Evaluation of the Community Engagement Program (CEP), December 2002.

Jeff Kinch¹ and Modi Pontio²

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Milne Bay Community-based Coastal and Marine Conservation Program



¹ Community Development and Artisanal Fisheries Specialist
² Community Trainer



Introduction

After two Community Engagement Program (CEP) patrols in the later half of 2002 (September and December) it was decided by the Community Development Specialist (CDS) and the Community Trainer (CT) to do an assessment and evaluation of the trainings, briefing and debriefing sessions, and patrols to date. Personal thoughts about the CEP, patrols and the briefing and debriefing sessions were collected individually from Village Trainers (VTs) in private interviews. The evaluation was deemed necessary to help the CEP in coordinating its activity and training programs. The CDS and the CT then reviewed the patrol reports, discussed needs and further actions, and these are listed below.

Progress to Date

The CEP is currently working in 15 communities. These include Panaeati, Panapompom, Motorina, Brooker, Ware, Anagusa, Tewatewa, Kwaraiwa, Skelton, Tubetube, Dawson, Nuakata, Iabam, Pahilele and East Cape communities. The communities at Motorina, Dawson and Anagusa were included after the first patrol after requests from neighbouring communities.

- The first patrol went through a process of rooting people in their history, distinguishing between 'cargo' and community development and self-reliance. They were then asked about their own perceptions of resource status and were given Community Profiles (which had been translated into the local languages), which outlined their past and present population status, land area and the results of last years stock assessment for beche-de-mer and other commercially valuable resources. From this action, community interest was generated on how to manage resources for sustainability. Concepts that were outlined included the establishment of set-asides (using the analogies of hospitals and banks) and management plans.
- The second patrol, utilising the catalyst of the first patrol has seen several communities begin discussions amongst themselves to designate reef areas for sustainable fisheries management or have started improvising management plans for certain areas or fisheries. This patrol was used to disseminate education and awareness materials on marine resources (these also had been translated into the local languages). The Misima team also participated in the first Brooker-Ware territorial mediation over the extensive Long-Kosmann reef area at Ware and patrolled again for a shorter period after this to attend the second mediation at Brooker, and to conduct workshops at Motorina Island.

Proposed Locally Managed Marine Areas (LMMAs) or management strategies for each Area of Interest (AOI) to date are as follows:

- Nuakata Islanders in AOI 1 have now set some rules on the harvest of the marine resources, which includes the banning the use of derris root.
- Skelton, Kwaraiwa and Tubetube Islanders in AOI 2 have expressed an interest to setting-up LMMAs, (these are not yet defined) for management. This is despite the uninformed intentions and the subsequent confusion created by Conservation International's (CI's) Chief Executive Officer's (CEO') sojourn and the later visit by the National Department of Lands and Physical Planning (NDLPP) in October. The VTs have done well to quell misconceptions and rumours generated by these visits.
- Brooker Islanders in AOI 3 are currently negotiating amongst themselves to set up several LMMAs over reefs surrounding Panuabwaubwa, Yotovi, Panasial, Abowat and Ehiki Islands to allow beche-de-mer stocks to regenerate. Recently Brooker people also discussed the probability of setting up an LMMA around Lal Island. On Panasial it has been proposed that the cutting of trees will be restricted.



The CEP is preparing for its third patrol in March and will assess community initiatives so far. We are making progress but the CEP should not be pushed or rushed to meet 'higher' agendas but rather controlled by the communities, so true conviction, co-operation and commitment can be developed at their own pace. This will ensure that any LMMAs that are developed by communities are truly 'community-owned and driven'. There is also an urgent need for the services of a Fisheries Ecologist/Marine Biologist to assist communities in formalising and assisting communities in their selection of LMMAs. Islands in the targeted areas are owned by clans, because of this, large scale Marine Protected Areas (MPAs) or strict 'no-take zones' are not practical or culturally feasible for reef owning communities. Therefore there will also be a need to incorporate genealogy work in setting up LMMAs.

Finally, the news about the program is spreading and we are getting many requests from communities both inside and outside the program area to have awareness done with their communities.



Issues provided by Village Trainers (not in any order of importance)

Operational Issues

- No job descriptions for VTs and Area Coordinators (ACs).
 - Action Taken: The CDS has started formulating duty statements for VTs.
 - *Recommendation: Review the need for ACs (main responsibility is organizing logistics, and as interface for villagers and LLGs).*
 - No prescribed format for patrol reports.
 - Action Taken: The CDS has developed a new format, which will now be adopted. Format will serve as reminder to help VTs record good accounts of events while on patrol.
 - No briefing on the project for the Maramatana LLG, because of this, Councilors are not fully aware of the project and are therefore not as cooperative as could be.
 - o Action Taken: Maramatana Area Manager was briefed on 6th February 2003.
 - *Recommendation: CDS and CT to maintain contact with all LLGs where VTs are operating.*
 - Shortage of food on patrols and in the village.
 - o Recommendation: Enough food to be taken on patrols.
 - Recommendation: VTs to be sensitive about shortage of food in villages.
 - Need for more team building exercises.
 - Recommendation: VTs to be put through more team building exercises.
 - Some VTs not been given enough opportunity whilst in briefing and debriefing sessions, and on patrol.
 - Recommendation: VTs to be put through more team building exercises.
 - VTs rely on one member of team to take notes. All should take turns doing everything.
 - *Recommendation: VTs to be put through an Adult Literacy Course.*
 - Recommendation: VTs to be put through more team building exercises.
 - Some VTs have a tendency to instigate issues and force others to get involved. The pay issue was discussed at the time of employment and all agreed to it before joining. Those not happy with it should be asked to resign as it is causing gossip and conflict amongst other VTs.
 - *Recommendation: VTs to revisit pay schedule, benefits and probationary period.*
 - Action Taken: Wages to be increased in line with the Consumer Price Index to keep up with rises in cost of living.
 - Some VTs were not very clear on what teams were supposed to do on the second patrol in the community.
 - Recommendation: Plans to be outlined and 'role' played before each patrol in the briefing session. This is now deemed necessary, as the VTs will have a greater role in deciding activities and communities to work with. Some communities will need more time than others.

- Inadequate accommodation for some VETs whilst on patrol (Misima team is okay).
 - Recommendation: Utilise EMB's materials (for a nominal fee) as they are specifically geared up for outdoor education camps or purchase tents for VETs.
- Need for a third dinghy for the Nuakata/Alotau VET.
 - *Recommendation: Dinghy and outboard with necessary equipment to be purchased.*
 - o Action Taken: Quotations obtained from Samarai Plastics and Ela Motors.
- Need to get insurance for VTs and community members that travel on patrol dinghies.
 Action Taken: CBC Finance Manager has begun consultation with insurance companies on conditions and rates.

Safety Issues

- Have the radios working in the boats.
 - Action Taken: Radios repaired.
 - Action Taken: Inventory of all equipment and replaced as needed. Additional equipment to be supplied: fuel tanks, spare parts, camera, Coleman lamp, canvas (and/or tent) and possibly a Primus stove.
 - Recommendation: Checklists of dinghy safety and general equipment to be checked by CDS or CT before and after every patrol (Note: this responsibility will be handed over to Education Milne Bay (EMB) where the dinghy will be stored and the CEP will be based).
 - *Recommendation: Regular maintenance to be done after and prior to every patrol (Note: this responsibility will be handed over to EMB).*
- Some members of the team are playing the role of others, example taking over the role of the boat operator and making decisions on the movement of the boat instead of consulting with the boat operator first.
 - *Recommendation: Dinghy operator to be responsible for all movements of dinghy. This is to be done in consultation with the Patrol Leader.*

Gender Issues

- Male members need to accept women as equal members of the team.
 - *Recommendation: All VETs to have one woman in the team.*
 - *Recommendation: VTs to be given training on gender issues and equity.*
 - o Recommendation: VTs to revisit 'Common Qualities of Healthy Effective Teams'.
 - *Recommendation: VTs to be put through more team building exercises.*

Personality and Respect Issues

- Some VTs are too domineering.
 - *Recommendation: Individuals to receive counseling.*
 - o Recommendation: VTs to revisit 'Common Qualities of Healthy Effective Teams'.
 - *Recommendation: VTs to be put through more team building exercises.*



- Some VTs need to control their temper and accept being corrected.
 - Recommendation: Individuals to receive counseling.
 - Recommendation: VTs to revisit 'Common Qualities of Healthy Effective Teams'.
 - *Recommendation: VTs to be put through more team building exercises.*
- VTs to treat each other as equal members of the team.
 - o Recommendation: VTs to revisit 'Common Qualities of Healthy Effective Teams'.
 - Recommendation: VTs to be put through more team building exercises.
- Need to speak a language that all can understand to avoid gossiping and joking about other VTs.
 - *Recommendation: VTs to use the common language of English when in the company of VTs from other areas.*
- Some VTs using obscene language in briefing and debriefing sessions and whilst on patrol.
 - *Recommendation: VTs to refrain from using coarse language.*
 - *Recommendation: VTs to be made aware of guidelines (rules) for being a VT and review if necessary.*
 - Recommendation: VTs to revisit qualities of being a VT.
- There is no confidentiality amongst the VTs.
 - *Recommendation: VTs to make more use of the 'talking wall' in briefing and debriefing sessions.*
 - *Recommendation: Issues relating to individuals in the CEP are to be dealt with by those personally involved.*
 - *Recommendation: Issues related to the CEP are to be dealt with the individual in question, the Patrol Leader, the CDS and the CT.*
 - *Recommendation: VTs to look at selecting a VT Representative.*



Other Issues from the CDS and the CT (not in any order of importance)

- Training needs of VTs need to be identified and prioritised. Training programs needs on (not in any order of importance):
 - Conflict management
 - Finance and money management
 - PRA tools
 - Computer skills, literacy and report writing
 - Leadership
 - Local Level Government, its laws and its functions
 - Legal issues
 - LMMAs
 - Gender issues and equity
 - Agriculture (particularly for SLUNP)
 - Marine resources and reproduction
 - Fisheries management
 - Appropriate technology
 - Radio procedures and GPS use
 - First aid and sea safety
 - *Recommendation: Identify and prioritise training needs and develop a suitable schedule for implementation.*
 - *Recommendation: Investigate the potential for an exchange or visitation program by VTs with the Bismarck Ramu Group (BRG) operating in Madang Province.*
- Inadequate training and accommodation facilities.
 - Action Taken: A new office, training, operations and accommodation facility is presently under construction by EMB.
 - *Recommendation: Communicate the schedule of use to VTs.*
- No District Office at Bwagaoia at Misima for Misima Area Manager and SLUNP.
 - Action Taken: Program Manager has written letter to the District Administrator requesting use of unoccupied office space with Division of Agriculture and Lands.
 - Action Taken: VTs have looked for space with Bwagaoia Community Hall, Uniting Church, Women's Guest House and a local storeowner.
 - *Recommendation: Obtain lease on space immediately, preferably within the District Administration office.*
- No Fisheries Ecologist/Marine Biologist on staff to help VTs with communicating to communities appropriate areas for LMMAs and to assist in stock abundance modelling of commercially valuable resources. This delay is affecting the CEP and its activities.
 - Action Taken: A Fisheries Ecologist/Marine Biologist has been advertised for and screening will soon commence.
 - o Recommendation: Communicate this to target communities on the next patrol.



- CDS and CT are overburdened with producing education and awareness materials (though the CDS and CT have a very good understanding of community needs in this area).
 - Action Taken: A Communications and Education Officers have been advertised for and screening will soon commence. The CDS and CT will continue to provide input into materials needed.
 - Recommendation: Communications Officer in collaboration with EMB to investigate the potential of a theater performance on marine resource management (similar to 'Wan Smalbag' from Vanuatu, or the work by BRG in Madang and the East Sepik Provinces).
 - Recommendation: A CD disc player with screen (run on a solar panel) is purchased to enable the CEP to show relative materials to targeted communities.
- Need to mitigate the interference from by CI senior management (also raised by the communities after the CEO sojourn and NDLPP visit) and the confusion that it creates.
 - *Recommendation: Visits by senior management to be closely coordinated with the CDS, CT and VTs for the area.*
 - *Recommendation: Councilors to be informed prior to any future visits by senior management.*
 - o Action Taken: Guidelines disseminated to immediate senior managers.
 - *Recommendation: Any changes to the CEP to go before the CTA and the Steering Committee, and to be in line with the principals of good adaptive management.*
- Need for some training to communities.
 - Recommendation: CDS in consultation with the CT and VETs to discuss what the needs are for community training (these will be generated from community forums on their needs). Such areas may include (not in any order of importance):
 - Community development
 - Community organising
 - Ward Development Planning
 - LMMA set up
 - Leadership, government and governance
 - Finance and money management
 - Appropriate technology
 - Health and hygiene (as part of the SLUNP)
 - Nutrition (as part of the SLUNP)
 - Agriculture (as part of the SLUNP, eg: making soap and cooking oil from coconuts)
 - Gender
 - Literacy
 - Resource management and conservation
 - Fisheries management
 - Marine biology
 - PRA



- Need to initiate Church program as the Church is the main mobilier of communities and is an important source for awareness dissemination.
 - Recommendation: Initiate contact with Church groups and assess receptiveness to act as awareness disseminators on resource management and conservation.
 - *Recommendation: To network and build alliances in the Church hierarchy.*
 - *Recommendation: Have VTs initiate wider discussions when staying with local pastors or when being cared for by the Women Fellowships.*
 - *Recommendation: To do awareness in the pastoral training colleges with those training to become tomorrow's pastors.*
 - Action Taken: A Communications and Education Officers have been advertised for and screening will soon commence. The CDS and CT will continue to provide input into actions needed.
 - *Recommendation: Collaborate with BRG with their 'Christians for Environmental Stewardship' program.*
- Need to offer alternatives for income generation (all communities are requesting assistance in setting up mariculture initiatives, particularly clam farms).
 - *Recommendation: CDS to develop a 'Manual for Community-based Giant Clam Farming' and other materials on seaweed and other mariculture alternatives.*
 - Recommendation: CDS and the Fisheries Ecologist/Marine Biologist with collaboration from the NFA and the PFA to develop an extension team (to work parallel with the VETs) on better processing of existing utilized marine resources and mariculture initiatives.
 - Recommendation: CEP to assist communities in organizing themselves into resource owners associations where they can bargain with exports for better prices for marine resources.
 - *Recommendation: CDS to pursue in collaboration with the SLUNP, appropriate agriculture developments and viable cash cropping.*
 - *Recommendation: VTs to disseminate awareness on new copra buying company in Alotau.*
 - *Recommendation: CDS in collaboration with the Tourism Extension Officer to assist communities with small tourism development (where feasible) and strengthen the dive fee schedule.*
 - Action Taken: A Tourism Extension Officer has been advertised for and screening will soon commence. The CDS and CT will continue to provide input into actions needed.
 - *Recommendation: CEP to collaborate and provide input into Education Milne Bay's eco-tourism extension program.*
 - *Recommendation: CEP to collaborate and provide input into the ADB and EU fisheries development projects.*
- Need to identify territorial boundaries and ownership (through genealogies) of islands/reefs.
 - *Recommendation: Conduct genealogy studies for areas that are suggested by communities for LMMAs, and areas of high priority.*
 - *Recommendation: Collaborate with Division Land and Physical Planning on delineating boundaries.*
 - o Recommendation: Assist in mediation with disputing communities.
 - Recommendation: Map boundaries to be drawn on high-resolution airphotographs once a consensus is reached.

- Inadequate photocopying and printing facilities to produce awareness materials.
 - Action Taken: The Finance Manager and the IT Specialist have begun the process of purchasing a suitable colour photocopy.
 - *Recommendation: Existing colour printer be serviced or replaced.*
 - *Recommendation: Separate photocopier and printer are purchased for the new CEP office at the EMB facility (EMB have expressed an interest in paying a surcharge for access to this equipment).*
- Inadequate translation services to produce awareness materials.
 - *Recommendation: CDS and CT to look for suitably educated people to be able to offer high quality translation services.*
 - Recommendation: CDS to investigate any role for the Summer Institute of Linguistics (currently their fees are to high for the volume of translation we need done). They may feel more inclined to translate materials that have a religious bent.



Reference Materials Related to and/or Produced for the CEP

CEP Materials

Sando, F.; Taupili, W.; Metu, E. and Daniel, R. 2002. *Nuakata/East Cape Community Entry Patrol Report, No.: 2; November 16 to 06 December, 2002.* A Report prepared for Conservation International, Alotau, Milne Bay Province, Papua New Guinea. Pp: 15.

Lima, N.; Leman, L.; Otto, I. And Pontio, M. 2002. *Bwanabwana District Community Entry Patrol Report, No.: 2; November 16 to 06 December, 2002.* A Report prepared for Conservation International, Alotau, Milne Bay Province, Papua New Guinea. Pp: 11.

Betuel, L.; Naidi, M.; Graham, C. and Bueta, A. 2002. *Misima District Community Entry Patrol Report, No.: 2; November 16 to 06 December, 2002.* A Report prepared for Conservation International, Alotau, Milne Bay Province, Papua New Guinea. Pp: 13.

Betuel, L.; Naidi, M.; Graham, C. and Bueta, A. in prep. *Misima District Community Entry Patrol Supplementary Report, December 16 to December 23*. A Report prepared for Conservation International, Alotau, Milne Bay Province, Papua New Guinea.

Sando, F.; Taupili, W.; Metu, E. and Daniel, R. 2002. *Nuakata/East Cape Community Entry Patrol Report, No.: 1; August 31 to September 28, 2002.* A Report prepared for Conservation International, Alotau, Milne Bay Province, Papua New Guinea. Pp: 20.

Lima, N.; Leman, L.; Otto, I. And Pontio, M. 2002. *Bwanabwana District Community Entry Patrol Report, No.: 1; August 31 to September 28, 2002.* A Report prepared for Conservation International, Alotau, Milne Bay Province, Papua New Guinea. Pp: 24.

Kinch, J.; Graham, C.; Bueta, A.; Nadi, M.; Betuel, L. 2002. *Misima District Community Entry Patrol Report, No.: 1; August 31 to September 28, 2002.* A Report prepared for Conservation International, Alotau, Milne Bay Province, Papua New Guinea. Pp: 24.

Mitchell, D. 2002. *Patrol Report: Visit to Kwaraiwa and Anagusa Islands with the National Department of Lands and Physical Planning, 21-24 October.* A Report prepared for Conservation International, Alotau, Milne Bay Province, Papua New Guinea. Pp: 6.

James, G. 2002. Summary Report of the Meetings held with Village Leaders and Community Members at Anagusa and Kwairaiwa Islands on the $22^{nd} - 24^{th}$ October 2002. A Report prepared for National Department of Lands and Physical Planning, Port Moresby, and Conservation International, Alotau, Milne Bay Province, Papua New Guinea. Pp: 21.

Kinch, J and Pontio, M. 2002. *Learning Together: Participatory Tools for Community Engagement*. A Training Manual prepared for Conservation International, Alotau, Milne Bay Province, Papua New Guinea. Pp: 32.

Pontio, M. 2002. *Report on the Pacific Islands Community-based Training Course*. A Report prepared for Conservation International, Alotau, Milne Bay Province, Papua New Guinea.

Pontio, M. 2002. *Report on Attachment Training with the Bismarck Ramu Group*. A Report prepared for Conservation International, Alotau, Milne Bay Province, Papua New Guinea.



Pontio, M. 2002. *Report on the Bubuleta VET Selection and Training Workshop*. A Report prepared for Conservation International, Alotau, Milne Bay Province, Papua New Guinea.

Kinch, J. 2000. *Participatory Tools for the Milne Bay Marine Integrated Conservation and Development Program*. A Report prepared for Conservation International, Alotau, Milne Bay Province, Papua New Guinea. Pp: 14.

Mitchell, D., Kinch, J. and Seta, B. 2000. *Milne Bay Province-wide Assessment*. A Report prepared for Conservation International, Alotau, Milne Bay Province, Papua New Guinea. Pp: 62.

Mitchell, D. 2000. *Patrol Report for the Engineer - Conflict islands: 10-14 November*. A Report prepared for Conservation International, Alotau, Milne Bay Province, Papua New Guinea. Pp: 3.

Mitchell, D. 2000. *Patrol Report for the Nuakata and Iabam Islands: 21-24 October*. A Report prepared for Conservation International, Alotau, Milne Bay Province, Papua New Guinea. Pp: 2.

Kinch, J. 2000. Ward Development Committees Versus Community Development Teams: Developing a Rationale for Community Entry in the Milne Bay Marine Integrated and Development Program. A Paper presented at the United Nation's Milne Bay Community-Based Coastal and Marine Conservation Program's Mission, Aug 5-11, Alotau, Milne Bay Province, Papua New Guinea. Pp: 8.

Kinch, J. 2000. *Village Profiles: Bwanabwana District, Milne Bay Province*. A Report prepared for Conservation International, Alotau, Milne Bay Province, Papua New Guinea. Pp: 13.

Kinch, J. 2000. *Village Profiles: Sudest, Rossel and Calvados Areas, Milne Bay Province.* A Report prepared for Conservation International, Alotau, Milne Bay Province, Papua New Guinea. Pp: 14.

Community Education and Awareness Materials

Kinch, J. 2002. *Stock Assessment Results for the Louisiade Rural LLG*. A Report to the Councillors of the Louisiade Rural Local Level Government, Bwagaoia, Milne Bay Province, Papua New Guinea. Pp: 11.

Kinch, J. 2002. *Stock Assessment Results for the Bwanabwana Rural LLG*. A Report to the Councillors of the Louisiade Rural Local Level Government, Bwagaoia, Milne Bay Province, Papua New Guinea. Pp: 11.

Kinch, J. 2002. *Community Resource Profiles for the Engineer Group, including Dawson and Anagusa Islands*. A Report to the Engineer Group Communities, Milne Bay Province, Papua New Guinea. Pp: 12. (Translated into the Tubetube language).

Kinch, J. 2002. *Community Resource Profiles for Motorina Island*. A Report to the Brooker Island Community, Milne Bay Province, Papua New Guinea. Pp: 13. (Translated into the Misima language).

Kinch, J. 2002. *Community Resource Profiles for Nuakata, Iabam and Pahilele Islands*. A Report to the Nuakata, Iabam and Pahilele Island Communities, Milne Bay Province, Papua New Guinea. Pp: 12. (Translated into the Tewala language).



Kinch, J. 2002. *Community Resource Profiles for the Deboyne Islands*. A Report to the Deboyne Island Communities, Milne Bay Province, Papua New Guinea. Pp: 12. (Translated into the Misima language).

Kinch, J. 2002. *Community Resource Profiles for Brooker Island*. A Report to the Brooker Island Community, Milne Bay Province, Papua New Guinea. Pp: 14. (Translated into the Misima language).

Kinch, J. 2002. *Community Resource Profiles for the Engineer Group*. A Report to the Engineer Group Communities, Milne Bay Province, Papua New Guinea. Pp: 12. (Translated into the Tubetube language).

Kinch, J. 2002. *Community Resource Profiles for Ware Island*. A Report to the Ware Island Community, Milne Bay Province, Papua New Guinea. Pp: 12. (Translated into the Tubetube language).

Kinch, J. 2002. Information Pamphlets: Guidelines for Village Trainers; Avoiding Notions of Dependency and Cargo; Emphasizing Self-Reliance and Self-Help; History Timelines; Community Engagement Patrols; Community Mapping; Community Entry Speech, Common Qualities of Healthy Effective Teams, and Report Writing. Educational Materials prepared for Conservation International, Alotau, Milne Bay Province, Papua New Guinea. Pp: 12.

Kinch, J. 2002. *Information Pamphlet: Results of the NFA/CSIRO 2001 Beche-de-mer Stock Assessment*. Awareness Materials prepared for Conservation International, Alotau, Milne Bay Province, Papua New Guinea. Pp: 5.

Kinch, J. 2002. Information Pamplets: Beche-de-mer Identification Including Minimum Live And Dry Size Lengths Restrictions: High Value and Low Value Species; Restrictions on Beche-de-mer Harvesting; Size Limits for Beche-de-mer; Marine Resources Reproduction (Spawning); Season Closure; Locally Managed Marine Areas; Use of Lead in Fishing for Beche-de-mer; and Total Allowable Catch (TAC). Educational Materials prepared for Conservation International, Alotau, Milne Bay Province, Papua New Guinea. Pp: 9. (Translated into the Misima, Tewala and Tubetube languages).

Kinch, J. 2002. *Information Pamphlets: Organic Law; Fauna and the Fisheries Management Acts*. Educational Materials prepared for Conservation International, Alotau, Milne Bay Province, Papua New Guinea. Pp: 2. (Translated into the Misima, Tewala and Tubetube languages).

Kinch, J. 2001. Information Pamphlets: Beche-de-mer; Clam; Trochus; Mud Crabs; Lobster; Sharks; Turtles; Mangroves; Seagrasses; Oil Pollution; Rubbish Disposal; and Fishing Zones and Limits. Educational Materials prepared for Conservation International, Alotau, Milne Bay Province, Papua New Guinea. Pp: 19. (Translated into the Misima, Tewala and Tubetube languages).

Kinch, J. 2000. (ed). *Results of the 2000 Marine Resources Survey and Assessment (Marine RAP) for the Louisiade Archipelago: Including Fishes, Corals and other Species found around the Brooker and Deboyne Islands*. A Report compiled for the Brooker and Deboyne Island Communities, Milne Bay Province, Papua New Guinea. Pp: 20.



Mitchell, D. 2000. (ed). A Review Summary of the Marine Rapid Assessment: Engineer/Conflict Island Groups. A Report compiled for the Engineer Group Communities, Milne Bay Province, Papua New Guinea. Pp: 18.

Mitchell, D. 2000. (ed). *A Review Summary of the Marine Rapid Assessment: Nuakata, Iabam and Pahilele Island Groups*. A Report compiled for the Nuakata, Iabam and Pahilele Island Communities, Milne Bay Province, Papua New Guinea. Pp: 24.

CMCP Materials

Kinch, J.; Bagita, J. and Bate, M. in prep. *Exploring the Potential for Seaweed Farming in the Milne Bay Province, Papua New Guinea*. Unpublished Manuscript.

Kinch, J. and Bagita, J. in prep. *Women in Fisheries in the Milne Bay Province, Papua New Guinea: Past Initiatives, the Present Situation and Future Possibilities.* Unpublished Manuscript.

Kinch, J. 2002. A Concept Paper for the Development of a Marine Science and Mariculture Research Station in the Conflict Group, Milne Bay Province, Papua New Guinea. A Proposal prepared for the South Pacific Regional Environment Program, Apia, Western Samoa. Pp: 7.

Kinch, J. and James, R. 2001. *Guidelines for Staff, Donors and Affiliated Researchers Visiting the Melanesian Centre for Biodiversity Conservation (CBC) Project Sites*. A set of Guidelines and Codes of Practices prepared for Conservation International, Washington D.C., United States of America. Pp: 5.

Kinch, J. 2001. Community Engagement for the Milne Bay Community-based Coastal and Marine Conservation Project: A Plan of Action. A Plan prepared for Conservation International, Alotau, Milne Bay Province, Papua New Guinea. Pp: 12.

Kinch, J.; Callister, G. and Mitchell, D. 2001. *Sustainable Land Use and Nutrition Program: Adaptation of Farming Methods on Small Islands in the Samarai-Murua District of the Milne Bay Province, Papua New Guinea.* A Proposal presented to the Human Resource Development Fund of the Government of Japan, Tokyo, Japan. Pp: 28.

Kinch, J. 2001. *Social Evaluation Study for the Milne Bay Community-Based Coastal and Marine Conservation Program.* A report to the United Nations Milne Bay Community-Based Coastal and Marine Conservation Program, PNG/99/G41, Port Moresby, Papua New Guinea. Pp: 183.

Kinch, J. 2001. *Stakeholder Participation Plan for the Milne Bay Community-Based Coastal and Marine Conservation Program*. A report to the United Nations Milne Bay Community-Based Coastal and Marine Conservation Program, PNG/99/G41, Port Moresby, Papua New Guinea. Pp: 71.

Mitchell, D.; Peters, J.; Cannon, J.; Holtz, C.; Kinch, J. and Seeto, P. 2001. *Sustainable Use Options Plan for the Milne Bay Community-Based Coastal and Marine Conservation Program*. A report to the United Nations Milne Bay Community-Based Coastal and Marine Conservation Program, PNG/99/G41, Port Moresby, Papua New Guinea. Pp: 151.

van Helden, F. 2001. *Policy and Planning Needs Assessment for the Milne Bay Community-Based Coastal and Marine Conservation Program*. A report to the United Nations Milne Bay Community-Based Coastal and Marine Conservation Program, PNG/99/G41, Port Moresby, Papua New Guinea. Pp: 112.

Crisler, T. 2001. *Monitoring and Evaluation Plan for the Milne Bay Community-based Coastal and Marine Conservation Program*. A report to the United Nations Milne Bay Community-Based Coastal and Marine Conservation Program, PNG/99/G41, Port Moresby, Papua New Guinea. Pp: 28.

Kinch, J. 2000. Brooker Island Versus Ware Island: A Report on the Ongoing Dispute over the Nabaina and Nagobi Islands and the Long/Kosmann Reefs; Milne Bay Province. A Report to the Administrator's Office, Milne Bay Provincial Government, Alotau, Milne Bay Province, Papua New Guinea. Pp: 25.

Kinch, J. 2000. Social Aspects of the Milne Bay Marine Integrated Conservation and Development Program. A Paper presented at the United Nation's Milne Bay Community-Based Coastal and Marine Conservation Program's Site Selection Workshop, Jul 17-22, Alotau, Milne Bay Province, Papua New Guinea. Pp: 7.

Mitchell, D. and Seta, B. 2000. *Site Selection Workshop Summary*. A Report prepared for Conservation International, Alotau, Milne Bay Province, Papua New Guinea. Pp: 7.

Kinch, J. 1999. Economics and Environment in Island Melanesia: A General Overview of Resource Use and Livelihoods on Brooker Island in the Calvados Chain of the Louisiade Archipelago, Milne Bay Province, Papua New Guinea. A Report prepared for Conservation International, Port Moresby, Papua New Guinea. Pp: 115.

Natural Resources Materials

Allen, G.; Kinch, J; McKenna, S. and Seeto, P. (eds.). in press. *A Rapid Biodiversity Assessment of the Coral Reefs of Milne Bay Province, Papua New Guinea - Survey II (2000)*. RAP Bulletin of Biological Assessment No.: 29. Washington, D.C.: Conservation International. Pp: 172.

Kinch, J. in prep. *Mollusc Use Amongst the Women of Brooker Island, Milne Bay Province, Papua New Guinea.* Unpublished Manuscript.

Kinch, J. in prep. Sea Turtle Resources in the Milne Bay Province, Papua New Guinea: Results of a Nesting Survey (21-27/01/03) at Panayayapona and Panadaludalu Islands (Jomard Islands), with Additional Notes. A report prepared for the South Pacific Regional Environment Program, Apia, Samoa; the Department of Environment and Conservation, Port Moresby, Papua New Guinea; and Environment Australia, Brisbane, Queensland, Australia.

Kinch, J. 2002. Giant Clams: Their Status and Trade in the Milne Bay Province, Papua New Guinea. *Traffic Bulletin.* 19 (2): 67-75.

Kinch, J. 2002. An Overview of the Beche-de-mer Fishery in the Milne Bay Province, Papua New Guinea. *SPC Beche-de-mer Bulletin.* 17: 2-16.

Skewes, T., Kinch, J., Polon, P., Dennis, D., Seeto, P., Taranto, T., Lokani, P., Wassenberg, T., Koutsoukos, A, Sarke, J. 2002. *Research for the Sustainable Use of Beche-de-mer Resources in Milne Bay Province, Papua New Guinea*. CSIRO Division of Marine Research Final Report, Cleveland Australia. Pp: 40.

Kinch, J. 2002. *The Development of a Monitoring Program for the Management and Sustainable Use of Sea Turtle Resources in the Milne Bay Province, Papua New Guinea*. A Proposal prepared for the South Pacific Regional Environment Program, Apia, Western Samoa. Pp: 39.

Kinch, J. 2002. *The Role of Traditional Reef Closure for Conservation in the Milne Bay Community-based Coastal and Marine Conservation Program, Papua New Guinea*. Paper presented at the Global Forces and their Impacts on the Pacific's Biodiversity: Towards Local and Regional Response Strategies. 1st Regional Session of the Global Biodiversity Forum for the Pacific, Jul 4-5, Rarotonga, Cook Islands. Pp: 12.

Kinch, J. 2002. Protecting Coral Reefs from Destructive Fishing Practices and Managing Reef Fish Spawning Aggregations in the Pacific: A Review of the Issues for the Milne Bay Communitybased Coastal and Marine Conservation Program. A Report prepared for The Nature Conservancy and Conservation International, Washington D.C., United States of America. Pp: 13.

Kinch, J. 2001. Clam Harvesting, the Convention on the International Trade in Endangered Species (CITES) and Conservation in the Milne Bay Province. *SPC Fisheries Newsletter*. 99: 24-36.

MRAG Americas, Inc. 2001. *Alternative Management Options for Target Sedentary Species in the South Western Pacific*. A Technical Report prepared for Conservation International, Washington, D.C., United States of America. Pp: 71.

Wilson, M. 2001. *A Monitoring and Evaluation Plan for the Sedentary Commercial Living Marine Resources of the Milne Bay Area, Papua New Guinea*. A Report prepared for Conservation International, Port Moresby, Papua New Guinea. Pp: 32.

Seeto, P. 2000. *Conservation Needs Assessment for the Milne Bay Community-Based Coastal and Marine Conservation Program.* A report to the United Nations Milne Bay Community-Based Coastal and Marine Conservation Program, PNG/99/G41, Port Moresby, Papua New Guinea.

Kelokelo, O. and Kinch, J. 2000. *Nuakata Island Fisheries and Resource Status: Tables Only*. A Report prepared for the Milne Bay Provincial Fisheries Authority and Conservation International, Alotau, Milne Bay Province, Papua New Guinea. Pp: 12.

Kinch, J. 1999. A Preliminary Taxonomy of some of the Fish Fauna found in the Waters Surrounding Brooker Island in the West Calvados Chain of the Louisiade Archipelago, Milne Bay Province, Papua New Guinea. A Report to the Environment Departments, Louisiade Rural Local Level Government and the Milne Bay Provincial Government, Milne Bay Province, Papua New Guinea. Pp: 13.

Kinch, J. 1999. *A Preliminary Taxonomy of some of the Shellfish Fauna found in the Waters Surrounding Brooker Island in the West Calvados Chain of the Louisiade Archipelago, Milne Bay Province, Papua New Guinea*. A Report to the Environment Departments, Louisiade Rural Local Level Government and the Milne Bay Provincial Government, Milne Bay Province, Papua New Guinea. Pp: 5.



Kinch, J. 1999. *Results of Brooker Island Turtle Harvest Survey: 1998-1999 Season*. A Report to the Environment Departments, Louisiade Rural Local Level Government and the Milne Bay Provincial Government, Milne Bay Province, Papua New Guinea. Pp: 20.

Werner, T. and Allen, G. (eds.). 1998. *A Rapid Biodiversity Assessment of the Coral Reefs of Milne Bay Province, Papua New Guinea*. RAP Working Papers 11, Washington, DC: Conservation International. Pp: 109.



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