Kauai Coral Disease Informational Briefing

The meeting will begin shortly,

thank you!

6/20/2013

3-5pm

Anne Rosinski – NOAA Coral Reef Management Fellow

- **The Fellowship**
  - Through the NOAA Coral Reef Conservation Program
  - 2 years
- **My background**
  - (2012) MPS : Tropical Marine Ecosystem Management
  - Community-based monitoring projects
- **Projects**
  1. Makai Watch Biological Monitoring Guidebook
  2. Coordinating W. Maui & Molokini CAPs
  3. **Implementing Hawaii's Rapid Response Contingency Plan**

Implementing Hawaii's Rapid Response Contingency Plan

- Created in 2008
- Components:
  1. Eyes of the Reef
  2. Assessment and Monitoring Tools for Response
  3. **Management Framework**

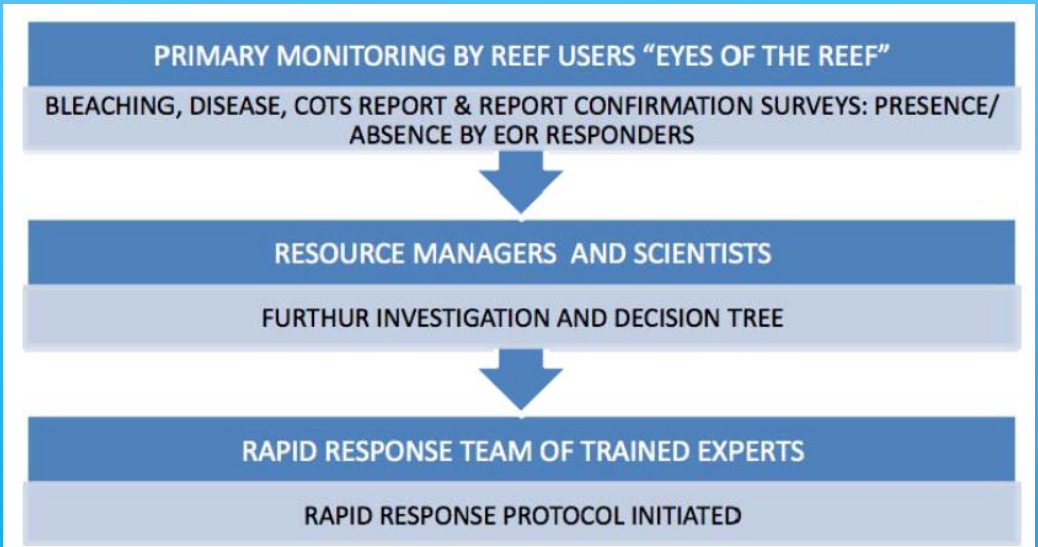

Figure 7. Tiered structure of the RRCP.

RRCP Next Steps (from 2008)

1. DAR should appoint a staff member to guide the RRCP process
2. Response Management Team and Rapid Response Team
3. Decision tree for determining event response
4. Communication with media and public
5. Permitting process
6. MOAs between agencies, labs, and data sharing
7. Funding for response activities
8. Agreements on boat and equipment use
9. Dive plans and letters of reciprocity

Decision Criteria – Environmental Conditions

Forecasted Bleaching Risk	NOAA Coral Reef Watch	SST Anomalies	Freshwater Indicators	Storm Indicators
None	No Stress (no thermal hotspots)	Ambient average summer temperature (28.7°C)	No flooding reported	Ambient weather patterns
Low	Bleaching **Watch** (some thermal hot spots but no stress history)	NWS predicts SST anomalies >1-2°C above summer ambient temp for > 1-2 days	NWS reports "**Minim** oding a coastal River G (minimal or no pr rty damag t possible public th	**Category 1/2** Wind 64-95 knots, storm surge 1.7-2.5 some building damage, large trees blown down
Moderate	Bleaching **Warning** (possibl bleaching, thermal h ots and stress histor	NWS predic T anor es >3- bove mer bient tem > 1 2°C sev veeks	S repo **Mode** " Flooding at er G (some ndation o uctures and roads ar stream, some evacuations of people and property)	**Category 3** Wind 96-113 knots, storm surge 2.6-3.8 m, some building damage, large trees blown down
Severe	Bleaching **Alert Level** (Bleaching Likely,) or **2** (Mortality Likely) High levels of both thermal hostpots and stress history	edicts SST anomalies >3-4°C above summer ambient temp for > 4-5 days OR >1 month >1-2°C above summer ambient	NWS reports "**Major**" Flooding at a coastal River Gauge (extensive inundation of structures and roads, significant evacuations of people and property)	**Category 4/5** Wind 114-136+ knots, buildings fall over, storm surge 5.6+ m, widespread loss of roofs, some buildings destroyed, all trees blown down

Decision Criteria – On-site Observations

Observed Bleaching Severity	Effects to highly sensitive species	Effects to resistant species	Effects to VERY resistant species	Area of Reef Affected
None	None	None	None	No Bleaching
Low	Severe bleaching of many (10-50%)	Severe bleaching of so…%	Paling to any …ny	Bleaching confined to reef flat
Moderate	Severe bleaching of …t (>50%)	Se… bl…ng of ma… (10-…	Se… bleaching of so… (<10%)	Bleaching extends deeper than reef flat
Severe	Motality of many (…%)	Sev… bleaching of most (>50%)	Severe bleaching of many (10-50%)	Bleaching extends deeper than upper reef slope

Decision Criteria – EOR Reports

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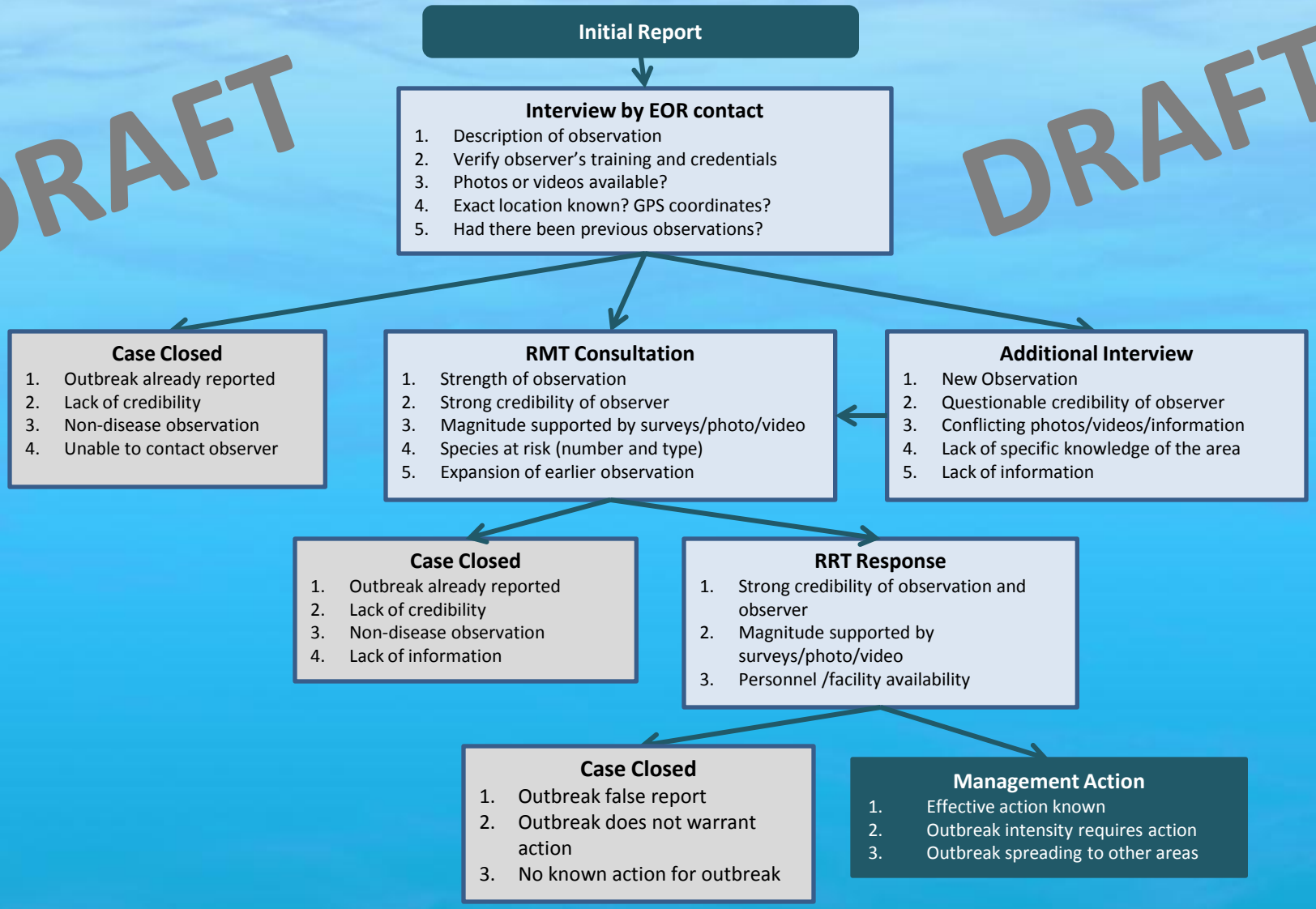
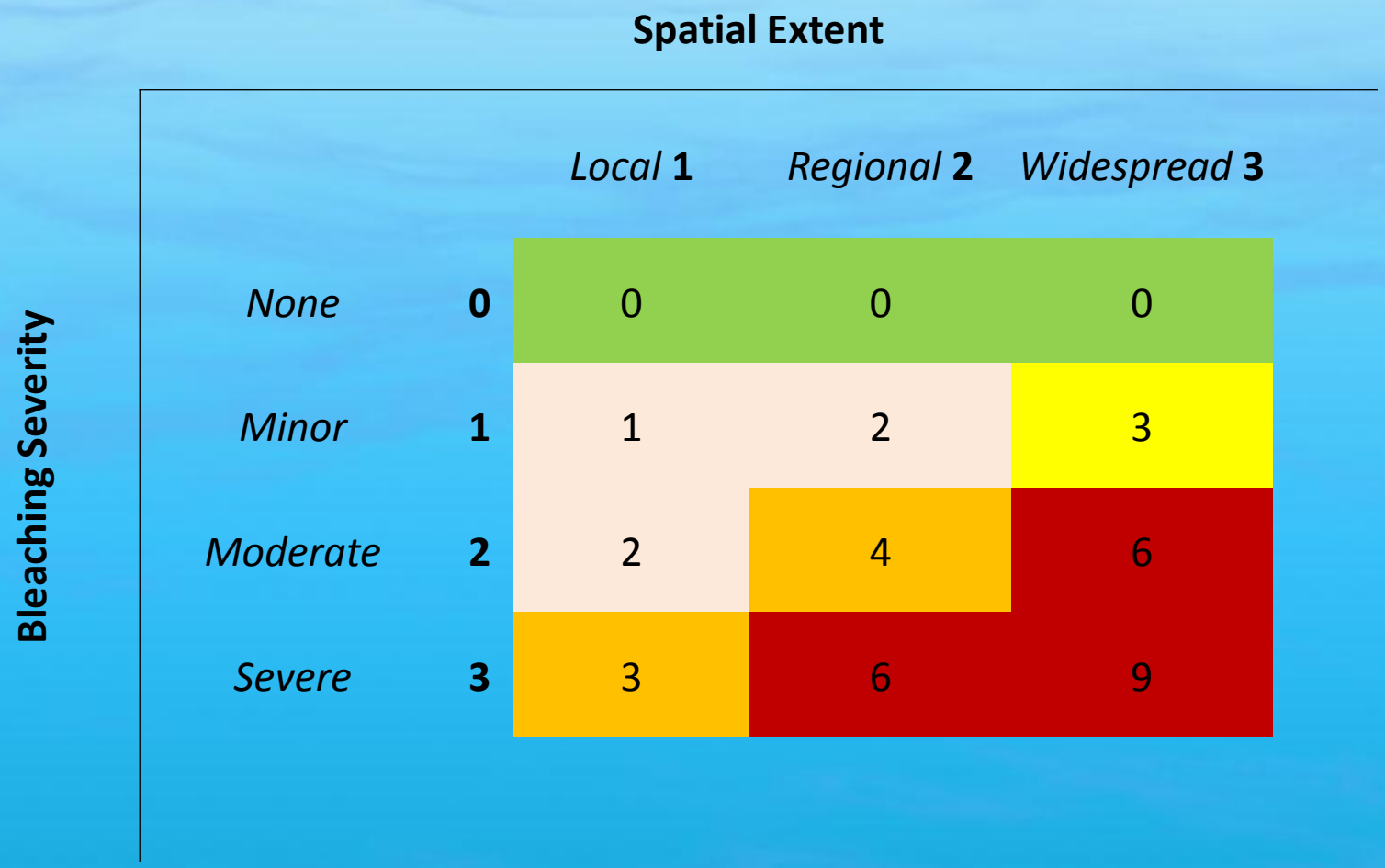


Decision Criteria- Situational Analysis



Immediate Next Steps

- **Workshop late summer/early fall**
- Gather input on personal experiences, lessons learned
- Further develop decision criteria
- Continue working with Eyes of the Reef
- Media and public communication