

CORALINA
MPA Project
Capacity Building

School Program 1: video on MPA

Goal: get students aware of what Marine Protected Areas are, their importance to marine ecosystems, their benefits to users of the sea and how all of us can help make them real.

Schools identified	Date	Time
Adventist	Oct. 25	8:00 a.m.
CEMED	Oct. 25	9:15 a.m.
Luís Amigó	Oct. 26	10:20 a.m.
ITI	Oct. 27, 30	9:30 a.m. 10:30 a.m.
Rancho		
Bolivariano		
Sagrada Familia		
Natania		
Central Baptist		

Steps:

- Greetings (3')
- Brief introduction on MPA projects (general) (2')
- Show video (20')
- Talk about the archipelago MPAs project (names, zoning process, stakeholders participation, etc.)(10')
- Questions (10')
- Important facts about project (5')
- Handouts (3')

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Important facts about project: (5'). 1. Nearly 70% of fish all over the world spawn in mangroves and tidal areas, 2. Coral reefs are home to more than 30% of all fish species, 3. Reef ecosystems are the breeding ground for 90% of locally harvested sea life in small tropical islands, 4. 70% of the world's fishing grounds have been over-fished according to the United Nations, 5. Over 2/3 of the world's commercially fished stocks are overfished or already at their maximum sustainable limit, 6. 90% of marine catch comes from coastal waters which are the most damaged parts of the sea, 7. More that 3.5 billion people depend on oceans for their primary food source. Within 20 years, this number is expected to climb to 7 billion and the estimated maximum sustainable fishing amount of 100 million tons per year is already being exceeded. 8. An INVEMAR study revealed that 50% of the reefs in San Andrés coastal waters are dead, 9. Marine protected areas are proven to replenish fisheries in 2-10 years, 10. Marine protected areas are tested and proven to: Restore marine habitats, increase fishing catch, restore numbers of threatened species like turtles, conchs and lobsters, protect the rights of native fishermen, attract tourists and help the economy, reduce user conflicts, restore the natural ecosystem balance, 11. An estimated 21 million barrels of oil wash into the sea every year from roads and the land, 12. Every year for the past 10 years an average of 600.000 barrels of oil has spilled into the sea from shipping accidents, 13. $\frac{3}{4}$ of the world's oxygen supply is produced by tinny green plants or algae called phytoplanktons who live in sea. Contaminating the seas harms phytoplanktons and their ability to supply the earth with this oxygen that is necessary for all life.

- Handouts (3'): we give each student a bilingual document on CORALINA MPA project.

**CORPORATION FOR THE SUSTAINABLE DEVELOPMENT OF
THE ARCHIPELAGO OF SAN ANDRES, OLD PROVIDENCE AND
SANTA CATALINA
CORALINA**

**ENVIRONMENTAL EDUCATION PROGRAM
SEAFLOWER SYSTEM OF MARINE PROTECTED AREAS**

Text: Cesar Robinson

Dianira Calderon
Publicist

1. INTRODUCTION

The Archipelago of San Andres, Old Providence and Santa Catalina was declared as Biosphere Reserve by UNESCO Program called MAB (Man and Biosphere) on the 10th of November, 2000. This recognition will bring about benefits such as: protection of fisheries and agriculture, stimulation of ecotourism to attract researchers and teachers from all over the world to do studies on environmental issues (bioprospecting), etc. The MPAs Project is the Biosphere Reserve in the sea and its mission is to conserve biodiversity and ensure sustainable use of coastal and marine resources while enhancing equitable benefit distribution for the Archipelago community.

Stakeholders are aware of the negative impacts that exist on marine and coastal species and ecosystems due to overfishing, byfishing, anchoring, poor management of wastes, deforestation, etc., and would like to see conches and fish in abundance on nearby fishing grounds as they used to in the past. According to experts, Marine Protected Areas Projects are possible solution to these problems if stakeholders and community in general are willing to respect Multiple Use Zoning. This is the reason why communitary involvement is important and where the outreach education program is crucial to foster necessary consciousness.

2. DESCRIPTION OF PROBLEM

Marine and Coastal ecosystems as well as species of the Archipelago of San Andres, Old Providence and Santa Catalina have been impacted over the years by human activities. The purposes are basically massive tourism and thus economic interests. This is reflected in conches depletion in nearby traditional fishing areas as well as of lobsters and fish due to overfishing as the result of big and constant demands by hotels and restaurants.

Today, Artisanal Fishermen of San Andres Island are concentrating their activities in the Southern Keys (ESE and SSW) precisely because species on nearby shoals and banks are not as plentiful as they used to be, this means that going to them is not as feasible as going to the faraway keys mentioned, even though this demands bigger boats and expenses that maybe are not always recovered when catches are not effective as expected. In Old Providence and Santa Catalina most Artisanal fishers are now fishing outside the reef because

fish are not as abundant as before inside the reef on traditional fishing grounds.

Anchoring practices have also been destroying corals as well as spear gun fishing.

The most commented problem at meetings and workshops is industrial fishing, therefore it could be considered as a critical one.

Siltation is another which is due to deforestation but a real serious one is the lack of a sewage system and therefore the direct deposit of human wastes into the sea.

LEGAL FRAMEWORK

Legal-political concept of environmental education

In International Seminar on Environmental Education

1.1 MPAs EDUCATION PLAN

General Objectives:

- A. Offer community general information on MPAs.
- B. Foster community awareness about the long-term sustainable benefits that conservation can provide to our marine ecosystems through MPAs Projects.
- C. Provide community with information so they can make good decisions about the use of our marine and coastal resources.

1.1.1 MPAs GENERAL INTRODUCTION CLASSROOM ACTIVITIES

"MPA's should be designed to accomplish as many conservation objectives as possible and to protect and restore particular vital parts of coastal or ocean ecosystem (for example critical habitats such as prime coral reefs or mangrove forests.) " (**Salm Rodney, Clark Jhon and Siirila Erkki, Marine and Coastal Protected Areas, a guide for planners and managers**).

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Schedule:

Target Schools in SAI	Level	Date	Time
Sagrada Familia	10 th & 11 th	Feb.13 th	11:00 a.m.-12 m.
CEMED	7 th A	Feb. 14 th	10:30-11:30 a.m.
Colegio Deptal. Natania	9 th	Feb. 15 th	3:00-4:00 p.m.
El Rancho	Call next week		

CAJASAI	9 th & 10 th	Feb. 27 th	3:00- 4:00 p.m.
First Baptist School	9 th	Feb. 14 th	9:00-10:00 a.m.
Christian Mission	3d & 4 th	Feb. 12 th	10:30-11:30 a.m.
Escuela Nacional	3d & 4 th	Feb. 13 th	8:00-9:00 a.m.
CEMED	7 th B	Feb. 22 nd	9:00-10:00 a.m.

Target Schools in OP/SC	Level	Date	Time
Adventist School	6 th to 10 th	March 15 th	9:00-10:00 a.m.
María Inmaculada	4 th & 5 th	March 16 th	9:20-10:20 a.m.
Junin School	6 th & 7 th	March 20 th	8:00-9:00 a.m.
Junin School (Adults)	6 th to 9 th	March 20 th	5:00-7:00 p.m.
Junin School	8 th to 9 th	March 21 st	8:00-9:00 a.m.

AGENDA

Steps:

- Greetings (3')
- Brief introduction on MPA projects (general) (2')
- Show video (20')
- Talk about the archipelago MPAs project (names, zoning process, stakeholders participation, etc.)(10')
- Questions (10')
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- Handouts (3')

Steps Development:

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90% of locally harvested sea life in small tropical islands, 4. 70% of the world's fishing grounds have been over-fished according to the United Nations, 5. Over 2/3 of the world's commercially fished stocks are overfished or already at their maximum sustainable limit, 6. 90% of marine catch comes from coastal waters which are the most damaged parts of the sea, 7. More that 3.5 billion people depend on oceans for their primary food source. Within 20 years, this number is expected to climb to 7 billion and the estimated maximum sustainable fishing amount of 100 million tons per year is already being exceeded. 8. An INVEMAR study revealed that 50% of the reefs in San Andres coastal waters are dead, 9. Marine protected areas are proven to replenish fisheries in 2-10 years, 10. Marine protected areas are tested and proven to: Restore marine habitats, increase fishing catch, restore numbers of threatened species like turtles, conchs and lobsters, protect the rights of native fishermen, attract tourists and help the economy, reduce user conflicts, restore the natural ecosystem balance, 11. An estimated 21 million barrels of oil wash into the sea every year from roads and the land, 12. Every year for the past 10 years an average of 600.000 barrels of oil has spilled into the sea from shipping accidents, 13. $\frac{3}{4}$ of the world's oxygen supply is produced by tinny green plants or algae called phytoplanktons who live in sea. Contaminating the seas harms phytoplanktons and their ability to supply the earth with this oxygen that is necessary for all life.

- Handouts (3'): we give each student a bilingual document on CORALINA MPAs project.

1.1.2 MPAs GENERAL INTRODUCTION MEETINGS

Program 1: video on MPA

Goal:

1. Take general information on MPAs and Coral Reef Projects to Community: churches, acciones comunales, NGOs, etc.

Schedule:

Target Groups SAI	Date	Time
CHURCHES:		
Iglesia Bautista Hispana		
Central Baptist Church		
Iglesia Misionero Mundial		
Iglesia Católica El Carmelo		
Lighthouse Baptist Mission		
Schooner Bight Baptist Mission		
Adventist Fisher Rock Mission		
San Francisco de Asís		
Iglesia Estrella del Mar		
ENVIRONMENTAL NGOs:		
San José Obrero		
Barrack New Face		
Cove Alliance		
Fundación Madre Tierra		

Fundación Paraíso		
Nuevo Archipiélago		
Porcicultores		
ACCIONES COMUNALES:		
César Gaviria		
El Cocal		
San Luís		
Perry Hill		
Cove		

Target Groups OP/SC	Date	Time
CHURCHES:		
Central Baptist Church	March 16th	7:30 p.m.- 8:30 p.m.
Salt Creek Baptist Church	March 21th	7:00 p.m. – 8:00 p.m.
Adventist Church Town	March 26th	7:00 p.m. – 7:30 p.m.
ENVIRONMENTAL NGOs:		
Trees & Reefs Foundation	March 26 th	5:00 p.m.- 6:00 p.m.
ACCIONES COMUNALES:		

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1.1.3 MPAs EDUCATION WORKSHOP

Goals:

- A. ?
- B. ?
- C. ?

4.3 Booklet (General Introduction to MPAs).

Strategy:

Booklet will be introduced to schools, churches, acciones comunales, NGOs, traditional users, stakeholders etc., at meeting, workshop, classroom activities, etc.

Schedule:

Booklet	Target Group	Place	Date

Table:

Design Table for each flyer and booklet taking into account Where it will be developed, how, when and to/for whom

5. ZONING CONSULTATION PROGRAM

5.1 ZONING CONSULTATION WORKSHOP SAI

Goals:

- A. Stakeholders will identify marine sites on maps according to their activities.
- B. Stakeholders will do zoning exercises on maps to determine necessary areas to set up MPAs system.
- C. Get stakeholders to establish external boundaries of MPAs.

Schedule:

Activity	Target group	Place	Date
Zoning Consultation Workshop	Stakeholders (Water Sports)	Hotel Casablanca	Feb. 27, 2001

AGENDA:

Steps:

1. Welcome and brief Introduction to workshop (30')
2. Organize stakeholders on tables according to marine and coastal activities they perform.. Group 1: Divers, Group2: Jet Ski, Group3: Kayaks, Sunfish, Windsurf, Bicycles, Catamaran, Group 4: Semisubmersible, Launches, Yachts, Worms. (5')
3. Stakeholders are given instructions on what are the outcomes expected from workshop (5')
4. Stakeholders work identifying and mapping their work sites (45')
5. Establishing zones (No-entry, No-take, Artisanal Fishing, General Use, Recreational) (45')
6. Break (20')
7. Stakeholders get back to work to agree definite zoning among the four groups on one map (60')

People Invited to Zoning Workshop (Water Sorts) in San Andres:

Edgar Mejía : Divers Dream

Darío León Zúñiga: Aquamarina

Eduardo García: Blue Life

Ramón Castro: Moncho jet ski

Edgar Celis: Manatí and Launch Coop.

Rafael Mercado: Sevicios Turísticos acuáticos

Gabriel Zuluaga: Barlovento

Roger Madero: Sharky Dive Shop

Samuel Raigosa: Jet ski, frente Hotel decamerón

Nubia Robinson: Bar Boat Sea Center, San Louis

Ana María Gutierrez: San Andrés Divers

Alvaro Molina: Funny Splash

Jaime Restrepo: Ocean tours, cc New Point, piso 2 (o entregar a Melba en turismo Suarez Osorio, Hotel Sunrise Beach)

Julio Gallardo Barrios: Tonino's Marina

Hassan Tannir: Buzos del Caribe

Amparo Velilla: Representaciones Mundo Marino. CC New Point, local 234