

# **D3: FEP Climate Change Module**

***January Council 2020***

# Climate Change Taskforce (CCTF) members:

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Scott Goodman

Kirstin Holsman **co-Chair**

Steve Martell

Joe Krieger

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Aleut Community of Saint Paul Island

Natural Resources Consultants/Bering Sea Fisheries Research Foundation

AFSC-Seattle

SeaState

NMFS-Regional Office

Sandhill.Culture.Craft

Ocean Conservancy

AFSC Marine Mammal Lab

NPFMC



# Original agenda

2 ½ day in-person meeting planned in Seattle  
Emphasis on background information on current climate  
initiatives

Breakout groups

Time allotted to draft specific progression plan moving  
forward



# Kickoff CCTF Meeting January 21<sup>st</sup>

## Abbreviated webex

- 9:10 - 9:20 : Introductions
  - Brief (1 min) statements by taskforce members on background/affiliation, interest in taskforce, and associated initiatives
- 9:20 - 9:30 : Overview of the FEP and origin of task forces [D. Evans]
- 9:30 - 9:45 : Overview of LK/TK module [S. Wise]
- 9:45 - 10:00 : Meeting details, survey results, climate change impacts and adaptation overview [K. Holsman] [presentation \(pdf version\)](#) [presentation \(ppt version\)](#)
- 10:00 - 10:20 : Overview of climate change module goals and objectives [K. Holsman & D. Stram]
- 10:20 - 10:35 : TK and LK, co-production of knowledge and Western AK Indigenous communities climate change impacts, adaptation, and research [Brenden Raymond Yakoubian]

10:45- 11:00 : AM break

11:00 - 12:00 : Module objectives & goals

- *i) evaluate management tools to develop incremental (normative) adaptation measures to preserve livelihoods, health and wellbeing across fisheries and dependent coast communities*
- *ii) enable transformative adaptation needed to ensure the productivity and sustain of the coupled social-ecological Bering Sea system*

12:00 - 13:00 : Lunch

13:00 - 14:30 : Module outcomes and products

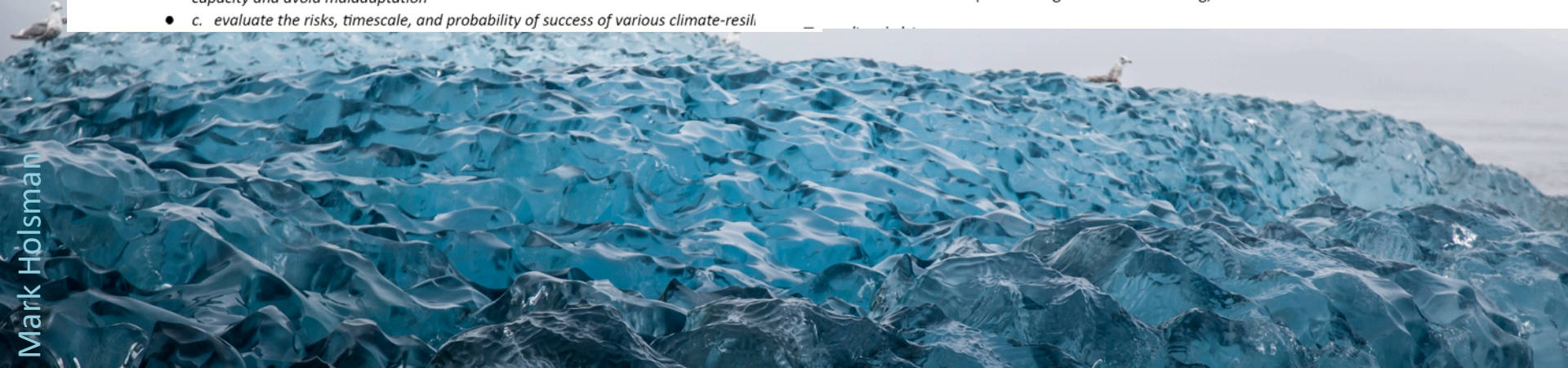
- *a. synthesize current knowledge regarding climate change effects on the EBS system*
- *b. identify potential climate-resilient management measures that can improve capacity and avoid maladaptation*
- *c. evaluate the risks, timescale, and probability of success of various climate-resilient management measures*

14:55 - 15:45 : CCTF Planning and logistics

- Planning for next in-person and teleconference meetings
- Milestones & deliverables
- Elements and timing of work required to meet [Taskforce objectives](#)
- Development of a work plan
- Outreach and communication
- Coordination with LKTK module


15:45 - 16:30 :

- Feedback that we want from the Council:
  - Best method of communication of results to SSC, Ecosystem Committee, AP and Council
- Next steps following the Council meeting, review docs etc



# Module goal (page 1 workplan):

“ facilitate equitable climate change adaptation pathways, transparent communication, and broad engagement to support short- and long-term resilience for the coupled social-ecological system of the Bering Sea ”

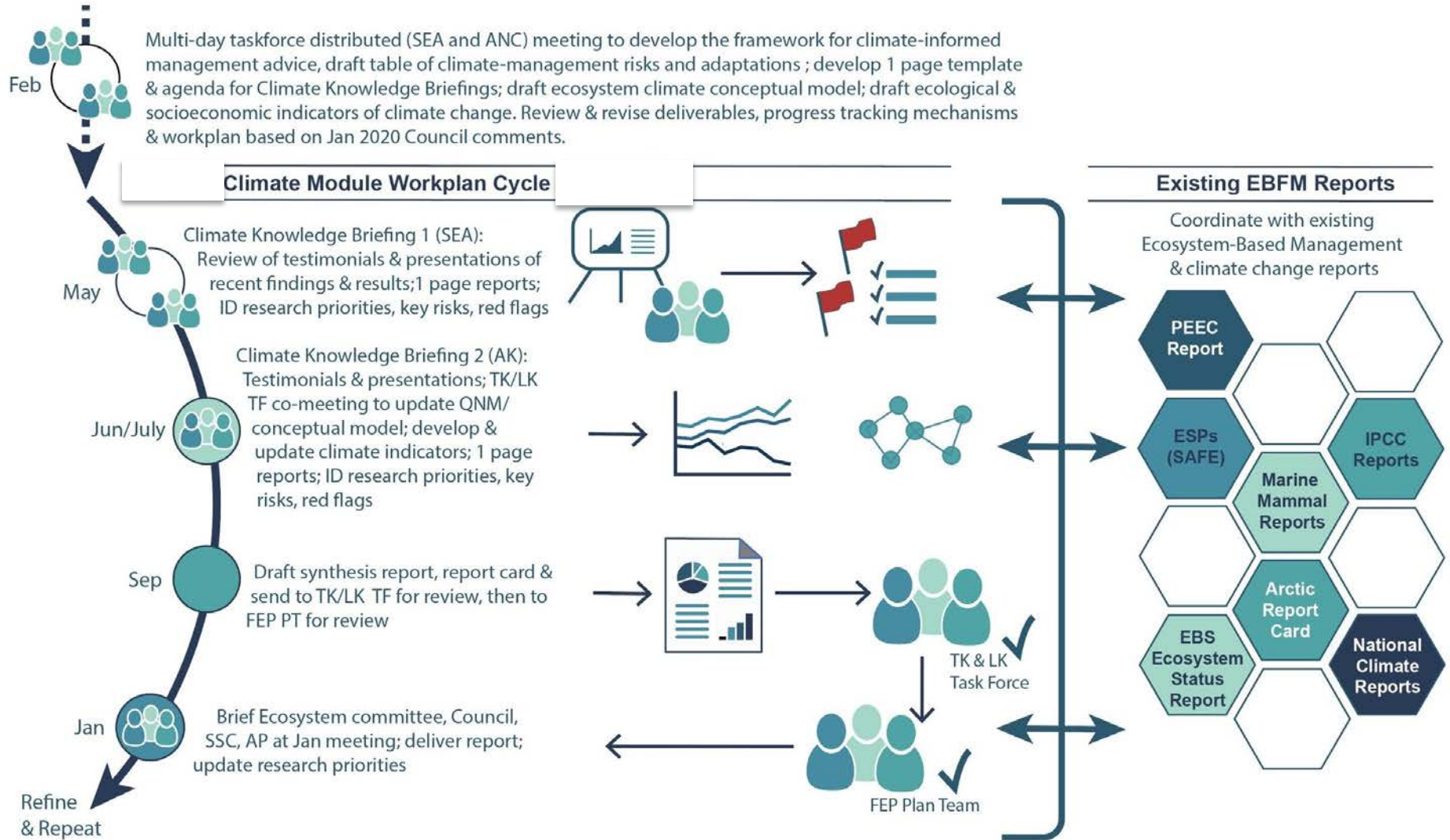
- i) evaluate **management tools to develop incremental (normative) adaptation measures** to preserve livelihoods, economies, health and wellbeing across fisheries and dependent coastal communities,
  - ii) enable **transformative adaptation** needed to ensure the productivity and sustainability of the coupled social-ecological Bering Sea system, and
  - iii) encourage transparent, effective, and dynamic **communication and engagement** of communities, fishers, managers and other stakeholders and the Council.
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# Development of framework for climate-resilient management

- 1) systematic **review** of new and emergent climate change information, both immediate and long-term in scope (most long-term information is currently not included in ESRs and other reports),
- 2) **synthesis and evaluation** of key issues, emergent trends, and potential red flags relevant to the Council,
- 3) **coordination** and iterative review with the LK TK Subsistence taskforce and FEP Team **to support the plurality of perspectives needed for evaluation of risk and tradeoffs,**
- 4) **recommendations** of climate-resilient management actions to enable adaptation to climate-driven change



# First year proposed workplan



# First meeting to develop the framework and strategize the synthesis phase



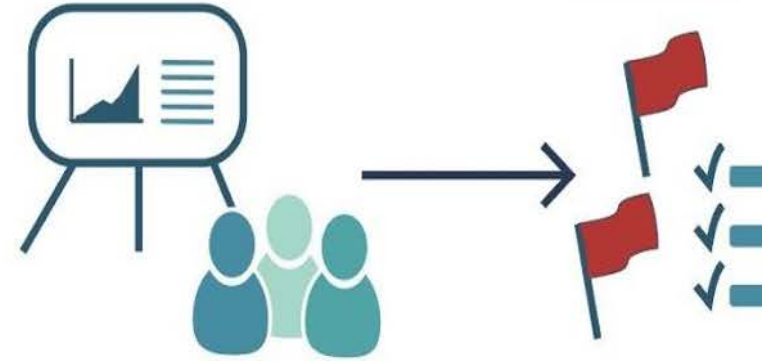
Multi-day taskforce distributed (SEA and ANC) meeting to develop the framework for climate-informed management advice, draft table of climate-management risks and adaptations ; develop 1 page template & agenda for Climate Knowledge Briefings; draft ecosystem climate conceptual model; draft ecological & socioeconomic indicators of climate change. Review & revise deliverables, progress tracking mechanisms & workplan based on Jan 2020 Council comments.

Climate Module Workshop Cycle



## Climate Module Workplan Cycle

May  
Climate Knowledge Briefing 1 (SEA):  
Review of testimonials & presentations of recent findings & results; 1 page reports; ID research priorities, key risks, red flags



Jun/July  
Climate Knowledge Briefing 2 (AK):  
Testimonials & presentations; TK/LK TF co-meeting to update QNM/ conceptual model; develop & update climate indicators; 1 page reports; ID research priorities, key risks, red flags

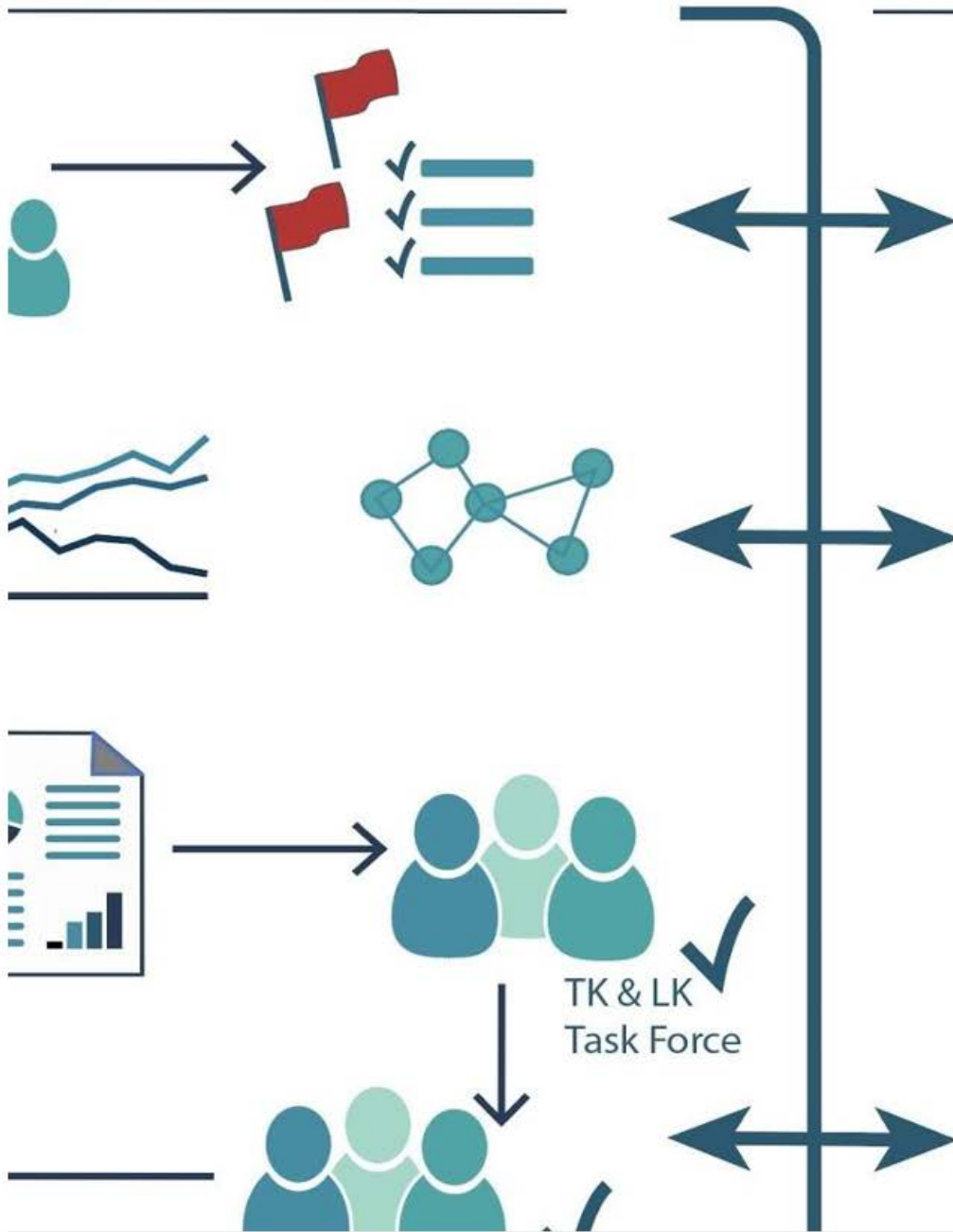


Sep  
Draft synthesis report, report card & send to TK/LK TF for review, then to FEP PT for review



## Existing EBFM Reports

Coordinate with existing Ecosystem-Based Management & climate change reports



# Deliverables and tracking progress

- A framework for exploring a range of management actions across a range of climate scenarios(e.g., periodic review of existing and alternative management strategies/policies).
- Synthesis report of climate change impacts and adaptive strategies of interest and within the purview of the Council; authored by the climate module taskforce, contributing authors, and collaborators.
- Communication and engagement plan (in collaboration with LK TK Subsistence Taskforce)
- Periodic update of recommendations of Council's climate-specific research priorities (with Council cycle)



# Milestones

- 1) **Feb 26-28, 2020 (tent)~3 day meeting ANC/SEA dual locations/web coordinated**
  - develop framework for exploring a range of management actions and list of short-medium and long-term projects and scenarios to explore;
  - draft table of climate-management risks and adaptations by species or focal components;
  - develop one-page template and tasking for climate knowledge briefing reports; agenda for proposed Climate Knowledge Briefing 1 meeting in May and draft engagement plan and Climate Knowledge Briefing 2 workshop with LK TK taskforce;
  - draft ecosystem climate conceptual model; draft ecological and socioeconomic indicators of climate change. Review and revise deliverables and progress tracking mechanisms. Revise workplan based on Jan 2020 Council comments.
- 2) **Report back to Council April in conjunction with FEP**
- 3) **Proposed Climate Briefing Workshops 1 and 2**