



Implementing the Strategic Action Programme for the South China Sea and Gulf of Thailand (SCS SAP Project)

First Meeting of the Regional Working Group on Coral Reefs

Teleconference, 2 December 2021

EVALUATION OF SAP IMPLEMENTATIONS OF CORAL REEF FOCAL AREA DURING 2008-2021



UNOPS

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1. INTRODUCTION

OUTCOME 1.2: 110,430 HA OF CORAL REEF AT 46 PRIORITY SITES MANAGED SUSTAINABLY

One of the anticipated outputs from the UNEP/GEF Project entitled “*Reversing Environmental Degradation Trends in the South China Sea and Gulf of Thailand*” is an up-dated Strategic Action Programme, and the document contains the final text as approved by all countries during the 8th meeting of the Project Steering Committee in Hanoi, Viet Nam, August 2008. It was anticipated that the countries would commence implementation of the envisaged actions in 2008/2009 in parallel with the process in seeking further support from GEF for the SAP implementation.

The UNEP project document for “*Implementing the Strategic Action Programme for the South China Sea and Gulf of Thailand*” adopted by the GEF Secretariat 2 November 2016 (GEF ID 5538) to assist countries in meeting the targets of the approved Strategic Action Programme (SAP) for the marine and coastal environment of the South China Sea through implementation of the National Action Plans in support of the SAP, and strengthening regional co-ordination for SCS SAP implementation.

Regarding SAP implementation for the coral reef focal area, actions proposed under this sub-component are designed to promote good environmental governance, relevant national legislative and institutional reforms and sustainable management of coral reef ecosystems. The key anticipated outcome is 110,430 ha of coral reef at 46 priority sites managed sustainably, (excluding Malaysia which is not participating in the SCS SAP project) including a reduction in the decadal rate of degradation in live coral cover from 16 to 5 percent. At the national and coral reef site levels, activities will include: supporting building management capacity (number/levels human resources, facilities and equipment, and sustainable financing mechanisms) for 46 coral reef sites; improving management approaches (integrated, community-based, multiple use) at 46 coral reef sites; developing management tools (licensing and permit systems, seasonal closures, zoning) in support of legal and regulatory reforms to address key threats at priority sites; and establishing mechanisms for monitoring management, ecological and socio-economic indicators at 46 coral reef sites.

As indicated in the adopted project document, in preparation for implementation of the coral reef activities of the SAP, comprehensive site characterization information and data were compiled to establish detailed baselines for the 46 coral reef sites identified as priority locations for management within the framework of SAP implementation. These site characterisations contain geographical coordinates, information on the physical environment, environmental state information, socio-economic and resource use information, biological data and information on the status of existing management at these sites (Annex 1). It is noted that the process in selecting these 46 sites was adopted by the Regional Science and Technical Committee (RTRC) quite early in 2002. The RTRC urged the National Technical Working Groups (NTWG), and national committees in each country to review the data and information collated during the preparatory phase of the project, and to regularly provide updated data and information, particularly in relation to data source. The Regional Working Group (RWG) on Coral Reefs proceeded to finalise data sets, cluster analyses and ranking procedures according to their significance in terms of biological diversity, threats, and transboundary importance via a series of RWG meetings. These outputs were reported for reviews of the RTRC and then proposed for consideration and adoption of the Project Steering Committee (PSC). Ultimately, decisions were taken, both at the national and regional levels, by an appropriately constituted body having authority and responsibility for policy level decision-making: the PSC and Inter-Ministry Committees. Three among 46 coral reef sites were recommended by RTRC and then selected by the Project Steering Committee in 2004 for implementation during the course of SCS Project, including: Belitung (Indonesia), Masinloc (Philippines) and Koh Chang (Thailand). In addition, Ninh Hai (Vietnam) was selected for implementation under GEF/MSP mechanism (2010-2014).

This evaluation which will be further developed into a publication in 2022 provides evidences on proactive contribution of the participating countries in implementing the SAP and supports to estimate their co-finance for environment management in the SCS during last decade. The reviews of past activities and outputs would be helpful for seeking the gaps which shall be addressed in implementing the SCS-SAP project in 2022-2023. It is noted that the targets on coral reefs of SCS SAP Project were adjusted to be 110,430 ha of coral reef at 46 priority sites managed sustainably as the whole, taking account of no participation of Malaysia in the SCS SAP Project.

Table 1. Management status of coral reef sites in the South China Sea (based on SAP)

Country & Site Name	Area (ha)	Live Coral Cover (%)	Management legal status	Area under Management (ha)
Cambodia	2,808			293
Koh Kong archipelago	73	47	Fisheries Management Area (FMA)	
Koh Sdach archipelago	529	29	Proposed MPA	
Koh Rong archipelago	468	23	Proposed MPA	
Koh Takiev archipelago	293	58	National Park	293
Koh Tang archipelago	439	38	FMA	
Prek Ampil	953	53	FMA	
Koh Pouh archipelago	53	41	FMA	
Indonesia	39,286			12,511
Anambas	6,255	52	Marine Management Area (MMA)	6,255
Bangka	2,934	37	MMA	2,934
Belitung	2,271	52	MMA	2,271
Karimata	1,041	53	Marine Reserve	1,041
Senayang Lingga	4,735	37		
Barelang dan Bintan	6,145	44		
Natuna	15,905	31		
Philippines	464,000			2,390
Batanes	2,050	55	Protected Land/Seascape	40
Bolinao/Lingayen Gulf	9,560	40	Municipal Coastal Development Plans & National Park	750
Masinloc, Zambales	2,000	31	Protected Land/Seascape & Fish Sanctuary	120
Batangas Bay, Maricaban Strait	100	52	Marine Tourism Reserve	80
Puerto Galera, Mindoro	48	22	Man & Biosphere Reserve	20
Calamianes Group of Islands	18,200	29		300
El Nido, Palawan	4,250	21	Marine Park	1,000
Port Barton	454	38.2		80
Balabac	2500		Environmental Critical Protection Zone	
Thailand	90,000			54,000
Mu Koh Chumporn	7,790	55	National Park	7,360
Mu Koh Chang	18,670	40	Marine National Park	11,780
Mu Koh Ang Thong	5,110	55	Marine National Park	5,110
Mu Koh Samui	38,990	40	Marine National Park	22,770
Mu Koh Samet	4,200	35	Marine National Park	3,240
Sichang Group	760	20	None	0
Sattaheep Group	1,670	33	Navy Control Area	1,320
Lan and Phai Group	3,910	18	Navy Control Area	1,200
Chao Lao	860	30	None	0
Prachuab	2,450	40	Marine National Park	270
Koh Tao Group	2,300	45	None	0
Song Khla	1,200	20	None	0
Koh Kra	670	40	None	0
Losin	950	40	Navy Control Area	950
Viet Nam	110,000			2,270
Cu Lao Cham	200	34	MPA	100
Nha Trang bay	570	26	MPA	100

Country & Site Name	Area (ha)	Live Coral Cover (%)	Management legal status	Area under Management (ha)
Con Dao	1,000	23	National Park	1,000
Phu Quoc	600	42	Proposed MPA	0
Ninh Hai	1,070	37	Proposed MPA & Community -based Management	1,070
Ca Na bay	2,270	41	Proposed MPA	0
Ha Long - Cat Ba	N/A	43	World Heritage & National Park	No Available
Hai Van - Son Tra	N/A	51	Proposed MPA	0
Bach Long Vi	N/A	22	Proposed MPA	0

Table 2. Outcome 1.2: outputs, sites and targets for the management of coral reefs

Outputs	Cambodia	Indonesia	Philippines	Thailand	Viet Nam	TOTAL
1.2.1 Management capacity built for 46 coral reef sites	Koh Kong archipelago Koh Sdach archipelago Koh Rong archipelago Koh Takiev archipelago Koh Tang archipelago Prek Ampil Koh Pouh archipelago	Anambas Bangka Belitung Karimata Senayang Lingga Barelang dan Bintan Natuna	Batanes Bolinao/Lingayen Gulf Masinloc, Zambales Batangas Bay, Maricaban Strait Puerto Galera, Mindoro Calamianes Group of Islands El Nido, Palawan Port Barton Balabac	Mu Koh Chumpom Mu Koh Chang Mu Koh Ang Thong Mu Koh Samui Mu Koh Samet Sichang Group Sattaheep Group Lan and Phai Group Chao Lao Prachuab Koh Tao Group Song Khla Koh Kra Losin	Cu Lao Cham Nha Trang bay Con Dao Phu Quoc Ninh Hai Ca Na bay Ha Long - Cat Ba Hai Van - Son Tra Bach Long Vi	46 sites
1.2.2 Management approaches and policy, legal & institutional reforms (integrated, community-based, multiple use) improved at 46 coral reef sites						
1.2.3 Management tools (licensing and permit systems, seasonal closures, zoning) developed and utilized to address key threats at priority sites						
1.2.4 Established mechanism for the monitoring of management, ecological and socio-economic indicators at 46 sites						
Total coral reef area in the South China Sea (ha)	2,808	39,300	464,000	90,000	110,000	706,108
Total coral reef area of the 46 target sites	2,808	39,300	36,700	89,530	5,710	174,048
Coral reef area to be supported in SCS SAP project	2,260	18,100	12,500	72,000	5,570	110,430

2. STATUS OF SAP IMPLEMENTATION AT THE NATIONAL LEVEL

2.1. CAMBODIA

Coral reef targets in Cambodia based on 2008 SAP

As indicated in the project which was approved for SAP implementation, 7 coral reef sites were proposed for Cambodia as seen in the table below with the total target area around 2,260 ha.

Table 3. Cambodia - Proposed coral reef sites and targets from 2008 SAP

Country & site name	Total coral reef area (ha)	Area under management (2008)	SAP Target for management
Koh Kong archipelago	73	0	<i>No specific site by site targets available in the SAP</i>
Koh Sdach archipelago	529	0	
Koh Rong archipelago	468	0	
Koh Takiev archipelago	293	293	
Koh Tang archipelago	439	0	
Prek Ampil	953	0	
Koh Pouh archipelago	53	0	2,260
TOTAL CAMBODIA	2,808	293	

Summary of activities and outputs of the period 2008-2021

Table 4. Cambodia - Changes in management and restoration of key agreed sites since 2008

	Koh Kong
Improvement of site management	<i>Is there any new management plan or regulation established at the site. YES/NO? Mention type and year established.</i> <i>Who is responsible for day-to-day management of the site? Mention number or persons.</i> <i>Is management and enforcement adequate/weak/lacking?</i>
Participation engagement	<i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use, YES/NO? If yes, describe</i>
Rehabilitation	<i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO? If yes, describe actions and number of hectares rehabilitated.</i>
Monitoring and trends of changes	<i>Has the site been monitored? YES/NO If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>
National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO? If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>
Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i>

	<ul style="list-style-type: none"> Replace by another site or cancel: Please provide justifications
	Koh Sdach
Improvement of site management	<p>Is there any new management plan or regulation established at the site, YES/NO? Mention type and year established.</p> <p>Who is responsible for day-today management of the site? Mention number or persons.</p> <p>Is management and enforcement adequate/weak/lacking?</p>
Participation engagement	<p>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO? If yes, describe</p>
Rehabilitation	<p>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO? If yes, describe actions and number of hectares rehabilitated.</p>
Monitoring and trends of changes	<p>Has the site been monitored? YES/NO If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</p>
National initiatives and Projects	<p>Have any national initiatives and/or projects been executed at the site? YES/NO? If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</p>
Fund raising and sustainable financial mechanisms	<p>Please outline budget sources for activities and any mechanism developed to sustain long term funding</p>
Recommendation	<p>Select one of the following recommendations regarding the site:</p> <ul style="list-style-type: none"> Under effective management, no more support needed for the site Further support to implement prior activities in SCS SAP Project (list of priorities) Replace by another site or cancel: Please provide justifications
	Koh Rong
Improvement of site management	<p>Is there any new management plan or regulation established at the site. YES/NO? Mention type and year established.</p> <p>Who is responsible for day-today management of the site? Mention number or persons.</p> <p>Is management and enforcement adequate/weak/lacking?</p>
Participation engagement	<p>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use, YES/NO? If yes, describe</p>
Rehabilitation	<p>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO? If yes, describe actions and number of hectares rehabilitated.</p>
Monitoring and trends of changes	<p>Has the site been monitored? YES/NO If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</p>
National initiatives and Projects	<p>Have any national initiatives and/or projects been executed at the site? YES/NO? If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</p>
Fund raising and sustainable financial mechanisms	<p>Please outline budget sources for activities and any mechanism developed to sustain long term funding</p>
Recommendation	<p>Select one of the following recommendations regarding the site:</p> <ul style="list-style-type: none"> Under effective management, no more support needed for the site Further support to implement prior activities in SCS SAP Project (list of priorities) Replace by another site or cancel: Please provide justifications
	Koh Takiev
Improvement of site management	<p>Is there any new management plan or regulation established at the site, YES/NO? Mention type and year established.</p> <p>Who is responsible for day-today management of the site? Mention number or persons.</p> <p>Is management and enforcement adequate/weak/lacking?</p>

Participation engagement	<i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO? If yes, describe</i>
Rehabilitation	<i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO? If yes, describe actions and number of hectares rehabilitated.</i>
Monitoring and trends of changes	<i>Has the site been monitored? YES/NO If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>
National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO? If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>
Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> <i>• Under effective management, no more support needed for the site</i> <i>• Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>• Replace by another site or cancel: Please provide justifications</i>
Koh Tang	
Improvement of site management	<i>Is there any new management plan or regulation established at the site. YES/NO? Mention type and year established.</i>
	<i>Who is responsible for day-today management of the site? Mention number or persons.</i>
	<i>Is management and enforcement adequate/weak/lacking?</i>
Participation engagement	<i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use, YES/NO? If yes, describe</i>
Rehabilitation	<i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO? If yes, describe actions and number of hectares rehabilitated.</i>
Monitoring and trends of changes	<i>Has the site been monitored? YES/NO If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>
National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO? If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>
Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> <i>• Under effective management, no more support needed for the site</i> <i>• Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>• Replace by another site or cancel: Please provide justifications</i>
Prek Amil	
Improvement of site management	<i>Is there any new management plan or regulation established at the site, YES/NO? Mention type and year established.</i>
	<i>Who is responsible for day-today management of the site? Mention number or persons.</i>
	<i>Is management and enforcement adequate/weak/lacking?</i>
Participation engagement	<i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO? If yes, describe</i>
Rehabilitation	<i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO? If yes, describe actions and number of hectares rehabilitated.</i>
Monitoring and trends of changes	<i>Has the site been monitored? YES/NO If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>

National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO? If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>
Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>Replace by another site or cancel: Please provide justifications</i>
Koh Pouh	
Improvement of site management	<i>Is there any new management plan or regulation established at the site. YES/NO? Mention type and year established.</i>
	<i>Who is responsible for day-to-day management of the site? Mention number or persons.</i>
	<i>Is management and enforcement adequate/weak/lacking?</i>
Participation engagement	<i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use, YES/NO? If yes, describe</i>
Rehabilitation	<i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO? If yes, describe actions and number of hectares rehabilitated.</i>
Monitoring and trends of changes	<i>Has the site been monitored? YES/NO If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>
National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO? If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>
Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>Replace by another site or cancel: Please provide justifications</i>

In addition to the coral reef management at the priority sites of the SAP, additional key achievements towards the SCS SAP outcomes and outputs shall be reported for the period of 2008-2021.

Table 5. Cambodia - Key achievements towards the SCS SAP implementation

SAP Output/Target	Implication at the national level	Details at sites
Outcome 1.2. 2,260 ha of coral reef at 7 priority sites managed sustainably	<i>Total area (ha) of coral reefs were managed sustainably</i>	<i>Site names & area (ha) at each site</i>
1.2.1 Management capacity built for 7 coral reef sites	<i>Number of sites where capacity building was conducted</i>	<i>Site names</i>
1.2.2 Management approaches and policy, legal & institutional reforms (integrated, community-based, multiple use) improved at 7 coral reef sites	<i>Number of sites where management policies and institutional reform were improved</i>	<i>Site names</i>
1.2.3 Management tools (licensing and permit systems, seasonal closures, zoning) developed and utilized to address key threats at priority sites	<i>Number of sites where management tool developed and utilized</i>	<i>Site names</i>
1.2.4 Established mechanism for the monitoring of management, ecological and socio-economic indicators at 7 sites	<i>Number of sites where monitoring was practiced</i>	<i>Evidence of changes (degradation rate at each site, positive/negative)</i>

2.2. INDONESIA

Coral reef targets in Indonesia based on 2008 SAP

As indicated in the project which was approved for SAP implementation, 7 coral reef sites were proposed for Indonesia as seen in the table below with the total target area around 18,500 ha.

Table 6. Indonesia - Proposed coral reef sites and targets from 2008 SAP

Country & site name	Total coral reef area (ha)	Area under management (2008)	SAP Target for management
Anambas	6,255	6,255	<i>No specific site by site targets available in the SAP</i>
Bangka	2,934	2,934	
Belitung	2,271	2,271	
Karimata	1,041	1,041	
Senayang Lingga	4,735	0	
Barelang dan Bintan	6,145	0	
Natuna	15,905	0	
TOTAL INDONESIA	39,286	12,500	18,100

Summary of activities and outputs of the period 2008-2021

Table 7. Indonesia - Changes in management and restoration of key agreed sites, since 2008

	Anambas
Improvement of site management	<i>Is there any new management plan or regulation established at the site, YES/NO? Mention type and year established.</i> <i>Who is responsible for day-to-day management of the site? Mention number or persons.</i> <i>Is management and enforcement adequate/weak/lacking?</i>
Participation engagement	<i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO? If yes, describe</i>
Rehabilitation	<i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO? If yes, describe actions and number of hectares rehabilitated.</i>
Monitoring and trends of changes	<i>Has the site been monitored? YES/NO If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>
National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO? If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>
Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>Replace by another site or cancel: Please provide justifications</i>
	Bangka
	<i>Is there any new management plan or regulation established at the site, YES/NO? Mention type and year established.</i>

Improvement of site management	<p><i>Who is responsible for day-today management of the site?</i> <i>Mention number or persons.</i> <i>Is management and enforcement adequate/weak/lacking?</i></p>
Participation engagement	<p><i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO?</i> <i>If yes, describe</i></p>
Rehabilitation	<p><i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO?</i> <i>If yes, describe actions and number of hectares rehabilitated.</i></p>
Monitoring and trends of changes	<p><i>Has the site been monitored? YES/NO</i> <i>If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i></p>
National initiatives and Projects	<p><i>Have any national initiatives and/or projects been executed at the site? YES/NO?</i> <i>If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i></p>
Fund raising and sustainable financial mechanisms	<p><i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i></p>
Recommendation	<p><i>Select one of the following recommendations regarding the site:</i></p> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>Replace by another site or cancel: Please provide justifications</i>
Beitung	
Improvement of site management	<p><i>Is there any new management plan or regulation established at the site, YES/NO?</i> <i>Mention type and year established.</i></p>
	<p><i>Who is responsible for day-today management of the site?</i> <i>Mention number or persons.</i> <i>Is management and enforcement adequate/weak/lacking?</i></p>
Participation engagement	<p><i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO?</i> <i>If yes, describe</i></p>
Rehabilitation	<p><i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO?</i> <i>If yes, describe actions and number of hectares rehabilitated.</i></p>
Monitoring and trends of changes	<p><i>Has the site been monitored? YES/NO</i> <i>If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i></p>
National initiatives and Projects	<p><i>Have any national initiatives and/or projects been executed at the site? YES/NO?</i> <i>If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i></p>
Fund raising and sustainable financial mechanisms	<p><i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i></p>
Recommendation	<p><i>Select one of the following recommendations regarding the site:</i></p> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>Replace by another site or cancel: Please provide justifications</i>
Karimata	
Improvement of site management	<p><i>Is there any new management plan or regulation established at the site, YES/NO?</i> <i>Mention type and year established.</i></p>
	<p><i>Who is responsible for day-today management of the site?</i> <i>Mention number or persons.</i> <i>Is management and enforcement adequate/weak/lacking?</i></p>
Participation engagement	<p><i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO?</i> <i>If yes, describe</i></p>
Rehabilitation	<p><i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO?</i> <i>If yes, describe actions and number of hectares rehabilitated.</i></p>

Monitoring and trends of changes	<i>Has the site been monitored? YES/NO If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>
National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO? If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>
Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>Replace by another site or cancel: Please provide justifications</i>
Senayang Lingga	
Improvement of site management	<i>Is there any new management plan or regulation established at the site, YES/NO? Mention type and year established.</i>
	<i>Who is responsible for day-today management of the site? Mention number or persons. Is management and enforcement adequate/weak/lacking?</i>
Participation engagement	<i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO? If yes, describe</i>
Rehabilitation	<i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO? If yes, describe actions and number of hectares rehabilitated.</i>
Monitoring and trends of changes	<i>Has the site been monitored? YES/NO If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>
National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO? If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>
Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>Replace by another site or cancel: Please provide justifications</i>
Barelang dan Bintan	
Improvement of site management	<i>Is there any new management plan or regulation established at the site, YES/NO? Mention type and year established.</i>
	<i>Who is responsible for day-today management of the site? Mention number or persons. Is management and enforcement adequate/weak/lacking?</i>
Participation engagement	<i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO? If yes, describe</i>
Rehabilitation	<i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO? If yes, describe actions and number of hectares rehabilitated.</i>
Monitoring and trends of changes	<i>Has the site been monitored? YES/NO If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>
National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO? If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>

Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>Replace by another site or cancel: Please provide justifications</i>
Natuna	
Improvement of site management	<i>Is there any new management plan or regulation established at the site, YES/NO?</i> <i>Mention type and year established.</i> <i>Who is responsible for day-to-day management of the site?</i> <i>Mention number or persons.</i> <i>Is management and enforcement adequate/weak/lacking?</i>
Participation engagement	<i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO?</i> <i>If yes, describe</i>
Rehabilitation	<i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO?</i> <i>If yes, describe actions and number of hectares rehabilitated.</i>
Monitoring and trends of changes	<i>Has the site been monitored? YES/NO</i> <i>If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>
National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO?</i> <i>If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>
Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>Replace by another site or cancel: Please provide justifications</i>

In addition to the coral reef management at the priority sites of the SAP, additional key achievements towards the SCS SAP outcomes and outputs shall be reported for the period of 2008-2021.

Table 8. Indonesia- Key achievements towards the SCS SAP implementation

SAP Output/Target	Implication at the national level	Details at sites
Outcome 1.2. 18,100 ha of coral reef at 7 priority sites managed sustainably	<i>Total area (ha) of coral reefs were managed sustainably</i>	<i>Site names & area (ha) at each site</i>
1.2.1 Management capacity built for 7 coral reef sites	<i>Number of sites where capacity building was conducted</i>	<i>Site names</i>
1.2.2 Management approaches and policy, legal & institutional reforms (integrated, community-based, multiple use) improved at 7 coral reef sites	<i>Number of sites where management policies and institutional reform were improved</i>	<i>Site names</i>
1.2.3 Management tools (licensing and permit systems, seasonal closures, zoning) developed and utilized to address key threats at priority sites	<i>Number of sites where management tool developed and utilized</i>	<i>Site names</i>
1.2.4 Established mechanism for the monitoring of management, ecological and socio-economic indicators at 7 sites	<i>Number of sites where monitoring was practiced</i>	<i>Evidence of changes (degradation rate at each site, positive/negative)</i>

2.3. PHILIPPINES

Coral reef targets in the Philippines based on 2008 SAP

As indicated in the project which was approved for SAP implementation, 9 coral reef sites were proposed for the Philippines as seen in the table below with the total target area around 12,500 ha.

Table 9. Philippines - Proposed coral reef sites and targets from 2008 SAP

Country & site name	Total coral reef area (ha)	Area under management (2008)	SAP Target for management
Batanes	2,050	40	<i>No specific site by site targets available in the SAP</i>
Bolinao/Lingayen Gulf	9,560	750	
Masinloc, Zambales	2,000	120	
Batangas Bay, Maricaban Strait	100	80	
Puerto Galera, Mindoro	48	20	
Calamianes Group of Islands	18,200	300	
El Nido, Palawan	4,250	1,000	
Port Barton	454	80	
Balabac	2500		
TOTAL PHILIPPINES	464,000	2,390	12,500

Summary of activities and outputs of the period 2008-2021

Table 10. Philippines - Changes in management and restoration of key agreed sites, since 2008

	Batanes
Improvement of site management	<p><i>Is there any new management plan or regulation established at the site, YES/NO? Mention type and year established.</i></p> <p><i>Who is responsible for day-to-day management of the site? Mention number or persons.</i></p> <p><i>Is management and enforcement adequate/weak/lacking?</i></p>
Participation engagement	<p><i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO? If yes, describe</i></p>
Rehabilitation	<p><i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO? If yes, describe actions and number of hectares rehabilitated.</i></p>
Monitoring and trends of changes	<p><i>Has the site been monitored? YES/NO If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i></p>
National initiatives and Projects	<p><i>Have any national initiatives and/or projects been executed at the site? YES/NO? If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i></p>
Fund raising and sustainable financial mechanisms	<p><i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i></p>
Recommendation	<p><i>Select one of the following recommendations regarding the site:</i></p> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>Replace by another site or cancel: Please provide justifications</i>

	Bolinao/Lingayen Gulf
Improvement of site management	<i>Is there any new management plan or regulation established at the site, YES/NO? Mention type and year established.</i>
	<i>Who is responsible for day-today management of the site? Mention number or persons.</i>
	<i>Is management and enforcement adequate/weak/lacking?</i>
Participation engagement	<i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO? If yes, describe</i>
Rehabilitation	<i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO? If yes, describe actions and number of hectares rehabilitated.</i>
Monitoring and trends of changes	<i>Has the site been monitored? YES/NO If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>
National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO? If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>
Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>Replace by another site or cancel: Please provide justifications</i>
	Masinloc
Improvement of site management	<i>Is there any new management plan or regulation established at the site, YES/NO? Mention type and year established.</i>
	<i>Who is responsible for day-today management of the site? Mention number or persons.</i>
	<i>Is management and enforcement adequate/weak/lacking?</i>
Participation engagement	<i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO? If yes, describe</i>
Rehabilitation	<i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO? If yes, describe actions and number of hectares rehabilitated.</i>
Monitoring and trends of changes	<i>Has the site been monitored? YES/NO If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>
National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO? If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>
Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>Replace by another site or cancel: Please provide justifications</i>
	Batangan Bay
Improvement of site management	<i>Is there any new management plan or regulation established at the site, YES/NO? Mention type and year established.</i>
	<i>Who is responsible for day-today management of the site? Mention number or persons.</i>
	<i>Is management and enforcement adequate/weak/lacking?</i>
Participation engagement	<i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO? If yes, describe</i>

Rehabilitation	<i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO? If yes, describe actions and number of hectares rehabilitated.</i>
Monitoring and trends of changes	<i>Has the site been monitored? YES/NO If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>
National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO? If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>
Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> • <i>Under effective management, no more support needed for the site</i> • <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> • <i>Replace by another site or cancel: Please provide justifications</i>
Perto Galera	
Improvement of site management	<i>Is there any new management plan or regulation established at the site, YES/NO? Mention type and year established.</i>
	<i>Who is responsible for day-today management of the site? Mention number or persons.</i>
	<i>Is management and enforcement adequate/weak/lacking?</i>
Participation engagement	<i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO? If yes, describe</i>
Rehabilitation	<i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO? If yes, describe actions and number of hectares rehabilitated.</i>
Monitoring and trends of changes	<i>Has the site been monitored? YES/NO If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>
National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO? If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>
Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> • <i>Under effective management, no more support needed for the site</i> • <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> • <i>Replace by another site or cancel: Please provide justifications</i>
Calamianes Group of Islands	
Improvement of site management	<i>Is there any new management plan or regulation established at the site, YES/NO? Mention type and year established.</i>
	<i>Who is responsible for day-today management of the site? Mention number or persons.</i>
	<i>Is management and enforcement adequate/weak/lacking?</i>
Participation engagement	<i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO? If yes, describe</i>
Rehabilitation	<i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO? If yes, describe actions and number of hectares rehabilitated.</i>
Monitoring and trends of changes	<i>Has the site been monitored? YES/NO If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>
National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO? If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>

Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>Replace by another site or cancel: Please provide justifications</i>
	El Nido
Improvement of site management	<i>Is there any new management plan or regulation established at the site, YES/NO?</i> <i>Mention type and year established.</i> <i>Who is responsible for day-today management of the site?</i> <i>Mention number or persons.</i> <i>Is management and enforcement adequate/weak/lacking?</i>
Participation engagement	<i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO?</i> <i>If yes, describe</i>
Rehabilitation	<i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO?</i> <i>If yes, describe actions and number of hectares rehabilitated.</i>
Monitoring and trends of changes	<i>Has the site been monitored? YES/NO</i> <i>If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>
National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO?</i> <i>If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>
Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>Replace by another site or cancel: Please provide justifications</i>
	Port Barton
Improvement of site management	<i>Is there any new management plan or regulation established at the site, YES/NO?</i> <i>Mention type and year established.</i> <i>Who is responsible for day-today management of the site?</i> <i>Mention number or persons.</i> <i>Is management and enforcement adequate/weak/lacking?</i>
Participation engagement	<i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO?</i> <i>If yes, describe</i>
Rehabilitation	<i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO?</i> <i>If yes, describe actions and number of hectares rehabilitated.</i>
Monitoring and trends of changes	<i>Has the site been monitored? YES/NO</i> <i>If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>
National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO?</i> <i>If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>
Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>Replace by another site or cancel: Please provide justifications</i>
	Balabac
	<i>Is there any new management plan or regulation established at the site, YES/NO?</i>

Improvement of site management	<p><i>Mention type and year established.</i></p> <p><i>Who is responsible for day-to-day management of the site?</i></p> <p><i>Mention number or persons.</i></p> <p><i>Is management and enforcement adequate/weak/lacking?</i></p>
Participation engagement	<p><i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO?</i></p> <p><i>If yes, describe</i></p>
Rehabilitation	<p><i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO?</i></p> <p><i>If yes, describe actions and number of hectares rehabilitated.</i></p>
Monitoring and trends of changes	<p><i>Has the site been monitored? YES/NO</i></p> <p><i>If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i></p>
National initiatives and Projects	<p><i>Have any national initiatives and/or projects been executed at the site? YES/NO?</i></p> <p><i>If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i></p>
Fund raising and sustainable financial mechanisms	<p><i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i></p>
Recommendation	<p><i>Select one of the following recommendations regarding the site:</i></p> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>Replace by another site or cancel: Please provide justifications</i>

In addition to the coral reef management at the priority sites of the SAP, additional key achievements towards the SCS SAP outcomes and outputs shall be reported.

Table 11. Philippines - Key achievements towards the SCS SAP implementation

SAP Output/Target	Implication at the national level	Details at sites
Outcome 1.2. 12,500 ha of coral reef at 9 priority sites managed sustainably	<i>Total area (ha) of coral reefs were managed sustainably</i>	<i>Site names & area (ha) at each site</i>
1.2.1 Management capacity built for 9 coral reef sites	<i>Number of sites where capacity building was conducted</i>	<i>Site names</i>
1.2.2 Management approaches and policy, legal & institutional reforms (integrated, community-based, multiple use) improved at 9 coral reef sites	<i>Number of sites where management policies and institutional reform were improved</i>	<i>Site names</i>
1.2.3 Management tools (licensing and permit systems, seasonal closures, zoning) developed and utilized to address key threats at priority sites	<i>Number of sites where management tool developed and utilized</i>	<i>Site names</i>
1.2.4 Established mechanism for the monitoring of management, ecological and socio-economic indicators at 9 sites	<i>Number of sites where monitoring was practiced</i>	<i>Evidence of changes (degradation rate at each site, positive/negative)</i>

2.4. THAILAND

Coral reef targets in Thailand based on 2008 SAP

As indicated in the project which was approved for SAP implementation, 14 coral reef sites were proposed for Thailand as seen in the table below with the total target area around 72,000 ha.

Table 12. Thailand - Proposed coral reef sites and targets from 2008 SAP

Country & site name	Total coral reef area (ha)	Area under management (2008)	SAP Target for management
Mu Koh Chumporn	7,790	7,360	<i>No specific site by site targets available in the SAP</i>
Mu Koh Chang	18,670	11,780	
Mu Koh Ang Thong	5,110	5,110	
Mu Koh Samui	38,990	22,770	
Mu Koh Samet	4,200	3,240	
Sichang Group	760	0	
Sattaheep Group	1,670	1,320	
Lan and Phai Group	3,910	1,200	
Chao Lao	860	0	
Prachuab	2,450	270	
Koh Tao Group	2,300	0	
Song Khla	1,200	0	
Koh Kra	670	0	
Losin	950	950	
TOTAL THAILAND	90,000	54,000	72,000

Summary of activities and outputs of the period 2008-2021

Table 13. Thailand - Changes in management and restoration of key agreed sites, since 2008

	Mu Koh Chumporn
Improvement of site management	<i>Is there any new management plan or regulation established at the site, YES/NO? Mention type and year established.</i> <i>Who is responsible for day-to-day management of the site? Mention number or persons.</i> <i>Is management and enforcement adequate/weak/lacking?</i>
Participation engagement	<i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO? If yes, describe</i>
Rehabilitation	<i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO? If yes, describe actions and number of hectares rehabilitated.</i>
Monitoring and trends of changes	<i>Has the site been monitored? YES/NO If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>
National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO? If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>
Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>Replace by another site or cancel: Please provide justifications</i>
	Mu Koh Chang
	<i>Is there any new management plan or regulation established at the site, YES/NO?</i>

Improvement of site management	<p><i>Mention type and year established.</i></p> <p><i>Who is responsible for day-today management of the site?</i></p> <p><i>Mention number or persons.</i></p> <p><i>Is management and enforcement adequate/weak/lacking?</i></p>
Participation engagement	<p><i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO?</i></p> <p><i>If yes, describe</i></p>
Rehabilitation	<p><i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO?</i></p> <p><i>If yes, describe actions and number of hectares rehabilitated.</i></p>
Monitoring and trends of changes	<p><i>Has the site been monitored? YES/NO</i></p> <p><i>If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i></p>
National initiatives and Projects	<p><i>Have any national initiatives and/or projects been executed at the site? YES/NO?</i></p> <p><i>If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i></p>
Fund raising and sustainable financial mechanisms	<p><i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i></p>
Recommendation	<p><i>Select one of the following recommendations regarding the site:</i></p> <ul style="list-style-type: none"> • <i>Under effective management, no more support needed for the site</i> • <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> • <i>Replace by another site or cancel: Please provide justifications</i>
Mu Koh Ang Thong	
Improvement of site management	<p><i>Is there any new management plan or regulation established at the site, YES/NO?</i></p> <p><i>Mention type and year established.</i></p> <p><i>Who is responsible for day-today management of the site?</i></p> <p><i>Mention number or persons.</i></p> <p><i>Is management and enforcement adequate/weak/lacking?</i></p>
Participation engagement	<p><i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO?</i></p> <p><i>If yes, describe</i></p>
Rehabilitation	<p><i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO?</i></p> <p><i>If yes, describe actions and number of hectares rehabilitated.</i></p>
Monitoring and trends of changes	<p><i>Has the site been monitored? YES/NO</i></p> <p><i>If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i></p>
National initiatives and Projects	<p><i>Have any national initiatives and/or projects been executed at the site? YES/NO?</i></p> <p><i>If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i></p>
Fund raising and sustainable financial mechanisms	<p><i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i></p>
Recommendation	<p><i>Select one of the following recommendations regarding the site:</i></p> <ul style="list-style-type: none"> • <i>Under effective management, no more support needed for the site</i> • <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> • <i>Replace by another site or cancel: Please provide justifications</i>
Mu Koh Samui	
Improvement of site management	<p><i>Is there any new management plan or regulation established at the site, YES/NO?</i></p> <p><i>Mention type and year established.</i></p> <p><i>Who is responsible for day-today management of the site?</i></p> <p><i>Mention number or persons.</i></p> <p><i>Is management and enforcement adequate/weak/lacking?</i></p>
Participation engagement	<p><i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO?</i></p> <p><i>If yes, describe</i></p>
Rehabilitation	<p><i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO?</i></p> <p><i>If yes, describe actions and number of hectares rehabilitated.</i></p>

Monitoring and trends of changes	<i>Has the site been monitored? YES/NO If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>
National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO? If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>
Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>Replace by another site or cancel: Please provide justifications</i>
Mu Koh Samet	
Improvement of site management	<i>Is there any new management plan or regulation established at the site, YES/NO? Mention type and year established.</i>
	<i>Who is responsible for day-today management of the site? Mention number or persons. Is management and enforcement adequate/weak/lacking?</i>
Participation engagement	<i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO? If yes, describe</i>
Rehabilitation	<i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO? If yes, describe actions and number of hectares rehabilitated.</i>
Monitoring and trends of changes	<i>Has the site been monitored? YES/NO If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>
National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO? If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>
Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>Replace by another site or cancel: Please provide justifications</i>
Sichang Group	
Improvement of site management	<i>Is there any new management plan or regulation established at the site, YES/NO? Mention type and year established.</i>
	<i>Who is responsible for day-today management of the site? Mention number or persons. Is management and enforcement adequate/weak/lacking?</i>
Participation engagement	<i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO? If yes, describe</i>
Rehabilitation	<i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO? If yes, describe actions and number of hectares rehabilitated.</i>
Monitoring and trends of changes	<i>Has the site been monitored? YES/NO If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>
National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO? If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>

Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>Replace by another site or cancel: Please provide justifications</i>
	Sattaheep Group
Improvement of site management	<i>Is there any new management plan or regulation established at the site, YES/NO?</i> <i>Mention type and year established.</i> <i>Who is responsible for day-today management of the site?</i> <i>Mention number or persons.</i> <i>Is management and enforcement adequate/weak/lacking?</i>
Participation engagement	<i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO?</i> <i>If yes, describe</i>
Rehabilitation	<i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO?</i> <i>If yes, describe actions and number of hectares rehabilitated.</i>
Monitoring and trends of changes	<i>Has the site been monitored? YES/NO</i> <i>If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>
National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO?</i> <i>If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>
Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>Replace by another site or cancel: Please provide justifications</i>
	Lan and Phai Group
Improvement of site management	<i>Is there any new management plan or regulation established at the site, YES/NO?</i> <i>Mention type and year established.</i> <i>Who is responsible for day-today management of the site?</i> <i>Mention number or persons.</i> <i>Is management and enforcement adequate/weak/lacking?</i>
Participation engagement	<i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO?</i> <i>If yes, describe</i>
Rehabilitation	<i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO?</i> <i>If yes, describe actions and number of hectares rehabilitated.</i>
Monitoring and trends of changes	<i>Has the site been monitored? YES/NO</i> <i>If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>
National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO?</i> <i>If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>
Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>Replace by another site or cancel: Please provide justifications</i>
	Lan and Phai Group
	<i>Is there any new management plan or regulation established at the site, YES/NO?</i>

Improvement of site management	<p><i>Mention type and year established.</i></p> <p><i>Who is responsible for day-today management of the site?</i></p> <p><i>Mention number or persons.</i></p> <p><i>Is management and enforcement adequate/weak/lacking?</i></p>
Participation engagement	<p><i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO?</i></p> <p><i>If yes, describe</i></p>
Rehabilitation	<p><i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO?</i></p> <p><i>If yes, describe actions and number of hectares rehabilitated.</i></p>
Monitoring and trends of changes	<p><i>Has the site been monitored? YES/NO</i></p> <p><i>If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i></p>
National initiatives and Projects	<p><i>Have any national initiatives and/or projects been executed at the site? YES/NO?</i></p> <p><i>If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i></p>
Fund raising and sustainable financial mechanisms	<p><i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i></p>
Recommendation	<p><i>Select one of the following recommendations regarding the site:</i></p> <ul style="list-style-type: none"> • <i>Under effective management, no more support needed for the site</i> • <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> • <i>Replace by another site or cancel: Please provide justifications</i>
Chao Lao	
Improvement of site management	<p><i>Is there any new management plan or regulation established at the site, YES/NO?</i></p> <p><i>Mention type and year established.</i></p> <p><i>Who is responsible for day-today management of the site?</i></p> <p><i>Mention number or persons.</i></p> <p><i>Is management and enforcement adequate/weak/lacking?</i></p>
Participation engagement	<p><i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO?</i></p> <p><i>If yes, describe</i></p>
Rehabilitation	<p><i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO?</i></p> <p><i>If yes, describe actions and number of hectares rehabilitated.</i></p>
Monitoring and trends of changes	<p><i>Has the site been monitored? YES/NO</i></p> <p><i>If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i></p>
National initiatives and Projects	<p><i>Have any national initiatives and/or projects been executed at the site? YES/NO?</i></p> <p><i>If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i></p>
Fund raising and sustainable financial mechanisms	<p><i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i></p>
Recommendation	<p><i>Select one of the following recommendations regarding the site:</i></p> <ul style="list-style-type: none"> • <i>Under effective management, no more support needed for the site</i> • <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> • <i>Replace by another site or cancel: Please provide justifications</i>
Koh Tao Group	
Improvement of site management	<p><i>Is there any new management plan or regulation established at the site, YES/NO?</i></p> <p><i>Mention type and year established.</i></p> <p><i>Who is responsible for day-today management of the site?</i></p> <p><i>Mention number or persons.</i></p> <p><i>Is management and enforcement adequate/weak/lacking?</i></p>
Participation engagement	<p><i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO?</i></p> <p><i>If yes, describe</i></p>
Rehabilitation	<p><i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO?</i></p> <p><i>If yes, describe actions and number of hectares rehabilitated.</i></p>

Monitoring and trends of changes	<i>Has the site been monitored? YES/NO If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>
National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO? If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>
Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>Replace by another site or cancel: Please provide justifications</i>

In addition to the coral reef management at the priority sites of the SAP, additional key achievements towards the SCS SAP outcomes and outputs shall be reported.

Table 14. Thailand - Key achievements towards the SCS SAP implementation

SAP Output/Target	Implication at the national level	Details at sites
Outcome 1.2. 72,000 ha of coral reef at 12 priority sites managed sustainably	<i>Total area (ha) of coral reefs were managed sustainably</i>	<i>Site names & area (ha) at each site</i>
1.2.1 Management capacity built for 14 coral reef sites	<i>Number of sites where capacity building was conducted</i>	<i>Site names</i>
1.2.2 Management approaches and policy, legal & institutional reforms (integrated, community-based, multiple use) improved at 14 coral reef sites	<i>Number of sites where management policies and institutional reform were improved</i>	<i>Site names</i>
1.2.3 Management tools (licensing and permit systems, seasonal closures, zoning) developed and utilized to address key threats at priority sites	<i>Number of sites where management tool developed and utilized</i>	<i>Site names</i>
1.2.4 Established mechanism for the monitoring of management, ecological and socio-economic indicators at 14 sites	<i>Number of sites where monitoring was practiced</i>	<i>Evidence of changes (degradation rate at each site, positive/negative)</i>

2.5. VIET NAM

Coral reef targets in Viet Nam based on 2008 SAP

As indicated in the project which was approved for SAP implementation, 9 coral reef sites were proposed for Viet Nam as seen in the table below with the total target area around 5.710 ha.

Table 15. Viet Nam - Proposed coral reef sites and targets from 2008 SAP

Country & site name	Total coral reef area (ha)	Area under management (2008)	SAP Target for management
Cu Lao Cham	200	100	<i>No specific site by site targets</i>
Nha Trang bay	570	100	
Con Dao	1,000	1,000	

Country & site name	Total coral reef area (ha)	Area under management (2008)	SAP Target for management
Phu Quoc	600	0	available in the SAP
Ninh Hai	1,070	1,070	
Ca Na bay	2,270	0	
Ha Long - Cat Ba	N/A	N/A	
Hai Van - Son Tra	N/A	0	
Bach Long Vi	N/A	0	
TOTAL VIET NAM	110,000	2,270	5,710

Summary of activities and outputs of the period 2008-2021

Table 16. Viet Nam - Changes in management and restoration of key agreed sites, since 2008

	Cu Lao Cham
Improvement of site management	<p><i>Is there any new management plan or regulation established at the site, YES/NO? Mention type and year established.</i></p> <p><i>Who is responsible for day-today management of the site? Mention number or persons.</i></p> <p><i>Is management and enforcement adequate/weak/lacking?</i></p>
Participation engagement	<p><i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO? If yes, describe</i></p>
Rehabilitation	<p><i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO? If yes, describe actions and number of hectares rehabilitated.</i></p>
Monitoring and trends of changes	<p><i>Has the site been monitored? YES/NO</i></p> <p><i>If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i></p>
National initiatives and Projects	<p><i>Have any national initiatives and/or projects been executed at the site? YES/NO? If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i></p>
Fund raising and sustainable financial mechanisms	<p><i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i></p>
Recommendation	<p><i>Select one of the following recommendations regarding the site:</i></p> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>Replace by another site or cancel: Please provide justifications</i>
	Nha Trang Bay
Improvement of site management	<p><i>Is there any new management plan or regulation established at the site, YES/NO? Mention type and year established.</i></p> <p><i>Who is responsible for day-today management of the site? Mention number or persons.</i></p> <p><i>Is management and enforcement adequate/weak/lacking?</i></p>
Participation engagement	<p><i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO? If yes, describe</i></p>
Rehabilitation	<p><i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO? If yes, describe actions and number of hectares rehabilitated.</i></p>
Monitoring and trends of changes	<p><i>Has the site been monitored? YES/NO</i></p> <p><i>If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i></p>

National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO? If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>
Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>Replace by another site or cancel: Please provide justifications</i>
Con Dao	
Improvement of site management	<i>Is there any new management plan or regulation established at the site, YES/NO? Mention type and year established.</i> <i>Who is responsible for day-today management of the site? Mention number or persons.</i> <i>Is management and enforcement adequate/weak/lacking?</i>
Participation engagement	<i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO? If yes, describe</i>
Rehabilitation	<i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO? If yes, describe actions and number of hectares rehabilitated.</i>
Monitoring and trends of changes	<i>Has the site been monitored? YES/NO If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>
National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO? If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>
Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>Replace by another site or cancel: Please provide justifications</i>
Phu Quoc	
Improvement of site management	<i>Is there any new management plan or regulation established at the site, YES/NO? Mention type and year established.</i> <i>Who is responsible for day-today management of the site? Mention number or persons.</i> <i>Is management and enforcement adequate/weak/lacking?</i>
Participation engagement	<i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO? If yes, describe</i>
Rehabilitation	<i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO? If yes, describe actions and number of hectares rehabilitated.</i>
Monitoring and trends of changes	<i>Has the site been monitored? YES/NO If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>
National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO? If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>
Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i>

	<ul style="list-style-type: none"> • <i>Replace by another site or cancel: Please provide justifications</i>
	Ninh Hai
Improvement of site management	<i>Is there any new management plan or regulation established at the site, YES/NO?</i> <i>Mention type and year established.</i>
	<i>Who is responsible for day-today management of the site?</i> <i>Mention number or persons.</i> <i>Is management and enforcement adequate/weak/lacking?</i>
Participation engagement	<i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO?</i> <i>If yes, describe</i>
Rehabilitation	<i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO?</i> <i>If yes, describe actions and number of hectares rehabilitated.</i>
Monitoring and trends of changes	<i>Has the site been monitored? YES/NO</i> <i>If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>
National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO?</i> <i>If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>
Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> • <i>Under effective management, no more support needed for the site</i> • <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> • <i>Replace by another site or cancel: Please provide justifications</i>
	Ca Na Bay
Improvement of site management	<i>Is there any new management plan or regulation established at the site, YES/NO?</i> <i>Mention type and year established.</i>
	<i>Who is responsible for day-today management of the site?</i> <i>Mention number or persons.</i> <i>Is management and enforcement adequate/weak/lacking?</i>
Participation engagement	<i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO?</i> <i>If yes, describe</i>
Rehabilitation	<i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO?</i> <i>If yes, describe actions and number of hectares rehabilitated.</i>
Monitoring and trends of changes	<i>Has the site been monitored? YES/NO</i> <i>If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>
National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO?</i> <i>If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>
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Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> • <i>Under effective management, no more support needed for the site</i> • <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> • <i>Replace by another site or cancel: Please provide justifications</i>
	Ha Long – Cat Ba
Improvement of site management	<i>Is there any new management plan or regulation established at the site, YES/NO?</i> <i>Mention type and year established.</i>
	<i>Who is responsible for day-today management of the site?</i> <i>Mention number or persons.</i> <i>Is management and enforcement adequate/weak/lacking?</i>

Participation engagement	<i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO? If yes, describe</i>
Rehabilitation	<i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO? If yes, describe actions and number of hectares rehabilitated.</i>
Monitoring and trends of changes	<i>Has the site been monitored? YES/NO If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>
National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO? If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>
Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>Replace by another site or cancel: Please provide justifications</i>
Hai Van – Son Tra	
Improvement of site management	<i>Is there any new management plan or regulation established at the site, YES/NO? Mention type and year established.</i>
	<i>Who is responsible for day-today management of the site? Mention number or persons.</i>
	<i>Is management and enforcement adequate/weak/lacking?</i>
Participation engagement	<i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO? If yes, describe</i>
Rehabilitation	<i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO? If yes, describe actions and number of hectares rehabilitated.</i>
Monitoring and trends of changes	<i>Has the site been monitored? YES/NO If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>
National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO? If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>
Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>Replace by another site or cancel: Please provide justifications</i>
Bah Long Vi	
Improvement of site management	<i>Is there any new management plan or regulation established at the site, YES/NO? Mention type and year established.</i>
	<i>Who is responsible for day-today management of the site? Mention number or persons.</i>
	<i>Is management and enforcement adequate/weak/lacking?</i>
Participation engagement	<i>Is there a mechanism to engage participation of communities, private sector, foundations, NGOs in conservation and sustainable use. YES/NO? If yes, describe</i>
Rehabilitation	<i>Have any actions been undertaken for the rehabilitation of coral reefs at the site. YES/NO? If yes, describe actions and number of hectares rehabilitated.</i>
Monitoring and trends of changes	<i>Has the site been monitored? YES/NO If yes, please describe monitoring design (ecological & socio-economic indicators), monitoring practices and trends of changes related to habitat degradation and loss as well as influences to local community</i>

National initiatives and Projects	<i>Have any national initiatives and/or projects been executed at the site? YES/NO? If yes, please mention initiative project, dates executed and budget (if available). Plus any key references, reports on achievements.</i>
Fund raising and sustainable financial mechanisms	<i>Please outline budget sources for activities and any mechanism developed to sustain long term funding</i>
Recommendation	<i>Select one of the following recommendations regarding the site:</i> <ul style="list-style-type: none"> <i>Under effective management, no more support needed for the site</i> <i>Further support to implement prior activities in SCS SAP Project (list of priorities)</i> <i>Replace by another site or cancel: Please provide justifications</i>

In addition to the coral reef management at the priority sites of the SAP, additional key achievements towards the SCS SAP outcomes and outputs shall be reported.

Table 17. Viet Nam - Key achievements towards the SCS SAP implementation

SAP Output/Target	Implication at the national level	Details at sites
Outcome 1.2. 5,700 ha of coral reef at 9 priority sites managed sustainably	<i>Total area (ha) of coral reefs were managed sustainably</i>	<i>Site names & area (ha) at each site</i>
1.2.1 Management capacity built for 9 coral reef sites	<i>Number of sites where capacity building was conducted</i>	<i>Site names</i>
1.2.2 Management approaches and policy, legal & institutional reforms (integrated, community-based, multiple use) improved at 9 coral reef sites	<i>Number of sites where management policies and institutional reform were improved</i>	<i>Site names</i>
1.2.3 Management tools (licensing and permit systems, seasonal closures, zoning) developed and utilized to address key threats at priority sites	<i>Number of sites where management tool developed and utilized</i>	<i>Site names</i>
1.2.4 Established mechanism for the monitoring of management, ecological and socio-economic indicators at 9 sites	<i>Number of sites where monitoring was practiced</i>	<i>Evidence of changes (degradation rate at each site, positive/negative)</i>

ANNEXES

ANNEX 1. DETAILS OF PROPERTIES AND VARIABLES, DATA AND INFORMATION REQUIREMENTS FOR CORAL REEF SITE CHARACTERISATION.

	Parameter	Data & Information needed
Geographic information	Co-ordinates	Latitude & Longitude central position of areas, GPS Boundary or number (min 4) of paired co-ordinates for larger areas; end points for linear strips.
	Area	(Units Km ² or Ha)
Physical Environment	Reef type	Fringing (mainland & island), barrier, atoll, patch, other
		Slope Degrees (tangent)
	Bathymetry	Depth contour
	Climate	Prevailing wind; sea surface temperature, (seasonal mean, max & min); rainfall mean monthly rainfall (mm)
	Current pattern	Seasonal current pattern
	River discharge	Sediment load, quantity of freshwater discharge salinity
	Tidal regime	Range (m)
		Diurnal, semi-diurnal, mixed
	Water quality	Nutrients, total P, N, nitrite, total suspended solids
		Turbidity
Environmental state information		Other parameters as available
	Present status	Live coral cover, dead coral cover, algae, abiotic
		Level of exploitation (indicator species, catch per unit)
	Present threats	Sedimentation
		Destructive fishing (no. of cases, both bombing & poisoning, reported per year)
		Pollution (no. pop'n & distance to the sources of pollutants)
		Crown of Thorns (COT) infestation (density of COT, no. of cases, and infested areas)
		Bleaching (% bleaching of live coral, % of covered)
		Others
	Trends	Increase or decrease of live coral cover
Social & use information	Pressure (threats) – future	Development plan & distance to the coral reef area
	Ownership	Description: Federal, State, Community, private, common property
	Management regime	Description: Land-use planning and coastal zoning, Institutional framework, stakeholder co-ordination, restoration, stakeholder investment, fishery practices
	Current use	Description: Commercial, subsistence, fishing ground, tourism and/or MPA
	Traditional use	Description of
	Potential use	Tourism and MPA (sustainable use)
	Significance/national importance	Use designation in national/state master plans
Biological data	Species diversity	No. of species and coverage of hard coral
		No. of species and coverage of soft coral
		Molluscs – species and density (no. per m ²)
		Crustacean- species and density (no. per m ²)
		Fish – coral reef fish, species abundance
		Fish – Transient for breeding, species abundance
		Mammals
		Reptiles
		Echinoderm

	Parameter	Data & Information needed
		No. species of algae
		Other species
		Diversity index
	Genetic diversity	
	SCS Endemic species	List species and abundance
	Endangered or threatened species (IUCN criteria)	List species and abundance
	Source & sink of larvae	Location & types (breeding ground), density of larvae
	Migratory species	List species and abundance
	Ecosystem diversity	Description of complexity of habitats
	Interaction with other ecosystems	Description of associated ecosystems
Economic valuation¹	Extractive	Reef related fish landing (mt/\$\$)
		Subsistence fishery (no. of fishers dependent on reef – mt/\$)
		Commercially (live fish and fish landing – mt/\$)
	Non extractive (tourism)	No. of visitors. (\$ generated)
		No. of people involved in industry (income generated) – no. of chalets/hotels operators - no. ferry/boats operator - no. guide/agents
		Environment services
		Education
		Others

¹ Barbier, E.B. 1997. Economic Valuation of Wetlands: A guide for policy makers and planners. *RAMSAR Convention Bureau, IUCN, Gland, Switzerland.*