

## NYHETSBREV

Geofysisk institutt  
Universitetet i Bergen



April 2022



[ For English, please see below ]



### *Party like it's 2020!*

Da er vi omsider offisielt ferdig med et visst virus; regjeringen opphevet denne uken til og med anbefalingen om at man skal holde seg hjemme ved positiv test. Good riddance!

Og da er det dags for å komme seg tilbake på sporet fra før mars 2020, også det sosiale. Første post på programmet er da markeringen av Arne Foldviks første 90 – det vil si 92 – år på kloden. Dette arrangementet var jo det første(?) kjente COVID-offer på Geofysen, men nå skal det endelig finne sted. Det blir festseminar og -middag torsdag 19. mai. (Ta kontakt med Elin eller Tor G for arrangementet.)

Det blir mer feiring fram mot sommeren. Jeg er veldig fornøyd med og stolt over at vår gode venn og kollega Fiamma Straneo er utnevnt som æresdoktor ved UiB. Selve seremonien finner sted i Aulaen 2. juni, og så skal vi markere det grundig på Geofysen og Bjerknessenteret i uken deretter. Så merk av kalenderen, inkludert Fiammas “acceptance speech” den 3. juni, *An oceanographer's journey to the edge of the Greenland Ice Sheet*.

Fra Geofysens egen forskning, er det også mye å glede seg over (men dere må bli flinkere å legge ut info inkludert kort, informativt sammendrag på vår dedikerte Teams-kanal når dere publiserer).

Elina har tatt for seg forutsigbarheten av isdekket i Barentshavet – ikke bare størrelsen på arealet, men [hvordan det faktisk fordeler seg ved hvilke mekanismer](#) fra ett år til det neste. Filippa og Friederike har trukket med seg et par av våre eldre professorer i sitt nasjonale samarbeid og begått [DEN store oversiktsartikkelen for havforsuring i De nordiske hav](#). Som observert siste 40 år, og som modellert fra førindustriell tid og fram til 2100. (Havet blir surere.)

Stefanie er godt i gang med sin postdoc, og har [dukket ned i vannmassene nord for Island](#) (et av stedene hun tilbringer postdocen) sammen med Kjetil & Co. Også Christiane har vært ute og seilt i de samme farvannene – og hjulpet eldre professorer å publisere; de dokumenterer [turbulensen i atmosfærens grenselag knyttet til utbrudd av kaldluft](#). (Og det er kaldt!)

Knyttet til alt vi må, kan eller ønsker å gjøre, er det en prosaisk men viktig tyngdelov; tilgjengelig finansiering ...

Som nevnt i et tidligere nyhetsbrev, dette er et år med særdeles stramme budsjett hva angår grunnbevilgningen – for UiB, for fakultet, for Geofysen. Kristin og jeg jobber derfor kontinuerlig med å forbedre både oversikt og innsikt i vår økonomiske situasjon. (Den eksternfinansierte delen av økonomien er separat fra dette, og går

stadig veldig bra; det det her er snakk om er vår direkte statlige finansiering for å være universitet og det som fast finansierer den grunnleggende virksomheten, inkludert tilrettelegging av eksternfinansiert forskning.)

Og, som alltid, det er gode nyheter, og det er dårlige.

Den gode nyheten er at vi gjør det veldig bra på «resultatdelen» – som skalerer med studiepoeng, publisering, eksternfinansiering, mao det vi mest direkte kan påvirke selv – av den grunnbevilgningen vi mottar via fakultetet. (Og vi gjør det super-ekstremt bra på delen knyttet til eksternfinansiering; vi er den enheten på UiB som bidrar med mest til UiBs grunnbevilgning knyttet til dette.)

Den dårlige er at det over år ikke synes å være noen sammenheng mellom dette og grunnbevilgningen vi faktisk mottar fra UiB via fakultetet. Jeg er både forbauset og uroet over denne manglende sammenhengen mellom prestasjon og uttelling i egen grunnbevilgning. Vi har innledet samtaler med fakultetsledelsen for større felles innsikt i hvordan vi har endt opp med dette (som jeg ville forventet var bedre, og dermed vil skal bli bedre i framtiden).

Men vi søker jo ikke forskningsmidler eller andre midler primært som en pengegenereringsmaskin – da finnes det andre karriereveier der en kommer lettere til pengene med mindre innsats. Vi gjør det for å virkeliggjøre den forskningen og utdanningen instituttet og den enkelte ønsker å bidra med. Og her legges det ned en imponerende innsats fra dere alle som jeg tidvis skulle ønske resten av UiB i enda større grad var klar over.

Takk til alle – og det er mange – som legger ned en innsats for å få finansiert egen og ikke minst andres forskning! (Apropos, jeg ser akkurat i min epost at Kjersti, Xabier og Leilane har fått innvilget sine Meltzer-søknader om støtte til sine PhD-prosjekt – gratulerer!)

Jeg ønsker der alle en velfortjent og avslappende påskeferie.

## ***Party like it's 2020!***

Then we're finally and officially done with a certain virus; the Norwegian government this week even let go of the recommendation to stay at home when testing positive. Good riddance!

So, it's time to get back on track to where we were going prior to March 2020, also socially. First on the agenda is the celebration of Arne Foldvik's first 90 – now 92 – years on the planet. The original event was the first(?) known victim to COVID at GFI, but now it will finally take place. There will be a seminar, dinner, and festivities Thursday May 19<sup>th</sup>. (Get in touch with Elin or Tor G. for this.)

And there are more celebrations coming up before summer. I am very happy and proud that our good friend and colleague Fiamma Straneo has been offered and has accepted an honorary doctorate at UiB. The ceremony will be in the University Aula June 2<sup>nd</sup>. And Geofysen and the Bjerknes Centre will continue celebrating with Fiamma the following week. So, mark your calendars, including for her "acceptance speech" June 3<sup>rd</sup>, *An oceanographer's journey to the edge of the Greenland Ice Sheet*.

Also, regarding our own research, there's much to take pride in (but you guys really got to improve in posting your achievements in our dedicated Teams channel, including a short informative – as in for non-specialists – summary when you publish).

Eлина has disentangled the predictability of the Barents Sea ice cover – this time not only area as a bulk number, but predicting [how the sea ice cover is actually distributed by which mechanisms](#) changing from one year to the next. Filippa and Friederike have kindly pulled a few of our elderly professors along with their national team to complete [THE overview of ocean acidification in the Nordic Sea](#) – as observed the last 40 years, and as modelled from the preindustrial to 2100. (Yes, the acidification is increasing.)

Stefanie is progressing well in her postdoc (no surprise there) [and has dived into the water masses north of Iceland](#) (where she now spends much of her time; in Iceland, that is), joined by Kjetil & Co. Christiane has also been sailing these seas and, I believe, a little beyond. She also kindly helping elderly professors to publish. Together they document [the evolving turbulence of the atmospheric boundary layer during cold-air outbreaks](#). (And it's cold!)

Related to all that we must, can or would like to do, there is one literally mundane constraint. The available funding...

As referred to in a previous newsletter, this year is tight regarding our basic funding – for UiB in general, for the faculty, for GFI. Kristin and I are continuously working on improving our overview and insights related to our finances. (The external funding is separate from what I address here, and still runs like clockwork – thank you all! The concern here is the basic funding that comes with being a university, the funding of the core structure, including accommodating for applying for and securing external funding.)

And, per normal, there is good news, and there is bad news...

The good news is that we're doing very well in the "results" part of the spreadsheet adding up to our annual basic funding received via the faculty – scaling with the ECTS, published papers and external funding we have achieved. (And we're doing super extremely well regarding external funding; we're the unit at UiB that contributes the most to UiB's basic funding from the government related to this.)

The bad news is that it appears to be no systematic relation between this, and the actual basic funding received. I'm both surprised and concerned of a lacking improvement in basic funding from our solid improvement in the "metrics" that are explicit part of estimating the very same basic funding. We've initiated a dialogue with the faculty jointly to understand why this is so, and I sincerely hope to rectify this.

Anyway, we do not compete for funding for the competition or the money itself. Then there are other lines of business to pursue where money comes easier – and the work hours are less. We do this to realize the research and education the institute and you guys want to contribute. And here the effort is consistently massive across GFI, and the outcome pretty good – and, at times, I think it'd be good if the example you set was even better known across UiB.

Thank you all – and there's many of you! – that put down the effort to get the research, including that of colleagues, funded! (Talking of which, in my email I now see that Kjersti, Xabier and Leilane all have got their Meltzer-proposals related to their PhD-projects funded – congratulations!)



I wish you all a most well-deserved and relaxing Easter break.

Tor



## [Dekanbloggen – Gunn Mangerud](#)

Siste innlegg;

- En verden i krig
- Universitetsbibliotekene har en tydelig plass i fremtidens universitetssamfunn
- Hva er viktigst: At studenter gjennomfører på normert tid eller får seg en grad?
- Det lønner seg å drive kunnskapsoverføring

## Welcome to the Geophysical Institute!



### Andrea Marcheggiani

My name is Andrea Marcheggiani and I just joined the Geophysical Institute to work on midlatitude storm track dynamics and the role that diabatic processes play in their evolution. I am originally from Italy, where I studied Physics as an undergrad before moving to Reading (UK) for a PhD on heat fluxes in the atmosphere and their role in the dynamics of midlatitude storm tracks. Most recently I took part to the final stages of ACSIS project (N Atlantic climate system), specifically looking into the predictability of the North Atlantic eddy-driven jet on annual to decadal time scales.

Work unrelated, I quite enjoy cooking, reading and learning languages (already working on my Norsk!). Despite being Italian, I am not a fan of coffee (more of a tea person).

I'm really looking forward to get settled in Bergen and meeting new colleagues and friends!"



### João Bettencourt

I'm João Bettencourt and I've joined GFI as SEAS Postdoctoral Fellow in Fjord Physical Oceanography. My research at GFI will be on the sustainability of Norwegian fjords in the Anthropocene. I'll use models and observations to understand how dissolved oxygen levels in the basin water of fjords have changed in the past and how they will evolve in the future under climate change.

I'm from the Azores, Portugal, and I studied engineering in Lisbon. I worked in Norway as a hydrodynamicist and then moved to Spain where I obtained my Ph.D. in Nonlinear Physics at IFISC. I then worked as a postdoc on dissolved oxygen dynamics in the Iberian Peninsula Upwelling at Toulouse and then modeled the hydrodynamic circulation in the Eastern North Atlantic at Lisbon. I'm thrilled to moving to Bergen and joining GFI!



### Paul Dees

I am Paul Dees, and I hope to start work at GFI in the beginning of May this year. I completed my PhD during 2021 at the Scottish Association for Marine Science on the west coast of Scotland. My PhD was an attempt to improve methods of predicting harmful algal blooms which impact the Shetland Islands every year. I used a combination of physical data from CTD transects and models, historic biological data from coastal and pelagic monitoring of plankton, and collecting chemical data from shellfish samples used with historical records. As part of the SEAS project, I hope to use historical plankton datasets to find evidence of regime shifts in the past and compare this to physical data while at GFI. Predictions of other regime shifts in data-poor areas and in possible future scenarios can then be made and provide projections of how marine ecosystems will be altered by a changing climate.

I am looking forward to coming to Bergen and sharing ideas!

## Aktuelt

### Polar Network Gathering, Bergen, March 31. 2022.

Thursday March 31, we had two quite different and spectacular takes on «Polar Masculinity». Norway is a country with a strong «Polar Identity» and for many of us **Børge Ousland** is the present carrier of a proud polar explorer tradition. He gave us a beautiful and personal journey from his childhoods holidays saling in Oslofjorden through his many experiences in Antarctica and the Arctic. **Sigrid Lien** took us back in history to the early French explorers (1795). The paintings created years after the expeditions itself, had a clear agenda of telling a dramatic and heroic story. Later (1885), Sophus Tromholt travelled from Bergen to Lappland and attempted photographing the northern lights, but succeeded much better in depicting the Sami population.

For a sea ice researcher like me, the most fascinating images that **Børge Ousland** showed, were from the thin ice areas north of Siberia. On his latest expedition they started skiing/paddling across the newly frozen sea at 83°N in September. This area used to be covered by quite thick sea ice, but has open water to the south today. As the sun sets permanently and the polar night appears, the sea ice re-freezes, but is quite dynamic and easily breaks up into new leads, rafted floes, and larger pressure ridges. To see this up close and understand the practical difficulties and preparations that goes into planning and carrying out such a trip was indeed very interesting.



The presentation from **Sigrid Lien** was interesting at a very different level. The polar regions are so far away that many people only experience them through images. In the pre-photographic era larger expeditions took along artists to paint underway, and the paintings clearly present the polar explorers in some heroic fashion. This is also true for the first photographic plates from the late 1800's. Here, the explorers staged themselves and the locals in special ways to tell a story. Sometimes of the explorers' great courage handling the fierce polar nature, and at other times caring for the locals.

Sigrid Lien (Professor in History of art, photography & visual culture, UiB) and Børge Ousland (Polar Explorer) discussing Polar Masculinity.

*Text/photo: Lars H. Smedsrud.*

## PÅ TOKT MED KRISTINE BONNEVIE - GEOF 232

*Text & photos: Kjersti Daae*



We, the students in GEOF232 are traveling with the research ship Kristine Bonnevie for four days to learn practical application of the theory. We do this by sampling data from various weather/ocean parameters and collect our research in a joint report. We work as researchers on a ship: we obtain CTD-measurements of temperature, salinity, and oxygen, deploy drifters, and titrate oxygen water samples. We have day (04.00-12.00, 16.00-20.00) and night shifts (20.00-04.00, 12.00-16.00), where both late nights for the night shift and early mornings for the day shift are met with tired (but happy) faces. We enjoy the time on board and find it exciting and fun to see how a researcher's workday can be like.

The atmosphere is good and is fueled by yatzy and card games between the various measurements. We are grateful for the experience we get during the cruise and enjoy the remaining time!



## .....Meanwhile in Marineholmen

*Text & photo: Algot Peterson*



These days have been busy in the instrument lab and our facilities at Marineholmen. While applications are written, models are running, data analyzed and papers are published at GFI, others are preparing for the next big field campaign. A fully loaded container and then some more of instruments, equipment, and tools. Everything must be meticulously checked, tested, and packed. Will this frame fit on this buoy? Do these nuts have metric or imperial threads? Will the instruments be back from calibration before our shipping date? 2260m of Kevlar rope is measured and marked and spooled onto cable drums, ready for an anchor-first deployment in sea ice.

Anchored to the bottom and stretched out by buoyant spheres, all this equipment will form two long and densely equipped moorings on the Yermak Plateau reaching all the way up to a mere 17m from the surface. If the moorings sit too deep, we will miss important data from the surface mixed layer, if they are too shallow, we risk losing our instruments to the waves and the sea ice.

It's a game of large dimensions and big forces, sensitive equipment, precise measurements and calculations, small margins, and short deadlines. A challenging combination. Two moorings, an ocean glider and turbulence profilers are now heading for the Arctic Ocean (after another round of packing operations in Bremerhaven, Germany). Fingers are crossed for a safe and successful expedition for our gear, scientists, and technicians on board the RV Polarstern this summer!

## Forskningsfinansiering – Research funding

### UFO



Copyright © www.colourbox.com

Nettsiden "[Upcoming Funding Opportunities \(UFO\)](#)" har nylig blitt oppdatert/recently updated.

## Publikasjoner

Oversikt over registrerte publikasjoner ved Geofysisk institutt finner du i [crstin.uib.no](https://crstin.uib.no). Husk også å registrere alle nye publikasjoner der.

## Kurs, seminarer – Workshops, seminars



**Lørdag 23. april**

Kl. 11.00 – 18.00

## VÅRENS STORE FOLKEFEST

**Lørdag 23. april skal det myldre på Marineholmen i Bergen. Universitetet i Bergen har fylt 75 år, og vi er opptatt av de neste 75 årene. Velkommen til festival i området rundt ViLVite!**

**GRATIS INNGANG!**

Se mer: <https://www.opplevmarineholmen.no/>

## Bli med på Forskningsdagene

Forskningsdagene arrangeres fra 21. september - 2. oktober 2022. Meld interesse for å bidra under forskningsfestivalen!



Forskningsdagene (21.09.-02.10.22) er en årlig, nasjonal festival i regi av Norges Forskningsråd. I Bergen arrangeres Forskningsdagene som et samarbeid mellom byens sentrale forsknings- og utdanningsinstitusjoner der UiB er den største bidragsyteren. Forskningsdagene er en glimrende mulighet til å formidle forskning ut til et bredt publikum og gjøre UiB-forskningen bedre kjent - både lokalt, regionalt og nasjonalt.

Hovedtema i 2022 er "hav". Her har UiB mye spennende forskning å vise frem, og vi oppfordrer fagmiljøene til å la seg inspirere av temaet. Det er like fullt mulig og ønskelig med bidrag fra andre fagfelt og tema på Forskningsdagene i Bergen, på festivalen er det tradisjon for å vise bredde.

Les mer på: <https://www.uib.no/foransatte/17362/bli-med-p%C3%A5-forskningsdagene>

# Nyhetsbrev om karrieretilbud

UiB Ferd har etablert nyhetsbrev om karrieretilbud som yngre forskere kan melde seg på – mer info her:

<https://pahoyden.no/nyhetsbrev-om-karrieretilbud/118939>

## HMS, Personal, Velferd – HSE, HR, Social activity

[HMS-portal](#) – [Avviksmelding](#) - [Trening](#) - [Velferdstilbud](#)

Ledige stillinger:

### [To stillingar som research data manager ved Geofysisk institutt](#)

Geofysisk institutt - Søknadsfrist: 19. april 2022

### Geosupen: GFI's Social Hub

Geosupen is the umbrella for all social activities at GFI, where you can find updates and information for regular and one-off events. All activities, such as brewing, football, volleyball, Cake Tuesday, Dinner&Drinks, parties, and more, are run by dedicated students and colleagues at GFI who look forward to have you participate and contribute!



<https://geosupen.b.uib.no>

## Velferdstilbud til ansatte / Welfare

Here you will find the University welfare services for employees; [Welfare](#) | [Employee Pages](#) | [UiB](#)



GFI yoga class has started again! All staff and students are invited to enjoy a one-hour relaxing exercise and meditation, every Wednesday 14:45 – 15:45 at the West Wing lecture room. No need to register, just remember to bring your own yoga mat.

We have a yoga mailing list. If you would like to be on the list and get informed about the class, please send an email to [Mahaut.Vareilles@uib.no](mailto:Mahaut.Vareilles@uib.no)

