

## Open Space Record Sheet

You have volunteered to facilitate a small group around an idea. By the end of the discussion – which may last up to one hour – you should be able to provide the following information (please fill in the sheet after the activity and try to capture the contributions of the other participants):

The name of the proposed activity/ idea	Implementation of a functional method in ciguatera toxin detection in fine samples		
Important elements of the proposed activity	Use ciguatera target as source of RGA – (N channels, K channel, TRVAA1 channels) Boris Resource		
Its rationale (which societal issues it addresses, how it integrates into scientific cooperation needs, or how it qualifies as an innovation niche)	Ciguatera detection in fish samples innovative niche		
To which other initiatives, if any, it connects.	Ciguatera poisoning		
Who would be the beneficiaries?	All members of consortium		
What are the resources needed (money, time, and skills)?	Money, time, skills already exist for been successful with other detection systems		
Who is/ are the champion(s) of this initiative (names of persons and institutions)?	CNRS – CEA (Molgo, Servent, ... ILM (Chinain)		
What are specific next steps to make it happen and when (timeline). Who is responsible for each step?	What?	By when?	Who assures?

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The name of the proposed activity/ idea	REGIONAL HAB CFP DATA SHARING PROJECT		
Important elements of the proposed activity	DATA: -COLLECTION - COMPILATION - SHARING - DISSIMINATION SYNTHESIS USING EXISTING DATA SYSTEMS HAEDAT+OBIS+NEW OB  DATA : CFP, ENVIRONMENTAL; MEDICAL, SPECIES, TOXINS		
Its rationale (which societal issues it addresses, how it integrates into scientific cooperation needs, or how it qualifies as an innovation niche)	- FOOD SECURITY CAPACITY - KNOWLEDGE SHARING AND ENHANCED - ENHANCED DOCUMENTATION & RECOG. OF HAB/S CFP - REEATEMP - PACRIS - CIGUATERA ONLINE.COM - GOOS - IFRECOR		
To which other initiatives, if any, it connects.	- NASA, SPC, SOPAC, USP - GLOBAL HABS/SOC-UNESCO –SOPAC-IAEA - REGIONAL CENTRE - REGIONAL REVIEW - STANDARDIZED SAMPLING - .... MEDICAL DATA		
Who would be the beneficiaries?	- GOVT, SCIENTIST, PUBLIC		
What are the resources needed (money, time, and skills)?	- TRAINING OF DATA PROVIDERS, WORK GROUP, LOCAL IT, EXPERT, Q A EXPERT 3 – 4 YEARS ESTAB. PHASE + NATIONAL FOCAL POINT NETWORK		
Who is/ are the champion(s) of this initiative (names of persons and institutions)?	- UNC - U/C / VLIZ - LANDCARENZ		
What are specific next steps to make it happen and when (timeline). Who is responsible for each step?	What?	By when?	Who assures?
	IDENTIFY INFRASTRUCTURE AND DATA TYPES	2Q 2015	UNC LANDCAR
	TECH W6 FOR FOCAL POINTS	2Q 2015	Mireille GOPS

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The name of the proposed activity/ idea	PHYSICAL BIOLOGICAL + CHEMICAL CHARACTERISATION OF HAB AND NON-HAB SITES		
Important elements of the proposed activity	<ul style="list-style-type: none"> <li>- Identify HAB and non HAB sites</li> <li>- Identify important parameters, standardized survey protocols</li> <li>- Review existing data/knowledge</li> <li>- Toxicity assessment of reef organisms, effect on organism</li> </ul>		
Its rationale (which societal issues it addresses, how it integrates into scientific cooperation needs, or how it qualifies as an innovation niche)	<ul style="list-style-type: none"> <li>- Apply innovative molecular method to describes biodiversity of HABS + other bio toxin detection</li> <li>- inovate</li> <li>- Societal impact of test degradation</li> <li>- Food security safety</li> <li>- Target reef management</li> <li>- Collaboration between managers ecologist analytical scientist</li> </ul>		
To which other initiatives, if any, it connects.	Habs monitoring capacity building development of standardized monitoring+ database development		
Who would be the beneficiaries?	Communities, Managers, Scientists, practitioners		
What are the resources needed (money, time, and skills)?	Logistic/travel, loggers, analysis of samples, government agencies, scientific equipment tools, lab spaces		
Who is/ are the champion(s) of this initiative (names of persons and institutions)?	Sebastian, 2MT, Peter, JCBM		
What are specific next steps to make it happen and when (timeline). Who is responsible for each step?	What?	By when?	Who assures?
	Seek funding to develop: 1/ standardized pictocell 2/choose test site 3/ analysis samples 4/inform/deliver data for large grant application		

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The name of the proposed activity/ idea	Monitoring HABs for Small Island States		
Important elements of the proposed activity	Follow up support after workshop on HABs monitoring with expertise on field work, identification		
Its rationale (which societal issues it addresses, how it integrates into scientific cooperation needs, or how it qualifies as an innovation niche)	Monitoring HABs and environmental parameters to support knowledge explicit for a bio indicator and easy warning systems to HABS and CFP		
To which other initiatives, if any, it connects.	Build on previous workshops to outbreak encourage monitoring and support		
Who would be the beneficiaries?	Local communities and public ecosystem health		
What are the resources needed (money, time, and skills)?	\$, equipment, and skills (technical)		
Who is/ are the champion(s) of this initiative (names of persons and institutions)?	Mark Skinner and Brad Moore (PIs) WHO, BPC, PACE NET, ACAR, ILM, UNESCO		
What are specific next steps to make it happen and when (timeline). Who is responsible for each step?	What?	By when?	Who assures?
	Funding	Before workshop	collaboration
	Equipment supplied	workshop	
	Country visits 3 <sup>rd</sup> .... after workshop for 6 months – RA x3		

	Reporting	2 months	
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The name of the proposed activity/ idea	Regional workshop for building capacity of PICT fishers Offices in monitoring HABs		
Important elements of the proposed activity	Funding sought to hold a regional workshop that will (re) train PICT fisheries offices in monitoring on HAB species on reef environment Training tailored to PICT Training compatible with IAEA capacities		
Its rationale (which societal issues it addresses, how it integrates into scientific cooperation needs, or how it qualifies as an innovation niche)	Monitoring of HABs on reefs will help develop knowledge of HAB systems and help provide ability to predict how Blooms will occur.		
To which other initiatives, if any, it connects.	Build on previous regional workshop in 2013 by USP/WHO/SPC + think tank projects		
Who would be the beneficiaries?	Local communities fisheries & environment officers (needs integration amongst agencies)		
What are the resources needed (money, time, and skills)?	Funding to support participant to a regional hub + monitoring kits for PICTs		
Who is/ are the champion(s) of this initiative (names of persons and institutions)?	SPC as a regional coordinator (Brad Moore) in partnership with regional and international HAB aspects (e.g. Mark Skinner WHO) + PICTs		
What are specific next steps to make it happen and when (timeline). Who is responsible for each step?	What?	By when?	Who assures?
	Develop of products and projects partners	2 months	SPC/Collaborators
	Invitations sent	3 months	SPC/Collaborators
	workshop	6 months	all

	Follow up workshop (....)	18 months	all

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The name of the proposed activity/ idea	Pilot Multidisciplinary approach Monitoring HAB program		
Important elements of the proposed activity	Multidisciplinary approach 3 pilot sites to cover the range of environmental situation across the Pacific 3/5 years Design of future system Stage 1: workshop to define protocol (what, where, when, how often) historical data mining/data management Stage 2: implementation (4 initial analysis) Stage 3: Reporting		
Its rationale (which societal issues it addresses, how it integrates into scientific cooperation needs, or how it qualifies as an innovation niche)	Address the need for reliable, robust long term data Answers the need of all scientific areas: climate, marine ecology /+ chemistry+physics), fisheries epidemiology, social science / geography		
To which other initiatives, if any, it connects.			
Who would be the beneficiaries?	Pacific Island countries – the scientific community		
What are the resources needed (money, time, and skills)?	Richard Farman, Hilary Bambrick, Simon Hales		
Who is/ are the champion(s) of this initiative (names of persons and institutions)?	? SPC ? Melanie Roué Hugues Lemonnier Mark Durand		
What are specific next steps to make it happen and when (timeline). Who is responsible for each step?	What?	By when?	Who assures?
	workshop Standardized monitoring plan	2015	
	First field trip	2016	

	Second	2017	
	Third	2018	

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The name of the proposed activity/ idea	Regional (Pacific) Centre for HAB
Important elements of the proposed activity	Multi-disciplinary approach to R & D. Oceanography/Env/Policy Food safety Toxicologists Ecologists Social / Economic Medical Algal Specialists IT/admin Scientist community based Capacity building Coordination of network / status reports Provide back-up support for all HAB activities Communication / IT hub Data various types: UN Ocean Biogeographic Lifewater System, Harmful Algal Event Data, IOC/UNESCO
Its rationale (which societal issues it addresses, how it integrates into scientific cooperation needs, or how it qualifies as an innovation niche)	Mechanism – infrastructure – governance Focal point for int. collaboration with EU partners/Aus/NZ/US Use 14 regional campuses in 12 countries (USP) Improve efficiency of HAB regional activities Links to North : Guam Links Fisheries and Environment
To which other initiatives, if any, it connects.	All
Who would be the beneficiaries?	Populations/ R&D community/ Educational/ Health / Food security/ blue economy
What are the resources needed (money, time, and skills)?	
Who is/ are the champion(s) of this initiative (names of persons and	Pacific regional governments, SPC, PPHSN – Pacific Public Health Surveillance Network WWF, WHO, UNESCO, FAO Institute of USP (Pace /Institute of applied Sciences/ Institute of

institutions)?	Marine resources		
What are specific next steps to make it happen and when (timeline). Who is responsible for each step?	What?	By when?	Who assures?
	Seed money	2015	

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The name of the proposed activity/ idea	Regional review of CFP/HABs impacts CFP Ecosystem Health : shellfish poisoning/historical ..... / ..... blooms, red tides, farma kill, slomboroides		
Important elements of the proposed activity	<ul style="list-style-type: none"> <li>- Interactive (review, data mining desktop</li> <li>- grey literature from government agencies</li> <li>- Gathering local information questionnaire</li> <li>- Conceptual models, remote sensing</li> <li>- Publish reef reports &amp; outbreak mapping reef check</li> </ul>		
Its rationale (which societal issues it addresses, how it integrates into scientific cooperation needs, or how it qualifies as an innovation niche)	<ul style="list-style-type: none"> <li>- Lack of knowledge (data)</li> <li>- Responding to good safety, issue (....) out sneaks,</li> <li>- Mangement response to the situation</li> </ul>		
To which other initiatives, if any, it connects.	Multi-disciplinary approach/foundation of others projects Capacity building to centres		
Who would be the beneficiaries?	Local communities, scientists, govt, office fisheries stock protection I, A , E, B		
What are the resources needed (money, time, and skills)?	..... / multi skilling		
Who is/ are the champion(s) of this initiative (names of persons and institutions)?	Amanda Reichelt Brushett Mark Skinner and Simon Albert Sebastian Ferse and Brad Moore		
What are specific next steps to make it happen and when (timeline). Who is	What?	By when?	Who assures?
	Literature and data review/questionnaires	3 months	Pls ....



responsible for each step?  TOTAL 12 MONTHS	.... literature ....., SPC	3 months	
	Contracting organisation	3 months	
	Department compiling data	1 month	
	Write .... Kuxkon: .... Data analysis ..... of phase .....	2 months	

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The name of the proposed activity/ idea	Inventory of tradional knowledge - Phase 1		
Important elements of the proposed activity BUILDING baseline	Define 4 categories .... Traditional knowledge <ul style="list-style-type: none"> <li>- Site of occurance / hot spots – traditional</li> <li>- Species of fish</li> <li>- Seasonality</li> <li>- Treatment with the use of herbal plant/medicine</li> <li>- Status and history Ecosystem/natural events ... site/ location and stress</li> </ul>		
Its rationale (which societal issues it addresses, how it integrates into scientific cooperation needs, or how it qualifies as an innovation niche)	Document of traditional knowledge is important for information, to be ..., a not lost esp. essential & ... information Observe trends and changes over time as baseline Future research Eg in national archives Phase 2 – Identification active ingredients for treatments		
To which other initiatives, if any, it connects.	... history HABs in the Pacific The regional center for R&D / capacity in HAB coordinator Experimentation ... ciguatera treatment		
Who would be the beneficiaries?	Population, communities – PI , scientific communities		
What are the resources needed (money, time, and skills)?	Policy makers, practitioners, CFP victims Money funding , expertise – local + international adviser		
Who is/ are the champion(s) of this initiative (names of persons and institutions)?	Jimaima – USP pacific center, IRD French Polynesia, University of Papua New Guinea		
What are specific next steps to make it happen and when (timeline). Who is responsible for each step?	What?	By when?	Who assures?
	Seed funding to develop concept + project specific	2015	USP
	Literature review with .... Data base Train someone in END		

	NOTE		
	Student projects		
	Identify key people .... in center areas/listed at in .... page		
	Interview in country partners Conducted in local language Recording interview Developing documentaries and digital: national geographic information		

Contact points within countries

Ralph Mana – UPNG

Teina Rongo – Cook Islands

Melanie Roué – IRD French Polynesia

Shilpa Kumar Roiné – AEL New Caledonia

Mekba White – Marshall Islands

George Hoa'au – Solomon Islands (Ministry of Health)

Rosalie Masu Sols Ministry of Fisheries

Paeniu Lopati Tuvalu Ministry of Fisheries

Justin Aiafi Samoa Ministry of Fisheries

Siloa Malimali (Fisherie division, Tonga)

Taema Imo Seuoti (National University of Samoa)

Patila Amosa (National University of Samoa)