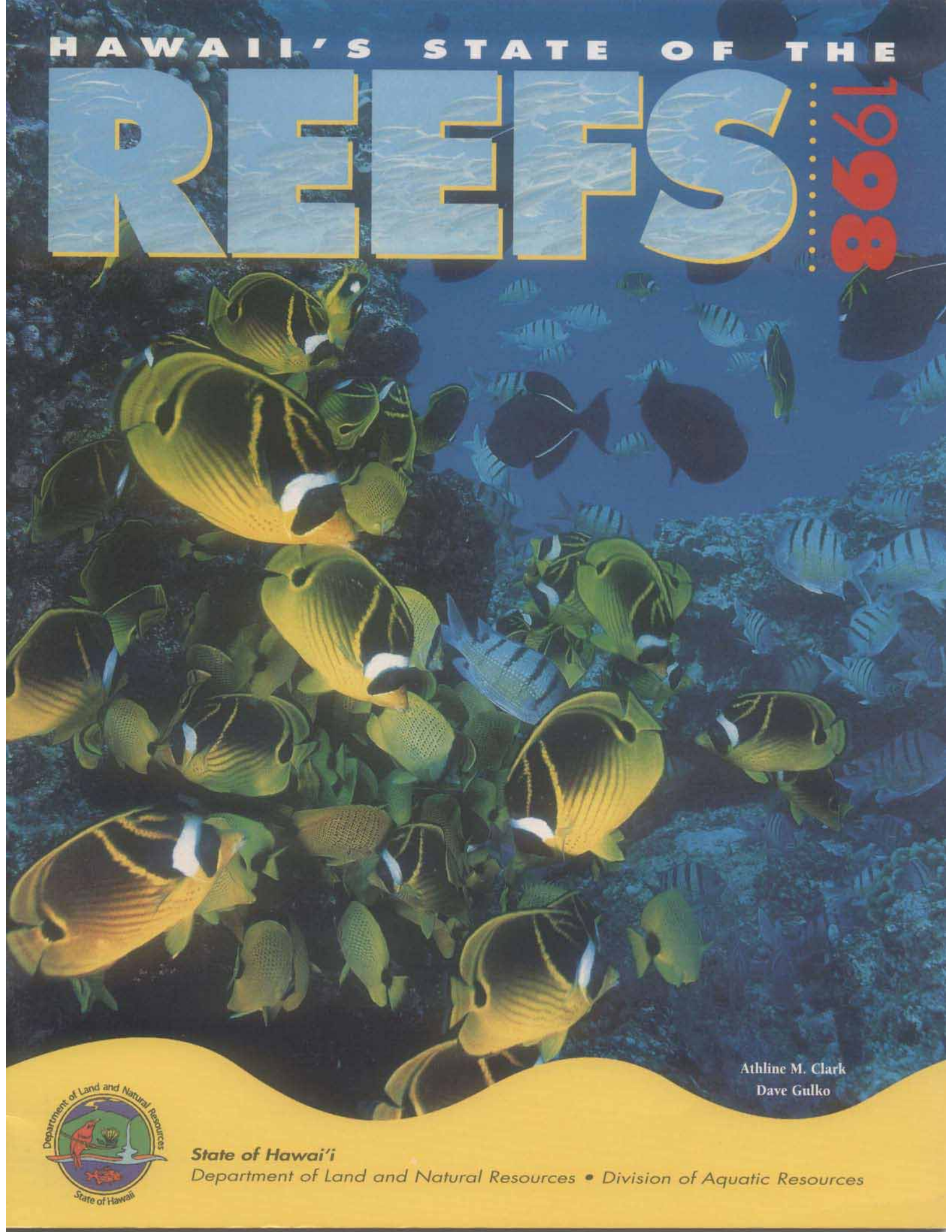


HAWAII'S STATE OF THE

# REEFS

1998



Athline M. Clark  
Dave Gulko



*State of Hawai'i*

*Department of Land and Natural Resources • Division of Aquatic Resources*

# MANAGEMENT STATUS REPORTS

- Status of Reef-Associated Organisms
- Alien Species
- Aquarium Fish
- Coastal Development and Water Quality
- Fisheries
- Marine Protected Areas
- Marine Tourism
- Shipping and Oil Spills

## WHAT WERE THE MAIN CAUSES OF HAWAIIAN CORAL REEF DEGRADATION IN 1998?

*Keep in mind that this chart only applies to those areas of a listed island that contain coral reefs and not necessarily to the island as a whole.*

	NWHI	Kaua'i	O'ahu	Moloka'i Lana'i	Kaho'olawe	Maui	Hawai'i
<b>NATURAL IMPACTS</b>							
Hurricanes & Storms							
Acanthaster Outbreaks							
Coral Bleaching							
Coral Diseases							
<b>ANTHROPOGENIC IMPACTS</b>							
Alien Species							
Aquarium Fish							
Fishing - Commercial	1						
Fishing - Destructive			2				
Fishing - Recreational					3		
Marine Debris							
Oil & Chemical Spills	4	5					6
Pollution/Nutrients - Agricultural							
Pollut./Nutr. - Urban/Industrial							
Sediment Runoff							
Tourism & Leisure	7						
Urbanization - Coastal							
Urbanization - Dredging							8

- No Impact
- Minimal Impact
- Moderate Impact
- Major Impact

- 1 Primarily Kure Longliner Grounding Oct. '98
- 2 Chlorine Poisoning Case South Shore of O'ahu & Deep Water Gill Nets Wa'ianae Coast
- 3 Entirely Indigenous Fishing
- 4 Primarily from the Kure Grounding Incident Oct. '98
- 5 Includes Tesoto Oil Spill
- 6 Includes Keahole Point Chemical Spill Sept. '98
- 7 Midway Ecotourism Operation
- 8 Includes Kawaihue Harbor Expansion

