

### UNITED STATES DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration NATIONAL OCEAN SERVICE

Cordell Bank National Marine Sanctuary P.O. Box 159 Olema, CA 94950

MEMORANDUM FOR: John Armor

Director, Office of National Marine Sanctuaries

FROM:

Daniel F. Howard

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Superintendent

THROUGH:

William Douros

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Regional Director, West Coast

SUBJECT:

Evaluation of Sanctuary Management Plan Completed

DATE:

April 23, 2019

Pursuant to section 304(e) of the National Marine Sanctuaries Act (NMSA; 16 U.S.C. § 1434(e)), the National Oceanic and Atmospheric Administration (NOAA), Office of National Marine Sanctuaries (ONMS), Cordell Bank National Marine Sanctuary (CBNMS) staff conducted an evaluation of the substantive progress made toward implementing the CBNMS Final Management Plan published in December 2014. As part of this evaluation, the sanctuary staff considered the effectiveness of site-specific management techniques and strategies, and also considered the ongoing prioritization of management goals. Based on this review, ONMS has determined that no urgent or immediate revisions to the management plan or the regulations are needed at this time. This evaluation demonstrates the overall sustained relevance of the goals, objectives, and priorities of the existing management plan.

## **Highlights**

- After approximately four years, CBNMS staff has completed four percent of its management plan activities and successfully implemented 54 percent of programs, resulting in almost 60 percent of the management plan activities being either completed or ongoing.
- The multi-year effort to expand the sanctuary begun in 2012 to nearly double its former size was successfully completed.
- Exhibits were installed at a new Point Reyes National Seashore Lighthouse Visitor Center.
- ONMS staff and partners worked to implement a voluntary Vessel Speed Reduction project to reduce lethal ships strikes of whales.
- All high priority habitats in CBNMS were mapped.
- ONMS continued conducting the Applied California Current Ecosystem Studies (ACCESS) in conjunction with multiple collaborators, adding to the body of scientific knowledge about the sanctuary. This offshore work has been conducted for fifteen years.



## Background

The 2014 CBNMS management plan, published in December 2014, was the product of a multiyear process with extensive public involvement. NOAA's expansion of the sanctuary became effective on June 9, 2015, at which point NOAA began implementing the portions of this plan specific to the newly-expanded area.

The 2014 management plan is comprised of action plans and was developed with an approximately five year planning horizon. Section 304(e) of the NMSA requires NOAA to review sanctuary management plans at intervals not exceeding five years (16 U.S.C. § 1434(e)). Specifically, NOAA must (1) evaluate the substantive progress toward implementing the management plan and goals for the sanctuary; (2) include a prioritization of management objectives; and (3) revise the management plan and regulations as necessary to fulfill the purposes and policies of the NMSA.

## Result of Evaluation

In November and December 2018, the NOAA reviewed the substantive progress made in implementing the nine action plans identified in the 2014 CBNMS management plan.

The current management plan is organized into nine action plans, which are of two types. The first five are site-specific action plans that pertain only to CBNMS management. The remaining four are cross-cutting action plans intended to address management of certain priority issues in a cross-cutting manner for the ONMS West Coast Region and the three national marine sanctuaries located adjacent to one another within the region: GFNMS, CBNMS, and MBNMS. The CBNMS management plan prioritizes the implementation of specific strategies and actions and acknowledges that greater funding is required for full implementation (see Table 1, pages 22-25 of CBNMS Management Plan).

Staff listed the total number of activities in each action plan; then, for each action plan strategy, summarized the total numbers of activities completed, not progressed, in process, and ongoing. For each action plan, staff also included a short narrative highlighting key accomplishments and factors contributing to the progress made on the strategies. In its review of the cross-cutting action plans, staff counted all the strategies but only evaluated progress made to implement the strategies from the perspective of CBNMS.

The summary assessment spreadsheet accompanies this memo, in Appendix A, and summary assessments of the action plans are in Appendix B. Activities that are described as "ongoing" are successfully implemented over the long term. Activities that are partially completed are described as "in process."

The management plan is organized into nine action plans, described below:

## 1. Education and Outreach Action Plan

Of the 53 activities in this action plan, 15 have not progressed, six are in process, 30 are ongoing, and two are completed. Notable achievements include hosting a Teacher At Sea annually with the ACCESS program; installing exhibits at the new Point Reyes National Seashore Lighthouse Visitor Center and at the Gualala Point Regional Park Visitor Center; continuing a podcast that was highlighted by Oceana as one of 12 top ocean podcasts; updating content of the CBNMS website to

<sup>1</sup> https://cordellbank.noaa.gov/management/plan.html

<sup>&</sup>lt;sup>2</sup> 80 FR 34047 (June 15, 2015).

reflect the expansion of the sanctuary in 2015; and redoing the CBNMS website to reflect ONMS best practices for websites. Several activities that did not progress involved developing whole new programs such as an extensive, formal volunteer program for education and outreach, and a workshop series or partnering with local community colleges to offer courses. With only one fulltime education and outreach person on staff, CBNMS did not have the capacity to take on these major initiatives. Other activities were discontinued on a regional level, such as the Multicultural Education for Resource Issues Threatening Oceans (MERITO) program. Lastly, some activities were addressed in a different way than originally planned. One ongoing activity entails creating event-specific communication plans rather than a stand-alone CBNMS communication plan. Also, in order to reach more people, the staff focused on bringing the sanctuary to the people remotely through various ongoing or in process activities rather than bringing the people to this offshore sanctuary in partner-led excursions (an activity that has not progressed during the review period): 

## 2. Resource Protection Action Plan

Of the 47 activities in this action plan, nine have not progressed, 10 are in process, 23 are ongoing, and five are completed. Notable achievements include the expansion of the sanctuary to nearly double its former size; continuing work with partners to implement a voluntary Vessel Speed Reduction project to reduce lethal ships strikes of whales; re-deployment of acoustic monitoring equipment (a conservation science activity) to obtain results that may help in addressing that issue; and completing the first CBNMS Incident Response Plan. Another significant activity, conducted in coordination with GFNMS and ONMS regional and headquarters staff members, was to finalize a rulemaking to allow certain U.S. Coast Guard (USCG) vessel and aircraft discharges to continue within the expanded portion of CBNMS (and within the expanded portion of GFNMS, seaward of three nm from shore) to enable USCG to conduct its missions in those areas, a number of which support protection of the sanctuaries' resources. Some of the activities in this plan were not started during the assessment period because of lack of need or opportunity. For example, no emergency response drills were organized by the region, damage assessment guidelines were not prioritized by NOAA's Office of Response and Restoration, and the need for a programmatic permit to allow any particular entity to conduct activities in CBNMS did not arise. For other activities, such as encouraging and assisting with the efforts of local and regional entities and agencies to improve availability and use of wastewater pump-out facilities, CBNMS is not the lead agency funding and maintaining such facilities, and has not had funds to assist those entities. Some of the activities were dependent on other projects moving forward that did not progress, such as participation in a national-level review of national marine sanctuary regulations pertaining to cruise ships; and working with a variety of existing naturalist programs to include CBNMS interpretive enforcement content. Finally, progress was primarily dependent upon the efforts of the Resource Protection Coordinator and the Resource Protection Specialist; only part of these two positions is allocated to resource protection duties, with the remainder allocated to sanctuary management and administration functions.

# 3. Partnerships with Community Groups Action Plan

Of the 17 activities in this action plan, 16 are ongoing and one is completed. Notable achievements include continuing to partner with the Cordell Marine Sanctuary Foundation, which works to raise funds for CBNMS research and education activities; identifying opportunities with other organizations for supporting research interns and scholars, which resulted in hosting several Nancy Foster Scholarship recipients; and continuing to partner with Point Blue Conservation Science, a major fundraiser for ACCESS work.

### 4. Conservation Science Action Plan

Of the 46 activities in this action plan, 17 have not progressed, six are in process, and 23 are ongoing. Notable achievements include mapping all high priority habitats of the sanctuary; continuing ACCESS to maintain a 15-year data gathering effort; conducting multiple remotely operated vehicle benthic habitat surveys, including in partnership with Ocean Exploration Trust and other collaborators; utilizing the E/V Nautilus to explore the seafloor and collect samples in areas that were added to the sanctuary in 2015 but had never been visited; and starting to monitor oxygen levels (to determine hypoxic conditions) at two locations, as part of assessing changing ocean conditions. Six activities that were not started focused on potential additional research activities, to take place if time and resources allowed. Without any additional staffing and funding during the assessment period, these additional topics were not explored. Six other activities that were not started focused on population genetics, oceanography, and infaunal communities, which have not been the main focus of the CBNMS research enterprise since 2014, absent partners who could contribute to this body of research. The remainder were about coordinating or conducting literature search activities, which did not happen due to staff limitations.

### 5. Administration Action Plan

Of the 18 activities in this action plan, one was completed, six have not progressed, two are in process, and nine are ongoing. A notable achievement includes increasing the staff's ability to access the marine waters of the sanctuary by contracting vessel time (e.g., 2018 cruises conducted using the NOAA Ship Bell M. Shimada). Several of the activities that were not addressed focused on expanding facilities and staffing, which was not possible due to the lack of funding since 2014, though CBNMS has been able to partner California State University system to host two interns at CBNMS. Two activities not addressed focused on annual performance measure and management plan implementation tracking, although this 2018 review constitutes overall implementation tracking, done at the four-year mark following plan publication. Lastly, one activity focused on creating Advisory Council working groups; however, the CBNMS staff does not create working groups; that is the purview of the Advisory Council itself; which has not created any such groups during the assessment period.

## 6. Administration and Operations Cross-Cutting Action Plan

Of the 20 activities in this action plan, five have not progressed, one is in process, and 14 are ongoing. The CBNMS staff continued to build upon collaborative efforts that began prior to the plan's publication, including maintaining regular communications among superintendents, jointly planning for offshore conservation science activities, and sharing responsibilities for preparing permits that affect more than one site in the region. During this period, CBNMS developed a site-specific Incident Response Plan. One of the six activities not started involved interview panels for new staff members; however, CBNMS staff members were not assigned to this task during the period reviewed, and no new CBNMS staff members were hired during the review period. Two of the activities not started were specific to GFNMS and MBNMS, and so were not applicable to CBNMS. CBNMS was not intended to be the lead in implementing the West Coast Region Emergency Response plan; rather, the plan noted GFNMS staff would lead efforts to coordinate and implement site-specific activities, and oversight of the task would be done by the region. Lastly, CBNMS did not contribute to, nor have oversight over, an activity to make the Sanctuary Hazardous Incident Emergency Logistics Database System (SHIELDS) functional and operative for the three sanctuaries.

7. Community Outreach Cross-Cutting Action Plan

Of the 10 activities in this action plan, four have not progressed and six are ongoing. Notable achievements include developing media plans with GFNMS for joint research cruises, such as ACCESS; conducting informal training to organizations that support large docent programs that interpret the ocean ecosystem, such as Point Reyes Seashore Docents; and working with other West coast sites to identify program areas where working together makes sense, such as ocean acidification education tools. Of the four activities that did not progress since 2014, two targeted joint volunteer programs that ended up not including CBNMS. One was geared toward expanding the regional MERITO multi-cultural program, but it was discontinued. The last one was to increase programming through the use of volunteers; however, with only one CBNMS education staff person, there was no capacity to create and manage a volunteer program on that scale.

The subject leading the pull, a tree with the first course

8. Ecosystem Monitoring Cross-Cutting Action Plan

Of the 12 activities in this action plan, four have not progressed and eight are ongoing. The most notable achievements include implementation of the 15-year ACCESS cruises and management of the data gathered during them, done in collaboration with GFNMS, MBNMS, and other partners, notably Point Blue Conservation Science. During the review period, MBNMS staff conducted ACCESS activities for the first time. Also, the CBNMS Research Coordinator works effectively to coordinate various research activities with other sites in the region, most often GFNMS and MBNMS; coordination included leveraging research funds and ship time on an annual basis. One of the activities for which there was no progress was related to the West Coast Observation Project, which was discontinued. Two of the other activities were not designed to include CBNMS. The three sanctuary research teams work effectively to leverage research funds and ship time on an annual basis.

9. Maritime Heritage Cross-Cutting Action Plan

Of the 20 activities in this action plan, 18 have not progressed, one is ongoing and one is completed. Prior to the expansion of the sanctuary in 2015, there were no known maritime heritage resources in CBNMS; post-expansion, records indicate there is one historic ship within CBNMS boundaries. Due to this fact, only six of the activities in this plan were deemed to pertain directly to CBNMS. Because many of these activities have a regional scope and CBNMS does not have a dedicated maritime heritage coordinator, the Regional Maritime Heritage Coordinator is the lead, and works across all the West Coast sites to implement management plan activities, such as the ones reported as "no action" (e.g., establishing a shipwreck monitoring program and inventory, coordinating threats to and from shipwrecks with partners, training, etc.). The CBNMS Resource Protection Specialist works with the regional coordinator or with other ONMS staff members on some maritime heritage activities, and, with respect to permitting in CBNMS, ensures compliance with the National Historic Preservation Act.

Consideration of Revisions and Prioritization of Management Objectives

Since the publication of the 2014 management plan (implemented in the expanded portion of the sanctuary starting in June 2015), NOAA has made significant progress in implementing the strategies and highest priority activities associated with these action plans. Overall, nearly 54 percent of the activities are ongoing, which means they are successfully implemented over the long term. More than 14 percent of the activities are done or partially completed (i.e., in process). All of the action plans still contain activities that would benefit from further efforts. Lastly, a third of the

activities have not progressed since 2014. This lack of completion does not indicate that the goals and objectives of the management plan have lost relevance. Rather, a large number of the activities are designed to be ongoing (e.g., monitoring programs, collaborative management, education programs, etc.), so while they were successfully implemented, they cannot be considered "completed." The total results for the activities in the five CBNMS site-specific action plans show that we have completed five percent of the activities in those plans and successfully implemented 69 percent of them, resulting in 74 percent of the CBNMS site-specific action plan activities being either completed or ongoing.

While some aspects of the human and environmental setting have changed since 2014, most strategies are broad enough to address existing and predicted conditions, and can be continued as prioritized in the 2014 management plan. All the action plans are still highly relevant and we will continue to pursue strategies to address them. Our evaluation showed that the action plans of the 2014 management plan accurately reflect the current management priorities and resource protection issues for CBNMS and are adequate to continue guiding CBNMS operations and programs for the next five years. There continues to be a need for ongoing implementation of strategies, program development, and completion of in-process activities. While some activities have shifted focus in the last four years (*e.g.*, monitoring for hypoxia events linked to changing ocean conditions), no new or different strategies, themes, or programs have been identified during this evaluation.

Overall, while revision would be appropriate to remove the 3.7 percent of completed activities and the few activities that are no longer relevant from the action plans, there is no urgent or immediate need for overall revision of the management plan. The action plans strategies and priorities continue to be relevant for guiding operations and programs. Potential revisions can be considered during the next periodic evaluation that will follow completion of a new condition report. We are scheduled to begin drafting the new version of the CBNMS condition report in 2020, with the next periodic management plan evaluation scheduled to follow, beginning in 2022. Any revisions can wait until future priorities are identified following condition report completion.

### Conclusion

The completion of this evaluation of the 2014 CBNMS management plan satisfies the requirements of NMSA section 304(e). Based upon this review, no urgent or immediate revisions to the management plan or to the regulations are needed at this time. NOAA will use this evaluation, an updated condition report, and other relevant program reports as the management and scientific information bases to undertake the next periodic management plan review. The CBNMS Advisory Council will receive a briefing of the highlights of the 2018 management plan review final results at its April 2019 meeting.

Approved as written	Approved with modifications (see below)
Denied	Request for additional information
	5/2/2019
John Armor	
Director, Office of National M	arine Sanctuaries Date

Attachments

Appendix A: Summary table of all action plans

			Activities		
Action Plan	Total Number of Activities	No progress or on hold (no action)	Partially complete (In process)	Ongoing	Completed (done)
Education and Outreach	53	15	6	30	2
Resource Protection	47	9	10	23	5
Partnerships with Community Groups	17	0	0	16	1
Conservation Science	46	17	6	23	0
Administration	18	6	2	9	1
Administration and Operations XC	20	5	1	14	0
Community Outreach XC	10	4	0	6	0
Ecosystem Monitoring XC	12	4	0	8	0
Maritime Heritage XC	20	18	0	1	1
TOTAL	243	78	25	130	10

Summary: Action Plan #1. Education and Outreach 2014 Priority Strategies No Action | In Process | Ongoing Done Level Strategy E.B. T. Develop community support and partnershops for posan conservation through largeted outreach efforts.

Activity 1.1-A Develop taxored currench messages for specific users and audiences and implement to CBNMS communic plan. Activity 1,1-B Develop joint outreach materials for OBNMS, GFNMS and MRNMS, including products, lectures, and programs based on astablished priorifies that address ocean literacy, and inspire stewardship by supporting and acknowledging behavior 1 that protect ocean resources. Activity 1,1-0 Work with the Sanctuary Advisory Council, scientists, users, and regulatory agencies on identifying appropriate messages for reaching out to constituents.

Activity 1.1-D Identity and target outreactiveducation strategies that are relevant to reach culturally diverse and underserved. communities. Strategy ED-2: Draze volunteers and exercis to assist sentiumy staff in communicating sanctuary messages to a broader audience and carrying 5 L Activity 2.1-A Create a framework and pith for supporting or collaborating with a long term volunteer Sanctuary Naturalist Program that thank volunteers and interms to, deliver outrasch and educational messages; and deliver interpretive programs to schools, commissity groups; and at public events. Activity 2.1-18 Explore potential partnership with organizations to collaborate of develop volunteer programs to facilitate learning. 1 popularities with volunteers and document about covers stewardship.

Activity 21-C. Develop training programs and materials for volunteers and interes and provide origining learning apportunities for volunteers and interes and interest and interest and activity or a second programs and activities and activities for volunteer and interest school interest and interest and activities for volunteers and interest activities for volunteers.

Activity 2.130 Evaluate volunteer/aniam satisfaction and affectiveness of outcoach program and add new training and volunteering. opportunities as appropriate.

Activity 2.1-E Explore long term education/outreach format intern opportunities. and survey potential organizations for needs and willingness to partner with CENMS to distribute sanctuary Activity 2.2-B Develop general transage inserting and activities of the conservation measured transaction and interpretation audiences and activity 2.2-B Develop general transage presentation on CBNMS to reach a variety of education and interpretation audiences and continually update with outroit issues, to pics of interest, and more effective media such as videos and animations. 1 Activity 2.2°C Create and distribute outreach materials about CBNMS volvity 2.2-D Maintain regular communication with partners and provide materials to staff and volunteers as needed 3. In coordination with other California isotional matrix sanctumies; leverage local, regional, and national media opportunities to Sirategy E 1 н cresse Caliomians ocean avareness Activity 3.5-A Complete CBNMS media and communications plan and review site plan annually as needed incorporate ONMS Communication Playbook tools as approximate
activity 3 1-B Define staffs roke and accessory council's toles in working with the media and have all staff and advisory council 1 members and alternates participate in media training.

Actority 3,1-C Develop an annual media plan for upcoming events, including identifying and creating media opportunities, roles, and type interActivity 3.1-D Continue a regular CRNMS agot on local radio station (KWMR). Continue costing podcest of show on CBNMS. 1 Activity 3. 1-E Develop and maintain relationships with local media xrivity 3.1-F Devolop and distribute press kits at events as appropriate. kttyry 3.1-G Participate in NOAA's Ocean Communicators network (Thank You Ocean campaign). Apply campaign tools to ī nedia work at the sito. Strategy ED-4: Prompte ocean literacy and stewardship is far reaching audiences through the development of education and occean tools. 1 10 н Activity 4.1-A scientify audience, purpose, need and justification to design portable products such as, but not limited to multimedia auditovisual products, internet based, hands on ectivities, teaching aids, exhibits, displays, proto database accessable to the pubble Activity 4.1-B (Jentify audience, purpose, and need to plan and design pretod materials about CRNMS, such as posters. 1 1 proclures, and one-pagers. Evaluate those in existence and use results in future publications.

Activity 4.1-C Maintain an active, dynamic, and robust website that is continually reflecting changing programs and activities at 1 Activity 4.1-C Maintain an active, dynamic. Cordell Bank NMS and design standards Activity 4.1-D Incorporate NOAA approved cocial media outlets into outlauch and communication strategies (e.g., Facebook).

Activity 4.2-A identify ocean titeracy thereis, and how those forces apply to National/State based distributes.

Activity 4.2-B identify Ocean Literacy thereis, and how those forces apply to National/State based distributes.

Activity 4.2-C Develop a Tride number of standards-based activities in one or two different age groups (i.e. 4-6th, 7-8th, 8-12.) Activity 4.2-D Engage partners and assemble an advisory group to review and provide feedback on activity sets. Activity 4.2-D Present activities at scienna and assemble and activities and provide feedback on activity sets. 2-E Present activities at science and environmental oducation related conferences to engage users 2-F Lead activities at portners leacher trainings around northern California Activity 4.2-G Develop in class program to be delivered un desstrooms by internsivokinteers dination with West Coast Region, increase awateness of CBNMS through interpretive algrage and exhibits throughout the Strategy ED-5: In co 1 н 3 2 egian Activity 5 1-A Choose sign/exhibit locations based on diversity of visitors, both grographically, culturally, and relevance to 1 messages. Activity 5.1-8 Establish and coordinate partnerships with staff at key locations where signage and exitibits are kilentified as high Activity 5.1-C Secure funding, and create culturally and groupspitically relevant messages, content and designs. Activity 5.1-C Secure funding, and create culturally and groupspitically relevant messages, content and designs and exhibits, beginning with highest priority locations as outlined in the regional Long Range interpretive Plan. priority to message to visitors. angle interpreting Florid.

Livity 5.1-E. Complete process and implement facilities plan for violtor centers as outlined in the regional Long Range 1 Interpreting Plan.
Activity 5.1-F Continue to work closely with the Oakland Museum of California to codate Cordet Bank exhibit and content as 1 Cecessary

Strategy ED-6: Increase awaraness and snowledge of CRNMS Conservation Science and Resource Protection programs by creating opportunities; programs; and materials for teachers and students.

Activity 6.1-A Collaborate with NOAA Teacher at Sea program to place a leacher on CRNMS research/montering creases. Note. 1 4 2 due in variability of weather and ship time, and projects, this program cray yary from year to year. Activity 6.1-9. Collaborate with scientists conducting research in the sanctuary to interpret their feetings so results can be understood by broader audiences ticketing students, teachers and media
Activity 6:3-C Work with participants from teacher at sea programs to develop activities and curriculum associated with field 1 experiences in the sandyusy 1 Activity 6.2.A Explore partnerships to further senduary awareness through education programs that teach manne technology.

Activity 6.2.B Create materias that are relevant to the New Generation Science Stondards for teachers that unlike marine. technology skills and information. iedmoody saws are automotive.

Activity 6,2 C Explore use of GBS (schoology and partnershos to utilize sanctivary resided date sets for curriculum.

Activity 6,2 C Implement marine (schoology workshops at sanctivary sites to vitagrate marine technology activities into high scho Index college compount.

Strategy ED-7: Increase awareness; knowledge; and appreciation of CBNM8 through adult education programming. M Activity 7 1.4. Facilitate on the water excursions to CRIMIS and surrounding waters with partners.

Activity 7 1.8 Greate adult education curse through community education programs or community soileges in Marin and

Sonoma, and create or/sibus/curroundurate include a broad oversides of topics relating to the sanctuary and broad surrounding Activity 7.1-B Greate adult education course through collaboration to include a bro 1 occasystem.
Activey 7.1-C Develop educator focused coastal ecology workshop series to help teachers gain knowledge and experience was a feeting a feeting forward accessation and associaties. Activity 7.14C Develop educator focuses consists consign vortexing series to they reactive guite non-many of the coastal environment, Castomia Gurrent ecosystem and senduaries.

Strategy ED-3: Support the Senduary Advisory Council a creating an Education Working Group for specific projects or issues.

Activity 3.1-A Provide recommendations and guidance on CBNMS outreach and education programs, or on issues whe education can address a CBNMS management issue
Activity 8.1-0 Explore outsitorations to create innovative education and outreach programs and reduce potential duplication of afforts
Strategy ED-9: Develop a multicultural aducation plan targeting changing damographics in the CBNMS region of nentwon California. 3 L Activity 9.1.A Assess camographic data from counties of Maria, and Sonoma and southern Mendocino counties

the state of the s		<u>.</u>		
Activity 9.1-8 Seek partnerships with other agencies, organizations tooking to reach underserved audiences in	1		ki di Mada da eda assol	1
environmental/ocean literacy related content:	20,000,000	A COMMANDA	4.4.1.2.2.2.2.2.2.3 Sax-199-199-199-	in and the same of
Adway 9.1-C Cotsborate with West Coast Region sites implementing multi-collural programming at their sites (9.9; MERITO)	1	and the second		
Activity 9:1-D Create plan for CBNMS to implement culturally relevant programming for non-English speaking populations.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
including secure funding scheme and partners' roles.	-cica <b>15</b> 2222	OWNER BUREAU	30	DOWNAMES

Strategies				tivities	Done	2014 Priorit Level
	at the second se	No Action	In Process	Ongoing 3	Done	H
trategy RP-1	Establish ongoing process to track human use activities and their impacts in and around sanctuary waters.  Activity 1.1-A Work with the Sanctuary Advisory Council to establish appropriate representation from the fishing community, other	Dr. Van Levy		-		1
	stakeholders, interest groups, NGOs and agencies to sit on resource protection working groups as needed and advise the Sanctuary			1		1
	Advisory Council on how to address specific types of activities that may not be compatible with the CBNMS primary purpose of					1
	resource protection.	-				
	Activity 1.2-A Work with the Sanctuary Advisory Council to identify current, new, and emerging activities taking place in and around sanctuary waters.			1		
	Sanctuary waters.  Activity 1.2-B Work with the fishing community, mariners, the research community, and other resource management agencies to					1
	identify current, new, and emerging activities taking place in and around sanctuary waters.			1		1
	being content, new, and ornorging detailed teaming process and detailed in					
RATEGY R	P-2. Address the issue of ship strikes of whales in CBNMS, GFNMS and MBNMS.			5		Н
10 11 4 5 1 11	Activity 2.1-A Continue to work with GFNMS, MBNMS, and the ONMS West Coast Region to support activities that reduce ship			1		
	strikes to whales					-
	Activity 2.1-B Implement recommendations from the final report (June 2012) produced by GFNMS and CBNMS Sanctuary Advisory			1		
	Council Joint Working Group on Vessel Strikes and Acoustic Impacts.  Activity 2.1-C Continue monitoring whale abundance with at sea surveys, land based observation points and aerial flight to collect	-	-			
	data.			1		
	Activity 2.1-D Use near real time data to communicate with USCG and have a USCG advisory broadcast to vessels traveling in the		· · · · · · · · ·	1		
	vicinity of whale aggregations.					-
	Activity 2.1-E Develop an education and outreach plan focused on engaging and informing the commercial maritime industry about			1		
DATECVO	the ship strike issue.  P-3. Profile fishing activities and communities in and around the sanctuary to better understand levels of impacts specific to CBNMS.					10.11
RATEGYRI	-3. Profile fishing activities and communities in and around the salictuary to better understand levels or impacts specific to believe.				1	M
	Activity 3.1 Update fishing activities and socioeconomic profile for fishing in the sanctuary.				1	
PATECVE	P-4: Assess acoustics impacts from anthropogenic sources on sanctuary resources.	1	3			M
RAILGIR	Activity 4.1-A Gather more information and data on the effects of sound in the marine environment.		1			
	Activity 4.1-8 Work with partners to conduct passive acoustic monitoring to identify and quantify sources of anthropogenic noise		1			
	underwater and continue to be apprised of survey and monitoring activities that are evaluating the effects of sound.					
	Activity 4.2-A Continue evaluating individual proposals on a case-by-case basis to determine impacts of proposed projects, and make	1				
	management recommendations.	125				
	Activity 4.2-B Work with NMFS and other partners to determine acceptable sound levels in the different frequency ranges affecting wildlife.		1			
ratemy DD's	Assess impacts from marine debris on sanctuary resources and conduct mitigation activities.			3	1	L
alegy RP-5	Seeses in here a note that the dates on selected 3 resources and solitons the dates.			-	-	
	Activity 5.1 Work with partners to expanc GIS database to track and characterize type, location and amounts of benthic marine			1		
	debris in CBNMS observed during benthe monitoring, mapping and characterization research activities.	-		- 8		
	Activity 5.2 Continue to monitor pelagic marine debris and incorporate into monitoring activities.			1		
	Activity 5.3-A Work with partners to assess the feasibility and test new methods of removing derelict fishing gear from deep water.			1		
	environments like Cordell Bank.				1	-
DATECVO	Activity 5.3-B Work with partners in the removal of derelict fishing gear from deep water benthic habitats.  2-6. Enhance resource protection through increased compliance with CBNMS regulations and other applicable state and federal					
tutes.	-0. Emande resource protection through increased companies wall obvious regulations and other applicable state and recent	5	1	2		Н
tutos.	Activity 6.1 Coordinate with other enforcement authorities on patrols in CBNMS or its airspace, investigations, regulatory violations,					
	permit violations, incidents, and citizen complaints.			1		
		1			15	
	Activity 6.2-A Train Sanctuary Naturalist Program volunteers to use interpretive enforcement (see Education STRATEGY ED-2).	- 2				-
	Activity 6.2-8 Develop signage program at Bodega Harbor.		1			
	Activity 6.2-C Work with California Department of Motor Vehicles to include informational inserts in boat license renewal packets (to	- 1				
	be coordinated with all California nationa marine sanctuaries).  Activity 6.2-D Give presentations at yacht clubs and to Coast Guard Auxiliary Flotillas.			1		1
	Activity 6.2-E Provide follow-up letters to possible violators with "you may be in violation" notices that inform the boater about CBNMS	8				
	regulations.	1				
	Activity 6.3 Encourage and assist the efforts of local and regional port, harbor, and marina management entities and state and local	1				
	agencies to improve availability and use of wastewater pump-out facilities and dump stations for vessels.  Activity 6.4 Participate in a national-level review of national marine sanctuary regulations pertaining to cruise ships, to determine if	-				_
	NOAA might consider a future proposed rule to amend existing cruise ship regulations.	1				1
RATEGY R	P-7. Develop a plan that prepares sanctuary staff to respond to an emergency in or adjacent to the sanctuary. This plan will provide the					
mework for	a seamless operation in cooperation with other federal, state, and local emergency response agencies in California. The plan will be	2	4	2	2	H
reloped in co	cordination with GFNMS and MBNMS.					
	Activity 7.1-A Lay out emergency response notification plans (including all relevant agencies, user groups and media) and preparation			1		
	procedures.					+
	Activity 7.1-B Include coordination and decision-making responsibilities on use of dispersants.				1	-
	Activity 7.1-C Identify specific duties for sanctuary staff.  Activity 7.1-D Develop damage assessment guidelines.	1				
	Activity 7.2-A Train all appropriate sanctuary staff on understanding the ICS.	-	1			
	Activity 7.2-B Train all appropriate sanctiary staff on familiarization with the ACP.			1		
	Activity 7.2-C Train all appropriate sanctuary staff on certification for assigned emergency response duties.		1	100		
	Activity 7.2-D Train all appropriate sanctuary staff on taking part in emergency response drills.	1				
	Activity 7.2-E Train all appropriate sanctuary staff on developing Natural Resource Damage Assessment skills.		1			
	Activity 7.2-F Train all appropriate sanctuary staff on understanding alternative response technologies.		11		<u> </u>	-
RATEGY R	P-8: Continuously evaluate the appropriateness and effectiveness of current CBNMS regulations, including permit procedures in	1	2	8	1	н
dressing the	priority resource management issues identified in the management plan.			1		
	Activity 8.1-A Evaluate the appropriateness and effectiveness of current regulatory language on a regular basis.	-		1		_
	Activity 8.1-B Propose new regulations of amendments to current regulations based on the evaluation and need for action to respond				1	1
	to current, new and emerging human-use activities that may be inconsistent with the CBNMS primary goal of resource protection.				10	
	Activity 8.1-C Provide guidance and understanding of policy in the NMSA.		1	1	2	
	Activity 8.1-D Ensure, to the extent appropriate, coordination and consistency with other resource management agencies' regulations			1		
	and permits.					_
	Activity 8.1-E Track, review, and comment on environmental assessments and environmental impact statements prepared by other			1		
	agencies.					-
	Activity 8.2-Ai In order to understand, measure, and control prohibited activities within the sanctuary, and to minimize cumulative			1		
	Activity 8.2-At In order to understand, measure, and control prohibited activities within the sanctuary, and to minimize cumulative impacts from these activities, the permit program will. Evaluate permit requests on a case-by-case basis.					
	Activity 8.2-Aii Develop permit requirements to applicants on procedures and operations to avoid or reduce impacts to sanctuary					
	resources.			1		
	Activity 8.2-Aii Monitor permitted activities to ensure compliance with permit conditions and to understand direct and cumulative			1		
	impacts					
	Activity 8 2-Aiv Require applicants provide the sanctuary staff with the data and findings gained through research conducted with			1		
	research permits.				-	-
	Activity 8.2-B Certain educational or research activities may violate CBNMS prohibitions, although actual environmental impacts to sanctuary resources may be negligible. A streamlined application process could be developed for activities that clearly fall within this		1			1
	sanctuary resources may be negligible. A streamlined application process could be developed for activities that clearly fall within this category.		18			1
	Activity 8.2-Bi Develop a streamlined application process by creating a simple form on which applicants can submit concise and					
	relevant information.		1			
	Activity 8.2-Bii Develop a system to issue programmatic permits that may include many activities conducted by one organization or	1				
	institution under one permit.	- 0			5	N/A
otal		9	10	23		

Summany Action Plan #1	Partnership with Community Groups.

demand y recour request, rander amp with some of the second secon		Activities			
Strategias	No Action	In Process	Ongoing	Dane :	Level
Strategy PC-1. Develop pertnerships with the research and aduction community to leverage opportunities and expertise to habit the CBNMS:			7		H
Activity 1.1'A kientity potential research and education partners, including other resource management agencies, marine research in the truthons, and individual researchers.					\$100  \$100.000.000.000.000.000.000.000.000.000
Activity 1.58 (dentify ways to comborate with potential partners. The CBMMS staff should determine what it could offer to the partnership, including but not brinded to providing ship time, housing another outreach opportunities. For example, considerations might include partnering on grants, internating programs, and symposiums.			1		
Activity 1,1-C Identity apportunities for funding to support field researchers and an internship program.	un yan termaa.	STOPPHENE STOP	CHASEM DAVID	51/4/07/07/07	Property Sec.
Addivity 1.1-D. Partner on outreach components of research/mankoning programs (may also satisfy grant requirements):	Certy:				
Activity 9:2-A identify potential education partners with shared goals for education:	22	(Septimized Colors	20.0100 V60000	CANCELLA LA CA	
Activity 12-8 identity CBNMS advection/outreach programs that could be accomplished through collaborations.	- 2- 200 miles	**************************************	3.000 mail 04.000 m	712000000000000000000000000000000000000	3 3
Activity: 2-C. Identify apportunities for funding to support unusation/ourseach interes to help with site projects.  Strategy P.C.2: Continue to develop the Sanction Advisory Council's task to the community.	hearth and receive	W26X6E333003452	00003999000000000	3000001 EDEES	35000 4 757
Activity 2.1 A Review Teacons learned from other sanctury cowords and coordinature in the CNMS to keem from successes and failures in reaching out to their community and constituentles.			1		
Activity 2.1-di Provide media Irataing to council mombals. Develop support materials such as PowerPoint or saide presentations for pound interbers to use					
Activity 2.1 C. Work with advisory council members on ways to angage constituents:	Avalorees	THE STATE OF STATE	8787871 <b>1</b> 016-683	105504 KINGGENIW	h 11.165401.d.
Activity 2.1-D'Clarify and evaluate the council chair's role; responsibilities, and expectations for representing the advisory council.				WARE CEN	
trategy PC-3: Use media opportunities to promote the CBNMS programs and raise its identity in Marki, Scrooms, and Mandocino countée			3		М
Activity J.1.A. (dentify and implament effective use of mode tools to reach broad audiences (through newspaper, TV, tadio), incorporate key research fadings into outreach massages.					
Activity 3 1-B Keep the media.Informadiabout current CBNMS activities.	20.000000	24,994,692,693,7	00000100000	0220200000000000	Editory de a
Activity 3:1-C Number relationships with key media individuals and organizations. Work with regular columnists to create marine fortused outwins and features in the local papers. Work with focal radio stations to incorporate feature startes about the carcinory and their programming.			4		
Maleov PC 4. Identaly mechanisms to raise and manage additional sources of revenue and in-kind services.	inercuspenti	PERIODEN PROPERTY	<u> Pilipataik<b>a</b> Ti</u> lakan	ablinitization	MEAN HIGH
Activity 4:1-A Coordinate with Cordell Marine Sanctuary Foundation (CMSF), a non-profit organization with a mission to support the research, education and management goals of CRIMMS:					
Activity 4.1-B Explore machanisms such as individual tronglishes, grants, and events to generate additional sources of revenue.					<u> 1. 7</u>
Activity 4.1-C Implement mechanisms to build community capacity in helping generate donations.	State State Control	9.04000 <b>0</b> .099.00	50.000 CO	2012/2014 (2012/2014)	803 N/A32

Strategies				tivities		2014 Prior
	The state of the s		In Process	Ongoing	Done	Level
TRATEGYC	S-1: Propure an oceanographic climatology report  Activity 1: A Prepare an oceanographic climatology report summarizing existing knowledge about the physical oceanography and	2.2.2.2.	national state (Santalia)	Commence of the Joyle	100000000000000000000000000000000000000	one so in land
	resteorology of this region. This adornation will expose voids and shortcomings in the existing data, and serve as a guide for	1				
	designing future programs. Conduct shop-term data analyses from compand data					
	Activity 1.1.8 Using existing data, construct a constr	١,				
	characterize the physical environment in and around the canctuary.	·			<u></u>	
TRATEGY.C	S-2 Man and characterize CBNMS's habitate	227250000	250.2	25000-0 <b>1</b> 0-2760	agreen in the	М
	Activity 2.1-A Survey entire extent of sanctuary using sonar technology. Analyze information to develop fine-scale bethymetry maps.		1			
	habitet maps, and submerged cultural resources. This information can be used to conjunction with biological surveys to produce habitet suitability models for selected species.	l .	<b>!</b> '		l	
	Activity 2.1-8 Habitat maps created using sonar systems will be ground fruthed using data collected by manned submersible, ROV.					
	and Autonomous Underwater vehicle (AUV) surveys over high relief rocky regions of the sanctuary and towed camera systems and		1			
	grabs mar low rever inconsolidated subdrates. Activity 2 1:C incorporate research findings into CBNMS education/outseach and management programs and messages.					
		<u> </u>		.1		
TRATEGY C	S-3. Characterize the soft-bottom epifaunal communities of CBNMS	2005-09-35-00 2005-00 2005	MEGERNAUM	(CREEKI 3830%)/	Andress of US	amer.
	Activity 3.1-A Conduct survey of soft-portions habitate of CBNMS. Survey will provide habitat assessment, estimates of distribution and abundance of epifauna, assessment of distribution of		1	1	ļ	
	and administrate of a product, dispositive of circulation of charles device, special list of systemiciates, and costs positive any submerged cultural resources	1			ļ	L
	Activity 3.133 Results from this survey will be used to refere the habitat map					
	Activity 3:1-C Create partnerships to continue monitoring epiferonal communities over time.	1		1		
TRATEGY:C	S-4: Characterize(soft-bottom Inflaunat communities of CBNMS  Activity 4.1-A Conduct Sterature review to obtain corport knowledge about inflaunat communities	Cast 4 604.0	SAGGRES 60		29/00/99/00/90	02000 <b>E</b> 27.
	Activity 4.1-B Conduct baseline survey of infaunal communities of CBNMS using bottom grabs. Statvey should determine species	1	<del> </del>	<del>                                     </del>	<del> </del>	
	diversity, distribution, and abundance, as well as describe characteristics of the sediment.	1	<u> </u>			
	Activity 4.1-C Utilize partnerships to continue monitoring infaunal communities over time.	1 1			<u> </u>	
7017EAU.A	Activity 4.1-D Use results to ground truth habitat map.  S-5" Collect; inventory, and catalog new and previously unsorted CBNMS bentific inventebrate specimens.	1	to the second second	100000.500000	EANDANDERE	essa <b>L</b> ei
HA16GY/C	S.S. Collect; inventory, and catalog new and previously unsoned Cighten better inventorate spacements.  Activity S.1A Collections of CBNMS specimens at California Academy of Sciences (CAS) will be taxonomically upgraded, computer			i		Comp. Ballo
	catalogued, and maintained by CAS as research specimens			1	ļ	L
	Activity 5:1-8 Coordinate with CAS to maintain a compisionized species list for CBNMS and provide the date to the sanctuary staff for	'}	†	1	l"	I
	futivae gyestigations.  Activity 5:1-C Targot specimens of interest for subsequent identification, description, and Nature publication.	<del> </del>	<del> </del>	1 1		<del></del>
	Activity 5.1-C Coordinate with CAS to identify and describe sponge species collected from CBNMS, including not yet described	1		1	T	l
	species.		ļ	<u> </u>		<b> </b>
	Activity 5.2 Continue to collaborate with CAS on collection and identification of other CBNMS tenthic invertebrates. Partner with CAS on ruliura favonomic identification, database maintenance, and expansion of specimen collection.	1		1	1	l
TRATEGYIC	S.S. Soryay available museum colorions, data archives, and literature indexing services for CBNMS specimens, data, and	13-0-2002	000000000000000000000000000000000000000	180211180020	000000000000000000000000000000000000000	
ub9cations		2		The state of the s		
	Activity B. 1-A Search rate; all history inviseums and other collections (or specimens collected from CBNMS.		11		ļ	
	Activity 6.1-8 Search standard literature indexes for references to CSNMS. Secure regular access to Lexus-Nexus and/or other	1 1		i		
	Internative indexes for CRNMS	·	<del> </del>	<del> </del>		
	Activity 6.1-C Search organicy and academic electronic databases (a.e., metadata clearing figures) for data from CBNMS	1	<u> </u>			
	Activity 6.1-O Construct and maintain a verified species list and store in an easily accessible data repository (such as National Data		1	1		
TOATECVC	Center or Sanctuary Integrated Monitoring Network (SIMo21) S-7-Understand the function and variability of petagic ecosystems	60,000,000	Germania da w	000770 <b>5</b> 07737	8997 5 807 508, 108	7025 <b>H</b> 9
IRAIESTO	Activity 7.1-A Continue ACCESS with GFNMS and partners to quantifatively assess the distribution and abundance of marine birds,					2
	memmals, and sea tunios relative to ocean conditions, seasons, and biological productivity. This study provides long term data on					
	production: populations, and trophic structure, and it will continue to support management. Physical oceanography will be described			1		
	With data collected in the field and from camptely sensed data. Data will be collected on spannly and temperature at sea surface and lat dopth. Remate data will include upwelling indices, salville images, and corport information.					
	at popul. Remaile data was siciale apwelling stokes, salville shages, and continued					
	Activity 7, 1-B Systematically survey along transect lines and record the presence of marine bods, marrierals and sea turbles within	Ĭ		1		
	CBNMS and GFN/AS.	<del>                                     </del>	<b></b>	<del> </del>	ļ	
	Activity 7. f.C Assess biological productivity by sampling 200plankton and phytoplankton using hydro-accustics and net sampling			1		
	Activity 7,5-D Use an echosounder to map the distribution of zooplankton and firsts.			11		
	Activity 7.1-E Observe and document instran activities within CBNMS and GFNMS	7,	100000000000000000000000000000000000000	1	91	1,200 100 100
	9-8: Continue monitoring fish and eventebrate assemblages and marine debris in relation to the fine-scale babitation and adjacent to in areas of CBNMS.	1.01		5	8681.378	H
se flaid.buildi	I digas vi doluma. La mara di santa di	1	92.11.02.027.1407.1			
	Activity 8.1-A Perform submersible. ROV, or AUV field surveys (one- to three- year intervals) to monitor the distribution and		į	,		[
	abundance of fishes and invertebrates on and adjacent to the hard bottom areas. Assess and monitor distribution, abundance, and			1		
	life history (size and maturity) of tishes accord Cordell Bank and other hard bottom areas  Activity 8, 1-B Assess and monifor carden cover of invertebrates and distribution and abundance of specific macrainvertebrate	+				
	species.	ļ		1		
	Activity 8.5-C Identify locations and quantity of detellict fishing gear and other bensition marine debns using submersible transacts and			1		
	video footage Activity 8.1-D Use video transects and rock grab samples to further characterize habitats identified by the sonar survey.	<del>                                     </del>	<del>                                     </del>		<del>                                     </del>	<b></b>
	The state of the s	<u> </u>		1		
	Activity 8.1-E Compare the blots of Corcell Bank with other deep reefs along the west coast (e.g., Bowie Seamoust in British	ŧ			1	
	Columbia, Point Sur Bank in Catifornia, and Hecete Bank in Oregon). Advity 8. t.F. Determine the fish assembages associated with deferent habitat types.	<del> </del>		1		i
TRATEGYC	1A-coving 8. 1-1. Determine the rein assemblages associated with quieteric money types.  S.S.: Continue to manage and store data in easily eccessible and secure formats and locations. Data collected by CBNMS should be	\$93970;580.00	377332255043	Lancación de Caraca	NAMES OF THE PARTY.	3500 VIV.
ccessible ta r	sterested public and should be securely stoled to prevent loss.	285653	2	2	2842841388	10.00 <b>H</b>
				1		
	Activity 9.5 Maintain handwritten reports from respects cruses. Records will be kept in the CBNMS office and the second set kept	!		'		l
			<del></del>			
	offsite. These records provide information that help (e.g., location, time) describe the sampling environment  Addivty 9.2 Electronic madia collected or research cruises (files and topes) will be copied and stored in the CBNMS office. Electronic	: ]				l
	offsite. These records provide information that help (e.g., location, time) describe the sampling environment			1		
	offsite. These records provide information that help (e.g., location, time) describe the sampling environment.  Actively 9.2 Electronic media calacted or research crusses (files and tapes) will be copied and stored in the CBI4MS office. Electronic media (files and video tapes) provide the detailed information (e.g., water temperature profiles, number of organisms observed):			1		
	offsie, These records provide information that help (e.g., location, time) describe the sampling environment.  Activity 9.2 Electronic madia collected or research cruses (files and tapes) will be copied and stored in the CBIMS office. Electronic media (files and video tapes) provide the detailed information (e.g., water temperature crofiles, number of organisms observed):  Activity 9.3 Data obtained from laboratory analyses of video transects or plantum collections will be stored in a relational database, modeled after the National Park Services) (NPS-3) Natural Resources Ostabase Template. At electronic data are available to		1	1		
	offsite. These records provide information that help (e.g., location, time) describe the sampling environment.  Activity 9.2 Electronic madia collected or research cruses (files and topes) will be copied and stored in the COHAMS office. Electronic media (files and video tapes) provide the idealed information (e.g., valent temperature profiles, number of organisms observed).  Activity 9.3 Data obtained from laboratory analyses of video transects or planton collections will be stored in a milational database.		1	1		
	offsite. These records provide information that help (e.g., location, time) describe the sampling environment Activity 9.2 Electronic madia collected or research crusses (files and topes) will be copied and stored in the CBI4MS office. Electronic media (files and video tapses) provide the idealed information (e.g., water temperature profiles, number of organisms observed):  Activity 9.3 Data obtained from laboratory analyses of video transects or plantom collections will be stored in a relational database, modeled affect the National Park Service's (NPS's) Natural Resources Database Template. At electronic data are available to sanchuary staff through the CBNMS locations a between.			1		
	offsie, These records provide information that help (e.g., location, time) describe the sampling environment.  Activity 9.2 Electronic madia collected or research cruses (files and tapes) will be copied and stored in the CBIMS office. Electronic media (files and video tapes) provide the detailed information (e.g., water temperature crofiles, number of organisms observed):  Activity 9.3 Data obtained from laboratory analyses of video transects or plantum collections will be stored in a relational database, modeled after the National Park Services) (NPS-3) Natural Resources Ostabase Template. At electronic data are available to		1	1		
	offsite. These records provide information that help (e.g., location, time) describe the sampling environment.  Activity 9.2 Electronic madia collected or research crusses (file and topes) will be copied and stored in the CBI4MS office. Electronic media (files and video topes) provide the detailed information (e.g., water temperature profiles, number of organisms observed):  Activity 0.3 Data obtained from laboratory analyses of video transects or plantion collections will be stored in a relational dafabase, modeled after the National Park Service's (NPS's) Natural Resources Obtabase Template. All electronic data are available to sanchuary staff through the CBIAMS localizes a betwork.  Activity 9.4 Ensure data are compliant with (edens standards for accessibility and quality, and formated to be compatible with Federal Geosphatial Data Center (FGDC) and other relevant againsty initiatives (e.g., the Integrated Ocean Observing System (IDOS)).  Sciol. Assess the Irabs of Condeli Banks in the Supply and decelot of Igh Ierves within the regional matter, and regions are interested or population.			1		Z65258γ653
	offsite. These records provide information that help (e.g., location, time) describe the sampling environment.  Activity 9.2 Electronic madia collected or research cruses (files and topes) will be copied and stored in the CB14MS office. Electronic media (files and video topies) provide the idealed information (e.g., water temperature profiles, number of organisms observed):  Activity 9.3 Data obtained from laboratory analyses of video transects or plantion collections will be stored in a milational dafabase, modeled after the National Park Service's (NPS's) Natural Resources Obtabase Template. All electronic data are available to sanchiary staff through the CBNMS local area network.  Activity 9.4 Ensure data are compliant with federal standards for accessibility and quality, and formatted to be compatible with Federal Goospatial Data Center (FGDC) and other relevant agancy initiatives (e.g., the Integrated Ocean Observing System (IOOS)).  S.10: Assess the role of Cordell Back in the supply and receipt of jight larvae within the regional marine secsystem by finking population coarsonations.			1		<u>l</u>
	offsite. These records provide information that help (e.g., location, sime) describe the sampling environment.  Activity 9.2 Electronic madia collected or research cruses (files and tapes) will be copied and stored in the C014MS office. Electronic media (files and video tapes) provide the detailed information (e.g., water temperature profiles, number of organisms observed):  Activity 9.3 Data obtained from laboratory analyses of video transects or plantion collections will be stored in a relational database, modeled after the National Park Service's (NPS's) Natural Resources Database Template. All electronic data are available to sanchary staff through the CBMMS localises a retwork.  Activity 9.4 Ensure data are compliant with federal standards for accessibility and quality, and formated to be compatible with Federal Geospatial Data Center (FGDC) and other relevant againsy initiatives (e.g., the Integrated Ocean Observing System (ICOS)).  S-10: Assess the robs of Cortell Beack in the supply and receipt of jabilaryse within the regional matine ecosystem by finking population coarriography.			1		
	offsite. These records provide information that help (e.g., location, time) describe the sampling environment.  Activity 9.2 Electronic madia collected or research cruses (files and topes) will be copied and stored in the CB14MS office. Electronic media (files and video topies) provide the idealed information (e.g., water temperature profiles, number of organisms observed):  Activity 9.3 Data obtained from laboratory analyses of video transects or plantion collections will be stored in a milational dafabase, modeled after the National Park Service's (NPS's) Natural Resources Obtabase Template. All electronic data are available to sanchiary staff through the CBNMS local area network.  Activity 9.4 Ensure data are compliant with federal standards for accessibility and quality, and formatted to be compatible with Federal Goospatial Data Center (FGDC) and other relevant agancy initiatives (e.g., the Integrated Ocean Observing System (IOOS)).  S.10: Assess the role of Cordell Back in the supply and receipt of jight larvae within the regional marine secsystem by finking population coarsonations.			1		I.
	offsite. These records provide information that help (e.g., location, firme) describe the sampling environment.  Activity 9.3 Data obtained from laboratory analyses of video transects or plankton collections will be stored in a mistional database, modeled after the National Park Service's (NPPS s) Natural Resources Obtabase Tempiate. At electronic data are available to sanchusiny data from the DBMMS locatizes network.  Activity 9.4 Ensure data are compliant with federal standards for accessibility and quality, and formated to be compatible with Endead Googapatial Data Center (FGDC) and other relevant againsy initiatives (e.g., the Integrated Ocean Observing System (ICOS)).  5.10: Assess the rink of Condell Book in the supply and ecoleticity (ight larvase within the reconstraint) which planks in the supply and ecoleticity (ight larvase within the resignoral proposition). Activity 10.1 Determined the genus: make-up of eout, [unertex and issues populations on than with pelagic turned the genus in make-up of eout, [unertex and issues populations of that with pelagic turned the genus in make-up of eout, [unertex and issues populations of that with pelagic turned tagges of several common services with pelagic farvas from or early fail history stages. Collect adult, juvenile, and larvas tagges of several common services with pelagic farvas from or early fails history stages. Collect adult, juvenile, and larvas tagges of several common services with pelagic farvas from Cordel Bank as well as at multiple tectoric adult, juvenile, and larvas tagges of several common services with pelagic farvas from Cordel Bank as well as at multiple tectoric adult, juvenile, and larvas tagges of several common services with pelagic farvas from corded Bank as well as at multiple tectoric adult, juvenile, and larvas tagges of several common services with pelagic farvas from Cordel Bank as well as at multiple tectoric adult, juvenile, and larvas tagges of several common services.	2		1		L
	offsite. These records provide information that help (e.g., location, firme) describe the sampling environment.  Activity 9.2 Electronic madia collected or research chauses (files and topes) will be copied and stored in the C014MS office. Electronic media (files, and video tapses) provide the idealed information (e.g., water temperature profiles, number of organisms observed):  Activity 9.3 Data obtained from laboratory analyses of video transects or plankton collections will be stored in a milational dafabase, modeled after the National Park Service's (NPO'S.) Natural Resources Ontabase Template. All electronic data are available to sanchiary staff through the CBNMS local area network.  Activity 9.4 Ensure data are compliant with federal standards for accessibility and quality, and formatted to be compatible with Federal Goospatial Data Center (FGDC) and other relevant againty initiatives (e.g., the integrated Ocean Observing System (IOOSI)).  5.10: Assess the troke of Corded Bank in the supply and receipt of jets larvae within the registreal matter execusters by finking population carried by the Cover of the provide of the pro	2		1		
STRATEGY C	offsite. These records provide information that help (e.g., location, firme) describe the sampling environment.  Actively 9.2 Electronic maid conducted or research chauses (fits and topes) will be optied and stored in the CBIRMS office. Electronic model (fits and video bytes) provide the detailed information (e.g., water temperature profiles, number of organisms observed):  Activity 9.3 Data obtained from laboratory analyses of video transects or plantion collections will be stored in a mistional database, modeled after the National Park Service's (NPS's) Natural Resources Obtabase Femplate. At electronic data are available to sanchusry staff through the CBIRMS locatizes network.  Activity 9.4 Ensure data are compliant with federal standards for accessibility and quality, and formatted to be compatible with Federal Geospatial Data Center (FGDC) and other relevant againsy initiatives (e.g., the Integrated Ocean Observing System (ICOS)).  5.10: Assess the role of Condelf Back in the supply and society of jish larvase within the regional properties of the supply in the constitution of the Condelf Back region in the compatibility of the condelf Back region in the constitution of the Condelf Back region in the compatibility of the condelf Back region in the condelf Back region in the compatibility of the condelf Back as well as a finally is described adult, juvenile, and larvat stages of several common species with polary larvator from Cordel Back as well as at multiple location is the purple of conduction of conductions of collection of the Staff within the Calcinonic Current System. Conduct genetic instruses on collection devials to determine likely primplaces of includius.	2		1		
	offsite. These records provide information that help (e.g., location, time) describe the sampling environment.  Actively 9.2 Electronic maid confacted or research chauses (fits and tapes) will be optived and stored in the CDRMS office. Electronic media (thise and video tapes) provide the detailed information (e.g., water temperature profiles, number of organisms observed):  Actively 9.3 Data obtained from laboratory analyses of video transects or plantion collections will be stored in a relational dafabase, modeled after the National Park Cervice's (NPS's) Natural Resources Obtabase Template. At electronic data are available to sanchary staff through the DBMS locatizes network.  Actively 9.4 Ensure data are compliant with federal standards for accessibility and qualify, and formatted to be compatible with Enderal Geospatial Data Center (FiGDC) and other relevant againty intlatives (e.g., the Integrated Covan Observing System (ICOS)).  3.19. Assess the risks of Cordell Beals, in the subpry and receipt of (fish larvae within the regional marine covering system (ICOS)).  Actively 10.1 Determine the genutic mate-up of early, the white propulations of that with pesago larvae Mages within the Cordel Bank region in tative to regional populations to understand tevels of mixing and retention of early life history stages Collect adult, purelle, and larvae in the desire of the desired produces of the with pesago larvae which the Cordel Bank stages of several common agrees with palago invae from Cordel Bank as well as at multiple locations, they brimphases of individuals. In the geographic of coupled bis-physical models, Develop or modify an exating 3-D bis-physical simulation model to determise. 1) the geographic fact of the Park are kelly to settle on Cordel Bank Exemine partners for the model of the Park and the conforded Bank. Exemine partners for the model of the Park and dispersal through the physical simulation of the Cordel Bank and the provided to premise.	2		1		
	offsite. These records provide information that help (e.g., location, firme) describe the sampling environment.  Activity 9.2 Electronic madia collected or research chains (files and topes) will be copied and stored in the CBMMS office. Electronic media (files and video topses) provide the detailed information (e.g., water temperature profiles, number of organisms observed):  Activity 9.3 Data a bitained from laboratory analysis of video transects or plantion collections will be stored in a relational dafabase, modeled after the National Park Service's (NPO'S.) Natural Resources Obtabase Template. All electronic data are available to sanchiary staff through the CBMMS local area network.  Activity 9.4 Emistre data are compliant with federal standards for accessibility and quality, and formated to be compatible with Federal Geospatial Data Center (FGDC) and other relevant agancy initiatives (e.g., the integrated Ocean Observing System (IOOSI): \$5.19. Assess the trols of Cordell Bank in the Supply and receipt of jight larvae within the registral real respectively. Activity 10.1 Determine the genutic make-up of educ, juvenile and savial populations of faith with pelagic larvas stages within the Codel Bank registral registral resolutions and larvas from Cordel Bank as well as at multiple local collect adult, juvenile, and larvas stages of several common species with pelagic larvas trapes invalves and source of the Code Bank as well as at multiple locations multi and south of the Bank within the California Courtent System. Conduct genetic stratyses on collecter conditions to determine.  Activity 10.2 Examine larvas dispersas through simulations of coupled the physical models, Develop or modely as examing 3-0 bandwistal strandards for determine.	22		1		
enatics and o	offsite. These records provide information that help (e.g., location, simply describe the sampling environment Activity 9.2 Electronic madia collected or research chauses (files and topes) will be copied and stored in the CBMMS office. Electronic media (files and video tapses) provide the idealed information (e.g., water temperature profiles, number of organisms observed):  Activity 9.3 Data obtained from laboratory analyses of video transects or planton collections will be stored in a mistional dafabase, modeled after the National Park Service's (NPS's) (Natural Resources Obtabase Template. All electronic data are available to sanchiary staff through the CBMMS locations network.  Activity 9.4 Ensure data are compliant with federal standards for accessibility and quality, and formatted to be compatible with federal Geospatial Data Center (FGDC) and other relevant agancy initiatives (e.g., the integrated Ocean Observing System (ICOS)):  5.19. Assess the role of Cordell Bank in the supply and decelot of jish larvae within the regional marine, ecosystem by finking population carriography.  Activity 10.1 Determine the genetic make-up of earth, therefore and isonal populations of faith with pelagic larval stages within the Coded Bank region trative to regional populations to understand tevels of mixing and retermine of early the history stages Collect adult, juvenile, and larval stages of several common aperies with policy larvae from Corded Bank as well as at multiple locations must and south of the Bank within the Calfornic Current System. Conduct genetic analyses on collected antividuals to determine they britiplateness of inchinduals.  Adanty 10.2 Examine larval dispersal through simulations of coupled tio-physical models. Develop or modely an exacting 3-D bio- physical simulation model to determine. It the geographic date of larvae released from Cordel Bank.  Adanty 10.2 Examine larval dispersal through simulations of coupled tio-physical models. Develop or modely an exacting 3-D bio- physical simulation model	22		1		
enatics and o	offsite. These records provide information that help (e.g., location, time) describe the sampling environment.  Actively 9.2 Electronic maid confacted or research chauses (fits and tapes) will be optived and stored in the CDRMS office. Electronic media (thise and video tapes) provide the detailed information (e.g., water temperature profiles, number of organisms observed):  Actively 9.3 Data obtained from laboratory analyses of video transects or plantion collections will be stored in a relational dafabase, modeled after the National Park Cervice's (NPS's) Natural Resources Obtabase Template. At electronic data are available to sanchary staff through the DBMS locatizes network.  Actively 9.4 Ensure data are compliant with federal standards for accessibility and qualify, and formatted to be compatible with Enderal Geospatial Data Center (FiGDC) and other relevant againty intlatives (e.g., the Integrated Covan Observing System (ICOS)).  3.19. Assess the risks of Cordell Beals, in the subpry and receipt of (fish larvae within the regional marine covering system (ICOS)).  Actively 10.1 Determine the genutic mate-up of early, the white propulations of that with pesago larvae Mages within the Cordel Bank region in tative to regional populations to understand tevels of mixing and retention of early life history stages Collect adult, purelle, and larvae in the desire of the desired produces of the with pesago larvae which the Cordel Bank stages of several common agrees with palago invae from Cordel Bank as well as at multiple locations, they brimphases of individuals. In the geographic of coupled bis-physical models, Develop or modify an exating 3-D bis-physical simulation model to determise. 1) the geographic fact of the Park are kelly to settle on Cordel Bank Exemine partners for the model of the Park and the conforded Bank. Exemine partners for the model of the Park and dispersal through the physical simulation of the Cordel Bank and the provided to premise.	7	1			

Activity 11 1-8 Assass Primary Productivity within the productivity and phytoplankton standing stock using at remote sensing data of ocean color.	CGNMS Ecosystem: Examine spatial and temporal variability in primary mulated in-situ and photosymmets-intadance incubations coupled with satellit	ė:	). ( <b>1</b> /2)		
Activity 11.1-C Directed Oceanographic Field Studies currents at distorant levels in the water column around caseed observations (rom statistics to provide informs	Use of current meter arrays and accustic Doppler current profiler to measur. I Cordell Bank, dighters to track motion at and seer the surface, and remately- tillon on both local addregional conditions.				
Activity 11110 Merine Mamonal Observations Using S	hips of Opportunity. Use of vokrateer observers inding on ships of apportunity of abundance of mainte manageals.				
Activity 11.1 E. Understanding the Emerging Role of the conduct surveys within CBNMS to acquire basic briefly access sould foreging behins and diet.	fumbolid Squid in the CBMMS Ecosystem. Use of submerable or ROV to mation on squid abundance and distribution. Use of hook and line sampling to	and the second second			
Activity 11:1-F Geomorphology of Cordell Bank and it and synthesize with rock samples from Cordell Bank 1	transy, Shelf and Slopa Subaurface Geology, Collect sub-bottom profile data to aunimatics, the subsurface geology and stafficial geomorphology of the	4			
Activity 11.1.G Water quality assessment: Assess pot changing physical processes and antisopogenic input	textial environmental degredation of sanctuary waters arising from certain state of the service				
Address to the Benthle confirminant assessment Ass	ess potential environmental degradation of benthic habitats and bottom dwell in) unising from concentrations of contaminants such as pesticides.	ng 1			

Summary: Action Plan #5. Administration

Strategies			Ac	tivities		2014 Priorit	
		No Action	In Process	S Ongoing Done		e Level	
	CBNMS will expand its facilities to incude satellite offices, visitor centers, signage, and vessels located throughout the region as ort implementation of the management plan.	2		1		М	
	citylty 1.1 Increase presence in Bodega Bay, the nearest access point to CBNMS, by opening a satellite office and visitor center ith GFNMS that would serve both research and outreach needs and assist in the further development of partnerships.	1					
A	ctivity 1.2 Work with the PRNS to identify intern/researcher housing options on park lands. These facilities may also include wet labs or researchers' use. Several possible sites (existing buildings) have been identified and preliminary investigations into potential artherships are taking place.	1					
A	ctivity 1.3 Increase the sanctuary staff's ability to access the marine waters of the sanctuary by contracting more vessel time on the IOAA RIV FULMAR to support research and monitoring efforts. This effort will include annual vessel time planning for research and ducation programs. Vessel planning will include NOAA ship time and chartered boat time.			1			
STRATEGY AD-2 education and outr	CBNMS will fill basic staffing requirements to provide support for administration and the program areas of conservation science, reach, and resource protection.	1		1		L	
A	ctivity 2.1 CBNMS staff skills should collectively represent expertise in policy, marine resource management, education, outreach, obunteer development, research, moniforing, geographic information systems (GIS), information technology, and administration.	1					
co hi	ctivity 2.2 Each staff member must exhibit general knowledge about all CBNMS program areas and the ability to effectively ommunicate with constituents, other professionals, and the community at large, in an effort to attract and maintain a consistent and gh caliber staff base, the CBNMS superintendent will encourage and support staff participation in professional development.			1			
STRATEGY AD-3: services to assist in	: With limited staff and financial resources, CBNMS will develop partnerships and identify outside funding sources and in-kind in the implementation of the management plan.			2		м	
A,	ctivity 3.1 In partnership with regional research and educational institutions and agencies, establish a CBNMS-supported internship regram with graduate students to assist the sanctuary staff with monitoring, research, and education priorities.			1			
cc	ctivity 3.2 Maintain and expand informa working relationship with federal, state, and local agencies. Partnership activities include pordination on education and outreach projects, research projects, data analysis, and cruise operations.			1			
STRATEGY AD-4: laison between CB	Support the Sanctuary Advisory Council in its primary roles of providing advice to the sanctuary superintendent and serving as a INMS and the sanctuary community.	1		2	1	н	
as Ad	ctivity 4.1 In consultation with the Sanctuary Advisory Council, strengthen the structure of the council by, evaluating and amending s necessary the Sanctuary Advisory Council charter, evaluating and developing organizational strategies to enhance the Sanctuary dvisory Council's level of participation and effectiveness; evaluating and adjusting, if necessary, Sanctuary Advisory Council embership, and providing support to help the Sanctuary Advisory Council develop a respected voice in the community.			1			
as	ctivity 4.2 Identify the role of the Sanctuary Advisory Council in addressing resource management issues by developing a format for issting in the building of CBNMS policies and procedures. ctivity 4.3 Provide support, resources, and guidance to help the council engage and educate the public about current, new, and				1		
er Ad	merging resource management issues in the sanctuary.  ctivity 4.4 Working groups will be convened by the Sanctuary Advisory Council, as needed, to focus on specific issues and to allow	1		1			
TRATEGY AD-5: urisdictions within o	r participation by additional stakeholders and community experts.  CBNMS will formalize intra- and interagency partnerships to ensure coordination and cooperation with federal, state, and local or adjacent to the sanctuary. NOAA and CBNMS recognize all other authorities in and around sanctuary waters as important solding experience.		1	2		М	
Ac	ctivity 5.1 CBNMS will engage other agencies in reviewing each other's proposed actions, responding to Environmental Impact latements, participating in CBNMS panels and working groups.			1			
mi mi	ctivity 5.2 CBNMS will formalize agreements with federal co-trustee managers signaling that the cooperative and integrated anagement approach established for CBNMS has been adopted by other agencies. To formally implement cooperative anagement of the sanctuary, a number of separate types of agreements may be entered into, including: cooperative agreements, emorands of understanding, memorands of agreement, and consultation.			1			
NA res	storty 5 3 GBNMS will formalize agreements for the following programs. (1) Protected Resources Enforcement Plan (USCG, MFS, Sonoma County Sheriff's Department, CDFW), and (2) Emergency Response Plan (local, state and federal emergency sponse agencies).		1				
TRATEGY AD-6; ell as to evaluate :	Develop and make use of performance indicators to measure effectiveness of the management of the sanctuary as a whole, as specific strategies within the management plan.	2		1		н	
Us of of	tivity 6.1 CBNMS staff will conduct routine performance evaluations to collect and record data on CBNMS performance over time- sing this data, staff will determine the effectiveness of management plan strategies by (a) evaluating progress towards achievement each action plan's desired outcomes and (b) assessing the role or added value of those outcomes in the overall accomplishment site goals and objectives.			1			
Ac be yea	tivity 6.2 An annual assessment on the implementation of the CBNMS management plan will be conducted. This assessment will conducted internally by CBNMS staff who will consider the progress and effectiveness of activities implemented over the previous at in this activity, successes or weaknesses of specific activities will be determined. Activities deemed less than successful in hieving desired outcomes will be addressed to correct or improve the outcomes/outputs. Successful activities will be recognized thapplication of positive lessons learned to other programs.	1					
ma def yes	tivty 6.3 Performance data will be generated from internal annual assessment and shared with advisory council to determine if anagement strategies need to be changed to better meet their stated targets. The targets themselves may also be analyzed to termine their validity (if, for instance, they are too ambitious or unrealistic given current site capacity to address during a particular ar). This activity will be conducted with the management plan review which takes place every five to ten years.	1					
amine if additiona	Consider conducting a public regulatory process, under the statutory authority of the NMSA and in accordance with the NEPA, to if regulatory amendments or additions are needed to manage the expanded CBNMS.		1			н	
to 0	thely 7.1 Work with GRNMS and the CBNMS advisory council to determine interest in conducting a public regulatory process to misider amending or adding to CBNMS regulations, separately or in conjunction with any public regulatory process to amend or add GRNMS regulations for the expanded GRNMS.		1				
otal		6	2	9	1	N/A	

Summary: Action Plan #6. Administration and Operations Cross-Cutting

Strategies	No Action	In Process	Ongoing	Doi
STRATEGY XAO-1: Improve internal communications among the three sanctuaries.			6	
Activity 1.1 Maintain regular communications between the sanctuary superintendents. Superintendents will engage in informal (impromptu phone calls) and formal (regularly scheduled calls or meetings) communications. GFNMS and MBNMS superintendents will meet monthly by phone to discuss common issues.			1	
Activity 1.2 The west coast superintendents will meet monthly by phone with the West Coast Region staff to discuss regional issues and will meet annually in person to develop annual regional priorities.  Activity 1.3 Maintain a new employee orientation program that includes information from the three sanctuaries and the ONMS. If			1	
funding allows, the orientation program will include travel to the other sites to meet staff and learn about their program and activities. These efforts should be coordinated with similar efforts at headquarters.  Activity 1.4 The program coordinators will meet at least once per year to share information and plan joint activities prior to the			1	
development of the annual operating plans. In cooperation with the regional office, the regional lead for each program will facilitate bringing this group together, either via conference call or in person if budgets allow.			1	
Activity 1.5 Schedule annual joint advisory council chair and sanctuary superintendent meeting. The MBNMS and GFNMS advisory councils currently meet biannually to discuss issues and program activities in the MBNMS NMA. GFNMS and CBNMS advisory councils will meet jointly on an annual basis to discuss the expansion area.			1	
Activity 1.6 Encourage and provide opportunities for site staff to give presentations at each other's advisory council meetings. Superintendents, council chairs and coordinators should encourage program staff presentations at each other's meetings.			1	
STRATEGY XAO-2: Improve the efficiency and cost-effectiveness of program operations and administration.	1	1	3	
Activity 2.1 Contact and inform the other sites early in the planning stages of field operations to provide opportunities to plan join missions and to share information and data. Individual sites may have program personnel, technology or information that would benefit the field correlies of another site.			1	
Activity 2.2 As opportunities arise, create short-term opportunities for staff exchanges, rotations, details and informal staff loans for specific projects or to fulfill on-going needs across the West Coast Region.			1	
Activity 2.3 Participate in each other's interview panels to review candidates for new and vacant positions, where possible. This is particularly important when hiring for positions that work with other sites on a regular basis.  Activity 2.4 Cordell Bank and Gulf of the Farallones superintendents and other planning staff will discuss administrative and	1			_
operational needs and expectations related to the expansion area. Staff will meet to determine needs and best opportunities for efficiency in addressing the management of the new expansion area. This relates to all programs, shared staffing, and budget allocation across the two sites.			1	
Activity 2.5 Evaluate alternative management strategies for offshore portions of northern expansion areas. GFNMS and CBNMS superintendents and WCRO will conduct a series of discussions regarding the most efficacious means to manage the offshore portions of the expanded areas of GFNMS and CBNMS, ensuring effective marine science, outreach and resource protection.		1		
TRATEGY XAO-3: Improve the coordination of sanctuary resource protection activities and programs.	4		5	
Activity 3.1 Improve staff awareness and understanding of each site's regulations. Establish a basic and consistent understanding of each site's regulations. Ensure all staff have and are familiar with the portion of the WCRO web page which consolidates the management documents for the West Coast Region: regional regulations, terms of designation and management plans. Produce a table listing all regulations of West Coast sanctuaring the plans.			1	
Activity 3.2 The West Coast sanctuaries will continue to work closely on any future proposed regulatory changes that could affect other sites. The GFNMS and MBMMS Resource Protection Teams will closely coordinate on any future proposed regulatory changes that could impact the NMA.			1	
Activity 3.3 GFNMS will facilitate a public process in the next five years to consider whether the San Francisco Exemption Area should be incorporated into the MBNMS. Such an action would require changing the MBNMS regulations and designation document and require coordination with MBNMS staff, and approval from the MBNMS Superintendent. Public scoping for this process were initiated in 2012.	1			
Activity 3.4 The West Coast sanctuaries will share responsibilities for preparing regional permits. GFNMS will be responsible for permit activities in the NMA. West Coast sanctuaries will inform each other of any new permit applications or other activities that could affect any of the sanctuaries. GFNMS will process permits within the NMA, except for water quality permits, which will continue to be overseen by MBNMS.			1	
Activity 3.5 MBNMS staff will continue to implement Water Quality Protection Program activities including conducting site water quality needs assessment, review water quality permits and authorizations. MBNMS Water Quality staff will participate on Technical Advisory Committees that implement strategies within the WQPP Action Plans, implement volunteer water quality monitoring events including First Flush and Snapshot Day, review and comment on NPDES permits, respond to discharges entering the MBNMS NMA, coordinate and collaborate with partners participating in the Agriculture Water Quality Alliance, and oversee monitoring of Areas of Special Biological Significance in a sub-contract to the San Mateo Resource Conservation District.	1			
Activity 3.6 Coordinate emerging issues among the West Coast sanctuaries and develop coordinated strategies to address emerging issues. As an individual site staff identifies emerging issues, staff members will determine the significance and potential to impact another site, and communicate this to the potentially affected site(s).			1	
Activity 3.7 Implement West Coast Region emergency response plan. The West Coast Region emergency response plan addresses broad emergency response issues that affect the region, identifies ONMS staffing responsibilities and expertise, and outlines how the ONMS will coordinate with existing federal, state and local emergency response agencies in California.	1			
Activity 3.8 Coordinate with the ONMS Damage Assessment Team on populating and making the Sanctuary Hazardous Incident Emergency Logistics Database System (SHIELDS) functional and operative for the three sanctuaries and integrating it with the existing SIMoN database.	1		/11_	
Activity 3.9 Continue to work closely on enforcement activities in the region. Regional enforcement staff will coordinate and cooperate on enforcement activities as they relate to other sites. GFNMS staff will provide assistance as appropriate in the planning and implementation of enforcement activities in the NMA and will coordinate with MBNMS to ensure consistency across sites.			1	

tummary: Action Plan #7. Community Outreach Cross-Cutting	Activities					
Strategies	No Action	In Process	Ongoing	Done		
TRATEGY XCO-1: Build upon and expand existing ocean and coastal outreach			4			
Activity 1.1 Develop or strengthen coordinated regional outreach programs and opportunities. Outreach staff should coordinate on public service announcements, issue-specific workshops and brochures (e.g., tide pool etiquette), docent programs, signage, learning centers, exhibits and displays at community events that encompass or represent the region.			1			
Activity 1.2 Plan and conduct regional sanctuary outreach events. Outreach staff should promote the importance of national marine sanctuaries, conservation science and resource protection programs, working together to improve understanding of marine conservation and management.			1			
Activity 1.3 Develop and implement joint media communications plan, e.g., print, radio, TV, Internet. Media personnel at respective sites should coordinate with the WCRO media liaison to develop a plan.			1			
Activity 1.4 Identify and partner with external programs and partners to incorporate sanctuary-related messages, identify best practices and achieve common goals. Regional outreach personnel should work together to target partners and programs that can effectively communicate ONMS messages on a regional level, and assign appropriate leads to initiate contact and follow-up			1			
TRATEGY XCO-2: Enhance and coordinate ocean and coastal education	3			E-ul		
Activity 2.1 Collaborate on existing site-specific education programs and products as a means to enhance and expand educational offerings. Each year, the education staff will jointly meet to identify collaborative projects for inclusion in their respective AOPs.	1					
Activity 2.2 Take a multicultural/multifingual approach to all outreach efforts. Assess demographics of geographic areas with programming and ensure multicultural relevance to diverse audiences. Develop multicultural educational curricula and materials in response to demographic assessment.	1					
Activity 2.3 Identify and implement new education programs that can be developed jointly with other sites. Education leads should identify and implement new programs as needs arise and as budgets allow.	1					
TRATEGY XCO-3: Enhance ocean and coastal stewardship	1		2			
Activity 3.1 Create, maintain and promote sanctuary and partner volunteer programs. Cultivate volunteers to provide opportunities for stewardship as well as expand resource protection, education, and outreach capabilities of the three sanctuaries.	1					
Activity 3.2 Create new ways to inspire coastal and ocean stewardship in local communities. The three sites will conduct needs assessments with targeted constituents and audiences to identify innovative and creative methods of engaging specific groups of people in sanctuary activities.			1			
Activity 3.3 Identify partners to incorporate stewardship messages. Regional outreach personnel should work together to target partners that can effectively communicate ONMS stewardship messages, and assign appropriate leads to initiate contact and follow-up.			1			
otal	4	0	6	N/A		

Summary: Action Plan #8. Ecosystem Monitoring Cross-Cutting

Stritogles		MACHE TON	Ac	tivities	
		No Action	In Process	Ongoing	Done
ATEGY XEN	A-1: Coordinate existing largeted monitoring activities to promote greater efficiency and effectiveness:	2.502		200000 <b>2</b> 000000	10.2500527
	Activity 1.1 Regional eclence staff should coordinate regarding Intertital monitoring programs. Coordinate individual sanctuary focky Intertital monitoring programs and continue to collaborate with other large-scale rocky intertital monitoring officies, such as PISCO and MARING.	1			
	Addinty 1.2 Beach Watch and Beach COMBERS will continue to collaborate on sharing information on the health of scabinds and reads in beach ast widdlife. GFNMS Beach Watch staff should evaluate the feasibility of expanding existing dilizen science monitoring in the expansion area.				
	Activity 1:3 Maintain and expand ACCESS integrated sendulery marine mammal; seabled and see turbé surveys: CBNMS and CFNMS science staff should evaluate the feasibility of expanding existing at seemonatoring to the expansion area:			**************************************	
	Activity 1.4 Regional science staff should coordinate regarding benthic habitat surveys. Jointly develor research cruise plans and standards for sampling and reporting results for betthic habitat survey work. Augment the benthic habitat survey work with new technologies such as ROV end ALV surveys.				
ATEGY: XEM	4-2:Implement existing regional accosystem monitoring activities	200001100000	\$45896555565	********** <b>4</b> *************	
· .	Activity 2:1 Continue the West Coast Observation Project at CBNMS, GFNMS and MBNMS. The West Coast Observation Project Integrates ocean observation data collected at OCNMS, CBNMS, GFNMS and CINMS.				
· [ <u>f</u>	Activity 2.2. Develop and implement an integrated Sanctuary System-Wide Monitoding (SWM) program for CBNMS; GFNMS and MBNMS by publishing Condition Reports and collaborating with CeNCOOS.			1	
	Activity 2:3 Continue expanding the Sanctuary Integrated Monitoring Network (SIMoN):		roadilikida		
	Activity 2.4 Look for partnerships to support ecosystem monitaring.		massy tegers	asced[]26(0)	san deeda
j	Activity 2,5 Look, for innovative ways to support ecosystem monitoring. Evaluate and identity ongoing funding opportunities to support regional and legger scale cogoling monitoring activities.				
	1-3. Establish a joint internal monitoring coordination team	392001 6597	42260000000000	2000 <b>2</b> 000 C	
	Activity 3.1 Continue to coordinate-research and monitoring across CBNMS.GFNMS and MBNMS.	Postocker.	DOMANNESS OF	65020 <b>5</b> 65000	Nyiitiiniin
li i	Activity 3:2 The CBNMS, GENMS, and MBNMS edence staff will continue to work jointly with the site and West Coast Region nedia staff to develop a research and communications plan.	7.7			
.[s	kutvity 3.3 Develop annual ecosystem based research and monitoring operating plans in collaboration with each other to meet ide, regionel, and netforel monitoring needs. CBNMS_GENMS and MBNMS science staff should share research and monitoring information between stees as annual operating plans are developed.			1	
100000000000000000000000000000000000000		POSSOB <b>4</b> (1999)	Neuses gemeleen	SEE CO. 8 TO A SEE	SOUTH
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Summary: Action Plan #9. Maritime Heritage Cross-Cutting

Summary: Action Plan #9. Mantime Heritage Cross-Cutting Strategies	Activities			
	No Action	In Process	Ongoing	Done
TRATEGY XMHR-1: Continue to build the Maritime Heritage Program	1			
Activity 1.1 Continue to identify potential maritime heritage partners and sources of funding.	1			
TRATECY VALID 2: Inventory and seeses submerried sites	3			1
Activity 2.1 Inventory shipwrecks across the region. Continue to establish external partnerships to inventory potential shipwreck sites with other federal, state, and local agencies as well as avocational archaeologists, commercial divers and fishermen, and acceptional divers.				1
Activity 2.2 Conduct systematic research and surveys of archaeological sites, including the remains of prehistoric, as well as historic sites, representing ship and aircraft losses.	1			
Activity 2.3 Establish a shipwreck reconnaissance and site monitoring program. Use a model similar to that used at CINMS to record and monitor submerged sites and to document new artifact discoveries and evaluation of human site disturbance. Record site positions in NOAA's National Marine Sanctuary Archeological Site (ARCH) GIS database.	1			
Activity 2.4 Assess and nominate appropriate submerged archaeological sites for inclusion in the National Register of Historic Places.	1			
RATEGY XMHR-3: Assess shipwrecks and submerged structures for hazards	3		1	
Activity 3.1 As needed, add to the inventory of shipwrecks, inside and outside of sanctuary boundaries, posing environmental threats to sanctuary marine resources.	1			
Intreats to sancuary manne resources.  Activity 3.2 Monitor shipworks sites. Direct efforts to monitor sites that have been located and are considered a threat to sanctuary marine resources. Use protocols for site evaluation based on the monitoring work at such sites as the Jacob Luckenbach and the Montebello.	1			
Activity 3.3 Coordinate with partners to reduce threats from shipwrecks.	1			
Activity 3.4 For historic shipwrecks, ensure compliance under Section 106 of the NHPA and the NMSA.			1	
TRATEGY XMHR-4: Protect and manage submerged archaeological resources.	3			
Activity 4.1 Coordinate stewardship of submerged resources. Jointly develop a uniform protocol to manage, monitor, and protect submerged sites within the three sanctuaries in partnership with appropriate local law enforcement agencies.	1			
Activity 4.2 Provide training to sanctuary staff and facilitate training for partners. The training will focus on the importance of submerged archaeological resources and the need and tools to manage and protect them and Section 106 requirements.	1			
Submerged archaeological resources and the need and tools of manage and protect than and occurrent and accurate Activity 4.3 Identify archaeological and historic resources currently outside sanctuary boundaries that may be of significant historic interest or may pose a threat to sanctuary resources.	1			
TRATEGY XMHR-5: Conduct public outreach with traditional user and ocean-dependent groups and communities.	4			
Activity 5.1 Identify traditional user and ocean-dependent groups.	1			
Activity 5.1 Identity traditional user and ocean-uspendent groups.  Activity 5.2 Develop collaborative programs and initiatives.	1			
Activity 5.3 Develop consortance programs an instance.  Activity 5.3 Create an inventory of historic and present maritime heritage communities. Focus on traditionally associated people to support mapping, traditional place names, and interpretive programs. Assess and nominate appropriate sites for the National Register of Historic Places.	1			
Activity 5.4 Map and document traditional communities and sites.	1			
TRATEGY XMHR.6: Continue to provide maritime heritage-focused education and outreach programs	4			
Activity 6.1 Improve information sharing and dialogue. Hold an annual maritime heritage event to highlight specific cultural and historic resources that the sites are mandated to protect, such as archeological sites, shipwrecks, etc., and link to adjacent communities and human uses.	1			
Activity 6.2 Create, expand and populate individual sanctuary websites and/or the West Coast Shipwreck Database.	1			
Activity 6.2 Create, expand and populate inturdual sanctuary websites and materials for the MHP. Incorporate traditional activity 6.3 Develop and implement education and outreach programs and materials for the MHP. Incorporate traditional users/ocean-dependent groups and submerged archaeological resources into existing and new education/outreach programs.	1			
Activity 6.4 Collaborate on maritime heritage resource exhibits and signage. The three sites will incorporate maritime heritage themes and messages as part of the California Statewide Signage, Exhibits, and Facilities plan.	1			
Total	18		1	1