

Notes of YOPP-SH online sessions, 15 July 2020.

1300 UTC session:

Attendees: Stefanie Arndt, Eric Bazile, David Bromwich, Jorge Carrasco, Steve Colwell, Clare Eayrs, Sergi Gonzalez, Adriana Gulisano, Vicki Heinrich, Jun Inoue, SiriJodha Khalsa, Matthew Lazzara, François Massonnet, Jordan Powers, Marie-Laure Roussel, Marcello Vichi, Kirstin Werner

2100 UTC session.

Attendees: David Bromwich, Irina Gorodetskaya, Daniela Liggett, Matthew Mazloff, Jeff Wilson.

Apologies: Phil Reid, Inga Smith, Lynne Talley.

Chair: David Bromwich

Notes: Kirstin Werner (session 1), Jeff Wilson (session 2).

1. Letter for YOPP-SH Stakeholders and for WMO to Permanent Representatives concerning the Targeted Observing Periods (TOPs) in April-July 2022.

The letter that will be officially sent by Thomas Jung (PPP Steering Group chair) and David Bromwich (YOPP-SH lead) to request support for the Antarctic winter TOPs has been sent around to the YOPP-SH group on 14 July. In the meantime, Gunilla Svensson as the leader of the YOPPSiteMIP effort had sent some more edits which David is going to include and then send a final version to Kirstin. There haven't been many further edits requested by the attendees of the sessions, so David and Kirstin will go ahead and finalize (completed 7/16/20).

Action item Kirstin: share the final version of the stakeholder letter with the YOPP-SH group for distribution to interested parties.

2. List of stakeholder contacts.

Action item to everybody: Please send your list of contacts to Kirstin by **Monday, 20 July**, so we can prepare the letters.

There is no problem if this letter has been sent to national weather centers already. WMO will prepare a letter based on this one to the WMO Permanent Representatives but this might take a bit longer.

Action item for Kirstin from session 2: Can Kirstin circulate the stakeholder list that was developed on googledocs some time ago? The list can then be updated. Another starting point would be the mail list for the last SH-SOP. This list would be the Met Services and the leads on polar activities in countries involved in and around the Antarctic. Aiming for a core list of countries that are involved in Antarctic work. The WMO will also write to all Members

in the near future. (Comment KW 10/07/2020: I have looked at the former stakeholder list and added the contacts from there to the new list. We will still need contact points from Brazil, Germany, New Zealand, Spain, United Kingdom (BAS, etc.) Please send those to me by Monday, 20 July.)

Session 2 input: Irina Gorodetskaya had in mind Portugal, Spain and Chile who are very interested in the Antarctic Peninsula and undertake joint activities. She wanted to clarify if it was countries with permanent stations or countries with activities in the Antarctic - both. Irina will send some details to Kirstin regarding the contact people for Portugal, Chile and Spain (done). They also collaborate with Brazil and South Korea for air transport.

3. Updates on YOPP-SH winter TOP contributions. Committee to Schedule TOPs.

Adriana Gulisano has provided input yesterday to the contributions spreadsheet about the Argentinian Marambio Base. Eric Bazile mentions that it will be 3 RS/day to support the Antarctic TOPs, instead of the usual 1 RS/day. Stefanie Arndt mentions that at the moment it is rather unclear whether the planned expedition to the Eastern Weddell Sea will take place on board Polarstern in 20-21 or needs to be postponed to the following season, 21-22. If the latter is the case, there will be buoys deployed just in time for the winter TOPs. Will be decided in fall. In any case, the German Neumayer station will be launching (extra?) radiosondes during the Antarctic winter TOP, and also deploy buoys in the vicinity of the station.

Kirstin has entered that information into the contributions spreadsheet.

Action item for everybody: please have a look at the spreadsheet and update as soon as information is available.

Input from session 2: – Please check out and update the spreadsheet and let David/Kirstin know of any additions/changes. Irina will add contributions from her side (done). Also Ukrainian group have a Microwave Radar MRR (precipitation radar) and are interested in participating, they just want to know the requirements. David confirmed that they can still join. Matthew Lazzara and Irina are discussing whether they can host an archive of the MRR data at the US Antarctic data archive. Another option is BAS that Irina is investigating further. With MRR data it has to be calibrated and edited to be usable. The open data access question still arises with some countries but it is easier for specific periods such as YOPP TOP or YOPP SOP. BAS will continue to archive radiosondes for the SH-TOP. David noted that the three month period will be known as the SOP whilst specific periods within it will be the TOPs. Thus, we will have some data sets that span the full three months. Metadata will be posted on the YOPP Data Portal by the data holder.

4. TOP Project Outline. Completed?

There needs to be a group of people who look more into the details to organize the TOPs. Irina Gorodetskaya is on that team, and also Sergi Gonzalez would like to join. David will think a bit more on how to structure it. We need to watch the forecasts and then make a decision whether to launch a TOP or not. Jordan Powers will check with folks from the Naval

Information Warfare Center (NIWC) Atlantic whether they could be on that (usually they need orders from NSF in order to do, otherwise service not for free).

Steve Colwell asks whether something could be added to AMPS. Jordan says it might be possible if we knew the locations of the radiosondes and then create an algorithm that watches the weather changes to make a decision and then sends an alert.

Session 2 input: Irina has contacted Gunilla to get some feedback on how the NH-TOP processes worked but she has not heard from Gunilla yet. Irina and a small group did something like this over the past austral summer between a few groups including MeteoFrance. Irina would like to do some mock trials based on past events as a training exercise.

Action item for everybody: Indicate your interest in joining that group by sending an email to David. David will organize an extra meeting with those people. Sergi is interested.

5. APECS YOPP-SH Webinar, August 11, 2020, 15-17 UTC.

On 11 August, 3 pm UTC there will be the YOPP-SH session at the APECS Southern Hemisphere webinar. Quite a lot of people from this session are going to present, we have 8 speakers and it will be an interesting session to follow. The same day at 10.30 am UTC, there will be a live session of The IcePod with Kirstin and Sara interviewing Vicki Heinrich about her YOPP-endorsed project dealing with the social science aspects of Southern Hemisphere weather forecasts.

Session 2: The group thanked Clare for all the work in preparing the program and details for this webinar.

6. Status of Antarctic Fields Programs for 20-21 and 21-22 Austral Summers.

The situation doesn't look good for many of the nation's field programs. For the US (Matthew Lazzara), no official news but it seems to be maintenance only, more or less. Also for BAS (Steve Colwell) there won't be new instrumentation at Rothera, just a minimum of observations and people with being in quarantine before. Hopefully there could be some aircraft flights to visit other sites. Inga Smith (New Zealand) had sent a note that they will continue to run the long-term programs and continue to re-develop Scott Base. Steffi Arndt mentions (see also above) that AWI is not clear at the moment about the expedition to the Weddell Sea. In any case, the fast-ice program close to the Neumayer station will continue and also the deployment of buoys in the surroundings.

David summarizes that the coming Antarctic summer will probably be a minimum season so we have to see what happens in the coming season (21-22). We have to consider that YOPP runs until end of 2022. There might be some extension of YOPP for particular activities but the ICO won't be able to provide support after December 2022.

7. YOPPSiteMIP.

Taneil Uttal asked David whether there could be someone nominated from the YOPP-SH group to join the YOPPSiteMIP effort and the MODF makers group. Matthew Lazzara mentions that there may be someone but not right now, only in several months. Siri Jodha mentions that the metadata of the data that is available should be on the YOPP Data Portal.

Action item to everybody: Please make sure your data is linked to the YOPP Data Portal at <https://yopp.met.no/>

The discussion shows that it seems to be difficult for the YOPP-SH group to have data moved into one format. Also, David mentions it's the question whether it's worth it from the point of view of the usage likely to be made of the data sets for model verification and diagnosis.

Eric Bazile's chat comment (agreed by Matthew Lazzara and Kirstin Werner):

I think that it is really important to have the same format for the YOPPSiteMIP for both NH and SH it is already the case for the model side. As a first step, it is more important to have basic observations from many stations instead of one station with many observed variables.

8. WAMC-YOPP-SH Meeting #6 at the Byrd Center, June 2021.

Considering the current situation in the US, it is not sure whether this will be an in-person meeting. For sure, there will be online participation.

PPP-SERA input from Daniela Liggett, session 2. Many people on summer break. Re the WAMC-related meetings in June 2021 where SERA may also meet, it is being assumed that they will be face-to-face meetings with some online presence. If not possible to do face-to-face, they will move to online. There will be a meeting on Monday regarding a proposal for a seafarers course on using sea-ice and weather forecast data (relevance?).

9. Polar Prediction School, Abisko, Sweden, February-March 2022.

The Polar Prediction School is planned for late February/early March in Sweden at the Abisko station. Online options will be considered if it is not possible to travel at that time.

Action item to everybody: Think about how YOPP-SH can contribute (lectures, lecturers etc.)

David has an early postdoc (Jerry Zou) who is working on the data denial project for AMPS and is interested to be a lecturer. David will send information to Clare (done 7/15/20).

10. Any Other Business.

The copyright forms for the **BAMS paper** are all completed, we are waiting now for the next move by the editorial office.

David participated in a **SORP telecon** the other day. There is program called AniBOS. It is about instrumented elephant seals to measure ocean data (temperature and salinity) around Antarctica where Argos floats do not collect data. They are thinking now how to get these data regularly onto the GTS, perhaps targeting the 2022 winter TOP period.

Session 2: Matthew Mazloff spoke about the AniBOS program (elephant seals are tagged to collect temperature and salinity) and whether it may be possible to get some of the data on the GTS for the SH-TOP. The elephant seals operate in an area that is very data sparse at the present time.

Action Item Vicki: send David information about someone from Tasmania who is involved.

Matthew Lazzara and Irina Gorodetskaya are in discussion about the **Microwave rain radar (MRR) data archive**. See item 3 for more details.

Francois Massonnet mentions that the next call for contributions to the **SIPN South** effort will be out in November. Also, prior to the Antarctic winter TOPs, there will be the usual evaluation of the performance of coupled forecasts for the Antarctic summer minimum sea ice conditions.

Jun Inoue: As for **Syowa** during TOPs, radiosonde releases could be increased. But Syowa has already two launches per day during every winter, I do not know how JMA can manage this.

Jorge Carrasco (Chile): operational activities are at a minimum for this coming summer. Union Glacier activities cancelled. Hopefully, for the 2021/22 season everything will come alive as usual. Many of **science programs in Chile** are going to be suspended for this coming season.

Next online session: September 2020. Date is one of 8-11 or 14-18. Doodle poll can be found at <https://doodle.com/poll/96w8ta55dnaemncs>

Session 1 closed at 1415 UTC.

Session 2 closed at 2200 UTC.