

CLIMATE CHANGE TASK FORCE

WORKPLAN OVERVIEW

D2 SSC

April 2022

April 4, 2022

CCTF Members:

Co-chair: Diana Stram (NPMFC): diana.stram@noaa.gov

Co-chair: Kirstin Holsman (NMFS- AFSC) : kirstin.holsman@noaa.gov

Lauren Divine (Aleut Community of Saint Paul Island)

Scott Goodman (Natural Resources Consultants/BS Fisheries Res. Foundation)

Jason Gasper (NMFS-Regional Office)

Mike LeVine (Ocean Conservancy)

Steve Martell (SeaState)

Brenden Raymond-Yakoubian (Sandhill Culture Craft)

Jeremy Sterling (AFSC Marine Mammal Lab)

Todd Loomis (Ocean Peace, Inc.)



The goal of the Climate Change Module is to facilitate the Council's work towards climate-ready fisheries management that helps ensure both short- and long-term resilience for the Bering Sea.



Objective 1



COLLATE

Coordinate the review of existing and emergent climate information on impacts, adaptation, and residual risk.

Objective 2



SYNTHESIZE

Assess key climate change impacts, adaptation actions, and residual risk.

Objective 3



COMMUNICATE

Summarize and communicate potential risks and adaptation actions.

- **Objective 1. Collate:**
Evaluate the mechanisms and processes through which climate change information is currently included in the fishery management process, identify gaps, and help create opportunities to increase the inclusion of available information
- **Objective 2. Synthesize:**
Synthesize information about long-term climate change impacts and scenarios and help create pathways for inclusion of that information in the fishery management process.
- **Objective 3. Communicate:**
Identify potential management tools and actions for consideration by the Council that could help increase resilience and adaptation to climate change impacts

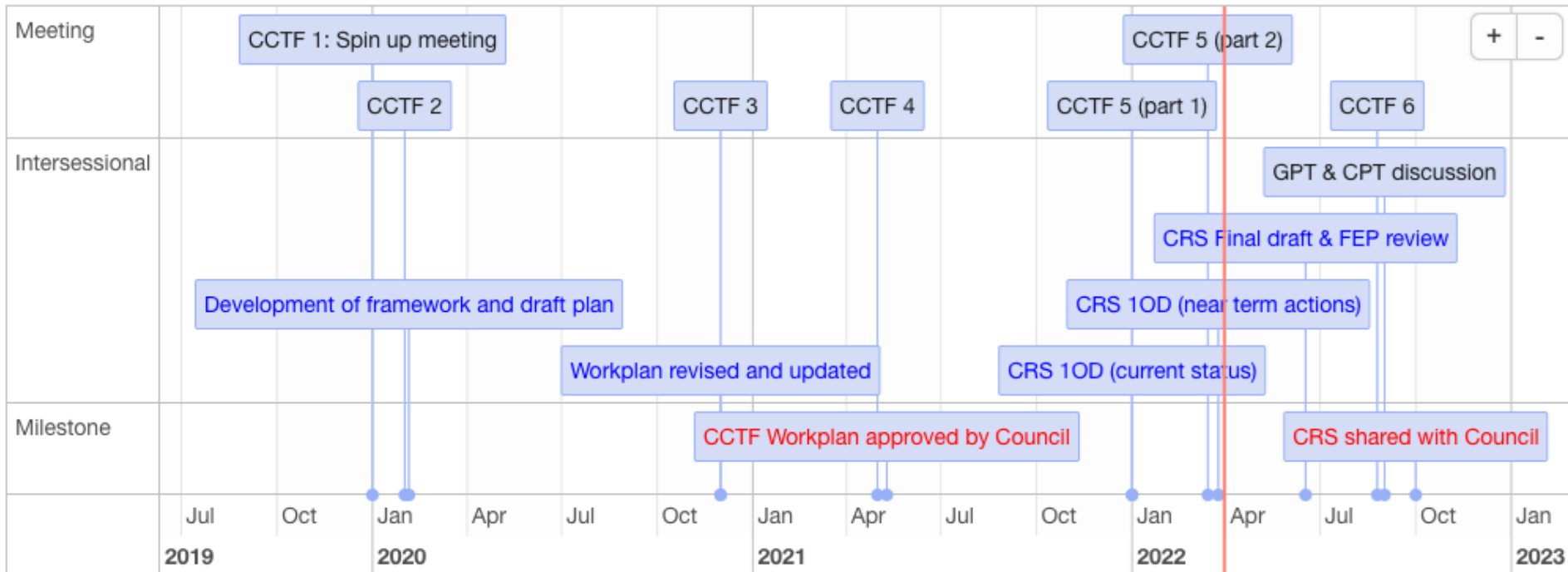


CCTF MEETINGS TO DATE

- January 2020: spin up meeting and update to Council bodies (Ecosystem Committee, SSC/AP/Council)
- February 2020 CCTF meeting 2:
 - Initial development of framework and proposed process
 - Initial draft of work plan
 - Update to FEP (March meeting)
- December 2020 CCTF meeting 3
- May 2021 CCTF meeting 4
 - Workplan approved by Council
- January 2022 meeting 5 (part 1)
- March 2022 meeting 5 (part 2)



CCTF TIMELINE



Update on Meeting 5 (part 1)

- January 2022: 3 day meetings and breakout sessions
 - Some work on Miro boards to ID connections with case studies for snow crab, pollock and YFS
 - Next focused work on 3 sections of Climate readiness report (break into subgroups)
 - Management Overview
 - Knowledge Base Overview
 - SAFE report review for climate change information
 - Outlined sections of all 3 and assigned 'homework' for sub-groups for Meeting 2 review and synthesis
 - Draft Climate Synthesis report for review and comment for Council meeting



Update on meeting 5 (part 2) and plans for April review

- Mar 14-16 2022
 - CCTF Meeting link:
<https://meetings.npfmc.org/Meeting/Details/2853>
 - 2 day half day meeting with time for sub-groups to work in the afternoons after each meeting on sections
 - Initial plan (then modified) was Climate Readiness Synthesis (rough draft) for April review



Day 1

8:00 - 8:30 Welcome, review agenda and objectives: [Overall Plan](#)

8:30 - 9:15 Status updates from each group:

Review Climate readiness synthesis update by group [nominate one person to talk through update issues, problems, where they are at] with objective to spend the afternoon with your subgroup offline working to finalize a draft

9:15 - 10:15 Adaptation discussion

- Review of IPCC report - fisheries relevant pieces for us to consider [Holsman]
- What to plan for or think about in terms of part B adaptation measures to discuss on day 2

10:15 - 10:30 Break

10:30 - 11:30 Ecosystem Matrix as a potential framework to be adopted/modified for CCTF

11:30 - 11:45 Public comment

11:45 - 12:00 Wrap up and prep for day 2

Afternoon to work offline with your subgroups to finalize Climate Readiness synthesis reports for Tuesday. To be posted by Diana by COB to eAgenda for review and revisions by CCTF

Day 2

Day 2 March 16 8-1:15 AK time

8:00 - 8:30 Welcome, review agenda, and tasks for the day

8:30 - 9:15 Review by group of draft Climate Readiness synthesis; online editing as needed

9:15 - 9:30 Break

9:30 - 10:30 Discussion (will take public comment during remainder of agenda within the CCTF discussion)

- How would you characterize the current state of climate readiness?

10:30 - 11:30 Brainstorming session - future directions and investments

- What are future climate readiness measures that are needed?
- What can increase climate readiness and resilience in the near future?
- What can increase climate readiness and resilience long term?

11:30 - 12:30 Prioritization of future actions based on effectiveness and feasibility

- What are some high feasibility options from above?
- What are some high effectiveness options from above?
- What are the top 3 options for immediate action?

12:30 - 1:00 Wrap up



Discussions by CCTF

- EcoMatrix (CCTF minutes pages 2-3)
 - Council request for CCTF to review stakeholder EcoMatrix put forward in public testimony
 - Comments and concerns listed in minutes and focused on the following:
 - Connections between elements in matrix, transparency of data and connections, data selection methodology, range of potential outcomes, application of this as a tool, overlap with existing efforts (e.g. ESPs)
 - General support for concept but requires further development and data references to connections proposed
- Future directions and considerations (CCTF minutes pages 3-4)
 - Plan to finish up Climate Readiness Synthesis (next slides)
 - Following that move to Objectives 2 and 3 in future planning
 - Brainstorming session of ideas moving forward



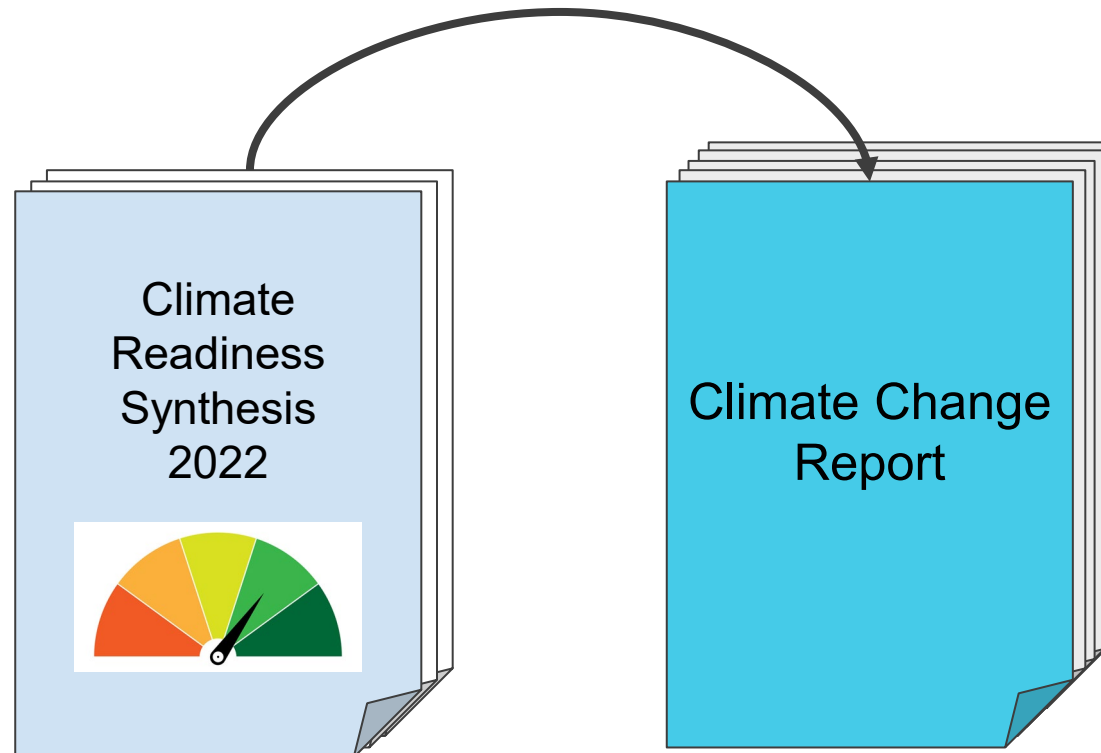
Updated Planning

- CCTF meeting 6 in August
- Plan Team review September
- Full Climate Readiness Synthesis for October



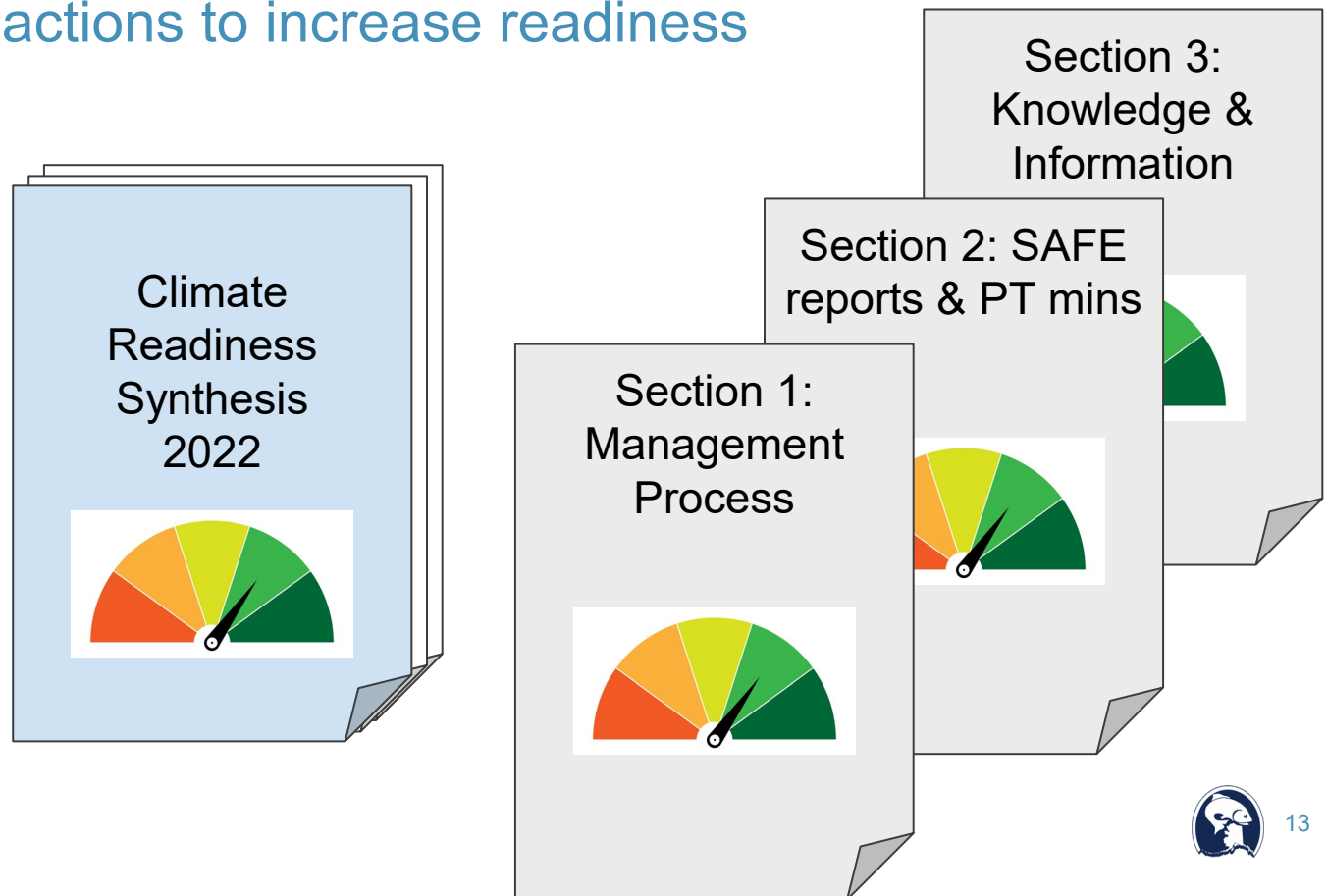
Climate Readiness Synthesis (2022)

Assessment of climate change readiness
& near term actions to increase readiness



Climate Readiness Synthesis (2022)

Assessment of climate change readiness
& near term actions to increase readiness



Progress to date by section

Section 1: Management Process



Completed/remaining: Section 1 Management

- **Ranking Table**
- *Policy and management framework overview*
- *Include assessment of current climate change readiness or information*
 - *Table of management tools*
- **Include near-term / low hanging fruit actions, modifications to advance climate readiness**

Management measures

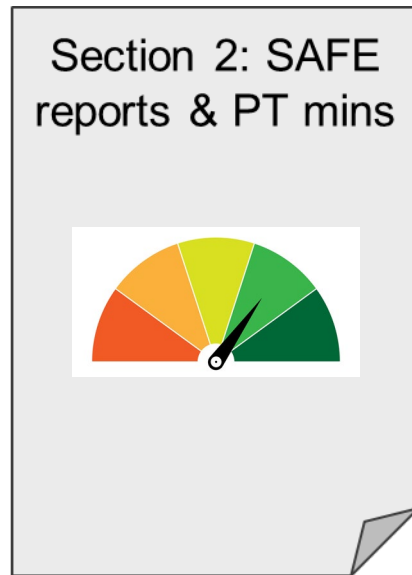
Management Measures						
Special Area Management	Quota Programs	Seasonal Allocations in Regulation	Gear/Vessel/Retention Restrictions	TAC Adjustments/Exchanges	Data Integration	Industry-led Measures

Types of actions	Protects critical habitat (e.g., skate nurseries, coral areas)	IFQ/CDQ/A-80, AFA, P-cod LAPP groundfish allocations	Most seasons are SSL protection measures, some are halibut avoidance	Small boat fisheries in State waters (e.g., <58 ft state GHL)	TAC and allocations specified in regs (e.g., AI pollock, state-water cod)	SeaState and other industry led coordination	Cooperative bycatch monitoring and notification
	Bycatch control/protectio	Halibut CDQ		Trawl gear modifications (i.e., elevated sweeps)	Reallocation rules	eLandings eFish	

- **CC adaptation attributes (strengths)**
- **CC maladaptive attributes (weaknesses)**
- **Opportunities for improvement**

Completed/remaining: Section 2 SAFE review

- ~~Fill in Ranking Table~~
- *Include assessment of current climate change readiness or information*
 - *Review 18 search terms for ESRs, crab, and groundfish SAFE documents*
 - ~~2021 (4,000+ pages)~~
 - ~~ESR~~
 - **SAFE**
 - ~~Intro~~
 - **Pollock**
 - ~~Sablefish~~
 - ~~P. cod~~
 - ~~Forage~~
 - ~~YFS~~
 - **SAFE crab**
 - ~~Intro~~
 - ~~RKC~~
 - ~~Snow crab~~
 - **GPT mins**
 - ~~Oct GPT~~
 - ~~Dec GPT~~
 - **Sept CPT**
 - **May CPT**
- **Synthesize results**
 - ~~2021~~
 - **2020**
 - **2019**
- **Include near-term / low hanging fruit actions, modifications to advance climate readiness**



Progress to date by section

Section 3: Knowledge & Information



Completed/remaining: Section 3 Information sources

- Fill in Ranking Table (see example below)
- **Include assessment of current climate change readiness or information**
 - x IKTK
 - Mostly done, needs trimming
 - ___ Industry
 - Needs more
 - ___ Agency (e.g. monitoring surveys/research, etc.)
 - Partially done, needs more
 - ___ Other (NGO, university, etc.)
 - Needs to be created
- ___ Include near-term / low hanging fruit actions, modifications to advance climate readiness.



CCTF TIMELINE

