



Workshop

Manatee Regional Monitoring in the Mesoamerican Reef Region

October 22 - 23, 2015

Clarion Suites Hotel, Guatemala City

Objectives:

- To present the Initiative Regional Monitoring and Management of Manatees in the MAR region
- To understand the needs of protected areas managers regarding manatee monitoring and management, and to provide responses and recommendations
- To establish collaboration among partners to create a regional and participatory monitoring plan
- Develop long-term vision: to conduct the survey every two years and share the information with decision-making entities
- To coordinate and plan the next regional survey

DAY 1 – Morning session - all participants

TIME	ACTIVITY	RESPONSIBLE	HOOR
15 min	Welcome	MAR Fund	8:30 AM
15 min	Opening of the event	Benedicto Lucas, Executive Secretary of CONAP	8:45 AM
25 min	Introduction of participants and their connection to research and conservation of manatees.	Everybody	9:00 AM
50 min	Background and history 1. Background (why are we here) What has been done and what we are trying to accomplish Why we decided to bring everybody together to collaborate in one regional survey 2. Introduction of team	Armando J. Ubeda	9:25 AM
10 min	Break	N/A	10:15 AM

80 min	<p>Objectives of 2014 survey</p> <ol style="list-style-type: none"> 1. Introduction - types of surveys, challenges, uses and successes 2. Regional 2014 <ol style="list-style-type: none"> a. Methodology b. Applications c. Our goals and objectives <p style="text-align: center;">QUESTIONS</p>	Dr. Holly Edwards	10:25 AM
60 min	<p>Result of 2014 survey – brief description of area covered, summary stats: number of days, miles, hours, counts,</p> <ol style="list-style-type: none"> a. Mexico (how many hours, areas, flight paths) b. Belize c. Guatemala d. Combined data (maps) <p>QUESTIONS</p>	Benjamin Morales (a) Holly Edwards (b, d) Ester Quintana (c)	12:45 PM
70 min	Lunch	N/A	

DAY 1 – Afternoon session - all participants

TIME	ACTIVITY	RESPONSIBLE	HOOR
60 min	<p>Presentation by country (national plans, status)</p> <p>QUESTIONS</p>	<p>Government representatives</p> <ul style="list-style-type: none"> • Mexico • Belize • Guatemala • Honduras 	2:15 PM
10 min	Break		3:15 PM
180 min	<p>Presentation by area</p> <ol style="list-style-type: none"> a) Description of site b) Conservation activities c) Threats d) Challenges <p>QUESTIONS</p>	LightHawk / MAR Fund	3:25 PM
10 min	Closing words for the day and explanation of the work methodology for the discussion next day	Armando Ubeda	6:25 PM

DAY 2 – Morning session - all participants

TIME	ACTIVITY	RESPONSIBLE	HOOR
120 min	Discussion by group: <ol style="list-style-type: none"> 1. Managment needs for protected areas and non-protected areas 2. Monitoring needs of protected areas 3. Recommendations 	LightHawk / MAR Fund	8:30 AM
10 min	Break		10:30 AM
45 min	Continuation of group work	LightHawk / MAR Fund	10:40 AM
60 min	Agreements and next steps	Armando Ubeda / Claudio González	11:25 PM
10 min	Closing	MAR Fund	12:25 PM
60 min	LUNCH		12:35 PM

DAY 2 – Afternoon session – Research team

TIME	ACTIVITY	RESPONSIBLE	HOOR
180 min	Discussion by group future surveys <ol style="list-style-type: none"> 1. Define our objectives (distribution, abundance, minimum count, habitat use) 2. Survey Logistics <ol style="list-style-type: none"> a. What did we learn from 2014 surveys: What worked? What can be improved? b. Maps (standardize maps, how should they look and at what scale should they be, top sheet, GPS units etc.) <ol style="list-style-type: none"> i. Who is responsible for making the maps? Do we have resources to outsource this task? 3. Timing of surveys (what season or seasons and how often, this may be determined after talking to managers) 4. Pilots, plane and schedule (e.g., number of days needed to accomplish each segment) 5. Data entry 6. Observers and training <ol style="list-style-type: none"> a. Who is the primary observer for each country and who the secondary is, etc.) b. Criteria for observers c. Who needs to be trained 7. Data analysis and publication of results 8. Following steps <ol style="list-style-type: none"> a. Date for next meeting 	Research team	2:00 PM
15 min	Closing	Armando Ubeda / María José González	5:00 PM