



TAMAN MARIN TUN SAKARAN
DARWIN INITIATIVE

Report of the Semporna Coral Seas Roadshow 2011



Semporna Islands Darwin Project

Capacity building to enhance Marine Protected Area effectiveness

Report of the

Semporna Coral Seas Roadshow

January 10th to 31st 2011

By

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2011

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SUMMARY

Environmental education and awareness play a vital role in supporting conservation initiatives both inside and outside Protected Areas. One of the components of the Semporna Islands Darwin project (SIDP) outreach programme has been the '*Semporna Coral Seas Roadshow*', which had its first run in 2010. The second run took place over a 3-week period from January 10th – 31st 2011.

An average of 10-12 people helped to carry out the 2011 Roadshow each day from a pool of 20 people from various organisations. The organisations represented were Marine Conservation Society, Semporna Islands Darwin Project (SIDP), Sabah Parks staff from several stations throughout Sabah, Reef Check Malaysia, WWF-Malaysia and KK Reef Watch, all of whom were experienced in conducting education and awareness activities.

The 2011 Roadshow was targeted towards primary schools and local communities in and around the Tun Sakaran Marine Park. The main aim was to raise awareness about the value of coral reefs and their resources, and the steps that can be taken to promote conservation and minimise impacts to marine ecosystems and wildlife.

Over a period of three weeks, the Roadshow reached about 3820 school children and 600 members of the public from the mainland and from islands inside and outside the Park.

The main presentation was set around a number of life-size models of charismatic marine animals (turtles, sharks, dolphin and humphead wrasse). Other props were also used, including a model stingray, 'turtle eggs' (ping-pong balls) on a beach (bucket of sand) and 'real' rubbish. The audience also participated in various activities that helped to engage and entertain them whilst teaching them about marine life and the environment.

A key hands-on activity was *Build Your Own Reef*, in which participants stuck cut-out fish and marine life to panels showing different reef scenes which told a story about healthy v unhealthy reefs. Reef Check Malaysia have borrowed the concept and photographs to make their own BYOR for use in their outreach programmes in West Malaysia.

As with the first Coral Seas Roadshow in 2010, the 2011 event was very well received and its interactive and lively format proved to be an excellent way of involving and informing audiences. The CSR was also a good way of building closer relationships between Sabah Parks and the local community and of involving other NGOs.

The Coral Seas Roadshow helps to fill a niche – responses from the teachers revealed that that 81% of the teachers replied that they 'hardly ever' teach their students about marine life and the coral reef environment.

95% of the teachers felt that the Roadshow had helped the students to understand more about marine life and the environment and 97% felt it is very important that the students learn more about the marine environment especially in their local area.



Scenes from the Semporna Coral Reef Roadshow 2011 showing the presentations and audiences in various locations around Semporna.



Roadshow activity: *Build Your Own Reef* showing the participants producing the final message 'We want beautiful healthy reefs full of fish, not over-fished, dead and worthless'.



Children with their take-home gifts – a notebook, pencil and community-produced postcard featuring marine life.

One of the personalised certificates 'Kg Boheybual: Participant in the Coral Reefs Roadshow 2011 and friend of Tun Sakaran Marine Park.'



1. INTRODUCTION

The Tun Sakaran Marine Park (TSMP) was gazetted in 2004 and is not only the largest MPA in Sabah but also the only one in which local communities live, work and own land within its boundaries. Overfishing and destructive fishing have a long history in the Semporna area, including in the Park area, and concerted efforts are being made to solve these problems.

Resource use and conservation strategies are gradually being implemented in TSMP, but this is a challenging task due to the large size of the Park (350 km²) and constraints related to the availability of boats, fuel and manpower.

Support for conservation is more likely to be forthcoming if people understand its importance and benefits and, for this reason, awareness and outreach has been a key component of the current (2009 – 2011) phase of the Semporna Islands Darwin Project.

A component of the outreach programme has been the '*Semporna Coral Seas Roadshow*', which had its first run in 2010. One of the lessons learnt from staging the Semporna Coral Seas Roadshow was that its interactive and lively format proved to be an excellent way of involving and informing audiences.

A second run was therefore organised for 2011, targeting schools and communities in and around Semporna and Kota Kinabalu.

2. AIMS AND OBJECTIVES OF THE SEMPORNA CORAL SEAS ROADSHOW

2.1. Main aim

- To raise awareness about the value of coral reefs and their resources, and the steps that can be taken to promote conservation and minimise impacts to marine ecosystems and wildlife.

2.2. Specific objectives

- To ensure that people know about the Tun Sakaran Marine Park 'on their doorstep' and understand its importance and the efforts being made to protect it for future generations.
- To introduce a selection of life-size models of charismatic marine species and explain how they are threatened and what people can do to look after them.
- To illustrate the diversity of life found on coral reefs and explain how coral reefs in the Semporna area are being damaged by fish bombing and overfishing.
- To encourage children to think about the issue of litter and what effect plastic and other waste may have on the marine environment and its wildlife.
- To reach out to teachers and inspire them to take an active interest in marine wildlife and to encourage continuing links between schools and SIDP/Sabah Parks.
- To gather feedback and suggestions from audiences about the Semporna Coral Seas Roadshow and how it could be improved.
- To find out from schools what type of follow-up would be useful, in order to maintain the interest of students in marine wildlife and conservation.
- To continue to build capacity and confidence within Sabah Parks to develop and run more 'Coral Seas Roadshows', not only in the Semporna area but elsewhere in Sabah where there are existing or proposed Marine Protected Areas (e.g. Kota Kinabalu, Sandakan, Kudat).
- To leave a legacy in the form of resources, wildlife models and activities that can be used in Roadshows in Semporna and more widely in Sabah.

3. ROADSHOW ORGANISING COMMITTEE AND INITIAL PLANNING

Planning for the second Semporna Coral Seas Roadshow began in November 2010. This included updating our existing list of schools in the area and developing ideas for props and activities.

In December 2010, Jamie Valiant Ng and Sabah Parks support staff began visiting schools and other possible locations for the Roadshow. They held discussions with teachers and head teachers and then put together an itinerary.

Props and materials were designed, printed, painted and made during December and early January, ready for the start of the Roadshow on January 10th.

The organising committee comprised the following people:

Name	Organisation	Role
Andy Starbuck	MCS	Programme planning & making of models
Elizabeth Wood	MCS/SIDP	Programme planning & design of materials including poster and ' <i>Build Your Own Reef</i> '
Sue Ranger	MCS	Production of short DVD
Jamie Valiant Ng	SIDP/SP	Organisation of itinerary & logistics
Helen Brunt	SIDP	Logistics & preparation/printing of materials
Yusri @ Ghani Pahapat	SP	Assistant: school liaison & itinerary
Raziah Binti Amir Salleh	SP	Assistant: school liaison & itinerary
Hatta Bin Makling	SIDP Part-time worker	Van Driver & delivery of invitations to schools

4. ROADSHOW FIELD TEAM AND TASKS

The team comprised an average of 10-12 people who helped to carry out the Roadshow each day from a pool of 20 people who came from various organisations. The organisations represented were Marine Conservation Society, Semporna Islands Darwin Project (SIDP), Sabah Parks staff from various stations, Reef Check Malaysia, WWF-Malaysia and KK Reef Watch, all of whom were experienced in conducting education and awareness activities.

Name	Organisation	Role
Andy Starbuck	Marine Conservation Society	Presenter & trainer
Helen Brunt	SIDP Project Coordinator	Activities assistant & organiser
Jamie Valiant Ng	SIDP- Sabah Parks (Tun Sakaran Marine Park)	Co-presenter & organiser
Ruth Yap	Reef Check Malaysia	Co-presenter & assistant
Yusri @ Ghani Pahapat	Sabah Parks (Tun Sakaran Marine Park)	Co-presenter & assistant
Azahar Hj. Amat	Sabah Parks (Turtle Islands Park)	Co-presenter & assistant
Md. Abdul Razak Bin Salleh	Sabah Parks (Kinabalu Park)	Co-presenter & assistant
Lelian Edang	Sabah Parks (Tunku Abdul Rahman Park)	Activities assistant
Wesley Yongi	Sabah Parks (Turtle Islands Park)	Activities assistant
Khairulnizam Sallin	Sabah Parks (Crocker Range Park)	Activities assistant
Maznah Binti Laggu	Sabah Parks (Tun Sakaran Marine Park)	Activities assistant
Ali Mara Bin Abdul Paka	Sabah Parks (Tun Sakaran Marine Park)	Activities assistant
Abd. Nasip Bin Patal	Sabah Parks (Tun Sakaran Marine Park)	Activities assistant
Nasir Malail	Sabah Parks (Tun Sakaran Marine Park)	Boatman
Salih Beluat	Sabah Parks (Tunku Abdul Rahman Park)	Boatman
Azme Korom	Sabah Parks (KK HQ)	Van Driver & Activities assistant
Darnawati Binti Abdul Latif	SIDP Part-time worker	Activities assistant
Salmiah Binti Amir Salleh	SIDP Part-time worker	Activities assistant
Hatta Bin Makling	SIDP Part-time worker	Van Driver & Activities assistant
Alimin Bin Amsihih	SIDP Part-time worker	Van Driver

An initial briefing was held when Andy Starbuck arrived in Semporna on Sunday 9th January 2011. At this meeting the team ran through the programme and discussed the presentations and activities in readiness for the start the following day.

There were also several visitors from WWF-Malaysia and KK Reef Watch who joined the Roadshow to help and observe.

Name	Organisation
Gavin Jolis	WWF-Malaysia (Semporna)
Zainab Karim	WWF-Malaysia (Semporna)
Irwanshah Bin Mustapa	KK Reef Watch
Sofia Johari	KK Reef Watch
Arleeneanjaan Lee Geok Lan	KK Reef Watch
El-Said Abdel Aziz	KK Reef Watch
Asri Bin Barail	KK Reef Watch
Hermond Magupin	KK Reef Watch

Tasks and responsibilities were allocated to the team prior to each event in order to ensure that everything ran smoothly.

The roles of the Roadshow team were to:

- Provide transport to the venue by van and/or boat.
- Unload/load and set up the display material at each school/location.
- Set up and run the SIDP DVD.
- Make the presentations using the inflatable models and other props.
- Organise the follow-on, ancillary activities.
- Encourage participation.
- Answer questions.
- Take photographs/video.
- Distribute Coral Seas Roadshow notebooks, '*I Love Coral Reefs*' pencils and Sibuan art postcards to all those attending the Roadshow.
- Thank the Headteacher and School Staff.
- Present a Coral Seas Roadshow and *Friends of the Marine Park* framed Certificate and Coral Seas Roadshow Poster to each participating class in Semporna.
- Donate a Coral Seas Roadshow poster to each participating class in Kota Kinabalu.

ITINERARY

The Roadshow visited 18 schools, 3 island communities and the District Library in Semporna and 7 schools and 2 island villages in Kota Kinabalu.

The main criteria for the selection of these schools and locations were :

- i. Proximity to Sabah Parks Marine Parks
- ii. Island Communities living in the Sabah Parks Marine Parks
- iii. Logistics of combining two schools on one day

Over a period of three weeks, the Roadshow reached about 3820 school children and 600 members of the public from the mainland and from islands inside and outside the Park.

SEMPORNA

No.	Date 2011	Time	Venue	Location	No. Participants
1	10/01	09:00am	Sek.Keb. Sulabayan	Bum Bum Island	130
2	10/01	02:00pm	Sek.Keb. Terusan Tengah	Bum Bum Island	170
3	11/01	09:00am	Sek.Keb. Gelam Gelam	Bum Bum Island	267
4	11/01	02:00pm	Sek.Keb. Balimbang	Bum Bum Island	200
5	12/01	09:00am	Sek.Keb. Bubul II	Semporna	200
6	12/01	02:00pm	Sek.Keb. Kg. Simunul	Semporna	120
7	13/01	09:00am	Sek.Keb. Tong Kalloh	Bum Bum Island	200
8	13/01	02:00pm	Sek.Keb. Tampi Tampi	Semporna	100
9	14/01	09:00am	Sek.Keb. Pekan Semporna II	Semporna	150
10	14/01	02:00pm	Pulau Kulapuan	Kulapuan Island	80
11	15/01	08:30am	Pulau Maiga	Maiga Island	80
12	17/01	09:00am	Sek.Keb. Hampalan	Bum Bum Island	80
13	17/01	02:00pm	Humana, Semporna	Semporna	90
14	18/01	09:00am	Sek.Keb. Labuan Haji	Bum Bum Island	85
15	18/01	11.30am	Lilbabs Humana School	Bum Bum Island	90
16	19/01	09:00am	Sek.Keb. Kabogan	Semporna	270
17	19/01	02:00pm	Sek.Keb. Bangau Bangau	Semporna	170
18	20/01	09:00am	Sek.Keb. Pulau Larapan	Larapan Island	59
19	20/01	11:30am	Sek.Keb. Pulau Sumandi	Sumandi Island	90
20	21/01	09:00am	Sek.Keb. Selakan	Selakan Island	37
21	21/01	02:00pm	Pulau Sibuan	Sibuan Island	80
22	22/01	08:30am	Semporna Library	Semporna	150

KOTA KINABALU

23	24/01	09:00am	Kg. Gaya	Gaya Island	60
24	24/01	02:00pm	Kg. Lokurai	Gaya Island	150
25	25/01	08:30am	SK. Inanam Laut	Kota Kinabalu	270
26	26/01	08:30am	SK. Tg. Aru 1	Kota Kinabalu	165
27	26/01	01:30pm	SK. Stella Maris	Kota Kinabalu	170
28	27/01	08:30am	SK. Contoh Petagas	Kota Kinabalu	120
29	27/01	11:00am	SK. Petagas	Kota Kinabalu	140
30	27/01	02:00pm	SK. Sembulan	Kota Kinabalu	200
31	28/01	08:30am	SRK. Sacred Heart	Kota Kinabalu	250

5. ROADSHOW FORMAT

Most of the Roadshows were carried out in a school hall or large classroom, but a few were held outside. Materials were transported to the site by van and/or boat and set up and dismantled for each show.

The Roadshow itself ran for about 2 hours and incorporated the following elements:

- a) Brief introduction by a member of the Roadshow Team
- b) Screening of the Coral Seas Roadshow 2011 DVD (7 minutes)
- c) Interactive Coral Seas Roadshow presentation (approx 25 -30 minutes)

The presentation was set around a number of life-size models of charismatic marine animals (turtles, sharks, dolphin and humphead wrasse). Other props were also used, including a model stingray, 'turtle eggs' (ping-pong balls) on a beach (bucket of sand) and 'real' rubbish.

During the first couple of days, the presentation was given by Andy Starbuck in English with simultaneous translation into Bahasa Malaysia by members of the Roadshow team (comprising staff from Sabah Parks (SP), Semporna Islands Darwin Project (SIDP), Reef Check Malaysia (RCM) and other volunteers). The Roadshow team members also helped with the props and demonstrations.

As the Roadshow progressed, each member of the Roadshow team played an increasingly active role and by the final week were able to run the event with little input from Andy Starbuck and entirely in Bahasa Malaysia. Jamie Valiant Ng (SIDP), Yusri Ghani Pahapat (SP), Abdul Razak bin Salleh (SP) and Ruth Yap (RCM) played leading roles as the main presenters, with lively participation by other Roadshow staff.

- d) Group activities (30 mins)

The aim of this session was to give the audience the opportunity to participate in various activities and at the same time to learn something about marine life. Details of the activities are in the next section.

- e) Presentation of token of appreciation to the Head Teacher. This was a framed photograph of the Park and carried the words '*xx school/ community: Participant in the Coral Seas Roadshow 2011 and Friend of Tun Sakaran Marine Park*'.
- f) A set of posters was presented to each Class.
- g) Each participant was given a Coral Seas Roadshow notebook, an '*I Love Coral Reefs*' pencil and a postcard of marine life painted by the community of Pulau Sibuan in the Tun Sakaran Marine Park.

6. MATERIALS, PROPS AND MESSAGES

a) Roadshow poster

This was designed by Elizabeth Wood (MCS) and includes images of hard and soft corals, fish and other marine life commonly found in the Semporna area. The wording on the poster reads '*Become a friend of Tun Sakaran Marine Park – let us work together to safeguard and protect the islands and reefs!*'. 50 posters were printed for distribution to the schools and locally in Semporna.

Remaining posters from the Coral Seas Roadshow in 2010 were also distributed to schools in KK and public places in Semporna.

b) Roadshow banner

A 3m-long banner was produced with the Roadshow title, leaping dolphin and logos of the project partners. This was displayed prominently at each location.

c) Coral Seas Roadshow 2011 DVD

Each audience was shown a short montage of images and footage about marine conservation, set to music and with messages written in Bahasa Malaysia across the screen. This was produced by Sue Ranger and Elizabeth Wood (MCS).

d) Models, props and messages for the interactive Coral Seas Roadshow presentation

Andy Starbuck makes his own life-sized 'inflatable' animals for the Roadshows in the UK, and brought a spinner dolphin and hammerhead shark out to Sabah for the Semporna and Kota Kinabalu events. He also brought 3 inflatable juvenile sharks. These models were inflated and deflated using a small electrical pump. In addition, he brought 4 stuffed turtles, ranging in size from a life-sized adult to juveniles. A real (dead) hatchling was used as part of the section explaining the life-cycle of a turtle. A stuffed blue-spotted stingray was also used to explain that sharks eat other marine life, and not humans.

A life-size model of an adult humphead wrasse (*Chelinus undulatus*) was made by printing out a photograph (kindly donated by Scubazoo), which was then stuck to plywood and cut around with a jig-saw. This species is heavily targeted for the live fish trade and the children were told about how difficult it is to find individuals this size now because they have all been caught. They heard about how efforts are being made to protect this species by setting up no-fishing areas where these and other reef fish can grow into adults and produce young.

Other props included locally sourced rubbish (especially plastics), ping-pong balls (representing turtle eggs), a real coconut (used in the discussion about the number of people killed by falling coconuts rather than sharks) and a 'fish bomb' made from an empty beer bottle with a real fuse but 'fake' contents.

During the presentation, the audience were told natural history stories, 'fascinating facts' and the problems faced by the animals because of over-fishing, pollution and rubbish. The audience were invited to participate at several stages. For example, they found 'turtle eggs' in a bucket of sand as they learnt about how turtles breed

and helped to 'rescue' the dolphin during a demonstration of marine animals can become entangled in plastic bags and fishing gear.

e) Build a Coral Reef

This was designed and made especially for the Roadshow and consisted of nine reef scene photographs from the Tun Sakaran Marine Park which were printed onto polycarbonate plastic boards. Six scenes showed a healthy reef with divers in the background, while the remaining three scenes showed a reef in various stages of degradation. Along the top of panels ran a message in Bahasa Malaysia which read: *We want beautiful healthy reefs full of fish, not over-fished, dead and worthless*'. The aim was to introduce the audience to coral reef life and get them thinking about the impact that humans have on the marine ecosystem. The audience was divided into nine smaller groups, each taking one panel away to a quiet corner.

The marine life that the participants used to 'build the reef' consisted of a selection of life-size cut out fish and other marine creatures. These were made from pictures of species photographed in the Tun Sakaran Marine Park. The prints were glued onto styrofoam, trimmed and then had velcro tape stuck on the back. Each was numbered and named.

During the activity, the Roadshow team invited children to pick a fish and put their 'catch' in the right places, by number. The scenes gradually built up as more fish were added and once the panel was complete, the individual groups returned to the main hall/classroom to assemble the panels in the correct order. An explanation followed about fishing and why the last three panels have fewer fish and no brightly coloured corals. Points made included the following:

- Fish and fishing are vitally important for local people – people need to fish but equally we have to make sure not too many fish are taken or there will be none left to breed and stocks will keep on declining.
- Panels 1-4: Healthy reef with lots of fish and other marine life where people are not fishing at all or are fishing sensibly at a low level. This means there are plenty of fish, many of which are breeding adults and so keeping the population going. This is what we hope the coral reefs in the Park will look like in a few years time.
- Panels 5 & 6: Healthy reef but with very few fish. This is what happens when there is too much fishing. Small fish that no-one wants to eat are left but all the big fish disappear. If things carry on this way the fish will never come back, but if this reef is protected from fishing then the fish will start to come back and multiply. This is good for everyone. Some of the fish will spread out to other areas and this will benefit fishermen. The protected reef will be a great attraction to divers and that means more tourism and jobs for local people.
- Panels 7-9: The reef is more or less destroyed by fish bombing. The explosives have smashed the coral and left rubble. Fish have been killed and young ones don't move in because there is nowhere for them to live and no food. The reef is unlikely to recover.

The children were then shown the 'fish bomb' and the following points were made:

- Fish bombing has been going on around Semporna for more than 50 years. Thousands of bombs have been detonated and together they have caused huge damage. They smash the coral and kill indiscriminately.
- Only a few people do fish bombing and they spoil the reef for everyone else. Everyone (including the children!) can help stamp out fish bombing by contacting Sabah Parks or other authorities if they have any suspicions.
- The audience were also shown an A3 size poster explaining that fish bombing is illegal and those involved in this activity can be imprisoned for up to 5 years and fined up to RM 500,000.

f) Other group and individual activities

These organised activities were designed to be both entertaining and educational. The younger children either did colouring or jigsaws while the older pupils were given sticker books to complete. Each of the 10 pages had a series of clues (in Bahasa Malaysia) and the children had to find the right animal sticker and stick it on the relevant page.

Examples:

Clues

[Answer: Turtle]

- I breathe air
- I eat sea-grass and jellyfish (but sometime I eat plastic bags thinking they are jellyfish)
- I live on coral reefs and in sea-grass beds
- Humans kill us for our meat and shells and take our eggs away
- We are in danger of disappearing from the face of the earth.

Clues

[Answer: Grouper]

- I am marked with spots and stripes
- I am eaten by sharks, and caught by fishermen
- I can swim, but usually I keep still and try not to be seen
- Humans catch me to put in aquariums or to eat me
- I eat other smaller fish

Clues

[Answer: Human]

- I have a backbone, breathe air and live on land
- I eat groupers, turtles, squid, parrotfish, shellfish and many other animals
- I often catch so many animals on the reef that they have a hard time surviving
- Sometimes, things that I do on land hurt animals and plants of the reef
- If I think and act responsibly I can help to make our environment a better place

7. LESSONS LEARNT AND FUTURE PLANS

As with the first Coral Seas Roadshow in 2010, the 2011 event was very well received (see section 8) and its interactive and lively format proved to be an excellent way of involving and informing audiences. The CSR was also a good way of building closer relationships between Sabah Parks and the local community and of involving other NGOs.

Ten Sabah Parks staff from Semporna and Kota Kinabalu were involved as presenters or activity co-ordinators, thus helping to build capacity within Sabah Parks and carry this type of initiative forward.

We have reviewed the format and content of the Semporna Coral Seas Roadshow again in the light of the current run, and make the following suggestions about the best way forward. Some of the conclusions are little changed from 2010.

a) Duration and timing of the Roadshow programme

The 2011 Roadshows were carried out in a solid block, with the team running two sessions most days over a period of 3 weeks. One of the reasons for this busy programme was that the lead presenter and trainer (Andy Starbuck) had come to Sabah specifically to run the Roadshow and it was important to make best use of his available time. In addition, since skills were being transferred through 'on-the-ground' training, an extended programme with 'repeat performances', made it easier for project and Sabah Parks staff to pick up the skills little-by-little each day.

This type of approach could be repeated in the future, with a series of 2-3 week-long Roadshow events taking place a few times each year. However, the alternative is to spread the Roadshows out – for example to run them for 2 or 3 days a month, visiting two locations each day. The advantage of this arrangement is that the logistics of freeing-up staff for a shorter period would be easier, and staff would remain fresher if they alternated the Roadshows with other work.

b) Planning and logistics

Lessons learnt from organising and running the 2010 Roadshow meant that there were fewer logistical problems because we were aware of possible problems and issues that needed resolving well in advance. Our advice from both the 2010 and 2011 Roadshows is summarised here:

- Permission to run activities in schools needs to be obtained from the educational authorities. This takes time and needs to be planned well in advance.
- It can be difficult to find a 'key contact' or reach the Head Teacher by phone. We found that the most productive way forward was to set aside time to travel to the school and make personal contact.
- It is important to inform the school that the school hall or a large shaded area will be needed for the Roadshow and to check with the school a few days beforehand to make sure the space is cleared and ready to use.

- We hired a van and independent driver to transport people and props because the Roadshow was running for a long block of time and the Sabah Parks mini-bus had many other demands on its time. However, if the Roadshow was of shorter duration then with pre-planning it might be possible to use Sabah Parks transport.
- A reliable electrical supply is needed but was not always available so it is essential to have a generator or a car battery and a stabilizer for back-up. However, whilst this is fine for blowing up the inflatables, the electrical supply from the generator / car battery will not be stable enough to run the computer and projector.
- It is important to have the complete equipment for the show (e.g. extension leads, microphone and speakers etc) and not to rely too much on the school's equipment as they may not have it or it may be broken.
- Teachers need to be told in advance that the team must have 10 minutes time to get the equipment ready before the children are let into the classroom. A waiting audience will soon become bored and noisy.

c) Roadshow team and training

- Outgoing personalities who can engage an audience are an essential ingredient of a successful Roadshow. It was advantageous that several of the Sabah Parks staff were experienced because they had previously been involved with SIDP outreach programmes. We also found that it was very useful to involve people from other organisations, such as WWF Malaysia and Reef Check Malaysia.
- It is important to brief all of the presenters and activity-coordinators before the event, so that they understand the environmental issues and can bring up relevant points and /or answer questions.

d) Props, materials and activities

The props and materials were relevant and useful. Our conclusions about future use or changes are as follows:

- A new short DVD made for the Roadshow provided an informative and useful introduction. Use of a film at the beginning of each event is a good way of getting everyone's attention.
- A 'warm-up' with some questions and answers at the beginning of the Roadshow was also very useful in engaging the audience.
- The props used during the main presentation were very popular and all worked well. The large inflatable shark and dolphins and stitched turtle were made by Andy Starbuck and so had to return with him to the UK. The plywood, life-size humphead wrasse made by the project worked well and other animals could quite easily be made in the same way.

- The dialogue and story-lines presented during the main session were well received and easy to understand and the audience enjoyed getting involved in the interactive sessions. However, this should not prevent the presenters from making adaptations or inserting new material as appropriate, in order to keep the show topical and informative.
- Build-your-own-reef (BYOR) was very effective. It provided a way for the whole audience to be involved in the making of a large 'banner' comprising a series of reef scenes joined together to reveal the storyline. Once this illustrated storyline had been 'constructed', the Roadshow presenters could then use it to easily explain a number of important issues. Reef Check Malaysia have borrowed the concept and photographs to make their own BYOR for use in their outreach programmes in West Malaysia.
- The sticker book was very suitable for the older children (age 8-9 years) and a simpler version could easily be developed for younger children.
- The colouring activities and in particular the jigsaws were popular and enjoyed by the younger children.

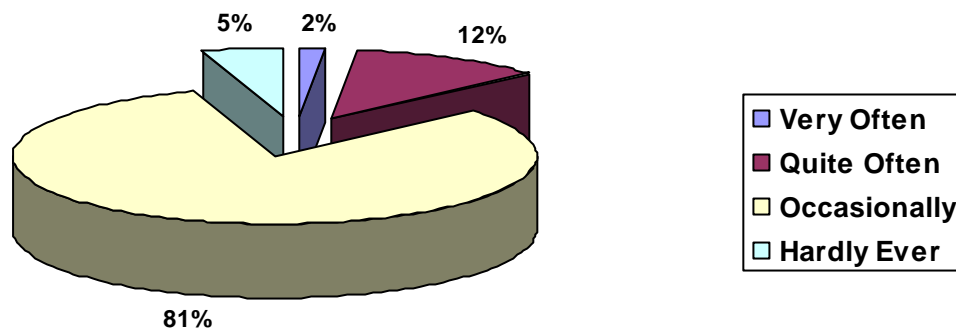
8. FEEDBACK

After the Roadshow's main presentation, the teachers were asked to complete a feedback questionnaire form. The questions were written in Bahasa Malaysia and the answers have been translated for this report by Jamie Valiant Ng.

The answers help to show us the suitability of the Roadshow for the schools and how easily the message was understood by the students.

The questions and answers are as follows:

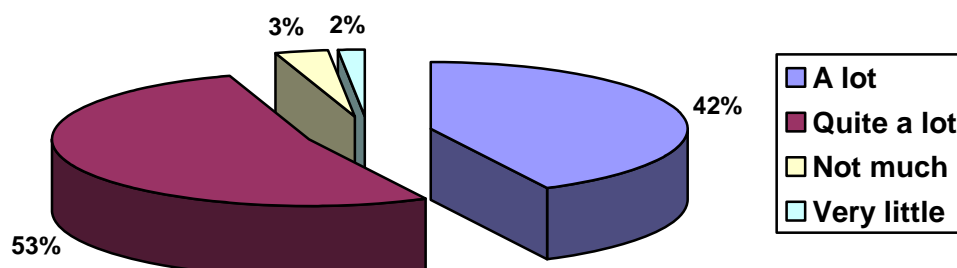
1. In your class, how often do you have the opportunity to teach the students about marine life and the coral reef environment?



The Pie Chart above indicates that 81% of the teachers replied that they 'hardly ever' teach their students about marine life and the coral reef environment. Only 2% replied 'very often', 12% 'quite often' and 5% 'occasionally'.

It is clear that at present there is no specific time set aside at school to teach about marine life and coral reefs. Science is the only subject taught at schools that may include basic education about marine life and coral reefs.

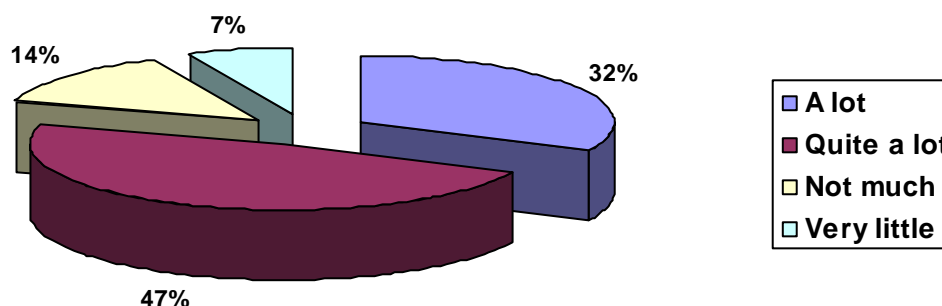
2. How much do you think the Roadshow will have helped the students in your class to understand more about marine life and the coral reef environment?



The Pie Chart shows that 53% replied that the Roadshow had help the students 'quite a lot' to understand more about marine life and coral reef environment and 42% replied 'a lot'. Only 3% of the teachers said 'not much' and 2% 'very little'.

The Roadshow used life-sized marine models to highlight issues regarding plastic, fish-bombing, and over-fishing. The presentations and activities clearly helped the children to understand about conservation especially about marine life and coral reefs.

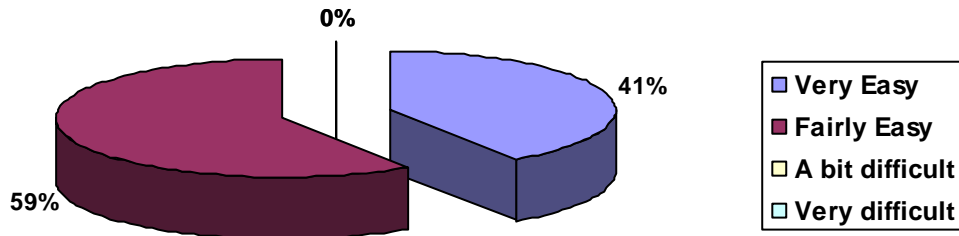
3. How much did the Roadshow meet the requirements of the co-curriculum at your school?



According to most of the teachers (79%) the Roadshow also met the requirements of co-curriculum at the school. Hopefully this will encourage the teachers to incorporate the type of information they were exposed to in the Roadshow into their lessons in the future.

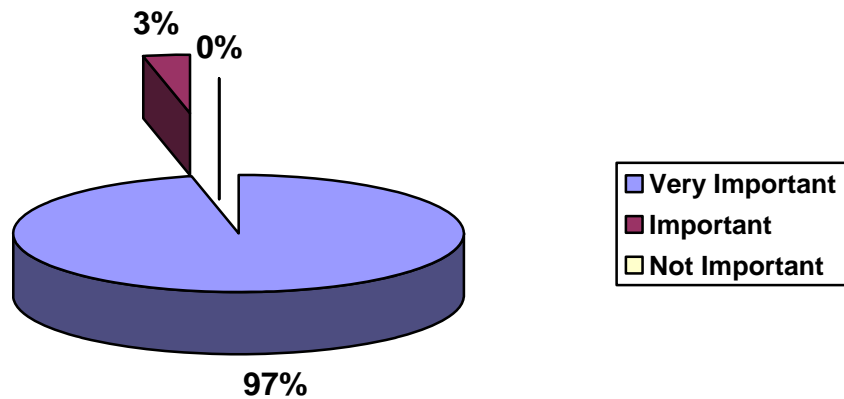
There were 14% of the teachers who replied 'not much' in answer to the question and 7% who replied 'very little'. This may reflect the fact that the co-curriculum does not specify detailed teaching on subjects such as marine life and destructive fishing.

4. How easy was it for students in your class to understand the messages from the Roadshow?



Overall, the teachers thought that the messages from the Roadshow were easy for the students to understand with 59% replying 'very easy' and 41% 'fairly easy'. The messages were conveyed clearly because of the simple and straightforward way they were presented to the school children by the Roadshow.

5. How important do you think it is for the students to learn more about the marine environment in their local area?



Virtually all of the teachers (97%) felt it is very important that the students learn more about the marine environment especially in their local area. It is clear that the teachers are well aware of the importance of marine environment education because none of the teachers answered 'not important' to the question above.

6. In your opinion, what are the main environment problems in Semporna?

Comments were as follows:

- Fish-Bombings
- Rubbish
- The existence of squatter houses that cause uncontrolled garbage disposal at sea
- Damaged coral reefs
- There is no self-awareness regarding the importance of the marine environment especially coral reefs.
- Not enough campaigns about '*environment pollution*'
- Insufficient education about the environment to the local community
- Insufficient knowledge about marine life
- Too little monitoring by the superintendent