

MARINE PLAN PARTNERSHIP FOR
THE NORTH PACIFIC COAST

REGIONAL ACTION FRAMEWORK ANNUAL REPORT

2019



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TABLE OF CONTENTS

Message from the MaPP Secretariat	5
Acknowledgements.....	6
Implementation Overview	7
Implementation Progress Details	11
Looking Ahead.....	31



Photo credit: Markus Thompson, kelp monitoring

REGIONAL

MESSAGE FROM THE MaPP SECRETARIAT

In May 2016, the Marine Plan Partnership (MaPP) for the North Pacific Coast released a Regional Action Framework (RAF) that outlines a succinct yet comprehensive array of regional actions for collaborative and consistent implementation across the four MaPP sub-regions: Haida Gwaii, North Coast, Central Coast, and North Vancouver Island. The RAF considers issues and priorities important across the entire MaPP study area – such as governance, marine zoning, cumulative effects, and ocean climate change – and is not meant to supersede but instead support sub-regional plan recommendations. The regional planning process utilized a regional advisory committee of stakeholders and local governments to review and comment on RAF contents as they were developed.

Since the release of the RAF, the Province of British Columbia and the 16 member First Nations and their aggregate organizations¹ (Central Coast Indigenous Resource Alliance (CCIRA), the Coastal First Nations-Great Bear Initiative (CFN), the Council of the Haida Nation (CHN), the Nanwakolas Council, and the North Coast-Skeena First Nations Stewardship Society (NCSFNSS)) (collectively the ‘MaPP Partners’) have been working to implement the actions in the RAF. Implementation of the RAF – as with its development – is founded on and serves to reinforce a marine ecosystem-based management (EBM) approach to marine resources.

The MaPP Secretariat is pleased to present the **2018-19 MaPP Regional Action Framework Annual Report**. This report highlights progress made on a number of priority RAF actions and associated activities during the period of April 1, 2018 to March 31, 2019, and outlines key activities planned for 2019-20. Implementation of RAF actions is led by the MaPP Partners under the direction of the Marine Working Group (MWG), and co-ordinated by the MaPP Secretariat and the Marine Implementation Technical Team (MITT).

Implementation of the RAF in Year 4 (2018-19) drew on: the wide breadth of regional knowledge held by the MaPP Partners, stakeholders, and local governments; the input of external collaborators, including academic bodies and federal government departments and agencies; and the processes and outcomes of similar initiatives occurring in B.C. and elsewhere in the world.

We hope you enjoy reading of our progress to date.

Sincerely,

Karen Topelko, Province of B.C.

John Bones, Nanwakolas Council

Kristin Worsley, Province of B.C.

Steve Diggon, Coastal First Nations-Great Bear Initiative

¹ On the North Coast, Metlakatla, Gitxaala, Gitgaat, Kitsumkalum, and Kitselas Nations are participating directly in MaPP implementation.



ACKNOWLEDGMENTS

During Year 4, MaPP Partners continued to contribute dedicated time, energy, enthusiasm, and knowledge to the implementation of regional actions. Substantial contributions were made by members of the MaPP Marine Implementation Technical Team (MITT), as well as subject experts from within the MaPP Partner organizations, and First Nations and coastal community members, all of whom provided valuable insight and guidance towards the implementation of regional activities. The Secretariat would like to extend a sincere thank you to these members for their continued efforts.

We would also like to acknowledge the importance of MaPP contracted technical support – in particular the Regional Projects Co-ordinator and a new Data Management Co-ordinator – to advancing a multitude of regional initiatives and projects during 2018-19.

As in previous implementation years, regional activities would not have been advanced in 2018-19 were it not for the valuable input of collaborating programs, such as the Coastal Stewardship Network (CSN)'s Regional Monitoring System (RMS), and external organizations and academic institutions, such as the Hakai Institute and the University of Victoria. Staff from Canadian federal government departments and agencies also worked alongside MaPP Partner members in parallel forums and initiatives to advance important regional actions.

We would also like to recognize the contributions of representatives of various marine sector interests and local governments who continue to provide advice on regional action implementation as members of Sub-Regional Marine Plan Implementation Advisory Committees (MPIACs) and related advisory committees (i.e., Ocean Advisory Committees of the tripartite Marine Protected Area Network process). While the Regional Marine Advisory Committee (RMAC) was not convened in 2018-19, we would like to recognize its continued interest in supporting regional activities into the future.

We are very grateful for the ongoing financial support for MaPP implementation from all of the funders to the Great Bear Sea Fund at Tides Canada Foundation.



REGIONAL

IMPLEMENTATION OVERVIEW

A five-year *MaPP Implementation Strategy* (2015-2020), completed in August 2016, outlines key elements of the MaPP partners' approach to implementing priorities identified in the approved MaPP sub-regional marine plans and the Regional Action Framework (RAF). Five strategic outcomes for achievement are identified in the *Implementation Strategy*, and along with individual RAF actions, form the basis for assessing annual progress in this Regional Annual Report:

Outcome 1: Collaboration and Governance – Strengthening the model of collaborative ocean governance.

Outcome 2: Marine Zoning – Achieving a healthy marine environment, robust economy, and strong communities through zoning.

Outcome 3: Stewardship, Monitoring and Enforcement – Enhancing stewardship of ecological and cultural values, and archaeological sites and areas, through comprehensive monitoring and enforcement.

Outcome 4: Sustainable Economic Development and Healthy Communities – Fostering a new ecosystem-based marine economy for improved community and human well-being.

Outcome 5: Climate Change and Adaptive Management – Undertaking studies and plans to better address the effects of climate change in the MaPP region.

A more detailed description of each of these outcomes is provided in the *Implementation Strategy*, available on the MaPP website (www.mappocean.org).

RAF actions and activities for priority implementation under each outcome were identified early in 2018-19 by the Regional Projects Co-ordinator and the Marine Implementation Technical Team (MITT), during regional annual work planning and budgeting. Implementation activities at a regional level in 2018-19 focused on strengthening MaPP's unique model of collaborative oceans governance; and advancing the linked priorities of EBM indicators, cumulative effects, and climate change assessment, monitoring, and reporting, through advancing the development and implementation of regional frameworks and strategies. Data management was also a focus. Activities in 2018-19 built upon important foundational work of prior years. Key activities and associated RAF actions advanced in 2018-19 are described below.

As in 2016-17 and 2017-18, the MaPP regional projects co-ordinator and other regional representatives regularly convened established sub-committees, and successfully co-ordinated bilateral efforts of the sub-regional teams, towards achieving regional objectives. This co-ordination was intended to foster a consistent yet flexible approach to regional implementation (**Governance Action 2.2a, Implementation Action 6.2a**). In terms of new sub-committees, in 2018-19, the MITT approved the establishment of a 'policy and planning working group' consisting of EBM sub-committee members and internal subject matter experts to advance



policy and planning related to wild marine aquatic plant harvest, to be undertaken starting in 2019-20 (**Governance Action 2.2a, Implementation Action 6.2a**).

MaPP Partners continued actively participating in important initiatives with the Canadian federal government to advance critical, complex regional pieces of work, such as Marine Protected Area Network (MPAn) planning, and regional marine response planning (**Governance Action 2.2a, Implementation Actions 6.2a and 6.2b, Marine Pollution Actions 3.4b and 3.4c, Marine Zoning Action 5.2c**). MaPP Partners and the federal government made significant headway on scenario planning, reaching technical agreement on the draft MPA network for the Northern Shelf Bioregion (NSB) (**Marine Zoning Action 5.2c**). With respect to marine response planning, First Nations MaPP Partners advanced under the Reconciliation Framework Agreement the development of a regional response plan (and associated sub-regional annexes), in collaboration with numerous federal government departments (**Marine Pollution Actions 3.4b and 3.4c**).

The MaPP Partners further encouraged consistency with MaPP spatial zones by developing a *MaPP Zoning Outreach Strategy* (**Marine Zoning Action 5.2b**) and – at a B.C. partner level – continuing meaningful training and outreach with regional provincial staff to maintain awareness of the MaPP spatial zones and consistency of land use authorizations with MaPP spatial recommendations (**Marine Zoning Actions 5.2a and 5.2b**).

After reaching agreement late in 2017-18 to advance an **Integrated EBM Program** (i.e., a Pprogram that addresses EBM indicator monitoring and reporting, cumulative effects assessment and monitoring, and climate change assessment and monitoring under a single strategic framework and workplan), MaPP Partners completed a number of key activities under this program. These activities included: 1) the initiation of a **Regional Kelp Monitoring Program (RKMP)** piloting ‘kelp’ as a regional value (**Climate Change Action 3.1a; Cumulative Effects Actions 3.2a, 3.2b, and 3.2c; EBM Monitoring and Indicators Actions 3.5a, 3.5c, 3.5e and 3.5f**); 2) the completion of metadata standards and a data inventory; and 3) the initiation of a **MaPP metadata catalogue** (**EBM Monitoring and Indicators Actions 3.5b, 3.5d and 3.5f**).

MaPP continued regional communication activities in 2018-19, engaging with stakeholders, collaborators, and the general public through the distribution of six e-newsletters (regional and sub-regional stories), regular postings on social media (Facebook), and through participating and presenting in local, national and international conferences (**Implementation Action 6.2b**).



REGIONAL

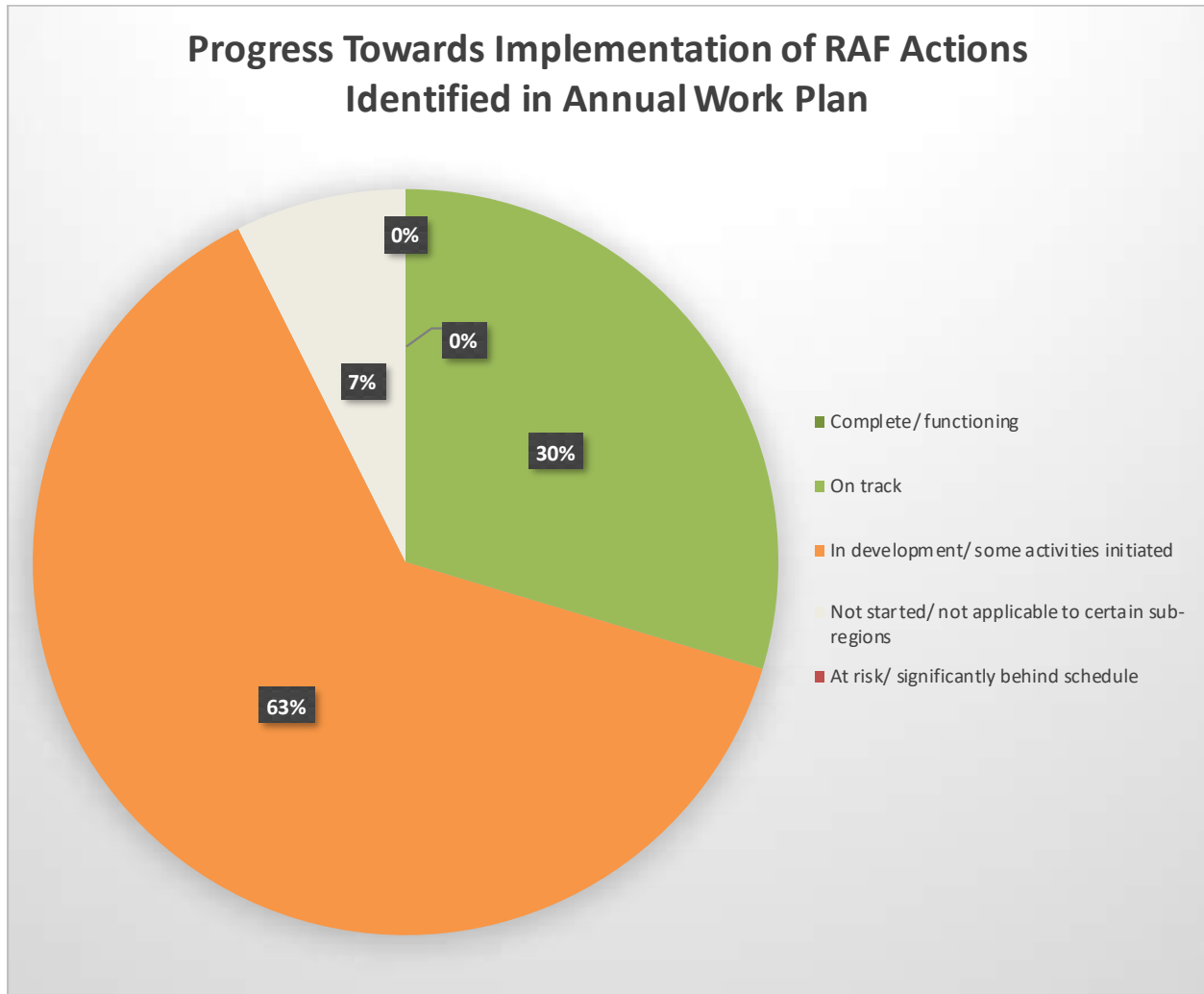


Figure 1. Pie chart showing progress towards implementation of RAF Actions identified in 2018/19 Regional Annual Work Plan.

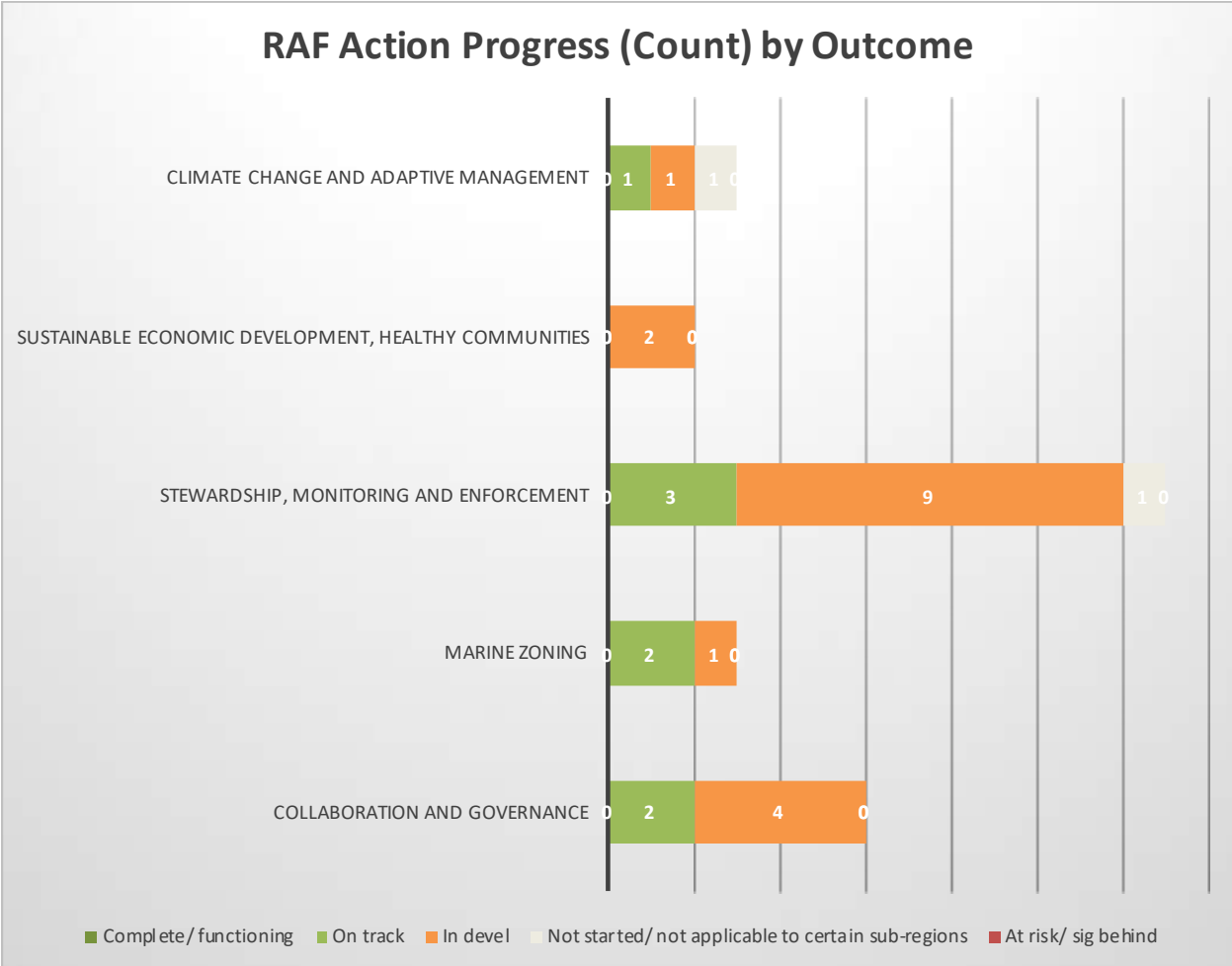


Figure 2. Stacked bar chart showing progress towards implementation of RAF Actions identified in 2018/19 Regional Annual Work Plan.



Photo credit: Warren Warttig, Koeye Big House, Heiltsuk Territory

REGIONAL

IMPLEMENTATION PROGRESS DETAILS

Described below are key implementation achievements at the regional level in 2018-19 related to MaPP RAF actions and organized by the five MaPP strategic outcomes.

Each strategic outcome section also includes a table that lists all the specific RAF actions that the MaPP Partners worked on in 2018-19. For each RAF action, implementation status is indicated based on a 'scorecard'. Note that the RAF actions were developed knowing that each would take several years to implement.

The action status scoring approach is as follows:

Complete/functioning	<ul style="list-style-type: none">• Of the <u>discrete</u> activities intended to be undertaken for this action, all are completed• Of the <u>continuous</u> activities intended to be undertaken for this action, all are fully operational and ongoing
On track	<ul style="list-style-type: none">• All <u>discrete</u> activities intended to be undertaken for this action in the relevant budget year (i.e., year two, year three or year four) are completed• All <u>continuous</u> activities intended to be undertaken for this action in the relevant budget year are fully operational
In development / some activities initiated	<ul style="list-style-type: none">• Of the activities intended to be undertaken for this action, some have been initiated or are in development, but not all are yet complete/ functioning
Not started	<ul style="list-style-type: none">• No activities for this action were initiated in the relevant budget year
At risk / significantly behind schedule	<ul style="list-style-type: none">• Activities for this action are not progressing as planned, are behind schedule, or are projected to be behind schedule based on foreseeable risks

Outcome 1: Governance and Collaboration – Strengthening the model of collaborative ocean governance.

At a regional level, as in previous implementation years, governance and collaboration was a significant focus of implementation in 2018-19. Key achievements included:

- The MaPP regional projects co-ordinator and other regional representatives continued to **successfully co-ordinate MaPP sub-regional teams and sub-committees** towards the accomplishment of regional activities. Sub-committees that were particularly active in 2018-19 were the EBM indicators sub-committee and the Data Management sub-committee, with input from other standing MaPP sub-committees.
- In 2018-19, the MITT approved the establishment of a new **policy and planning ‘working group’** consisting of EBM sub-committee members and internal subject matter experts to advance policy and planning related to wild marine aquatic plant harvest, to be undertaken starting in 2019-20. The draft responsibilities of the new working group were established in late 2018-19 (i.e., conduct a management review of wild marine aquatic plant harvest, with partner organizations providing their perspectives on management topics and issues; and identify governance and policy issues related to wild marine aquatic plant management, and how best to address them).
- The MaPP region also continued to **develop and maintain external collaborations and partnerships** to access expertise and increase capacity. While our partnership with the Coastal Ocean Research Institute (CORI) on regional indicator monitoring and reporting came to a close due to mandate shifts within CORI, conversations with other external organizations and institutions – such as the Hakai Institute, the University of Victoria, the Pacific Salmon Foundation, and the Ocean Health Index (OHI) – continued or were initiated. Relationships cultivated in 2018-19 are expected to be formalized in 2019-20, to encourage further advancement of regional actions.
- The MaPP Partners continued in 2018-19 to **work at a tri-partite level with the Canadian federal government** to advance numerous activities of mutual interest. MaPP Partners’ leadership and participation in tri-partite initiatives greatly influenced Pacific North Coast Integrated Management Area (PNCIMA) implementation, Marine Protected Area network (MPAn) planning and marine response planning in the Northern Shelf Bioregion (NSB).
- To advance MPAn planning and related RAF actions, MaPP supported **community and stakeholder participation** to advance decision-making. MaPP Partners conducted Nation-level community engagement and sought advice from MPA stakeholder advisory committee members via in-person meetings, webinars, and bilateral meetings, in co-operation with federal government colleagues. A comprehensive webinar for stakeholders was hosted by members of the Canada-B.C.-First Nations Marine Protected Area Technical Team (MPATT) in early 2019 to present the draft MPA network design and request initial review.



REGIONAL

- MaPP Partners began developing a revised **Implementation Strategy covering Years 6 through 10**, work that includes identifying strategies to address the issue of integrated governance (i.e., across First Nation, provincial, and federal governments) where it makes sense from efficiency and other standpoints. A statement of work to engage a consultant to facilitate implementation planning discussions between the MaPP Partners was drafted and is currently under review by the partners.
- MaPP partners increased awareness among marine planning practitioners and the general public of the unique MaPP approach to marine plan implementation by presenting at and participating in a number of conferences, workshops, and forums in 2018-19, specifically: the Association for the Sciences of Limnology and Oceanography, Victoria, B.C., June 2018; Salish Sea Ecosystem Conference – Shared Knowledge for the Future – Seattle, WA, July 2018; the 2018 B.C. Seafood Festival – Comox, B.C., June 2018; Coastal Zone Canada Association Conference – St. John’s, NL, July 2018; the Fifth International Marine Conservation Congress – Kuching, Sarawak, June 2018; and the Pew Fellows meeting, Sooke, B.C., October 2018.



MaPP representatives, Kristin Worsley, Steve Diggon, Danielle Shaw and daughter, Russ Jones and Meaghan Calcari Campbell, at the Fifth International Marine Conservation Congress in Kuching, Sarawak, June 2018.



Photo credit: Coastal Zone Canada, John Bones accepts the H.B. Nicholls Award for Coastal Zone Management on behalf of MaPP

- **Regional MaPP stories** were highlighted in MaPP news in 2018-19, with one MPAN newsletter article published and two news stories posted on the MaPP website. The MPAN newsletter article provided details about the interplay between MaPP zoning and the development of a marine protected area network for the Northern Shelf Bioregion, while the news stories described the panel presentation by MaPP delegates at the Fifth International Marine Conservation Congress in June 2018, the presentation of a MaPP workshop at the 2018 B.C. Seafood Festival in June 2018, and awarding of the H.B. Nicholls Award to MaPP at the Coastal Zone Canada Association conference in July 2018. The June 2018 newsletter on MPA network planning was circulated to 1,440 recipients.

REGIONAL

Table 1. Priority regional action statuses for *Governance and Collaboration*, 2018-19

RAF Action implemented in 2018-19	Outcome	Implementation Status of Action
<p>Governance - Action 2.2a</p> <p>Advance collaborative governance arrangements for marine management, including efficient and effective arrangements for implementing MaPP and other related recommendations and priorities (e.g., PNCIMA).</p>	<p>Collaboration and Governance</p>	<p>In development/ some activities initiated.</p>
<p>Governance - Action 2.2b</p> <p>Continue to identify and advance opportunities for more effective and collaborative First Nations-provincial environmental assessment processes.</p>	<p>Collaboration and Governance</p>	<p>In development/ some activities initiated.</p>
<p>Implementation - Action 6.2a</p> <p>Coordinate the involvement of sub-regional provincial government and First Nations staff in the implementation of regional actions, as appropriate.</p>	<p>Collaboration and Governance</p>	<p>In development/ some activities initiated</p>
<p>Implementation - Action 6.2b</p> <p>Coordinate efforts to engage federal government agencies, local government, stakeholders, non-participating First Nations, and the general public in the implementation of MaPP regional actions, as appropriate.</p>	<p>Collaboration and Governance</p>	<p>In development/ some activities initiated</p>

<p>Implementation - Action 6.2c</p> <p>Develop a regional work plan, in conjunction with sub-regional work plans, and review progress in achieving regional actions annually.</p>	<p>Collaboration and Governance</p>	<p>On track</p>
<p>Implementation - Action 6.2d</p> <p>Seek and secure resources for implementation of regional actions.</p>	<p>Collaboration and Governance</p>	<p>In development/ some activities initiated</p>

REGIONAL

Outcome 2: Marine Zoning – Achieving a healthy marine environment, robust economy, and strong communities through zoning.

At a regional-level in 2018-19, MaPP focused on increasing awareness, understanding, and consideration of spatial and aspatial management direction provided in the sub-regional marine plans. MaPP Partners also focused on advancing Marine Protected Area network (MPAN) planning by continuing to participate on the Marine Protected Area Technical Team. Key achievements included:

- A **MaPP Zoning Outreach Strategy** was developed for the MaPP region in 2018-19 that recommends specific approaches and tools to increase awareness of the MaPP spatial zoning framework and encourage increased tenure consistency with the MaPP spatial zones. Development of the strategy (e.g., through interviews and survey development and dissemination) helped to build understanding of the existence and application of MaPP's spatial zoning framework. The approved strategy prioritizes the approaches/ tools to be implemented in 2019-20.
- At a B.C. partner level in 2018-19, continued advancements were made in the MaPP region in terms of **regional provincial staff training and outreach**. B.C. hosted meetings with regional authorizations and FrontCounter BC staff to discuss MaPP zoning recommendations and consideration of MaPP zones in the review of tenure applications. Four training sessions were completed in regional and district offices, i.e., in Campbell River, Courtenay, Smithers and Nanaimo. Training was also provided to provincial ministries/ divisions (i.e., Nanaimo professional development presentation) to bring attention to the MaPP plans and encourage integration and identify efficiencies. On Haida Gwaii, the district office in Queen Charlotte engages in ongoing and opportunistic training and information sessions on an as-needed basis.
- The B.C. partner representatives continued work to have **spatial zones loaded** into a provincial web-map service available to proponents to better understand and get status information of areas of interest. This will raise awareness of the MaPP spatial zones and promote compliance with the recommendations included for uses and activities.
- A **plan variance process and template** developed in 2017-18 by B.C. Partner members in co-operation with the MITT and in consultation with FrontCounter BC staff, is now being implemented and reference to this included in provincial staff training sessions. To date, the variance process has not been triggered².
- As in 2017-18 (Year 3) when a **tenure report** was completed for Year 2, in 2018-19 (Year 4) a tenure report was completed for Year 3. The results of this report are consistent with the Year 2 report, and show a high level of consistency between decisions made on authorizations and the direction provided in the MaPP sub-regional marine plans. The plans were referenced regularly in Land Use reports developed for decision-makers by

² Note that, at this time, the variance process does not consider applications that may be inconsistent due to conditional statements in the plans. It is triggered only when applications are submitted for zones where the requested uses or activities are not recommended.



tenure applicants. Specifically, the Year 3 report found that *'between April 1, 2017 and March 31, 2018, 100 tenures were authorized in the plan area; of these, 37 were new authorizations or tenure amendments and 63 were tenure replacements. The MaPP sub-regional marine plans were referenced in FLNRORD files for 68% of the new tenure authorizations and 49% of the tenure replacements'*. The report also concluded that *'there is a high level of consistency between decisions and plan direction at 81%. The remaining 19% were unclear due to challenges with missing plan direction for conditional statements'*. Efforts to address these challenges will be initiated in 2019-20.

- Significant progress was made in 2018-19 in **MPAn planning for the NSB** by the **Marine Protected Area Technical Team (MPATT) and the Network Committee**, which consist of numerous MaPP Partner members. Specific advancements in the planning process included implementing an engagement and communications strategy to support the decision-making (e.g., around draft scenarios); continued data collection, assembly, management, validation, and analysis; process design and 'project' management; and improving technology support (e.g., SeaSketch, Marxan). In 2018-19, the MPAn governance technical team developed a draft MPA network. Stakeholders are now in the process of reviewing the draft network with their sectors and will be providing feedback and advice in the coming months.
- The Spatial Planning Sub-Committee and the MITT took steps to address the gap in spatial zoning and management recommendations in all four sub-regional marine plans related to the commercial harvest of wild marine aquatic plants. Members identified and approved key elements and species of interest for a Wild Marine Aquatic Plant Management (WMA PM) review process to address the gap and support sub-regional updates to the recommended uses and activities tables and the wider sub-regional marine plans.
- The MaPP Region initiated the development of a RAF and sub-regional **plan review and amendment process**, for internal approval by the MaPP Partners. The process will include assessing whether amendments to approved plans are necessary, as well as a broader review of plan contents, including zoning recommendations, in consideration of the results of other marine decision-making processes (e.g., MPA network).
- A regional **newsletter article** was distributed in June 2018 and posted to the MaPP Facebook page and website to communicate the contribution of MaPP's spatial zoning to the MPAn planning process.

REGIONAL

Table 2. Priority regional action statuses for *Marine Zoning*, 2018-19

RAF Action implemented in 2018-19	Outcome	Implementation Status of Action
<p>Zoning - Action 5.2a</p> <p>Assess management and designation tools, including identification of gaps and potential new tools, to implement zoning recommendations identified in MaPP sub-regional marine plans.</p>	<p>Marine Zoning</p>	<p>In development/ some activities initiated</p>
<p>Zoning - Action 5.2b</p> <p>Develop and coordinate an outreach strategy to inform provincial, First Nations, federal, and local government managers and decision-makers about MaPP spatial management recommendations and implementation requirements.</p>	<p>Marine Zoning</p>	<p>On track</p>
<p>Zoning - Action 5.2c</p> <p>Coordinate involvement in the tripartite (First Nations-British Columbia-Canada) regional MPA network process, including defining and applying MPA network design criteria and collectively evaluating MaPP sub-regional marine plan recommendations, data and analysis for their contributions to a regional network.</p>	<p>Marine Zoning</p>	<p>On track</p>

Outcome 3: Stewardship, Monitoring and Enforcement – Enhancing stewardship of ecological and cultural values, and archaeological sites and areas, through comprehensive monitoring and enforcement.

As in previous years, numerous activities were planned for 2018-19, under this critical outcome, to advance RAF actions on EBM indicator monitoring and reporting, climate change, cumulative effects, and marine pollution. Key achievements included:

- The MITT approved a recommendation from the EBM sub-committee co-chairs to advance a regional-level monitoring program focused on kelp (i.e., a **Regional Kelp Monitoring Program, RKMP**), and to develop a strategy and workplan and budget for implementation in 2019-20 and beyond. The EBM sub-committee co-chairs worked in collaboration with Nature United in late 2018-19 to plan and prepare for a comprehensive RKMP workshop to be hosted by MaPP in early 2019-20. The goals of the workshop, agreed-to in 2018-19, were to: 1) exchange knowledge and establish strong collaborative support for an RKMP among MaPP Partners and external collaborators; 2) generate a road map to operationalize the RKMP; and 3) collectively build the beginnings of a program strategy that links overarching goals, key questions, and on-the-ground activities. Operationalization of the RKMP will help advance the MaPP RAF actions related to EBM indicator monitoring and reporting, as well as actions related to cumulative effects, data management, and climate change.



Photo credit: Markus Thompson, kelp monitoring

REGIONAL

- **Marine response planning** – including prioritized First Nations’ community outreach and the drafting of a Regional Response Plan (RRP) and associated sub-regional annexes – progressed significantly in 2018-19 under the parallel **First Nations Reconciliation Framework Agreement (RFA)** (a First Nation-Canadian federal government agreement), with First Nation MaPP Partner members actively participating in the process. MaPP is observing this bipartite RRP process with a view to providing support in 2019-20 (and/or beyond), where needed.
- The MaPP Partners, through the MaPP Data Management Sub-committee and a data management contracted technical support, made significant progress related to **regional data management**, resulting in: 1) approved MaPP metadata standards which comply with international standards as well as those of the partner organizations and collaborating programs; 2) a full MaPP data inventory that includes a priority ranking of data sets, to guide population of data into a MaPP metadata catalogue; 3) a temporary metadata storage solution that is being used to collect, collate, edit and store metadata content for the MaPP partners’ use; and 4) scoping criteria and potential locations to house the metadata catalogue over the long-term.
- In 2018-19, a **temporary storage solution for MaPP-related metadata** was identified and initiated (and continues to be populated), while the MaPP Partners began scoping locations for a longer-term storage solution (i.e., for both metadata and data sets). The MaPP metadata catalogue was/is being populated and has been designed to be easily ported into a permanent storage location once one is identified by the MaPP Partners. Conversations with potential internal collaborating programs as well as potential external collaborators were initiated, and will continue in 2019-20 focused on considerations such as access, costs, and long-term management and administration of the MaPP metadata catalogue.



Photo credit: Jessica Hawryshyn, Skeena

Table 3. Priority regional action statuses for *Stewardship, Monitoring and Enforcement*, 2018-19

RAF Action implemented in 2018-19	Outcome	Implementation Status of Action
<p>Cumulative Effects - Action 3.2a</p> <p>Continue to refine the draft MaPP marine cumulative effects assessment framework in collaboration with the Province of British Columbia's cumulative effects project.</p>	<p>Stewardship, Monitoring and Enforcement</p>	<p>In development/ some activities initiated</p>
<p>Cumulative Effects - Action 3.2b</p> <p>Collaborate with sub-regions to select and implement an appropriate pilot(s) to test the cumulative effects framework for marine uses and activities.</p>	<p>Stewardship, Monitoring and Enforcement</p>	<p>In development/ some activities initiated</p>
<p>Cumulative Effects - Action 3.2c</p> <p>Advance dialogue on a common approach to integrate cumulative effects assessments into marine decision-making processes.</p>	<p>Stewardship, Monitoring and Enforcement</p>	<p>In development/ some activities initiated</p>
<p>Marine Pollution - Action 3.4b</p> <p>Support and co-ordinate pollution response through the use of tools such as data sharing agreements, common decision-support tools, and geographic response plans.</p>	<p>Stewardship, Monitoring and Enforcement</p>	<p>On track</p>

REGIONAL

<p>Marine Pollution - Action 3.4c</p> <p>With relevant agencies and departments, review existing funding mechanisms for pollution prevention and response, and explore opportunities to improve existing policy and bolster funding, as necessary.</p>	<p>Stewardship, Monitoring and Enforcement</p>	<p>On track</p>
<p>EBM Monitoring and Indicators - Action 3.5a</p> <p>Based on existing and ongoing work, establish a regional suite of indicators and initiate monitoring and analyses.</p>	<p>Stewardship, Monitoring and Enforcement</p>	<p>In development/ some activities initiated</p>
<p>EBM Monitoring and Indicators - Action 3.5b</p> <p>Co-ordinate the development of information-sharing protocols where appropriate.</p>	<p>Stewardship, Monitoring and Enforcement</p>	<p>In development/ some activities initiated</p>
<p>EBM Monitoring and Indicators - Action 3.5c</p> <p>Assess existing programs associated with marine EBM monitoring for potential opportunities for public involvement in monitoring activities.</p>	<p>Stewardship, Monitoring and Enforcement</p>	<p>In development/ some activities initiated</p>

<p>EBM Monitoring and Indicators - Action 3.5d</p> <p>Maintain and enhance a comprehensive and publicly accessible data portal to more effectively share EBM indicator monitoring data, spatial data, and other relevant data and reports (e.g., cumulative effects, climate change and marine pollution).</p>	<p>Stewardship, Monitoring and Enforcement</p>	<p>On track</p>
<p>EBM Monitoring and Indicators - Action 3.5e</p> <p>Develop and implement training and other programs to increase First Nations involvement in EBM monitoring activities.</p>	<p>Stewardship, Monitoring and Enforcement</p>	<p>In development/ some activities initiated</p>
<p>EBM Monitoring and Indicators - Action 3.5f</p> <p>Review existing funding mechanisms for monitoring, and explore opportunities to improve those mechanisms and bolster funding at the sub-regional and regional scales, as necessary.</p>	<p>Stewardship, Monitoring and Enforcement</p>	<p>In development/ some activities initiated</p>
<p>Compliance and Enforcement – Action 4.2a</p> <p>Identify and co-ordinate new and existing initiatives associated with increasing First Nations involvement in compliance and enforcement.</p>	<p>Stewardship, Monitoring and Enforcement</p>	<p>In development/ some activities initiated</p>

REGIONAL

<p>Compliance and Enforcement – Action 4.2b</p> <p>Review existing compliance and enforcement funding sources and explore opportunities to support and bolster activities in the region and sub-regions, as necessary.</p>	<p>Stewardship, Monitoring and Enforcement</p>	<p>Not started/ not applicable to certain sub-regions</p>
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Photo credit: Steve Diggon, Central Coast



Photo credit: CHN Fisheries Program, EBM monitoring

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Outcome 4: Sustainable Economic Development and Healthy Communities – Fostering a new ecosystem-based marine economy for improved community and human well-being.

The MaPP Partners continued to explore potential economic development activities to undertake, at a regional level, addressing common issues such as marine transportation infrastructure. Specific progress included:

- MaPP Partners worked to refine an internal scoping document on marine transportation infrastructure in the MaPP Region (i.e., a ‘coastal services highway’), to best determine where MaPP might include value-added content to economic development across the region.
- Infrastructure issues related specifically to the impacts of climate change were identified and documented in 2017-18 regional climate change reports completed by MaPP and the University of Victoria’s Enthoecology Research Group; efforts to disseminate this information more broadly were made through the development of graphic and interactive educational materials, to be made available to the public in 2019-20 (see **Outcome 5**).



Photo credit: Julie Carpenter, Bella Bella government dock

Table 4. Priority regional action statuses for *Sustainable Economic Development and Healthy Communities*, 2018-19

RAF Action implemented in 2018-19	Outcome	Implementation Status of Action
<p>Economy and Infrastructure - Action 3.3a</p> <p>Confirm specific gaps in regional and coastal community marine infrastructure and services, and initiate action to address them to improve economic development and human well-being.</p>	<p>Sustainable Economic Development and Healthy Communities</p>	<p>In development/ some activities initiated</p>
<p>Economy and Infrastructure - Action 3.3c</p> <p>Enhance collaboration between the sub-regions to attract and better integrate new and emerging industries that are consistent with provincial government and First Nations economic priorities.</p>	<p>Sustainable Economic Development and Healthy Communities</p>	<p>In development/ some activities initiated</p>

REGIONAL

Outcome 5: Climate Change and Adaptive Management – Undertaking studies and plans to better address the effects of climate change in the MaPP region.

To advance climate change RAF actions, MaPP built upon vulnerability and risk assessment work carried out in 2017-18. Specific progress included:

- The Climate Change Sub-committee convened to advance projects related to vulnerability, assessment and risk, including the **development of educational materials** based on 2017-18 climate change reports. Specifically, the Climate Change Sub-committee prepared advance scoping materials, communicated with external contacts, and agreed to advance: 1) a graphically-designed, condensed version of the 2017-18 report *Regional Climate Change Assessment: Projected Climate Changes, Impacts, and Recommendations for Assessing Vulnerability and Risk across the Canadian North Pacific Coast*; 2) an accompanying online report publication (or portal) for interactive use by the public; and 3) an executive summary report.
- The **graphically-designed report**, titled ‘Northern Shelf Bioregion Climate Change Assessment: Projected Climate Changes Sectoral Impacts, and Recommendations for Adaptation Strategies Across the Canadian North Pacific Coast’ was completed in March 2019.
- The **online report publication** (e.g., with a responsive design and shareable URLs) was initiated with a contractor in late 2018-19, and slated for completion in April 2019. Similarly the executive summary, to support the graphic and online report publications was almost complete by the end of 2018-19, and is slated for completion in May 2019.
- Work to advance the RKMP in 2018-19 included discussions (both internal and external, e.g., with organizations such as the Hakai Institute) on advancing the **monitoring of oceanographic indicators** such as temperature, salinity, and dissolved oxygen, in conjunction with possible kelp monitoring. These discussions will continue into 2019-20.

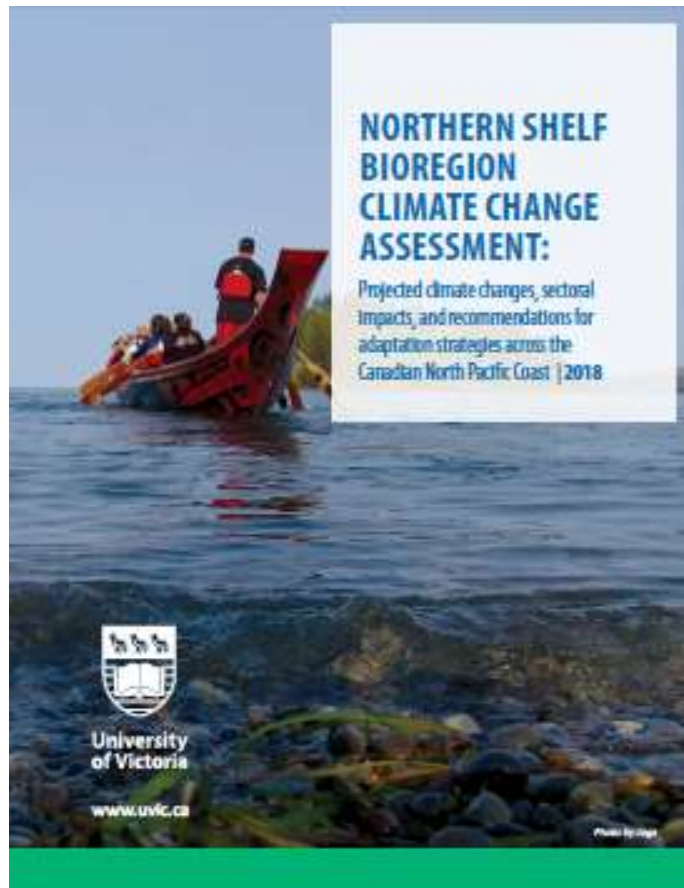


Table 5. Priority regional action statuses for *Climate Change and Adaptive Management, 2018-19*

RAF Action implemented in 2018-19	Outcome	Implementation Status of Action
<p>Climate Change - Action 3.1a Identify and monitor climate change indicators for the MaPP region, and incorporate data into a long-term and effective EBM monitoring program that will inform response strategies.</p>	Climate Change and Adaptive Management	In development/ some activities initiated.
<p>Climate Change - Action 3.1b Develop and conduct a regional risk assessment for ocean climate change.</p>	Climate Change and Adaptive Management	Not started/ not applicable to certain sub-regions
<p>Climate Change - Action 3.1d Develop regional educational tools for application that explain ocean climate change effects, their impacts on marine ecosystems, human communities and infrastructure, and adaptive capacity.</p>	Climate Change and Adaptive Management	On track

REGIONAL

LOOKING AHEAD

Looking ahead to implementation in Year 5 (2019-20), at a regional-level, MaPP will continue to build off of foundational work and momentum of previous years. Maintenance of established tri-lateral relationships in particular will be critical to advancing complex, multi-year initiatives (e.g., PNCIMA implementation, MPAn planning and marine response planning), including integration of governance and stakeholder activities where possible and where priorities overlap. When necessary, regional actions for 2019-20 may be re-prioritized to take advantage of federal interest and participation.

MaPP Partners at a regional level will also continue to explore collaborations and more formal partnerships with external organizations and institutions, to harness specific expertise and capacity, and build knowledge and capacity within the MaPP Partners. Implementing actions planned under the outcome Stewardship, Monitoring and Enforcement – and specifically activities under the Integrated EBM Program (i.e., activities related to EBM indicator, cumulative effects and climate change assessment, monitoring and reporting, and data management) will benefit from increased external capacity.

Activities scheduled for implementation in 2018-19 but not completed due, in part, to their complexity and/or partner capacity limitations to tackle them fully, will be undertaken in 2019-20 as capacity allows. For example, activities under the outcomes Sustainable Economic Development will continue to be explored in 2019-20, and remain of interest for long-term implementation. However, regional actions and activities prioritized for implementation in 2019-20 will be those that partners have already invested time and energy in advancing, as well as those that will adequately prepare MaPP for implementations Years 6 through 10 (e.g., strategic planning). Working to secure continued funding for regional activities and programs will be key to advancing all strategic outcomes in future years.

Lastly, as in previous years, MaPP Partners will look in 2019-20 to the processes and outcomes of similar initiatives occurring in B.C. and elsewhere in the world to identify commonalities and ways in which MaPP might tackle complex projects and programs. Communicating out will be key as MaPP moves from Year 5 into Year 6 and beyond, to continue to share lessons learned, maintain momentum and enthusiasm, and build a community of practice.





Photo credit: Steve Diggon, sailboat on the Central Coast

WHERE TO GO FOR MORE INFORMATION

The Marine Plan Partnership:
<http://mappocean.org/>

Marine Plan Partnership for the North Pacific Coast | MaPP is a partnership between the Government of B.C. and First Nations.

