SCIENCE INFORMING POLICY IN A CHANGING ARCTIC

Brendan P. Kelly Chief Scientist Monterey Bay Aquarium

Feb. 23, 1979

tekighan - pointed portion of ice Kangeeghen - bay """" Kangen - one end touching then leaving grenning ganeghrek - snow covering water hole lag - edge of ice ingelin - smooth wall of ice formed by other ice moving past sikughnak - icide ice ameen - ice formed between anchor ice and shore Kaspik - floes in shingles

umugak - very thick (4', 5', 6' or >)

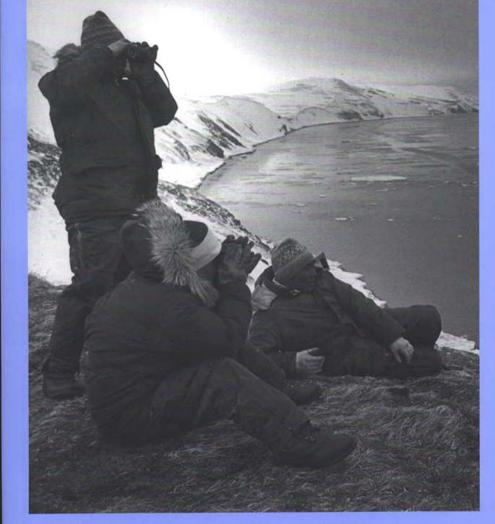
umugak - very thick (4', 5', 6') slaghlleg - shore fast suddenly taken away by wind twelleg - "" gradually "" "

nutemtaq - old ice

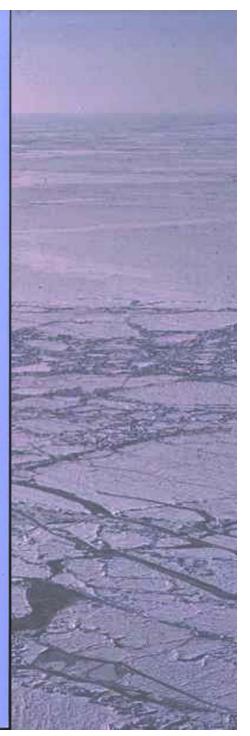
a llsughnag - weath ice made where ice crushes together ulltilleg - above type after spending out sikughag - small cable of ice sikukaghpak - larger cable

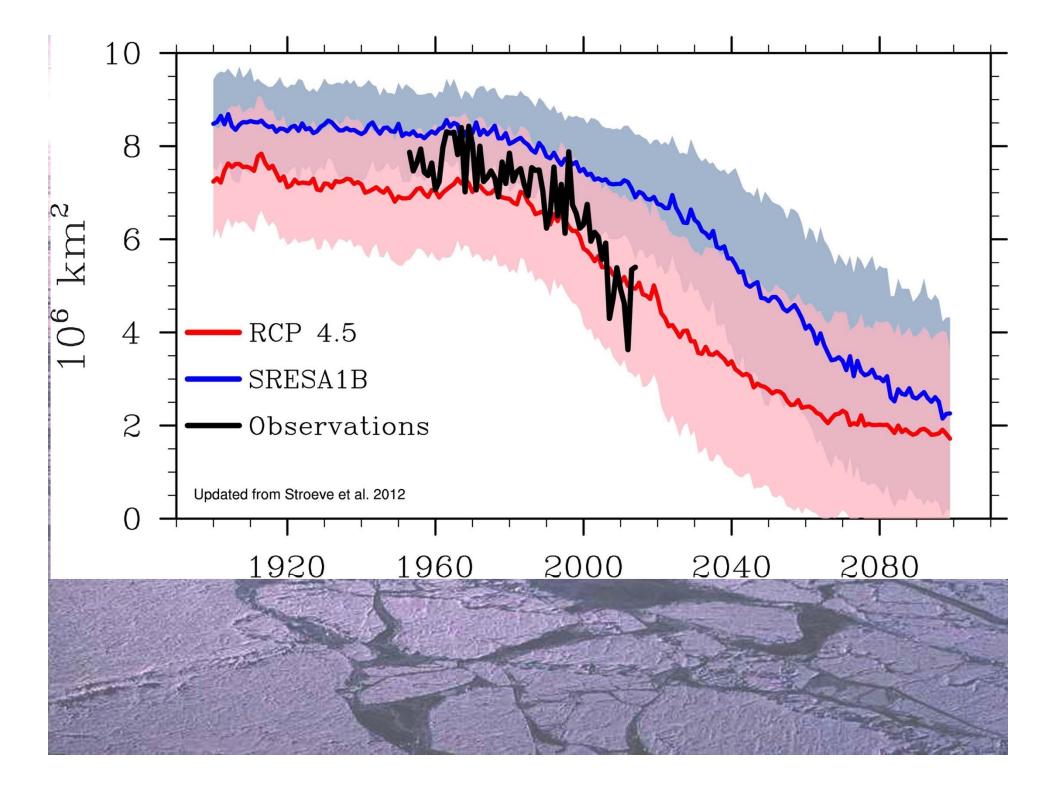






Edited by Igor Krupnik and Dyanna Jolly







Academic organization of Arctic science Federal organization of Arctic science Considerations for future directions



Academic organization of Arctic science

Welcome to SEARCH

A system-scale, cross-disciplinary, long-term arctic research program

What's New?

Input Requested to AON Position Paper

10 November 2014: SEARCH requests input on a draft position paper on issues related to the design and implementation of an integrated Arctic Observing Network (AON). The paper represents a synthesis of discussions within SEARCH over the last year and builds on past SEARCH-AON community events and workshops. Key issues addressed in the paper include governance, network integration, and sustained funding. The deadline for input is Friday, 21 November 2014. The draft position paper can be found here.

STUDY OF ENVIRONMENTAL ARCTIC CHANGE

New SEARCH Proposal Funded

The SEARCH SSC is excited to announce that a proposal to NSF to develop a new SEARCH structure and activities has been funded! As a first step in implementing activities under the new grant, which will be generally organized around the new SEARCH science goals, SEARCH held a small "kick off" meeting in September. More information about that meeting and a variety of background materials are available here. The SEARCH website will be re-structured in the coming weeks to reflect the new activities. The general outline of the new structure is available below as the "Summary of New SEARCH Framework & Plan."

SEARCH

SEARCH Vision SEARCH Goals SEARCH Structure Sea Ice Outlook Sea Ice for Walrus Outlook Observing/AON Meetings and Teleconferences SEARCH Science Understanding Arctic Change Resources

http://www.arcus.org/search-program

Academic organization of Arctic science

Seasonal to Decadal Predictions of

Arctic Sea Ice

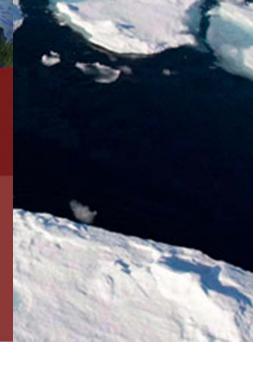
CHALLENGES AND STRATEGIES

NATIONAL RESEARCH COUNCIL

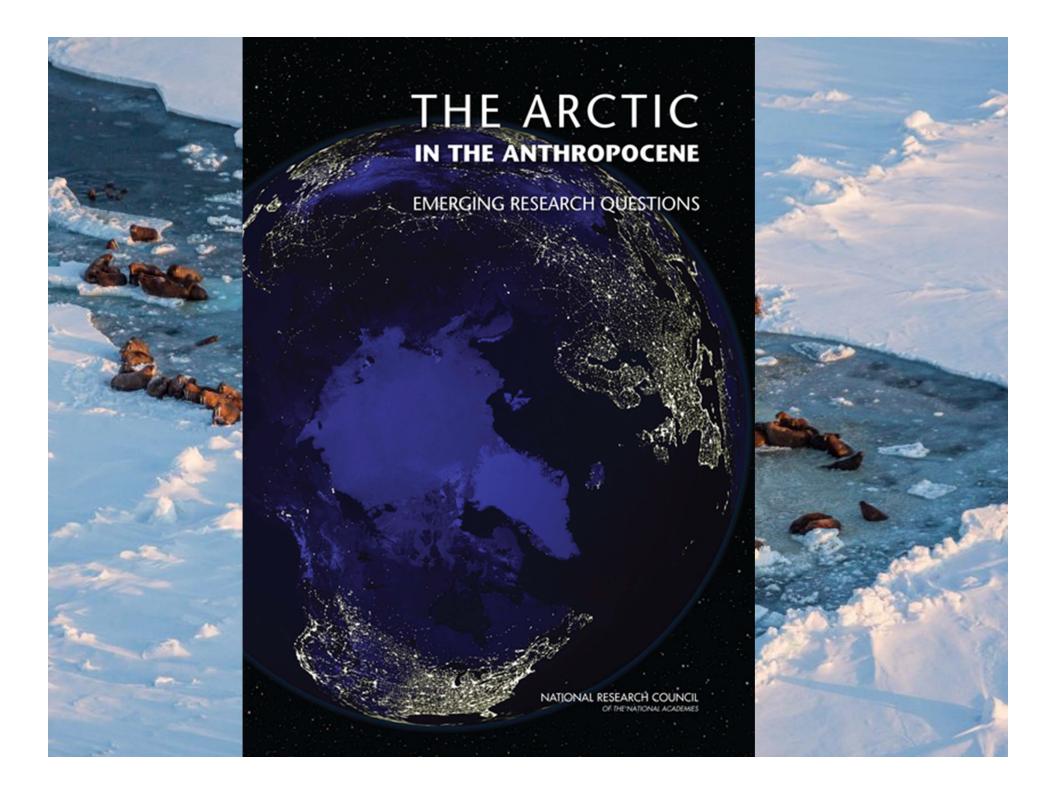
Linkages Between Arctic Warming and Mid-Latitude Weather Patterns

Summary of a Workshop

NATIONAL RESEARCH COUNCIL OF THE NATIONAL ACADEMIES



IARPC contributions ARCTIC RESEARCH PLAN: FY2013–2017 https://www.whitehouse.gov/sites/default/files/micros ites/ostp/2013 arctic research plan.pdf NATL STRATEGY FOR THE ARCTIC REGION https://www.whitehouse.gov/sites/default/files/doc at arctic strategy.pdf ARPC COLLABORATIONS http://www.iarpccollaborations.org/members/in (A) m?topics=your **EMERGING ARCTIC RESEARCH QUESTIONS** http://www.nap.edu/catalog/18726/the-arctic-in-theanthropocene-emerging-research-guestions



Evolving Arctic

Will Arctic communities have greater or lesser influence on their futures?

How much of the variability of the Arctic system is linked to ocean circulation?

Managed Arctic

How will decreasing populations in rural villages and increasing urbanization affect Arctic peoples and societies?

What benefits and risks are presented by geoengineering and other large-scale technological interventions to prevent or reduce climate change and associated impacts in the Arctic?



National Plan for Civil Earth Observations

Sustained observations:

- generally for seven+ years
- for public services or for Earth-system research.

Experimental observations:

- limited observing period, < seven years, or
- for research and development purposes

