



MOSAiC Status Update Nr. 8/2019

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1. Information for Participants of Leg 1a/Fedorov

During the way into the ice and the set up phase, Polarstern will be accompanied by the Russian Icebreaker RV Fedorov. Due to that, we have the possibility to bring extra personnel for setting up instruments on board as well as on the ice and to realize a the MOSAIC summer school.

Some of these extra people will also travel some part of the journey on board Polarstern, in order to assist with setting up installations on board or on the central observatory.

The two vessels will travel together into the ice and search for a suitable floe, then RV Fedorov will take care of the set-up of the distributed network. Around the 16th of October Fedorov will come close to Polarstern again for a last exchange of personnel and refuelling and go back to Tromsø.

*All participants, that will only be part of this first part and will go back with RV Fedorov at the end of October – you are now all referred to as participants of the **Fedorov MOSAIC Expedition** (even though some of you might actually stay some days on board of Polarstern). Please contact your group or team leader to get detailed information about which vessel you will be on for which part of the way.*

In case you will be on Polarstern, you will receive an invitation from EIS, if you will be on Fedorov only, you will receive further instructions from your group/team leader about how to register (as unfortunately the EIS system works for Polarstern only).

Participants of Fedorov have to pass the standard AWI medical check for marine expeditions to the Arctic and Antarctic (NOT the special, extensive MOSAIC medical check) and have to send in a specific Fedorov clothing list (see appendix). The same deadlines and procedures as announced for MOSAIC in general apply.

For questions please contact Verena via schiffskoord@awi.de

2. Visa for Norway

Apart the exchange between Leg 3 and 4, all cruise legs of MOSAIC are planned to start and end Tromsø. Standard procedure is, that all passengers are officially leaving the country when leaving the port, and are officially re-entering when arriving after the time in the ice. Therefore, a standard tourist VISA is sufficient. Some participants however might be in need of another VISA and need an invitation to Norway. If this is the case, please contact Anja Sommerfeld (anja.sommerfeld@awi.de), she will organize that you get an invitation.



3. Freight – correct labelling → directly on Polarstern vs. repacking in Tromsø

The delivery for freight delivery to the AWI warehouse is next week. To make sure, that your freight will be packed correctly, please label them accordingly. You find the MOSAIC freight labels on [M365/MOSAIC All/Groups/Logistics](#).

- Label BHV – PS122/1 BHV: for freight that can be loaded directly on Polarstern, in containers that will be ready packed for MOSAIC. They will not be accessible in Tromsø.
- Label Tromsø – PS122/1 Tromsø: for freight that needs to be repacked, resorted or accessed in Tromsø. Instruments that should be set up in the labs before departure should be sent this way.
- Label Tromsø – PS122/1 Tromsø direct: for freight directly sent to Tromsø, not via AWI warehouse.

If you intent to send freight for RV Fedorov, please exchange the vessel name on the Label.

If any of your items need to be stored in a specific way (warm storage, freezer, etc.) please label them accordingly! For questions, please contact schiffskoord@awi.de

4. Coordination of work visits Polarstern in BHV, before departure in Tromsø and the repacking period

Work visits to Polarstern are possible in general from the 4th of July until the 4th of August, although it is always possible that access will be denied due to a change of the work schedule of the shipyard.

Work concerning the vessel comes first. If you do need to work on board, please fill the [list concerning work visits](#) until the 14th of June 2019. If you do need assistance from the shipyard or crew, please state and specify. We will come back to you after the planning meetings in June.

On [M365/MOSAIC All/Groups/Logistics](#) you also find a list for work visits before departure in Tromsø as well as the repacking period. If you will be taking part in the repacking or need to get access to Polarstern before departure, please fill these lists until the 16th of August 2019.

5. Power and network connections for MOSAIC on the ice

→ On the ice

Powerhubs in the Central Observatory area will be located at the ROV hut, Ocean City, Met City Hut and the Remote Sensing Site hut. They will be equipped with CEE sockets following IEC 60309 / DIN EN 60309 (caravan sockets). Either 3 pins (L+N+PE, 6h) for 220 V, 16(32) A, or 5 pins (3L+N+PE,6h) for 380V, (32). As stated before, all cables need to be flexible and movable to down to -40°C. The data connections will be via 'IP67 V6 Plugs'. The cables need to be flexible and certified for temperatures down to -40°C.

The company that is bulding the powerhubs for us can also supply the correct cables. You find their offer as well as specification of the plug on [M365/MOSAIC All/tasks/IceCamp/Power and data lines](#)

→ On board

For information about the type of power connections on board Polarstern please check Status Update Nr.4. All projects have to bring appropriate cables to connect their instruments or special containers to power, network, water or air on board. A drawing of the location of the outlets on



board Polarstern can be found on [M365/MOSAiC All/tasks/Polarstern](#). Please use this, as well as the 3D Model to estimate the cable length you need.

6. Best practice advice

Among all the participants, we have a great mix of people with many different levels of arctic experience. Under [M365/MOSAiC All/Information for participants](#) you find a 'best practise' document. This document should become a collection of best practise advice for all sorts of things that might come in handy for the time in the ice. If you have any good advice, add it to the appropriate section or create a new section.

7. Pee Policy on the ice floe

In order to keep the ice floe and sampling area as clean as possible, we will need to follow a toilet policy on the ice. In general, the easiest is always to conduct your business on board.

There will be two toilet tents within Central Observatory Area, which have to be emptied every evening.

Everybody working further away has to bring the toilet waste back to the ship; therefore all participants must provide appropriate pee bottles or systems to be able to do this. As we also have to try to minimize waste, please try to opt for reusable solution rather than single use solutions.

In the [best practise collection](#), you also find a thread regarding outdoor peeing solutions. If you have any experience regarding this topic, please state it there!

8. Polar bear protection & rifle courses

The dates for the AWI Polar bear protection & shooting trainings have now been set. There are also still some free spots for the course in September. To register for the course please write an email to Elena Tschertkowa-Paulenz (Elena.Tschertkowa-Paulenz@awi.de), stating course date, name, institute, invoice address and which cruise leg you will be on.

As these courses include shooting at night, we prioritize participants of Leg 1,2 and 3. There will be more courses in 2020 for the participants of the later legs.

22.08.19	05.09.19	24.10.19	07.11.19
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9. Deadlines

Please keep the following deadlines in mind for PS122/1. You will find this also on M365 under [MOSAiC All/Informations for participants](#) and shortly on the AWI website. *The deadlines for all following cruise legs will be published shortly.*



deadline	for	to/via
08.05.19	Freightpapers for freight via AWI	EIS
29.05.19	delivery of individual freight	AWI Warehouse
03.06.19	clothing list PS122/1	Martina.Kniemeyer-Schulze@awi.de
14.06.19	list for workvisits Polarstern Summer 2019	M365
15.07.19	latest date for fitting of clothes PS122/1	AWI clothing store
18.07.19	Delivery of Dangerous Goods via AWI	AWI Warehouse (or to building E (18.7.) & D (19.7.) for AWI participants)
29.07.19	delivery of containers via AWI	AWI Warehouse
08.08.19	latest date for medical check and sending medical questionnaire & examination results PS122/1	AWI medical officer
15.08.19	freight papers for direct freight to Tromsø	EIS
16.08.19		
02.09.19	delivery of direct freight to Tromsø	Tromsø

10. Upcoming events

Event	Date	Time	Location

Appendix:

- Clothing list Fedorov