





## Adapting Fisheries Management to a Changing Ecosystem 7th National Scientific Coordination Subcommittee Meeting

August 15-17, 2022, Harrigan Centennial Hall, Sitka, Alaska

## **Keynote 4**

## Perspectives on ways complex ecosystem projections can be applied in real-world fisheries management cases

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## **ABSTRACT**

The applicability of multi-species trophic and technical interactions in multi-sector fleets pose special problems in providing real-world tactical and strategic advice for management. Special problems with the trophic side are evaluated as part of the ACLIM project and developments in CEATTLE. Focusing on the available data feeding tactical advice, we review the present issues related to the variability in fishery and survey distributions for a data-rich species in the Bering Sea. As part of this work, we revisit the potential future scenarios of trade-offs for the fleet considering fish size, CPUE, fuel costs, and bycatch avoidance. We present some simple statistics to show how spatial variability has changed and how assessments might better account for distribution shifts. We note how spatial patterns affect status quo management guidance and attempt to provide insight on how to better communicate stock trends and status relative to national standards.