



ICRI Member's Report

PACIFIC COMMUNITY

Reporting period December 2017 – November 2018

1. **Reporting on the ICRI Plan of Action 2016-2018.** *Your responses will help inform the Secretariat about members' contributions toward the previous Plan of Action.*

- a. **Please list any relevant examples from your organisation/country of investment/projects to protect and restore the natural infrastructure of reefs and mangroves.** (See Goal (1) 2 [ICRI Recommendation for supporting investments in the natural infrastructure of reefs and mangroves to increase climate resilience](#)).

RESCCUE PROJET:

Monitoring and health status:

- Monitoring the health status of the reefs on North Efate in 2016 (results incorporated in the ICRI regional report) and on Vatu-i-Ra (in 2016 and then in 2018);
- Development of a toolkit for community monitoring of coastal areas, including reefs, in Vanuatu;

Management of Community Protected Areas:

- Creation of the Vatu-i-Ra Marine Park, with adoption of the management plan (see docs in pj);
- Mapping of tabu areas on North Efate, installation of signs in progress and development of a guide for the management of reef tabu areas;
- Revision of LMMA management plans for several villages in the province of Ra in Fiji, with mapping;

"Concrete" actions:

- Coral plantations planned for North Efate as part of the conservation fund action plan set up this year, and also planned as part of the rehabilitation of Tahiamanu beach in Moorea, French Polynesia (2019);
- Mangroves rehabilitated, also vetiver and indigenous vegetation planted on eroded riverbanks and adjoining farmland, using material from community nurseries set up early in the project and monitoring the vegetation planted in earlier reporting periods in Fiji Ra Province
- Installation of ecological anchorages in Moorea, Gambier and North Efate (in progress);

ICZM plans:

- Revision of the PGEM of Moorea;
- Development and adoption of the ICZM plans for the provinces of Ra (2016) and Kadavu (2018) in Fiji;
- Development of an ICZM plan for North Efate (currently being finalized);
- Development of an ICZM plan on Opunohu and Gambier;

Financing mechanisms:

- Establishment of a conservation fund on North Efate in 2018;
- Establishment of a conservation agreement and ad-hoc funds on Vatu-i-Ra in 2018;
- More anecdotal: testing of mechanisms (sponsorship, donation boxes) for two World Heritage Management Associations in the North Province of NC;

Indirectly, work carried out in the field of monitoring and erosion control on watersheds in the province of Ra in Fiji (ecological restoration activities), in the municipality of Touho in NC (tracking device, replanting), and on the bay of 'Opunohu (anti-erosion farming practices) in PF.

- b. **Has your organisation/country made any progress in the following areas to target anthropogenic pressures?** Please give detail below. Note: If no change since your last ICRI member report, please write 'no change'.

Encourage ban of plastic microbeads in cosmetic products. (See Goal (3) 2 & [See ICRI Recommendation to reduce plastic microbeads pollution in marine environment](#)):

Improve regulation and enforcement to reduce direct anthropogenic damage due to dredging and physical alteration of reef structures. (See Goal (3) 3 & [ICRI Recommendation to reduce damage due to dredging and dumping on coral reefs](#)):

Deployment of mooring devices limiting the mechanical destruction of coral reefs and seagrasses. (See Goal (3) 4).

See description in 1.a.

- c. **Did your organisation/country celebrate International Year of the Reef?** Please give details below. (See Goal (5) 1 & [ICRI Recommendation designating 2018 as the third International Year of the Reef](#)):

2. Contribution to the ICRI Plan of Action 2018-2020 and upcoming ICRI general meetings. *Your responses to the following questions will assist the Secretariat in assessing contributions towards the major themes of the draft ICRI Plan of Action 2018-2020.*

Theme 1 – Promote effective and adaptable solutions to improve the protection of coral reefs

- a. **Which of the below topics do you consider to be the three top challenges that your organisation faces in managing coral reefs?** Please select from the options below:

- Climate change impacts
- Inadequate planning, zoning and management
- Unsustainable resource extraction
- Tourism and recreation
- Shipping
- Coastal development
- Dredging

- Illegal and destructive fishing
- Fish and coral trade
- Marine debris
- Other. Please specify:

- b. **Please list any examples of innovative management practices that your organisation/country is involved in, such as use of VMS, drones & ecological mooring devices.** Include their limits, conditions of implementation, financing and an assessment of their results and links for more information if possible.

Coral plantations planned for North Efate as part of the conservation fund action plan set up this year, and also planned as part of the rehabilitation of Tahiamanu beach in Moorea, French Polynesia (2019) (RESCCUE project);

Installation of ecological anchorages in Moorea, Gambier and North Efate (in progress) (RESCCUE project);

(SPC Fisheries division): Mobile phone data collection app for monitoring artisanal fisheries : Tails app
http://www.spc.int/DigitalLibrary/Doc/FAME/InfoBull/FishNews/149/FNL149_02_Hunt.html;
<http://fame1.spc.int/en/publications/digital-library> (key word: tails app)

- c. **Please list any examples of innovative funding for management that your organisation/country is involved in.** Include their limits, conditions of implementation, financing and an assessment of their results and links for more information if possible.

Financing mechanisms (supported by RESCCUE project):

- Establishment of a conservation fund on North Efate in 2018;

- In partnership with WCS, establishment of a conservation agreement on Vatu-i-Ra in 2018

http://www.spc.int/DigitalLibrary/Doc/FAME/InfoBull/FishNews/151/FishNews151_12_Mangubhai.pdf

- d. **Please list any examples of leading practices, techniques and strategies for building reef resilience that your organisation/country is involved in.** Include their limits, conditions of implementation, financing and an assessment of their results and links for more information if possible.

See examples in 1.a above

- e. **Please list any examples of leading practice reef restoration mechanisms that your organisation/country is involved in.** Include their limits, conditions of implementation, financing and an assessment of their results and links for more information if possible.

See examples in 1.a above

Theme 3 – Support communities reliant on coral reefs

- f. **Is sustainable tourism development a significant challenge for your organisation?** If so please include detail below of the kinds of challenges faced and

your strategies to deal with them.

See examples in 1.a above

Is your organisation involved in activities to raise awareness and encourage action to support communities reliant on coral reefs? Please include details below.

Theme 4 – Help to reduce anthropogenic threats to coral reefs, particularly those that occur at a global or regional scale

g. What activities is your organisation involved in to elevate awareness of the global nature of the threat of climate change to coral reefs? Please include details below

Contribution to The Pacific Marine Climate Change Report Card 2018:

<https://www.gov.uk/government/publications/commonwealth-marine-economies-cme-programme-pacific-marine-climate-change-report-card-and-scientific-reviews>

Monitoring of threats of Climate Change to coral reefs and coastal areas, through installation of Wave buoys: Wave information is critical for coastal developers, climate change adaptation planning, safe and efficient navigation, renewable energy assessments, and understanding the impacts of extreme wave events during cyclones and storms <https://www.spc.int/updates/news/2018/05/new-buoy-to-provide-better-wave-forecasts-and-ocean-knowledge-on-fijis-coral>

SPC-led research work and publication on “Vulnerability of Tropical Pacific Fisheries and Aquaculture to Climate Change” including chapter 5 – vulnerability of coral reefs in the tropical Pacific to climate change (p.251): <https://www.spc.int/cces/climate-book/spc-publications-on-climate-change>

SPC Cospac project and the [Pacific Ocean Portal](#) which provides updated information on sea surface temperature, wave forecasts, surface current forecasts, coral bleaching alerts, and seasonal sea level variations, in addition to hosting near-real time tide gauge data from 14 sites across the region: <https://www.spc.int/updates/news/2017/10/tuvalu-aims-improve-ocean-forecasting-and-maritime-safety>

h. Has your organisation made any progress in dealing with destructive fishing and trade? Please include details below.

i. Has your organisation made any progress in dealing with marine debris?
Please include details below.

(RESCCUE project) Followed up on the Vanuatu Government’s plastic-ban law by producing an awareness kit, play and communication parade against plastic in North Efate villages

(SPC Fisheries division); research work on impacts of micro-plastics in the marine food chain in Pacific Ocean

j. Would you like to report on your activities during the ICRI GM? Please give details below.

Y / N – available only on 4th Dec.

k. International events. Please list any upcoming international events relevant to ICRI which someone from your organisation plans to attend in 2018-2019.

- ICRI GM, Monaco, 5-7 Dec 2018 – **only on 4th Dec**
- Conference of the Parties to the United Nations Framework Convention on Climate Change, 3-14 Dec 2018
- Reef Futures 2018: A Coral Restoration and Intervention-Science Symposium, Florida, 10-14 Dec 2018
- Global World Heritage Marine Managers meeting, Alaska, US, 26-31 May 2019

Other:

l. Publications. Please list relevant publications and reports you have released during this reporting period. (a selected list – more through SPC digital library)

2018. Vanuatu Community Marine Monitoring Toolkit. Nouméa, Nouvelle-Calédonie : Communauté du Pacifique. 110 p -

https://www.spc.int/DigitalLibrary/Doc/CCES/RESCCUE/Vanuatu/RESCCUE_Vanuatu_Community_Marine_Monitoring_Toolkit_2018.html

Anon. 2018. SPC [Traditional Marine Resource Management and Knowledge Information](#) Bulletin 39. Noumea, New Caledonia: Pacific Community. 40 p. -

[Correlated effects of ocean acidification and warming on behavioral and metabolic traits of a large pelagic fish](#) Laubenstein T.D., Rummer J.L., Nicol S., Parsons D.M., Pether S.M.J., Pope S., Smith N., Munday P.L. 2018. Correlated effects of ocean acidification and warming on behavioral and metabolic traits of a large pelagic fish. *Diversity* 2018, 10, 35; doi:10.3390/d10020035

Ocean warming has a greater effect than acidification on the early life history development and swimming performance of a large circum-global pelagic fish. Watson S-A, Allan BJM, McQueen DE, et al. *Glob Change Biol.* 2018;00:1–18. <https://doi.org/10.1111/gcb.14290>

[Community-based Marine Management: A guide for effective tabu areas](#)

2018. Vanuatu Community-based Marine Management: a guide for effective tabu areas. Noumea, New Caledonia : Pacific Community. 16 p

[Informing community-based fisheries management with spawning potential surveys](#)

Prince J.D. 2018. Informing community-based fisheries management with spawning potential surveys. *SPC Fisheries Newsletter* 154:43–52.

[A new climate change vulnerability assessment for fisheries and aquaculture](#)

Bell J., Bahri T. 2018. A new climate change vulnerability assessment for fisheries and aquaculture. *SPC Fisheries Newsletter* 156:43–56.

[Community Marine Monitoring Toolkit: A locally-developed toolkit to inform community-based management of marine resources in Vanuatu](#)

Johnson J., Welch D., Hooper E., Edney G., Waterhouse J., Kaltavara J. 2018. Community Marine Monitoring Toolkit: A locally-developed toolkit to inform community-based management of marine resources in Vanuatu. *SPC Fisheries Newsletter* 155:2–6

Gattuso, J.-P. Magnan, A., Bopp, L., Cheung, W., Duarte, C.M., Hinkel, J., Mcleod, E., Micheli, F., Oschlies, A., Williamson, P., Billé, R., Chalastani, V.I., Gates, R.D., Irissou, J.-O., Middelburg, J.J.,

Pörtner, H.-O., Rau, G.H. 2018. Ocean Solutions to Address Climate Change and Its Effects on Marine Ecosystems. *Frontiers in Marine Science* 5(337): 10.3389/fmars.2018.00337

m. **General Information.** (Note that this information will be posted on the ICRI website on your member page: <http://www.icriforum.org/about-icri/members-networks>.)

Member type (Country / Organisation):	
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