

## CALENDARS project outputs 2019

When	What	Title	Who	Where
01.02	Book chapter	“How climate change disrupts notions of natural hazard risk in institutional cultures”. Submitted for review	Scott Bremer, Paul Schneider, Bruce Glavovic	Oxford Research Encyclopaedia of Natural Hazard Risk
01.02	Presentation	“Re-learning the seasons, in Bangladesh and Bergen”	Scott Bremer	Faglig Pedagogisk day, UiB
15.02	Workshop	Citizen science weather sensor building workshop at Vimond, with contact person Ketil Moland Olsen. For the CALENDARS and CoCliServ projects	Scott Bremer Ketil Moland Olsen Martin Koch Roger Storvik	Vimond HQ Bergen
01.03	Website	CALENDARS project homepage set up on the UiB website	Sissel Småland Aarsheim Scott Bremer	<a href="https://www.uib.no/en/calendars-project">https://www.uib.no/en/calendars-project</a>
12.03	Presentation	“I understand what I can build and measure: citizens conducting science”	Scott Bremer	UiB Energy Lab seminar series
21.03	Presentation	“Measuring climatic variability in the places we live” – in the master’s course ‘Measuring Environmental Factors’ at the Bergen Architecture School, led by Nancy Couling	Scott Bremer	Bergen Architecture School
01.04	Presentation	“Citizen science in Bergen and Bangladesh: what are its impacts on people and governance?”	Scott Bremer	SVT internal seminar series
02.04	Report	“Portrait of a Climate City: Tracing the co-production of climate and/or weather narratives in Bergen”.	Eleanor Johnson	Internal SVT report
23.05	Presentation	“Studying Bergen's weather using citizen science”	Scott Bremer	Dept. of Meteorology, UiB
30.05	Presentation	“Portrait of a climate city: How climate change is changing the way Bergen interprets and adapts to its climate”	Scott Bremer, Werner Krauss, Arjan Wardekker, Juan Baztan, Charlotte Da Cunha & Jean-Paul Vanderlinden	European Climate Change Adaptation Conference (ECCA), Lisbon, 28-31 May
11.06	Workshop	Repair workshop for the citizen scientists with presentation by Joachim Reuder; 17.00 – 20.30	Elisabeth Schøyen Jensen Diana Wildschut Joachim Reuder	Bergen Makerspace

12.06	Presentation & workshop	Presentation titled “Studying Bergens weather using citizen science” followed by a citizen science weather sensor building workshop	Scott Bremer Diana Wildschut Ketil Moland Olsen	The Future of Meteorology symposium at Media City Bergen
16-31.07	Meetings	Meetings with people from diverse organisations to present the project and seek their feedback on how the project should develop, including: TCDC; a local kiwi-care group; Hauraki Iwi collective; Te Puri school, a local beekeeper; a commune; an artist collective.	Scott Bremer Bruce Glavovic Paul Schneider	Coromandel Peninsula field visit
31.07	Journal article	Article manuscript titled: ‘Portrait of a climate city: How climate change is emerging as a risk in Bergen, Norway’, submitted to the journal ‘Climate Risk Management’	Scott Bremer Eleanor Johnson Kjersti Fløttum Kyrre Kverndokk Arjan Wardekker Werner Krauss	Climate Risk Management
03-06.09	Guest researcher	Maurice Skelton (PhD candidate at ETH Switzerland) visited the CALENDARS team in Bergen.	Maurice Skelton Scott Bremer Elisabeth Schøyen Jensen	University of Bergen
07.09	Presentation	Presentation of the first conceptualisation of a CALENDARS project PhD thesis	Elisabeth Schøyen Jensen	Altonaer Stiftung für philosophische Grundlagenforschung, Hamburg
06.09	Presentation	Presented the CALENDARS project at an Environmental Humanities seminar, for Prof. Mike Hulme	Scott Bremer	University of Bergen
20-21.09	Science fair	A stand at the Bergen Science Fair (‘Forskningstorget’), visited by 2000 school children on Friday 20 <sup>th</sup> , and open to the public on Saturday 21 <sup>st</sup> . This was a manned stand titled ‘ <i>Build your own primstav</i> ’, presenting (i) traditional ‘primstavs’; and (ii) future seasonal conditions from climate science. We invited visitors to draw their own primstav of how they make sense of seasons and organise their year now. We had over 100 primstavs drawn and displayed.	Scott Bremer Elisabeth Schøyen Jensen Sissel Aarsheim Småland Janne Bøe	Bergen
23.09	Presentation	The UiB ‘Momentum’ Programme equips young academics in researcher or associate professor positions at the University to raise their academic profile and strive for excellent science. Scott Bremer gave a presentation of the CALENDARS project as an example of excellent science.	Scott Bremer	Solstrand hotel, Os

26.09	Presentation	Presentation titled 'How to re-write the calendar for Bergen's new seasons' at the 'Forskningsdagene UNG' event, presentations to 400 school students from around Bergen to promote science as a career option.	Scott Bremer	Westland Highschool, Bergen
01-16.10	Meetings	Meetings with people from diverse organisations to present the project and seek their feedback on how the project should develop, including: Bergen municipality; Havråtun farm museum; The University Gardens; Skalmarin shellfish; the Faculty of Art, Music and Design.	Scott Bremer Elisabeth Schøyen Jensen	Bergen field visits
21-25.10	Autumn School	The Autumn School 'Co-production of Climate Adaptation Research' for 20 early career researchers; run by the Centre for the Study of the Sciences and the Humanities (SVT) at UiB in collaboration with other organisations.  Partly designed around methods and content from CALENDARS.	Scott Bremer	University of Bergen NORCE Climate Centre for Climate and Energy Transformation Vestland County Council Norwegian Centre for Sustainable Adaptation.
30.10	Presentation	Lecture at the Norwegian Research School of Environmental Humanities, titled: 'Maintaining scientific quality: peer review in co-produced research'.	Scott Bremer	Norwegian Research School of Environmental Humanities (NoRS-EH) hosted by the University of Oslo
05.11	Presentation	Lecture for the master's Course on Climate Change Ethics at the Norwegian School of Economics titled 'Making climate change meaningful for us'. Using CALENDARS findings.	Scott Bremer	Norsk Handels Høyskole (NHH), Bergen
15.11	Sister project	Notified that a sister project to CALENDARS called CANALS was financed. CANALS is a prestigious EU-financed Marie Curie Fellowship that enables Dr. Simon Meisch to spend two years in Bergen studying water institutions cultures and infrastructures, in parallel (and some overlap) with CALENDARS. Meisch will begin March 2021	Scott Bremer Simon Meisch	University of Bergen
02.12	Workshop	Repair evening for weather stations at Marineholmen maker space, and discussion of findings associated with citizen science.	Scott Bremer Elisabeth Schøyen Jensen	Bergen Makerspace
18.12	Presentation	Presentation of the citizen science work to the UiB Rectorate	Scott Bremer Elisabeth Schøyen Jensen	University of Bergen

## CALENDARS project outputs 2020

When	What	Title	Who	Where
22-23.02.2020	Workshop	Primstav stand/workshop at exhibition by Eamon O’Kane – ‘Fröbel Studio: Institutt for Kreativitet’	Elisabeth Schøyen Jensen	Norwegian Sculptors Society, Oslo
10.03.2020	Presentation	Invited to Speak at the ETH Risk Centre Seminar Series, in Zurich. Presentation titled: ‘Climate Change and Amplified Representations of Natural Hazards in Institutional Cultures’.	Scott Bremer	ETH Risk Centre, Zurich
20.03.2020	Diaries	The CALENDARS team has kept personal diaries of experiencing seasons while in isolation at home. Some of these are published on the Website.	Whole team	CALENDARS Website
27.03.2020	Presentation	Presentation to the Centre of Climate and Energy Transformation seminar series, titled, ‘How climate change is transforming our institutions: using concepts of institutional cultural change’.	Scott Bremer	Centre of Climate and Energy Transformation (CET), University of Bergen.
03.04.2020	Special Issue	A special issue in Climate Risk Management (10 contributions) titled ‘How narratives of change influence climate risk governance’	Edited by: Scott Bremer Werner Krauss Diana Wildschut	Climate Risk Management
03.04.2020	Journal article	‘Portrait of a climate city: How climate change is emerging as a risk in Bergen, Norway’	Scott Bremer Eleanor Johnson Kjersti Fløttum Kyrre Kverndokk Arjan Wardekker Werner Krauss	Climate Risk Management: SI ‘Narratives of Change’
03.04.2020	Journal article	‘Local narratives of change as an entry point for building urban climate resilience’ <a href="https://doi.org/10.1016/j.crm.2020.100223">https://doi.org/10.1016/j.crm.2020.100223</a>	Benedikt Marschütz Scott Bremer Hens Runhaar Dries Hegger Heleen Mees Joost Vervoort Arjan Wardekker	Climate Risk Management: SI ‘Narratives of Change’

03.04.2020	Journal article	'The role of place-based narratives of change in climate risk governance' <a href="https://doi.org/10.1016/j.crm.2020.100221">https://doi.org/10.1016/j.crm.2020.100221</a>	Werner Krauß Scott Bremer	Climate Risk Management: SI 'Narratives of Change'
27.06.2020	Workshop	Workshop for designing and constructing a contemporary wooden primstav for Bergen, at Aldea atelier - with artists Magnhild Øen Nordahl and Cameron MacLeod. 7 participants	Scott Bremer Elisabeth Schøyen Jensen	Aldea atelier, Bergen
08.20.2020	Presentations	School year 2020-2021 communicating core aspects of calendars research project and social science research to seventh grade school class across seven different talks á 15 minutes (on CALENDARS project, on primstav, on the Hawthorne effect, on comparative methods and Teddy Diaries Project, on the French Revolutionary calendar, on research design and on analysis)	Elisabeth Schøyen Jensen	Two Bergen schools
17.09.2020	Presentation	Presentation titled 'Careful transformation of cities' institutional cultures at a seminar on climate adaptation organized by the SVT at the University of Bergen	Scott Bremer	SVT, University of Bergen
03.10.2020	Blog	Blog on the CALENDARS webpage on the primstav workshops	Elisabeth Schøyen Jensen	CALENDARS website
15.10.2020	Journal article	Grand challenges for climate risk management	Lemos, M. C., Klenk, N., Kirchhoff, C. J., Morrison, T., Bremer, S., Fischer, A. P., ... & Olwoch, J. M.	Frontiers in Climate
11.20.2020	CALENDARS homework template	Produced 'our CALENDAR' template with designer Edgar Melitão to be used as seasonal timelining tool for participants during Coromandel-based research	Edgar Melitão Paul Schneider Kerstie van Zandvoort	Thames, Coromandel, NZ
11.20.2020	Conference Abstract	Submitted abstract on NZILA – 2021 Conference: Radical Reorientation, Te Rangitāmiro to present on preliminary findings of PhD Coromandel Calendars Research	Kerstie van Zandvoort	Tauranga, New Zealand
02.11.2020	Citizen Science	Installation of a weather station at Thames High School	Paul Schneider	Thames
15.12.2020	Citizen Science	Installation of a weather station at Te Puru School	Paul Schneider	Te Puru

12.12.2020	Pilot Interview	Semi-structured interviews with proprietor of Coastlands Native Nursery as key supplier of Dune Restoration plantings for participant conservation groups for PhD Coromandel research	Kerstie van Zandvoort	Kuaotunu Peninsula, Coromandel, NZ
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## CALENDARS project outputs 2021

When	What	Title	Who	Where
Monthly in 2021	Photo Record	Maintaining a monthly photographic record of public beaches that are the subject of the Coromandel PhD research.	Kerstie van Zandvoort	Kuaotunu Peninsula, Coromandel, NZ
31.01. – 01.02.2021	Workshop/ Walkshop	Wilderness trip with Thames High School teacher to map out seasonal engagement with students over the course of the year	Paul Schneider	Coromandel Area
09.02.2021	Reflexive engagement	How can CALENDARS meaningfully engage with local Māori?	Paul Schneider and members of the Hauraki Collective of Iwi (Maori tribes)	Colville
10.02.2021	Presentation	Presentation at a session in Day Zero of the UiB organised SDG conference, with the session titled 'Questioning co-production of knowledge', with Coleen Vogel and Håvard Haarstad	Scott Bremer	University of Bergen SDG conference 10-12 Feb 2021
17.02.2021	Workshop	Engagement with the Coromandel Writers Group and setting up work on creative writing workshops on seasons	Paul Schneider	Coromandel Town
15.02.2021	Focus group	Engagement with Thames High School group	Paul Schneider	Thames Area
18.02 & 27.05.2021	Workshop	Primstav WS at Aldea for local primary school class across two days with 19 school participants	Elisabeth Schøyen Jensen	A Bergen primary school
03.03.2021	Blog Post	To wear or not to wear: The seasonal culture of footwear vs. dress codes on the Coromandel	Paul Schneider	CALENDARS website
05.03.2021	Popular science: newspaper	Article in Aften-Posten by Guri Oppegård about Folkeforskning (Citizen Science), interviewing Scott Bremer based on the CALENDARS work	Scott Bremer	Aftenposten newspaper

15-16.03.2021	Presentation	Participate in the on-line symposium 'Making Climate Futures' organised by Wim Carton, Eva Lövbrand and Silke Beck	Scott Bremer	Lund University
17.03.2021	Workshop	Engagement with the Coromandel Writers Group	Paul Schneider	Coromandel Town
21.03.2021	Blog post	'Bio' diversity in the Arboretum	Scott Bremer	CALENDARS website
26.03.2021	Focus group	Seasons below the surface: Marine Reserve snorkel field trip with the Thames High School group	Paul Schneider	Hahei
14.04.2021	Special Issue	Special Issue on 'High-Quality Knowledge for Climate Adaptation: Revisiting Criteria of Credibility, Legitimacy, Salience, and Usability' with 10 contributions	Edited by: Scott Bremer Marta Bruno Soares Marina Baldissera Pacchetti Arjan Wardekker Jeroen van der Sluijs	Frontiers in Climate
14.04.2021	Journal article	Quality Assessment in Co-developing Climate Services in Norway and the Netherlands	Bremer, S., Wardekker, A., Schøyen Jensen, E. & van der Sluijs, J.	Frontiers in Climate
14.04.2021	Workshop	Engagement with the Coromandel Writers Group	Paul Schneider	Coromandel Town
04-05.2021	Focus Groups	April and May -five group interviews a one hour with students at local high school (in total 11 participants)	Elisabeth Schøyen Jensen	A Bergen High School
26.04.2021	Blog post	Making the gardens 'green'	Scott Bremer	CALENDARS website
05.05.2021	Workshop	Workshop with scientists at the newly opened Climate Futures Centre, using a soft systems mapping methodology to question their representations of science-policy-practice interface, in providing seasonal forecasts to farmers	Scott Bremer Tarje Wanvik Birgit Kopainsky	Climate Futures Centre
07.05.2021	Interview	Reflexive interview with gardener at Arboretum	Scott Bremer	Bergen Arboretum
11.05.2021	Presentation	Presentation at UiB Global seminar series, titled, 'Portrait of a climate city: How climate change is emerging as a risk in Bergen'	Scott Bremer	UiB Global
10.05.2021	Interview	Reflexive group interview with scientists at Climate Futures	Scott Bremer	Climate Futures
19.05.2021	Workshop	Engagement with the Coromandel Writers Group	Paul Schneider	Coromandel Town
11.05.2021	Walkshop	What marks mid-winter in the Coromandel Bush? Engagement with Te Puru School students.	Paul Schneider and Kerstie van Zandvoort	

18.05.2021	Hunting Expedition	What does duck shooting mean for a group of hardened hunters?	Paul Schneider	Hauraki Plains
25.05.2021	Blog post	Spring is wild garlic, but is anyone eating it?	Scott Bremer	CALENDARS website
26.05.2021	Blog post	Telling times in the Arboretum	Scott Bremer	CALENDARS website
27.05.2021	Workshop	How do we celebrate fire in winter? Blacksmithing workshop with Thames High School students	Paul Schneider	Thames High School
28.05.2021	Journal article	“How far can we extend peer communities? Appraising tacit knowledges of climate as post-normal science”	Simon Meisch Scott Bremer Mark Thomas Young Silvio Funtowicz	Paper submitted to Futures VSI:PNS 30 years on
03.06.2021	Interview	Reflexive group interview with scientists at Climate Futures	Scott Bremer	Climate Futures
09.06.2021	Walkshop	What marks mid-winter in the Coromandel Bush? Engagement with Te Puru School students.	Paul Schneider and Kerstie van Zandvoort	Te Puru
14.06.2021	Book chapter	“A water culture perspective for food security”	Simon Meisch Scott Bremer	Hanna Schübel and Ivo Wallimann-Helmer (eds.) Justice and food security in a changing climate, Wageningen Academic Publishers 2021
16.06.2021	Workshop	Engagement with the Coromandel Writers Group	Paul Schneider	Coromandel Town
22.06.2021	Pilot Joint Interview	Interviewed joint members of Mercury Bay Environment Trust as part of CALENDARS Coromandel PhD Research	Kerstie van Zandvoort	Whitianga, Coromandel, NZ
24.06.2021	Conference presentation	“A water culture perspective for food security”	Simon Meisch Scott Bremer	EurSafe Conference 2021, Fribourg, zoom,
30.06-01.07.2021	Mid-winter survival camp with High School students	How do experience winter on the Coromandel and what does it feel like to camp in the wild?	Paul Schneider and Kerstie van Zandvoort	Thames area
07.2021	Timelapse video recordings	Time-lapse recordings of planting bees taken as part of seasonal Coastcare group activities	Kerstie van Zandvoort	Kuaotunu Peninsula, Coromandel, NZ
28.07.2021	Workshop	Engagement with the Coromandel Writers Group	Paul Schneider	Coromandel Town



08.21-ongoing	Pilot Walking Interviews	Trialing pilot interviews using GoPro cameras with participants along conservation traplines for various beaches and reserves on the Kuaotunu Peninsula	Kerstie van Zandvoort	Kuaotunu Peninsula, Coromandel, NZ
03.08.2021	Walkshop	How can we tell what season we are in? Engagement with Te Puru School students.	Paul Schneider	Te Puru
11.08.2021	Conference presentation	Conference oral presentation titled: 'Mapping seasonal change using primstavs'	Elisabeth Schøyen Jensen Scott Bremer Sissel Småland Aarsheim	Climate Change Temporalities: 'an on-line conference on humanistic approaches to climate change' 11-13 Aug, organized at the University of Bergen
08.2021	Reflexive methods diary	Record of reflections on research methods for the course of fieldwork as basis of refining these	Kerstie van Zandvoort	Coromandel, NZ
19.08.2021	Journal article	Article accepted for publication and in press, titled: <i>Beyond rules: how institutional cultures and climate governance interact</i>	Bremer, S., Glavovic, B., Meisch, S., Schneider, P. & Wardekker, A.	WIRES Climate Change
22-23.09.2021	Presentation	Presentation titled 'A change of climate in institutional cultures' at the Symposium on Cultures of Climate Adaptation, organised by the Global Climate Forum	Scott Bremer	Symposium on Cultures of Climate Adaptation, organised by the Global Climate Forum
21.10.2021	Presentation	Presentation titled 'The Primstav exercise - an engaging and creative way to draw, think and talk about local seasons and climate adaptation' at the Edinburgh Environmental Humanities Network seminar series 'Phenomenal time: perceiving ecological temporalities' organised by Michelle Bastian	Elisabeth Schøyen Jensen	Edinburgh Environmental Humanities Network seminar series 'Phenomenal time: perceiving ecological temporalities'
15.12.2021	Book Chapter	'The Times They Are a-Changin'' but 'The Song Remains The Same': Climate change narratives from the Coromandel Peninsula, Aotearoa New Zealand	Paul Schneider and Bruce Glavovic	"Cooling Down" edited by T.H. Eriksen et al.

## CALENDARS project outputs 2022

When	What	Title	Who	Where
24.01.2022	Presentation	'Do we still live by the seasons? Which seasons?' On-line presentation to the Young Academy of Europe Seminar series	Scott Bremer	Young Academy of Europe on-line seminar series
01.2022	Journal article	Meisch, S., Bremer, S., Young, M.T., Funtowicz, S. (2022): Extended Peer Communities: Appraising the contributions of tacit knowledges in climate change decision-making. Futures 135, 102868. <a href="https://doi.org/10.1016/j.futures.2021.102868">https://doi.org/10.1016/j.futures.2021.102868</a>	Simon Meisch Scott Bremer Mark Young	Futures (Journal) Jan 2022
11.02.2022	Methods workshop	A method workshop for those interested in working with time in groups and communities\ and explore processes and methods to collectively understand the pressures and possibilities of time. Open to the CALENDARS team but also others  This event brought together over 100 participants interested in working with time in groups and communities and explore processes and methods to collectively understand the pressures and possibilities of time. We explored approaches to discussing, communicating and questioning time with others and asked the question 'we need different times, but do we have the methods to unfold them?'	Scott Bremer Elisabeth Schøyen Jensen	Online Zoom platform, hosted from the University of Bergen
22-23.02.22	Methods workshop	A workshop on qualitative social science methods, including interviews and participant observation, sponsored by CALENDARS and CANALS: hired Ursula Offenberger as an expert in qualitative methods at Tübingen University. Open for the CALENDARS team and others from the Centre for the Study of the Sciences and the Humanities (SVT).	Scott Bremer Simon Meisch Elisabeth Schøyen Jensen	Centre for the Study of the Sciences and the Humanities (SVT), University of Bergen
25.03.22	Presentation	Time flies like an arrow; fruit flies like a banana: <a href="https://www.uib.no/svt/152867/time-flies-arrow-fruit-flies-banana">https://www.uib.no/svt/152867/time-flies-arrow-fruit-flies-banana</a> Public presentation and evaluation of PhD essay in the Philosophy and Ethics of the Social Sciences at the Centre for the Study of the Sciences and the Humanities (SVT).	Elisabeth Schøyen Jensen	SVT University of Bergen

02.2022	Book chapter	Schneider, P. & Glavovic, B. (2022) “The times they are a-changin’” but “The song remains the same”: Climate change narratives from the Coromandel Peninsula, Aotearoa New Zealand. In S. M. Hoffman, T. H. Eriksen & P. Mendes (eds.) ‘Cooling down: Local responses to global climate change’. Berghahn: Oxford (p. 167 – 200)	Paul Schneider Bruce Glavovic	In S. M. Hoffman, T. H. Eriksen & P. Mendes (eds.) ‘Cooling down: Local responses to global climate change’. Berghahn: Oxford (p. 167 – 200)
04.03.2022	Bachelor’s project	EXPLORING PERCEPTIONS OF SEASONAL CALENDARS IN A TIME OF ENVIRONMENTAL CHANGE	Eleni Bellas Alexander Hayden Roe Hendrick Anne Lapsey	Submitted to the Faculty of WORCESTER POLYTECHNIC INSTITUTE in partial fulfillment of the requirements for the degree of Bachelor of Science
04.03.2022	Presentation	‘Changing seasonality: Working in different co-production modes’. Online presentation to the Alaska Climate Adaptation Science Center skill-building webinar series at the University of Alaska Fairbanks.	Scott Bremer	On-line: Alaska Climate Adaptation Science Centerskill-building webinar series at the University of Alaska Fairbanks
31.03.2022	Presentation	‘The Beeware pilot project’ – presented to the NORCE Climate Risk Group internal seminar series	Manuel Hempel Etienne Dunn-Sigouin	NORCE Climate Risk Research Group seminar series
04.2022	Journal article	Bremer, S., Wardekker, A., Baldissera Pacchetti, M., Bruno Soares, M., & van der Sluijs, J. (2022). High-Quality Knowledge for Climate Adaptation: Revisiting Criteria of Credibility, Legitimacy, Salience, and Usability. <i>Frontiers in Climate</i> , 4, 905786.  (Lead editor of a special issue (‘topic’) in <i>Frontiers in Climate</i> (10 contributions): ‘High-Quality Knowledge for Climate Adaptation: Revisiting Criteria of Credibility, Legitimacy, Salience, and Usability’ Bremer, Bruno Soares, Baldissera Pacchetti, Wardekker, van der Sluijs. Recognised as having some of the highest views in the journal)	Scott Bremer Arjan Wardekker	<i>Frontiers in Climate</i> , 4, 905786

04.04.2022	Presentation	'Whose seasons? BeeWare's study of practice and expertise setting a rhythm to the beekeeping year'. Presentation to the Centre for the Study of the Sciences and Humanities' internal seminar series	Scott Bremer Simon Meisch	Centre for the Study of the Sciences and Humanities internal seminar series, University of Bergen
09.04.2022	Presentation	Presenting 'The Norwegian primstav and its characteristics' – an on-line presentation for a social group creating primstavs in Minnesota	Elisabeth Schøyen Jensen	On-line presentation for a Minnesota social group working with the Primstav
23.04.2022	Newspaper article	'A man for all seasons'. Interview with journalist Joanna Wane, published in the New Zealand Herald newspaper (read by 2.26 million New Zealanders)	Joanna Wane (with Scott Bremer)	New Zealand Herald Saturday Supplement
23.04.2022	Presentation	'Save the Seasons': seasonal frameworks as cultural institutions'. Presentation at the symposium: ' <i>Commoning, Appropriation &amp; Dispossession: Heritage as Claim-Making</i> ', Panorama Hotel Sotra 23-24 April 2022	Scott Bremer	Symposium: ' <i>Commoning, Appropriation &amp; Dispossession: Heritage as Claim-Making</i> ', Panorama Hotel Sotra 23-24 April 2022
03-04.05.2022	Scientific meeting	Assembled the CALENDARS team and invited guests at the Solstrand Hotel to discuss the project's aims and fruitful avenues for research. Goal was to check on and refine the direction of the project, and assemble ideas for an edited book	Whole team + Institutional collaborators + 15 invited guests	Solstrand hotel, Os
04.04.2022	Public symposium	Public symposium held at Christinegaard in Bergen with nine talks from invited guests, and showing of the Virtual Reality simulation under construction at Aldea (Bergen) and the documentary film at Citizen Creative (New Zealand)	Whole team	Christinegaard in Bergen
05.05.2022	Presentation	'Presenting Climate Futures and Beeware', at the Pollination Day meeting in Hardanger.	Manuel Hempel Etienne Dunn-Sigouin	Pollination Day, Hardangerfjord
06.05.2022	Presentation	Presentation at the Centre for Climate and Energy Transformation seminar on 'Temporal Rhythms' (UiB) 6.5.2022 titled 'Whose seasons?'	Scott Bremer	Centre for Climate and Energy Transformation seminar on 'Temporal Rhythms' (UiB)
24.05.2022	Presentation	Presentation at the UiB Environmental Humanities research group seminar series 24.5.2022 titled 'Who's in charge of the seasons at the Arboretum?'	Scott Bremer	UiB Environmental Humanities research group seminar series. University of Bergen

01.06.2022	Popular science publication	'Climate Change Research Project Taps into Experience of Coastcare Volunteer's', published on the Waikato Regional Council's webpage in New Zealand	Kerstie van Zandvoort	Waikato Regional Council's webpage in New Zealand
08.06.2022	Conference paper	'How climate policy challenges the seasonal calendars guiding Bergen arboretum' Paper presented as part of the Workshop titled 'Governing a sustainable transformation' at the Nordic Environmental Social Science conference 2024, University of Gothenberg 7-9 June 2022	Scott Bremer	Nordic Environmental Social Science conference 2024, University of Gothenberg 7-9 June 2022
08.2022	Journal article	Bremer, S., Bremer, A., Iversen, L., Soares, M. B., & van der Sluijs, J. (2022). Recognising the social functions of climate services in Bergen, Norway. <i>Climate Services</i> , 27, 100305.	Scott Bremer	Climate Services, 27, 100305
09.2022	Book chapter	'Changing beekeeping seasons in Vestland, Norway' in (eds.) D. Bruce & A. Bruce, 'Transforming food systems: ethics, innovation and responsibility' Wageningen Academic Publishers: Wageningen (p. 69-75)	Simon Meisch Scott Bremer Manuel Hempel Etienne Dunn-Sigouin	D. Bruce & A. Bruce, 'Transforming food systems: ethics, innovation and responsibility' Wageningen Academic Publishers: Wageningen (p. 69-75)
09.2022	Popular science publication	'Changing climate, changing beekeeping'. A magazine article published in the European Society for Agricultural and Food Ethics (EurSafe) bi-annual newsletter	Simon Meisch Scott Bremer Manuel Hempel Etienne Dunn-Sigouin	European Society for Agricultural and Food Ethics (EurSafe) bi-annual newsletter
30.09.22	Presentation	'Guided by current climate concern in Bergen'. Presentation to the Climate Department of the Municipality of Bergen, scientific seminar series	Scott Bremer	Climate Department of the Municipality of Bergen
07.10.2022	Presentation	'From studying seasons to studying senses – learning to be affected' in everyday urban life.'	Elisabeth Schøyen Jensen	Edinburgh University Environmental Humanities Network Lab
22.10.2022	Public event	Stand at the Norsk Birøktag Vossamøtet 21-23 October 2022, inviting beekeepers to draw their bee-keeping season, and disseminating information on seasonal forecasts.	Scott Bremer Etienne Dunn-Sigouin	Vossamøtet, Voss, October 2022
31.10.2022	Presentation	'Wake up and smell the coffee!- 'learning to be affected' in everyday urban life?'	Elisabeth Schøyen Jensen	SVT, UiB
11.11.2022	Research workshop	Workshop presenting the CALENDARS research to stakeholders at Bergen Arboretum, with primstav drawing exercises to identify	Scott Bremer Elisabeth Schøyen Jensen	Litteraturhuset, Bergen

		common reference points and critically reflect on changes to seasonality. Held at Litteraturhuset.		
21.11.2022	Publication	Transformational adaptation in Aotearoa New Zealand: Towards a critical framing of coastal adaptation governance, in Hendtlass, C. et al., (Eds.) Coastal Adaptation: Adapting to coastal change and hazard risk in Aotearoa New Zealand, Special Publication 5, New Zealand Coastal Society, pp 8-12, <a href="https://www.coastalsociety.org.nz/media/view/publications/special-publication-5-coastal-adaptation/">https://www.coastalsociety.org.nz/media/view/publications/special-publication-5-coastal-adaptation/</a> .	Bruce C. Glavovic	New Zealand Coastal Society
25.11.2022	Research workshop	Workshop presenting the CALENDARS research to Vestland beekeepers, with circular calendar templates used to map common seasonal reference points and periods. Held at Kulturhuset.	Simon Meisch Scott Bremer Manuel Hempel Etienne Dunn-Sigouin	Kulturhuset, Bergen
12.2022	Book chapter	Baztan, J., Bremer, S., Da Cunha, C...Zhu, Z. (2022) Chapter 18: Local representations of a changing climate. In (ed.) T. Letcher 'Water and Climate Change: Sustainable Development, Environmental and Policy Issues. Elsevier: Amsterdam	Scott Bremer	In (ed.) T. Letcher 'Water and Climate Change: Sustainable Development, Environmental and Policy Issues. Elsevier: Amsterdam

## CALENDARS project outputs 2023

When	What	Title	Who	Where
01.2023	Book chapter	Bremer, S. & Johnson, E. (2022) Careful transformation of cities' institutional cultures. In H. Haarstad, J. Grandin, K. Kjærås & E. Johnson (eds.) Sustainability at Speed: Pathways through the climate emergency. UCL Press: London (p. 83-92).	Scott Bremer	In H. Haarstad, J. Grandin, K. Kjærås & E. Johnson (eds.) Sustainability at Speed: Pathways through the climate emergency. UCL Press: London
16.01 – 04.02.2024	Intensive team collaboration in NZ	A three-week period when Scott Bremer and Mathias Venning worked closely with Paul Schneider and Kerstie van Zandvoort in the Coromandel, visiting the case studies and meeting local contacts, and working on publications. They worked daily at Kerstie's rented office, and stayed in a nearby rented house	Scott Bremer Mathias Venning Paul Schneider Kerstie van Zandvoort	Thames, Coromandel Peninsula

03.2023	Journal article	Wardekker, A. (2023). Building climate resilience in deltas amid uncertainty and surprise. <i>One Earth</i> , 6(3), 200-204.	Arjan Wardekker	<i>One Earth</i> , 6(3), 200-204
03.2023	Journal article	Bremer, S. & Schneider, P. (Under review) How seasonal cultures shape adaptation on Aotearoa-New Zealand's Coromandel Peninsula. <i>Global Environmental Change</i>	Scott Bremer Paul Schneider	<i>Global Environmental Change</i> (Under review)
02.03.2023	Interview	“Ein innvending mot folkeforsking går stadig igjen“	Scott Bremer	Forskerforum
04.2023	Journal article	Bremer, S., Stiller-Reeve, M., Mamnun, N., & Lazrus, H. (2023). Co-producing representations of summer rainfall in Bangladesh. <i>Regional Environmental Change</i> , 23(2), 60.	Scott Bremer	<i>Regional Environmental Change</i> , 23(2), 60.
04.2023	Journal article	Bremer, S. et al. ‘Changing seasonality: recalibrating institutions’ seasonal calendars’ Submitted to <i>Ambio</i> , and major revisions required	Whole team	<i>Ambio</i> (Under review)
04.2023	Journal article	Wardekker, A., S. Nath, T.U. Handayaniingsih (2023). The interaction between cultural heritage and community resilience in disaster-affected volcanic regions. <i>Environmental Science &amp; Policy</i> , 145, 116-128.	Arjan Wardekker	<i>Environmental Science and Policy</i>
17.04.2023	Conference paper	‘Seasons in the city: How can municipalities adapt to shifting patterns of seasonal rhythms’. Plenary talk given at the Nordic Climate Change Adaptation conference in Reykjavik, Iceland	Scott Bremer	Nordic Climate Change Adaptation conference in Reykjavik, Iceland 17-18 April 2023
26.04.2023	Panel	“Meeting Grand Challenges Together: actionable knowledge through collaboration in research and innovation”	Scott Bremer	University of Bergen
28.04.2023	Seminar	‘Engaging communities in studying environmental change’ A seminar organised at the Centre for the Study of the Sciences and Humanities – hosted by Scott Bremer and convening Anna Steynor, Nicole Klenk and Maud Borie	Scott Bremer (with Anna Steynor, Nicole Klenk and Maud Borie)	Centre for the Study of the Sciences and Humanities at the University of Bergen
05.2023	Research Workshop	Workshop hosted by Kerstie van Zandvoort, to present findings to the Coastcare Groups and other stakeholders she has worked with and explore ways for integrating a regard for temporal rhythms in coastal governance policy.		
09.05.2023	Conference paper	‘How seasonal cultures shape adaptation on Aotearoa-New Zealand's Coromandel Peninsula’ – presented at the Living with Climate Change conference, Bergen 8-9 May 2023	Scott Bremer & Paul Schneider	Living with Climate Change conference, University of Bergen 8-9 May 2023
04.06.2023	Public event	Scott Bremer presented the wooden primstav designed by Arboretum staff that participated in the workshop in	Scott Bremer	Bergen Arboretum's Open Day

		November 2022, at the annual public open day. Had a stand with primstavs and other information		
28.06.2023	Newspaper article	‘Ein Weiter-So nicht mehr möglich’ in Reutlinger General-Anzeiger	Simon Meisch	Reutlinger General-Anzeiger 28.6.2023
04.07.2023	Presentation/ Public event	Presentation of CANALS and CALENDARS project results and lessons at Reutlingen city council, committee for construction, traffic and environment.	Simon Meisch	Reutlingen city council – City Hall
24.07.2023	Presentation/ Public event	Project presentation and public plenary discussion, at ‘Stadt vs. Klima. How to nachhaltige Entwicklung’, organised by the Tübingen Green Party	Simon Meisch	Tübingen, Haagtorplatz
07.2023	Journal Article	Wardekker, A., Nath, S., & Handayaningsih, T. U. (2023). The interaction between cultural heritage and community resilience in disaster-affected volcanic regions. <i>Environmental Science &amp; Policy</i> , 145, 116-128.	Arjan Wardekker (and colleagues)	Environmental Science and Policy
09.08.2023	Conference paper	‘Practicing the beekeeping season in Western Norway.’ Presented at a CALENDARS session at the Life Times Conference, 9-11 August, Oslo, Norway  CALENDARS organized a panel at the Conference titled ‘Seasonality’, where papers being prepared for the Special Issue in Time and Society were presented.	Scott Bremer (with Simon Meisch, Manuel Hempel, Etienne Dunn-Sigouin)	Life Times conference, Oslo, 9-11 August 2023
09.2023	Art exhibition	“A path is a thought stretched out in time and space”	Arne Skaug Olsen	Bergen Arboretum
01.09.2023	Conference paper	‘Practicing the beekeeping season in Western Norway.’ Presented at the session titled ‘Seasonal culture: elements of change’ at the Royal Geographical Society annual conference, Imperial College London 29.8 – 1.9	Scott Bremer (with Simon Meisch, Manuel Hempel, Etienne Dunn-Sigouin)	Royal Geographical Society annual conference, Imperial College London 29.8 – 1.9
04-05.09.2023	PhD school	Co-organising the PhD school titled: ‘Planting the Environmental Humanities – theories and methods’, hosted by the Norwegian Researcher School in Environmental Humanities (NoRS-EH), and held at the University of Oslo. Incorporating lessons from CALENDARS in several sessions	Scott Bremer	PhD school titled: ‘Planting the Environmental Humanities – theories and methods’, hosted by the Norwegian Researcher School in Environmental Humanities (NoRS-EH), and held at the University of Oslo



11-12.09.2023	Public symposium	A public scientific symposium being held at the Bergen Arboretum and Fana folkehøyskole, over two days, comprising scientific talks combined with a tour of an art exhibition, a premier showing of the film 'Season', and a workshop on the use of Virtual Reality and film with research	Whole team	Bergen Arboretum and Fana folkehøyskole
12.09.2023	Documentary film	James Muir of Citizen Creative in New Zealand has filmed and produced a documentary film following the work of the CALENDARS researchers in New Zealand, titled 'Season'. It will be screen at a public symposium in Bergen and submitted to diverse film festivals	James Muir	Open access on-line
30.09.2023	Special Issue of journal articles	<p>CALENDARS has organized a special issue in the journal Time and Society, titled 'Contesting seasonal orders: polyrhythmic seasons in a time of change'. All submissions are due by the end of September 2023. Three articles are (co-)authored by CALENDARS team members:</p> <p>Seasonal misalignment between scales: National decision-making for local Tanzanian farmers <i>Mathias Venning</i></p> <p>Practicing the beekeeping season in Western Norway <i>Scott Bremer, Simon Meisch, Etienne Dunn-Sigouin, Manuel Hempel</i></p> <p>Problematizing seasonality from the perspective of El Niño <i>Reidar Staupe-Delgado, Kerstie van Zandvoort &amp; Scott Bremer</i></p>	<p>Scott Bremer Simon Meisch Manuel Hempel Etienne Dunn-Sigouin Mathias Venning Kerstie van Zandvoort</p>	Journal Time and Society
10.2023	Book chapter	Bremer, S. (2023) Recalibrating Seasonal Cultures with Communities. In I. Curulli & D. Ikiz Kaya (eds.) Heritage Education for Climate Action. ISTE & Wiley. London	Scott Bremer	In I. Curulli & D. Ikiz Kaya (eds.) Heritage Education for Climate Action. ISTE & Wiley. London

11.10.2023	Conference paper	'How seasonal cultures shape adaptation on Aotearoa – New Zealand's Coromandel Peninsula' presented at the Building Bridges conference of Academia Europaea, in Munich 10-11 October	Scott Bremer	Building Bridges conference of Academia Europaea, in Munich 10-11 October
18.10.2023	Presentation	Co-creation essentials"	Scott Bremer	NORCE-organized mini-workshop
19.-20.10.2023	Presentation	"Expert science-policy work and food security: Work of the Academia Europaea Environmental Taskforce"	Scott Bremer	The Antropocene: from boundaries to bonds" Wroclaw, Poland.
31.10 – 09.11.2023	PhD school	The 10-day school, which is co-organised with the CONFER EU project, will be held at the Kongoni Lodge in Naivasha, Kenya from 31 October to 9 November 2023. CATER aims to create world-leading transdisciplinary cooperation for mutual learning between African and European contexts, linking science to action, and building leadership and confidence in students, early-career researchers, practitioners, and businesses on the frontlines of climate action. CALENDARS features heavily in the projects design	Scott Bremer	Kongoni Lodge in Naivasha, Kenya
11.2023	Edited book volume	The CALENDARS project has produced an edited book that has a production plan to be published in November 2023, titled 'Changing Seasonality: How communities are revising their seasonal calendars', and comprising 35 chapters from different authors. Several of these chapters have been written by CALENDARS team members: <ul style="list-style-type: none"> <li>• Bremer &amp; Wardekker – When seasons no longer hold</li> <li>• Schøyen Jensen – Thinking with the primstav today</li> <li>• Sandré et al. - While waiting for the sea ice: stories of changes from Ittoqqortoormiit (Kalaallit Nunaat)</li> <li>• Bremer - Telling the year by the rugby season, and getting confused</li> <li>• Schneider – How seasonal is gin?</li> </ul>		

		<ul style="list-style-type: none"> <li>• Hempel - Losing seasons in the landscape: When the bee season falls out of synchrony</li> <li>• Meisch - I have bee-s/-n up there</li> <li>• Venning - Forecasting seasons: Using climate forecasts to dictate agricultural rhythms in East Africa</li> <li>• Young - Artifacts and seasonality: How we guide the built environment through time</li> <li>• Bremer &amp; Wardekker - Conclusion: Negotiating changing seasonality</li> </ul>		
21.11.2023	Workshop	«Introducing co-creation: Working in different co-production modes”	Scott Bremer	Exploring Unexpected Extremes, Montreal (online)
12.2023	Journal Article	Bremer, S., Klenk, N., Bastian, M., & Kwan-Lafond, D. (2023). Adaptation requires attuning to shifting temporal patterns. <i>Nature Climate Change</i> , 14(1): 8-10.	Scott Bremer	Nature Climate Change

## CALENDARS project outputs 2024

When	What	Title	Who	Where
01.2024	Edited book volume	<p>The CALENDARS project has produced an edited book that has a production plan to be published in November 2023, titled ‘Changing Seasonality: How communities are revising their seasonal calendars’, and comprising 35 chapters from different authors. Several of these chapters have been written by CALENDARS team members:</p> <ul style="list-style-type: none"> <li>• Bremer &amp; Wardekker – When seasons no longer hold</li> <li>• Schøyen Jensen – Thinking with the primstav today</li> </ul>	Scott Bremer Arjan Wardekker Elisabeth Schøyen Jensen Paul Schneider Simon Meisch Mathias Venning Mark Young	De Gruyter

		<ul style="list-style-type: none"> <li>• Sandré et al. - While waiting for the sea ice: stories of changes from Ittoqqortoormiit (Kalaallit Nunaat)</li> <li>• Bremer - Telling the year by the rugby season, and getting confused</li> <li>• Schneider – How seasonal is gin?</li> <li>• Hempel - Losing seasons in the landscape: When the bee season falls out of synchrony</li> <li>• Meisch - I have bee-s/-n up there</li> <li>• Venning - Forecasting seasons: Using climate forecasts to dictate agricultural rhythms in East Africa</li> <li>• Young - Artifacts and seasonality: How we guide the built environment through time</li> <li>• Bremer &amp; Wardekker - Conclusion: Negotiating changing seasonality</li> </ul>		
02.02.2024	Presentation	“How can municipalities adapt to shifting patterns of temporal rhythms?”	Scott Bremer	Miljødirektoratet, Storbymnettverket
05.-09.02.2024	Keynote	“Credibility of models and expert knowledge in the context of societal challenges”	Arjan Wardekker	International Lorenz Workshop “Fact, fake and Fiction”, Leiden.
14.02.2024	Forum	“Interdisciplinarity: A discussion of key principles with the example of Beeware”	Scott Bremer	Bjerknes Centre
03.2024	Journal Article	Bremer, S., & Schneider, P. (2024). How seasonal cultures shape adaptation on Aotearoa–New Zealand’s Coromandel Peninsula. <i>Global Environmental Change</i> , 85, 102822.	Scott Bremer & Paul Schneider	Global Environmental Change
09.-10.04.2024	Presentation	“Urban and community resilience, climate adaption and the HHAP Guidance	Arjan Wardekker	WHO Expert meeting on Heat-Health Action Plans, Bonn.
18.04.2024	Presentation	“TIMELY: Mobilizing communities’ adaptive capacities for timely action	Scott Bremer	NORCE
05.2024	Journal Article	Bremer, S. (2024) Is Bergen Unseasonal? On Europe’s Shifting Relation to Seasons. <i>European Review</i> , 1-15.	Scott Bremer	European Review

05.2024	Journal Article	Matte, D., Christensen, J. H., Drews, M., Sobolowski, S., Paquin, D., Lynch, A., ... & Leduc, M. (2024). How to engage and adapt to unprecedented extremes. Bulletin of the American Meteorological Society.	Scott Bremer	Bulletin of the American Meteorological Society
03.06.2024	Lecture	“Where to find transdisciplinary and how to integrate it into education”	Scott Bremer	Bergen Summer Research School
15.05.2024	Conference paper	“Coordinating Seasons in Bergen Arboretum”	Scott Bremer	Human Geographies of Climate Change Adaption Conference at University of Bergen
21.-23.05.2024	Presentation	"The CALENDARS project and historic representations of seasons”	Scott Bremer	At “The Nordic Little Ice Age” - project kick-off meeting, Oslo.
03.06.2024	Lectures	Course on the theory and ethics of science	Scott Bremer	Bergen Summer Research School, University of Bergen
04.-06.06.2024	Conference paper	Coordinating Seasons in Bergen Arboretum”	Scott Bremer	Nordic Environmental Social Science conference, University of Turku
20.06.2024	Seminar	“Seasonal Lives” Presentation: “Coordinating Seasons in Bergen Arboretum” Presentation: “Seasonal Forecast in Sidama, Ethiopia”	Scott Bremer Mathias Venning	Together with Living with SAD project, University of Bergen, SVT.
21.10.-01.11.2024	Lectures	Co-producing transdisciplinary science for climate adaption	Scott Bremer	CATER PhD school, Tanzania
2024	Journal article	“Co-ordinating agricultural adaptation: Seasonal Forecasts and their influence on rural agricultural rhythms in Ethiopia”	James Venning	In press, Time and Society
2024	Journal article	Bremer, S., S.S. Aasheim, B. Glavovic, H. Haarstad, E.S. Jensen, E. Lövbrand, T. Potthast, P. Schneider, M.B. Soares, S. Sobolowski, S. Strauss, A. Wardekker, K. van Zandvoort (submitted). Changing seasonality: Recalibrating institutions' seasonal calendars. Ambio.	Scott Bremer Bruce Glavovic Paul Schneider Arjan Wardekker Kerstie van Zandvoort	Submitted
2024	Journal article	Jungsberg, L., L.O. Vestergård, A. Karlsdóttir, A. Wardekker (submitted). Enhancing resilience through policy narratives: Exploring regional development in Greenland. Acta Borealia.	Arjan Wardekker	Submitted