



NOAA
FISHERIES

Gulf of Alaska Regional Action Plan 2.0

NCSS Timeline

2015. NOAA Fisheries Climate Science Strategy published. Provides for the creation of 5-year Regional Action Plans to guide climate-oriented research regionally.

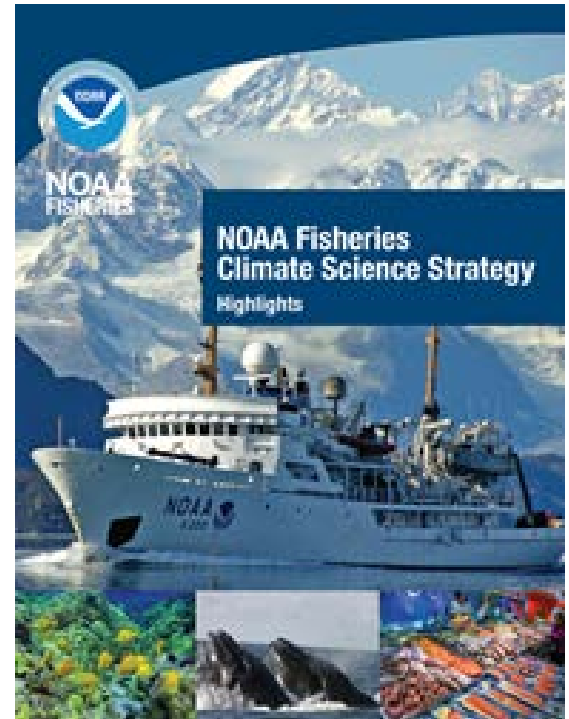
2017. Work began on GOA RAP.

2018. Gulf of Alaska RAP published

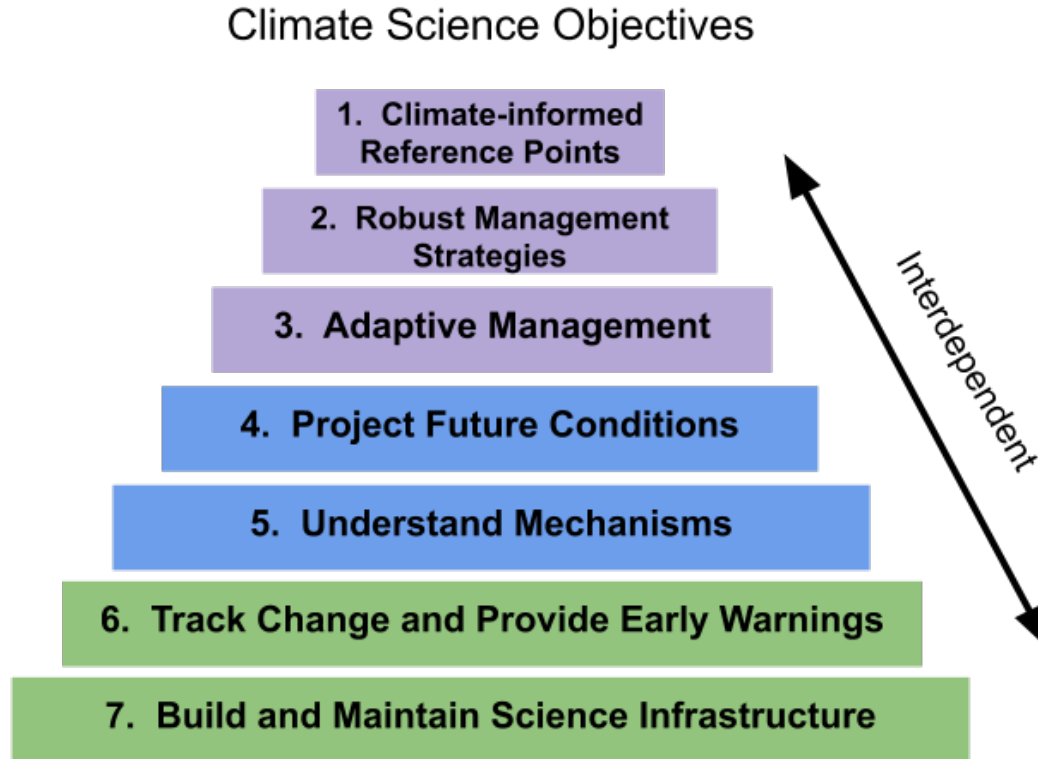
2020. Fifth anniversary of NCSS. Work began on 5 year syntheses of progress to date on the RAPs.

2021. Five year synthesis completed.

2021. Headquarters directive to update the RAPS for an additional 3 years, with a completion target in fall 2021.



Conceptual Frameworks #1-NCSS Pyramid



Conceptual Frameworks #2: Three-legged stool (acknowledgements to Mike Sigler)



1. Monitoring

Objective 7. Build and maintain the science infrastructure need to fulfill NOAA Fisheries mandates with changing climate conditions.

Objective 6. Track trends in ecosystem, LMRs, and LMR-dependent human communities and provide early warning of change.

2. Process studies

Objective 5. Identify the mechanisms of climate impacts on ecosystems, LMRs, and LMR-dependent human communities.

3. Modeling

Objective 4. Identify future states of marine and coastal ecosystems, LMR and LMR-dependent human communities.

Objective 3. Design adaptive decision processes that can incorporate and respond to changing climate conditions

Objective 2. Identify robust strategies for managing LMRs under climate conditions

Objective 1. Identify appropriate, climate-informed reference points

RAP 1.0 highlights

Informing Management (NCSS Obj. 1-3)

- Starting development of a multi-model framework to evaluate OY range and biological reference points under projected climate scenarios.

Understanding Mechanisms and Projecting Future Conditions (NCSS Obj. 4&5)

- Improved understanding of marine heatwaves on northeast Pacific groundfish and Pacific cod
- Development of the initial phase of place-based IEA for Sitka, AK, including conceptual models and ecosystem indicators.

Infrastructure and Tracking Change (NCSS Obj. 6&7)

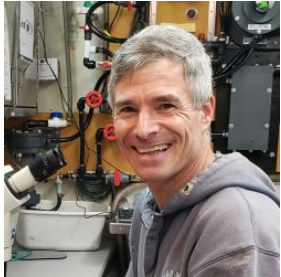
- Annual ecosystem status reports
- Early warnings of ecosystem and economic conditions through the 'Spring PEEC' workshops.
- Development of the Ecosystem and Socioeconomic Profiles (ESPs) framework
- Ecosystem monitoring surveys and expansion of sampling capabilities on moorings

Structure of the RAP working group



Overall lead:
Martin Dorn

Sub-lead:
Monitoring



Rob Suryan

Sub-lead:
Process studies



Lauren Rogers

Sub-lead:
Modeling and
Management



Olav Ormseth

Sub-lead:
Marine mammals



Brian Fadely

Sub-lead:
Socio-economics



Marysia Szymkowiak

RAP Updates 2.0



Goals:

- Update the RAPs to identify the key needs, goals, and proposed actions over the next 3 years to address regional priorities for climate-related information and tools.
- Identify specific goals, targets and metrics to better track and communicate progress.
- Reinforce and expand engagement and collaboration.
- Increase efforts to implement the NCSS.

GOA RAP 2.0 timeline



Phase 1: Engagement (April-May, completed)

Phase 2: Development (June-July, just starting)

Phase 3: Finalize (August-September, present to SSC and Council in October)