
Rules for working with the AWI Sylt Outdoor Mesocosms (AWISOM) at the Wadden Sea Station Sylt

Status: November 29, 2024

This document is intended to ensure excellent science through professional use of the Mesocosm Facility (MFA). This is intended to guarantee data quality and security, as well as good scientific practice.

Instruction

The following rules apply to all persons working as guest researchers at the MFA and in the guest research laboratories:

- The instruction documents of the Wadden Sea Station must be read and signed. The regulations and rules of conduct also apply to the outdoor areas of the station including the MFA.
- **All** persons (PIs, senior scientists, postdocs and student assistants, etc.) must familiarize themselves with the functionality of the MFA **prior to** the start of experiments **on site**.
- The MFA can only be used after instruction by the technical staff of the Wadden Sea Station.

Working at the AWI

- The MFA and guest research laboratories are available to guest researchers during the experiment.
- Infrastructure beyond the MFA and guest research laboratories is not available.
- The use of climate-controlled rooms and storage facilities for samples (freezers, refrigerators) must be requested in advance.
- Guest researchers must bring and take away consumables (gloves, chemicals, pipettes, cable ties, etc.) and measuring equipment themselves.

Occupational safety and order

- Safety clothing and sturdy shoes must be worn at the MFA and in the laboratories.
- Eating and drinking in the laboratories is not allowed.
- Workplaces in the guest research laboratory and in all communal facilities (sample cleaning rooms, temperature constant rooms, etc.) must be kept in a tidy condition.

Animal welfare

- Animal welfare must be ensured throughout the entire experiment campaign.
- For decapods and fish, an animal testing permit **must** be obtained from the appropriate ministry or government office before the start of the mesocosm campaign.

Care of the mesocosms

- The permanent care of the mesocosms and the continuous monitoring of important accompanying parameters is ensured by the responsible AWI technician.
- The lead scientist of the participating guest research group or his/her officially designated representative must be present on site throughout the measurement activities of his/her group.

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Introduction to the MFA and laboratories was carried out on/by:

Date/Signature of guest researcher

Date/Signature of responsible AWI scientist

Registration for use of the AWI Sylt Outdoor Mesocosms (AWISOM) for visiting scientists at the Wadden Sea Station Sylt

Status: November 29, 2024

Name of responsible AWI scientist

Name of senior scientist, research institution

Name of deputy lead scientist(s), research institution

For planned experiments please use the table (please also create an organizational plan according to the example of the iSeal Mesocosm Campaign 2023, see annex at the end).

	Example
number of tanks required	12
type of experiments planned	<i>Impact of heat waves on mussels and oysters</i>
type of organisms	<i>mussels, oysters</i>
number of organisms	<i>200 mussels, 30 oysters</i>
planned measurements	<i>Monthly measurement of respiration rates and filtration rates in 50 mussels and 20 oysters</i>
required measuring instruments/AWI infrastructure	<i>water baths, filtration system, oxygen meter</i>
type of sample storage	<i>refrigerator, freezer</i>

! It must be ensured that no alien organisms, chemicals, etc. are introduced into the national park by the MKA!

Does the responsible AWI scientist have approval for animal testing (fish and decapods)?

Yes

No

All members of the guest research group are insured through employment contracts?

Yes

No

Does the responsible AWI scientist have permission from the national park to use organisms (plants and animals) that were not taken directly from the site in the MKA?

Yes

No

Date/Signature of Lead Scientist

Date/Signature of responsible AWI scientist

Time and work plan using the **example** of the iSeal Mesocosm Campaign 2023

calendar week	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
construction, commissioning	x															
runtime experiments			x	x	x	x	x	x	x	x	x	x	x	x	x	
cleaning, dismantling																x
Analyses	number of samples															
PN - Fish (FTZ)																
Rate Measurements - Fish (FTZ)																
Rate Measurements Benthos (GEO)																
rate measurement of invasive species (SaM)																
Sediment sampling, species inventory (GEO)																
nutrient analyses (AWI)																
plankton analyses (AWI)																
chlorophyll analyses (AWI)																
alkalinity analyses (AWI)																
accompanying parameters (AWI)		continuous recording														