

Climate-Ready Management of Living Marine Resources:

Part 1 - Assessing Risks and Impacts

Part 2 – Planning and Action

National Adaptation Forum

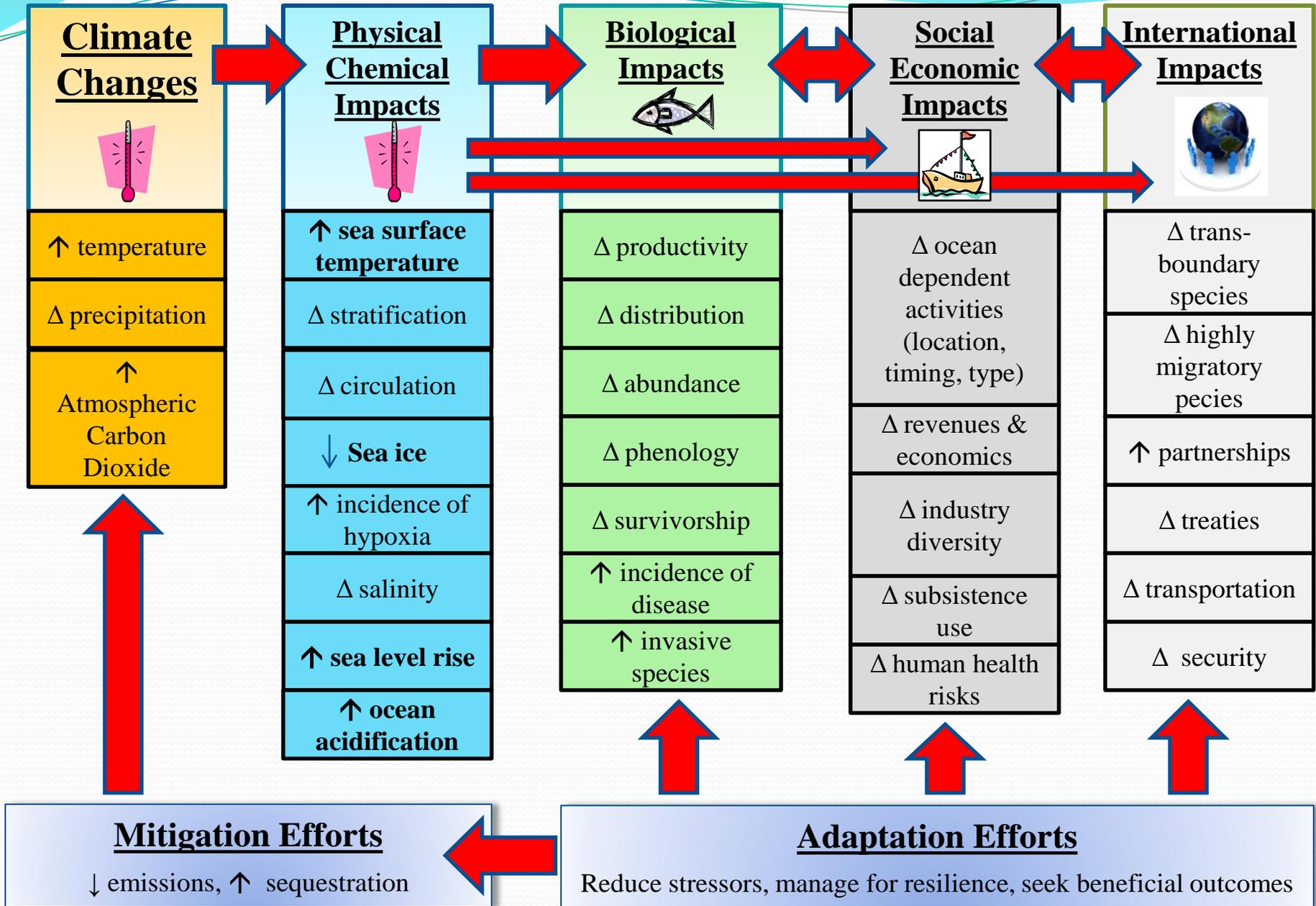


Impacts and Risks In a Changing Climate

- **Climate change is already impacting marine ecosystems** and the communities & economies that depend on them.
- **These impacts are expected to increase.**
- **There is much at risk** domestically and internationally (food, jobs, revenue, human health, security, heritage etc).
 - Food: 1.5 billion people (world-wide)
 - Fisheries Jobs: 43.5 million (world-wide), 1.3 million (US)
 - Fisheries economies: \$200 B in sales/income impacts (US)
 - Coastal economies: 60 % GDP (US)
 - International relations, transportation and security issues



Impacts of Climate Change on Marine Ecosystems



Part 1: Assessing Risks and Impacts

Malin Pinsky, Princeton University

Using local climate velocity to guide North American marine conservation planning



Michael Alexander, NOAA/Earth System Research Lab

Climate change projections: opportunities and challenges for application to ecosystems



Lara Whitely Binder, Climate Impacts Group, UWash

Vulnerability assessment of fish stocks and fisheries in a changing climate



Questions/Discussion



Part 2: Planning and Action

Vera Agostini, The Nature Conservancy

Assessing the vulnerability of tropical fisheries: examples from the Caribbean



Robert Pomeroy, Connecticut Sea Grant/Univ of Conn

Incorporating climate and ocean change into an ecosystem approaches to fisheries management (EAFM) plan



Robert Glazer, Florida Fish and Wildlife Commission

Dealing with Uncertainty: Using scenario-planning to assess risk and develop management solutions



Suzanne Langridge, Natural Capital Project

Incorporating natural capital in coastal climate adaptation planning: Lessons from the field

