

Summary: Considerations for YOPP-SH winter Special Observing Period, including 2019 versus 2020.

Overarching aspects:

General enthusiasm for such a SOP that features the meteorologically active early (or late) to core winter period.

If field measurements are to be included then 2020 is much preferable to 2019 because of the lead time needed for planning, logistics, and acquiring funding.

A key issue is whether enough additional observations will be available to make a meaningful forecast impact. One strategy would be to emphasize the Ross Sea region.

Emphasizing physical oceanography this SOP – there is a compelling scientific case to focus on the fall freeze-up period, mid-April to mid-July.

Ocean Observations:

Very few ships around, mainly in the Antarctic Peninsula region.

Argo floats collecting ocean profiles, and some under ice floats. **What about SOCCOM floats?**

Drifting buoys: Need to find out 2019 versus 2020. Germany can deploy buoys in early 2019.

Saildrone circumnavigating Antarctica in 2019. Could regional efforts be done in 2020?

Radiosondes

France may be able to contribute in 2020. Dumont D'Urville?

Additional radiosondes from the Korean Jang Bogo station in Terra Nova Bay, perhaps in 2020.

What about from Dome Concordia?

Might be possible to launch some additional radiosondes from Davis.

Data Denial Experiments

NSF AMPS funding only covers the summer SOP so new funding would have to be secured to look at this period.

France cannot participate in 2020 because a new computer is scheduled for installation then. Can do 2019.

Japan may be able to participate but depends on funding of compelling science questions.

Other aspects

Most likely period is mid-April to mid-July 2020, just after the YOPP-NH SOP3. Comes in the Consolidation Phase.

Early results could be presented at the SCAR meeting in Hobart in August 2020.

NSF funding chances for data denial work would be enhanced if SOP overlapped with Winfly that happens in mid to late August.

Germany can only contribute in a very modest way because of the MOSAiC campaign in the Arctic that runs from ~Sept 2019 to ~ Sept 2020.