

VATU-I-RA COMMUNITY BULLETIN



Vol. 18. June 2011

Ni sa bula vinaka! Welcome to the eighteenth edition of the VATU-I-RA COMMUNITY BULLETIN. The bulletin brings together news and results from ongoing activities by the Wildlife Conservation Society within the Vatu-i-Ra Seascape.

KEY EBM MESSAGES:

Preservation of functional integrity of Fiji's ecoscapes through community based management.

- Successful 'ridge-to-reef' management depends on broad stakeholder input
- Inland and coastal communities need to manage their actions and resources together
- 'Ridge-to-reef' management protects habitat for all stages of
- The success of protected areas for conservation and livelihoods relies on combining bottom-up community engagement with top-down planning
- Public health and livelihoods depend on environmental health
- Healthy ecosystems are the best defense against climate change impacts to livelihoods

TRIP REPORT FROM THE MARINE SURVEYS IN BUA AND CAKAUDROVE

out on the boats with us each day.

weeks. Everyone in the team had a different dolphins accompanying our boat on a couple

In April and May the WCS field team were in role to play, recording the numbers and Bua and Cakaudrove Provinces conducting different species of fish and corals, or marine biodiversity surveys on the coral assessing other signs of reef "health" which reefs. The team surveyed 143 sites across indicate how well a reef might survive or Solevu, Nadi, Wainunu, Kubulau and Wailevu recover from large storms or increasing Districts, altogether spending a total of 572 temperatures associated with climate change, hours, or almost 24 days in the water! which can cause corals to die. Apart from Despite the hard work, everyone agreed that revisiting a few long-term monitoring sites in it was a fantastic trip and would like to say the Namena reserve, all of the survey sites vinaka vakalevu to our hosts in Nasavu, Daria were new for the WCS team. We were and Natuvu villages, especially to the excited to be the first people to dive on these wonderful cooks and volunteers who came reefs, and had no idea what to expect when we got underwater.

We were fortunate to be blessed with On the reefs offshore from Nadi and Solevu perfect weather for the trip, with bright we were delighted to see sharks, manta rays sunny skies and calm seas every day for five and turtles every day, and even had a pod of

> occasions. The reefs colourful and full of life, and could attract dive tourists to the area. However, it is clear that they are also attracting a lot of fishermen, so communities will need to consider how to manage these reefs to ensure that the fish stocks remain for future generations.

> We expected the reefs inshore to be less spectacular, as run-off from the land usually means that the visibility underwater is poorer, and you are less likely to encounter the charismatic species which are attracted to the high current sites offshore. However pleasantly surprised on some of our survey sites where we encountered large schools of snapper. This shows that even inshore areas can support large fish populations if they are managed well.

Continued page 2...



Above: Reef scape from Nadi district

INSIDE THIS ISSUE: TRIP REPORT CONTINUED 2 CETACEAN SURVEYS CPUE TRAINING 3 IN THE NEWS... 4

TRIP REPORT CONTINUED....

We expected the reefs inshore to be less spectacular, as run-off from the land usually means that the visibility underwater is poorer, and you are less likely to encounter the charismatic species which are attracted to the high current sites offshore. However we were pleasantly surprised on some of our survey sites where we encountered large schools of snapper. This shows that even inshore areas can support large fish populations if they are managed well.

The reefs offshore from Wailevu District were full of surprises. We saw some large fish, including sharks and Giant Trevally, but the coral reefs themselves are less healthy. The reefs were likely damaged by cyclones last year, and further damage has been caused by the "crown of thorns" (Fijian = bula?) starfish. These starfish feed on corals, and when they occur in large numbers, they can destroy large areas of the reef. Unfortunately they have few natural predators, only the *davui* (triton shell) and (humphead wrasse) can cope with their poisonous, sharp spines.

The WCS staff are now busy back at our office in Suva entering and analysing all the data that we collected in the field. Later this year we will be back in Bua and Cakaudrove to present our results. We hope that our recommendations about which areas of the reef

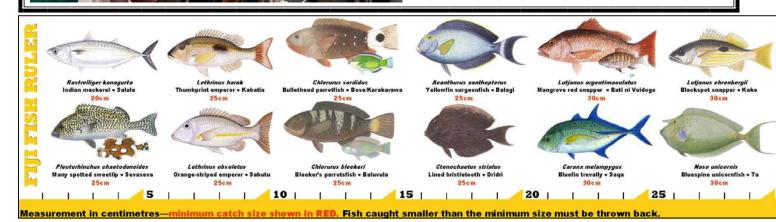
will benefit most from protection in marine protected areas or tabu areas will help communities to make decisions about how to manage their resources effectively.



Left: WCS team heading to a survey site in Solevu Middle left: Mushroom coral Top: Longnose filefish

Middle: WCS staff member Waisea Naisilisili getting his equipment ready before a survey.

Bottom: Pink Anemonefish



Vol. 18. June 2011 PAGE 3

CETACEAN SURVEYS

by the WCS team under the direction of WCS Marine Program whales and if they do, can they identify species by the pictures

A Cetacean survey will be conducted in the Vatu-i-Ra Seascape The surveys will ask villagers if they encounter dolphins or Cetacean expert Brian Smith. The WCS team with the they will be shown. Questions about what time of the year that assistance of Department of Fisheries will be interviewing local the cetaceans are sighted and how often they are seen will also villagers in the districts of Bua, Cakaudrove on Vanua Levu and be asked. How people feel about dolphins and whales and Rakiraki, Saivou, Nakorotubu, Sawakasa and Verata on Viti cultural significancies will also be determined. The information Levu. These surveys will be happening between July 4th- 25th. collected will then be used for some targeted sea-based



CPUE TRAINING

method. From this data collected the Catch Per Unit Effort them record data and identify fishing spots. (CPUE) can be calculated. CPUE is the weight (biomass) of fish and invertebrates caught in a given area during a fishing period using a certain fishing technique. CPUE generally gives the fish/ invertebrates caught per fishermen per time period.

CPUE training for the villages of Natuvu and Naiqai in the endangered fish species.

Marine managers around the world are using various methods district of Wailevu, Kiobo and Natokalau in the district of of protection including monitoring and surveying details, such Kubulau, Saolo and Nakawakawa in the district of Wainunu as the size and numbers of fish caught to increase fish stock. from the 28-30th June. These villages have been chosen These monitoring and survey methods help us understand the because they have been observed to be utilizing marine life cycles of protected fish species and their various growth resources more frequently. 20 households from each of these phases from larvae to adulthood. A monitoring method that villages will be chosen to conduct this CPUE and will be trained can provide information on the size distribution of fish species on how they will be required to collect this data. Each along with effort and size information is the Catch Survey household will be provided with data sheets and maps to help

> WCS has produced a ruler which is shown below to assist in the measurement of all fish and invertebrates caught. Most of the food fish are on the fish ruler with their respective maturity size and also included are the threatened and



FIJI ECOSYSTEM BASED MANAGEMENT (EBM) = HEALTHY PEOPLE, PROCESSES AND SYSTEMS

Contact:

Vatu-i-Ra Community Bulletin Editor Wildlife Conservation Society 11 Ma'afu Street Suva Fiji Islands

> Phone: + 679 331 5174 Fax: + 679 331 0178 E-mail: infofiji@wcs.org

> > CHECK US

WWW.WCSFIJI.ORG

on FACEBOOK @ WCS-FIJI

ONGOING AND UPCOMING EVENTS

- June 27-30, 2011 CPUE training (selected villages)
- July 2011—Cetacean surveying
- 25 July 2011—CENT workshop with CORAL.
- 26/27 July 2011—Workshop with KRMC and chiefs to discuss options for adapting MPA network and EBM plan.
- July—November 2011— Construction of options for Solevu-Nadi-Wainunu and Wailevu MPA network designs, consultation workshops with communities leading to MPA design and management plan recommendations.

MAKING THE NEWS...

Internationally...

undertaken by WCS and our colleagues received an International audience at the 2nd International Marine Conservation Congress, held in Victoria, Canada from 14th-18th May. The conference was attended by more than 1,200 people from around the world, and by the end of the week many of them had heard about Kubulau District. In total there were 16 presentations on Fiji, and 5 featuring Kubulau.

- Dr Rebecca Weeks presented the research that WCS is currently undertaking to improve the resilience of the Kubulau MPA network to potential future impacts of climate change.
- Naushad Yakub, also from WCS, talked about the development of the Kubulau District EBM Plan, and how this is now being used as a template for ecosystem based management projects in other parts of Fiji and across the Pacific.
- Thomas Tui from SeaWeb gave a presentation on the Community Educators Network Training undertaken in Kubulau.
- Rick MacPherson, CORAL's Director of Conservation Programs, participated in a panel discussion on conservation successes, and chose to highlight the Kubulau site from all of CORAL's projects world wide.
- Dr Stacy Jupiter, WCS-Fiji Director, talked about the efforts of the national Protected Area Committee and FLMMA to increase the number of marine managed areas across Fiji.

AND LOCALLY... The management efforts of the KRMC and research FIJI TIMES ARTICLE MAY 21



Please send your questions and letters to the Vatu-i-Ra Community Bulletin Editorial Team, using the contact details above.

TAQOMAKI NI NODA VEIKABULA



The Wildlife Conservation Society (WCS) is a U.S. based international NGO, with conservation programs all around the world, including Fiji. Over the past century, the WCS has worked to establish more than 130 parks and protected areas on land and at sea as well as working on threatened species. WCS works to save wildlife and wild places by understanding and resolving the critical problems that threaten key species and large, wild ecosystems around the world.