

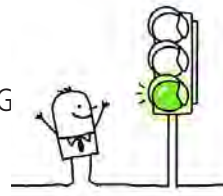


(AC)³ Newsletter

EDITORIAL

Dear Reader,

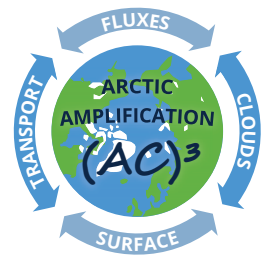
we made it! After an excellent evaluation in September, today DFG gave its final green light for the second phase of our (AC)³ project!



This is really awesome news, and we all can be proud of this major achievement. We have worked so hard in phase 1 and obviously convinced the reviewers and the DFG to continue our program.

To remind us of the milestones within the last four years, this Special Issue of the (AC)³ Newsletter contains a time bar displaying important steps of our work in phase 1 of (AC)³. We thought this would be a nice overview and would provide a convenient transition towards the end of the first phase and into the Christmas holidays, after which we will immediately get back to work with full force again.

It's time to celebrate!



November 2019
Special Issue

TOPICS IN THIS ISSUE

- Editorial
- CAMPAIGNS
- MEETINGS
- PhD events
- MEDIA and PUBLICATIONS
- OUTREACH and much more...

Manfred Wendisch, Speaker of (AC)³, Christa Genz, Marlen Brückner, Scientific Coordinators.

Milestones 2015

- 13 July 2015
- 08 - 09 September 2015
- 20 November 2015

Submission of $(AC)^3$ phase I proposal to DFG

Review Panel Meeting

DFG decision

$(AC)^3$ will be funded with 9.176 Mio € starting 01 January 2016



Innerhalb der letzten 25 Jahre wurde ein überproportionaler Anstieg der bodennahen Lufttemperatur in der Arktis beobachtet – er übertrifft die durchschnittliche globale Erwärmung um das Doppelte. Dieses Phänomen wird als arktische Verstärkung bezeichnet. Sie führt zu dramatischen Veränderungen in der Arktis, die erhebliche Auswirkungen auch auf das globale Klimasystem haben. Allerdings können Klimamodelle diesen Effekt bis heute nicht korrekt reproduzieren. Daher hat es sich der Sonderforschungsbereich/Transregio „Arktische Verstärkung: Klimarelevante Atmosphären- und Oberflächenprozesse und Rückkopplungsmechanismen: $(AC)^3$ “ zum Ziel gesetzt, die Schlüsselprozesse, die zur arktischen Verstärkung beitragen, zu identifizieren, zu untersuchen und zu bewerten. So soll das Verständnis der wesentlichen Rückkopplungsmechanismen vertieft und gleichzeitig deren relative Bedeutung für die arktische Verstärkung quantifiziert werden. Durch die Verbindung von Beobachtungs- und Modellstudien sollen zudem die Vorhersagen der künftigen arktischen Klimaentwicklung verbessert werden.
(Sprecherhochschule: Universität Leipzig, Sprecher: Professor Dr. Manfred Wendisch, außerdem antragstellend: Universität Bremen, Universität zu Köln)

Milestones 2016

- 01 January 2016
- 16 - 17 February 2016
- 30 May - 01 June 2016

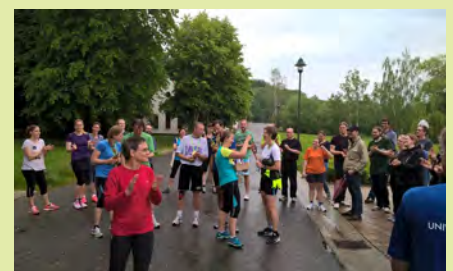
Start of $(AC)^3$

22 scientific projects in 5 clusters, supported by 2 central projects started their work.

ACLOUD meeting in Leipzig

Planning of the aircraft campaign ACLOUD from 22 May – 28 June 2017 in Longyearbyen, Svalbard, and start of collaborations within projects, between research areas and with the external partners

$(AC)^3$ Kick-off meeting in Grimma



- 01 - 02 June 2016

$(AC)^3$ -PhD Kick-off meeting

The PhD students of $(AC)^3$ had a get together subsequently to the $(AC)^3$ Kick-off meeting.



01 July 2016



Sächsische Expedition ins Eis

Es geht um Meeres, Wasser und die Luft darüber. All dies hat etwas mit unserem Wetter zu tun. Die SZ begleitet Leipziger Forscher in die Arktis.

Von Strauss, S. 10
Die Forscher der Leipziger Universität sind im Sommer der Nordpolregion im Einsatz. Sie werden von der Sächsischen Zeitung begleitet. Die Expedition ins Eis ist ein Projekt der Leipziger Universität. Die Forscher sind im Sommer der Nordpolregion im Einsatz. Sie werden von der Sächsischen Zeitung begleitet. Die Expedition ins Eis ist ein Projekt der Leipziger Universität.

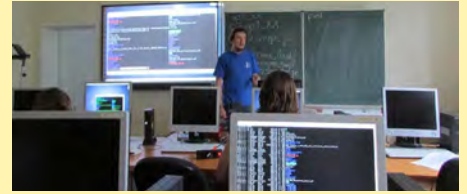
“Sächsische Expedition ins Eis”

Stephan Schön reports in the *Sächsische Zeitung* about the upcoming Polarstern cruise in 2017. He will accompany our scientists in the Arctic during PASCAL.

14 - 17 July 2016

PhD workshop in Leipzig

The workshop gave a short introduction into Linux/Unix and Programming with FORTRAN through exercises and coaching. It was held by PhD students who are experienced users.



18 - 19 October 2016

PAMARCMiP Kick-off meeting in Bremen

08 November 2016

Exhibition “Das Meer beginnt hier” in Berlin

Foyer of the Federal Ministry of Education and Research (BMBF)

The exhibition illustrated how research in the Arctic and Antarctic is possible under extrem conditions.



21 - 22 November 2016

ACLOUD workshop in Bremen

About 30 researchers from Germany and France took part in the workshop. Most of the participants were key international ACLOUD PIs, aircraft instrument scientists and (AC)³ researchers who all actively took part in the ACLOUD campaign or used the data for their research.



01 - 02 December 2016

1st General Assembly in Potsdam

The Early Career Scientist and PIs presented their scientific highlights from the first year. During breakout group discussion, the (AC)³ participants discussed ongoing collaborations with other Cluster groups and upcoming campaigns.

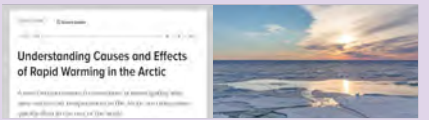


Milestones 2017

17 January 2017

Understanding Causes and Effects of Rapid Warming in the Arctic

EOS (AC)³ overview by [Wendisch et al., 2017](#)



19 - 25 March 2017

Winter School on the Observation and Modeling of High-latitude and Arctic Clouds

The course topics include: cloud and precipitation observations (cloud radars, lidars, solar and microwave radiometers, in-situ sensors), cloud modeling, precipitation formation, boundary layer modeling.



26 - 28 March 2017

1st (AC)³ Science Conference on Arctic Amplification in Bremen



23 - 28 April 2017

(AC)³ booth at EGU in Vienna

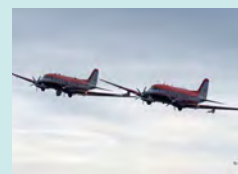
together with two other CRC/TR and a Forschergruppe



22 May - 28 June 2017

ACLOUD/PASCAL campaign based in Longyearbyen, Spitzbergen

Helmholtz Polarstern-Blog
 AWI PS106/1 Wochenberichte
 ACLOUD Blog, arktis-zeichenblog
 social media: twitter, instagram, facebook
 EisZeit special in Sächsische Zeitung
 ARD Tagesthemen
 Spiegel Online
 Eos Postcards from the field
 BMBF article
 Deutschlandfunk, MI



02 October 2017

First vernissage of paintings from ALOUD/PASCAL



04 October 2017

Advanced Training Module (ATM) of Leipzig Graduate School on Polar Mid-Latitude Linkages Caused by Arctic Amplification

05 - 06 October 2017

International workshop on Airborne Activities in the Arctic: Science and Prospects in Leipzig

17 October 2017

SZ-Online: EisZeit conceptional edition to the PASCAL campaign

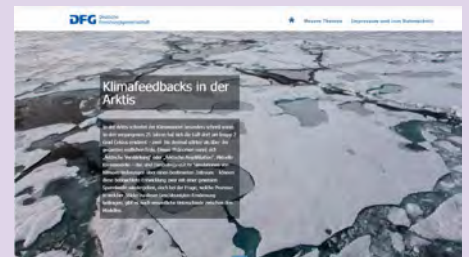
Climate research in the Arctic: insights, stories, photographs and videos are online available in a very special 3D edition of the Sächsische Zeitung, including a virtual reality special and a [YouTube Trailer](#).



27 October 2017

Climate feedbacks in the Arctic

As a contribution to the science year 2016*17 "Seas and Ocean" of the Federal Ministry for Education and Research (BMBF), the "KlimaTaucher" presents DFG funded projects on climate and marine research.



06 - 08 November 2017

Workshop on Arctic snow and sea ice properties and interactions with atmosphere (PAMARCMiP) in Bremen

20 - 21 November 2017

Crosscutting Activity Workshop: Modeling - Observation data from ALOUD/PASCAL

27 - 28 November 2017

2nd (AC)³ General Assembly meeting in Cologne



29 - 30 November 2017

**(AC)³ PhD workshop
Improvisation instead of irritation**



Milestones 2018

06 - 08 March 2018

3rd General Assembly in Leipzig



10 March - 08 April 2018

PAMARCMiP campaign based in Greenland



12 March 2018

Surveying the Arctic: Tracking down carbon particles

[AWI press release](#)



15 March 2018



“Climate Recordings” presented at the Leipziger Buchmesse

Rector of University of Leipzig, Prof. Schücking, presented the book also the SMWK minister Eva-Maria Stange.

22 June 2018

(AC)³ @ “Lange Nacht der Wissenschaften” in Leipzig



28 June 2018

HALO-(AC)³ planning meeting

03 - 04 July 2018

PI planning meeting for the second phase of (AC)³



12 August 2018

Arctic Ocean 2018 - ODEN reaches the North Pole MOCCHA campaign with contributions from (AC)³



21 September 2018

Ice Surveys and Neckties at Dinner: Here's Life at an Arctic Outpost

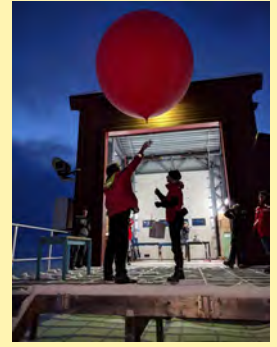
[Article in the New York Times](#) with photographs by Esther Horvath



09 - 10 October 2018

UNIS course in Ny-Ålesund

The Arctic Geophysics course "The Middle Polar Atmosphere" (AGF-210) from UNIS in Longyearbyen made an excursion to Ny-Ålesund, to the Sverdrup and AWIPEV stations.



14 - 17 October 2018

PhD workshop in Cologne

Proposal writing and writing retreat



29 October 2018

Role of air-mass transformations in exchange between the Arctic and mid-latitudes

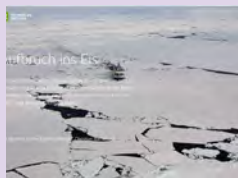
Nature Geosciences paper by [Pithan et al.](#) on-line available



01 November 2018

Aufbruch ins Eis

For four weeks, science journalist Stephan Schön signed in as a research assistant on board the icebreaker Polarstern. Why he went to the Arctic and what is shown in this [multimedia essay](#).



12 - 14 November 2018

2nd (AC)³ Science conference on Arctic amplification



15 - 16 November 2018

(AC)³ PhD workshop

Statistical methods for the analysis of climate data



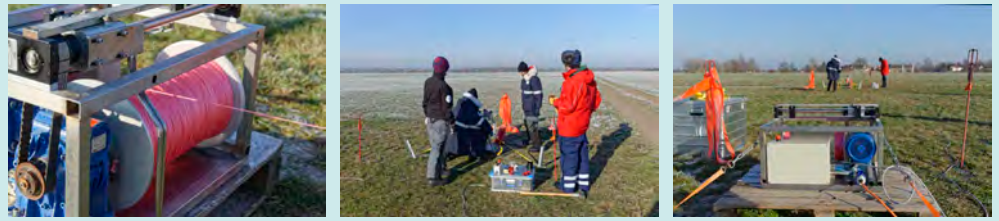
Milestones 2019

15 - 17 January 2019

● **PI meeting and 4th General Assembly for the planning of (AC)³ phase II in Bremen**

January / February 2019

● **Melpitz training for MOSAiC**



05 March 2019

● **Submission of the preproposal for (AC)³ phase II to DFG**

15 March - 16 April 2019

● **AFLUX campaign based in Longyearbyen, Spitzbergen**



16 - 17 May 2019

● **PhD workshop in Leipzig**

“What to do with a PhD? Professional orientation for PhD students”



03 - 05 June 2019

● **International workshop on Airborne Activities in the Arctic: Science and Prospects in Bremen**

05 July 2019

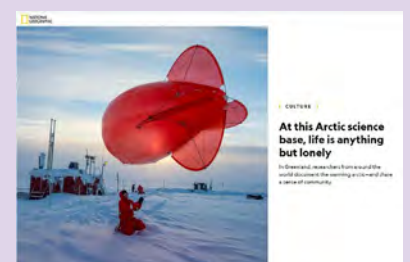
● **Submission of the proposal for (AC)³ phase II to DFG**

September 2019

● **At this Arctic science base, life is anything but lonely**

[National Geographic](#) article with photographs by Esther Horvath

In Greenland, researchers from around the world document the warming arctic - and share a sense of community.



05 - 06 September 2019

Rehearsal of the evaluation of (AC)³ phase II



11 -12 September 2019

Review panel meeting of (AC)³ phase II



20 September 2019

Start of MOSAiC

Follow Polarstern in the WebAPP: <https://follow.mosaic-expedition.org/>



21 September 2019

eingefroren

Exhibition in the Kunst- & Literaturforum Amalienpark Berlin with works from Martin Enderlein, Ellen Fuhr, Günter Fuhr, Annette Gundermann, Kerstin Heymach, Dorothee H. Jacobs, Julika Müller, Thomas K. Müller



25 September 2019

Ein Jahr eingefroren in der Arktis

[BMBF article](#) about MOSAiC

Trapped in the Arctic ice, research vessel Polarstern will spend one year drifting through the Arctic Ocean. Goal of the mission are fundamental insights that are key to better understand global climate change.



22 November 2019

DFG decision to continue (AC)³

The second phase of (AC)³ will be funded by DFG with 11.5 Mio € starting 01 January 2020

27 - 28 November 2019

PAMARCMiP workshop in Potsdam

02 - 04 December 2019

ACLOUD workshop in Cologne

Follow MOSAiC in the WebAPP: <https://follow.mosaic-expedition.org/>

ACKNOWLEDGEMENTS

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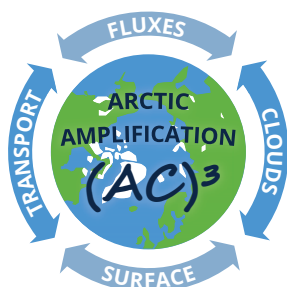
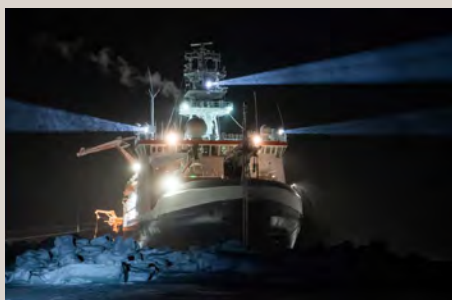
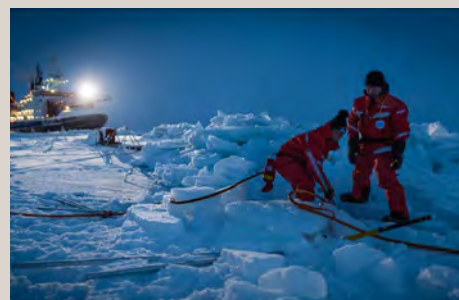
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(AC)³ NEWSLETTER

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