APPENDIX

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A.1 PARTICIPATING INSTITUTIONS

Abbreviation	Adresse / Address
CH.WSL	Eidg. Forschungsanstalt für Wald, Schnee und Landschaft Institut für Schnee- und Larvinenforschung Flüelastrasse 11 7260 Davos Dorf Switzerland
CN.BNU	Beijing Normal University No. 19, Xinjiekouwai Street 100875 Beijing China
CN.PRIC	Polar Research Institute of China 451, Jinqiao, Pudong 200136 Shanghai China
CN.SIO	Second Institute of Oceanography Baochubei 36 310012 Hangzhou China
COM.BBC	British Broadcasting Corporation Broadcasting House Peel Wing Portland Place W1A 1AA London UK
DE.AWI	Alfred-Wegener-Institut Helmholtz-Zentrum für Polar- und Meeresforschung Postfach 120161 27515 Bremerhaven Germany
DE.DWD	Deutscher Wetterdienst Geschäftsbereich Wettervorhersage Seeschifffahrtsberatung Bernhard Nocht Str. 76 20359 Hamburg Germany
DE.FIELAX	Fielax - Gesellschaft für wissenschaftliche Datenverarbeitung mbH Schleusenstraße 14 27568 Bremerhaven Germany
DE.GEOMAR	GEOMAR Helmholtz-Zentrum für Ozeanforschung Wischhofstr. 1-3 24148 Kiel

	Germany
DE.GUJ	Gruner&Jahr Am Baumwall 11 20459 Hamburg Germany
DE.HeliService	Heli Service International GmbH Gorch-Fock-Straße 105 26721 Emden Germany
DE.LAEISZ	Reederei F. Laeisz GmbH Bartelstraße 1 27570 Bremerhaven Germany
DE.TROPOS	Leibniz Institut für Troposphärenforschung Permosserstr. 15 04318 Leipzig Germany
DE.UNI-Bremen	Universität Bremen Bibliothekstrasse 1 28359 Bremen Germany
DE.UFA	UFA Show & Factual GmbH Siegburger Strasse 215 50679 Köln Germany
DE.UNITRIER	Universität Trier Behringstraße 21 54296 Trier Germany
EDU.CSU	Colorado State University 1371 Campus Delivery 80523 Fort Collins USA
EDU.DARTMOUTH	Dartmouth College Thayer School of Engineering 14 Engineering Drive 3755 Hanover USA
EDU.OSU	Ohio State University 1330 Kinnear Road 43212 Columbus USA
EDU.UAF	University of Alaska Fairbanks

	2160 Koyukuk Drive PO Box 757340 99775 Fairbanks USA
EDU.CU	University of Colorado 216 UCB 80309 Boulder USA
FI.FMI	Finnish Meteorological Institute Erik Palmenin Aukio 1 100 Helsinki Finland
FI.UNI-Helsinki	Helsingin Yliopsto P.O. Box 64 FI-00014 University of Helsinki Finland
GOV.ARM	Atmospheric Radiation Measurement TA-51 87545 Los Alamos USA
GOV.BNL	Brookhaven National Laboratory 75 Rutherford Dr 11973 Upton USA
GOV.LANL	
GOV.NASA	National Aeronautics and Space Administration 300 E Street SW 20024-3210 Washington DC USA
GOV.ORNL	
GOV.SANDIA	
ORG.BIGELOW	Bigelow Laboratory for Ocean Sciences 60 Bigelow Drive 4544 East Boothbay USA
RU.AARI	Arctic and Antarctic Research Institute Ulitsa Beringa, 38 199397 Saint Petersburg Russia
SE.GU	Göteborgs Universitet Universitet Platsen 1

	40530 Göteborg Sweden
SE.SLU	Swedish University of Agricultural Sciences Turistgatan 5 45330 Lysekil Sweden
SE.SU	Stockholms Universitet Svante Arrhenius vag 20A 10691 Stockholm Sweden
UK.BAS	British Antarctic Survey High Cross, Madingley Road CB30ET Cambridge UK
UK.UNI-LEEDS	University of Leeds Woodhouse Lane LS2 9JT Leeds UK

PARTICIPATING INSTITUTIONS (NOT ON BOARD)

Abbreviations	**Institute / Institutes**
CA.UCALGAR	University of Calgary, Canada
CA.UMANITOBA	University of Manitoba, Canada
CA.UVICTORIA	University of Victoria, Canada
CA.UWaterloo	University of Waterloo, Canada
CH.PSI	Paul Scherer Institut, Switzerland
CN.NIEER.CAS	Northwest Institute of Eco Environment and Ressources, China
CN.PKU	Peking University, China
COM.UCL	University College London, UK
DE.DLR	Deutsches Zentrum für Luft- und Raumfahrt, Germany
DE.GFZ	Geoforschungszentrum, Germany
DE.HSVA	Hamburgische Schiffbau-Versuchsanstalt GmbH
DE.UNI-Bayreuth	Universität Bayreuth, Germany
DE.UNI-KOELN	Universität Köln, Germany
DE.UNI-Potsdam	Universität Potsdam, Germany
DK.DTU	Technical University of Denmark, Denmark
EDU.NPS	Naval Postgraduate School, USA
EDU.OREGONSTATE	Oregon State University, USA
EDU.PSU	Pennsylvania State University, USA
EDU.UCSD	Scripps Institution of Oceanography, USA
EDU.UMICH	University of Michigan, Ann Arbor, USA
EDU.URI	University of Rhode Island, USA
EDU.WHOI	Woods Hole Oceanographic Institution, USA
ES.CSIC	Consejo Superior de Investigaciones Cientificas, Spain
ES.ICM-CSIC	Institute of Marine Sciences, Spain
FR.UNIV-GRENOBLE	University Grenoble, France
FR.UNIV-LILLE	University Lille, France
GOV.NOAA	National Oceanic and Atmospheric Administration, USA
INT.ESA	European Space Agency
IT.UNISI	University of Siena, Italy
JP.AC.HOKUDAI	Hokkaido University, Japan
JP.AC.U-TOKYO	University of Tokyo, Japan
NL.WUR	Wageningen University & Research, Netherlands
NO.Akvaplan Niva	Akvaplan Niva Tromso, Norway
NO.IMR	Institute of Marine Research, Norway
NO.NPOLAR	Norwegian Polar Institute, Norway
NO.NTNU	Norwegian University of Science and Technology
NO.UIB	University of Bergen, Norway
NO.UIT	University of Tromso, Norway

SE.UU	Uppsala University, Sweden
UK.AC.HUD	University of Huddersfield, UK
UK.AC.MMU	Manchester Metropolitan University, UK
UK.AC.Plymouth	University of Plymouth, UK
UK.AC.UEA	University of East Anglia, UK
UK.AC.YORK	University York, UK

A.2 LIST OF PARTICIPANTS (Leg 1A)

Name/ Last Name	Vorname/ First Name	Institut/ Institute	Beruf/ Profession	Fachrichtung/ Discipline
Abrahamsson	Katarina	SE.GU	Scientist	Chemistry
Allison	Fong	DE.AWI	Scientist	Biology
Angelopoulos	Michael	DE.AWI	PhD student	other geo sciences
Bauch	Dorothea	DE.GEOMAR	Scientist	Physics
Blomquist	Byron	EDU.CU	Scientist	Chemistry
Boyer	Matt	GOV.ARM	Technician	Meteorology
Brooks	Ian	UK.UNI-LEEDS	Scientist	Meteorology
Castro	Vagner	GOV.ARM	Technician	Engineering Sciences
Chu	David	GOV.LANL	Technician	Chemistry
Costa	David	EDU.CU	Engineer	Meteorology
Dahlke	Sandro	DE.AWI	Scientist	Meteorology
Demir	Oguz	EDU.OSU	PhD student	Engineering Sciences
Ellis	Jody	GOV.ARM	Technician	Data
Engelmann	Ronny	DE.TROPOS	Scientist	Meteorology
Enríquez Garcia	Alberto	DE.HeliService	Technician	Helicopter Service
Gerchow	Peter	DE.AWI	Engineer	Logistics
Göring	Marlene	DE.GUJ	Journalist	Public Outreach
Gräser	Jürgen	DE.AWI	Technician	Meteorology
Graupner	Rainer	DE.AWI	Technician	Oceanography
greenamyer	Vernon	GOV.ARM	Technician	Logistics
Griess	Philipp	DE.UFA	Journalist	Public Outreach
Griffiths	Steele	GOV.ARM	Technician	Meteorology
Grote	Sebastian	DE.AWI	Journalist	Public Outreach
Hall	Shannon	FREELANCE	Journalist	Public Outreach
Hendricks	Stefan	DE.AWI	Scientist	Geophysics
Henriques	Martha	COM.BBC	Journalist	Public Outreach
Hermansen	Gaute	DE.LAEISZ	Technician	Logistics
Hildebrandt	Nicole	DE.AWI	Scientist	Biology
Hohle	Trude	DE.LAEISZ	Technician	Logistics
Honold	Hans	COM.ALPINEWELTEN	Observer	Logistics
Horvath	Esther	DE.AWI	Photographer	Public Outreach
Houchens	Todd	GOV.SANDIA	Technician	Engineering Sciences
Hueber	Jacques	EDU.CU	Technician	other geo sciences
Immerz	Antonia	DE.AWI	Scientist	Data
Käßbohrer	Johannes	DE.FIELAX	Scientist	Chemistry
Kieser	Jens	DE.DWD	Scientist	Meteorology

Kircher	Siegmund Dietmar	DE.KIRCHER	Technician	Shipping Company
Kirchgaessner	Amelie	UK.BAS	Scientist	Meteorology
Kirk	Henning	DE.AWI	Technician	Geophysics
Koenig	Ravenna	ORG.NPR	Journalist	Public Outreach
König	Bjela	DE.AWI	Engineer	Logistics
Krassovski	Misha	GOV.ARM	Engineer	Data
Kurtz	Nathan	GOV.NASA	Scientist	Glaciology
Matero	Ilkka	DE.AWI	Scientist	Geophysics
Mohaupt	Verena	DE.AWI	Scientist	Logistics
Nehring	Franziska	DE.FIELAX	Scientist	Data
Nicolaus	Marcel	DE.AWI	Scientist	Geophysics
Oggier	Marc	EDU.UAF	Scientist	Geophysics
Ortega	Paul	GOV.ARM	Engineer	other geo sciences
Persson	Ola	EDU.CU	Scientist	Meteorology
Preuβer	Andreas	DE.UNITRIER	Scientist	Meteorology
Quéléver	Lauriane	FI.UNI-Helsinki	PhD student	Physics
Raeke	Andreas	DE.DWD	Scientist	Meteorology
Raphael	Ian	EDU.DARTMOUTH	Student (Master)	Engineering Sciences
Regnery	Julia	DE.AWI	Scientist	other geo sciences
Rember	Robert	EDU.UAF	Scientist	Oceanography
Ren	Jian	CN.SIO	Scientist	Geology
Rex	Markus	DE.AWI	Scientist	Physics
Richman	Amy	EDU.CU	Artist	Public Outreach
Rokitta	Sebastian	DE.AWI	Scientist	Biology
Schiller	Martin	DE.AWI	Engineer	Engineering Sciences
Schlindwein	Vera	DE.AWI	Scientist	Geophysics
Shupe	Matthew	EDU.CU	Scientist	Meteorology
Snoeijs-Leijonmalm	Pauline	SE.SU	Scientist	Biology
Spreen	Gunnar	DE.UNI-Bremen	Scientist	Physics
Stark	Jakob	DE.UFA	Journalist	Public Outreach
Stenssen	Willem Albertus	DE.HeliService	Engineer	Helicopter Service
Stenzel	Olaf	DE.AWI	Technician	Logistics
Sterbenz	Thomas	DE.LAEISZ	Engineer	Shipping Company
Svenson	Anders	SE.SLU	Technician	Biology
Tholfsen	Audun	FREELANCE	Technician	Logistics
Uin	Janek	GOV.BNL	Scientist	Physics
Verdugo	Maria Josefa	DE.AWI	PhD student	other geo sciences
Viegas	Juarez	GOV.ARM	Engineer	Meteorology

Volgger	Ingo	DE.HeliService	Pilot	Helicopter Service
von Schlebrügge	Nikolaus	DE.UFA	Journalist	Public Outreach
Wagner	David	CH.WSL	PhD student	other geo sciences
Zillgen	Carsten	DE.HeliService	Pilot	Helicopter Service
Zoelly	Christian	FREELANCE	Technician	Logistics

A.2 LIST OF PARTICIPANTS (Leg 1B)

Name/ Last Name	**Vorname/ First Name**	**Institut/ Institute**	**Beruf/ Profession**	**Fachrichtung/ Discipline**
Abrahamsson	Katarina	SE.GU	Scientist	Chemistry
Angelopoulos	Michael	DE.AWI	PhD student	other geo sciences
Archer	Steve	ORG.BIGELOW	Scientist	Oceanography
Bauch	Dorothea	DE.GEOMAR	Scientist	Physics
Blomquist	Byron	EDU.CU	Scientist	Chemistry
Castro	Vagner	GOV.ARM	Technician	Engineering Sciences
Costa	David	EDU.CU	Engineer	Meteorology
Creamean	Jessie	EDU.CSU	Scientist	Chemistry
Demir	Oguz	EDU.OSU	PhD student	Engineering Sciences
Engelmann	Ronny	DE.TROPOS	Scientist	Meteorology
Enríquez Garcia	Alberto	DE.HeliService	Technician	Helicopter Service
Fang	Ying-Chih	DE.AWI	Scientist	Oceanography
FONG	ALLISON	DE.AWI	Scientist	Biology
Graeser	Jürgen	DE.AWI	Technician	Meteorology
Griffiths	Steele	GOV.ARM	Technician	Meteorology
He	Hailun	CN.SIO	Scientist	Oceanography
Hendricks	Stefan	DE.AWI	Scientist	Geophysics
Hermansen	Gaute	DE.LAEISZ	Technician	Logistics
Hildebrandt	Nicole	DE.AWI	Scientist	Biology
Hohle	Trude	DE.LAEISZ	Technician	Logistics
Honold	Hans	COM.ALPINEWELTEN	Observer	Logistics
Hoppmann	Mario	DE.AWI	Scientist	Oceanography
Horvath	Esther	DE.AWI	Photographer	Public Outreach
Immerz	Antonia	DE.AWI	Scientist	Data
Jari	Haapala	FI.FMI	Scientist	Oceanography
Käßbohrer	Johannes	DE.FIELAX	Scientist	Chemistry
Kieser	Jens	DE.DWD	Scientist	Meteorology
Kolabutin	Nikolay	RU.AARI	Scientist	Physics
König	Bjela	DE.AWI	Engineer	Logistics
Lan	Musheng	CN.PRIC	Scientist	Biology

Lei	Ruibo	CN.PRIC	Scientist	Oceanography
Matero	Ilkka	DE.AWI	Scientist	Geophysics
Mohaupt	Verena	DE.AWI	Scientist	Logistics
Nicolaus	Marcel	DE.AWI	Scientist	Geophysics
Oggier	Marc	EDU.UAF	Scientist	Geophysics
Persson	Ola	EDU.CU	Scientist	Meteorology
Preußer	Andreas	DE.UNITRIER	Scientist	Meteorology
Quéléver	Lauriane, Lucie, Josette	FI.UNI-Helsinki	PhD student	Physics
Raphael	Ian	EDU.DARTMOUTH	Student (Master)	Engineering Sciences
Regnery	Julia	DE.AWI	Scientist	other geo sciences
Rember	Robert	EDU.UAF	Scientist	Oceanography
Ren	Jian	CN.SIO	Scientist	Geology
Rex	Markus	DE.AWI	Scientist	Physics
Richman	Amy	EDU.CU	Artist	Public Outreach
Sandro	Dahlke	DE.AWI	Scientist	Meteorology
Shimanchuk	Egor	RU.AARI	Engineer	other geo sciences
Shupe	Matthew	EDU.CU	Scientist	Meteorology
Snoeijs-Leijonmalm	Pauline	SE.SU	Scientist	Biology
Spreen	Gunnar	DE.UNI-Bremen	Scientist	Physics
Stark	Jakob	DE.UFA	Journalist	Public Outreach
Stenssen	Willem Albertus	DE.HeliService	Engineer	Helicopter Service
Stenzel	Olaf	DE.AWI	Technician	Logistics
Sterbenz	Thomas	DE.LAEISZ	Engineer	Shipping Company
Svenson	Anders	SE.SLU	Technician	Biology
Tholfsen	Audun	FREELANCE	Technician	Logistics
Verdugo	Maria Josefa	DE.AWI	PhD student	other geo sciences
Viegas	Juarez	GOV.ARM	Engineer	Meteorology
Volgger	Ingo	DE.HeliService	Pilot	Helicopter Service
von Schlebrügge	Nikolaus	DE.UFA	Journalist	Public Outreach
Wagner	David	CH.WSL	PhD student	other geo sciences
Wang	Lei	CN.BNU	PhD student	other geo sciences
Zillgen	Carsten	DE.HeliService	Pilot	Helicopter Service
Zoelly	Christian	FREELANCE	Technician	Logistics

A.3 SHIP'S CREW (Leg 1A1)

Name/ Last Name	Vorname/ First Name	Position/ Rank
Schwarze	Stefan	Master
Grundmann	Uwe	Chiefmate
Lauber	Felix	1st Mate
Peine	Lutz	2nd Mate
Grafe	Jens	Ch. Eng.
Haack	Michael	2nd Eng.
Frank	Gerhard	ELO
Krinfeld	Oleksandr	2nd Eng.
Redmer	Jens Dirk	E-Eng.
Nasis	Ilias	ELO
Hüttebräucker	Olaf	ELO
Miersch	Wulf Dietrich	Ships Doc
Brück	Sebastian	Bosun
Henning	Jörg	Carpenter
Buchholz	Joscha	MP Rat.
Klee	Philipp	MP Rat.
Möller	Falko	MP Rat.
Peper	Sven	MP Rat.
Bäcker	Andreas	A.B.
Wende	Uwe	A.B.
Plehn	Markus	Storek.
Decker	Jens	MP Rat.
Gebhardt	Norman	MP Rat.
Rhau	Lars-Peter	MP Rat.
Schwarz	Uwe	MP Rat.
Teichert	Uwe	MP Rat.
Meißner	Jörg	Cook
Rosenhagen	Kai	Cooksm.
Zahn	Maren	Cooksm.
Czyborra	Bärbel	Chief Stwdess
Wöckener	Martina	Nurse
Chen	Dansheng	2nd Steward
Dibenau	Torsten	2nd Steward
Golla	Gerald	2nd Steward
Shi	Wubo	2nd Steward
Silinski	Carmen	2nd Stwdess
Sun	Yongsheng	2nd Steward

SHIP'S CREW (Leg 1A2)

Name/ Last Name	Vorname/ First Name	Position/ Rank
Schwarze	Stefan	Master
Grundmann	Uwe	Chiefmate
Lauber	Felix	1st Mate
Peine	Lutz	2nd Mate
Grafe	Jens	Chief
Haack	Michael	2nd Eng.
Krinfeld	Oleksandr	2nd Eng.
Redmer	Jens Dirk	E. Eng.
Krüger	Lars	ELO
Nasis	Ilias	ELO
Frank	Gerhard	ELO
Hüttebräucker	Olaf	ELO
Miersch	Wulf Dietrich	Ships Doc
Brück	Sebastian	Bosun
Henning	Jörg	Carpenter
Buchholz	Joscha	MP Rat.
Klee	Philipp	MP Rat.
Möller	Falko	MP Rat.
Peper	Sven	MP Rat.
Bäcker	Andreas	A.B.
Wende	Uwe	A.B.
Plehn	Markus	Storek.
Decker	Jens	MP Rat.
Gebhardt	Norman	MP Rat.
Rhau	Lars-Peter	MP Rat.
Schwarz	Uwe	MP Rat.
Teichert	Uwe	MP Rat.
Meißner	Jörg	Cook
Rosenhagen	Kai	Cooksm.
Zahn	Maren	Cooksm.
Czyborra	Bärbel	Chief Stwdess
Wöckener	Martina	Nurse
Chen	Dansheng	Laundrym.
Dibenau	Torsten	2nd Steward
Golla	Gerald	2nd Steward
Shi	Wubo	2nd Steward
Silinski	Carmen	2nd Stwdess
Sun	Yongsheng	2nd Steward

SHIP'S CREW (Leg 1B)

Name/ Last Name	Vorname/ First Name	Position/ Rank
Schwarze	Stefan	Master
Grundmann	Uwe	Chiefmate
Lauber	Felix	1st Mate
Peine	Lutz	2nd Mate
Grafe	Jens	Chief
Haack	Michael	2nd Eng.
Krinfeld	Oleksandr	2nd Eng.
Redmer	Jens Dirk	E. Eng.
Nasis	Ilias	ELO
Frank	Gerhard	ELO
Hüttebräucker	Olaf	ELO
Miersch	Wulf Dietrich	Ships Doc
Brück	Sebastian	Bosun
Henning	Jörg	Carpenter
Buchholz	Joscha	MP Rat.
Klee	Philipp	MP Rat.
Möller	Falko	MP Rat.
Peper	Sven	MP Rat.
Bäcker	Andreas	A.B.
Wende	Uwe	A.B.
Plehn	Markus	Storek.
Decker	Jens	MP Rat.
Gebhardt	Norman	MP Rat.
Rhau	Lars-Peter	MP Rat.
Schwarz	Uwe	MP Rat.
Teichert	Uwe	MP Rat.
Rosenhagen	Kai	Cook
Golla	Gerald	Cooksm.
Zahn	Maren	Cooksm.
Czyborra	Bärbel	Chief Stwdess
Wöckener	Martina	Nurse
Chen	Dansheng	Laundrym.
Dibenau	Torsten	2nd Steward
Shi	Wubo	2nd Steward
Silinski	Carmen	2nd Stwdess
Sun	Yong Sheng	2nd Steward

A.4 STATION LIST

The station list is available on PANGAEA (World Data Center PANGAEA Data Publisher for Earth & Environmental Science)

https://www.pangaea.de/expeditions/events/PS122%2F1

Please note that some details might still get updated.

A.5 MOSAIC DATA POLICY

The MOSAiC data policy (Immerz et al. 2019) is available on ZENODO and attached to this document.

Reference

Immerz, Antonia, Frickenhaus, Stephan, von der Gathen, Peter, Shupe, Matthew, Morris, Sara, Nicolaus, Marcel, Schneebeli, Martin, Regnery, Julia, Fong, Allison, Snoeijs-Leijonmalm, Pauline, Geibert, Walter, Rabe, Ben, Herber, Andreas, Krumpen, Thomas, Singha, Suman, Jaiser, Ralf, Ransby, Daniela, Schumacher, Stefanie, Driemel, Amelie, Gerchow, Peter, Schäfer, Angela, Schewe, Ingo, Ajjan, Mohammad, Glöckner, Frank Oliver, Schäfer-Neth, Christian, Jones, Christopher, Goldstein, Jesse, Jones, Matt, Prakash, Giri, Rex, Markus (2019). MOSAiC Data Policy. Zenodo. https://doi.org/10.5281/zenodo.4537178