



Bundesministerium
für Bildung
und Forschung



DYNAMO
BEAGLE CHANNEL
OBSERVATORY



Collaboration between AWI and Chile

DynAMo (BMBF)

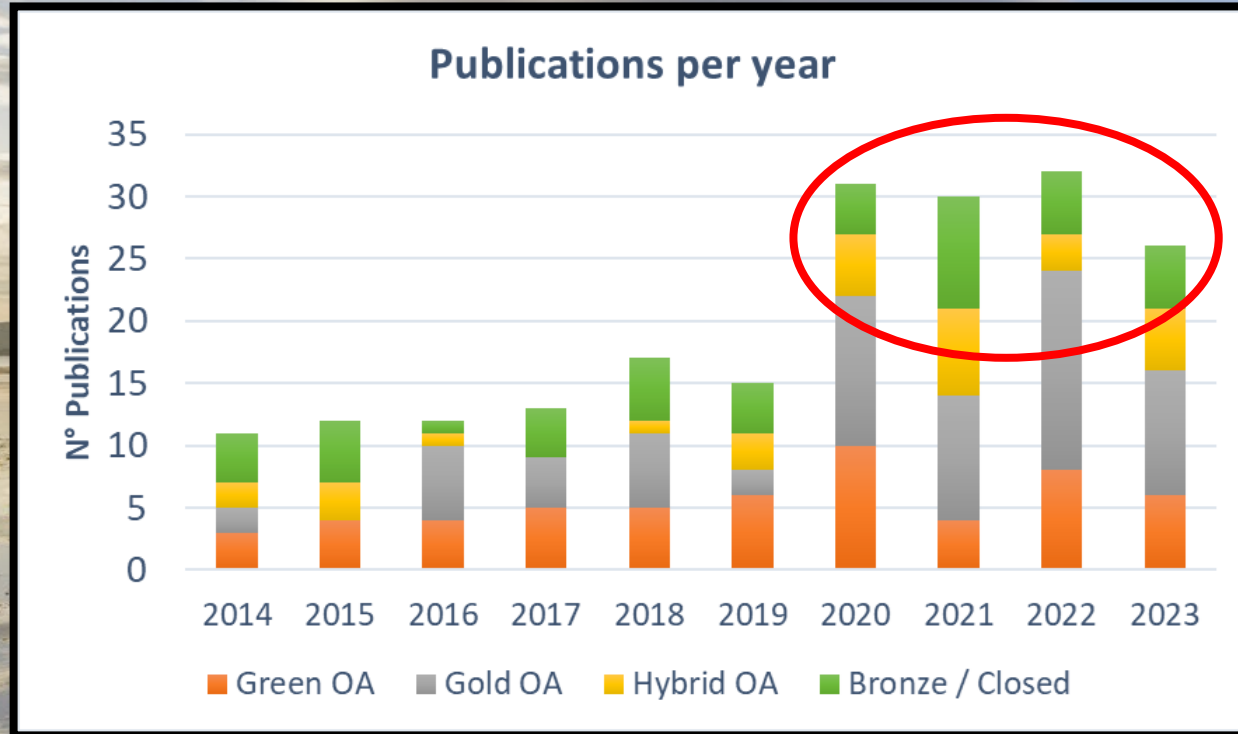
CoastCarb (EU)

FjordFlux (RV Meteor)



Bremerhaven 17.04.2024

Past cooperations (last 10 years)








Year	Publications
2023	26
2022	32
2021	30
2020	31
2019	15
2018	17
2017	13
2016	12
2015	12
2014	11

Present collaborations

**Current
Memoranda of
Understanding
(MoU):**

in preparation:

INSTITUTIONS	DATE
 	<p>29.06.2018</p>
	<p>09.01.2023</p>
	<p>2024</p>
	<p>2024</p>



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ALFRED-WEGENER-INSTITUT
HELMHOLTZ-ZENTRUM FÜR POLAR-
UND MEERESFORSCHUNG

2017-2024 DYNAMO LAT16STRUC039



International
Cooperation



Aim:

**Dynamic impact of ice mass loss in the Andes on terrestrial,
limnic and marine ecosystems**

WP1

Terrestrial measurements (Glaciology)

- Weather station installation (CHI-GER)
- Aerial infrared camera measurements of glaciers in the Darwin Cordillera (GER)

WP2

Marine environmental monitoring

- Oceanographic Buoy Ushuaia – Real time (ARG-GER)
- FerryBox – real time (Pta Arenas – Pto Williams) (CHI-GER)
- Long-term oceanographic mooring Yendegaia (CHI-GER)

WP3

Assessment of marine biodiversity


- eDNA sampling methods (GER-CHI-ARG)
- Molecular monitoring methods (GER-ARG)
- Phycotoxin monitoring (GER-CHI-ARG)



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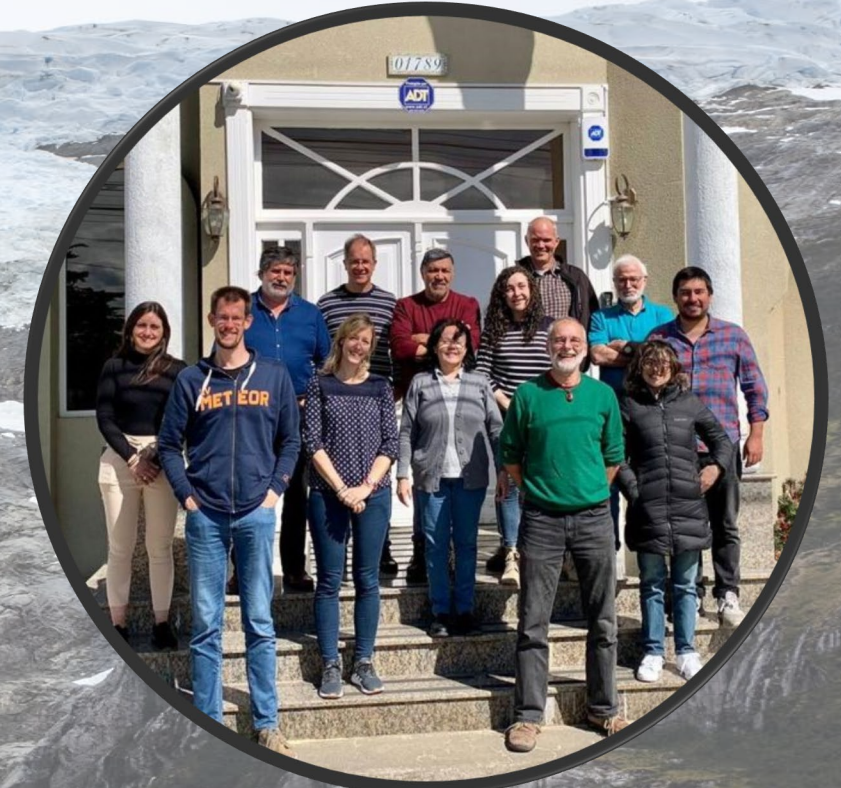


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 **AWI** ALFRED-WEGENER-INSTITUT
HELMHOLTZ-ZENTRUM FÜR POLAR-
UND MEERESFORSCHUNG

Meetings & workshops:

- Kick-off dynamo
(Ushuaia, April 2018)
- Plankton intercalibration workshop and Ferrybox installation
(Pta. Arenas, March 2022)
- FjordFlux workshop post-cruise meeting
(Pta. Arenas, October 2022)
- Dynamo assembly
(Pta. Arenas, October 2022)




Dynamo Assembly
(Pta. Arenas, Oct. 2022)



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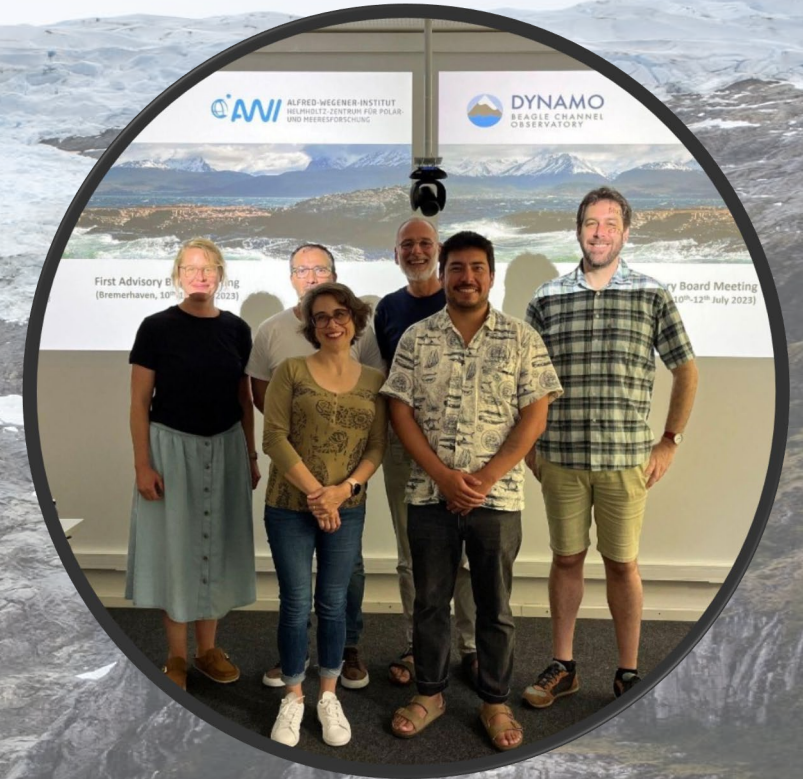


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 **ALFRED-WEGENER-INSTITUT**
HELMHOLTZ-ZENTRUM FÜR POLAR-
UND MEERESFORSCHUNG

Implementation of the Advisory Board:

Germany	Dr. Bernd Krock Dr. Silke Laakmann
Argentina	Dr. Alejandro Vitale Dr. Irene Schloss
Chile	Dr. Nicole Trefault Dr. Ricardo Giesecke
USA	Dr. Josh Kohut (Guest Scientist)
Norway	Dr. Sebastian Moreau (External Consultant)



Advisory Board meeting
(Bremerhaven, Jul 2023)

Expeditions



FjordFlux:

Dynamic effects of glacial melting and human impact on fjordic ecosystems of the beagle channel and the Chilean fjord system of southern Patagonia

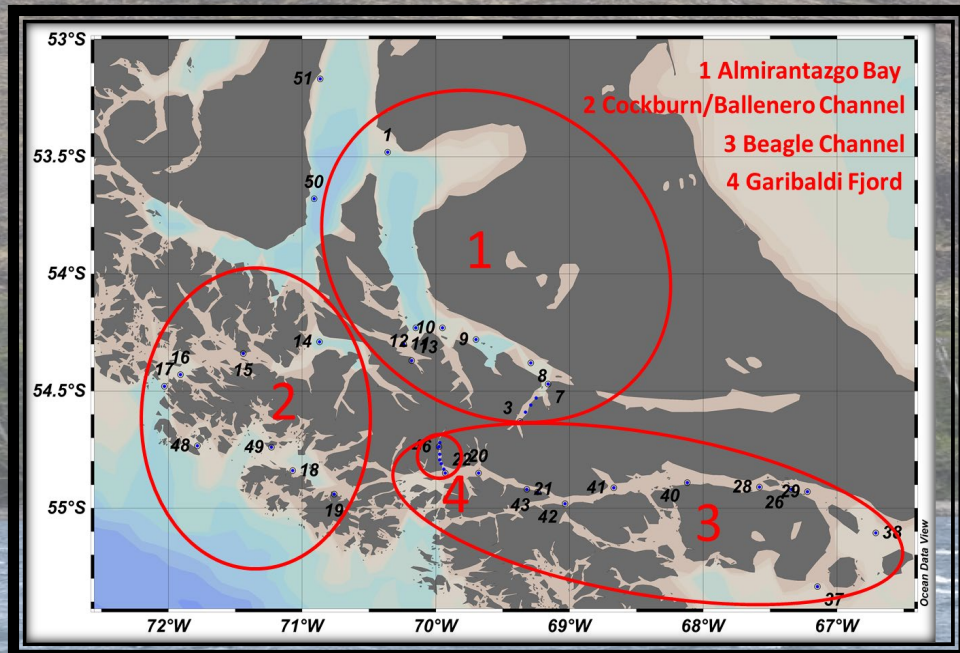
Participating Institutions:

Germany

AWI (Bremerhaven)
ICBM (Wilhelmshaven)

Chile

UMAYOR (Santiago)
UdeC/COPAS Coastal (Concepción)
UACH/IDEAL (Valdivia)
CIEP/IDEAL (Coyhaique)
IFOP (Pta. Arenas)



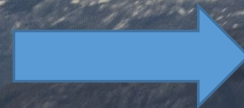
Objectives for the year 2024

Activities:

19thAug: Business meeting SCAR conference, Pucón 2024 - Chile.

26thAug: AB meeting in Valdivia - Chile.

27th Aug – 03rdSep: SubCOB workshop for graduate students (theoretical-practical course with excursion).



Future Perspectives

LaWiZuCh Project: Long-term collaboration network (Project duration 5 years- BMBF)

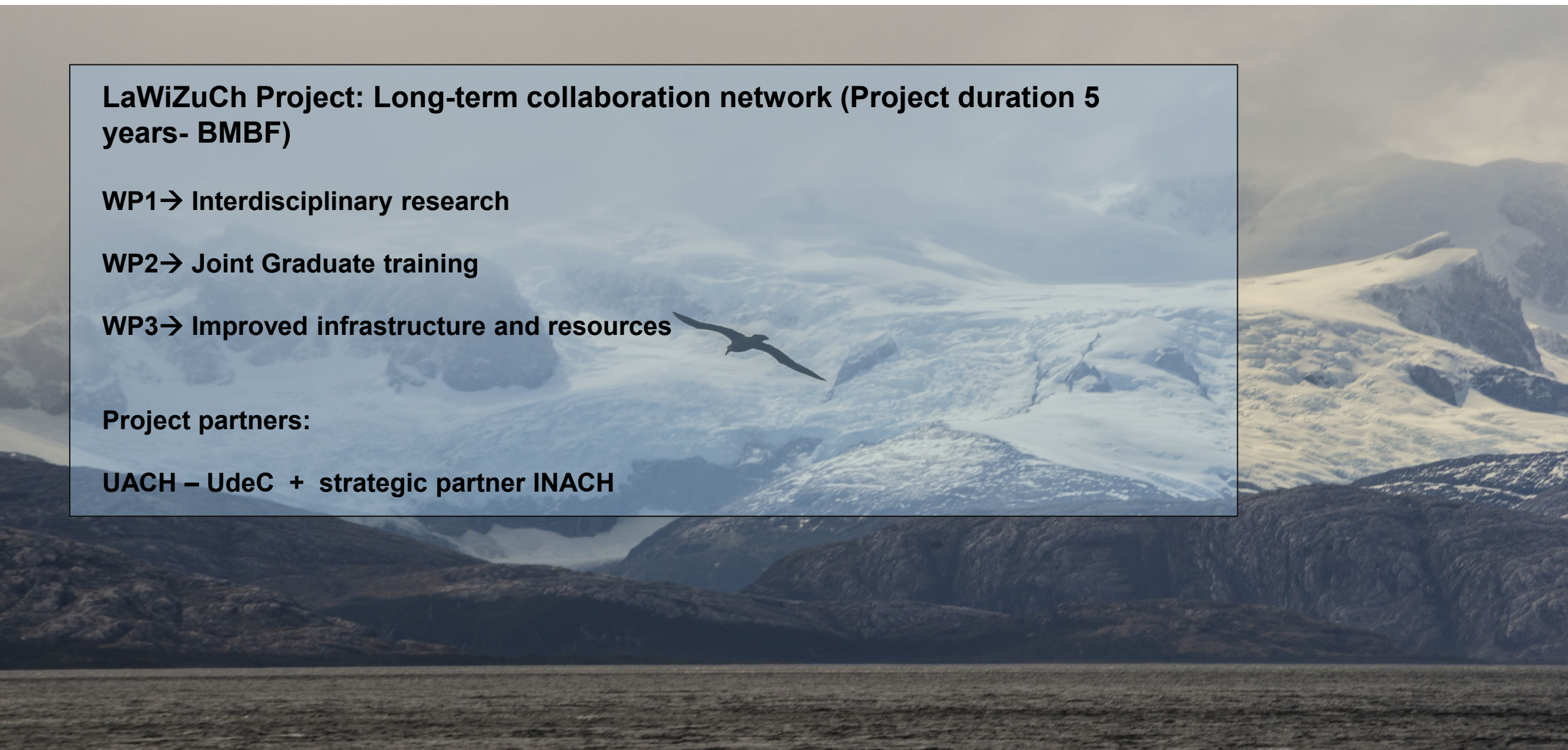
WP1→ Interdisciplinary research

WP2→ Joint Graduate training

WP3→ Improved infrastructure and resources

Project partners:

UACH – UdeC + strategic partner INACH



Future Perspectives



Approved Expedition „CHL-A-HAB“ (Red Tides)

RV Meteor

Duration: 30 days
Transect: Punta Arenas-
 Talcahuano
Time: presumably
 Austral Summer
 2025/2026

	Name	Affiliation
1	Wollschläger, Jochen	ICBM
2	Krock, Bernd	AWI
3	Tillmann, Urban	AWI
4	Müller, Annegret	AWI
5	Max, Thomas	AWI
6	Tebben, Jan	AWI
7	N.N.	AWI
8	Henkel, Rohan	ICBM
9	Voß, Daniela	ICBM
10	Giebel, Helge-Ansgar	ICBM
11	Meyerjürgens, Jens	ICBM
12	N.N.	ICBM
13	Nicole Trefault	UMA
14	De la Iglesia, Rodrigo	PUC
15	Díaz, Patricio	ULL
16	Varela, Daniel	ULL
17	Pérez-Santos, Ivan	ULL
18	Pizarro, Gemita,	IFOP
19	Iachetti, Clara	CADIC
20	Malits, Andrea	CADIC
21	Salgado, Pablo	IFOP
22	Frangópulos, Máximo	UMAG
23*	Humberto González	UACH
24*	Ricardo Giesecke	UACH



**Any
Questions?**

**Thanks for
Your Attention!**