

IASOA Transports 2-7-2018

Facilitator: Taneil

Attendees: Ola Persson, Taneil Uttal, Chris Cox, Jim Overland, Timo Vhima, Matt Shupe, Michael Tjernström, Barbara Casati

Role Call: No individual intros today

YOPP Preparation:

- Taneil met with YOPP Verification Task Team and discussed observational support activities. The Verification Team is IASOA's principle YOPP collaborator.
- Taneil provided an overview of Barbara's YOPP slides
- YOPP: Supersites / NWP output => target processes
 - (Ola) Some target processes (i.e., tendencies) may be out of reach for IASOA
 - Taneil: We will need to evaluate which values can be provided for each site
- The supersites are IASOA + Whitehorse and Iqaluit, which are likely to enter IASOA (contact: Zen Mariani).
- AODS" Amalgamated Observatory Data Files will be made for each site to archive YOPP supersite values
- Chris asks about time table
 - No real-time plans, so post-SOP research
- Taneil's message from IASOA to YOPP: "We Are Here"
- Jim would like to focus on some science questions beyond the data archiving efforts...segue...

Jim's "pitch":

- A focus on Arctic-mid latitude 2-directional linkages
 - There is much complexity in the jet stream, which serves as the linkage "bridge"
 - It may be more instructive to focus on event-scale links rather than seasonal
 - Events are rare (couple per decade) so long averages obscure signal
 - Case Studies!
 - Winter 2016 is an example
 - Chukchi/Bering late freeze-up is spatially situated to interact with the jet
 - 2017
 - Warmth in Alaska in autumn and another late freezeup
 - May be linked to east coast USA cold snap at the same time
 - AK warmth -> larger geopotential thickness -> west coast USA ridge -> east coast USA trough
 - Some discussing about chicken and egg

- Jim frames the local Chukchi/Bering ice anomalies as re-enforcing mechanisms that require the right long wave pattern, but can then serve to promote persistence of that pattern.
- Taneil: How do we interpret these events through the perspective of the IASOA observations? E.g., Barrow 2016
- Timo: Mostly model and reanalysis perspectives thus far so observational perspectives needed. Two parts:
 - YOPP Verification
 - Ola adds + reanalysis verification
 - Barbara adds + observational uncertainty analyses
 - Case Studies, such as Jim describes
- Taneil: Lets identify a case study to focus on
 - Ola wishes to define case study
 - Jim indicates multi-week to monthly
 - Seasonal too long, synoptic too short
 - Begin with the long wave pattern and focus on events within that pattern

Action Items: