

Satellite Remote Sensing Tools
for Monitoring Thermal Stress Leading to Coral Bleaching
NOAA Coral Reef Watch Satellite Products
23-25 January 2006, St. Croix, USVI

Speakers: Dr. Al Strong Alan.E.Strong@noaa.gov
 Dr. William Skirving William.skirving@noaa.gov

MONDAY – 23 January

8:30 – 10:00 Arrival

10:30 Satellites and Remote Sensing

An overview of satellite remote sensing of coral reefs

Introduce the fact that we are only concerned with remotely sensing bleaching at this point in time and that we will only deal with SST derived products in this workshop.

11:30 Satellite SSTs

12:15 *Lunch – 60 min*

1:15 Hydrodynamics of a bleaching event

An overview of the role of hydrodynamics in a bleaching event

2:00 Overview of all Coral Reef Watch satellite bleaching products

2:30 *Afternoon break – 15 min*

2:45 SST product overview and exercise

3:15 SST anomalies overview and exercise

4:00 Discussion

4:30 *Conclusion of 1st Day*

TUESDAY – 24 January

9:00 HotSpot and DHW overview

9:45 Historical HotSpot & DHW Review

10:30 *Morning Break – 15 min*

10:45 HotSpot and DHW exercise

11:30 *Lunch – 60 min*

12:30 Overview of current CRW product development

1:15 Discussion and feedback

2:00 Jim Hendee / Louis Florit

Establishing Coral Reef MPA Managers' Requirements to Guide Integrative Observing System Tool Development

2:45 Liane Guild

NASA Airborne Remote Sensing of Coral Reef of Puerto Rico and the US Virgin Islands

3:30 *Afternoon Break and Meeting Transition – 30 min*

Caribbean Bleaching Response Working Group

23-25 January 2006, St. Croix, USVI

Organizers: Dr. Mark Eakin Mark.Eakin@noaa.gov
Dr. Andy Bruckner Andy.Bruckner@noaa.gov
Shauna Slingsby Shauna.Slingsby@noaa.gov
Tyler Christensen Tyler.Christensen@noaa.gov

4:00 Caribbean 2005 Bleaching Response – Intro

Description of the event and NOAA's involvement
SST records from the Coral Reef Watch Program
Regional patterns of bleaching (e.g., summary of data so far)
ICRI and USCRTF Resolutions on bleaching
Regional surveys (AGRRA, ReefCheck)

5:15 BVI Presentation (15 minutes including questions) Shannon Gore

5:30 Conclusion of 2nd Day

WEDNESDAY – 25 January

8:30 USVI Presentations (15 minutes including questions)

Jeff Miller/Erinn Muller
Tyler Smith
Chris Jeffrey

9:30 Puerto Rico Presentations (15 minutes including questions)

Edwin Hernandez
Andy Bruckner
Reni Garcia

10:30 Morning Break – 15 min

10:45 Future Plans

Mark Drew: TNC bleaching response and resilience testing
Shauna Slingsby/Andy Bruckner: NOAA's Caribbean Monitoring Initiative
Mark Eakin: Getting the information out (ITMEMS special session, GCRMN state of the reefs, Eakin-led bleaching paper, other papers)

11:15 Open Discussion

Research priorities
Manager's needs
Gaps in spatial coverage
Monitoring approaches
Ways to improve collaboration

12:00 Lunch – 60 min

1:00 Discussion: Where to go from here?

Documenting the event

How do we prepare for next time?

Resource needs

Rapid response teams (?)

Interactions with managers

2:00 Wrap-up and Assignments

2:30 Conclusion of meeting