

# Alkor 576 - Mesocosm Recovery Bergen, Norway

16.07.2022 – 24.07.2022  
Kiel - Bergen, Norway - Kiel  
KOSMOS-Bergen-2022



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2022

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## 1 Cruise Summary

### 1.1 Summary in English

The purpose of the journey AL576 is the recovery of ten Kiel offshore mesocosms and their mooring in the Raunefjord near Espeland Marine Biological Station Norway, that have been deployed on AL572 (03.05.2022 – 10.05.2022).

### 1.2 Zusammenfassung

Das Ziel der Forschungsreise AL576 war die Bergung der 10 Kieler Offshore Mesokosmen und deren Verankerung, welche auf der Forschungsreise AL572 (03.05.2022 – 10.05.2022) im Raunefjord, Norwegen ausgebracht wurden.

## 2 Participants

### 2.1 Principal Investigators

Name	Institution
Riebesell, Ulf, Prof.	GEOMAR

### 2.2 Scientific Party

Name	Discipline	Institution
Henneke, Jan	TLZ / Chief Scientist	GEOMAR
Fliessner, Hannes	TLZ	GEOMAR
Meyerhöfer, Michael	Scientist	GEOMAR
Karnatz, Josephine	Scientist	GEOMAR

### 2.3 Participating Institutions

GEOMAR    Helmholtz-Zentrum für Ozeanforschung Kiel

### 2.4 Crew

Name	Rank
Petrikowski, Marc	Kapitän / Master
Silva Moreira, Jonas	1st. Officer
Anger, Johann	Chief Engineer
Stöck, Torsten	E-Engineer

Delachaux Dit Gay, Lucien	Boatswain
Ledwig, Christian	A.B.
Ziebarth, Arne	A.B.
Schenk, Dirk	A.B.
Brüdigam, Benjamin	A.B.
Kirschnick, Thomas	Cook

### 3 Research Program

#### 3.1 Aims of the Cruise

The purpose of the journey AL576 was just from technical side. It was the recovery of ten Kiel offshore mesocosms and their mooring in the Raunefjord near Espeland Marine Biological Station Norway, that have been deployed on AL572 (03.05.2022 – 10.05.2022).

#### 3.2 Agenda of the Cruise

16th July

08:00 - leave Kiel, Transit to Bergen

18th July

10:30 Arrival in Bergen harbour

12:00 Jan Hennke, Hannes Fliessner, Michael Meyerhöfer leaving Alkor (shuttle provided by Carsten Spisla) going to the Espeland Marine Biological Station to do preparations for mesocosm recovery (We stay overnight in the Espeland Marine Biological Station and come back onboard with Wassermann on the next day)

19th July

9:00: - Alkor leaving Bergen to go to mesocosm recovery area

10:30: - Jan Hennke, Hannes Fliessner, Michael Meyerhöfer will come onboard (shuttled by workboat Wassermann in Raunefjord)

10:45 – Recovery of 2 Yellow marker buoys

12:00 - Recovery of 3 mesocosm bags from the first row with the help of the workboat Wassermann

14:00 – Recovery of 3 mesocosms and mooring weights

17:00 – Arrival Bergen harbour,

17:30 cutting mesocosm bags in small pieces and put them in the Alkor Garbage containers

20th July

08:00 stacking stainless steel mesocosm rings into mesocosms and put them ashore with Alkor crane

9:30 - Alkor leaving Bergen to go to mesocosm recovery area

11:00 - Recovery of 4 mesocosm bags with the help of workboat Wassermann

14:00 – Recovery of 4 mesocosms and mooring weights

16:00 – Arrival Bergen harbor

16:30 – cutting mesocosm bags in small pieces and put them in the Alkor garbage containers;

21th July

8:00 - stacking rings into mesocosms and put the next 4 mesocosms ashore with Alkor crane

9:00 - Alkor leaving Bergen to go to mesocosm recovery area  
10:30 - Recovery of 3 mesocosm bags from the third row with help of workboat Wassermann  
14:00 – Recovery of 3 mesocosms  
15:00 – Recovery of 2 yellow marker buoys  
16:30 – Arrival Bergen harbor  
17:00 – cutting mesocosm bags in small pieces and put them in the Alkor garbage containers

22th July

8:00 - stacking rings into mesocosms any moving them in transit position with Alkor crane  
9:30 – loading of 7 mesocosm from shore onboard Alkor with Alkor crane  
11:00 - Lashing  
12:15 – Alkor leave Bergen; transit to Kiel

24th July

15:30 – Arrival Kiel east shore

### **3.2 Description of the Work Area**

Raunefjorden, Bergen; 60.265° N, 5.205° E

The worksite was located near Marine Biological Station Espeyrend, where all laboratories for the mesocosm experiment (13.05.2022 – 07.07.2022) were located

## **4 Narrative of the Cruise**

The cruise went smooth as planned. Due to the good weather and the good cooperation of all parties involved, the time schedule could be kept and there were no incidents.

## **9 Acknowledgements**

We would like to thank all the parties involved, especially the captain and the entire crew for their motivation and quality work.

## **10 References**

## **11 Abbreviations**

## **12 Appendices**

### **12.1 Selected Pictures of Samples**

### **12.2 Selected Pictures of Shipboard Operations**

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