, mangroves, sand flats, etc. Given the historical conservation focus and high value of coral reefs, this indicator specifically measures progress in fully protecting a portion of this critical ecosystem.		
<b>Theme:</b>	Theme 1 – Marine Protected Areas		

**Ranking Criteria:**

- 5 – At least 20% of coral reefs are inside full protection/fisheries replenishment zones  
 4 – At least 15% of coral reefs are inside full protection/fisheries replenishment zones  
 3 – At least 10% of coral reefs are inside full protection/fisheries replenishment zones  
 2 – At least 5% of coral reefs are inside full protection/fisheries replenishment zones  
 1 – Less than 5% of coral reefs are inside full protection/fisheries replenishment zones

**Responsible:**

<b>Organization:</b>	Independent consultant
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**Grade:**

<b>Grade:</b>	2020: 3-Fair	2016: 5-Very Good	2014: 4- Good	2011: 5-Very Good
<b>Result:</b>	<p><b>2020</b> - Based on the new estimates carried out by AGRRA and HRI, Honduras has 133.65 km<sup>2</sup> of coral reefs (see HN1c.28). The NTZs amount to an area of 17.4 km<sup>2</sup>, which reflects a 12% of coral reefs inside fully protected areas, resulting in a score of 3 (fair).</p> <p><b>2016</b> - Honduras has 159.9 km<sup>2</sup> of coral reefs with 16.3 km<sup>2</sup> in fully protected areas or zones, resulting in 10.2% of reefs under full protection.</p> <p><b>2014</b> - Honduras has 159.9 km<sup>2</sup> of coral reefs with 12.8 km<sup>2</sup> in fully protected areas or zones, resulting in 8.0% of reefs under full protection.</p> <p><b>2011</b> - Honduras has 144.9 km<sup>2</sup> of coral reefs with 13.9 km<sup>2</sup> in fully protected areas or zones, resulting in 9.6% of reefs under full protection.</p>			

**Observations:**

<b>Observations:</b>	<p><b>2020</b> - The coral reef area part of fully protected areas has increased to 21.9 km<sup>2</sup>, which represents 13.7% of the total coral reef estimated area (159.9 km<sup>2</sup>). Yet there has been a change in the criterium of evaluation between 2016 and 2020: for each ranking criteria, percentages have increased. So even if the fully protected reefs have increased, as the ranking criteria have changed, the grade has diminished. Moreover, the coral reef area of Honduras was re-estimated based on HN1c.20, HN1c.21 &amp; HN1c.22, and it reaches 301.1 for the coral reefs inside the MAR. A summary table is presented (HN1c.27), and an integrated GIS layer was built for coral reefs in Honduras (HN1b.25) and inside fully protected areas (HN1b.26).</p> <p><b>2016</b> - Using GIS overlays (HN1c.15 &amp; 18) and the new limits and attributes for MPAs (HN1c.17 lists the meta-data for each area in each country), it was determined that Honduras has 16.3 km<sup>2</sup> of coral reefs within fully protected areas, resulting in a 10.2% of reefs under full protection. Also, based on comments included in HN1c.16 by Lorenzo A. Filip who carried out the calculations, he states: "Increase due to a reassessment of MPAs network (by Iliana Cholette) rather than the establishment of new MPAs" and "After the revision of Iliana Cholette one NTZ was removed (Cayos Cochinos). And two new NTZ were included in Guanaja (inside Bay Islands). These changes resulted in a considerable increase in the amount of reefs inside NTZs (due to the Guanaja NTZs) despite the apparent small increase in the total NTZ area (due to the exclusion of Cayos Cochinos NTZ)."</p> <p><b>2014</b> - Using GIS overlays it was determined that 8.0% of Honduras' coral reef habitat is inside fully protected zones of MPAs (HN1c.13, HN1c.14). Specifically, Honduras has 159.9 km<sup>2</sup> of coral reefs and 12.8 km<sup>2</sup> in fully protected areas or zones (HN1c.13, HN1c.14). There is an increase in the amount of coral reefs that Honduras has due to the "discovery" (addition) of the reefs in the Bay of Tela. This increase in coral reefs, but not an increase in areas under "full protection", allowed for a reduction in the percentage of reefs under full protection, which is why the score went down from a "5" in 2011 to a "4" in 2013.</p>
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**2011** - Using GIS overlays it was determined that 9.6% of Honduras' coral reef habitat is inside fully protected zones of MPAs (HN1c.9, HN1c.10, HN1c.11). Specifically, Honduras has 145 km2 of coral reefs and 14 km2 in fully protected areas or zones (HN1c.9, HN1c.10, HN1c.11). Data was compiled by HRI using national government data on MPAs fully protected zones and using the Reefs at Risk coral reef layer. Please note that some numbers may slightly differ from those reported in individual management plans due to the fact that HRI only calculated the marine portion of each reserve. Several management plans and country reports include the total area of an MPA, which may include the area of marine waters, inland waters and land in its summary tables. Slight differences may be the result of different GIS layers (maps). The legal orientation and description for each protected area can be found in HN1a.1/p14 & 49, HN1a.2/2.4.3 p.33 & 1.2.4.4 p.12, HN1a.3/1.1 p.3 & 1.4.3 p.33, HN1a.4/ p.11 & p.17, HN1a.5/II1.1 p.8 & II2.2 p.30, HN1a.6/II p. 7 III p.10, HN1b.7 p. 1 Article 1, and HN1b.8 p.2 Article 1.

**Source:**

	Document/File name	Date	Institution	Location
2011	HN1c.1 Plan de Manejo 2008-12: Monumento Natural Marino Archipelago Cayos Cochinos, Honduras	Jan-09	HCRF	HCRF
	HN1c.2 Proyecto Manejo Ambiental de Islas de la Bahia	May-02	Instituto Hondureño de Turismo	Instituto Hondureño de Turismo
	HN1c.3 Plan de Manejo Parque Nacional Punta Izopo	Apr-04	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado
	HN1c.4 Plan de Manejo Pesquero Refugio de Vida Silvestre Barras Cuero y Salado 2010-2014	Apr-04	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado
	HN1c.5 Programa de Uso Publico Parque Nacional Jeannette Kawas	June-Dec 2011	PROLANSATE	PROLANSATE
	HN1c.6 Plan de Manejo Biosfera del Rio Platano	Jul-00	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado
	HN1c.7 Acuerdo Presidencial 3056-91-Islas del Cisne	Oct-91	Secretaría de Recursos Naturales y Ambiente	Secretaría de Recursos Naturales y Ambiente
	HN1a. 8 MPA Boundary & Regs Parque Nacional Cuyamel Omoa	2011	Instituto Nacional de Conservacion y Desarrollo Forestal y Vida Silvestre	Instituto Nacional de Conservacion y Desarrollo Forestal y Vida Silvestre
	HN1c.9 Eco Audit HN-GIS Shape files	Dec-11	HRI	HRI
	HN1c.10 Eco Audit Summary Statistics	Dec-11	HRI	HRI
	HN1c.11 JPEG Map of MAR Protected Area & Reef	Dec-11	HRI	HRI
	HN1a.12 MAR MPA List	Dec-11	HRI	HRI
2014	HN1b.13 Eco Audit 2013 MPAs GIS	Aug-13	HRI	HRI
	Hn1b.14 MPAs NTZs MAR Reefs	Aug-13	HRI	HRI
2016	HN1c.15 Shapes Arrecifes de Honduras	Aug-15	DIGEPESCA	DIGEPESCA
	HN1c.16 EA table 2015 v1	Dec-15	HRI	HRI
	HN1c.17 GIS MAR MPAs attributes	Dec-15	HRI	HRI
	HN1c.18 MAR MPAs NTZs 2015	Dec-15	HRI	HRI
2020	HN1c.19 Alegria & Pérez, 2016	2016	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1c.20 Report Honduras Eastern Reefs	2015	HRI/CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1c.21 Report Honduras North Shore Reefs	2016	HRI/CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1c.22 Smithsonian Benthic habitat SIGs	2017	HRI/CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1c.23 Excel con % de ZRP/NTZ	2020	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1c.24 Reserve Habitats Honduras CEM-Rare	2020	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1c.25 GIS Honduras Coral Reef 2020	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1c.26 GIS Coral Reefs in RZ Honduras 2020	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1c.27 EcoAudit-2020-HN-1c	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>

**Approval:**

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Healthy Reef Initiative Collection Sheet Eco-Audit 2020 - Honduras			
<b>Indicator:</b>			
Name:		Status: Final	
Description:		Percent of MPAs with good management	
Theme:		The legal establishment of MPAs is an important milestone, yet the attainment of conservation and management goals will only be achieved through sound management of these areas. This indicator provides a snapshot of management capacity (existing management plans, staff and equipment) for	
		BICA in each country	
		Theme 1 – Marine Protected Areas	
<b>Ranking Criteria:</b>			
<p>5 – At least 75% of MPAs must have a current management plan and adequate staff and equipment; and the remaining 25% should not be classified as having 'no current management plan' and 'no staff and equipment' or 'inadequate staff and equipment'</p> <p>4 – At least 60% of MPAs have a current management plan and adequate staff and equipment; and from the remaining MPAs no more than 10% are classified as having 'no current management plan' and 'no staff and equipment' or 'inadequate staff and equipment'</p> <p>3 – At least 50% of MPAs have a current management plan and at least 50% have nearly adequate staff and equipment.</p> <p>2 – At least 25% of MPAs have a current management plan and at least 25% have nearly adequate staff and equipment.</p>			
<b>Responsible:</b>			
Organization:		Independent consultant	
Contact:		Angela Randozzo Esemann	
E-mail:		esemannranda20@gmail.com	
<b>Grade:</b>			
Grade:	2020: 1-Very Poor	2016: 2-Poor	2014: 2-Poor
Result:	<p>2020 - 36% of MPAs have updated management plans, and 9% of MPAs have nearly adequate staff and equipment.</p> <p>2016 - Sixty seven percent (67%) of MPAs in Honduras have up-to-date management plans, while 17% have partial or no management plan. No MPA has the adequate staff and equipment, while 50% have nearly adequate staff and equipment, and the remaining 50% have inadequate staff and equipment.</p> <p>2014 - Fifty five percent (55%) of Honduras' MPAs have up-to-date management plans (HN1d.5; HN1d.18; HN1d.20; HN1d.21; HN1d.22; HN1d.23), while a minority (20%) have only partial plans (HN1d.2; HN1d.4; HN1d.8). The remaining 20% have no management plans. None of these MPAs have adequate staff and equipment, a quarter (27%) have nearly adequate staff and equipment, while the majority (73%) have inadequate staff and equipment (summary table in HN1d.24). HN1d.11 shows the participation of BICA in Environmental Impact Assessments. HN1d.12, 14, 15 and 16 how the patrolling activities carried out by HCRF, RMP and RVSCS, respectively. HN1d.13 are all the newsletters printed by RMP between 2010 and 2013. HN1d.17 is the agreement by the HON Govt accepting the Cordelia Banks Management Plan (HN1d.18), while HN1d.19 is the receipt to print Cordelia Banks' Mgmt Plan in the Official Gazette. HN1d.20, 21, 22 and 23 are the updated Mgmt plans for PNK, BI, Port Royal and Turtle</p> <p>2011 - Twenty percent (20%) of Honduras' MPAs have up-to-date management plans, while the majority (60%) have only partial plans. The remaining 20% have no management plans. None of these MPAs have adequate staff and equipment and most (90%) have inadequate staff and equipment.</p>		
<b>Observations:</b>			
Observations:	<p>2020 - Information about the management plan, staff, and equipment was obtained through a survey made to representatives of each MPA in the Honduras MAR. A summary table with this information is presented (HN1d.60). The management plans of new MPAs are still in process (RVSC, RVSLG &amp; RVSMBT), and some management plans of older MPAs are being updated (RVSCS, PNPI &amp; PNMI8) or will be after pandemic (PNND). 64% of MPAs representative point out that the staff is inadequate and 27% that there is none to ensure good management in these significantly big areas. A systemic evaluation made by ICF every two years highlights that 55% of MPAs do not have acceptable management (HN1d.58 &amp; HN1d.60). Moreover, related to the pandemic, the government declared a national priority to develop agriculture and reinforce food security. Article 4 of these two decrees HN1d.36 &amp; HN1d.37, mention that the government must decide which lands belonging to the state should be dedicated to agriculture. This can be a potential threat for some protected areas in Honduras if the government judge that the land must be used for food production.</p> <p>2016 - Sixty seven percent (67%) of MPAs in Honduras have up-to-date management plans, while 17% have partial or no management plan (HN1d.35). MPAs with current management plans are Cayos Cochinos, The Bay Islands, Cuyamel-Omoa, Cuero y Salado, Punta Sal and Banco Cordelia. No MPA has the adequate staff and equipment, while 50% have nearly adequate staff and equipment, and the remaining 50% have inadequate staff and equipment. MPAs with nearly adequate staff or equipment are Cayos Cochinos, Roatan, Utila, Cuyamel-Omoa, Cordelia Banks and Tela Coral System. The managers of MPAs are actively working, creating yearly operating plans (HN1d.26, 27 &amp; 28); are signing collaboration and co-management agreements (HN1d.29,30, 31, 32 &amp; 34); and are applying tools such as acting</p> <p>2014 - Each MPA was discussed and estimated during the 2nd HRI Regional Partners Meeting held in Belize in August of 2013. Through emails and follow-up conversations, other new and updated management plans were acquired. The MPA Data Collection sheet was updated, where some changes can be observed with updated management plans and improved private sector assistance to MPAs. This is why this indicator improved in grading. HN1d.16 shows how Cuero y Salado MPA are carrying on patrolling, these are all their patrolling reports from 2010 to 2012. They could not share any from 2013 due to on-going legal processes. HN1d.17, on Pg. 2, second to last paragraph, shows that the Honduran Govt approves the Management Plan for Cordelia Banks Site of Wildlife Importance, which is HN1d.18. Pg. 58 shows the Patrolling Program for this MPA. HN1.20, Pg. 149, shows the Patrolling Program for Jeanette Kawas National Park. HN1d.21, Pg. 51, shows the Patrolling Program for Bay Islands National Marine Park. HN1d.22. Pg. 47, shows the Patrolling Program for Port Royal National Park. HN1d.23, Pg. 48, shows the Patrolling Program for Turtle Harbour Wildlife Refuge.</p> <p>2011 - Each MPA was ranked individually by its managing agency during the Honduras Eco Audit national workshop (La Ceiba at the CREDIA Foundation, October 18, 2011-HN1d.1 &amp; HN1d.10). Twenty percent (20%) of Honduras' MPAs have up-to-date management plans (HN1d.2 (Pg. 1); HN1d.5 (Pg. 11), while the majority (60%) have only partial plans (HN1d.3 (Pg. 1); HN1d.4 (Pg. 1); HN1d.6 (Pg. 2); HN1d.8 (Pg. 1)). The remaining 20% have no management plans (Islas del Corno and Cuyamel Omoa). The Government currently does not financially support any protected area in Honduras and as a result, relies on co-management schemes to establish legally binding partnerships with local entities. This co-management allows local NGOs to legally manage protected areas, developing user fees and other self-financing projects in order to support all of its activities. Due to the lack of governmental financial support, most MPAs have outdated or no management plans as well as limited staff and equipment. As a result, many rely heavily on volunteers and local support. The Protected Areas Department (within the Forestry Ministry) is currently promoting a new effort to organize local consulting groups for all protected areas. These consulting groups will act as official liaisons between communities and government officials to draft and approve new management plans (Article 21 (Pg. 366)/HN1d.9). The following documents were provided as evidence of management plans and staff &amp; equipment: HN1d.2 (Pg.107), HN1d.3 (Pg. 1); HN1d.4 (Pg. 1); HN1d.5 (Pg. 1); HN1d.6 (Pg. 1); HN1d.7 (Pg. 1); &amp; HN1d.8 (Pg. 1).</p>		
<b>Source:</b>			
Document/File name	Date	Institution	Location
HN1d.1 MPA Original Data Collection	Oct-11	Healthy Reefs	Healthy Reefs Initiative
HN1d.2 Plan de Manejo 2008-12: Monumento Natural Marino Archipelago Cayos Cochinos, Honduras	Jan-09	HCRF	HCRF
HN1d.3 Proyecto Manejo Ambiental de Islas de la Bahia	May-02	Instituto Hondureño de Turismo	Instituto Hondureño de Turismo

2011	HN1d.4 Plan de Manejo Parque Nacional Punta Izopo	Apr-04	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado												
	HN1d.5 Plan de Manejo Pesquero Refugio de Vida Silvestre Barras Cuero y Salado 2010-2014	Apr-04	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado												
	HN1d.6 Programa de Uso Público Parque Nacional Jeannette Kawas	Jun-Dec 2011	PROLANSATE	PROLANSATE												
	HN1d.7 Presupuesto Guanaja Final 7	Dec-11	TNC	TNC												
	HN1d.8 Plan de Manejo Biosfera del Río Platano	Jul-00	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado												
	HN1d.9 Decreto 98-1007	Sep-07	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado												
	HN1d.10 Participant List-Honduras Eco Audit national workshop	Oct-11	HRI	HRI												
	HN1d.11 EIAS BICA Roatan 2011 2013	Sep-13	BICA Roatan	BICA Roatan												
	HN1d.12 Graficas Patrullaje CC 2008 2012	Sep-13	Fundacion Cayos Cochinos	Fundacion Cayos Cochinos												
	HN1d.13 RMP Newsletters 2010 2013	Sep-13	Roatan Marine Park	Roatan Marine Park												
2014	HN1d.14 Hoja para Reporte de Incidentes RMP	Sep-13	Roatan Marine Park	Roatan Marine Park												
	HN1d.15 Patrolling Report RMP 2010 2012	Sep-13	Roatan Marine Park	Roatan Marine Park												
	HN1d.16 Patrullajes RVSCS 2010 2012	Sep-13	Fundacion Cuero y Salado	Fundacion Cuero y Salado												
	HN1d.17 Acuerdo Plan de Manejo Cordella	Sep-13	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado												
	HN1d.18 Plan de Manejo Banco Cordella	Aug-13	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado												
	HN1d.19 Pago Publicacion Gaceta Plan Manejo Banco Cordella	Sep-13	HRI	HRI												
	HN1d.20 Plan de Manejo PNK	Jun-12	PROLANSATE	PROLANSATE												
	HN1d.21 Plan de Manejo Islas de la Bahia	Aug-12	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado												
	HN1d.22 Plan de Manejo Port Royal	Aug-12	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado												
	HN1d.23 Plan de Manejo Turtle Harbour	Aug-12	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado												
2016	HN1d.24 MPA 2013 Data Collection	Sep-13	HRI	HRI												
	HN1d.25 Plan Operativo Anual RMP Cordella	Jan-15	Roatan Marine Park	Roatan Marine Park												
	HN1d.26 POB SBWE BICA y RMP	Jan-15	Roatan Marine Park	Roatan Marine Park												
	HN1d.27 Plan de Conservacion PNM Islas de la Bahia	May-13	Instituto Nacional de Conservacion y Desarrollo Forestal y Vida Silvestre	Instituto Nacional de Conservacion y Desarrollo Forestal y Vida Silvestre												
	HN1d.28 Convenio Comanejo PNMB 2014-2019	Dec-14	Instituto Nacional de Conservacion y Desarrollo Forestal y Vida Silvestre	Instituto Nacional de Conservacion y Desarrollo Forestal y Vida Silvestre												
	HN1d.29 ACTA Comite Tecnico PNMB	Aug-15	HRI	HRI												
	HN1d.30 Ayuda Memoria Marzo 2015 Comite PNMB	Mar-15	HRI	HRI												
	HN1d.31 Acta Compromiso Protocolo Roatan Actuacion	2015	HRI	HRI												
	HN1d.32 Propuesta de Protocolo de Actuaciones Version final	2015	HRI	HRI												
	HN1d.33 Convenio ZOUTUR/INT Demarcacion PNMB Fimado	Oct-13	ZOUTUR	ZOUTUR												
2020	HN1d.34 MPA 2015 Data Collection	2015	HRI	HRI												
	HN1d.35 Estado del manejo integrado de los espacios y recursos marinos y costeros	2018	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>												
	HN1d.36 PCM-030	2020	ICF	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>												
	HN1d.37 PCM-041	2020	ICF	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>												
	HN1d.38 Aprobacion plan de manejo PNK 2019-2029	2019	CORAL-Tela	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>												
	HN1d.39 Borrador de plan de manejo de Punta Izopo 2020-2032	2019	CORAL-Tela	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>												
	HN1d.40 Plan de manejo del RVSMBT (etapa final) 2020-2030	2019	CORAL-Tela	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>												
	HN1d.41 Plan de manejo del PNK	2019	CORAL-Tela	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>												
	HN1d.42 Normativa Pamuch	2016	CCO	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>												
	HN1d.43 Plan de manejo del MNMACC 2014-2025	2016	CCO	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>												
	HN1d.44 HN1d.44 Plan de Manejo RVSCS-2RP 2018	2020	FUSCA	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>												
	HN1d.45 Foto de borrador de plan de manejo RVSLG	2020	ICF-Trujillo	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>												
	HN1d.46 Foto de convenio de comanejo RVSLG	2019	ICF-Trujillo	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>												
	HN1d.47 Plan de Uso Público RVSLG	2016	ICF-Trujillo	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>												
	HN1d.48 Oficio Plan de Uso Público RVSLG	2016	ICF-Trujillo	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>												
	HN1d.49 Plan de Manejo PNND 2012	2012	FUPNAND	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>												
	HN1d.50 Plan de Conservación PNND	2014	FUPNAND	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>												
	HN1d.51 Plan de Manejo Versión Final RHBRP	2013	ICF-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>												
	HN1d.52 Plan de Conservación RHBRP	2013	ICF-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>												
	HN1d.53 Monitoreo Efectividad Manejo-RHBRP-2019	2019	ICF-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>												
	HN1d.54 Informe Monitoreo de Efectividad de Manejo PNK 2017	2017	ICF-La Ceiba	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>												
	HN1d.55 Informe Monitoreo de Efectividad de Manejo PNPI 2017	2017	ICF-La Ceiba	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>												
	HN1d.56 Informe final MEM 2017 cayos cochinos	2017	ICF-La Ceiba	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>												
	HN1d.57 Informe de Evaluación de Efectividad de Manejo PNMB	2017	ICF-La Ceiba	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>												
	HN1d.58 Puntuacion efectividad Manejo	2020	ICF-La Ceiba	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>												
	HN1d.59 Foto de plan de manejo de RVSC	2020	CCO	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>												
	HN1d.60 EcoAudit-2020-HN-1d	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>												
Approval:																
<table><tr><td>Organization:</td><td>Healthy Reefs Initiative</td></tr><tr><td>Contact:</td><td>Ian Drysdale</td></tr><tr><td>E-mail:</td><td><a href="mailto:drysdale@healthyreefs.org">drysdale@healthyreefs.org</a></td></tr><tr><td>Organization:</td><td>Healthy Reefs Initiative</td></tr><tr><td>Contact:</td><td>Melanie McField</td></tr><tr><td>E-mail:</td><td><a href="mailto:mcfeld@healthyreefs.org">mcfeld@healthyreefs.org</a></td></tr></table>					Organization:	Healthy Reefs Initiative	Contact:	Ian Drysdale	E-mail:	<a href="mailto:drysdale@healthyreefs.org">drysdale@healthyreefs.org</a>	Organization:	Healthy Reefs Initiative	Contact:	Melanie McField	E-mail:	<a href="mailto:mcfeld@healthyreefs.org">mcfeld@healthyreefs.org</a>
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Healthy Reef Initiative  
Collection Sheet Eco-Audit 2020 - Honduras

## Indicator:

Name:	Percent of MPAs with good enforcement	Status:	Final
Description:	Sound management of MPAs requires both the capacity and political will to enforce regulations. This indicator measures the degree of enforcement in each MPA.		
Theme:	Theme 1 – Marine Protected Areas		

## Ranking Criteria:

- 5 – At least 75% of MPAs have good enforcement and the remaining 25% have moderate enforcement  
 4 – At least 60% of MPAs have good enforcement and the remaining 40% have moderate enforcement  
 3 – At least 50% of MPAs have at least moderate enforcement  
 2 – At least 25% of MPAs have at least moderate enforcement  
 1 – Fewer than 25% of MPAs have at least moderate enforcement

## Responsible:

Organization:	Independent consultant
Contact:	Angela Randazzo Eisemann
E-mail:	<a href="mailto:eisemannrandazzoangela@gmail.com">eisemannrandazzoangela@gmail.com</a>

## Grade:

Grade:	2020: 1-Very Poor	2016: 3-Fair	2014: 2-Poor	2011: 1-Very Poor
Result:	<p>2020 - 18% of MPAs in Honduras MAR have good enforcement, 27% have moderate enforcement, and 55% have inadequate enforcement.</p> <p>2016 - 58% of MPAs in Honduras have moderate enforcement, while 33% have inadequate enforcement and only 8% has no enforcement (HN1e.20).</p> <p>2014 - The majority of Honduras' MPAs receive inadequate enforcement (64%), while the remaining MPAs receive 27% moderate, 9% none, and 0% good level of enforcement. As a result, Honduras' MPAs have 27% with at least a moderate level of enforcement.</p> <p>2011 - The majority of Honduras' MPAs receive inadequate enforcement (80%), while the remaining MPAs receive 10% moderate, 10% none, and 0% good level of enforcement. As a result, Honduras' MPAs have less than 25% with at least a low level of enforcement (includes 10% moderate + 0% good).</p>			

## Observations:

Observations:	<p>2020 - Information about the enforcement was obtained through a survey made to representatives of each MPA in the Honduras MAR. A summary table with this information is presented (HN1e.36). The MPAs with good enforcement are MNMACC and RVSLG. The MPAs with moderate enforcement are RVSBGS, PNJK, and RVSC. Most of the MPAs coordinate patrolling, but they are limited by financial resources, as well as inadequate staff and equipment. There are inter-institutional committees, with representatives from the private, governmental and civil sector, which were recently founded to improve enforcement and governance in Tela (HN1e.22), Guanaja (HN1e.27), Omoa (HN1e.28 &amp; HN1e.29), and RHBRP (HN1e.33, HN1e.34 &amp; HN1e.35).</p> <p>2016 - 58% of MPAs in Honduras have at least moderate enforcement, while 33% have inadequate enforcement and only 8% has no enforcement (HN1e.20). 7 MPAs have "moderate" enforcement: Cayos Cochinos, Roatan, Guanaja, Utila, Cuyamel-Omoa, Cordelia Banks and Tela Bay, while 4 MPAs have "inadequate" enforcement: Cuero y Salado, Punta Izopo, Rio Platano and Punta Sal. Only Swan Islands has "No enforcement". HN1e.14 is the management plan for the Site of Fisheries Restoration in the Cuyamel-Omoa MPA; HN1e.15, 16 &amp; 17 are the Operative Annual Plans for RMP, BICA and BICA Utila; HN1e.18 &amp; 19 refer to the patrols carried out in the Bay of Tela MPA.</p> <p>2014 - Each MPA was ranked during the 2nd HRI Regional Partners Meeting held in Belize in August of 2013 (summary table in HN1e.13). Through emails and follow-up conversations, an increase in moderate application was seen, improving the grading of this criteria from "1" in 2011 to "2" in 2013. As a result, 27% of the MPAs in Honduras have moderate enforcement. HN1e.7 shows the participation of BICA in Environmental Impact Assessments. HN1e.8, 9, 10 and 12 show the patrolling activities carried out by HCRF, RMP and RVSCS. HN1e.11 are all the newsletters printed by RMP between 2010 and 2013.</p> <p>2011 - Each MPA was ranked individually by its managing agency during the Honduras Eco-Audit national workshop (La Ceiba at the CREDIA Foundation, October 18, 2011-HN1e.1 &amp; HN1d.10). The majority of Honduras' MPAs receive inadequate enforcement (80%) (HN1e.1, Bay Islands/HN1e.2, HN1e.5, HN1e.6, Parque Nacional Cuyamel Omoa, Cuero y Salado, Punta Izopo, Rio Platano, Janeth Kawas), while the remaining MPAs receive 10% moderate (Cayos Cochinos/HN1e.3 and HN1e.4), 10% none (Islas del Cisne). The Government currently does not financially support any protected area in Honduras and as a result relies on co-management schemes to establish legally binding partnerships with local entities. This co-management allows for local NGOs to legally manage protected areas, developing user fees and other self-financing projects in order to support all its activities. Thus, most MPAs do not have adequate staffing, boats and fuel budgets to perform routine and comprehensive patrols. The following documents were provided as evidence of enforcement efforts: HN1e.2, HN1e.3, HN1e.4, HN1e.5 &amp; HN1e.6.</p>
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**Source:**

	Document/File name	Date	Institution	Location
2011	HN1e.1 MPA Original Data Collection	Oct-11	HRI	HRI
	HN1e.2 Enforcement Reports Roatan	2007-2011	Amigos del Parque Marino de Roatan	Amigos del Parque Marino de Roatan
	HN1e.3 Vigilancia Ene Feb Marzo 2011 Cayos Cochinos	2011	Honduras Coral Reef Fund	Honduras Coral Reef Fund
	HN1e.4 Vigilancia Abr May Jun 2011 Cayos Cochinos	2011	Honduras Coral Reef Fund	Honduras Coral Reef Fund
	HN1e.5 Reporte para ICF Oct 2011	Oct-11	Amigos del Parque Marino de Roatan	Amigos del Parque Marino de Roatan
	HN1e.6 Actividades BICA 2010-2011	Sep-11	BICA Utila	BICA Utila
2014	HN1e.7 EIAs BICA Roatan 2011 2013	Sep-13	Bay Islands Conservation Association Roatan	Bay Islands Conservation Association Roatan
	HN1e.8 Graficas Patrullajes Cayos Cochinos 2008 2012	Sep-13	Cayos Cochinos	Cayos Cochinos
	HN1e.9 RMP Newsletters 2010 2013	Sep-13	Roatan Marine Park	Roatan Marine Park
	HN1e.10 Hoja para Reporte de Incidentes RMP	Sep-13	Roatan Marine Park	Roatan Marine Park
	HN1e.11 Patrolling Reports RMP 2010 2012	Jan-13	Roatan Marine Park	Roatan Marine Park
	HN1e.12 Patrullajes RVSCS 2010 2012	Jan-13	Fundacion Cuero y Salado	Fundacion Cuero y Salado
2016	HN1e.13 MPA 2013 Data Collection	Sep-13	HRI	HRI
	HN1e.14 Plan Acción Conservación Manejo Área Restauración Pesquera PAMUCH	Jan-14	CCO, MARFund, Digepesca, ICF, FENAPESCAH	CCO, MARFund, Digepesca, ICF, FENAPESCAH
	HN1e.15 Plan Operativo Anual RMP	Jan-15	Roatan Marine Park	Roatan Marine Park
	HN1e.16 POB SBWE BICA y RMP	Jan-15	Roatan Marine Park	Roatan Marine Park
	HN1e.17 POG BICA Utila		Bay Islands Conservation Association Roatan	Bay Islands Conservation Association Roatan
	HN1e.18 Base de Datos Patrullajes Tela	May-15	The Coral Reef Alliance (CORAL)	CORAL
2020	HN1e.19 Reportes Patrullajes Laguna de Los Micos	Sep-15	The Coral Reef Alliance (CORAL)	CORAL
	HN1e.20 MPA 2015 Data Collection	Dec-15	HRI	HRI
	HN1e.21 Estado del manejo integrado de los	2018	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1e.22 Ordenanza municipal sobre protocolo de acción en Tela	2019	CORAL-Tela	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1e.23 Resultado de patrullaje en la Laguna de los Micos	2019	CORAL-Tela	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1e.24 Resultado de vigilancia en CC	2019	Fundación Cayos Cochinos	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1e.25 Informe BICA con componente patrullaje.	2020	BICA-Utila	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1e.26 Programa de Control y vigilancia RMP	2019	RMP	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1e.27 Sostenibilidad del Fondo Ambiental de ZRP Guanaja	2018	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1e.28 Ayuda memoria 1er Reunion Comité Omoa y Puerto Cortes.	2018	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1e.29 Ayuda memoria 2da Reunion Comité Omoa y Puerto Cortes	2018	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1e.30 Protocolo de vigilancia del RVSLG	2019	ICF-Trujillo	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1e.31 Subconvenio ICF, FUCSA, APROCUS Y LA SAG	2010	FUCSA	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1e.32 Convenio Cooperación APROCUS	2018	FUCSA	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1e.33 Portada PMPA BACALAR	2020	GOAL	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1e.34 Portada PMPA BRUS LAGUNA	2020	GOAL	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1e.35 Acta Comité RHBRP	2018	ICF-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1e.36 EcoAudit-2020-HN-1e	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>

**Approval:**

<b>Organization:</b>	Healthy Reefs Initiative
<b>Contact:</b>	Ian Drysdale
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<b>Organization:</b>	Healthy Reefs Initiative
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Healthy Reef Initiative Collection Sheet Eco-Audit 2020 - Honduras		1f		
<b>Indicator:</b>				
<b>Name:</b>	Generation of alternatives for fishers within the network of MPAs	<b>Status:</b> Final		
<b>Description:</b>	Justification-Fisheries management strategies should provide alternative livelihoods for fishers and other communities whose income may be affected by the establishment of "Fully Protected (Replenishment) Zones" which prohibit fishing. Alternative income programs can assist fishers in fishing fewer days per year, while maintaining or increasing their total income from other diversified sources.			
<b>Theme:</b>	Theme 1 – Marine Protected Areas			
<b>Ranking Criteria:</b>				
<p>5 – A national-level strategy to provide fishers with long-term economic alternatives generated by the recovery of ecosystems through productive activities and/or payment of ecosystem services exists and is being implemented in between 85-100% of MPAs</p> <p>4 – A national-level strategy to provide fishers with long-term economic alternatives generated by the recovery of ecosystems through productive activities and/or payment of ecosystem services exists with implementation in between 50-84% of MPAs</p> <p>3 – A national-level strategy to provide fishers with long-term economic alternatives generated by the recovery of ecosystems through productive activities and/or payment of ecosystem services is being developed, with some alternative or sustainable livelihoods programs being implemented in between 20-49% of MPAs</p> <p>2 – At least one program exists (in one MPA) that provides fishers in at least one locality with economic alternatives through productive activities and/or payment of ecosystem services</p>				
<b>Responsible:</b>				
<b>Organization:</b>	Independent consultant			
<b>Contact:</b>	Angela Randazzo Eisemann			
<b>E-mail:</b>	<a href="mailto:eisemannrandazzoangela@gmail.com">eisemannrandazzoangela@gmail.com</a>			
<b>Grade:</b>				
<b>Grade:</b>	2020: 4-Good	2016: 2-Poor	2014: 2-Poor	2011: NA
<b>Result:</b>	<p><b>2020</b> - 91% of MPAs have diverse economic alternatives programs, including ecotourism and microbusiness development, while they promote economic diversification, sustainable forest management, sustainable fishing practices, and strengthened fishermen association. Also, there is a national document synthesizing economic alternatives and recommendations for North Coast communities (HN1f.11) and a regional program that worked in all Central American countries strengthening sustainable fisheries and promoting economic alternatives (HN1f.23).</p> <p><b>2016</b> - Alternatives are being implemented on the islands of Utila and Roatan. On Utila, a groups of artisanal women has been legally created, while on Roatan there is the Protect Our Pride program that benefits people of Roatan and Cordelia Banks. This adds up to 3 areas of the 12 MPAs listed under HN1f.10, which equals 25% of all MPAs, but there is no supporting document that allows raising the score to "3", as there is no evidence of economic alternatives generated and/or payment of ecosystem services. There is knowledge of other programs and activities but information was not received (HN1f.9).</p> <p><b>2014</b> - There is a program being implemented by the Roatan Marine Park NGO.</p> <p><b>2011</b> - This indicator had not been created when the 2011 Eco Audit was carried out.</p>			
<b>Observations:</b>				
<b>Observations:</b>	<p><b>2020</b> - The majority of MPAs (91%) have economic alternative projects for local communities: RHBRP (HN1f.27), RVSBSC (HN1f.11), PNJK (HN1f.11 &amp; HN1f.18), PNPI (HN1f.11 &amp; HN1f.18), MNMACC (HN1f.19 &amp; HN1f.20), PNND (HN1f.26), PNMIB (HN1f.12, HN1f.13, HN1f.14, HN1f.15, HN1f.21, HN1f.28 &amp; HN1f.29), RVSLG (HN1f.22 &amp; HN1f.24), RVSC (HN1f.25). The RVSMBT benefits from the economic alternatives in PNJK and PNPI communities. A summary table with this information is presented (HN1f.28). All these economic alternatives programs are "ground-based", as the funds were raised by the comanagers of protected areas and are not linked directly with a national strategy. Yet some strategic instruments promote the economic alternatives, at the national level (HN1f.11) and regional level (HN1f.23).</p> <p><b>2016</b> - Alternatives are being implemented on the islands of Utila and Roatan. On Utila, a group of artisanal women has been legally created (HN1f.5), which looks to improve livelihoods for these families, reducing their depend on fisheries; while on Roatan there is the Protect Our Pride program that benefits people of Roatan and Cordelia Banks (HN1f.8). Protect Our Pride is aimed at young, local islanders to teach them to dive and slowly take them up the certification to Dive Master or even Instructor, this creates a work force of local islanders that can then work in the tourism sector and not necessarily have to depend on fisheries or other extractive jobs. This adds up to 3 areas of the 12 MPAs listed under HN1f.10, which equals 25% of all MPAs. HN1f.6 shows the list of people trained to spear lionfish and each one of those has received a special fishing license. HN1f.7 is the legal paperwork to create a group of bee keepers in the community of Corozal on Roatan, which was created by RMP to benefit the fishers of this area and reduce fishing pressure in the nearby waters. There is knowledge of other programs and activities, such as certain wood crops and their products receiving a Rainforest Alliance certification; some palm oil plantations have been certified to export to Europe; as well as the establishment of vegetable gardens for fishers in Cuyamel-Omoa, but information was not received (HN1f.9).</p>			

**2014** - The RMP is carrying out a program called "Protect Our Pride" (HN1f.1) where fishers are taught to dive, in order to provide them with an alternative than fishing for their income. Part of the program also promotes the hunting of lionfish, where the lionfish hunted by certified divers/snorkelers is being sold/marketed by the RMP to locals and restaurants, as well as national grocery stores in San Pedro Sula and Tegucigalpa (HN1f.2). There is a program for economic alternatives for fishermen in Cuero y Salado (no reply was received from the request, HN1f.3). CEM has a program for economic alternatives for fishermen in Punta Gorda (no reply was received from the request, HN1f.4).

**2011** - This indicator had not been created when the 2011 Eco Audit was carried out.

**Source:**

	Document/File name	Date	Institution	Location
2014	HN1f.1 Protect Our Pride Program Flyer	01-Mar-13	Roatan Marine Park	Roatan Marine Park
	HN1f.2 RMP Lionfish Sales Email	Sep-13	Roatan Marine Park	Roatan Marine Park
	HN1f.3 Email Requesting Info Cuero y Salado	02-Sep-13	HRI	HRI
	HN1f.4 Email Requesting Info CEM	Oct-13	HRI	HRI
2016	HN1f.5 Imágenes Grupo Mujeres Artesanales Utila	Oct-15	BICA Utila	BICA Utila
	HN1f.6 Licencias Pesca Pez Leon RMP	Oct-15	Roatan Marine Park	Roatan Marine Park
	HN1f.7 Personería Jurídica Alternativas Economicas Corozal	Jan-15	Roatan Marine Park	Roatan Marine Park
	HN1f.8 Protect Our Pride Program.pdf	Aug-13	Roatan Marine Park	Roatan Marine Park
	HN1f.9 Solicitud Documentos	Dec-15	HRI	HRI
	HN1f.10 MPA 2015 Data Collection	Dec-15	HRI	HRI
2020	HN1f.11 Evaluación de oportunidades costa norte	2019	FAO	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1f.12 Poster comisión Snapper Utila	2020	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1f.13 Plan de trabajo comisión snapper	2020	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1f.14 Plan de trabajo comisión Guanajeña	2020	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1f.15 Diagnóstico de necesidades en las comunidades pesqueras de MARFUND	2007	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1f.16 Mail sobre proyecto de boyas al alcalde de Utila	2020	Coral Utila	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1f.17 Informe BICA con componente alternativas económicas	2020	BICA Utila	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1f.18 Alternativas económicas en Tela	2020	CORAL Tela	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1f.19 Proyectos Comunidades Cayos Cochinos	2019	Fundación Cayos Cochinos	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1f.20 Sistematización del proceso de participación comunitaria en el paisaje marino	2019	Fundación Cayos Cochinos	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1f.21 Proyectos de Desarrollo sostenible RMP	2020	RMP	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1f.22 PUP RVSLG	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1f.23 Proyecto MAREA	2020	RMP	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1f.24 Propuesta aprobada por el FAPVS para la Laguna de Guaimoreto	2019	ICF-Trujillo	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1f.25 Estudio de factibilidad y planes de negocio CCO	2020	CCO	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1f.26 Plan de Negocio Nombre de Dios	2009	FUPNAND	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1f.27 Plan de Manejo Versión Final RHBRP	2013	ICF-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1f.28 Club de Ahorro Guanaja Information Sheet	2020	BICA Roatán	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1f.29 Women Artisans Project in Roatan and Guanaja	2019	BICA Roatán	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN1f.30 EcoAudit-2020-HN-1f	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>

**Approval:**

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Healthy Reef Initiative  
Collection Sheet Eco-Audit 2020 - Honduras

## Indicator:

Name:	Harmonizing fisheries regulations among countries
Description:	Over the last few years a number of regional initiatives have attempted to harmonize fisheries regulations for economically important fisheries (e.g. lobster and conch). This indicator measures the extent of this progress, focusing on size limits and closed seasons, because differences in these two regulations across countries lead to substantial trans-boundary illegal and unreported fishing.
Theme:	Theme 2 – Ecosystem-based Fisheries Management

Status: Final

## Ranking Criteria:

5 – Regulations for closed seasons and size limits are fully harmonized among the four countries and two commercial fisheries
4 – Regulations for closed seasons and size limits are fully harmonized among three countries and two commercial fisheries
3 – Regulations for closed seasons and size limits are fully harmonized among three countries and one commercial fishery
2 – There has been some effort at harmonizing regulations (draft regulations, project planning or joint research)

## Responsible:

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## Grade:

Grade:	2020: 3-Fair	2016: 3-Fair	2014: 3-Fair	2011: 3-Fair
Result:	<p><b>2020</b> - Fully harmonization of lobster (<i>Panulirus argus</i>) fishery exists for Honduras, Guatemala, and Belize (HN2a.1 &amp; HN2a.38). There are some advances in regional harmonization, but these are not enough to increase the score.</p> <p><b>2016</b> - No documents were found that allow increasing score for this indicator.</p> <p><b>2014</b> - Harmonization of the regulations (closed season and size limits) for the lobster fishery (<i>Panulirus argus</i>) exists for Belize, Guatemala and Honduras. Article 11 (p.19, BZ2a.1; GU2a.1; HN2a.1; MX2a.1) - explains the following measurements for lobster as: minimum length (140 mm tail length from the first section of the abdomen to the rearmost section of the tail fan) and minimum weight (5 oz per unit and between 5.5-5 oz for tails-not frozen).</p> <p><b>2011</b> - Harmonization of the regulations (closed season and size limits) for the lobster fishery (<i>Panulirus argus</i>) exist for Belize, Guatemala and Honduras.</p>			

## Observations:

Observations:	<p><b>2020</b> - The lobster closing season is fully harmonized between four MAR countries (HN2a.38). Lobster tail minimal size (14 cm) is fully harmonized between Honduras, Guatemala, and Belize (HN2a.1). In Mexico, the lobster tail minimal size is a little bit smaller: 13.5 cm (HN2a.44). Queen Conch (<i>Strombus gigas</i>) closing season has some harmony between Guatemala, Belize, and Mexico as all three countries close from July to September in 2020 (HN2a.39, HN2a.40 &amp; HN2a.41), which is the reproductive period of this species. Honduras has a different closing season for Queen conch (HN2a.21). Conch minimal shell size varies in Honduras (HN2a.31), Belize (HN2a.42), and Mexico (HN2a.43). Guatemala does not have regulations for shell size. A summary table with this information is presented (HN2a.45).</p> <p><b>2016</b> - Plans for managing fisheries in Central American region exist, through OSPESCA, who have created an integration policy ((HN2a.9); a code of conduct and ethics (HN2a.12); a lobster management plan (HN2a.14); the proper use of TED's (HN2a.15 &amp; 20); protection for whale sharks (HN2a.16); laws to eliminate illegal fishing practices (HN2a.17), but none of these have become laws that harmonize fisheries in the 4 countries of the MAR. There are still local Honduran closed season laws that are homogenized for lobster, conch and shrimp, but these do not exactly coincide with date in the rest of the countries. Honduras has also created a permanent indefinite closed season for sea cucumber (HN2a.18 &amp; 19).</p> <p><b>2014</b> - The Regional Regulations for Caribbean Lobster Fishing OSP-02-09 made by OSPESCA (Organización del Sector Pesquero y Acuicultura de Centroamérica) (GU2a.1; HN2a.1; BZ2a.1; MX2a.1) serves as a starting ground and benchmark for the countries of the SICA (Sistema de la Integración Centroamericana) to harmonize commercial fisheries. This regional regulation then requires national regulations be passed to ensure country-state compliance. Mexico, Guatemala and Honduras have a closed season for lobster from March 1-June 30 (Belize will maintain its similar closed season from February 14-June 14). These dates were considered close enough to comply as being harmonized. See p. 10 for signatories (GU2a.1; HN2a.1; BZ2a.1; MX2a.1). OSPESCA established a working group in Central America to develop a working plan to regulate the <i>Strombus gigas</i> (Queen conch) fishery. The report "Mejoras de la situación y tendencias de la captura del caracol reina en la región del Caribe" (GU2a.2; MX2a.2; HN2a.2) represents the initial step towards harmonized regulations for the conch fishery. Another SICA OSPESCA document proposes harmonizing the fisheries regulations for lobster and conch in the entire Caribbean (GU2a.8; HN2a.6; MX2a.6; BZ2a.2). There is still work needed for the regulation of the conch fishery and for groupers and snappers in the MAR. More recent efforts also include recommendations from the CFMC/OSPESCA/WECAFC/CRFM Working group for the development and adoption of sub-regional regulations for "conservation and management of Queen Conch". This has been supported by a CITES decision that expects nation-states to complete activities including standardized instruments for reporting, species management plans, and development of a product processing conversion factor. The Regional Action Plan for Central America on sharks talks about supporting the creation of a Regional Centre for Research and Training on Marine Resources. On January of 2012 the Regional Regulation OSP 05-11 bans the practice of Shark Finning in the countries of the SICA taking effect simultaneously across Central America, which aims to establish regional management measures for the sustainable use of shark resources that contribute to the eradication of finning (GU2a.3; GU2a.4; HN2a.7; HN2a.8; MX2a.7; MX2a.8; BZ2a.3; BZ2a.4). In Mexico, the NOM 029 PESC 2006 (MX2a.5, p. 2, 7 and 10) bans the practices of finning in all species of sharks and commercial fishing is prohibited in refuge zones for sharks and rays as well as drifting nets. Sharks are protected in critical periods such as reproduction and birth prohibiting fishing in specific zones and having closed seasons. Caribbean Fisheries Management Council (CFMC). Organization for the Fisheries and Aquaculture Sector of the Central American Isthmus (OSPESCA).</p>
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**2011** - Article 4 (p. 14/HN2a.1)-There is a closed season for lobster from March 1-June 30 (Belize will maintain its similar closed season from February 14-June 14). Article 11 (p.19/HN2a.1)- Minimum length (140 mm tail length from the first section of the abdomen to the rearmost section of the tailfin) and minimum weight (5 oz per unit and between 5.5-5 oz for tails-not frozen). See p. 10 for signatories (HN2a.1). It was also noted during the Honduras Eco Audit national workshop (La Ceiba at the CREDIA Foundation, October 18, 2011-HN1d.10) that additional work is being done by USAID/MAREA/TNC/WWF to harmonize the regulations for grouper and conch. Additionally, the Central American Integration System (SICA) has been working to develop a regional policy (HN2a.3 and HN2a.4) for the 7 countries to harmonize fishing regulations across several commercial species. This still has not been achieved. To date, most work has been carried out by the "Alianza Trinacional para la Conservación del Golfo de Honduras" (TRIGO). They have created a working document (HN2a.2) that establishes harmonized fisheries regulations, of other species besides lobster (between the 7 countries that share the Gulf of Honduras: Belize, Guatemala and Honduras).

**Source:**

	Document/File name	Date	Institution	Location
2011	HN2a.1 Regulation OSP-02-09-Regional Regulation of Caribbean Lobster Fishing	May-09	Organization of Fishing and Aquaculture in Central America (OSPESCA)	Organization of Fishing and Aquaculture in Central America (OSPESCA)
	HN2a.2 Declaracion Conjunta II Foro Trinacional de Pesca	Oct-10	TRIGO	TRIGO
	HN2a.3 Política Integración Pesca y Acuicultura Istmo Centroamericano	Jul-05	Organization of Fishing and Aquaculture in Central America (OSPESCA)	Organization of Fishing and Aquaculture in Central America (OSPESCA)
	HN2a.4 Fisheries and Aquaculture Integration Policy Central America	Jul-05	Organization of Fishing and Aquaculture in Central America (OSPESCA)	Organization of Fishing and Aquaculture in Central America (OSPESCA)
2014	HN2a.5 Acuerdo de Veda 001-13	Jan-13	Secretaría de Agricultura y Ganadería	Secretaría de Agricultura y Ganadería
	HN2a.6 Propuesta de reglamentación armonizada de las pesquerías de la langosta y del caracol del Caribe	Nov-08	OSPESCA	OSPESCA
	HN2a.7 Plan de acción regional de tiburones para Centroamérica (PRATC)	Jun-10	OSPESCA	OSPESCA
	HN2a.8 Reglamento OSP 05-11 para prohibir la práctica del aleteo del tiburón en los países parte del SICA	Jan-12	OSPESCA	OSPESCA
2016	HN2a.9 Política Integración Pesca y Acuicultura 2015-2025	Jul-15	OSPESCA	OSPESCA
	HN2a.10 Acuerdo de Veda 2014-2015	Jan-14	Secretaría de Agricultura y Ganadería	Secretaría de Agricultura y Ganadería
	HN2a.11 Acuerdo de Veda 2015-2016	Jan-15	Secretaría de Agricultura y Ganadería	Secretaría de Agricultura y Ganadería
	HN2a.12 Código de Ética de Pesca	Jul-11	OSPESCA	OSPESCA
	HN2a.13 Informe campaña investigación pesquera	2011	OSPESCA	OSPESCA
	HN2a.14 Plan Manejo Pesca Langosta	Dec-12	OSPESCA	OSPESCA
	HN2a.15 Reglamento OSP-06-13 TEDs	Jun-13	OSPESCA	OSPESCA
	HN2a.16 Reglamento OSP-07-2014 Tiburón Ballena	Jul-14	OSPESCA	OSPESCA
	HN2a.17 Reglamento OSP-08-2014 Pesca ilegal	Aug-14	OSPESCA	OSPESCA
	HN2a.18 Acuerdo Pepino de Mar 2014	Jun-14	Secretaría de Agricultura y Ganadería	Secretaría de Agricultura y Ganadería
	HN2a.19 Acuerdo Pepino de Mar 2015	Jun-15	Secretaría de Agricultura y Ganadería	Secretaría de Agricultura y Ganadería
	HN2a.20 Metodología Regional Uso de TEDs	2015	OSPESCA	OSPESCA
2020	HN2a.21 Veda de pesca 2020	2020	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2a.22 Acuerdo redes suriperas 2015	2015	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2a.23 Acuerdo de veda 2016	2016	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2a.24 Acuerdo de veda 2017	2017	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2a.25 Acuerdo de veda 2018	2018	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2a.26 Acuerdo pepino de mar 2015	2015	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2a.27 Acuerdo proyecto caracol	2015	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2a.28 Acuerdo langosta 2019	2019	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2a.29 Adenda reglamento OSP-0310 del 2011	2011	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2a.30 Manual para inspectores de pesca 2011	2011	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2a.31 Plan de manejo <i>Strombus gigas</i> 2017	2017	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2a.32 Reglamento embarcaciones 2015	2015	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2a.33 Ley de pesca y acuicultura 2017	2017	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2a.34 Acuerdo medusa 2017	2017	CORAL-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2a.35 Acuerdo tiburones 2015	2015	CORAL-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2a.36 Acuerdo de veda 2019	2019	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2a.37 Queen conch fisheries management and	2015	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2a.38 OSPESCA Langosta	2019	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2a.39 Veda 2020 Guatemala	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2a.40 Conch closed season 2020 Belize	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2a.41 Veda caracol en México	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2a.42 Final Queen conch technical document Belize	2012	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2a.43 Regulaciones caracol México	2016	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2a.44 Regulaciones langosta México	2014	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2a.45 EcoAudit-2020-HN-2a	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>

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**Healthy Reef Initiative**  
**Collection Sheet Eco-Audit 2020 - Honduras**

**Indicator:**

		<b>Status:</b>	<b>Final</b>
<b>Name:</b>	Special regulations for grouper / spawning sites		
<b>Description:</b>	The reef food web is highly complex. The removal of just one group of fish from the food web can have widespread effects throughout the reef ecosystem, ultimately weakening and destabilizing it. Groupers' reproductive behavior makes them particularly vulnerable during spawning and many Spawning Aggregation Sites (SPAGS) have already been fished to extinction. This indicator measures progress in protecting these sites and species.		
<b>Theme:</b>	Theme 2 – Ecosystem-based Fisheries Management		

**Ranking Criteria:**

- 5 – At least 90% of known grouper SPAGS are fully protected (year-round in MPAs) with legal regulations and at least 50% of these have at least good enforcement  
 4 – At least 75% of known grouper SPAGS are fully protected (inside MPAs) and at least 20% have at least moderate enforcement  
 3 – There are closed seasons, size limits or catch limits specific for grouper  
 2 – There has been some effort at drafting regulations, research or a public campaign on the topic  
 1 – No documented action that meets the criteria to achieve a higher score is available

**Responsible:**

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**Grade:**

<b>Grade:</b>	2020: 4-Good	2016: 3-Fair	2014: 3-Fair	2011: 2-Poor
<b>Result:</b>	<p><b>2020</b> - 100% of verified grouper SPAGS or FSA are fully protected during the reproduction season (but not all year long), and are inside 75 % well-enforced MPAs.</p> <p><b>2016</b> - There are no documents that allow increasing the score for this indicator.</p> <p><b>2014</b> - There now exists a closed season for Nassau grouper for the whole country (HN2b9, Pg. 5, Article 11), from Dec 1 to Mar 30 that is in harmony with BLZ, GUA and MEX. 4 SPAGS in Cayos Cochinos have full protection (HN2b.3). Cordelia Banks, with 1 SPAG, has been designated as a Site of Wildlife Importance (HN2b.10).</p> <p><b>2011</b> - There has been some effort at drafting regulations and research of grouper SPAGS; currently 12 sites have been identified.</p>			

**Observations:**

<b>Observations:</b>	<p><b>2020</b> - There has been an effort to monitor and verify SPAGS (HN2b.25), coined newly FSA (Fish Spawning Aggregations). The results of verification were presented in the HRI Report Card 2020 (HN2b.21), and additional information was obtained from MNMACC (HN2b.22), Banco Cordelia (HN2b.10), and PNMIB (HN2b.24) management plans. A summary table with this information is presented (HN2b.28).</p> <p><b>2016</b> - The fishing regulations published by DIGEPESCA every year continue establishing a closed season for grouper (HN2b.11 &amp; 12). The Ordenanza de creación del Sistema Arrecifal Coralino Bahía de Tela (HN2b.13), as well as the Acuerdo de Creación del Refugio de Vida Silvestre Marino Bahía de Tela (HN2b.14), both mention that fishing for groupers is not permitted.</p> <p><b>2014</b> - There is a closed season for Nassau grouper since February 2013, which establishes a closed season from December 1 to March 30, which is in harmony with BLZ, GUA and MEZ (HN2b.9 Article 11, Page 5).</p>
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**2011** - There are currently 19 SPAG sites in Honduras that have been identified and 12 of these are grouper SPAGS (HN2b.3 has the full list from TNC, also HN2b.5, HN2b.6, and HN2b.7). Protection has been limited and evidence suggests that grouper continue to be overfished (HN2b.8 p. 14). Acuerdo 002-2011 (Article 11/p.3/HN2b.1) identifies a closed season for Nassau Grouper in Caldera del Diablo on the island of Guanaja from December 1 to March 30. There has been some work by TNC and the Fisheries Department to draft legislation to create a permanent closed season for grouper (HN2b.2). Participants also noted during the Honduras Eco Audit national workshop (La Ceiba at the CREDIA Foundation, October 18, 2011-HN1d.10) that TNC is also currently working on a management plan for grouper SPAGS. A new draft of Fisheries Law, which includes ecosystem-based management, will also take into account SPAGS (HN2b.4 p.37). The Nature Conservancy provided GIS layers that show the SPAGS for the Mesoamerican Reef and a separate file for the GIS SPAGS layers for Roatan, Bay Islands.

**Source:**

	Document/File name	Date	Institution	Location
2011	HN2b.1 Veda de Mero-Caldera del Diablo-(Acuerdo 002-2011)	Jan-11	Secretaria de Agricultura y Ganaderia	Secretaria de Agricultura y Ganaderia
	HN2b.2 Borrador-Acuerdo Ministerial Mero Nassau	NA	Secretaria de Agricultura y Ganaderia	Secretaria de Agricultura y Ganaderia
	HN2b.3 Listado de SPAGS de Mero	NA	TNC	TNC
	HN2b.4 Anteproyecto Ley de Pesca y Acuicultura	Aug-11	WWF	WWF
	HN2b.5 SPAGS Map	Apr-08	TNC	TNC
	HN2b.6 MAR SPAGS GIS Layers	Sep-06	TNC	TNC
	HN2b.7 Roatan SPAGS GIS Layers	Oct-09	TNC	TNC
	HN2b.8 Situación actual del mero de Nassau <i>Epinephelus striatus</i> , en el Arrecife Mesoamericano	Feb-09	TNC	TNC
2014	HN2b.9 Acuerdo de Veda 001-13	Ene-13	Secretaria de Agricultura y Ganaderia	Secretaria de Agricultura y Ganaderia
	HN2b.10 Plan de Manejo Banco Cordelia	Ene-13	Instituto Nacional de Conservacion y Desarrollo Forestal y Vida Silvestre	Instituto Nacional de Conservacion y Desarrollo Forestal y Vida Silvestre
2016	HN2a.11 Acuerdo de Veda 2014-2015	Jan-14	Secretaria de Agricultura y Ganaderia	Secretaria de Agricultura y Ganaderia
	HN2a.12 Acuerdo de Veda 2015-2016	Jan-15	Secretaria de Agricultura y Ganaderia	Secretaria de Agricultura y Ganaderia
	HN2b.13 Ordenanza Municipal SACT	Jan-15	Municipalidad de Tela	Municipalidad de Tela
	HN2b.14 Acuerdo 007-2015 Bahia de Tela	2015	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
2020	HN2b.15 Acuerdo de Veda 2016	2016	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2b.16 Acuerdo de Veda 2017	2017	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2b.17 Acuerdo de Veda 2018	2018	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2b.18 Acuerdo de Veda 2019	2019	CORAL-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2b.19 Acuerdo de Veda 2020	2020	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2b.20 Sitios de agregaciones de peces en el SAM	2003	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2b.21 Report Card 2020	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2b.22 Plan de Manejo MNMCC 2014-2025	2014	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2b.23 Plan de Manejo Banco Cordelia	2013	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2b.24 Plan de Manejo Islas de la Bahia	2013	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2b.25 MARFish_FSA Monitoring	2019	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2b.26 SPAGS Roatan 2009 Drysdale	2009	BICA-Roatán	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2b.27 SPAGs Cayos Cochinos	2009	Fundación Cayos Cochinos	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2b.28 EcoAudit-2020-HN-2b	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>

**Approval:**

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# Healthy Reef Initiative Collection Sheet Eco-Audit 2020 - Honduras

## Indicator:

Name:	Protection of key grazers (parrotfish)	Status:	Final
Description:	As the number of large predatory species decline due to overfishing, fishers often target smaller herbivorous fish. The removal of herbivorous fish results in increased algal overgrowth and ultimately decreased resilience of the reef ecosystem. This indicator measures the extent of protection for		
Theme:	Theme 2 – Ecosystem-based Fisheries Management		

## Ranking Criteria:

- 5 – Parrotfish are fully protected through regulations with at least good enforcement at a full national level within the 200 meter bathymetric line.  
 4 – Parrotfish are fully protected through regulations with at least moderate enforcement or protection within at least 50% of your continental shelf (within the 200 mts bathymetric line).  
 3 – There exist draft regulations or a public campaign on the topic or protection within at least 25% of your continental shelf (within the 200 mts bathymetric line).  
 2 – There has been some effort (strategic plans or consultation reports) at drafting regulations and/or educational outreach (development of educational brochures or pamphlets)  
 1 – No documented action that meets the criteria to achieve a higher score is available

## Responsible:

Organization:	Independent consultant
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## Grade:

Grade:	2020: 2-Poor	2016: 3-Fair	2014: 3-Fair	2011: 2-Poor
Result:	<p><b>2020</b> - Parrotfish are still not protected at a national level in Honduras, and their protection encompasses just 6.5% of the MAR Honduras continental shelf. Yet many MPAs have regulations: RVSBSCS, PNMIK, PNMI, PNPI, MNMACC, PNMI, RVSC, and RVSMBT. Enforcement varies from good to inadequate depending on the MPA.</p> <p><b>2016</b> - There has been no law that protects parrotfish published yet, but HRI is working alongside DIBIO to include these in the new biodiversity law currently being drafted.</p> <p><b>2014</b> - According to the Bay Islands National Marine Park Rules, there are specific regulations that protect parrot fish within this MPA (HN2c.9, Pg. 45, Article 11, Point 11, Pg. 46, Pg. 52, Pg. 53). Unfortunately, this is not enforced on Utila and Guanaja as it is on Roatan. The Management for the Cordelia Banks Site of Wildlife Importance (HN2c.6) has been legally approved (HN2c.5, Pg. 2, second to last paragraph), which contains a no-take zone and clearly specifies the prohibition to take surgeon and parrotfish within this MPA. The Draft Regulations that apply to the Protected Areas of the Bay Islands (HN2c.8, Pg. 8, Art 11) state that fishing herbivores is prohibited, as well as prohibiting all kinds of fishing in certain areas.</p> <p><b>2011</b> - There has been some effort to draft regulations which could protect parrotfish. However, there has been no regulatory effort specifically aimed at parrotfish conservation. There has also been some public education on this topic.</p>			

## Observations:

Observations:	<p><b>2020</b> - In the PNMI, parrotfish regulations are being enforced, particularly in Roatan and Utila (HN2c.15). There are new NTZ/RZ that protect herbivorous fish in RVSBSCS, RVSMBT, and Pamuch (in RVSC). An estimation of 1277.3 km<sup>2</sup> (6.5%) of the MAR Honduras continental shelf, which corresponds to 19629.1 km<sup>2</sup> (HN1a.31), forbids fishing herbivorous fish. A summary table with this information is presented (HN2c.23).</p> <p><b>2016</b> - There has been no law that protects parrotfish published yet, but HRI is working alongside DIBIO (HN2c.10 &amp; 11) to include these in the new biodiversity law currently being drafted (HN2c.12). CORAL's Sustainable Seafood Guide includes herbivorous fish species in their "Do Not Eat" section (HN2c.9). The Acuerdo de Creación del Refugio de Vida Silvestre Marino Bahía de Tela, prohibits the fishing of any herbivorous species (HN2c.13).</p> <p><b>2014</b> - The Management for the Cordelia Banks Site of Wildlife Importance has been legally approved, which contains a no-take zone and clearly specifies the prohibition to take surgeon and parrotfish within this MPA (HN2c.6 (Pgs 53 &amp; 54)). The Draft Regulations that apply to the Protected Areas of the Bay Islands (HN2c.8) state that fishing herbivores is prohibited (Article 11, Pg 8) and all kinds of fishing in certain areas (Art. 17, Pg 9).</p> <p><b>2011</b> - Participants during the Honduras Eco Audit national workshop (La Ceiba at the CREDIA Foundation, October 18, 2011-HN1d.1) noted that parrotfish are mostly used for subsistence and are not an important commercial species. Although little political action has been taken to protect parrotfish, there has been effort to raise awareness about the ecological importance of herbivorous species and the threats they face (HN2c.1 (Pgs 7 and 10) &amp; HN2c.2 (both pages)). Roatan Marine Park is currently protecting reef fish, including parrotfish, based on Article 31 of the Acuerdo Ejecutivo 002-2004 (P. 8/HN2c.4), which prohibits the landing of reef fish unless officially authorized. Additionally, it was noted that the protection of parrotfish (and other species under endangered criteria) could fall under the Regulations of the new Fisheries Law, which is currently being drafted (HN2c.3 (Art. 55, Pg. 26)).</p>
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Source:				
	Document/File name	Date	Institution	Location
2011	HN2c.1 The Bay Islands Responsible Seafood Guide: A Guide for Restaurants and Retailers	2011	Utila Centre for Marine Ecology, Roatan Marine Park, The Coral Reef Alliance and The Spiny Lobster Initiative	Coral Reef Alliance
	HN2c.2 The Bay Islands Responsible Seafood Guide Sticker	2011	Utila Centre for Marine Ecology, Roatan Marine Park, The Coral Reef Alliance and The Spiny Lobster Initiative	Coral Reef Alliance
	HN2c.3 Anteproyecto Ley de Pesca y Acuicultura	Aug-11	WWF	WWF
	HN2c.4 Acuerdo Ejecutivo 002-2004- Normas Generales para el Control de Desarrollo de las Islas de la Bahia	Jan-05	Secretaria de Recursos Naturales y Ambiente	Secretaria de Recursos Naturales y Ambiente
2014	HN2c.5 Acuerdo Plan Manejo Cordelia 018A2013	Sep-13	Departamento de Áreas Protegidas y Vida Silvestre de la Administración	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal
	HN2c.6 Plan de Manejo Banco Cordelia Final Aprobado	Sep-13	Departamento de Áreas Protegidas y Vida Silvestre de la Administración	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal
	HN2c.7 Capas SIG Banco Cordelia	Sep-13	Departamento de Áreas Protegidas y Vida Silvestre de la Administración	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal
	HN2c.8 Anteproyecto Reglamento APs Islas de la Bahia	Feb-12	IHT	IHT
	HN2c.9 RSG presentation ENG Utila 2013	2013	The Coral Reef Alliance (CORAL)	The Coral Reef Alliance (CORAL)
	HN2c.10 Plan de Manejo Islas de la Bahia	Jan-12	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado
2016	HN2c.11 Correos para Incluir Peces Loro en Leyes	Aug 15	HRI	HRI
	HN2c.12 Importancia de proteger los peces loro	Aug 15	HRI	HRI
	HN2c.13 Ley sobre la Diversidad Marino Costera e Islas Rev Jan D	Aug 15	HRI	HRI
	HN2c.14 Acuerdo 007-2015 Bahia de Tela	Mar 15	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado	Departamento de Áreas Protegidas y Vida Silvestre de la Administración Forestal del Estado
2020	HN2c.15 Plan de arbitrios de Utila.	2020	BICA-Utila	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2c.16 Plan de Manejo Pesquero de la Bahía de Tela	2018	CORAL-Tela	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2c.17 Ordenanza Municipal sobre PMP y ZR	2019	CORAL-Tela	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2c.18 Revision Limites APMs de Honduras	2015	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2c.19 Plan de Manejo MNMCC 2014-2025	2014	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2c.20 Subconvenio ICF, FUCSA, APROCUS Y LA SAG	2010	FUCSA	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2c.21 Acuerdo Presidencial 3056-91-Islands del Cisne	1991	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2c.22 Area de Restauracion Pesquera PAMUCH	2014	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2c.23 EcoAudit-2020-HN-2c	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
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# Healthy Reef Initiative Collection Sheet Eco-Audit 2020 - Honduras

## Indicator:

		Status:	Final
Name:	2d. Transform all open-access fisheries to rights-based sustainable fisheries management systems		
Description:	Justification-Throughout the MAR region, fisheries management has not achieved sustainability, in large part due to reliance on open access and traditional management approaches and the inability to control illegal fishing, especially in remote areas. The lack of a clear allocation of fishing rights is a major factor contributing to overfishing, and tends to encourage unsustainable fishing practices such as the race-to-fish and illegal fishing. Open access also fuels conflict for fishing areas. Transforming fisheries management to a rights-based approach in the MAR region will promote better management of the fisheries stocks by fostering stewardship by fishers of designated fishing areas, facilitating the regulation of fishing through sustainable catch limits, and promoting community-based management of fisheries in the area.		
Theme:	Theme 2 – Ecosystem-based Fisheries Management		

## Ranking Criteria:

- 5- More than 90% of total catch\* is under a form of regulated rights-based fisheries management (RBM) covering at least three of the most economically valuable species/taxonomic groups
- 4- 26-50% of total catch is under a form of regulated rights-based fisheries management, covering at least two of the most valuable species/taxonomic groups
- 3- At least two fisheries and/or 25% of fishing communities is under a form of regulated rights-based fisheries management, covering at least one of the most valuable species/taxonomic groups
- 2- At least one fishery and/or one community is implementing regulated rights-based fisheries management
- 1- No documented action that meets the criteria to achieve a higher score is available

## Responsible:

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## Grade:

Grade:	2020: 4-Good	2016: 3-Fair	2014: 2-Poor	2011: NA
Result:	<p><b>2020</b> - In the total area of MNMACC, RVSBSCS, and RVSLG right based fisheries are practiced. In PNJK, RVSC, and PNMIB right based fisheries are practiced in some specific areas. For PNPI, RVSMBT, and RHBRP the right based fisheries are strongly recommended. These fisheries cover two of the most valuable fisheries (lobster and finfish).</p> <p><b>2016</b> - Cayos Cochinos, PAMUCH, Cuero y Salado and Banco Cordelia have regulations similar to rights-based fisheries. Three of the four cases/sites/areas mentioned here define lobster and conch as two targeted fisheries that are managed similar to rights-based access, allowing for an increase in the soccer to "3".</p> <p><b>2014</b> - Cayos Cochinos &amp; Cuero y Salado are now implementing some form of rights-based fisheries.</p> <p><b>2011</b> - This indicator had not been created when the 2011 Eco Audit was carried out.</p>			

## Observations:

Observations:	<p><b>2020</b> - The MPAs integrate the more important fishing communities in the Honduras MAR, mostly fishing finfish (groupers, snappers, and bar jacks) and lobster. 30% of these MPAs have right based fisheries in the total area (RVSBSCS, MNMACC &amp; RVSLG). 30% of the MPAs have some areas with right based fisheries (Laguna de Los Micos, most of the RVSC marine area, and Cordelia Bank) 20% of these MPAs will likely implement this kind of fisheries shortly (PNPI, RVSMBT). PNMIC is a NTZ so this fishery do not apply. A summary table with this information is presented (HN2d.19).</p> <p><b>2016</b> - It is hard to define the percent of fishing communities under a form of regulated rights-based fisheries, but for this indicator are listed the areas that have some form of regulated fisheries. Three of the four cases/sites/areas mentioned here define lobster and conch as two targeted fisheries that are managed similar to rights-based access, allowing for an increase in the soccer to "3". The Cayos Cochinos management plan (HN2d.4) and their fisheries restoration project (HN2d.5) create areas that are restricted to only one type of fishery, such as free-diving for lobster and conch in areas known as Salamandanga, Voitage, Tariagaru and Bajo Malaca, which are already restricted to only members of the surrounding fishing communities of Corozal, Sambo Creek, Nueva Armenia, Lis Lis, Cacao, Balfate, Rio Esteban, Chachahuat, East End and Bolaños. The new limits defined for Cuero y Salado (HN2d.7) establish an area of 3,871.97 has that will be used exclusively for rights based access fisheries for the communities of Salado Barra, Boca Cerrada, La Rosita and Orotina but do not mentions which fisheries are targeted. The fisheries restoration area "PAMUCH" (HN2d.6, 8 &amp; 10) lists, in its creation objectives: 1. access rights based fishing for the surrounding communities that act as co-managers of the area; protection of larval and nursery sites; creation of natural and artificial areas that will allow increasing fish populations, and these will benefit the communities of Laguna de Chachaguala, Costa Paraíso and La Bocana and targets species such as lobster, conch, target fish (Snappers and groupers) and will include, within its protection boundaries, SPAGS. The norms included in Banco Cordelia management plan (HN2d.9) allow rights-based fisheries for 60 fishermen from four communities: Flower's Bay, Coxen Hole, Brick Bay and Los Fuertes, and the target species are snappers, groupers, lobster and conch.</p>
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**2014** - An agreement of co-management has been signed between the fishers of La Rosita, Cuero y Salado (APROCUS), of the communities of Salado Barra, Boca Cerrada and La Rosita, with FUCSA, ICF and SAG (DIGEPESCA), with the aim of promoting and fostering the rational use of fisheries resources (HN2d.1, Point 10, Pg. 7; Point 11, Pg. 8; Point 12, Pg. 9), on which these coastal communities depend (HN2d.2, Paragraph 2, Pg. 17, Point 1, Pg. 37; Points 1 & 2, Pg. 38)). These areas are within the Cuero y Salado Wildlife Refuge. The Cayos Cochinos National Marine Monument has, within its management plan (HN2d.3, Pg. 74), a statement where only the people of the local, coastal populations within the buffer zone, can carry out fishing within the MPA.

**2011** - This indicator had not been created when the 2011 Eco Audit was carried out.

**Source:**

	Document/File name	Date	Institution	Location
2014	HN2d.1 CoManejo Pesquero Cuero y Salado	Sep-10	Fundacion Cuero y Salado	Fundacion Cuero y Salado
	HN2d.2 Plan de Manejo Cuero y Salado 2010-2014	Feb-10	Fundacion Cuero y Salado	Fundacion Cuero y Salado
	HN2d.3 Plan de Manejo Cayos Cochinos 2008-2012	Nov-08	Cayos Cochinos	Cayos Cochinos
2016	HN2d.4 Plan de Manejo MNMCC 2014-2025	Apr 14	Honduras Coral Reef Fund	Honduras Coral Reef Fund
	HN2d.5 Proyecto Manejo Zonas de Restauracion Pesquera Cayos Cochinos	2015	Honduras Coral Reef Fund	Honduras Coral Reef Fund
	HN2d.6 Area de Restauracion Pesquera PAMUCH	Jan-14	CCO, MARFund, Digepesca, ICF, FENAPESCAH	CCO, MARFund, Digepesca, ICF, FENAPESCAH
	HN2d.7 Nuevos Limites RVSCS	Nov 12	Instituto Nacional de Conservacion y Desarrollo Forestal, Areas Protegidas y Vida Silvestre	Instituto Nacional de Conservacion y Desarrollo Forestal, Areas Protegidas y Vida Silvestre
	HN2d.8 Normativa Area PAMUCH CCO	2014	CCO	CCO
	HN2d.9 Plan de Manejo Banco Cordelia	2013	Instituto Nacional de Conservacion y Desarrollo Forestal, Areas Protegidas y Vida Silvestre	Instituto Nacional de Conservacion y Desarrollo Forestal, Areas Protegidas y Vida Silvestre
	HN2d.10 Acuerdo-026-2015_PAMUCH0001	Oct 15	Instituto Nacional de Conservacion y Desarrollo Forestal, Areas Protegidas y Vida Silvestre	Instituto Nacional de Conservacion y Desarrollo Forestal, Areas Protegidas y Vida Silvestre
2020	HN2d.11 Acuerdo ministerial Laguna de los Micos	2017	CORAL-Tela	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2d.12 Informativo Acuerdo ministerial Laguna de los Micos-parte 1	2019	CORAL-Tela	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2d.13 Informativo Acuerdo ministerial Laguna de los Micos-parte 2	2019	CORAL-Tela	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2d.14 Acuerdo Laguna de Guaimoreto	2018	CORAL-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2d.15 Plan de Manejo Pesquero de la Bahía de Tela.	2018	CORAL-Tela	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2d.16 Plan de Manejo PNND 2012	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2d.17 Portada PMPA BACALAR	2020	GOAL	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2d.18 Portada PMPA BRUS LAGUNA	2020	GOAL	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN2d.19 EcoAudit-2020-HN-2d	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>

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**Healthy Reef Initiative**  
**Collection Sheet Eco-Audit 2020- Honduras**
**Indicator:**

<b>Name:</b>	Coastal zone planning regulations	<b>Status:</b>	Final
<b>Description:</b>	Effective, integrated coastal planning emphasizing sustainable development, alongside enforcement of coastal development regulations, can greatly reduce the pressures of coastal development. Development and implementation of comprehensive coastal zone management plans can guide sustainable development. This indicator measures the extent and implementation of such plans or steps towards developing such plans.		
<b>Theme:</b>	Theme 3 – Coastal Zone Management		

**Ranking Criteria:**

5 – A spatially comprehensive coastal zone plan or zoning regulations exist for the country (or state within the MAR area) and have legally been adopted
4 – There is a coastal zone plan or zoning regulations (not spatially comprehensive) and they have been legally adopted in some areas
3 – A spatially comprehensive coastal zone plan or zoning regulations have been completed (drafted) for the country (or MAR area) and submitted for approval
2 – There is work (drafts in progress, consultation reports, research or strategic plans) at drafting a spatially comprehensive coastal zone plans or zoning regulations

**Responsible:**

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**Grade:**

<b>Grade:</b>	2020: 4-Fair	2016: 4-Good	2014: 4-Good	2011: 4-Good
<b>Result:</b>	<p><b>2020</b> - Honduras does not have a comprehensive coastal zone plan, but since 2012, a coastal and marine policy for Integrated Coastal Management-ICM is been developed, and there is a national strategy with guidelines and regulations for MCI. Efforts were made, to develop coastal zone planning, and document exists for all the North Coast municipalities and the Bay Islands. Yet their application is weak.</p> <p><b>2016</b> - A land use management plan has been created for the 3 Bay Islands and there are plans to develop one for Tela and La Ceiba.</p> <p><b>2014</b> - Land use restrictions exist for the 3 Bay Islands and there is proposal for the creation of land use management plans for the Valle de Lean.</p> <p><b>2011</b> - There exists a coastal zone plan and zoning regulations, but these are not adequately enforced.</p>			

**Observations:**

<b>Observations:</b>	<p><b>2020</b> - Since 2012, a coastal and marine policy for Integrated Coastal Management-ICM is been developed (HN3a.43), and there is a national strategy with guidelines and regulations for MCI (HN3a.44). An integrated territorial plan exists for the Bay Islands (HN3a.42) that was made in 2014, but it is still not legally accepted. For Utila, there is an older territorial plan (HN3a.37-HN3a.41) that is not legally approved, but it is used as a reference. The North Coast main settlements have territorial plans mostly done between 2011 and 2012, as well as new plans for La Ceiba (HN3a.46) and Tela (HN3a.47). Yet the legal enforcement of these territorial plans is generally poor. A summary table with this information is presented (HN3a.51).</p> <p><b>2016</b> - A land use management plan has been created for the 3 Bay Islands (HN3a.25-28); a specific one for the island of Utila (HN3a.29 &amp; 30) and there is work being done to create some for Tela and La Ceiba (HN3a.34 &amp; 35). A national policy for the protection of wetlands has been created (HN3a.31) and there are RAMSAR Maps for Utila (HN3a.32 &amp; 33). Law compendiums that relate to marine and coastal areas have been created (HN3a.23 &amp; 24).</p> <p><b>2014</b> - Cuyamel-Omoa y Puerto Cortes do have a municipal development plan, which focuses on land use planning (<a href="http://www.renot.hn">http://www.renot.hn</a>). There also exists a Regional Development Plan for Region 4 (Valle de Lean) with a focus on land use planning, which has been approved by the Regional Development Council (HN3a.18, Pgs. 188-190). The Regional Development Plan for Region 1 (Valle de Sula), as well as the Trujillo Area, are underway. HN3a.20, Pg. 4, shows the Objectives to follow for the creation of land-use planning at a Regional level. HN3a.21, Pg. 16, shows the Objectives to follow for the creation of land-use planning at a Municipal level.</p> <p><b>2011</b> - There exists a coastal zone plan (territorial ordinances) for Bay Islands (HN3a.17; Roatan: Pgs. 61-114; Guanaja: Pgs. 115-140; Utila: Pgs. 141-172), and it has been legally adopted (HN3a.16, Chapter 3, Pgs. 3 &amp; 4; Chapter 4, Pgs. 5 &amp; 6). Participants noted during the Honduras Eco Audit national workshop (La Ceiba at the CREDIA Foundation, October 18, 2011-HN1d.1) that USAID developed a territorial ordinance plan for the Gulf of Honduras watershed HN3a.12: Box 12, Pg. 89; Box 13, Pg. 90), which also includes an action plan for implementation of several plans (HN3a.12: Incentives: Pg. 121; Box 1, Pg. 129; Strategic Alliances in the 3 Countries: Pg. 132; Risk Management: Pg. 143; Waste Management: Pg. 153; Best Practices in the Agriculture Sector: Pg. 164). The Institute of Tourism has developed zoning plans for all beaches along the North Coast (HN3a.13). There is also a plan under UNEP to develop and implement a zoning project for mangroves in Honduras, Guatemala and Nicaragua (HN3a.14: Point 2, Pg. 1; &amp; HN3a.15: Theme 3, Pg. 9). Additionally, there exists a legal mandate (HN3a.1 &amp; HN3a.2) to promote the planning of Honduras' territorial ordinances. A number of diagnostics have been implemented for different regions in Honduras, including HN3a.3, HN3a.4, HN3a.5, HN3a.6,</p>
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**Source:**

Document/File name	Date	Institution	Location
HN3a.1-Ley de Ordenamiento Territorial (Decreto No 180-2003)	Nov-03	Congreso Nacional de Honduras	Congreso Nacional de Honduras
HN3a.2-Ley de Ordenamiento Territorial (Decreto No 180-2003)-Resumen	Nov-03	Congreso Nacional de Honduras	Congreso Nacional de Honduras
HN3a.3-Planes de Desarrollo y Ordenamiento Terretorial Region IV Valle de Lean: Diagnostico Integral Multidimensional Municipal Arizona	Apr-11	Secretaria de Recursos Naturales y Ambiente	Secretaria de Recursos Naturales y Ambiente
HN3a.4-Planes de Desarrollo y Ordenamiento Terretorial Region IV Valle de Lean: Diagnostico Integral Multidimensional Municipal Balfate	Apr-11	Secretaria de Recursos Naturales y Ambiente	Secretaria de Recursos Naturales y Ambiente
HN3a.5-Planes de Desarrollo y Ordenamiento Terretorial Region IV Valle de Lean: Diagnostico Integral Multidimensional Municipal Porvenir	Apr-11	Secretaria de Recursos Naturales y Ambiente	Secretaria de Recursos Naturales y Ambiente
HN3a.6-Planes de Desarrollo y Ordenamiento Terretorial Region IV Valle de Lean: Diagnostico Integral Multidimensional Municipal Esparta	Apr-11	Secretaria de Recursos Naturales y Ambiente	Secretaria de Recursos Naturales y Ambiente
HN3a.7-Planes de Desarrollo y Ordenamiento Terretorial Region Valle de Lean: Diagnostico Integral Multidimensional Municipal Jutiapa	Apr-11	Secretaria de Recursos Naturales y Ambiente	Secretaria de Recursos Naturales y Ambiente

2011	HN3a.8-Planes de Desarrollo y Ordenamiento Terretorial Region IV Valle de Lean: Diagnostico Integral Multidimensional Municipal La Masica	Apr-11	Secretaria de Recursos Naturales y Ambiente	Secretaria de Recursos Naturales y Ambiente
	HN3a.9-Planes de Desarrollo y Ordenamiento Terretorial Region IV Valle de Lean: Diagnostico Integral Multidimensional Municipal San Francisco	Apr-11	Secretaria de Recursos Naturales y Ambiente	Secretaria de Recursos Naturales y Ambiente
	HN3a.10-Planes de Desarrollo y Ordenamiento Terretorial Region IV Valle de Lean: Diagnostico Integral Multidimensional Municipal Tela	Apr-11	Secretaria de Recursos Naturales y Ambiente	Secretaria de Recursos Naturales y Ambiente
	HN3a.11-Planes de Desarrollo y Ordenamiento Terretorial Region IV Valle de Lean: Diagnostico Integral Multidimensional Municipal La Ceiba	Apr-11	Secretaria de Recursos Naturales y Ambiente	Secretaria de Recursos Naturales y Ambiente
	HN3a.12-Programa de USAID para la Conservacion de Cuencas Centroamericanas: Plan de Ordenamiento Territorial Cuenca de Golfo de	Apr-09	USAID	USAID
	HN3a.13-Desarrollo de un Plan Regional de Uso Publico y Mejora Ambiental de las Playas de la Costa Norte, Documento C: zonificacion de las Playas	Dec-09	Instituto Hondureño de Turismo	Instituto Hondureño de Turismo
	HN3a.14-Descripcion General del Proyecto Honduras	May-11	Secretaria de Recursos Naturales y Ambiente	Secretaria de Recursos Naturales y Ambiente
2014	HN3a.15-Informe Reunion Comite Ordenamiento Manglares	May-11	Secretaria de Recursos Naturales y Ambiente	Secretaria de Recursos Naturales y Ambiente
	HN3a.16-Acuerdo Ejecutivo 002-2004- Normas Generales para el Control de Desarrollo de las Islas de	Jan-05	Secretaria de Recursos Naturales y Ambiente	Secretaria de Recursos Naturales y Ambiente
	HN3a.17-Proyecto Manejo Ambiental de las Islas de	May-02	Secretaria de Turismo	Secretaria de Turismo
	HN3a.18-Propuesta Desarrollo Regional Valle Lean	Abr-2011	Secretaria de Recursos Naturales y Ambiente	Secretaria de Recursos Naturales y Ambiente
	HN3a.19-Informacion Microcuencas ICF Junio 2012	Jun-12	Instituto Nacional de Conservacion y Desarrollo Forestal, Areas Protegidas y Vida Silvestre	Instituto Nacional de Conservacion y Desarrollo Forestal, Areas Protegidas y Vida Silvestre
2016	HN3a.20-Lineamientos Generales para Planes de Desarrollo Regional	Ene-2013	Secretaria Tecnica de Planificacion y Cooperacion Externa	Secretaria Tecnica de Planificacion y Cooperacion Externa
	HN3a.21-Lineamientos Generales para Planes de Desarrollo Municipal	Ago-2012	Secretaria Tecnica de Planificacion y Cooperacion Externa	Secretaria Tecnica de Planificacion y Cooperacion Externa
	HN3a.22-Registro de Normativas de Ordenamiento Territorial (RENOT)	NA	Secretaria Tecnica de Planificacion y Cooperacion Externa	Secretaria Tecnica de Planificacion y Cooperacion Externa
2016	HN3a.23 Compendio Legislación Marino Costera	Aug-12	USAID	USAID
	HN3a.24 Compendio de Leyes Islas de la Bahia	Dec-11	Coral Reef Alliance	Coral Reef Alliance
	HN3a.25 Plan Ordenamiento Territorial Islas de la Bahia Vol I	Nov-14	ZOLITUR	ZOLITUR
	HN3a.26 Plan Ordenamiento Territorial Islas de la Bahia Vol II	Nov-14	ZOLITUR	ZOLITUR
	HN3a.27 Plan Ordenamiento Territorial Islas de la Bahia Vol III	Nov-14	ZOLITUR	ZOLITUR
	HN3a.28 Plan Ordenamiento Territorial Islas de la Bahia Vol IV	Nov-14	ZOLITUR	ZOLITUR
	HN3a.29 Plan Ordenamiento Territorial Utila	Aug-12	BID / IHT	BID / IHT
	HN3a.30 Utila Land Use Mgmt Plan	Aug-12	BID / IHT	BID / IHT
	HN3a.31 Politica Nacional de Humedales	2012	USAID	USAID
	HN3a.32 Mapa Ramsar Utila	May-12	BICA	BICA
	HN3a.33 Shapes Ramsar Utila	May-12	BICA	BICA
	HN3a.34 KMZ Tela	May-15	Municipalidad de Tela	Municipalidad de Tela
	HN3a.35 AutoCAD La Ceiba	Mar-15	Municipalidad de La Ceiba	Municipalidad de La Ceiba
	HN3a.36 PDEM Omoa y Puerto Cortés	2005	CCO	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
2020	HN3a.37 Informe Final del Plan de Desarrollo Municipal de Utila con Enfoque de Ordenamiento Producto 1	2012	CORAL Utila	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3a.38 Informe Final del Plan de Desarrollo Municipal de Utila con Enfoque de Ordenamiento Producto 2	2012	CORAL Utila	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3a.39 Informe Final del Plan de Desarrollo Municipal de Utila con Enfoque de Ordenamiento Producto 3	2012	CORAL Utila	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3a.40 Informe Final del Plan de Desarrollo Municipal de Utila con Enfoque de Ordenamiento Producto 5	2012	CORAL Utila	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3a.41 Informe Final del Plan de Desarrollo Municipal de Utila con Enfoque de Ordenamiento Producto 6	2012	CORAL Utila	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3a.42 Informe Final del Plan de Ordenamiento Territorial de las IB	2014	ZOLITUR	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3a.43 Caviendes et al ICM diagnostico Honduras	2014	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3a.44 Estrategia de Lineamientos y Regulaciones	2014	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3a.45 Tesis Ordenamiento Territorial	2012	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3a.46 GEO-LA CEIBA	2017	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3a.47 46 GEO-TELA	2017	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3a.48 Diagnostico Municipal Trujillo	2011	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3a.49 Plan de Ordenamiento PC	2012	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3a.50 PDM-OT Omoa final	2012	CCO	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3a.51 EcoAudit-2020-HN-3a	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>

#### Approval:

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Healthy Reef Initiative Collection Sheet Eco-Audit 2020 - Honduras		3b
<b>Indicator:</b>		
<b>Name:</b>	3b. Watershed management plans related to coastal zone planning	
<b>Description:</b>	<p>Justification: Effective, integrated land-use planning inside the watersheds of the MAR is essential to preventing erosion, sedimentation, and nutrient pollution into coastal and marine waters. In particular, nutrients are a major cause of the overgrowth of algae which can kill corals. Nutrients cause a major damage in reefs and benthic ecosystems. High water quality standards help to maintain coral reefs. Proper watersheds management includes appropriate land-use practices in erosion-prone areas and is essential for preserving water quality and ensuring that the transport of sediment, nutrients, and other pollutants to coral reefs is minimized. If sound watershed management plans are implemented, nutrient and sediment delivery are likely to be reduced, promoting recovery of degraded reefs. Watershed-based management plans foster sustainable development, and complement similar coastal development plans along the coastline. This indicator measures the spatial extent and development of such plans or steps toward developing them.</p>	
<b>Theme:</b>	Theme 3 – Coastal Zone Management	
<b>Ranking Criteria:</b>		
<p>5 – A spatially comprehensive and integrated watershed management plan(s) that protects coastal and marine water quality, exists for the country (or state within the MAR area) and have been legally adopted</p> <p>4 – A spatially comprehensive and integrated watershed management plan(s) that protects coastal and marine water quality, exists for the country (or state within the MAR area) but has (have) not been legally adopted; or at least 50% of watershed area is within plan(s) that are legally adopted</p> <p>3 – There is work (monitoring water quality programs, drafts in progress, consultation reports, research or strategic plans) leading to an integrated watershed plan(s) in at least 50% of watershed area</p> <p>2 – There is work (monitoring water quality programs, drafts in progress, consultation reports, research or strategic plans) leading to an integrated watershed management plan(s) in at least 10% of watershed area</p> <p>1 – No documentation of actions that meet the criteria to achieve a higher score is available</p>		
<b>Responsible:</b>		
<b>Organization:</b>	Independent consultant	
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<b>Grade:</b>		
<b>Grade:</b>	2020: 3-Fair	
<b>Result:</b>	<p>2020 - There are monitoring waters programs in the Bay Islands and the North Coast, as well as a national and international framework to protect water resources and watersheds.</p> <p>2016 - A land use management plan has been created for the 3 Bay Islands and there are plans to develop one for Tela and La Ceiba. Marine water quality monitoring is being done on Utila and Roatan. Honduras has 77,479.25 Km<sup>2</sup> of MAR watershed terrestrial area, of which 42,623.05 Km<sup>2</sup> are under some form of management or protection scheme, which equals 44.14%.</p> <p>2014 - There exists a Regional Development Plan for Region 4 approved for the Lean Valley that includes the watershed of the region, but it has not yet been implemented.</p> <p>2011 - This indicator had not been created when the 2011 Eco Audit was carried out.</p>	
<b>Observations:</b>		
<b>Observations:</b>	<p>2020 - The hydric politic of Honduras (HN3b.21) promote watersheds integral management. Watershed management is included in all territorial plans of the main North Coast municipalities and the Bay Islands. A summary table with this information is presented (HN3b.37). Yet the implementation is weak. But CESSCO is leading the water quality monitoring in the North Coast (HN3b.35), and NGOs are leading it in the Bay Islands, and have led the adherence to international protocols (HN3b.22). In Roatan, there is a watershed reforestation program (HN3b.36).</p> <p>2016 - A land use management plan has been created for the 3 Bay Islands (HN3b.5-8); a specific one for the island of Utila (HN3b.9 &amp; 10) and there is work being done to create some for Tela and La Ceiba (HN3b.14 &amp; 15). A national policy for the protection of wetlands has been created (HN3b.11) and there are RAMSAR Maps for Utila (HN3b.12 &amp; 13). Water quality monitoring is being carried out on Roatan and Utila (HN3b.16 &amp; 17). The MAR ecoregion encompasses watershed/land area in all 4 countries, amounting to a total of 181,727.84 Km<sup>2</sup>, of which Honduras has the largest area at 77,479.25 Km<sup>2</sup>. Based on these numbers, and in order to reach a score of "3", Honduras would need to have work (monitoring water quality programs, drafts in progress, consultation reports, research or strategic plans) leading to an integrated watershed plan(s) in at least 50% of watershed area which equals to 38,739.63 Km<sup>2</sup>. According to HN3b.18, created by the Protected Areas Dept of CESSCO, 42,623.05 Km<sup>2</sup> are under some form of management or protection scheme, which equals 44.14%. The CESSCO has a plan to reach 50% by 2020.</p> <p>2014 - There exists a Regional Development Plan for Region 4 approved for the Lean Valley that includes the watershed of the region (HN3b.1, Pgs. 188-190). A Development Plan for the Development of the Sula Valley (Region1) is being developed that partially covers the watersheds for the Ulua and Chamelecon Rivers. There is also a Land Use Planning Document for the Area of Trujillo. There are also geo-referenced layers that show most of the micro-watersheds of the country (HN3b.2), which is a greta tool in the development of land use planning tools and documents.</p>	

2011 - This indicator had not been created when the 2011 Eco Audit was carried out.

**Source:**

	Document/File name	Date	Institution	Location
2014	HN3b.1-Propuesta Desarrollo Regional Valle Lean	Abr-2011	Secretaria de Recursos Naturales y Ambiente	Secretaria de Recursos Naturales y Ambiente
	HN3b.2-Informacion Microcuencas ICF Junio 2012	Jun-12	Instituto Nacional de Conservacion y Desarrollo Forestal, Areas Protegidas y Vida Silvestre	Instituto Nacional de Conservacion y Desarrollo Forestal, Areas Protegidas y Vida Silvestre
	HN3b.3-Lineamientos Generales para Planes de Desarrollo Regional	Ene-2013	Secretaria Tecnica de Planificacion y Cooperacion Externa	Secretaria Tecnica de Planificacion y Cooperacion Externa
	HN3b.4-Lineamientos Generales para Planes de Desarrollo Municipal	Ago-2012	Secretaria Tecnica de Planificacion y Cooperacion Externa	Secretaria Tecnica de Planificacion y Cooperacion Externa
2016	HN3b.5 Plan Ordenamiento Territorial Islas de la Bahía Vol I	Nov-14	ZOLITUR	ZOLITUR
	HN3b.6 Plan Ordenamiento Territorial Islas de la Bahía Vol II	Nov-14	ZOLITUR	ZOLITUR
	HN3b.7 Plan Ordenamiento Territorial Islas de la Bahía Vol III	Nov-14	ZOLITUR	ZOLITUR
	HN3b.8 Plan Ordenamiento Territorial Islas de la Bahía Vol IV	Nov-14	ZOLITUR	ZOLITUR
	HN3b.9 Plan Ordenamiento Territorial Utila	Aug-12	BID / IHT	BID / IHT
	HN3b.10 Utila Land Use Mgmt Plan	Aug-12	BID / IHT	BID / IHT
	HN3b.11 Política Nacional de Humedales	2012		
	HN3b.12 Mapa Ramsar Utila	May-12	BICA	BICA
	HN3b.13 Shapes Ramsar Utila	May-12	BICA	BICA
	HN3b.14 KMZ Tela	May-15	Municipalidad de Tela	Municipalidad de Tela
	HN3b.15 AutoCAD La Ceiba	Mar-15	Municipalidad de La Ceiba	Municipalidad de La Ceiba
	HN3b.16 Fotos Monitoreo Calidad de Agua	2015	BICA	BICA
	HN3b.17 BICA Water Quality Monitoring Contract	2015	BICA	BICA
	HN3b.18. Oficio DAP 006-2016 Areas Bajo	2015	ICF	ICF
	HN3b.19 SIG Areas Bajo Regimen Especial	2015	ICF	ICF
	HN3b.20 Informe Final del Plan de Ordenamiento Territorial de las IB	2014	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3b.21 Política Hídrica de Honduras	2008	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3b.22 Decreto 9-2018 Convenio de Cartagena	2018	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3b.23 PDM-OT Omoa final	2012	CCO	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
2020	HN3b.24 GEO-LA CEIBA	2017	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3b.25 GEO-TELA	2017	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3b.26 Diagnostico Municipal Trujillo	2011	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3b.27 Plan de Ordenamiento PC	2012	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3b.28 Diagnóstico Municipal Balfate	2011	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3b.29 Diagnóstico Municipal El Porvenir	2011	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3b.30 Diagnóstico Municipal Esparta	2011	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3b.31 Diagnóstico Municipal Jutiapa	2011	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3b.32 Diagnóstico Municipal La Masica	2011	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3b.33 Diagnóstico Municipal San Francisco	2011	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3b.34 Diagnóstico Municipal Arizona	2011	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3b.35 PPT aguas residuales domesticas Costa norte	2019	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3b.36 Informe de Subprograma Reforestaciones	2020	BICA - Roatán	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3b.37 EcoAudit-2020-HN-3b	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>

**Approval:**

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Healthy Reef Initiative  
Collection Sheet Eco-Audit 2020 - Honduras

## Indicator:

Name:	3c. Mangrove extent as an indicator of the effectiveness of the coastal zone management plan implementation.	Status:	Final
Description:	Justification: Mangroves are regionally 'protected' on different levels through regulations requiring permits for their removal. However, even with the strictest regulations, many illegal clearings occur. Ultimately we need to track the remaining extent of mangroves in order to help protect their critical ecosystem functions, which include shoreline protection, provision of fisheries habitat, and biodiversity.		
Theme:	Theme 3 – Coastal Zone Management		

## Ranking Criteria:

5 – A spatially comprehensive and integrated plan or mangrove regulations, that contribute to the objectives of the coastal zone management plans, exist for the country (or state within the MAR area) and has been legally adopted, having mangrove coverage preserved in 90% from baseline status (probably 1990). Or more than 90% of the mangroves in the country or state are legally and effectively protected.

4 – A spatially comprehensive and integrated plan or mangrove regulations that contributes to the objectives of the coastal zone management plans, exist for the country (or state within the MAR area) but have not been legally adopted, having mangrove coverage preserved in 70% from original status. Or more than 70% of the mangroves in the country or state are legally and effectively protected.

3 – There is work (monitoring mangrove extent, drafts in progress, consultation reports, research or strategic plans) leading to a spatially comprehensive and integrated plan or mangrove regulations, or at least 50% of original mangrove cover is maintained or legally protected.

2 – A plan or strong mangrove regulations exist, but doesn't contribute to the objectives of the coastal zone management plan or are poorly enforced, with many public records of illegal activity.

## Responsible:

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## Grade:

Grade:	2020: 3-Fair	2016: 2-Poor	2014: 2-Poor	2011: NA
Result:	<p><b>2020</b> - The total extent of mangrove has been estimated currently (HN3c.26). Moreover, a new regional strategy for management, conservation, restoration, and monitoring of MAR Mangroves has been proposed but is not still legally adopted (HN3c.27).</p> <p><b>2016</b> - There are no new documents that allow raising the score for this indicator.</p> <p><b>2014</b> - Much of what is needed to achieve a score of 3 is being accomplished. But Honduras receives a total of 2, as we do not have 50% of the mangroves in the Caribbean coast under any kind of legal or effective protection. According to HN3c.9, only 24% of the country's wetlands are under some form of protection. It must be stated that one of the sites under legal protection is Utila, which has mangroves in very good condition and these cover almost 70% of the island.</p> <p><b>2011</b> - This indicator had not been created when the 2011 Eco Audit was carried out.</p>			

## Observations:

Observations:	<p><b>2020</b> - The current total extends of mangroves estimated for the whole country (North and South coast and islands) is 502 km<sup>2</sup> (HN3c.26 &amp; HN3c.38). There is an estimated decline of 67% in mangrove cover, based in the historical reference of 1525 km<sup>2</sup> in 1980 (HN3c.27) for the whole country. Almost all Honduras MPAs have mangroves, and these are protected (the exception is RVSMBT, but this MPA does not have coastal area), with an estimated protected mangrove area of 50 km<sup>2</sup> (HN3c.39 &amp; HN3c.40). There are 11 declared Ramsar sites in Honduras, and 10 of them are located in marine coastal areas and 1 is the Yojoa Lake, located in the interior of the country. For the RAMSAR located in marine coastal areas, 1 is located in the South and 9 in the North. Seven of these Ramsar sites are part of declared MPAs. A summary table with this information is presented (HN3c.39). A mangrove reforestation project exists in Roatan, and since 2015, 14989 red mangroves have been planted, with an estimated mortality of 29% (4352 mangrove plants).</p> <p><b>2016</b> - A post-graduate student carried out some mangrove research in the Bay Islands (HN3c.17). RMP has a mangrove restoration project underway on the island of Roatan (HN3c.18). The TRIGOH area publishes newsletters on the state of mangroves (HN3c.19). The Zambuco area has been declared as a RAMSAR site (HN3c.20, 22 &amp; 25). There exists information on the status of mangroves under (HN3c.21) and a mangrove restoration project under HN3c.23 &amp; 24.</p> <p><b>2014</b> - There is an inventory of wetlands (HN3c.1 and HN3c.9, Pg. 35-219), as an approximation to estimate hectares of mangroves, as well as graphs on how they have changed over time (HN3c.12). Under RAMSAR (HN3c.11), each area that contains mangroves must have a registry with cover information (HN3c.2, HN3c.3 y HN3c.4). Sites that have been declared as RAMSAR sites are Cuyamel-Omoa (HN3c.5) and Utila (HN3c.6). Press notes for these areas can be seen under HN3c.7 y HN3c.8. The Small Grants Project by UNDP and Fall Brooks Center have carried out activities in order to replant/replenish mangrove areas with mangroves and related species. The Utila Environmental Municipal Unit, Fundacion Islas de la Bahia and PNUMA have a mangrove restoration project (HN3c.10, Pg. 4 General and Specific Objectives). There is also a project on Guanaja (HN3c.13; HN3c.14, Pg. 1 &amp; HN3c.15). The REDD+ (Reduccion de Emisiones derivadas de la Deforestacion y la Degradacion forestal y de la Biodiversidad) forestry monitoring protocol <u>monitors fauna as well as state of forests (HN3c.16, Pg. 2 Introduction and Objectives)</u>.</p> <p><b>2011</b> - This indicator had not been created when the 2011 Eco Audit was carried out.</p>
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## Source:

Document/File name	Date	Institution	Location
HN3c.1 Capas SIG Manglares de Honduras	ND	ND	ND



2014	HN3c.2 Ficha Ramsar Cuyamel Omoa	Ago-2012	RAMSAR e Instituto Nacional de Conservacion y Desarrollo Forestal, Areas Protegidas y Vida Silvestre	Instituto Nacional de Conservacion y Desarrollo Forestal, Areas Protegidas y Vida Silvestre
	HN3c.3 Ficha Ramsar Utila	Ago-2012	RAMSAR e Instituto Nacional de Conservacion y Desarrollo Forestal, Areas Protegidas y Vida Silvestre	Instituto Nacional de Conservacion y Desarrollo Forestal, Areas Protegidas y Vida Silvestre
	HN3c.4 Ficha Ramsar Zambuco	Feb-13	RAMSAR e Instituto Nacional de Conservacion y Desarrollo Forestal, Areas Protegidas y Vida Silvestre	Instituto Nacional de Conservacion y Desarrollo Forestal, Areas Protegidas y Vida Silvestre
	HN3c.5 Declaratoria Ramsar Humedales	Feb-13	RAMSAR	RAMSAR
	HN3c.6 Declaratoria Ramsar Humedales Utila	Feb-13	RAMSAR	RAMSAR
	HN3c.7 Artículo Web dos sitios Ramsar en	Apr-13	RAMSAR	RAMSAR
	HN3c.8 Reportaje Nuevos sitios Ramsar en	Apr-13	La Tribuna	La Tribuna
	HN3c.9-Inventario de Humedales de Honduras	ND	Secretaría de Recursos Naturales y Ambiente	SERNA
	HN3c.10-Rehabilitacion Humedal Big Bight Utila	ND	Unidad Municipal Ambiental de la Municipalidad de Utila	Unidad Municipal Ambiental de la Municipalidad de Utila
	HN3c.11-Inventario de Humedales RAMSAR	ND	RAMSAR	RAMSAR
	HN3c.12-Distribucion EspacioTemporal de los Manglares de Honduras	Nov-13	Carrasco, et. al.	Healthy Reefs Initiative
	HN3c.13-Actividades Reforestacion Manglares	Sep-13	Rubio, Emelly	Healthy Reefs Initiative
	HN3c.14-Guanaja Mangrove Restoration 2012 Final Report	Dec-12	New England Biolabs Foundation	New England Biolabs Foundation
	HN3c.15-Guanaja Mangrove Restoration Map	Dec-12	New England Biolabs Foundation	New England Biolabs Foundation
	HN3c.16-Monitoreo Forestal en el Contexto de REDD+ Honduras	NA	Instituto Nacional de Conservacion y Desarrollo Forestal y Vida Silvestre	Instituto Nacional de Conservacion y Desarrollo Forestal y Vida Silvestre
2016	HN3c.17 Mangrove Research Verena Hoelzer	Aug-15	HRI	HRI
	HN3c.18 Mangrove Restoration Project RMP	Oct-15	Roatan Marine Park	Roatan Marine Park
	HN3c.19 Boletín 6 Manglares	Jan-15	Proyecto Mangle	Proyecto Mangle
	HN3c.20 Carta Designación RAMSAR Zambuco	Mar-13	Secretaría de Recursos Naturales y Ambiente	Secretaría de Recursos Naturales y Ambiente
	HN3c.21 Mangrove Forests in Guatemala Honduras and Nicaragua UNEP Report	Apr-15	UNEP	UNEP
	HN3c.22 Mapa límites Laguna de Zambuco	Feb-13	CREDIA	CREDIA
	HN3c.23 Plan de Restauración de Bosques de	2015	BICA Roatan	BICA Roatan
	HN3c.24 Presentacion Proyecto Manglares	Apr-13	PNUMA	PNUMA
	HN3c.25 Resolucion 017 2010 Zambuco	2010	Instituto Nacional de Conservacion y Desarrollo Forestal y Vida Silvestre	Instituto Nacional de Conservacion y Desarrollo Forestal y Vida Silvestre
2020	HN3c.26 Cobertura Honduras 2020	2020	ICF-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3c.27 ERM/CRM-2020-2025	2019	Dibio	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3c.28 Ficha Ramsar Cuero y Salado	1993	Dibio	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3c.29 Ficha Ramsar Jeanette Kawa	1993	Dibio	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3c.30 Ficha Ramsar Lago de Yojoa	2004	Dibio	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3c.31 Ficha Ramsar Laguna de Bacalar	2001	Dibio	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3c.32 Ficha Ramsar Punta Izopo	1996	Dibio	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3c.33 Ficha Ramsar Sitio 1000 - Áreas Protegidas de la Zona Sur	1999	Dibio	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3c.34 Ficha Ramsar Santa Elena	2018	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3c.35 Ficha Ramsar Laguna de Alvarado	2019	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3c.36 Resumen Sitios Ramsar Honduras-2020	2020	UNAH-ITS	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3c.37 Informe de Subprograma Reforestaciones	2020	BICA - Roatán	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3c.38 Manglares de Honduras ICF shape	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3c.39 GIS Mangroves Protected	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN3c.40 EcoAudit-2020-HN-3c	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>

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Healthy Reef Initiative  
Collection Sheet Eco-Audit 2020 - Honduras

## Indicator:

		Status:	Final
Name:	Standards for wastewater management/sewage treatment		
Description:	International efforts to improve sanitation in particularly sensitive ecosystems including those near coral reefs and seagrass (e.g. Class I waters) have evolved, specifically through the creation of international standards for sewage treatment. This indicator measures the extent of each country's adoption and implementation of these international standards within the Cartagena Convention's Protocol Concerning Pollution from Land-Based Sources and Activities (LBSMP Protocol).		
Theme:	Theme 4 – Sanitation and Sewage Treatment		

## Ranking Criteria:

5 – LBSMP Protocol for Class I waters are legally adopted and there is good implementation by the country  
 4 – LBSMP standards for Class I waters are legally adopted but there is inadequate implementation by the country  
 3 – LBSMP standards for Class II waters have been legally adopted and there is good implementation by the country  
 2 – LBSMP standards for Class II waters are legally adopted and there is inadequate implementation by the country  
 1 – No standards or standards below Class II

## Responsible:

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## Grade:

Grade:	2020: 4-Good	2016: 2-Poor	2014: 2-Poor	2011: 2-Poor
Result:	<p><b>2020</b> - Cartagena Treaty has been ratified in 2018, which includes LBSMP class I and II waters protocols, but there is an inadequate implementation by the country.</p> <p><b>2016</b> - No new documents were found that would allow increasing the score of this indicator.</p> <p><b>2014</b> - The Biodiversity Dept (DIBIO) is working on the approval and signature of the LBS Protocol, which has already been accepted by the different parties involved. The last meeting has not yet been celebrated, in which this protocol is officially accepted into the list of International Treaties ratified by Honduras.</p> <p><b>2011</b> - There exist national standards meeting Class II parameters, but they are poorly enforced. Honduras has not signed the Cartagena Convention. No evidence of implementation of these standards was found.</p>			

## Observations:

Observations:	<p><b>2020</b> - The Cartagena Treaty has been ratified, including the LBSMP protocol (HN4a.20). Some water quality studies have been done in the North Coast and Bay Islands to evaluate the standards for class I and II protocols. Yet pollution of some sort (fecal, heavy metal, total suspended solids, and oil/grease) exist all along the sites evaluated (HN4a.22). A summary table is presented (HN4a.24).</p> <p><b>2016</b> - According to (HN4a.14), Ex-President Pepe Lobo accepted and approved the following protocols to be sent to National Congress for final approval: Convention for the Protection and Development of the Marine Environment of the Wider Caribbean Region (HN7b.3) and its Protocols: Oil Spills Protocol (HN7b.10), LBS Protocol (HN7b.5) &amp; SPAW Protocol (HN7b.4). According to meetings and talks with Marina Mercante and DIBIO (HN4a.15, 16 y 17), the notice was then lost or misplaced and was not sent to Congress. With support from CORAL Marina Mercante, DiBIO and HRI (HN4a.18 &amp; 19) this not was found remade and sent to National Congress on December 2015.</p> <p><b>2014</b> - Evidence has been found that there is coastal pollution due to inadequate or insufficient treatment of waste waters (HN4a.4 &amp; HN4a.5 from 2011 Eco Audit files). The Biodiversity Dept (DIBIO) is working on the approval and signature of the LBS Protocol, which has already been accepted by the different parties involved. The last meeting has not yet been celebrated, in which this protocol is officially accepted into the list International Treaties ratified by Honduras (HN4a.6; HN4a.7, Pg. 1, Objectives; HN4a.8, Pg. 1, Point 2.1; HN4a.9; HN4a.10; HN4a.11; HN4a.12, HN4a.13).</p>
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**2011** - The Convention for the Protection and Development of the Marine Environment in the Wider Caribbean Region is a comprehensive, umbrella agreement for the protection and development of the marine environment. This regional environmental convention is recognized as the paramount framework for cooperative regional and national actions in the Wider Caribbean Region (WCR). In particular, the Convention's LBS Protocol (Protocol Concerning Pollution from Land-based Sources and Activities) is considered an important framework for countries in the WCR to address land-based pollution (HN4a.1 & HN4a.2). A joint initiative by the Inter-American Development Bank, the United Nations Environment Programme, and the Global Environment Facility to finance wastewater treatment management projects throughout the Caribbean draws on the LBS Protocol as the legal framework to justify its efforts. Pilot projects are planned for Belize, Trinidad & Tobago, Guyana, and Jamaica (all signatories of the LBS Protocol). Each country in the MAR, excluding Honduras, has signed the Cartagena Convention's Protocol Concerning Pollution from Land-based Sources and Activities (HN4a.2). However, there does exist national standards that are above Class II and below Class I standards from the Cartagena Convention (HN4a.3: Table 1, Pg. 266). Participants during the Honduras Eco Audit national workshop (La Ceiba at the CREDIA Foundation, October 18, 2011-HN1d.1) found no evidence of enforcement of these standards, and as a result Honduras ranks 2. However, participants did present qualitative evidence of coastal contamination caused by untreated sewage (HN4a.4 and HN4a.5).

#### Source:

	Document/File name	Date	Institution	Location
2011	HN4a.1 Protocol Concerning Pollution from Land based Sources and Activities to the Convention for the Protection and Development of the Marine Environment of the Wider Caribbean Region	Jun-05	Caribbean Environment Programme	Caribbean Environment Programme
	HN4a.2 Ratification of LBS Protocol Map	Jul-05	Caribbean Environment Programme	Caribbean Environment Programme
	HN4a.3 Normas Tecnica de las Descargas de Aguas Residuales a Cuerpos Receptores y Alcantarillado Sanitario	Apr-96	Secretaria de Salud	Secretaria de Salud
	HN4a.4 Roatan Contaminacion Daña el Arrecife de Coral	Jun-11	El Heraldo	El Heraldo
	HN4a.5 Crece la isla pero tambien la necesidad de infraestructura	Aug-11	El Heraldo	El Heraldo
2014	HN4a.6 Carta de DIBIO Avances Protocolo LBS	May-13	DIBIO	DIBIO
	HN4a.7 Ayuda Memoria PNUMA 12 Feb 2013	Feb-13	DIBIO	DIBIO
	HN4a.8 Cronograma al PA TSC	ND	DIBIO	DIBIO
	HN4a.9 Informe Convenio de Cartagena	ND	DIBIO	DIBIO
	HN4a.10 Opinion Legal de DIBIO acerca de SPAW	Jun-13	DIBIO	DIBIO
	HN4a.11 Opinion Legal de SERNA acerca de SPAW	Dec-12	DIBIO	DIBIO
	HN4a.12 Plan de Accion Convenio de Cartagena	ND	DIBIO	DIBIO
	HN4a.13 Informe DecimoQuinta Reunion Programa Ambiental del Caribe	Oct-12	DIBIO	DIBIO
2016	HN4a.14 Acuerdos Medio Marino del Gran Caribe Firmados por Pepe Lobo	Feb-14	Secretaria de Relaciones Exteriores y Cooperación Internacional de la República de Honduras	Secretaria de Relaciones Exteriores y Cooperación Internacional de la República de Honduras
	HN4a.15 Acuerdos Ingresados al Congreso Nacional Enero 2015	Jan-15	Secretaria de Agricultura y Ganaderia	Secretaria de Agricultura y Ganaderia
	HN4a.16 Cartas Varias Cartagena	Jun-15	HRI	HRI
	HN4a.17 Reunion con Marina Mercante	Aug-15	HRI	HRI
	HN4a.18 Avances Convenio Cartagena Ago 25	Aug-15	HRI	HRI
	HN4a.19 Convenio Cartagena a Congreso Nacional	Dec-15	HRI	HRI
2020	HN4a.20 Decreto No_ 9-2018 Convenio de Cartagena	2018	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN4a.21 Waste Water Management In West End	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN4a.22 PPT aguas residuales domesticas Costa norte	2019	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN4a.23 Presentacion Linea Base CALIDAD DE AGUA MARINA cetsco Honduras	2019	CCO	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN4a.24 EcoAudit-2020-HN-4a	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>

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Healthy Reef Initiative  
Collection Sheet Eco-Audit 2020 - Honduras

Indicator:

		Status:	Final
Name:	New infrastructure for sewage treatment (in the last 5 years)		
Description:	In order to meet the LBSMP standards, new and improved sewage treatment facilities will be required. Given the high cost of this infrastructure, we expect this change to be incremental. This indicator measures progress (relative to population size) in installing such facilities.		
Theme:	Theme 4 – Sanitation and Sewage Treatment		

Ranking Criteria:

5 – New coastal municipal sewage treatment plant(s), which meet the LBSMP standards for Class I waters, exists (serving at least 5% of the coastal population)
4 – New coastal municipal sewage treatment plant(s) for coastal population, which meet the LBSMP standards for Class I waters, is under construction or approved (serving at least 5% of the coastal population)
3 – New coastal municipal sewage treatment plant (s), which meet LBSMP standards for Class I waters exists, is under construction or approved (serving less than 5% of the coastal population)
2 – New coastal municipal sewage treatment plant (s), which meet at least LBSMP standards for Class II waters exists, is under construction or approved
1 – New coastal municipal sewage treatment plant (s), which meet at least LBSMP standards for Class II waters exists, is under construction or approved

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Grade:

Grade:	2020: 3-Fair	2016: 2-Poor	2014: 2-Poor	2011: 2-Poor
Result:	<p><b>2020</b> - A new sewage treatment plant in Trujillo has been constructed, and two others are approved (Omoa and Oak Ridge). The treatment plant in Puerto Cortés, West End, and Trujillo are working adequately and serve at least 23% of coastal population municipalities in Honduras MAR.</p> <p><b>2016</b> - HRI &amp; CORAL have been working with IDB to acquire approved financing to improve waste water treatment facilities as well as create new infrastructure.</p> <p><b>2014</b> - The West End waste water treatment plant is operational and is treating waste to the set standards.</p> <p><b>2011</b> - New coastal municipal sewage treatment plants, which meet LBSMP standards for Class II waters are under construction.</p>			

Observations:

Observations:	<p><b>2020</b> - The sewage treatment infrastructure is lacking or is in bad/regular state in coastal settlements (HN4b.13), and these places correspond to 77% of population in Honduras MAR coastal municipalities (HN4b.17). A summary table with this information is presented, and the general sewage treatment performance is analyzed in eleven coastal settlements of the North Coast and Bay Islands: 45% have inadequate water treatment, 27% adequate, and 27% none (HN4b.17). West End (HN4b.14), Puerto Cortés (HN4b.15), and the newly installed treatment plant in Trujillo (HN4b.13) are examples of adequate sewage treatment, serving at least 23% of the coastal population in Honduras MAR coastal municipalities (HN4b.17). New sewage treatment plants will be in Omoa and Santos Guardiola (HN4b.13).</p> <p><b>2016</b> - HRI &amp; CORAL are working alongside the IDB (HN4b.11), holding several meetings (HN4b.9 &amp; 10) in order to have the approved financing for new sanitation infrastructure (HN4b.8), as well as investing in existing ones (HN4b.12). Once funding has been approved by the bank, new infrastructure will be built, or invest in existing ones, on Utila, Roatan, Guanaja, Trujillo, La Ceiba y Tela.</p>
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**2014** - The West End waste water treatment plant is operational and is treating waste to the set standards (HN4b.6 y HN4b.7).

**2011** - West End, Roatan is building a treatment plant that will treat 500 cubic meters/daily and serving approximately 3,000 people, providing at least secondary treatment (HN4b.4/p.2 and HN4b.5/p.19). During the Honduras Eco Audit national workshop (La Ceiba at the CREDIA Foundation, October 18, 2011- HN1d.1) Samuel Rivera (ACME Sanitation) noted that private sector business (25 in total) in Roatan have installed new treatment facilities, which provide at least secondary treatment. A list of these facilities is found in HN4b.1. Honduras' coastal population resides in the Departments of Cortés, Atlántida, Colón and Bay Islands. The population of these Departments is approximately 2.2 million (estimation (HN4b.3) based on a 2001 census (HN4b.2)), therefore the sewage treatment plant that is under construction serves about .13% of coastal population. According to this estimate, Honduras' coastal population requirements have not been met (50%-1.1 million or 5% 111 623).

#### Source:

	Document/File name	Date	Institution	Location
2011	HN4b.1 Listado de Proyectos de Tratamiento de Aguas Residuales en Roatan	Oct-11	ACME Environmental Solutions	ACME Environmental Solutions
	HN4b.2 XVI Censo Nacional de Población y V de Habitación	Jun-05	Biblioteca Virtual en Poblacion	Biblioteca Virtual en Poblacion
	HN4b.3 HN Coastal Population Calculation	Nov-11		
	HN4b.4 Proyectos de Mejoras West End	Feb-11	FUNDEMUN	FUNDEMUN
	HN4b.5 West End Treatment Plant Proposal	May-11	ACME Environmental Solutions	ACME Environmental Solutions
2014	HN4b.6 Efluente de la planta de tratamiento de West End Junio 2013	Jun-13	ACME Environmental Solutions	ACME Environmental Solutions
	HN4b.7 Planos Finales Constructivos Planta de Tratamiento West End	Feb-12	ACME Environmental Solutions	ACME Environmental Solutions
2016	HN4b.8 Carta BID Apoyo Tecnico	Feb-14	HRI	HRI
	HN4b.9 Presentacion Saneamiento BID Nov 2014 FINAL	Nov-14	HRI	HRI
	HN4b.10 Infraestructura Aportes ID	Apr-15	HRI	HRI
	HN4b.11 Carta Agradecimiento BID a HRI y	Jul-15	HRI	HRI
	HN4b.12 Resumen visitas consultoria BID	2015	HRI	HRI
2020	HN4b.13 Informe Final Consultoria BID	2015	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN4b.14 Waste Water Management In West	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN4b.15 Informacion APC	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN4b.16 Avances de diagnóstico para construir el Plan de Manejo Costero Integrado de Tela	2017	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN4b.17 EcoAudit-2020-HN-4b	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>

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Healthy Reef Initiative  
Collection Sheet Eco-Audit 2016 - Honduras

## Indicator:

		<b>Status:</b>	<b>Final</b>
<b>Name:</b>	Reduce upstream watershed pollution sources (agriculture, livestock, urban/tourism, industrial, rural, deforestation) through better management practices, action plans and regulations in each sector		
<b>Description:</b>	Justification-Upstream watershed pollution sources and practices		
<b>Theme:</b>	Theme 4 – Sanitation and Sewage Treatment		

## Ranking Criteria:

5 – “Better management practices”, action plans and/or regulations exist and are under implementation, addressing 80% of the pollution sources occurring in the watersheds (agriculture, livestock, urban/tourism, industrial, rural, deforestation -those which occur in an analyzed watershed- not all occur in all watersheds) covering at least 80% of watershed areas, with demonstrated water quality improvements

4- “Better management practices”, action plans and/or regulations exist for at least 4 of the 6 pollution sources (agriculture, livestock, urban/tourism, industrial, rural, deforestation) covering 50% of watershed areas, with some demonstrated water quality improvements

3- “Better management practices”, action plans and regulations exist for at least 2 of the 6 pollution sources (agriculture, livestock, urban/tourism, industrial, rural, deforestation) covering 30% of watershed areas, with some demonstrated water quality monitoring

2- “Better management practices”, action plans and regulations for 1 of the 6 pollution sources (agriculture, livestock, urban/tourism, industrial, rural, deforestation) covering at least 10% of the watershed area

## Responsible:

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## Grade:

<b>Grade:</b>	2020: 2-Poor	2016: 2-Poor	2014: 2-Poor	2011: NA
<b>Result:</b>	<p><b>2020</b> - There are some advances to reduce, manage solid waste, and create citizen awareness. But overall, there is still inadequate urban waste treatment in coastal communities in Honduran MAR. There is no additional information on industrial, agricultural, and livestock pollution management.</p> <p><b>2016</b> - Tourism best practices are being implemented by the GeoTourism Council in both Utila and Roatan, as well as marine water quality monitoring on both islands.</p> <p><b>2014</b> - Best Practices for the Agricultural sector exist (RSPO), for the area of Tela. WWF-CA has created and shared best practices in several industrial agricultural sectors of the country. For the tourism sector, Best Practices are being implemented and fostered by the GeoTourism Council, specifically on Roatan and Utila. There is a monitoring of water quality being carried out by BICA Roatan (HN4c.7). There are plans to certify certain plantations. Honduras does not achieve a score of 3 as it does not reach the goal of 30% of watersheds under implementation of Best Practices</p> <p><b>2011</b> - This indicator had not been created when the 2011 Eco Audit was carried out.</p>			

## Observations:

<b>Observations:</b>	<p><b>2020</b> - Some advances have been done to manage urban waste with the development of a law of integrated waste management that is currently still a draft (HN4c.15). Moreover, there is an evaluation of solid waste treatment that has been done for all the North Coast and the Bay Islands (HN4c.17), but most of the coastal settlements have inadequate solid waste treatment and must invest to build adequate sanitary landfill (HN4c.27). Utila (HN4c.16) and Roatan (HN4c.24) are leaders in the diminish of plastic bags (as there is a ban for each island) and both islands to promote best tourism practices (HN4c.21-HN4c.23). In Roatan, projects of citizen awareness and participative science are been developed to understand the source of pollution and waste treatment in the Island (HN4c.25 &amp; HN4c.26). For other sources of pollution, such as agriculture, livestock, deforestation, and industrial, there is no documentation of any implementation for its management and reduction.</p>
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**2016** - Tourism best practices are being implemented by the GeoTourism Council in both Utila and Roatan. The businesses applying these can be found in HN4c.12-14, as well as the contract for Leah Berry, who has been hired to do this work on Utila (HN4c.11). Marine water quality is being carried out for both islands, and BICA has been hired to do it (HN4c.9 & 10). There are other activities being carried out for other agricultural practices, as well as for the palm oil industry, but the needed MOVs were not acquired (HN4c.15)

**2014** - There are Best Practices for the Agricultural sector (RSPO) (HN4c.1 Pg. 11-37), especially with the african palm in the area of Tela (HN4c.2, Pg. 1 last paragraph; HN4c.3, Pg.2). WWF-CA has created and shared best practices in several industrial agricultural sectors of the country. For the tourism sector, Best Practices are being implemented and fostered by the GeoTourism Council (a CORAL and NatGeo initiative), specifically on Roatan and Utila (HN4c.4, Pg. 1; HN4c.5; HN4c.6), with approval from the Ministry of Tourism. There is a monitoring of water quality being carried out by BICA Roatan (HN4c.7, Pg. 8) with funds provided by CORAL. There are plans, within the FHIA, to certify certain plantations, such as cacao and coffee. Honduras does not achieve a score of 3 as it does not reach the goal of 30% of watersheds under implementation of Best Practices

**2011** - This indicator had not been created when the 2011 Eco Audit was carried out.

#### Source:

	Document/File name	Date	Institution	Location
2014	HN4c.1 Adopcion Norma Internacional RSPO	Jun-13	Round Table on Sustainable Palm Oil	Round Table on Sustainable Palm Oil
	HN4c.2 Consulta Publica RSPO	Aug-13	Round Table on Sustainable Palm Oil	Round Table on Sustainable Palm Oil
	HN4c.3 Propuesta Pequeños Propietarios RSPO	Jun-13	Round Table on Sustainable Palm Oil	Round Table on Sustainable Palm Oil
	HN4c.4 Go Blue Central America Nat Geo Best Practices	Aug-12	CORAL	CORAL
	HN4c.5 Nat Geo List Utila	Mar-13	CORAL	CORAL
	HN4c.6 News Clip on MARTI	Aug-13	CORAL	CORAL
	HN4c.7 Water Quality Report Roatan	Aug-13	CORAL	CORAL
2016	HN4c.8 Fotos Monitoreo Calidad de Agua Roatan y Utila 2015	Nov-15	CORAL	CORAL
	HN4c.9 BICA Contract 2015	Nov-15	CORAL	CORAL
	HN4c.10 GoBlue Utila Contract Leah Berry	Nov-15	CORAL	CORAL
	HN4c.11 GBCA Roatan Hotels and Resorts	Nov-15	CORAL	CORAL
	HN4c.12 GBCA Utila Hotels and Resorts	Nov-15	CORAL	CORAL
	HN4c.13 RSG Members Roatan	Nov-15	CORAL	CORAL
	HN4c.14 Solicitud de Informacion	Nov-15	HRI	HRI
2020	HN4c.15 LEY GIR Ultima Versión Revisada en SAPP	2019	DNCC	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN4c.16 ORDENANZA DE BOLSAS	2019	FIB	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN4c.17 Informe Final Consultoria BID	2015	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN4c.18 Avances de diagnóstico para construir el Plan de Manejo Costero Integrado de Tela	2017	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN4c.19 Plan de Manejo MNMCC 2014-2025	2014	Fundación Cayos Cochinos	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN4c.20 Presentación Relleno Sanitario PC.pdf	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN4c.21 Alojamiento - Go Blue Bay Islands	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN4c.22 Comida - Go Blue Bay Islands	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN4c.23 Tiendas - Go Blue Bay Islands	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN4c.24 Ordenanza Bolsas Plásticas Roatán	2018	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN4c.25 Resultados de Auditoría de marcas	2020	BICA-Roatán	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN4c.26 Resultados de la encuesta de separación	2020	BICA-Roatán	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN4c.27 EcoAudit-2020-HN-4c	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>

#### Approval:

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**Healthy Reef Initiative**  
**Collection Sheet Eco-Audit 2020 - Honduras**

**Indicator:**

<b>Name:</b>	Standardized monitoring of coral reef health and information management	<b>Status:</b>	Final
<b>Description:</b>	This indicator measures the progress of researchers and managers to standardize monitoring efforts, apply them in regular monitoring of representative sites (those selected based on non-biased sampling of different habitat types) and share the information in an accessible and current database.		
<b>Theme:</b>	Theme 5 – Research, Education and Awareness		

**Ranking Criteria:**

- 5 – A regional standardized monitoring program of coral reef health and a database with routine, up-to-date and representative data both exist  
 4 – A regional standardized monitoring program exists, and assessments have been performed for representative sites (at least once)  
 3 – Representative data has been collected on coral reef health  
 2 – Plans to develop a regional standardized monitoring program and database are well underway (draft documents exist)  
 1 – No documented action that meets the criteria to achieve a higher score is available

**Responsible:**

<b>Organization:</b>	Independent consultant
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**Grade:**

<b>Grade:</b>	2020: 5-Very Good	2016: 5-Very Good	2014: 4-Good	2011: 4-Good
<b>Result:</b>	<p><b>2020</b> - AGRRA monitoring coordinated by HRI was done in 2016 and 2018, and the reports were presented in 2018 and 2020. All these results and documents are readily available on an on-line database on the Healthy Reefs website, which has a GeoPortal tool, which allows visualizing the results on maps.</p> <p><b>2016</b> - AGRRA Monitoring has been carried out for Honduras, with 60 sites in the Honduran Caribbean. The results are readily available on an on-line database on the Healthy Reefs website, as well as the addition of a GeoPortal tool, which allows visualizing the results on maps. The AGRRA Protocol has been updated to a newer version and has been completely translated to Spanish.</p> <p><b>2013</b> - AGRRA Monitoring has been carried out for Honduras, with over 60 sites in the Caribbean. The results are readily available on an on-line database on the Healthy Reefs website (HN5a.8). This database has been created alongside AGRRA and CREDIA.</p> <p><b>2011</b> - AGRRA Monitoring has been carried out for Honduras, although results are not readily available in an accessible database. Because the available database criteria is not fully met for all monitoring sites, and a full complement of representative sites are not monitored at least biennially this indicator ranks a 4.</p>			

**Observations:**

<b>Observations:</b>	<p><b>2020</b> - MAR region has been monitored systematically with AGRRA methodology in 2005, 2006, 2009, 2010, 2011, 2012, 2014, 2016, and 2018. In the campaign held in 2016, 81 sites were monitored for Honduras, and in 2018, 73 sites were monitored. The 2016 MAR campaign results are presented in the 2018 MAR Report Card (HN5a.16 &amp; HN5a.17), and the 2018 MAR campaign results are presented in the 2020 MAR Report Card (HN5a.18). Moreover, a mission to explore Trujillo's coral reefs was lead by UNAH and HRI in 2015 (HN5a.19) and a mission to exploring Cayos Miskitos lead by PRAWANKA took place in 2019 (HN5a.20). Both used AGRRA protocols. A summary table is presented (HN5a.22).</p> <p><b>2016</b> - Monitoring with the AGRRA methodology has been carried out in 2006, 2009, 2010, 2011, 2012, 2013 and 2014 and the latest results can be seen in the IReport Cards of the Mesoamerican Reef published by HRI (HN5a.10 &amp; 11). The results are readily available on an on-line database on the Healthy Reefs website (HN5a.14), as well as the addition of a GeoPortal tool (HN5a.15), which allows visualizing the results on maps. The AGRRA Protocol has been updated to a newer version and has been completely translated to Spanish (HN5a.12 &amp; 13).</p>
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**2014** - Monitoring with the AGRRA methodology has been carried out in 2006, 2009, 2010, 2011 and 2012, and the results can be seen in the Report Cards of the Mesoamerican Reef published by HRI (HN5a.2 (Pg. 8 & 9); HN5a.4 (Pg. 6 & 7); & HN5a.7 (Pg. 16 & 17)) and also in agrra.org (HN5a.6). Honduras has stated that AGRRA is the official reef monitoring methodology for the country. Partners at the 2nd Regional Partners Meeting (Belize Aug 5-8 de 2013) gave this indicator a value of 5, as all the results are readily available online (HN5a.8 (<http://www.healthyreefs.org/cms/es/geoportal/>)). The AGRRA manual includes a description on how to select "representative" sites, as well as suggestions on number of sites per country or geomorphological region within the Caribbean (Table 1/HN5a.1/p.4). The 2012 Report Card of the Mesoamerican Reef can be found under HN5a.7 (Pg. 16 & 17)). There is also an online map that shows the sites under constant monitoring, for the complete MAR and their values, in both IHRI and SIHRI (HN5a.9).

**2011** - AGRRA Monitoring has been carried out in 2006, 2009, 2010 and 2011, and results are available in the HRI Report Card as well as agrra.org (HN5a.6). Honduras has adopted AGRRA as the official monitoring protocol of coral reefs. Participants during the Honduras Eco Audit national workshop (La Ceiba at the CREDIA Foundation, October 18, 2011-HN1d.10) did not rank Honduras as a 5 because results are not readily available to the public until after publication. However, there are plans by HRI and AGRRA to develop an online database that will allow reef managers to query results immediately. The AGRRA Method Manual includes a description of the process for selecting 'representative' sites and a suggested number of sites for each country / geomorphologic region in the Caribbean (Table 1/HN5a.1/p.4). This methodology was used by TNC to select the 326 sites across the MAR surveyed in 2006 and presented in HRI's 2008 Report Card and shown on the centerfold map (HN5a.2/pg 7-8 for map), and as described in TNC's Reef Resilience Report (HN5a.3 - Only Front Page is Available since Report is not for Distribution). All of the sites in the 2008 Report Card were selected as representative using the AGRRA methodology (HN5a.1/Table 1/p.4). In Honduras, there were 60 representative sites monitored in 2006 (shown in the 2008 Report Card-HN5a.2/p.7-8) and there were 16 sites sampled (see table in HN5a.5-for site data used in the 2010 Report Card) in 2009/10 (shown in the 2010 Report Card-HN5a.4/p.5-6).

#### Source:

	Document/File name	Date	Institution	Location
2011	HN5a.1 AGRRA Protocols Version 5.4	Apr-10	AGRRA	AGRRA
	HN5a.2 Report Card for the Mesoamerican Reef 2008	2008	HRI	HRI
	HN5a.3 Rapid reef assessment to identify resilient sites in the Mesoamerican reef	2009	TNC	TNC
	HN5a.4 Report Card for the Mesoamerican Reef 2010	2010	HRI	HRI
	HN5a.5 Data Mar 2010 Report Card	2010	HRI	HRI
	HN5a.6 AGRRA Database	2011	AGRRA	AGRRA
2014	HN5a.7 Report Card for the Mesoamerican Reef 2012	2012	HRI	HRI
	HN5a.8 HRI Online Database GeoPortal	2013	HRI	HRI
	HN5a.9 HRI Interactive Map	2013	HRI	HRI
2016	HN5a.10 HRI 2015 Report Card English	2015	HRI	HRI
	HN5a.11 Reporte de Salud HRI 2015	2015	HRI	HRI
	HN5a.12 AGRRA 5.5 English Protocol	Apr 13	HRI	HRI
	HN5a.13 Protocolo AGRRA V5.5 FINAL Espanol	Apr 13	HRI	HRI
	HN5a.14 2015 DevInfo Database ( <a href="http://data.healthyreefs.org">http://data.healthyreefs.org</a> )	2015	HRI	HRI
	HN5a.15 2015 GeoPortal ( <a href="http://data.healthyreefs.org">http://data.healthyreefs.org</a> )	2015	HRI	HRI
2020	HN5a.16 2018-MAR Report Card	2018	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5a.17 2018-Reporte del Arrecife Mesoamericano	2018	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5a.18 2020-ReportCard	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5a.19 MAR MAP	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5a.20 Línea Base Arrecifes Trujillo	2015	UNAH-CURLA	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5a.21 Caracterización ecológica de Cayos Miskitos	2019	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5a.22 EcoAudit-2020-HN-5a	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>

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**Healthy Reef Initiative**  
**Collection Sheet Eco-Audit 2020 - Honduras**

**Indicator:**

<b>Name:</b>	Economic valuation of coral reefs	<b>Status:</b>	Final
<b>Description:</b>	Economic valuation is a tool that can aid decision-making by quantifying ecosystem services provided by coral reefs in monetary terms. Valuation also provides a tool for evaluating the costs and benefits of management and development options, with an emphasis on long-term benefits, which can help avoid short-sighted development.		
<b>Theme:</b>	Theme 5 – Research, Education and Awareness		

**Ranking Criteria:**

- 5 – A national extent valuation of coral reefs or valuation of 50% of MPAs have been completed  
 4 – A valuation of 2 or more MPAs have been completed  
 3 – A valuation of 1 MPA has been completed  
 2 – Assessments of coral reef economic values are currently being implemented  
 1 – No documented action that meets the criteria to achieve a higher score is available

**Responsible:**

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**Grade:**

<b>Grade:</b>	2020: 4-Good	2016: 4-Good	2014: 4-Good	2011: 4-Good
<b>Result:</b>	<p><b>2020</b> - There is an economic evaluation concerning at least one ecosystem service provided by coral reefs (coastal protection, tourism, or fisheries) in five MPAs: PNIB, MNMACC, PNJK, PNPI, and RVSBT.</p> <p><b>2016</b> - A copy of the UC Davis Valuation of the Natural Resources of the Bay Islands has been acquired. The decree that creates the Cayos Cochinos Marine Natural Monument establishes a cost per square meter of coral reefs.</p> <p><b>2014</b> - The PNUMA has carried out an economic valuation of the natural resources contained within the Jeannette Kawas National Park, which also contains reefs within its marine portion (HN5b.3).</p> <p><b>2011</b> - An economic valuation study was implemented for the Bay Islands by the University of California, Davis. HRI and WRI's GIS analysis found that the reefs in the Bay Islands comprise nearly 80% of the country's coral reefs and includes 3 MPAs (Guanaja, Utila and Roatan), and thus ranks a 4.</p>			

**Observations:**

<b>Observations:</b>	<p><b>2020</b> - A national strategy to evaluate the value of coral reefs is still missing, but some advances have been done to evaluating tourism economic value in Bay Islands (HN5b.1) and Tela Bay (HN5b.9), coastal protection (HN5b.3) and fisheries in Tela Bay (HN5b.7), and a total cost of the loss of coral reefs in Cayos Cochinos (HN5b.4). A summary table is presented (HN5b.11). Moreover, there is a publication highlighting the importance of artisanal fisheries for the national economy (HN5b.6).</p> <p><b>2016</b> - A copy of the UC Davis Valuation of the Natural Resources of the Bay Islands has been acquired (HN5b.1). The decree that creates the Cayos Cochinos Marine Natural Monument establishes a cost per square meter of coral reefs of Lps. 100,000 (approx. US\$ 4,500) per square meter in case of accidentes or direct impacts. Resolution 868-2008, which authorises the renewal of the Environmental License to the Mahogany Bay Cruise Ship Port project, serves as a basis for the creation of an environmental fee of US\$ 80,000 per year to be paid to the Government of Honduras for damages to the reef caused by the dredging carried out during this project.</p> <p><b>2014</b> - The PNUMA has carried out an economic valuation of the natural resources contained within the Jeannette Kawas National Park, which also contains reefs within its marine portion (HN5b.3, Pg. 52, Section 3.4).</p>
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**2011** - An economic valuation study "Evaluación de Impactos Ambientales y Socioeconómicos - Programa de Manejo Ambiental de Islas de la Bahía Fase II" was implemented for the Bay of Islands by the University of California, Davis (HN5b.1). It is estimated that tourism contributed \$80.9 million in value-added (net income) to the economy of the islands in 2010. Using a discount rate of 5%, this implies that the present economic value of the environment of the islands is equal to \$1.3 million. This figure represents the present value of the income stream that tourism (based on the reef) contributes to the economy of the Bay of Islands. The study of Cayos Cochinos (HN5b.2), although not an economic valuation, provides some insight into the economic dimensions of MPAs based eco-tourism, analyzing whether or not ecotourism is a viable alternative source of income to Garifuna communities in the Cayos Cochinos MPA.

**Source:**

	Document/File name	Date	Institution	Location
2011	HN5b.1 Evaluación de Impactos Ambientales y Socioeconómicos Programa de Manejo Ambiental de Islas de la Bahía Fase II	Feb-10	University of CA, Davis	University of CA, Davis
	HN5b.2 Ecotourism as Factor Economic Growth Cayos Cochinos	Jan-06	University of Nottingham, England	University of Nottingham, England
2014	HN5b.3 Valoración Económica PNJK	Jul-13	PNUMA	PNUMA
2016	HN5b.4 Acuerdo 640-2005 Reglamento de Creación CC	Jan-06	Instituto Nacional de Conservación y Desarrollo Forestal, Áreas Protegidas y Vida Silvestre	Instituto Nacional de Conservación y Desarrollo Forestal, Áreas Protegidas y Vida
	HN5b.5 Resolución 868-2008	May-08	Secretaría de Recursos Naturales y Ambiente	Secretaría de Recursos Naturales y Ambiente
2020	HN5b.6 Canty et al 2019	2019	CORAL-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5b.7 Diagnóstico socioeconómico Tela	2019	CORAL-Tela	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5b.8 Valoración Económica Servicios Turísticos PNJK	2011	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5b.9 Valoración económica Bahía de Tela	2013	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5b.10 Cordelia Bank fisheries assessment	2013	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5b.11 Ecoaudit-2020-HN-5b	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>

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**Healthy Reef Initiative**  
**Collection Sheet Eco-Audit 2020 - Honduras**
**Indicator:**

<b>Name:</b>	Availability of understandable information on reef condition and threats	<b>Status:</b>	Final
<b>Description:</b>	The public dissemination of information on reef conditions and threats is essential to build an informed electorate that will support stronger reef protection regulations. This indicator measures the extent of these efforts through various media formats.		
<b>Theme:</b>	Theme 5 – Research, Education and Awareness		

**Ranking Criteria:**

5 – Documents presenting scientific findings on coral reef condition and threats geared toward a general audience are widely available (print, television, social media, radio and online)

4 – Documents presenting scientific findings on coral reef condition and threats geared toward a general audience are generally available (3 from the list above)

3 – Documents presenting scientific findings on coral reef condition and threats geared toward a general audience are available (for at least 1 of the above) and more are being developed (strategic plans or outreach)

2 – Scientific findings have been collated and there are plans to develop accessible products from this information

**Responsible:**

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**Grade:**

<b>Grade:</b>	2020: 5-Very Good	2016: 5-Very Good	2014: 5-Very Good	2011: 5-Very Good
<b>Result:</b>	2020, 2016, 2014 & 2011 - Documents presenting scientific findings on coral reef condition and threats geared toward a general audience are widely available in print, on television, radio, online, and through social media, as demonstrated by the documents provided below.			

**Observations:**

<b>Observations:</b>	<p><b>2020</b> - A list of documents (scientific articles, reports, thesis, posters, education materials, newsletters, videos) on coral reef condition, threats, conservation actions, and associated ecosystems is presented in HN5c.76.</p> <p><b>2016</b> - HRI has published the 2015 Report Card on the Health of the Mesoamerican Reef (HN 5c.9 &amp; 10). It also created, in collaboration with ILCP and CEM, a public awareness campaign about the importance of fish refuge areas/no-take-zones. SERNA and DiBIO published a report titled the Environmental State of the Bay Islands (HN6c.16).</p> <p><b>2014</b> - The Utila Center for Marine Ecology (UCME) publishes an informative magazine every three months aimed at informing artisanal fishers of the Honduran North Coast (HN5c.12 y 13). Healthy Reefs has an online interactive map, a geo-portal (HN5c.10, HN5c.11) and a the Report Card (HN5c.9) which allows an easy observation of the AGRR monitoring results, as well as to see the health of specific coral sites.</p> <p><b>2011</b> - There has been significant progress in Honduras to communicate scientific findings to a wide audience, including HN5c.1, HN5c.5, &amp; HN5c.6, HN5c.7 (in print and online), HN5c.2 (in social media), HN5c.3 (on television), HN5c.4 (online), and HN5c.8 (on the radio). However, participants noted during the Honduras Eco Audit national workshop (La Ceiba at the CREDIA Foundation, October 18, 2011-HN1d.10) that more effort is needed to diversify outreach, make information more accessible to key stakeholders and to track the impact of these efforts.</p>
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**Source:**

	Document/File name	Date	Institution	Location
2011	HN5c.1 Cortar el mangle es desproteger el arrecife (print)	Aug-11	El Heraldo	El Heraldo
	HN5c.2 Roatan Marine Park Facebook Page (Social media)	NA	Roatan Marine Park	Roatan Marine Park
	HN5c.3 Participacion en Canal 10 (TV)	Sep-11	ICF	ICF
	HN5c.4 Healthy Reefs for Healthy People Web Page (web)	NA	HRI	HRI
	HN5c.5 Roatan Marine Park Newsletter April June 2011 (print and web)	May-June 2011	Roatan Marine Park	Roatan Marine Park
	HN5c.6 Report Card for the Mesoamerican Reef 2010 (print and web)	Jul-05	HRI	HRI
	HN5c.7 Report Card for the Mesoamerican Reef 2008 (print and web)	Jun-05	HRI	HRI
	HN5c.8 Canadian Broadcasting Corporation Lionfish Invasion and interview with Ian	Apr-11	Canadian Broadcasting Corporation	Canadian Broadcasting Corporation
2014	HN5c.9 2012 Report Card for the Mesoamerican Reef	Jan-12	Healthy Reefs Initiative	Healthy Reefs Initiative
	HN5c.10 Healthy Reefs GeoPortal	Sep-13	Healthy Reefs Initiative	Healthy Reefs Initiative
	HN5c.11 HRI Interactive Map	Aug-13	Healthy Reefs Initiative	Healthy Reefs Initiative
	HN5c.12 La Ola Vol1 2013	Mar-13	Utila Center for Marine Ecology	Utila Center for Marine Ecology
	HN5d.13 La Ola Vol2 2013	Jun-13	Utila Center for Marine Ecology	Utila Center for Marine Ecology
	HN5c.14 HRI 2015 Report Card English	2015	HRI	HRI

2016	HN5c.15 Reporte de Salud HRI 2015	2015	HRI	HRI
	HN5c.16 2012 Informe del Estado Ambiental de las Islas de la Bahia	2012	Secretaria de Recursos Naturales y Ambiente	Secretaria de Recursos Naturales y Ambiente
	HN5c.17 Afiche Arrecife Vivo 1	2015	HRI	HRI
	HN5c.18 Afiche Arrecife Vivo 2	2015	HRI	HRI
	HN5c.19 Afiche Arrecife Vivo 3	2015	HRI	HRI
	HN5c.20 Afiche Arrecife Vivo 4	2015	HRI	HRI
	HN5c.21 Afiche Arrecife Vivo 5	2015	HRI	HRI
	HN5c.22 PostersNTZ-Langosta	2015	HRI	HRI
	HN5c.23 PostersNTZ-YellowTail	2015	HRI	HRI
	HN5c.24 Afiche Arrecife Vivo Honduras	2015	HRI	HRI
HN5c.25 Video Arrecife Vivo	2015	HRI	HRI	
2020	HN5c.26 Peiffer et al. 2017	2017	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.27 Thesis-ARE-191114	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.28 Carrasco et al. 2020	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.29 Muñoz et al. 2019	2019	Conceptos Arkipelago	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.30 Analisis monitoreos mensuales Los Micos	2019	CORAL-Tela	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.31 McMahan et al. 2020	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.32 Seagrass and Mangrove Turtle-Rock Harbour	2016	BICA-Utilla	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.33 UCR 2020 Reporte	2020	UCR	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.34 MarAlliance Report	2017	MarAlliance	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.35 Protocolo sencillo para el monitoreo de manglares triangulo de Darwin	2017	Fundación Cayos Cochinos	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.36 Mapa de Habitat	2020	FUCSA	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.37 RMP Restoration report	2019	RMP	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.38 SCTL D Roatan	2019	RMP	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.39 Sierra et al. 2020	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.40 Caviedes et al. 2019	2019	CCO	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.41 Caviedes 2020	2020	CCO	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.42 PosterBabosas	2020	CCO	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.43 Caviedes & Carrasco 2015	2015	CCO	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.44 Estudios de MP en PNMIB	2020	BICA-Roatan	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.45 Informe ECOME 1	2013	BICA-Roatan	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.46 Informe ECOME 1-2	2014	BICA-Roatan	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.47 Informe ECOME 1-5	2016	BICA-Roatan	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.48 Integridad ecológica Wuarska	2019	ICF-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.49 Reporte RoaDrift Final	2019	BICA-Roatan	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.50 Caracterización de Pastos Marinos del RVSLG	2018	UNAH-CURLA	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.51 Thomsen 2015	2015	BICA-Roatan	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.52 BICA Magazine	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.53 LaOla(4-2017)	2017	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.54 SIG Smithsonian-Stresors	2017	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.55 Capacitación Fuerza Naval	2020	Fundación Cayos Cochinos	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.56 Currículo curso marino costero	2020	Fundación Cayos Cochinos	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.57 Plan educación ambiental MNMACC	2014	Fundación Cayos Cochinos	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.58 Water manual	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.59 Manual Agua	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.60 Educación Ambiental Omoa	2020	CCO	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.61 Informe Anual 2018 Programa Educación Ambiental BICA	2018	BICA-Roatan	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.62 Informe Anual 2019 Programa Educación Ambiental BICA	2019	BICA-Roatan	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.63 2018-MAR-Report-Card-Web	2018	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.64 2018-ReportCard	2018	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.65 2020-ReportCard	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.66 Línea Base Arrecifes Trujillo	2015	UNAH-CURLA	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.67 Caracterización ecológica de Cayos Miskitos	2019	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.68 Base de Datos AGRRA Trujillo	2015	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.69 RMP-NL-2018-02	2018	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.70 RMP-NL-2018-06	2018	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.71 RMP-NL-2018-08	2018	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.72 RMP-NL-2018-11	2018	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.73 RMP-NL-2019-03	2019	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.74 RMP-NL-2019-07	2019	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.75 RMP-NL-2019-09	2019	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5c.76 EcoAudit-2020-HN-5c	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
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## Indicator:

Name:	Interdisciplinary partnerships combine social and ecological research for management	Status:	Final
Description:	Humans are an integral part of an ecosystem, with social sciences being increasingly integrated into ecological research. This indicator measures the application of these social-ecological integrated studies within the MAR.		
Theme:	Theme 5 – Research, Education and Awareness		

## Ranking Criteria:

- 5 – Findings of integrated social/ecological research have resulted in significant (a change in legislation) management action (can include both formal and informal partnerships)
- 4 – Two or more formal interdisciplinary partnerships exist, which integrate social and ecological research, and have published results
- 3 – One or more informal interdisciplinary partnerships exist, and they are currently implementing joint integrated social/ecological research; or one formal interdisciplinary partnership exists and has published results
- 2 – Groups working on integrated social/ecological research have begun to plan joint work (work plans, research proposals or grant applications.)
- 1 – No documented action that meets the criteria to achieve a higher score is available

## Responsible:

Organization:	Independent consultant
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## Grade:

Grade:	2020: 5-Very Good	2016: 5-Very Good	2014: 3-Fair	2011: 3-Fair
Result:	<p>2020 - Interdisciplinary research has resulted in MPAs declarations in PNMIIB and RVSBT.</p> <p>2016 - CORAL and the National Autonomous University of Honduras (UNAH) have carried out research on the artisanal fisheries of the Bay of Tela. HRI and UNAH/CURLA have signed an MOU and carried out research of the coral reefs in the Bay of Trujillo. HRI, CORAL and UNAH/CURLA created documents that led/supported the creation of the MPA Coraline System of Tela Site of Wildlife Importance.</p> <p>2014 &amp; 2011 - The Future of Reefs in a Changing Environment project is creating informal partnerships with the local groups in the 6 countries they are working in, focusing on integrated social/ecological research.</p>			

## Observations:

Observations:	<p>2020 - The socio-ecological research generated for PNMIIB (HN5d.40) and Tela Bay (HN5d.4, HN5d.6, HN5d.20 &amp; HN5d.36) supported the declaration of both areas as protected (HN5d.16, HN5d.17, HN5d.518, HN5d.19 &amp; HN5d.41). Several interdisciplinary research exists in Caribbean Honduras and is summarized in HN5d.42.</p> <p>2016 - CORAL and the National Autonomous University of Honduras (UNAH) have carried out research on the artisanal fisheries of the Bay of Tela, where social, and biological sciences have been used to inform management decisions for this MPA. These result are published in HN5d.5 y 6. These studies were used as supporting documents in the creation of the Site of Wildlife Importance Tela Bay Coraline System (HN5d.16 &amp; 17), which will soon be elevated to be the Bay of Tela Marine Wildlife Refuge (HN5d.18) HRI's Drysdale also published the findings of the AGRRA monitoring in Tela (HN5d.14), which was used, alongside HN5d.15, written by Rivera and Randazzo, to create HN5d.20. This Official Request was created by many partners and used as a base to create the Formal Agreement requesting it be elevated to Congress (HN5d.19). HRI and UNAH/CURLA signed an MOU (HN5d.12) and carried out research of the coral reefs in the Bay of Trujillo, in order to know the health state of these, little known coral reef ecosystems (HN6d.8 y 11). The National Marine Turtle Conservation Strategy has been published, (HN5d.7), which was done with support from many national research entities. Pg 41 of this document lists 19 civil society entities that participated in the creation of this strategy, that range from NGOs, municipalities, government departments and local committees. The National System of Environmental Impact Assessment (Sistema de Evaluación de Impacto Ambiental (SINEIA)), promotes and fosters collaboration among several entities in order to verify possible environmental impacts of projects (HN6d.9). The results and recommendations are published in the awarder environmental license, as well as the mitigation and compensation measures contract. The National Observatory for Tourism and Climate Change has also been established, which unites several national entities that publish results and research on tourism and climate change in Honduras (HN6d.10). RICA and UNAH/CURLA also signed an MOU (HN5d.12).</p> <p>2014 - FORCE has not presented, to this date, a list of informal or formal signed collaboration agreements in any of its publications (HN5d.4).</p> <p>2011 - A social study of the impact of lobster diving with tanks resulted in the phasing out of the lobster diving industry - which should be implemented by the end of 2012 in Honduras (HN5d.1 &amp; HN5d.2). The University of New Castle has carried out a project titled FORCE: Future of Reefs in a Changing Environment, which combines reef, social and fisheries studies in Caribbean countries, with the aim of "considering people, corals and marine life in finding the best ways to manage Caribbean coral reefs" (HN5d.3, (Utila Cays: Pg. 1; National Level: Pg. 7; Roatan: Pg. 13; Roatan: Pg. 19). Publications and management results are expected in the near future. FORCE does not present a list of these informal partnerships in any of their publications to date.</p>
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## Source:

Document/File name	Date	Institution	Location
HN5d.1 The Spiny Lobster Initiative: A Unique Approach to Fisheries Management in Honduras	NA	Iniciativa Langosta Espinosa	Iniciativa Langosta Espinosa

2011	HN5d.2 Boletín Informativo Honduras Julio-Agosto 2011	NA	Iniciativa Langosta Espinosa	Iniciativa Langosta Espinosa
	HN5d.3 FORCE Project Honduras Socio Study Results	Jun-11	FORCE Project	FORCE Project
2014	HN5d.4 Email Finalized Agreements in	Oct-13	FORCE Project	FORCE Project
2016	HN5d.5 Estudio Social Comunidades Pesqueras Bahía de Tela	Jul-14	CORAL	CORAL
	HN5d.6 Situación de la Pesca Artesanal de Bahía de Tela	Jul-15	Universidad Nacional Autónoma de Honduras	Universidad Nacional Autónoma de Honduras
	HN5d.7 Estrategia Nacional Tortugas Marinas Honduras	May-14	USAID	USAID
	HN5d.8 Reporte Evaluación Arrecifes Trujillo 2015	Jul-15	Universidad Nacional Autónoma de Honduras	Universidad Nacional Autónoma de Honduras
	HN5d.9 Reglamento SINEIA Acuerdo 08-2015	Sep-15	Secretaría de Recursos Naturales Minas y Ambiente	Secretaría de Recursos Naturales Minas y Ambiente
	HN5d.10 Trifolios Observatorio de Turismo	2015	Universidad Nacional Autónoma de Honduras	Universidad Nacional Autónoma de Honduras
	HN5d.11 Base de Datos AGRRA Trujillo Honduras 2015	2015	HRI	HRI
	HN5d.12 Carta de Intenciones CURLA HRI	2015	HRI	HRI
	HN5d.13 Carta de Intenciones CURLA BICA	2015	HRI	HRI
	HN5d.14 Análisis Estado Salud y Línea Base Arrecife Coralino Bahía Tela	2011	HRI	HRI
	HN5d.15 Monitoreo Desove A. palmata	Aug-13	Universidad Nacional Autónoma de Honduras	Universidad Nacional Autónoma de Honduras
	HN5d.16 Ordenanza Municipal SACT	Feb-12	Municipalidad de Tela	Municipalidad de Tela
	HN5d.17 Certificación de Ordenanza Municipal SACT	Mar-12	Municipalidad de Tela	Municipalidad de Tela
	HN5d.18 Decreto Ministerial SIPVS SACT	Feb-14	Instituto Nacional de Conservación y Desarrollo Forestal, Áreas Protegidas y Vida Silvestre	Instituto Nacional de Conservación y Desarrollo Forestal, Áreas Protegidas y Vida Silvestre
	HN5d.19 Acuerdo 007-2015 Bahía de Tela	Mar-15	Instituto Nacional de Conservación y Desarrollo Forestal, Áreas Protegidas y Vida Silvestre	Instituto Nacional de Conservación y Desarrollo Forestal, Áreas Protegidas y Vida Silvestre
	HN5d.20 Solicitud Declaratoria Bahía de Tela	Aug-14	HRI	HRI
2020	HN5d.21 Harborne et al. 2001	2001	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5d.22 Chollett Lineamientos sombras	2015	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5d.23 Chollett et al. 2017	2017	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5d.24 HND RZs plan	2017	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5d.25 Estado del Manejo Integrado Espacios, Recursos Marinos y Costeros en Honduras	2016	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5d.26 Diagnóstico Ecosistemas Marino Costeros y de agua dulce de Honduras	2014	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5d.27 Caviedes et al. 2014	2014	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5d.28 Línea base socioeconómica Omoa y Puerto Cortés	2017	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5d.29 Diagnóstico socioeconómico Tela	2019	CORAL-Tela	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5d.30 Current status of the Yellow tail snapper fishery in Honduras	2017	Fundación Cayos Cochinos	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5d.31 Yalatel y plan de manejo	2018	Fundación Cayos Cochinos	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5d.32 Lineamientos de manejo de Pesquería de Yalatel	2018	Fundación Cayos Cochinos	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5d.33 Wrathall et al 2020	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5d.34 Difusión Monitoreo Pesqueros por Desembarcos Laguna de Los Micos y Quemada	2020	CORAL-Tela	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5d.35 Difusión Monitoreo Pesqueros por Desembarcos en la Bahía de Tela	2020	CORAL-Tela	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5d.36 Revista-UNAH-Sociedad-2018	2018	CORAL-Tela	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5d.37 Revista UNAH Sociedad 2019	2019	ICF-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5d.38 Manning et al 2018	2018	CORAL-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5d.39 Manning et al. 2014	2014	CORAL-Tegucigalpa	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5d.40 Esquema Valade-Grelot	2002	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5d.41 Decreto Legislativo 75-2010 PNMIB	2010	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN5d.42 EcoAudit-2020-HN-5d	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>

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## Indicator:

		Status:	Final
Name:	Voluntary eco-standards program for marine recreation providers		
Description:	Marine recreation providers depend on healthy marine ecosystems, especially reefs. Voluntary programs have been developed to help them be better stewards in their use of the reef for recreation. This indicator measures the degree of participation of the overall marine recreation providers in these programs that promote environmental sustainability		
Theme:	Theme 6 – Sustainability in the Private Sector		

## Ranking Criteria:

5 – A regional or national voluntary eco-standards program for marine recreation providers is developed and more than 50% of all providers are fully participating.  
 4 – A regional or national voluntary eco-standards program for marine recreation providers is developed and more than 25% all providers are fully participating.  
 3 – A regional or national voluntary eco-standards program for marine recreation providers is developed and at least 10% of operators are participating.  
 2 – There has been some effort to create standards and at least 3-4 marine recreation providers are participating (data collection, improved practices or strategic plans)  
 1 – No documented action that meets the criteria to achieve a higher score is available

## Responsible:

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## Grade:

Grade:	2020: 3-Fair	2016: 4-Good	2014: 3-Fair	2011: 2-Poor
Result:	<p><b>2020</b> - 11% of Honduras MAR dive centers are part of Go Blue Bay Islands, and frequent best practices training is promote in Roatan and Utila.</p> <p><b>2016</b> - CORAL continues with these Best Practices within the Go Blue Central America program, and there are now 16 marine recreation providers on Roatan and 7 on Utila that are implementing them. This number equals 49% of all the marine recreation providers, allowing the score to increase to 4.</p> <p><b>2014</b> - CORAL has created a series of Voluntary Standards for Marine Recreation Providers, and also implements Best Practices with the Go Blue Central America Program created by NatGeo. There are currently 12 dive shops (21.4% of the diveshops for the Bay Islands) that are actively participating in their implementation. The Honduran Govt, through the Ministry of Tourism, has created the "Diving Standards", which is based on CORAL's standards, but which does not currently have any means for verifying implementation.</p> <p><b>2011</b> - CORAL has created voluntary standards and there are currently 6 (11% of Bay Islands) dive shops actively participating to adopt these standards.</p>			

## Observations:

Observations:	<p><b>2020</b> - An updated list of Honduras MAR dive centers and their adherence to the Go Blue Bay Islands Program is presented (HN6a.31 &amp; HN6a.32). Several best practices training have been coordinated by RMP, BICA, HRI, Bay Islands Tourism Bureau, CORAL and Go Blue Bay Islands (HN6a.25-HN6a.30).</p> <p><b>2016</b> - HN6a.10, which is now HN6a.23, is an updated number of dive shops operating in Honduras. This file states that there are 47 operational dive shops and the total number of 23 marine recreation providers that apply the voluntary standards (HN6a.21 &amp; 22), the resulting percentage is 49%, allowing the score to increase to 4. CORAL, alongside Rainforest Alliance, have developed a tool that allows completely measuring the business that adheres to Go Blue Central America (HN6a.16, 17, 18, 19 y 20). This tool is so recent, that it has only been applied to one business (HN6a.15).</p> <p><b>2014</b> - There is now updated information concerning the number of dive shops in the country. According to HN6a.10, there are 62 dive shops in Honduras (35 Roatán, 16 Utila, 3 Guanaja, 2 Tela, 1 La Ceiba, 2 Cayos Cochinos and 2 in Puerto Cortes), for a total of 56 in the Bay Islands. The vast majority of these have received the training, although only 12 (Summary in HN6a.15, based on info from HN6a.11 &amp; HN6a.12) actively participate, which leads to only a 21.4% of participation in the program. Some participate in the CORAL program, while others participate in the GoBlue Central America by NatGeo (HN6a.13), also spearheaded by CORAL.</p>
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**2011** - CORAL created voluntary standards in 2007, and has been working with individual dive shops to adopt these standards (HN6a.1 and HN6a.2). These Voluntary Standards are currently being used to draft a new law to regulate diving in Honduras (HN6a.4). According to CORAL and the Ministry of Tourism (HN6a.3), there are 34 dive centers on the Roatan, 16 on Utila, 5 on Guanaja, 1 in Tela and 1 in Puerto Cortes (Total of 55 for the Bay of Islands, as Tela and Puerto Cortes are not part of the Bay of Islands). Twenty-one of these dive centers have received capacity building workshops to integrate the standards, and 6 dive shops ((6/55=11%) for the Bay Islands) are actively participating (HN6a.5 and HN6a.8). An updated official list of marine recreation providers for all of Honduras is not available. According to Table 39 and 40/p.43-44/HN6a.7, there were 30 dive shops recorded in 2007 for all of Honduras.

**Source:**

	Document/File name	Date	Institution	Location
2011	HN6a.1 Estandares Voluntarios para la Recreacion Marina en el Arrecife Mesoamericano	May-07	CORAL	CORAL
	HN6a.2 Voluntary Standards for Marine Recreation Providers	May-07	CORAL	CORAL
	HN6a.3 Diagnostico sobre la actividad de Buceo en Honduras (Draft)	Sep-11	IHT	IHT
	HN6a.4 Elaboración del Marco Regulatorio para la Actividad de Buceo en Honduras Lineamientos Para la Práctica de Buceo en Honduras (Draft)	Apr-11	IHT	IHT
	HN6a.5 CRLN Workshops Carried Out	Aug-11	CORAL	CORAL
	HN6a.6 Participating Dive Shops	Nov-11	CORAL	CORAL
	HN6a.7 Boletin Estadistico 2004 2008	May-09	IHT	IHT
	HN6a.8 Marine Recreation Providers Environmental Performance Recommendations	Jul-05	CORAL	CORAL
2014	HN6a.9 Normativa Nacional de Buceo	Jun-12	IHT	IHT
	HN6a.10 List of Dive Shops in Honduras	Aug-13	Roatan Marine Park	Roatan Marine Park
	HN6a.11 Marine Recreation Roatan NatGeo	Aug-13	CORAL	CORAL
	HN6a.12 Marine Recreation Utila NatGeo	Aug-13	CORAL	CORAL
	HN6a.13 Go Blue Central America NatGeo Best Practices	Jun-13	CORAL	CORAL
	HN6a.14 Land Based Adventures Roatan NatGeo	Aug-13	CORAL	CORAL
2016	HN6a.15 Emeraldi Club Operadores Embarcaciones	Nov-15	CORAL	CORAL
	HN6a.16 GBCA Business Members	Nov-15	CORAL	CORAL
	HN6a.17 Master Herramienta GoBlue Alojamientos Lista	Nov-15	CORAL	CORAL
	HN6a.18 Master Herramienta GoBlue Buceo Lista	Nov-15	CORAL	CORAL
	HN6a.19 Master Herramienta GoBlue Operadores Embarcaciones Lista	Nov-15	CORAL	CORAL
	HN6a.20 Master Herramienta GoBlue Restaurantes Lista	Nov-15	CORAL	CORAL
	HN6a.21 GBCA Roatan Marine Recreation	Nov-15	CORAL	CORAL
	HN6a.22 GBCA Utila Marine Recreation	Nov-15	CORAL	CORAL
	HN6a.23 Updated List of Dive Shops in Honduras	2016	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN6a.24 Dive Shops Participating in Go Blue Central America Program	2016	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
2020	HN6a.25 Modulo 1 FINAL Español	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN6a.26 Módulo 2 Final Español	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN6a.27 Modulo 3 Final Español.pdf	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN6a.28 Modulo 4 Final Español.pdf	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN6a.29 GBBI Reporte Final	2018	Go Blue Utila	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN6a.30 RMP Estándares Voluntarios	2020	RMP	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN6a.31 Activities Go Blue Bay Islands	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN6a.32 EcoAudit-2020-HN-6a	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>

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# Healthy Reef Initiative Collection Sheet Eco-Audit 2020 - Honduras

## Indicator:

<b>Name:</b>	Participation of coastal hotels in eco-certification schemes	<b>Status:</b>	Final
<b>Description:</b>	Several eco-certification programs for coastal hotels have been initiated in the MAR area. They have the potential to reduce negative impacts on coastal ecosystems and promote environmental sustainability. This indicator measures the extent of the industry's participation in these programs.		
<b>Theme:</b>	Theme 6 – Sustainability in the Private Sector		

## Ranking Criteria:

- 5 – Over 25% of coastal hotels participate in one of the recognized eco-certification schemes
- 4 – 15 – 24% of hotels participate in eco-certification schemes
- 3 – 5 – 14% of hotels participate in eco-certification schemes
- 2 – Some, but less than 5% of hotels participate in eco-certification schemes
- 1 – No documented action that meets the criteria to achieve a higher score is available

## Responsible:

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## Grade:

<b>Grade:</b>	2020: 3-Fair	2016: 3-Fair	2014: 2-Poor	2011: 1- Very Poor
<b>Result:</b>	<p><b>2020</b> - 18% of coastal hotels listed in Honduras Tips tourism magazine have Go Blue Bay Islands eco-certification. But the precise number of hotels in the Honduras MAR is not known.</p> <p><b>2016</b>- 31 coastal hotels participate in the Go Blue CentralAmerica program, which aims at creating an eco-certification scheme alongside NatGeo.</p> <p><b>2014</b> - 13 coastal hotels participate in the Go Blue CentralAmerica Program, which aims at creating an eco-certification scheme alongside NatGeo.</p> <p><b>2011</b> - No documented action that meets the criteria to achieve a higher score. There has been some effort reported to develop an eco-certification for hotels, but this is still in early stages of development. No Honduran properties are certified by Green Globe.</p>			

## Observations:

<b>Observations:</b>	<p><b>2020</b> - A list of hotels for the main coastal settlements in Honduras MAR was done based on Honduras Tips magazine to estimate a total number, but it is probably underestimated (HN6b.14). The list of Go Blue Bay Islands 2020 was obtained as well (HN6b.13). A summary table is presented (HN6b.14).</p> <p><b>2016</b> - 31 coastal hotels participate in the Go Blue CentralAmerica program, 19 in Roatán (HN6b.8) and 12 on Utila (HN6b.9). Based on the number of coastal hotels stated in HN6b.11, which is 435, 31 hotels represent 7.13% of all coastal hotels in Honduras (based on HN6b.2 &amp; HN6b.5). The Official Tourism Statistics for 2009-2013 are also included (HN6b.10).</p> <p><b>2014</b> -The Ministry of Tourism and CORAL are working to develop an Eco-Certification Program for hotels, and an official note for this in HN6b.1 &amp; HN6b.3. This program is also collaborating with National Geographic Traveler and the Meso American Responsible Tourism Initiative (MARTI) (HN6b.4; HN6b.7), and will showcase Honduras' eco-certified hotels on its website (HN6b.5; HN6b.6). 13 hotels are participating in this program, which is 2.98% of all coastal hotels in Honduras (HN6b.8, based on HN6b.2 &amp; HN6b.5).</p>
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**2011-** The Honduran Institute of Tourism does collect some statistics on the tourism industry, but this information is not up-to-date. According to HN6b.2, the Departments of Cortes, Atlántida, Colon and Bay Islands (Honduras' coastal hotels) represents 435 hotels (Table 32/p.38/HN6b.2).

**Source:**

	Document/File name	Date	Institution	Location
2011	HN6b.1 Sustainable Tourism Initiative Honduras	Oct-11	CORAL	CORAL
	HN6b.2 Boletín Estadístico 2004 2008	May-09	IHT	IHT
	HN6b.3 Oficio 199 GPDP	Nov-11	IHT	IHT
2014	HN6b.4 Go Blue Central America NatGeo Best Practices	Jan-12	IHT	IHT
	HN6b.5 NatGeo Hotel List Utila	Aug-12	CORAL	CORAL
	HN6b.6 NatGeo Hotel List Roatan	Aug-12	CORAL	CORAL
	HN6b.7 News clip on MARTI	Aug-12	IHT	IHT
2016	HN6b.8 GBCA Roatan Hotels and Resorts	Nov-15	CORAL	CORAL
	HN6b.9 GBCA Utila Hotels and Resorts	Nov-15	CORAL	CORAL
	HN6b.10 Boletín de Estadísticas Turísticas 2009-2013	Nov-15	CORAL	CORAL
	HN6b.11 Updated Coastal Hotels Participating in Eco Certification	Dec-16	IHT	IHT
	HN6b.12 Coastal Hotels Participating in Eco Certification	2016	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
2020	HN6b.13 Alojamiento - Go Blue Bay Islands	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN6b.14 EcoAudit-2020-HN-6b	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>

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Healthy Reef Initiative  
Collection Sheet Eco-Audit 2020 - Honduras

## Indicator:

Name:	Adoption of seafood eco labeling programs	Status:	Final
Description:	There are a number of different seafood labeling programs that promote sustainability. The Marine Stewardship Council (MSC) is the most advanced and difficult to achieve. Several local eco-labeling efforts also promote sustainable seafood. This indicator measures progress in developing and adopting these programs in the MAR area.		
Theme:	Theme 6 – Sustainability in the Private Sector		

## Ranking Criteria:

5 – There exists a national seafood eco-labeling program and at least one fishery in the country is certified by the MSC  
 4 – There exists a national seafood eco-labeling program (within the MAR region), and at least one fishery has completed a full MSC assessment  
 3 – Better management practices have been developed and agreed upon for the seafood industry and a lead agency is developing the eco-labeling program  
 2 – Better management practices have been developed, but not agreed upon, or no national lead agency has been identified to develop the eco-labeling program  
 1 – No management practices have been developed, and no national lead agency has been identified to develop the eco-labeling program

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## Grade:

Grade:	2020: 3-Fair	2016: 3-Fair	2014: : 3-Fair	2011: 2-Poor
Result:	<p><b>2020</b> - The Bay Islands Responsible Seafood Guide is implemented by 14 restaurants, 11 in Roatan, and 3 in Utila, and widely spread through education and community outreach programs in the Bay Islands.</p> <p><b>2016</b> - There are 68 restaurants between Roatan and Utila that are implementing the Responsible Seafood Guide, spearheaded by CORAL.</p> <p><b>2014</b> - These efforts must be formalized and taken to the national level, in order to reach a score of 4; as of now, it receives a 3. The efforts have not reached national level, but there are several best practices developed for restaurants; these, between Roatan and Utila have more than 60 restaurants that apply these efforts, which limit species, sizes and closed seasons.</p> <p><b>2011</b> - Better management practices (species seasons, size limits and species to avoid eating) have been developed by NGOs. These have not yet been formally adopted by the government or restaurant associations, etc. These NGOs have been acting as a lead agency - within the Bay Islands. This effort needs to be formalized and expanded nationally to gain a score of 3, as it stands it receives a score of 2.</p>			

## Observations:

Observations:	<p><b>2020</b> - Through the Bay Islands Responsible Seafood Guide, spearheaded by CORAL, better seafood choices are been promoted for retailers, restaurants, and consumers (HN6c.14 &amp; HN6c.15). The Go Blue Bay Islands program in joint efforts with conservation NGOs in Utila and Roatan are spreading the seafood guide information, as well as best practices for visitors (HN6c.16 &amp; HN6c.17). The Caribbean lobster fishery was pre-assessed with MSC standards (HN6c.18). Currently, the MAR project "From the watershed to the reef" is impulsing the MSC assessment for this fishery (HN6c.20).</p> <p><b>2016</b> - There are currently 68 restaurants between Utila and Roatan (HN6c.11 &amp; 13) that have received these trainings on how to use and implement the Responsible Seafood Guide, and these have informally agreed to follow the recommendations established by the program (HN6c.12).</p> <p><b>2014</b> - There are currently 60 restaurants between Utila and Roatan (HN6c.6; HN6c.7 &amp; HN6c.8) that have received these trainings on how to use and implement the Responsible Seafood Guide (HN6c.9), and these have informally agreed to follow the recommendations established by the program (HN6c.10, PG. 2). A formal agreement is being created by the Fisheries Dept (DIGEPESCA).</p> <p><b>2011</b> - A collaborative effort by CORAL, the Bay Islands Conservation Association (BICA Utila), Utila Center for Marine Ecology and the Roatan Marine Park has resulted in the creation of "The Bay Islands Responsible Seafood Guide" (HN6c.1)(some funding was provided by USAID). CORAL's Coral Reef Leadership Network has held workshops with different stakeholder groups to encourage the adaptation of these seafood guidelines (HN6c.2, 3, 4 and 5). There are currently 14 (HN6c.5) restaurants on Utila and 29 on Roatan (HN6c.3) that have received training on the Sustainable Seafood Guide and have informally agreed to follow recommendations established by this program. A formal agreement with these restaurants is currently being developed with the Fisheries Department</p>
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**Source:**

	Document/File name	Date	Institution	Location
2011	HN6c.1 Responsible Seafood Guide	Apr-11	CORAL	CORAL
	HN6c.2 CRLN Workshops Carried Out	Aug-11	CORAL	CORAL
	HN6c.3 List of Participating Restaurants Nov 2011	Nov-11	CORAL	CORAL
	HN6c.4 Tercer Resumen Charlas Seafood Guide	Oct-11	CORAL	CORAL
	HN6c.5 List of Participating Restaurants Utila	Nov-11	UCME	UCME
2014	HN6c.6 Restaurants Roatan NatGeo	Sep-13	Roatan Marine Park	Roatan Marine Park
	HN6c.7 Restaurants Detail Utila RSG Program	Sep-13	CORAL	CORAL
	HN6c.8 Restaurant Detail Roatan RSG Program	Sep-13	CORAL	CORAL
	HN6c.9 RSG Members Roatan June 2013	Jun-13	CORAL	CORAL
	HN6c.10 Go Blue Central America Nat Geo Best Practices	Jun-13	CORAL	CORAL
2016	HN6c.11 RSG Members Roatan	Nov-15	CORAL	CORAL
	HN6c.12 Responsible Seafood Contract MOU RSG	Nov-15	CORAL	CORAL
	HN6c.13 RSG Members Utila	Nov-15	CORAL	CORAL
2020	HN6c.14 Comer - Go Blue Bay Islands	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN6c.15 Bay-Islands-Seafood-Guide.pdf	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN6c.16 Education - Roatan Marine Park	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN6c.17 Guía de Mariscos Responsables en las Islas de la Bahía - Go Blue Bay Islands	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN6c.18 PreAssessment-Lobster	2011	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN6c.19 Seafood Watch Caribbean Spiny Lobster Honduras	2018	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN6c.20 TDR-Langosta-MSC	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN6c.21 Action Plan Honduras Lobster	2012	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>

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**Healthy Reef Initiative**  
**Collection Sheet Eco-Audit 2020 - Honduras**

**Indicator:**

<b>Name:</b>	Government incentives for conservation and sustainable businesses	<b>Status:</b>	Final
<b>Description:</b>	Government tax and other incentives can provide an important stimulus for the private sector to adopt environmentally friendly practices and technologies. This indicator measures the degree to which each government in the MAR area has applied such incentives for conservation		
<b>Theme:</b>	Theme 6 – Sustainability in the Private Sector		

**Ranking Criteria:**

5 – The national or provincial government provides environmental incentives for four of the following: improvements in energy efficiency, improvements in the treatment of wastewater, reductions in waste production or recycling, alternative energy options, the adoption of four-stroke outboard engines and land tax incentives for conservation.

4 – Governments offer incentives for at least three of the above

3 – Governments offer incentives for at least two of the above

2 – Governments offer incentives for at least one of the above

1 – No government incentives were identified

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**Grade:**

<b>Grade:</b>	2020: 5-Very Good	2016: 4-Good	2014: 4-Good	2011: 4-Good
<b>Result:</b>	<b>2020</b> - A new national strategic framework promotes sustainable production and consumption. It encompasses alternative energy options, improvements in the treatment of wastewater, waste reduction, and sustainable tourism.			
<b>Result:</b>	<b>2016</b> - No documents were found that allow for an increase in score.			
<b>Result:</b>	<b>2014 &amp; 2011</b> - Articles were found that state tax breaks for: 1) importing machinery that reduces pollution, 2) renewable energy technology, 3) and tax reductions for private land conservation, conservation of natural resources and reforestation. Thus it achieves a score of 4, as at least 3 examples were provided.			

**Observations:**

<b>Observations:</b>	<p><b>2020</b> - The ONU and Honduras government have elaborated a document with strategic guidelines to promote sustainable production and consumption in five priorities action field: food security, cities, sustainable value chain, tourism, sustainable purchases (HN6d.9 &amp; HN6d.10). Moreover, new laws are being created (HN6d.12) or have been created (HN6d.8 &amp; HN6d.11) to diminish the impact of solid waste.</p> <p><b>2016</b> - No documents were found that would allow an increase in score for this indicator. It should be mentioned that a Decree exists that creates the Bay Islands Free Trade Zone (Zona Libre de Turismo (ZOLITUR)) which covers all 3 bay Islands (HN6d.6) and creates a special no-tax zone that applies to those tourism businesses that operate in the Bay Islands. There also exists the decree that creates a sub account within the Wildlife and Protected Areas Fund called "Protection for the Coastal and Marine Resources of the Bay Islands". This sub account would receive funds from the compensation measures applied to the Mahogany Bay Cruise Ship Terminal. A Catalog of Tourism Projects for Honduras 2014-2015 is also included (HN6d7), which lists all the different projects to be carried out in Honduras.</p>
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**2014 & 2011** - Article 2 (p.2) in the "Ley de Promocion de Energia Electrica con Recursos Renovables" (HN6d.1) removes import fees for individuals that purchase renewable energy technology (to build and operate). The "Ley Forestal y Areas Protegidas" lays out a number of incentives, including tax breaks, to encourage individuals to set aside private lands for conservation and reforestation (Articles 137 p.36 and 151 p.39) (HN6d.2). Article 7 (p.3) of the "Ley de Incentivos al Turismo" also provides tax breaks to projects that promote the conservation of natural resources (HN6d.3). Article 81 (p.46) of the "Ley General del Ambiente" states the removal of import fees for technology that reduces pollution (HN6d.4).

#### Source:

	Document/File name	Date	Institution	Location
2011 & 2014	HN6d.1 Ley de Promocion Energia Electrica con Recursos Renovables	Jun-07	SERNA	SERNA
	HN6d.2 Ley Forestal y Areas Protegidas	Dec-07	Agenda Forestal	Agenda Forestal
	HN6d.3 Ley de Incentivos al Turismo	Dec-98	Congreso Nacional	Congreso Nacional
	HN6d.4 Ley General del Ambiente ART. 81	May-93	Congreso Nacional	Congreso Nacional
2016	HN6d.5 Acuerdo SERNA 1069-2014 FAPVS	Apr-14	SERNA	SERNA
	HN6d.6 Ley de ZOLITUR y Reglamento Regimen Aduanero Fiscal Especial	Jan-07	ZOLITUR	ZOLITUR
	HN6d.7 Catalogo de Proyectos IHT 2015	Apr-15	IHT	IHT
2020	HN6d.8 Ordenanza de Bolsas Utila	2020	FIB	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN6d.9 Noticia MECPS Honduras	2018	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN6d.10 MECPS-Honduras	2018	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN6d.11 Ordenanza Bolsas Plásticas Roatán	2018	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN6d.12 LEY GIR Ultima Versión Revisada en SAPP	2020	DNCC	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>

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Healthy Reef Initiative  
Collection Sheet Eco-Audit 2020 - Honduras

## Indicator:

Name:	Private sector assistance to MPAs	Status:	Final
Description:	Incorporating private sector assistance for local MPAs is an important component in their sustained success. This indicator assesses the degree of local business assistance (financial or in-kind) as reported by the MPA managers		
Theme:	Theme 6 – Sustainability in the Private Sector		

## Ranking Criteria:

5 – At least 50% of marine protected areas have high private sector support  
 4 – At least 50% of marine protected areas have at least moderate private sector support and at least 25% have high private sector support  
 3 – At least 50% of marine protected areas have at least moderate private sector support  
 2 – At least 50% of marine protected areas have at least low private sector support  
 1 – At least 50% of marine protected areas have no private sector support

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## Grade:

Grade:	2020: 2-Poor	2016: 3-Fair	2014: 2-Poor	2011: 2-Poor
Result:	<p>2020 - 55% of MPAs have low private sector support.</p> <p>2016 - An increase in private sector support has been registered for this indicator, as such that only 17% of MPAs receive no support, while a 33% receives low support and 25% receive moderate and high support. As a result, the MPAs in Honduras receive moderate private sector support in an 83% (includes 33% low + 25% moderate + 25% high) and thus ranks 3.</p> <p>2014 - Support for MPAs by the private sector has not changed or improved in Honduras.</p> <p>2011 - The majority of Honduras' MPAs receive no private sector assistance (40%), while the remaining MPAs receive 20% moderate, 20% low, and 20% high level of assistance. As a result, Honduras' MPAs have at least low private sector support of 60% (includes 20% moderate + 20% low + 20% high) and thus ranks 2.</p>			

## Observations:

Observations:	<p>2020 - Information about private sector support was obtained through a survey made to representatives of each MPA in the Honduras MAR. A summary table with this information is presented (HN6e.25). In Roatan, the private sector is generally more supportive of conservation (HN6e.24), but due to the 2020 pandemic, this support has diminished. Interinstitutional committees were created to promote conservation alliance between different sectors (governmental, private and civil) in Guanaja (HN6e.17, HN6e.18 &amp; HN6e.19), Omoa (HN6e.20 &amp; HN6e.21) and Tela (HN6e.23) and can be a tool to increase private sector support.</p> <p>2016 - There has been an increase in private sector support towards MPAs in Honduras. Only a 17% does not receive any private sector support (Islas del Cisne y Rio Plátano), while the remaining receive moderate support (25%) (Islas de la Bahía – Utila, Banco Cordelia y Jeannette Kawas), 33% low (Islas de la Bahía – Guanaja y Punta Izopo), and 25% high (Cayos Cochinos, Cuero y Salado and Roatán). The Government currently does not financially support any protected area in Honduras and, as a result, it allows local NGOs to develop user fees and other self-financing projects in order to support all its activities. As a result, many rely heavily on volunteers and local support, including the private sector. There are several notable examples of private sector support financing marine conservation: Cayos Cochinos Marine Natural Monument and the Fundación Hondureña para la Protección y Conservación de Cayos Cochinos, which manages the park, created by and funded by local businessmen; and the Roatan Marine Park. According to HN6e.8, 9 y 10, this NGO has completed all the requisites to obtain tax deduction status in the US (501c3), which allows them to receive monetary donations that can be deducted from taxes in the US. This has allowed them to increase their membership base (HN6e.11 y 12). They also acquire funds by “selling” dive sites to the private sector, where you can “buy” a dive site and name it allowing to install more and more dive moorings within the area under their management (HN63.13). On Utila, the Iguana Station / Fundación Islas de la Bahía NGO receives some assistance by the private sector (HN6e.14). And also on Utila, the private sector is supporting a “Dive Mooring Project” (HN6e.15). This project is based on the “Utila Reef Fee”, which used to be implemented on the island, but which lost trust due to inadequate management of funds. This new project is run by many private sector entities and CORAL, and is managing the funds in a transparent way, fostering more trust in the entire project.</p>
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**2014 & 2011** - Each MPA was ranked individually by its managing agency during the Honduras Eco Audit national workshop (La Ceiba at the CREDIA Foundation, October 18, 2011-HN6e.1 & HN1d.10). The majority of Honduras' MPAs receive no private sector assistance (40%) (Bay Islands-Guanaja, Isla del Cisne, Parque Nacional Cuyamel Omoa, Rio Platano), while the remaining MPAs receive 20% moderate (Bay Islands-Roatan and Jeannette Kwas), 20% low (Bay Islands-Utila and Punta Izopo), and 20% high level of assistance (Cayos Cochinos and Cuero y Salado). The Government currently does not financially support any protected area in Honduras and, as a result, relies on co-management schemes to establish legally binding partnerships with local entities. This co-management allows local NGOs to legally manage protected areas, developing user fees and other self-financing projects in order to support all its activities. As a result, many rely heavily on volunteers and local support, including the private sector. There are several notable examples of private sector support financing marine conservation: Cayos Cochinos Marine Natural Monument and the Fundación Hondureña para la Protección y Conservación de Cayos Cochinos, which manages the park, created by local businessmen (HN6e.4/p.2); The Roatan Marine Park acquires almost 80% of its operational costs from memberships with the private enterprise and a "voluntary user fee" enforced by the businesses that carry out marine-based tourism (HN6e.3; HN6e.6; HN6e.7); and recently the private sector has helped to finance an assessment and identification of coral reefs in the Bay of Tela (HN6e.2 & HN6e.5). Currently, through a partnership between private enterprises, a local NGO and the local government, a Municipal Ordinance is being

#### Source:

	Document/File name	Date	Institution	Location
2011	HN6e.1 MPA Original Data Collection	Oct-11	HRI	HRI
	HN6e.2 Ordenanza Municipal Tela Draft	Oct-11	Municipalidad de Tela	Municipalidad de Tela
	HN6e.3 Roatan Marine Park Members	Oct-11	Amigos del Parque Marino de Roatan	Amigos del Parque Marino de Roatan
	HN6e.4 Informe Conceptual 2009	Jan-09	Honduras Coral Reef Fund	Honduras Coral Reef
	HN6e.5 Analisis del Estado de Salud y Linea Base del Arrecife Coralino en la Bahía de Tela	Sep-11	HRI	HRI
2014	HN6e.6 RMP 2013 Membership	Sep-13	Amigos del Parque Marino de Roatan	Amigos del Parque Marino de Roatan
	HN6e.7 RMP 2013 Membership Sign	Sep-13	Amigos del Parque Marino de Roatan	Amigos del Parque Marino de Roatan
2016	HN6e.8 RMP 501c3 Taxation Certificate	Mar-15	Amigos del Parque Marino de Roatan	Amigos del Parque Marino de Roatan
	HN6e.9 RMP 501c3 EIN Number	Mar-15	Amigos del Parque Marino de Roatan	Amigos del Parque Marino de Roatan
	HN6e.10 RMP 501c3 Roatan Marine Park International Inc	Mar-15	Amigos del Parque Marino de Roatan	Amigos del Parque Marino de Roatan
	HN6e.11 RMP 2015 Members List	Sep-15	Amigos del Parque Marino de Roatan	Amigos del Parque Marino de Roatan
	HN6e.12 RMP 2015 member contacts	Sep-15	Amigos del Parque Marino de Roatan	Amigos del Parque Marino de Roatan
	HN6e.13 RMP Moorings	Sep-15	Amigos del Parque Marino de Roatan	Amigos del Parque Marino de Roatan
	HN6e.14 Iguana Station Private Sector Involvement	Nov-15	Iguana Research and Breeding Station	Iguana Research and Breeding Station
	HN6e.15 Reporte Proyecto de Boyas de Amarre Utila 2014-2015	Nov-15	CORAL	CORAL
	HN6e.16 MPA 2015 Data Collection	2015	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN6e.17 El fondo ambiental para ZRPS de Guanaja 2015-2018	2015	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
2020	HN6e.18 Reglamento Fondo Ambiental Guanaja	2015	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN6e.19 Sostenibilidad del Fondo Ambiental de ZRP Guanaja	2018	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN6e.20 Ayuda memoria 1er Reunion Comité Omoa y Puerto Cortes	2018	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN6e.21 Ayuda memoria 2da Reunion Comité Omoa y Puerto Cortes	2018	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN6e.22 Sistematización Plataformas Organizativas para Integrar la Red de Alcaldes	2019	CEM	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN6e.23 Ordenanza Municipal sobre Protocolo de Actuación	2018	CORAL-Tela	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN6e.24 RMP Sponsors	2019	RMP	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN6e.25 EcoAudit-2020-HN-6e	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>

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# Healthy Reef Initiative Collection Sheet Eco-Audit 2020 - Honduras

## Indicator:

	<b>Status:</b>	<b>Final</b>
<b>Name:</b>	Mapping of potentially resilient reefs to warming seas / coral bleaching	
<b>Description:</b>	Corals are highly sensitive to changes in temperature, resulting in bleaching. However, some species appear to be more tolerant and some individual corals appear better acclimated as a result of past exposure to stresses. Reefs that are better suited to avoid or tolerate bleaching are termed "resistant." Reefs that are affected but then recover to their original state are termed "resilient." Factors that appear to improve the resilience of a coral reef include minimizing local stressors, good connectivity to unimpacted or resistant reef areas and enabling coral larvae to move in and	
<b>Theme:</b>	Theme 7 – Global Issues	

## Ranking Criteria:

5 – Existence of an accepted regional map that identifies reefs most likely to be resilient and is integrated into two national level plans and into at least 50% of MPA plans in those countries  
 4 – Existence of an accepted regional map that identifies reefs most likely to be resilient and is integrated into at least one national level plan and into at least 25% of MPAs in that country  
 3 – Existence of a draft MAR regional map of reef resilience using a regionally accepted method and is under review  
 2 – National work to develop regionally standardized resilience indicators is underway (data has been collected to identify resilient sites) and has been applied to create a regional map  
 1 – No documented action that meets the criteria to achieve a higher score is available

## Responsible:

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## Grade:

<b>Grade:</b>	2020: 2-Poor	2016: 2-Poor	2014: 2-Poor	2011: 2-Poor
<b>Result:</b>	<b>2020</b> - Several scientific studies are contributing to prioritize the protection of coral reef sites based on the exposure to thermal stress and its acclimatization. Yet, there is not a regional methodology describing coral sites that are resilient to climate change. <b>2016</b> - There is no evidence <b>2014 &amp; 2011</b> - A draft regional map has been developed by TNC (2008/09).			

## Observations:

<b>Observations:</b>	<b>2020</b> - Central America maps of heat stress and coral sensitivity were generated in a USAID 2013 report (HN7a.12). A Caribbean spatiotemporal study of heat stress, bleaching risk, and mortality risk was published recently (HN7a.11). Coral species sensitivity to bleaching and mortality (HN7a.10) and loss of coral reef resilience (HN7a.13) were investigated. A methodology to design coral reefs reserves was tested in Honduras coral reefs (HN7a.7). But, there is not a regional consensus to measure resilience and prioritize the protection of coral reefs that are resilient to climate change.
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**2016** - The aforementioned report was obtained, which was published in 2009 but we had not obtained a copy (HN7a.4). This report shows a map with sites with potential resilience, for all 4 countries, but these maps have not been revised or approved at a regional level (HN7a.5 & 6).

**2014 & 2011** - This work has stalled in the last year or two. A map was produced from the same TNC/WWF/HRI data that was used in the 2008 HRI Report Card (HN7a.1 & HN7a.2/p.2). It combines several indicators into an index of resilience, similar to the index of reef health - although the results were somewhat different. There were questions about the indicators and ranges used but, the discussion/review was never completed. The draft map exists, but no report detailing the indicators, ranges and justifications has been located or approved. A draft Rapid Reef Assessment to Identify Resilient Sites in the Mesoamerican Reef (2009) was also identified (HN7a.3-only the front page is provided as this document is not available for distribution), which identifies bleaching resilient and resistant reefs in the region by examining factors such as live coral cover, coral colony size and age, abundance of bleaching resistant species, reefs that survived previous bleaching events and areas with strong recruitment. The other elements of this project (connectivity and

#### Source:

	Document/File name	Date	Institution	Location
2011 & 2014	HN7a.1 Map potential resilient sites_MAR	2008	TNC	TNC
	HN7a.2 Member's report on activities to ICRI Presented by The Nature Conservancy Reporting period January 2008 – December	2008-9	TNC	TNC
	HN7a.3 Rapid Reef Assessment to identify resilient sites in the Mesoamerican reef (excerpt)	2009	TNC	TNC
2016	HN7a.4 MAR Rapid Reef Assessment 2006	Feb 07	TNC	TNC
	HN7a.5 MAR Reporte RRA Alejandro	Mar 09	TNC	TNC
	HN7a.6 Sitios Resilientes a Blanqueamiento	2006	TNC	TNC
2020	HN7a.7 Chollett et al 2014 Honduras thermal regime reserves	2014	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN7a.8 Factsheet Costas Listas- Resiliencia climatica en comunidades costeras	2018	Fundación Cayos Cochinos	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN7a.9 Navarro 2018	2018	Conceptos Arkipelago	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN7a.10 PosterRivera	2018	Conceptos Arkipelago	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN7a.11 Muñoz et al. 2019	2019	Conceptos Arkipelago	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN7a.12 Vulnerabilidad escenarios CA	2013	Conceptos Arkipelago	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN7a.13 Randazzo et al. 2019.pdf	2019	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>

#### Approval:

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**Healthy Reef Initiative**  
**Collection Sheet Eco-Audit 2020 - Honduras**

**Indicator:**

	<b>Status:</b>	<b>Final</b>
<b>Name:</b>	Engagement in international/regional treaties that support conservation	
<b>Description:</b>	The following international treaties and conventions address solutions to issues relevant to marine conservation in the MAR area: 1982 United Nations Convention on the Law of the Sea, 1986 Convention for the Protection and Development of the Marine Environment of the Wider Caribbean Region, 1983 Protocol Concerning Cooperation in Combating Oil Spills in the Wider Caribbean Region, 1990 Protocol Concerning Specially Protected Areas and Wildlife to the Convention for the Protection and Development of the Marine Environment of the Wider Caribbean Region, 2010 Protocol Concerning Pollution from Land-Based Sources and Activities, 1971 Convention on Wetlands of International Importance Especially as Waterfowl Habitat, 1992 United Nations Framework Convention on Climate Change, 1992 Convention on Biological Diversity, and 1973 Convention on International Trade in Endangered Species of Wild Fauna and Flora. This indicator measures the number of ratifications for these treaties.	
<b>Theme:</b>	Theme 7 – Global Issues	

**Ranking Criteria:**

- 5 – At least 95% and higher score
- 4 – Score of at least 85%
- 3 – Score of at least 75%
- 2 – Score of at least 65%
- 1 – Score less than 64%

**Responsible:**

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**Grade:**

<b>Grade:</b>	2020: 5-Very Good	2016: 1-Very Poor	2014: 1-Very Poor	2011: 1-Very Poor
<b>Result:</b>	2020 - Honduras is part of 100% of the treaties that support coral reef conservation.			
	2016 - Score remains the same, as no protocols have been ratified.			
	2014 & 2011 - Honduras has ratified 56% of the international/regional treaties that support reef conservation.			

**Observations:**

<b>Observations:</b>	<p><b>2020</b> - The Convention for the Protection and Development of the Marine Environment of the Wider Caribbean Region and its Protocols: Oil Spills Protocol, LBS Protocol, and SPAW Protocol has been ratified in 2018 (HN7b.17). A summary table of the treaties that support coral reef conservation and Honduras is part is presented (HN7b.18).</p> <p><b>2016</b> - According to HN7b.11, Ex-President Pepe Lobo accepted and approved the following protocols to be sent to National Congress for final approval: Convention for the Protection and Development of the Marine Environment of the Wider Caribbean Region (HN7b.3) and its Protocols: Oil Spills Protocol (HN7b.10), LBS Protocol (HN7b.5) &amp; SPAW Protocol (HN7b.4). According to meetings and talks with Marina Mercante and DiBIO (HN7b.13, 14 y 15), the notice was then lost or misplaced and was not sent to Congress. With support from CORAL Marina Mercante, DiBIO and HRI (HN7b.12) this not was found remade and sent to National Congress on December 2015.</p>
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**2014 & 2011** - Honduras has ratified 5 of the 9 International treaties most relevant to reef management. A noticeable gap is the failure of Honduras to commit to the Convention for the Protection and Development of the Marine Environment of the Wider Caribbean Region (HN7b.3) and its Protocols: Oil Spills Protocol (HN7b.10), LBS Protocol (HN7b.5) & SPAW Protocol (HN7b.4), as detailed in HN7b.1, and verified by other documents listed below. Honduras has ratified the United Nations Convention on the Law of the Sea (HN7b.2), the RAMSAR Convention (HN7b.6), the UNFCCC (HN7b.7), the Convention on Biological Diversity (HN7b.8) and the CITES Convention (HN7b.9).

**Source:**

	Document/File name	Date	Institution	Location
2011 & 2014	HN7b.1 Country Comparisons International Treaties Most Relevant to Reef Management	Oct-11	HRI	HRI
	HN7b.2 Status of the United Nations Convention on the Law of the Sea	Sep-11	United Nations Convention on the Law of the Sea	United Nations Convention on the Law
	HN7b.3 Convention for the Protection and Development of the Marine Environment of the Wider Caribbean Region	Jun-05	Caribbean Environment Programme	Caribbean Environment Programme
	HN7b.4 SPAW Ratification Map	Jun-00	Caribbean Environment Programme	Caribbean Environment Programme
	HN7b.5 LBS Protocol Ratification Map	Oct-10	Caribbean Environment Programme	Caribbean Environment Programme
	HN7b.6 RAMSAR Ratification List	Feb-71	Ramsar	Ramsar
	HN7b.7 UNFCC Ratification List	Mar-94	UNFCC	UNFCC
	HN7b.8 Convention on Biological Diversity Ratification List	Sep-03	CBD	CBD
	HN7b.9 CITES Ratification List	Jul-74	CITES	CITES
	HN7b.10 Oil Spills Protocol	Jun-05	Caribbean Environment Programme	Caribbean Environment Programme
2016	HN7b.11 Acuerdos Medio Marino del Gran Caribe Firmados por Pepe Lobo	Feb-14	Secretaria de Relaciones Exteriores y Cooperación Internacional de la República de Honduras	Secretaria de Relaciones Exteriores y Cooperación Internacional de la
	HN7b.12 Acuerdos Ingresados al Congreso Nacional Enero 2015	Jan-15	Secretaria de Agricultura y Ganadería	Secretaria de Agricultura y Ganadería
	HN7b.13 Cartas Varias Cartagena	Jun-15	HRI	HRI
	HN7b.14 Reunion con Marina Mercante	Aug-15	HRI	HRI
	HN7b.15 Avances Convenio Cartagena Ago 25	Aug-15	HRI	HRI
	HN7b.16 Convenio Cartagena a Congreso Nacional	Dec-15	HRI	HRI
2020	HN7b.17 Decreto 9-2018 Convenio de Cartagena	2018	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN7b.18 EcoAudit-2020-HN-7b	2020	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>

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Healthy Reef Initiative  
Collection Sheet Eco-Audit 2020 - Honduras

## Indicator:

	<b>Status:</b>	<b>Final</b>
<b>Name:</b>	Adopt and expand a reward system for carbon sequestration and encourage a reduction in hydrocarbon extraction and dependency while promoting the use of alternative renewable energy sources.	
<b>Description:</b>	Justification-As human populations grow, so do the resource demands imposed on ecosystems. The environmental impacts of anthropogenic actions, which are processes or materials derived from human activities, are becoming more apparent. This indicator measures the application and progress of an incentive program of ecosystem services for carbon sequestration.	
<b>Theme:</b>	Theme 7 – Global Issues	

## Ranking Criteria:

5 – An incentive program of ecosystem services for carbon sequestration exists with X % of the MAR land area  
 4 – An incentive program of ecosystem services for carbon sequestration exists with X % of the MAR land area  
 3 – An incentive program of ecosystem services for carbon sequestration does exist but is not being applied  
 2 – There are plans to develop an incentive program of ecosystem services for carbon sequestration  
 1 – No documented action that meets the criteria to achieve a higher score is available

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## Grade:

<b>Grade:</b>	2020: 3-Fair	2016: 2-Poor	2014: 2-Poor	2011: NA
<b>Result:</b>	2020 - Carbon sequestration program exists but their application is weak.			
	2016 - No document was found that shows that this incentive programs exists and is underway.			
	2014 - A carbon sequestration project is slowly being developed , based on forests and mangroves, but does not exist yet.			
	2011 - This indicator had not been created when the 2011 Eco Audit was carried out.			

## Observations:

<b>Observations:</b>	2020 - There are programs related to carbon sequestration, such as REDD+ (HN7c.6), and particularly, blue carbon programs (HN7c.7). There is even a manual to measure the blue carbon for all Central American countries (HN7c.8).
	2016 - The only document found is(HN7c.5) where a CC adaptation plan is created for the Zona Especia Marina Sandy Bay West End, within the Bay Islands National Marine Park.
	2014 - Methodologies to evaluate the potential of blue carbon sequestration in the Bay Islands and PNJK are being studied. There is a national protocol to monitor the sequestration of carbon in plots under the REDD+ methodology (HN7c.4). This also includes the mapping of randomly selected plots, which also includes coastal areas (HN7c.1; HN7c.2; HN7c.3).
	2011 - This indicator had not been created when the 2011 Eco Audit was carried out.

## Source:

Document/File name	Date	Institution	Location
HN7c.1 Capas de Captura de Carbono en Honduras	Aug-13	Secretaria de Recursos Naturales y Ambiente	Secretaria de Recursos Naturales y Ambiente

2014	HN7c.2 Capas de Potencialidades Forestales en Honduras	Aug-13	Secretaria de Recursos Naturales y Ambiente	Secretaria de Recursos Naturales y Ambiente
	HN7c.3 Capas Mitigacion Actividades Forestales y Agroforestales	Aug-13	Secretaria de Recursos Naturales y Ambiente	Secretaria de Recursos Naturales y Ambiente
	HN7c.4 Monitoreo Forestal en el Contexto de REDD+ Honduras	NA	Instituto Nacional de Conservacion y Desarrollo Forestal y Vida Silvestre	Instituto Nacional de Conservacion y Desarrollo Forestal y Vida Silvestre
2016	HN7c.5 Plan de Adaptacion CC ZPEM SBWE	Oct-12	USAID	USAID
2020	HN7c.6 Agenda Climática	2017	DNCC	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN7c.7 PNA	2018	DNCC	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN7c.8 Carbono Azul MiAmbiente	2019	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>
	HN7c.9 Cifuentes et al 2018	2018	HRI	<a href="http://www.healthyreefs.org">www.healthyreefs.org</a>

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