



Arctic Observing Network (AON)

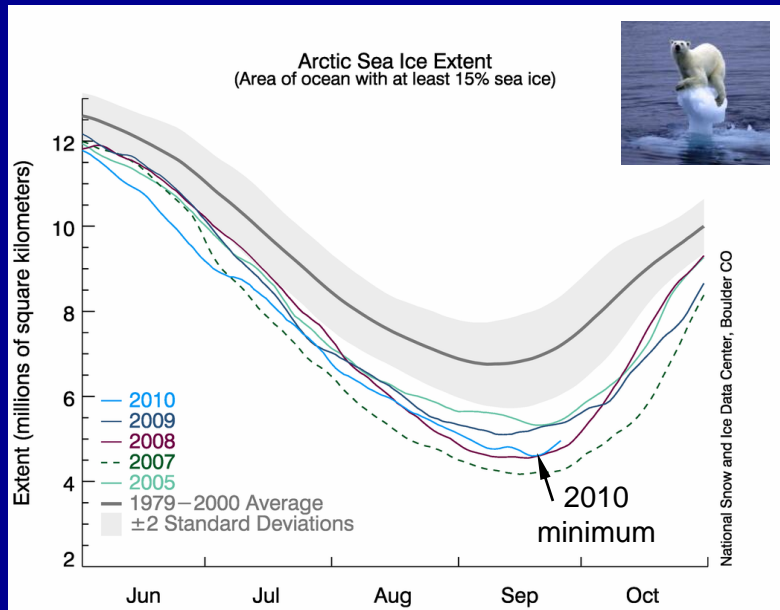
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Office of Polar Programs
Division of Arctic Sciences

*Autonomous Polar Observing
Systems Workshop*
30 September/1 October 2010
William F. Bolger Center
Potomac MD

Why an AON?

Arctic Environmental System Change, e.g., Sea Ice



Implications

- Feedbacks to Arctic system (e.g., marine & terrestrial ecosystems, hydrology & cryosphere)
- Global & regional climate
 - Indigenous people
 - Marine transportation
 - Natural resources
 - National security

Response

- Adapt • Mitigate
- Each requires *Understanding*
- Understanding needs *Observations*
 - Observations are for *Analysis, Synthesis & Modelling*



AON in Brief

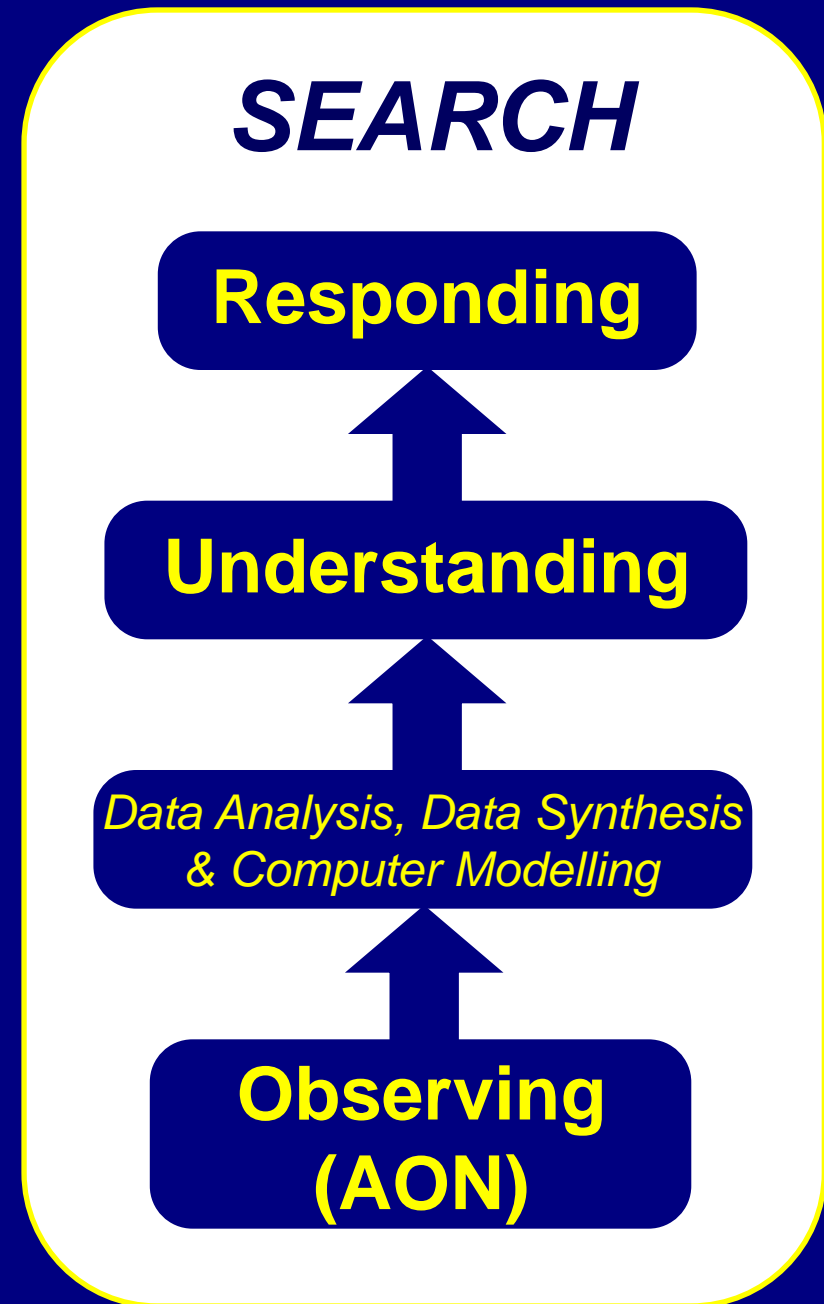
AON is a USG inter-agency program that is an integral part of *SEARCH* - Study of Environmental Arctic Change.

AON is a multi-disciplinary effort that encompasses physical, biological and human observations, including local/indigenous knowledge, of the land, ocean and atmosphere.

SEARCH categories

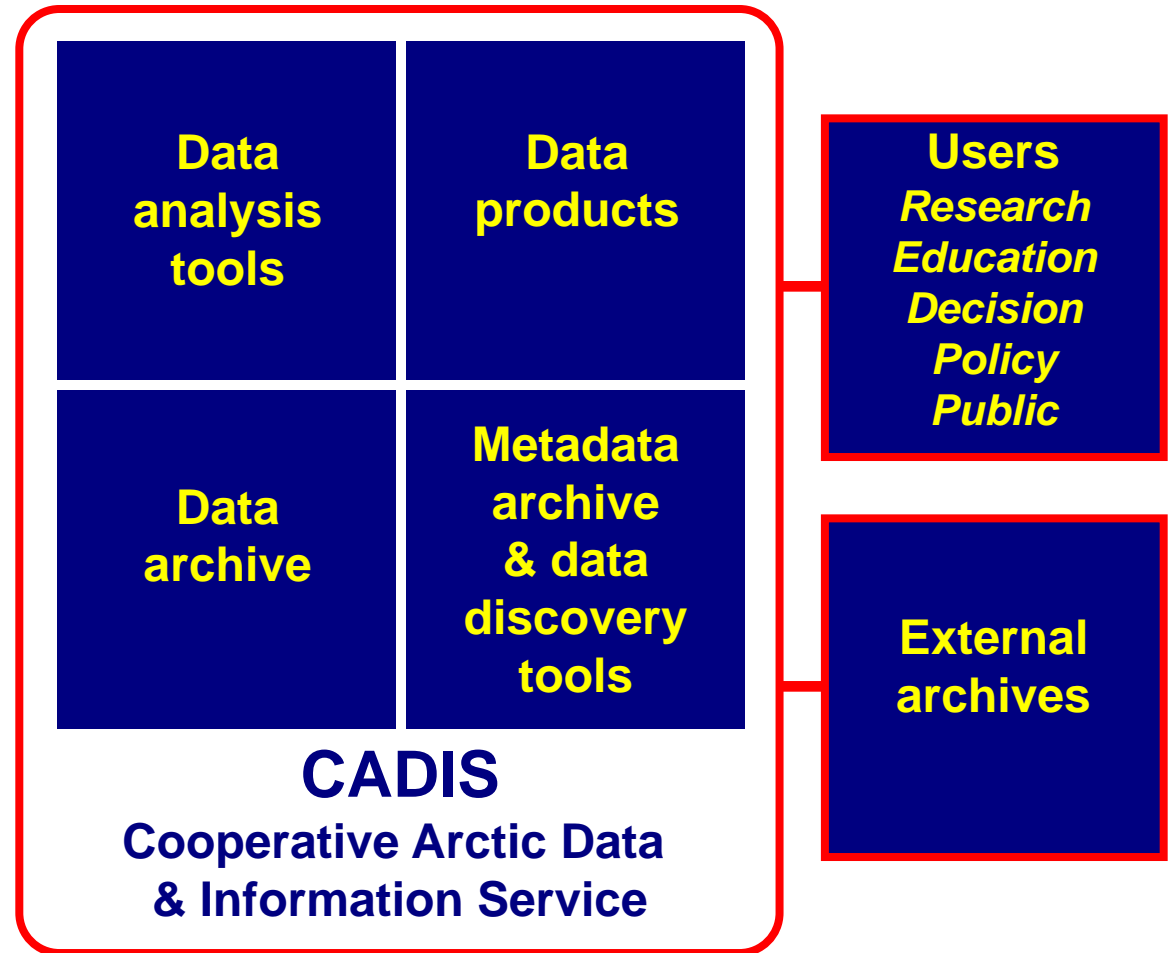
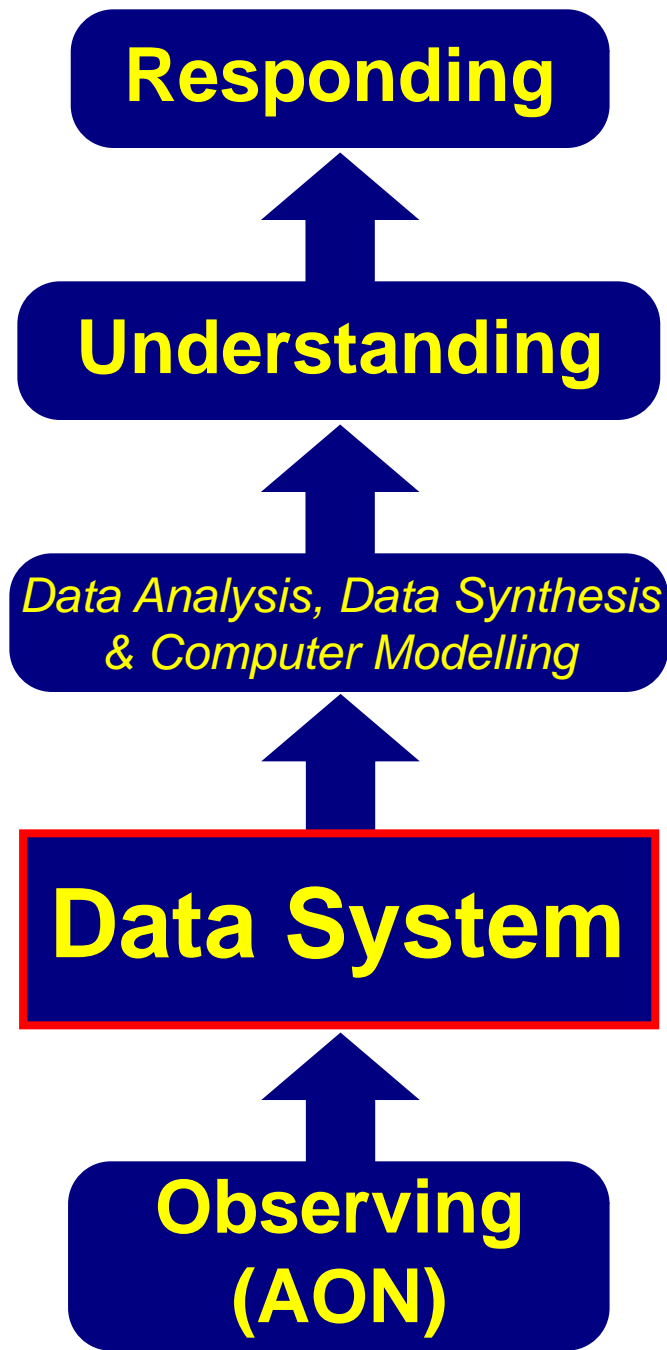
- *Atmosphere*
- *Ocean & Sea Ice*
- *Hydrology & Cryosphere*
- *Terrestrial Ecosystem*
- *Human Dimensions*
- *Palaeo-environment*

SEARCH Science Plan and Implementation Plan provide intellectual framework.





AON Data & Information Management



SEARCH Data Policy

Community 'property' with no embargo. Freely and openly available as soon as possible after acquisition and QA/QC.

Other AON Activities

- **Network building**
 - **Social network and observing network**
 - **Annual AON PI workshops**
 - **Arctic Observing Summit**
- **AON Design and Implementation (ADI) Task Force**
- **Understanding Change Task Force**
- **International Study of Arctic Change (ISAC)**
- **Sustained Arctic Observing Network (SAON)**

