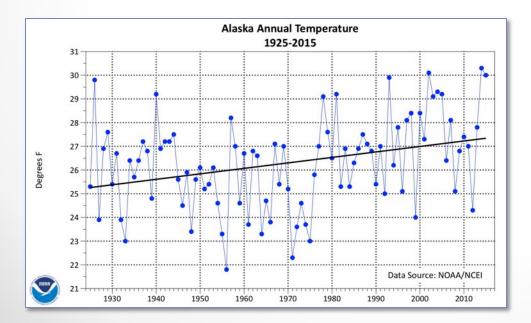
National Weather Service Alaska Region

- Alaska's weather, climate and related environmental changes are happening now and having profound effect on Alaska's people, land and sea.
- Changes in the seasonality and extent of sea ice is dramatically impacting the state
- Temperatures are rising twice as fast as the Lower 48
 - o Earlier snow melt and spring thaw
 - o Longer and more intense wildfire seasons
 - o Longer freeze-free season
- Thawing permafrost has a profound, long lasting effects on the human-built and natural environments



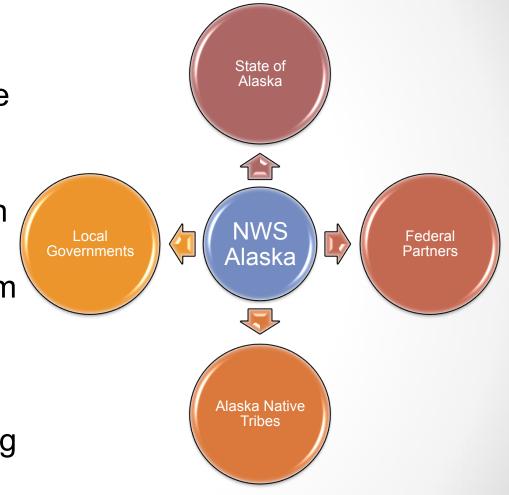
Photo 10: Shoreline erosion during coastal storm in Shismaref. (Credit: Tony Weyiouanna)





NOAA/NWS Alaska Region Impact-Based Decision Support Services

- Supporting governmental decision makers from the community and tribes to the Federal level
- The trusted source for weather, climate and ocean information
- Outlooks and forecasts from months ahead to weeks afterwards
- Partnering with academia and industry to move cutting edge science and technology into operations



WMO Polar Prediction Project (PPP) Year of Polar Prediction (YOPP)

Preparation Phase 2013 to mid-2017

Community engagement

Align with other planned activities

Develop implementation plan

Preparatory research

Summer school Workshops

Liaise with funders

YOPP mid-2017 to mid-2019

Intensive observing periods

Dedicated model experiments

Research into use & value of forecasts

Intensive verification effort

Summer school

Consolidation Phase mid-2019 to 2022

Data denial experiments

Model developments

Dedicated reanalyses

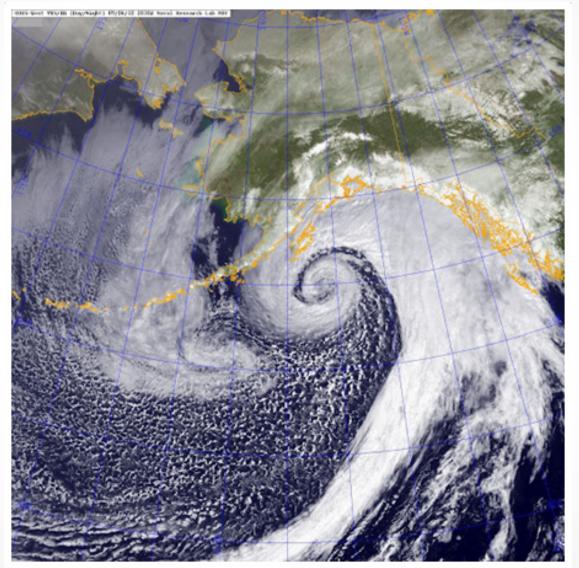
Operational implementation

YOPP publications

YOPP conference

http://www.polarprediction.net

Thank you!!!



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