

# FRACTAL Embedded Researchers workshop report



Cape Town

27 February – 3 March

Compiled by Alice McClure, Anna Taylor, Brenda Mwalukanga, Jessica Lee, Kornelia  
lipinge, Lulu van Rooyen, Rudo Mamombe and Sandra Zenda



## Summary

During 27 February – 3 March 2017, the FRACTAL embedded researchers workshop was held in Cape Town, South Africa. This workshop was designed to introduce all the embedded researchers working on the project to important concepts and methods that are being implemented within FRACTAL. Furthermore, the workshop was designed to take place during the week of the [Fifth International Conference on Climate Services](#) to capitalise on this capacity-building opportunity.

Six embedded researchers took part in the workshop, travelling from areas within Cape Town, Durban, Harare, Lusaka and Windhoek.

## Table of Contents

Summary	2
Table of Contents	3
Introduction and background to the workshop report	1
Workshop process and outcomes	1
Day 1	1
Getting to know each other	1
What is the ER in the Context of transdisciplinary research, knowledge co-production and co-exploration?	2
Navigating the complex world of transdisciplinarity in FRACTAL	2
‘Burning questions’ raised by the embedded researchers	3
Day 2	4
Attendance at conference	4
Day 3	4
Attendance at conference	4
How do climate services relate to FRACTAL?	4
Attendance at conference	5
Day 4	5
Attendance at conference	5
Introduction to governance theory and methods used in FRACTAL	5
Day 5	5
Methods: Decision making process and support methods	5
Learning from week, managing learning & documenting city learning going forward	6
Reflections	6
Next steps for FRACTAL	10
Annex 1: Attendance list and participants’ details	11
Annex 2: Workshop programme	12
Annex 3: ICCS5 programme	16

## Introduction and background to the workshop report

During 27 February – 3 March 2017, the FRACTAL embedded researchers workshop was held in Cape Town, South Africa. This workshop was designed to introduce all the embedded researchers working on the project to important concepts and methods that are being implemented within FRACTAL. Furthermore, the workshop was designed to take place during the week of the [Fifth International Conference on Climate Services \(ICCS5\)](#) to capitalise on this capacity-building opportunity.

Six embedded researchers took part in the workshop, travelling from areas within Cape Town, Durban, Harare, Lusaka and Windhoek.

This report provides an overview of the workshop process, along with outcomes and lessons learned from particular sessions. The FRACTAL-specific sessions were fairly informal with the intention of providing as much space for questions and conversations about important topics as possible.

## Workshop process and outcomes

### Day 1

#### Getting to know each other

After initial introductions, the researchers participated in a “river of life” activity, during which each reflected on their life path that led them to be in the particular position of FRACTAL embedded researchers. The researchers drew their “rivers of life” (see images below) to illustrate this path. This activity provided an opportunity for the researchers to learn about each other’s diverse backgrounds.



The FRACTAL bigger picture (work packages, clusters and approaches) was also

introduced using the elements of the FRACTAL infographic (see below).



## What is the ER in the Context of transdisciplinary research, knowledge co-production and co-exploration?

This session was based on the working paper that has been developed within FRACTAL entitled *Transdisciplinarity, co-production and co-exploration: integrating knowledge across science, policy and practice in FRACTAL*. In summary, the three approaches to work, city engagements, and learning in FRACTAL were introduced to the researchers, with lots of time set aside for questions and discussions.

For more information contact Anna Taylor at [annactaylor@gmail.com](mailto:annactaylor@gmail.com) and Alice McClure at [alice@csag.uct.ac.za](mailto:alice@csag.uct.ac.za).

## Navigating the complex world of transdisciplinarity in FRACTAL

This session was opened by Lulu van Rooyen, the embedded researcher from Durban, who attended the Intrepid Knowledge Barcelona Training school on transdisciplinarity. Lulu provided an overview of the theory that was discussed at this training school, along with her insights about how projects are operationalising the concept of transdisciplinarity. These insights are summarised in a blog entitled *"I am who I am because of what we are" – building trust in our Transdisciplinary projects (plus some reflections on my trip to the Barcelona Training School)*. It has been shared on the FRACTAL website.

The team then discussed the different ways in which FRACTAL is operationalising the

concepts of transdisciplinarity, co-production and co-exploration.

For more information contact Lulu van Rooyen at [pretorius.lulu@gmail.com](mailto:pretorius.lulu@gmail.com) and Alice McClure at [alice@csag.uct.ac.za](mailto:alice@csag.uct.ac.za).

#### **'Burning questions' raised by the embedded researchers**

Before the workshop, a request was made to the embedded researchers to develop 3-5 questions that they hoped would be answered during the workshop. These questions were collected at the end of the first day and are presented below (grouped into themes).

#### **FRACTAL project**

- What is the intention, the processes, the roleplayers of FRACTAL?
- Who comes up with research ideas and proposals?
- What was the basis for selecting the countries / cities for the FRACTAL project and why only southern Africa?
- What do city-regions entail?
- How does the FRACTAL approach compare to or complement similar research in other continents? Does it factor in best practices from other projects or hope to produce other best practices for other big projects?
- How will all the findings from different sources, cities and research styles be consolidated into one 'scientifically' acceptable output?
- Is there an answer to the 'so what' question? What happens after the project; any follow up on progress?
- How will the resilient pathways developed by FRACTAL be maintained and improved after the duration of the project?

#### **TD approach**

- The Working Paper addresses how it will overcome TD challenges of working across disciplines and partners, but how does it address criticisms of TD approaches citing the lack of a coherent framework and a commonly accepted methodology?
- Is TD only applicable in research that is focused on decision-making and governance?
- Working in a TD space requires accepting the 'parity of esteem'; how do we find a balance between respecting diplomacy and appealing to expert opinion where relevant?
- How will all the findings from different sources, cities and research styles be consolidated into one 'scientifically' acceptable output?

#### **Embedded research**

- What are the embedded researchers' roles and responsibilities?
- What exactly do the other embedded researchers do? What are their day-to-day responsibilities?
- How to divide time between the local authority and the university for embedded researcher?



- What is the expected output from my embedded research at the city council?
- Ideas for papers on the FRACTAL process in cities - how does one get these papers published?
- What opportunities are there for training in various skills for the embedded researcher?
- How often should embedded researcher's blog?
- How can I find the shadow spaces and better embed myself through them?
- Barriers to decision-making at a city level can result from a number of things, two common ones being (1) the nature of climate information that is presented and how it's presented and (2) governance problems and political agendas - the second one especially can be quite problematic to navigate as an embedded researcher, what are your experiences thus far?
- When are work plans submitted and to who?
- What does the monthly embedded researcher reporting entail? When, how and to whom do these need to be submitted?

#### Climate services

- What are climate services all about and who are the roleplayers?
- How to get climate services documented in each city?

## Day 2

### Attendance at conference

The researchers attended the opening day of the ICCS5. For an overview of the conference programme, see Annex 3. The following broad themes were covered during this first day: i) climate services in Africa; ii) learning from success and failure; iii) operationalisation of climate services

During lunch at the conference, the researchers took part in an informal session on FRACTAL's learning approach. This included an introduction to the learning framework, along with a discussion of the processes that will facilitate learning in FRACTAL, including learning journals, monthly reports and the embedded researcher channel on slack.

## Day 3

### Attendance at conference

For the first half of day 3, the researchers attended ICCS5 sessions. These included a keynote on capacity building and a marketplace for climate services activities.

### How do climate services relate to FRACTAL?

After morning attendance at the conference, a session was run on how climate services relate to FRACTAL. In particular, the narrative approach was discussed with the

researchers, Chris Jack of the climate information cluster, and a number of other FRACTAL team members. Rosalind West, manager of the Future Climate For Africa (FCFA) programme at DFID, also attended this session. Listen to a recording of this session here (note: only available to those who have access to the FRACTAL Google Drive).

For more information contact Chris Jack at [cjack@csag.uct.ac.za](mailto:cjack@csag.uct.ac.za).

#### Attendance at conference

In the afternoon, the researchers attended parallel sessions at the ICCS5, which focussed on mutual learning in climate service. Thereafter, the researchers attended the conference dinner at Moyo, Kirstenbosch Gardens.

### Day 4

#### Attendance at conference

For the first part of day 4, the researchers attended ICCS5 sessions. These included a keynote on innovation and local knowledge and presentations on *frontiers and the next wave of climate services*.

#### Introduction to governance theory and methods used in FRACTAL

After lunch, the embedded researchers took part in a FRACTAL-specific session on the governance work that is being undertaken in FRACTAL. During this session, FRACTAL team members gave presentations on: i) general governance theory; and ii) governance research frameworks that are being applied in FRACTAL, particularly regarding political discourse, politics and planning; and actor mapping. The researchers were also provided with information on how to undertake social research (i.e. interviews and surveys).

For more information, contact Katinka Waagsaether at [katinka@csag.uct.ac.za](mailto:katinka@csag.uct.ac.za), Davison Muchadenyika at [muchadenyikad@gmail.com](mailto:muchadenyikad@gmail.com), Dianne Scott at [diannescott.dbn@gmail.com](mailto:diannescott.dbn@gmail.com) or Jess Kavonic at [jessica.kavonic@iclei.org](mailto:jessica.kavonic@iclei.org).

### Day 5

#### Methods: Decision making process and support methods

The first session of day 5 focussed on the decision-making work that is being undertaken within FRACTAL. Team members from SEI who had attended the ICCS5 presented on the approaches that are being implemented within FRACTAL (e.g. review of decision support tools). This session also provided an overview of the role that the embedded researchers will play in the decision making work.

For more information contact Sukaina Bharwani at [sukainabharwani.sei@gmail.com](mailto:sukainabharwani.sei@gmail.com)



### Learning from week, managing learning & documenting city learning going forward

After discussing the decision making work, another session was held on FRACTAL learning (following on from the session on the second day of the workshop). This session focussed on city learning, lessons that were learned during the week, and managing learning processes. An important part of this session was the focus on the iterative learning process that is being implemented within FRACTAL.

For more information, contact Bettina Koelle at [Koelle@climatecentre.org](mailto:Koelle@climatecentre.org) and Monica Coll Besa at [monica.coll.besa.sei@gmail.com](mailto:monica.coll.besa.sei@gmail.com).

### Reflections

At the end of the workshop, a request was made to the researchers to reflect on their time at the workshop. These reflections are presented below.

- Co-production / co-design is a buzzword but most operating in the climate services space still seem to be doing it quite superficially, FRACTAL is quite cutting edge in that respect and so it is exciting to be part of it because the project is designed to address many of the challenges people raised in the conference;
- People are not yet designing projects that commit the time required to really do “co”, whereas FRACTAL has invested that time in the start-up phase many other projects seem to be saying they do “co” but are still pushing through short time frames;
- Great that FRACTAL is not prescribing user needs but really trying to find out what they are in the cities
- Uncertainty in the climate projections still seems to be a big challenge when engaging with decision-makers – how do we work with or around that? The narratives seem to be one way of tackling this by starting a conversation about a range of possibilities and implications in a way that is accessible and engaging to non-experts in climate science in order to provoke questions and discussions, much more so than presenting graphs and numbers.
- It’s important to focus on what we are more certain about, as well as being clear about what is uncertain – this is a topic to engage more with the climate information cluster on;
- Even with all the co-production talk at the conference it still seems as if the flows are all one way, that scientists and researchers are still seen in the privileged position of being the knowledge producers and that that knowledge then flows out to others;
- The conference talks were mostly very dense, using slides with way too much text on it, which seems ironic seeing as the aim is improved communication of climate information
- Surprised how heavily the programme focussed on the production and communication of climate information and how little there was on adaptation practices

The researchers also filled out an online survey to provide feedback on the conference. The information collected through this exercise is presented below.

1. Name	2. City	3. What are the three you learned from the workshop and ICCS5 that are likely to stick with you?	4. What are three things you plan to do as next steps after the workshop?	What skills have you gained through the workshop that might help with your work?	Do you have any unanswered questions after the workshop?	What did you particularly like / enjoy about the workshop?	8. What do you think could be improved on?	9. Will you produce any outputs from the workshop/ICCS5 that will be shared within your network?
Sandra Zenda	Harare	Climate narratives, transdisciplinary research approach and collaboration in climate services.	Use the climate narratives approach in communicating climate projections and adaptations; and having a transdisciplinary approach in all projects even post-FRACTAL.	Basis for transdisciplinary and collaborative research	None as of now.	Learning new things and getting to have a good understanding of them as they were expressed in different ways from different perspectives in such a way as to simplify most of the aspects taught.	All issues I had were answered such as interaction of ERs in their different cities for learning purposes.	Use of climate narratives and transdisciplinary approaches.
Kornelia	Windhoek	1. Local knowledge needs to be considered into Climate Services. 2. Embedded Researchers roles are diverse and unique to each City/Country. 3. With all projects or programs on related to Climate Change or Climate Services political will should be there.	1. By attending the City Learning Lab I shall be able to understand and find out what the City "burning issues" are and see how it goes forward to identifying research areas. 2. Collect and Read City of Windhoek's documents related to the NEXUS.	1. Networking with people from different backgrounds. 2. Communication and integration of different disciplines is very important.	None for now.	The networking with people around the world and their interest in hearing about the FRACTAL project.	All was well organised.	Input such as report backs of presentations or blog?

			3. Work on my workplan.					
Brenda	Lusaka	The concept of the third space. climate services being tailored for the users in terms of adaptation. How to do the actor mapping during the governance side event	complete the Lusaka organogram. Develop the proposal for the local research on water security. Assist in the mainstreaming of climate change into the Lusaka city council strategic plan	Skill in actor mapping and networking	When does the cross learning of cities begin?	The many options in the side events	The climate service aspect should include adaptation services as well as draw from a spectrum of practitioners in order to promote transdisciplinarity.	A report on the conference and side events. A blog
Lulu	Durban	1. I understand now on what climate information and services entail (previously heard the term used often, but had no concept of it). 2. It appears as if everyone, even people not so involved in TD projects like FRACTAL, are realizing the issue of 'information translation', and the understanding the language of the user. 3. I understand the role of the embedded researchers better now, and I learnt a lot about the FRACTAL processes, concepts and ideas, which I didn't really	1. Finalize proposal and work plan 2. Host my first workshop with the academic and municipal partners in D'RAP 3. Finalize my literature review on indicators 4. Set up meetings with biodiversity experts	I cannot yet perceive any major new skills or competencies, but I do feel that my perspective has been broadened a lot, and I see things in a much more holistic way now.		I appreciated that other members of the FRACTAL team were brought into our workshop to convey information about their role in FRACTAL and how they and the ERs should complement each other. The annual event is simply too large to immediately understand how everything and everyone fit together, and who	I really enjoyed it, can't think of much to change right now. I did sometimes feel that the workshop and the ICCS5 together was quite an information overload, especially since everything (people, concepts, information)	Not that I know of yet.

		get at the annual event last year.				you should be linking up with (it is also not the space for this, which is why the ER week was so valuable)	at the ICCS5 was also very new to all of us.	
Rudo Mamombe	Harare	1) My roles as an embedded researcher and the expected outputs as well as an understanding of the whole FRACTAL project 2) Qualitative data collection methods that I will make use of during the project in order to obtain the required information 3) Different methods of providing climate information to different types of users	Developing field work sampling tools Data collection in the City of Harare for the CUT START GCE Project Engaging with different stakeholders in the city of Harare so as to gain an understanding of the decision making process in the city as well as to learn from them/collaborate in order to build resilient pathways for the water and energy sector in the city of Harare	Research skills i.e. data collection methods Networking skills Collaboration with stakeholders from different disciplines Innovation in offering climate services Effective communication Ability to work in a team		The networking with the other embedded researchers, getting to know each other at a personal level which now makes it easier for us to work together and help each other when we face challenges. It was also great learning about what other ERs are doing in their cities which formed a basis for future collaborations and knowledge exchange	I think everything was well planned but perhaps there is need for more time as the answering of ERs questions part was not covered	Workshop and Conference report
Jessica Lee	Cape Town	During the work shop there was a tutorial run by Di on how to conduct Social Science research. I found this overview very helpful.  perceived failures (i.e. the difficulty to embed myself	start writing a journal of my experiences at the city  take considerable notes of things that I think have not gone	Workshop: skills in conducting social science research, working in a interdisciplinary setting -		Openness of discussions, River of life game at the start, supportive environment.	It was stressful running the workshop in conjunction with the Conference. I felt a bit	In discussion with the other ER's it was agreed that it would be helpful to run a short webinar/zoo

		<p>at the city) are not necessarily failures but important things to learn from and document in the FRACTAL project.</p> <p>Much of the focus of the ICCS5 conference was on co-production with users of climate services, and a need to shift to better methods. What I found interesting was few presentations offered methods for achieving this. this flagged a need for further research in this field, and the vital relevance of the fractal project.</p>	<p>well with the city, not only things that went well.</p>	<p>explaining and understanding methods used in other disciplines, languages used, questions asked.</p> <p>ICCS5: developing a poster. presenting a poster, developing confidence in networking and engaging with others regarding my work.</p>			<p>stretched and didn't feel that I could be present at both fully. I probably would have found it better to have run an extra day separate to the conference.</p>	<p>m call where I will run through the narratives and their purpose in further detail as the ER's were feeling a little unsure of them. This will be carried out in the next 3 weeks.</p>
--	--	--	--	---	--	--	--	---

## Next steps for FRACTAL

**Embedded researchers call on 4 April 2017:** the next official embedded researchers call will take place on 4 April 2017. At this call, the questions raised by the researchers will be revisited to be sure they have all been answered.

**Blog on lessons learned during the workshop:** a blog on the embedded researcher workshop will be developed from the feedback and reflections that have been gathered. This blog will be shared on the FRACTAL website during the month of April 2017.

**Workplans:** workplans will be developed with the embedded researchers who have not yet done so.

## Annex 1: Attendance list and participants' details

Name	City	Email
Brenda Mwalukanga	Lusaka	lunela2004@gmail.com
Jessica Lee	Cape Town	jessica22lee@gmail.com
Kornelia Ipinge	Windhoek	kornelia.iipinge@gmail.com
Lulu van Rooyen	Durban	pretorius.lulu@gmail.com
Rudo Mamombe	Harare	mamomberudo92@gmail.com
Sandra Zenda	Harare	zendasandra@gmail.com



## Annex 2: Workshop programme

Session slot	Aim of session	Activity	People leading	Related resources
Monday 27 Feb: venue in EGS Building, Upper Campus, UCT				
08:30-09:00	Arrival			
09:00-10:30	Get to know each other and build a sense of team;  See the <b>FRACTAL big picture</b> and where ERs fit in	Introductions game (river of life);  Talk through the infographic	Anna T Alice	<a href="#">Infographic</a>
10:30-11:00	Tea/coffee			
11:00-12:30	What is ER in the context of <b>transdisciplinary research, knowledge-co-production &amp; co-exploration &amp;</b>  Why we think it's needed?	Exercise visualizing what it is to be an ER;  Presentation based on working paper plus CC as wicked problem & city as complex governance landscape	Anna T  With Alice and Di for Q&A	FRACTAL Working Paper on transdisciplinarity, co-production and co-exploration (forthcoming)
12:30-13:30	Lunch			
13:30-15:00 Monday PM, post-lunch	Navigating the <b>complex world of transdisciplinarity</b> in FRACTAL  Plenty of time for Q&A	Input from Lulu on lessons from Barcelona TD workshop  TD practicalities in FRACTAL: clusters, task teams, communications, governance  (use graphic to link clusters to tasks); SOGs as opportunity to fund	Alice M Lulu  With Anna T and Di for Q&A	<a href="#">ER Welcome Pack</a> ;  Cluster Work Plans ( <a href="#">City learning</a> , <a href="#">climate information</a> , <a href="#">decision making</a> , <a href="#">nexus</a> and <a href="#">cross-cutting</a> ); <a href="#">Task Team lists</a> ; <a href="#">Communications guidance &amp; branding guidelines</a> ; <a href="#">Governance</a>

		additional TD activities		<a href="#">framework</a> ; SOG guidelines (currently being revised)
15:00-15:30	Tea/coffee			
15:30-17:00 Monday PM, post-tea	Introduce <b>work plans; plan for the week</b> , including logistics and expected outputs	Have participants share their 3-5 questions they hope to find answers to during the week	Anna T Alice	<a href="#">ER work plan template</a> ; <a href="#">FRACTAL blogs</a>
Tuesday 28 Feb: ICCS5 Conference venue, Lagoon Beach Hotel				
All day at <a href="#">ICCS5 conference sessions</a> ; get familiar with the themes of the conference during opening plenary sessions; workshop participants to choose which parallel sessions they wish to attend during the afternoon slots				
13:00 - 13:30, over lunch please all sit together at one table	An informal session introducing <b>FRACTAL's learning</b> approach	Intro to: -Learning Journals -Value Narratives from Wenger Framework	Monica	<a href="#">MEL Handbook</a> ; <a href="#">Learning Checklist</a> ; <a href="#">Learning Diagram</a> ; <a href="#">Wenger framework</a> ; 2-pager on Learning Journals (forthcoming)
Wednesday 1 March: ICCS5 Conference venue, Lagoon Beach Hotel				
9:00-10:00	Attend ICCS5 plenary conference sessions			
10:00-10:45	Attend ICCS5 marketplace: have a look around and use it as a networking opportunity			
10:45-11:15	Tea/coffee			
11:15-12:30	How do <b>climate services relate to FRACTAL</b> ?	Round of reflections on most interesting thing I learned today about climate services;  Presentation and discussion on climate narratives (what are they, how do we develop	Chris J Anna S Jess L	<a href="#">Climate narratives concept note</a>

		them, what do we do with them?)		
12:30-13:45	Lunch			
12:40-13:40 (optional)	Participate in ICCS5 side event: Mapping climate services across Africa Session leads: Arame Tall (GFCS), Colin.McQuistan (Practical Action)			
13:45-17:15	Attend ICCS5 sessions; workshop participants to choose which parallel sessions they wish to attend during the afternoon slots			
17:30	ICCS5 conference dinner			
Thursday 2 March: ICCS5 Conference venue, Lagoon Beach Hotel				
9:00-12:30	Attend ICCS5 sessions: Focus on innovation and frontiers in climate services			
12:30-13:30	Lunch			
13:30-15:15	Introduction to <b>governance theory and methods</b> used in FRACTAL	a) Introduction to governance theory b) Politics and planning c) Urban governance fieldwork methods	Di Davison	<a href="#">Governance concept note</a>
15:15-15:45	Tea: <b>reflecting</b> on days 1-4 and identifying emerging opportunities	Revisit 3-5 questions each, what answers have been found, what still looking for?	Anna T Alice	
15:45-17:15	Methods: <b>Actor mapping; Discourse analysis</b>	Presentation and exercise	Katinka Jess K Di	<a href="#">Discourse analysis concept note</a>
Friday 3 March: venue in EGS Building, Upper Campus, UCT				
09:00-10:00	Methods: <b>Decision making process and support methods</b> - what role for ERs in	Review as backdrop / context, focus on application of a few methods they may use	Sukaina	<a href="#">Decision methods review (draft)</a>

	application			
10:00-11:00	<b>Reflect</b> on learning from week & how to manage own learning & document city learning going forward	Managing own learning process, sharing experiences & questions; Learning Labs; Inspiration Book; Video reflection interviews	Monica Bettina	<a href="#">City Learning Labs summary</a> <a href="#">MEL Handbook</a> ; <a href="#">Learning Checklist</a> ; <a href="#">Learning Diagram</a> ; <a href="#">Wenger framework</a> ; 2-pager on Learning Journals (forthcoming)
11:00-12:00	<b>Work planning</b> and closing	Start populating WP template with specifics for their city, referring to cluster work plans	Alice Anna T	<a href="#">ER work plan template</a> ; Cluster Work Plans: <a href="#">City learning</a> , <a href="#">climate information</a> , <a href="#">decision making</a> , <a href="#">nexus</a> and <a href="#">cross-cutting</a>
12:00	Light finger lunch			
PM	Hot desks will be available for anyone wanting to do some work before heading to the airport. Alternatively, with guidance from those living in Cape Town, you can visit shops or local sight-seeing spots.			

## Annex 3: ICCS5 programme



# ICCS5

### Fifth International Conference on Climate Services

28 February – 2 March 2017 | Cape Town, South Africa

Tuesday, February 28, 2017		
09:00 to 12:30	Plenary session - Atlantic suite	
09:00 to 10:00	Opening ceremony	<b>Chair:</b> <b>Bruce Hewitson</b>
09:00 to 09:05	Opening welcome, intro to opening speakers	Bruce Hewitson, University of Cape Town, Director Climate System Analysis Group
09:05 to 09:20	Welcome by South Africa Department of Environmental Affairs	Sibonelo Mbanjwa, Director Climate Change Adaptation - Natural Resources/ Climate Change Adaptation
09:20 to 09:35	Welcome by Western Cape province and city of Cape Town	Helen Davies, Head of Environmental Policy & Planning
09:35 to 09:45	Welcome by Federal Ministry of Education and Research of Germany (BMBF)	René Haak, Advisor for Global Change, BMBF
09:45 to 09:55	Short welcome by Climate Service Partnership & Climate Service Center Germany (GERICS)	Daniela Jacob, Director Climate Service Center Germany (cut in)
09:55 to 10:00	Short welcoming by Directorate General for Research and Innovation, European Commission	Andrea Tilche, Head of Climate Action and Earth Observation Unit (cut in)
10:00 to 10:45	<b>Setting the scene: Climate services at different scales</b>	<b>Chair:</b> <b>David Lesolle</b>
10:00 to 10:09	Global perspectives of the GFCS	Chris Hewitt
10:09 to 10:18	The Global Frame Work on Climate Services	Erica Allis
10:18 to 10:27	Climate services: North American perspective	Lawrence Buja
10:27 to 10:36	Climate services: European perspective	Maria Manez
10:36 to 10:45	Developing national perspectives and stakeholder challenges	Bruce Hewitson

10.40 to 10.45	Discussion	
<b>10:45 to 11:15</b>	<b>Coffee break – Atrium area</b>	
11:15 to 12:30	<b>Climate services in Africa</b>	<b>Chair: Jean-Pierre Roux</b>
11.15 to 11.25	SASSCAL: Climate services for southern Africa	Joerg Helmschrot
11.25 to 11.35	WASCAL: Climate services for western Africa	Jerome Tondoh
11.35 to 11.45	The World Bank's contribution to climate services in Africa, and AFRI-RES	Ana Bucher
11.45 to 11.55	The role of the South African Weather Service in national climate services	Jongikhaya Witi
11.55 to 12.05	Future climate for Africa	Rosalind West
12.05 to 12.15	WISER: Weather and Climate Information SERVICES for Africa	Dave Britton
12.15 to 12.25	The ENACTS Approach	Tufa Dinku
12.25 to 12.35	Africa: Perspective on developing nation needs	Arame Tall
12.25 to 12.30	Discussion	
12.35 to 12.35	General information on housekeeping – please stay and listen	
<b>12:35 to 13:45</b>	<b>Lunch break – Atrium area; side events at conference venue (Atlantic suite 1, Atlantic suite 2, Library)</b>	
<b>13:45 to 15:15</b>	<b>Parallel sessions S12, S13, S14, S15 Learning from success and failure</b>	
<b>S12 Marine suite</b>	<b>Examples of user initiated services</b>	<b>Chairs: James Hansen/ Katiuscia Fara</b>
13:45 to 13:50	Introduction	
13:50 to 14:02	Climate services to assist smallholder farmer decision making: the PICSA approach	Peter Dorward et al.
14:02 to 14:14	Developing an infrastructure to enable knowledge of coastal climate issues in the public – an example from Northern Germany	Insa Meinke
14:14 to 14:26	Bridging the demand and supply sides of climate services for agriculture in Rwanda	James Hansen
14:26 to 14:38	The R4 rural resilience initiative in Senegal	Yacine Fall
14:38 to 14:42	Short poster introduction – see poster list at the end of the programme for details	
14:42 to 15:10	Panel discussion: Peter Dorward, Insa Meinke, James Hansen, Yacine Fall, Katiuscia Fara (moderator)	



15:10 to 15:15	Session summary and close	
<b>S13 Library</b>	<b>Good ideas that never worked</b>	<b>Chair: Julie Arrighi</b>
13:45 to 14:00	Tbd.	Katiuscia Fara
14:00 to 14:15	Cntrl + Alt + Delete: Learning to Communicate	Roop Singh
14:15 to 14:30	Building a Culture of Reflection, Learning, and Adapting within the SERVIR program	Jenny Frankel-Reed
14:30 to 14:45	Climate services for health – Learning from experience to accelerate applications for public health	Joy Shumake-Guillemot
14:45 to 15:00	From "too late" to "activate!": Examining the timing of flood risk management decision	Pablo Suarez
15:00 to 15:15	Session summary and close	
<b>S14 Atlantic suite 1</b>	<b>National initiatives in climate services</b>	<b>Chairs: Arame Tall Ana Bucher</b>
13:45 to 14:00	Integrating climate information into the district health information system in Tanzania	Madeleine C. Thomson
14:00 to 14:15	Serving distinct audiences through web interfaces: Experiences from climate.gov and the U.S. climate resilience Toolkit	Meredith Muth
14:15 to 14:30	Toward national framework for climate services for South Africa	Sibonelo Mbanjwa
14:30 to 14:45	Bhutan's strategic programme for climate resilience	Passang Dorji
14:45 to 15:00	Experiences and lessons learned from the implementation of China framework of climate services	Lianchun Song, <u>Zhiqiang Gong</u>
15:00 to 15:15	Short poster introduction – see poster list at the end of the programme for details	
<b>S15 Atlantic Suite 2</b>	<b>Projects on the regional and trans-national scale</b>	<b>Chair: Joerg Helmschrot</b>
13:45 to 13:55	Building climate resilient society in the Sahel: The RAINWATCH experience	Rosalind Cornforth
13:55 to 14:05	Developing climate services through partnership with national Met. Services	Nicola Golding
14:05 to 14:15	Development of an early warning system for heat wave related mortality in Europe: Key outcomes and lessons learnt	Rachel Lowe
14:15 to 14:25	The Copernicus Climate Change Service (C3S) in the making	David Armstrong
14:25 to 14:35	Minimizing losses of human life through early warning and early action: the case of the 2015/16 El Nino impact in the	Abebe Tadege

	greater Horn of Africa (GHA)	Tsehayu
14:35 to 14:45	Short poster Introduction – see poster list at the end of the programme for details	
14:45 to 15:15	Discussion	
15:15 to 15:45	<b>Coffee break – Atrium area</b>	
15:45 to 17:15	<b>Parallel sessions S21, S22, S23</b> <b>Operationalization of climate services</b>	
<b>S21 Library</b>	<b>Climate services business models</b>	<b>Chair: Maria Manez</b>
15:45 to 16:00	Public private partnerships enhancing capacity of LDC NMHS to contribute to climate resilience	Ari Davidov
16:00 to 16:15	The missing middle? Building the chain from observation to application	Scott McCormick
16:30 to 16:45	The contradictions of commercializing climate services	Sophie Webber
16:45 to 17:00	Better get a houseboat? Flood simulation tool for South Africa's Coast	Louis Celliers
17:00 to 17:15	Climate services for supporting climate change adaptation in agriculture in India: national initiatives and strategies based on local knowledge	Shadananan Nair – withdrawn
17:15 to 17:15	Short poster Introduction – see poster list at the end of the programme for details	
<b>S22 Atlantic suite 1</b>	<b>Climate services' added value and evaluation</b>	<b>Chairs: Susanne Schuck-Zoeller, Atte Harjanne</b>
15:45 to 16:00	The evaluation cascade: How to get from quality dimensions to indicators and measurement	Susanne Schuck-Zoeller, Elke Keup-Thiel
16:00 to 16:15	Evaluating climate services: A review of methods	Catherine Vaughan, et al.
16:15 to 16:30	Designing and implementing national monitoring systems with appropriate sectorial indicators for EBAFOSA: A key necessity for adaptation to climate change	Anthony Akpan
16:30 to 16:45	Challenges and opportunities in monitoring and evaluation: Lessons and findings from the participatory integrated climate services for agriculture (PICSA) approach in four countries	Graham Clarkson, et al.
16:45 to 17:00	Assessing the value of seasonal climate forecasts in decision-making	Marta Bruno Soares, Meaghan Daly, et al.
17:00 to 17:15	Short poster Introduction – see poster list at the end of the programme for details	
<b>S23 Atlantic Suite 2</b>	<b>What are effective climate services?</b>	<b>Chairs: Stephen Zebiak, James Hansen</b>

15:45 to 15:50	Introduction to session focus, key questions	
15:50 to 16:02	Identifying users and their needs for climate services: A review of methods and practices	Edward R. Carr
16:02 to 16:14	Leaving no one behind: fitting climate information services within an equity framework	Jessica Omukuti
16:14 to 16:26	Building health sector capacity for El Nino preparedness and Response – Reflections from Africa	Tasiana Mzozo
16:26 to 16:38	National level climate service governance: Identifying structures of membership, roles and responsibilities	Andrew Kruczkiewicz
16:38 to 16:43	Short poster introduction – see poster list at the end of the programme for details	
16:43 to 17:10	Panel discussion, with all session presenters	
17:10 to 17:15	Session summary and close	
17:30 to 19:00	Side events at conference venue (Atlantic suite 1, Atlantic suite 2, Library)	
19:30 to End	Icebreaker	
Wednesday, March 01, 2017		
9:00 to 12:30	Plenary Session – Atlantic suite – Chair: Catherine Vaughan	
09:00 to 09:15	Report of Day 1	
09:15 to 10:00	Keynote: Capacity building for climate services: Rethinking current and future development	David Mkwambisi, Lilongwe University of Agriculture and Natural Resources
10:00 to 12:30	Market Place - for details see the Market place programme below	
12:30 to 13:45	Lunch break with poster session 1 – Atrium area; side events at conference venue (Atlantic suite 1, Atlantic suite 2, Library)	



<b>13:45 to 15:15</b>	<b>Parallel sessions S31, S32, S33 Mutual Learning (I)</b>	
<b>S31 Atlantic suite 1</b>	<b>From data and information to knowledge</b>	<b>Chair: Bruce Hewitson</b>
13:45 to 14:00	Stasis and business as usual or a shift to engaged climate services: what may it take in Africa?	Albert Edgar Manyuchi
14:00 to 14:15	Visualizing a harmonized language for climate services	Sukaina Bharwani
14:15 to 14:30	The importance of context in the development of climate services: Key challenges in the development of Agro-climatic services for Maize and Rice producers in Colombia	Steve Prager
14:30 to 14:45	Integrated service provision to overcome the adverse impacts of climate change and variability in West Africa	Jerome Tondoh
14:45 to 15:00	The United Nations Development Programme	Mark Tadross
15:00 to 15:15	Short poster Introduction – see poster list at the end of the programme for details	
<b>S32 Atlantic suite 2</b>	<b>User involvement in climate services development</b>	<b>Chairs: Chris Hewitt, Katuscia Fara</b>
13:45 to 15:15	Making plans and taking action – lessons from applying climate services in multisector national and community adaptation planning	Scott McCormick
	Building capacity for user-driven climate services for health in Mozambique	Tatiana Marruffo
	Building capacity and improving resilience to weather and climate extremes in the Philippines	Claire Scannell
	Shock responsive social protection and climate services	Dominic Nyirongo
	Participatory scenario planning for co-production of seasonal climate information	Maurine Kasavu Ambani
	Short poster Introduction – see poster list at the end of the programme for details	
<b>S33 Library</b>	<b>Climate services research and capacity building needs</b>	<b>Chair: Lawrence Buja</b>
13:45 to 15:15	Potential directions of the coordinated regional downscaling experiment in providing climate science for climate services	Bill Gutowski
	Farmers' access and use of climate information in Rwanda: a baseline assessment	Jeanne Coulibaly
	The Importance of Integrating Climate Science in health systems	Rosalind Cornforth
	Science to services research needs - tbd	Angel Munoz
	Short poster introduction – see poster list at the end of the programme for details	

15:15 to 15:45	<b>Coffee break – Atrium area</b>	
15:45 to 17:15	<b>Parallel sessions S41, S42, S43 Mutual Learning (II)</b>	
<b>S41 Atlantic suite 1</b>	<b>What can we learn from all the co-activities?</b>	<b>Chair: Andreas Haensler</b>
15:45 to 16:00	Catalysing connectivity and multi-solving climate challenges through co-development of climate services	Fiona Percy and Maurine Ambani
16:00 to 16:15	Community-based environmental monitoring and information services in remote mountain regions: Towards decentralised information flows and tailored visualisations?	Sam Grainger and Wouter Buytaert
16:15 to 16:30	Co-Production of models in communicating climate change and development related risks and uncertainties by the coastal and delta communities to increase their climate adaptation in Vietnam.	Bach Tan Sinh
16:30 to 16:45	What do we know about RCOFs? Learning from two decades of user engagement in regional climate outlook forums to inform future climate services development	Meaghan Daly and Suraje Dessai
16:45 to 17:00	Co-designing climate services for urban Africa	Anna Steynor et al.
17:00 to 17:15	Short poster Introduction – see poster list at the end of the programme for details	
<b>S42 Atlantic suite 2</b>	<b>Effective knowledge brokering</b>	<b>Chairs: Sukaina Bharwani, Florian Bauer, Sigmund Kluckner</b>
15:45 to 16:35	Introduction to climate knowledge brokering and the session format: Knowledge brokering for climate services	Florian Bauer, Sukaina Bharwani
	Lightning talk: Projecting and communicating future tropical cyclone risks to inform resilience building in the Philippines + Posters	Joseph Daron
	Lightning talk: Training programme for consultants and financing institutions: Integrating climate information into development projects and climate risk analyses + Posters	Andreas Haensler
	Lightning talk: A city network driving sustainable urban solutions + Posters	Meggan Spire
	Lightning talk: Co-designing climate service portals with users: Promises and pitfalls AND Reacting to diverse and 'dynamically growing' feedback: User involvement in developing the climate information portal CLIPC (Combined) + Posters	Johannes Luekenkoetter

16:35 to 17:05	Interactive discussion in 4 tables around the themes presented in the talks	4 table hosts, overall facilitation by F. Bauer
17:05 to 17:15	Reporting back and conclusions	F. Bauer and table hosts
<b>S43 Library</b>	<b>Local knowledge for local action</b>	<b>Chair: Katiuscia Fara</b>
15:45 to 17:15	Dialogue as learning method for farmers in science field shops	Sue Walker, <a href="#">Rhino Ariefiansyah</a>
	Improving climate services through a new "no regret" cross-sectorial approach for the benefit of the communities and policy makers.	Narcisse Zegbe Gahi
	Difficulties of communicating ensemble flood forecasts to small-scale farmers in sub-Saharan Africa: a case study of the Delta State in Nigeria	Eromose Ehije Ebhuoma
	Community based adaptation tool-Participatory scenario planning as a communication tool for seasonal climate forecasts	Calistus M.M. Wachana
	Experiences from the Field: Building Resilience through Innovative Approaches to CIS in Central America & East Africa	Elliot Levine, <a href="#">Kristin Lambert</a>
Short poster introduction – see poster list at the end of the programme for details		
<b>17:15 to 17:30</b>	<b>Break</b>	
<b>17:30</b>	<b>Leave for conference dinner (bus transfer)</b>	
<b>18:00</b>	<b>Conference dinner at Moyo Restaurant (Kirstenbosch Gardens)</b>	
<b>22:30</b>	<b>Shuttle from restaurant back to Lagoon Beach Hotel</b>	
<b>Thursday, March 02, 2017</b>		
<b>9:00 to 10:45</b>	<b>Plenary Session – Atlantic suite – Chair: Maria Manez</b>	
<b>09:00 to 09:15</b>	<b>Report of Day 2</b>	
<b>09:15 to 10:00</b>	<b>Keynote</b> Challenges and opportunities for Innovation within the climate services' framework	David Lesolle, University of Botswana
<b>10:00 to 10:45</b>	<b>Keynote</b> The role of knowledge lost in innovation efforts	Shankar Aswani, Rhodes University, SA
<b>10:45 to 11:15</b>	<b>Coffee break – Atrium area</b>	



<b>11:15 to 12:30</b>	<b>Plenary Session – Atlantic suite – Chairs: Ana Bucher, Maria Manez</b> <b>Frontiers and the next wave of climate services</b>	
	Short impulse talks Discussion	Chris Hewitt, Simon Hughes, Louis Celliers,
<b>12:30 to 13:45</b>	<b>Lunch break with poster session 2 – Atrium area; side events at conference venue (Atlantic suite 1, Atlantic suite 2, Library)</b>	
<b>13:45 to 15:15</b>	<b>World Cafe / Round table: Climate services' way forward</b>	Ana Bucher, Maria Manez
<b>15:15 to 15:45</b>	<b>Coffee break – Atrium area</b>	
<b>15:45 to 17:15</b>	<b>Wrap up World Cafe Closing of conference</b>	Steve Zebiak, Bruce Hewitson
<b>17:15 to 17:30</b>	<b>Break</b>	
<b>17:30 to 19:00</b>	<b>Side events at conference venue (Atlantic suite 1, Atlantic suite 2, Library)</b>	
<b>From 19:30</b>	<b>Internal meeting of CSP and Programme Committee</b>	

<b>Market Place - Marine suite</b> <b>Wednesday, March 01, 10.00 to 12:30</b>		
M1	WASCAL and SASSCAL - Two African science service centers to support regional climate change research and climate service provision	Joerg Helmschrot, Jerome E. Tondoh
M2	JPI Climate: A Key player in advancing climate services in Europe and beyond	Dagmar Bley
M3	Knowledge brokering for climate services	Monica Coll Besa
M4	Training the next generation of climate scientists to support climate services	Joseph Daron
M5	Presentation of the climate services journal	Steffi Ehlert
M6	Filling the gaps in for the provision of effective climate services in Southern Africa	Nsadisa Faka
M7	Information system for climate risk management in Agriculture production in Uruguay.	Agustín Giménez

M8	Using the dialogic change model as a result-oriented approach in designing and implementing stakeholder dialogues in climate services	Alina Gruen
M10	Power analytics and visualization for climate science: A web platform for climate services	David Huard
M11	Climate Tagger	Sigmund Kluckner
M12	Introducing Climateurope: A network to support Europe's research and innovation activities in the fields of Earth-System Modeling and climate services	Lola Kotova
M13	Climate Cafe abstract-WISER Programme	Bill Leathes
M14	African impact Atlas: a Systematic analysis of impacts in Africa under different climate change scenarios	Chris Lennard
M15	Interactive exploration and combination of climate indicators in the CLIPC portal	Johannes Lueckenkoetter
M16	Performance Based Budgeting System	Liliet Sofitri
M17	Presenting uncertainty with confidence – a new methodology for climate impact indicators	Juliane Otto
M18	Adaptation Learning Programme (ALP)	Fiona Percy
M19	Machine learning for climate risk management downstream of hydropower dams	Pablo Suarez
M20	CR2 Climate explorer	Francisca Munoz Bravo
M21	R-Instat - Filling a gap in statistical software	James Musyoka
M22	Contributions of the Climate Service Center Germany to SASSCAL	Arne Kriegsmann, <u>Torsten Weber</u>
M23	The climate services for resilient development partnership	Steve Zebiak
M24	Weather and climate services for resilient development: A policy makers and practitioners	Kanta Kumari, Ana Bucher
M25	Learn from today to anticipate tomorrow	Maria Manez
M26	WASCAL and SASSCAL - Two African science service centers to support regional climate change research and climate service provision	Jerome Tondoh, Joerg Helmschrot
M27	Cauldron and Drainpipe game	Rosalind Cornforth
M28	Showcasing climate services for health in Africa	Lucia Montoya
M29	Tbc	Madeleine C. Thomson
M30	Science Field Shops to assist farmers in developing their own adaptation capabilities: An anthropological initiative of climate services in Indonesia	Rhino Ariefiansyah

<b>Poster session 1 – Atrium area</b> <b>Wednesday, March 01, 2017, 12.30 to 13.45</b>		
Posters will be on display from February 28 to March 01, 14.00		
<b>S12</b>	<b>Examples of user initiated services</b>	
S12-P1	Climate-Fact-Sheets and further Follow up products – the success of user-initiated climate service products	Andreas Haensler
S12-P2	Socio-Economic vulnerability, adaptation to Agro-climatic risk and the potential of user-tailored climate services for the Andean Highlands: The case of Quinoa production in the region of Puno, Peru.	Manuel Valverde Bocanegra
<b>S13</b>	<b>Good Ideas that never worked</b>	
	No posters in session S13.	
<b>S14</b>	<b>National initiatives in climate services</b>	
S14-P1	A Swedish perspective on building climate services using regional climate projections	Grigory Nikulin
S14-P2	Climate products for various clients in the climate information of the South African weather service	Mthobisi Nxumalo
S14-P3	Public finance and market based instruments to improve climate resilience in Indonesia	Lilieik Sofitri
S14-P4	Tilting at Windmills: Coastal climate services to local government in South Africa	Louis Celliers
S14-P5	Weather forecast information and capacity need assessment for Nepal	Jeeban Panthi - withdrawn

<b>S15</b>	<b>Projects on the regional and trans-national scale</b>	
S15-P1	An interactive model to climate vulnerability impact assessment mapping in the health sector (Malaria disease)	Grace Koech
S15-P2	Socio-Economic vulnerability, adaptation to Agro-Climatic risk and the potential of user-tailored climate services for the Andean Highlands: The case of Quinoa production in the region of Puno, Peru.	Lizet Katerin Cristobal Romero
S15-P3	Lessons learned regarding climate service needs for local government in South Africa	Miriam Murambadoro
S15-P4	A common infrastructure for the Co-Development and provision of climate services in Latin America and the Caribbean: the Datoteca	Xandre M. Chourio
S15-P5	Climate information needs in Southern Africa: A review	Daleen Lotter
S15-P6	Implementing Drought Early Warning Information Systems (DEWIS) in the SIDS context: The Caribbean experience	Cedric Van Meerbeeck
S15-P7	Analysing regional climate change in Africa in a 1.5°C Global warming world	Torsten Weber
S15-P8	SASSCAL WeatherNet – Regional climate observation for climate service provision in Southern Africa	Joerg Helmschrot et al.
S15-P9	The extreme climate index as an innovative instrument to stimulate climate adaptation efforts in Africa	Marcello Petita et al.
<b>S21</b>	<b>Climate services business models</b>	
S21-P1	Forecast scheme of temperature-related mortality for decision-making in European regions and cities	Joan Ballester
S21-P2	Presentation on the completed quick-start projects for the WISER Programme	John Faragher
S21-P3	Emerging institutional logics of climate services	Atte Harjanne
S21-P4	Unleashing European climate services market- The EU-MACS Project	Atte Harjanne
S21-P5	The changing role of NGOs in supporting climate services: Insights from Ethiopia and Burkina Faso	Blane Harvey

S22	Climate services' added value and evaluation	
S22-P1	Development metrics for assessing the readiness of national meteorological and hydrological services in Africa to implement GFCS	Tufa Dinku
S22-P2	An evaluation of the efficiency of Malaria climate-based prediction models in Kenya	David Gikungu, et al.
S22-P3	Data evaluation for climate models	Hilppa Gregow, <u>Elisabeth Viktor</u>
S22-P4	Ease of use versus scientific accuracy in climate information: The experience of Ouranos on adaptation projects	David Huard
S22-P5	Assessing the benefits of weather and seasonal forecasts to Millet growers in Niger	Philippe Roudier, et al.
S22-P6	Presentation of framework for value for money and socio-economic benefits appraisal for the WISER programme.	David Britton, Bill Leathes
S22-P7	Economic valuation of modern and traditional climate services in Benin	Cocou J. Amegnaglo
S22-P8	Recent development of valuing climate services for agriculture in Taiwan	Hen-I Lin, et al.
S22-P9	Evaluation for the climate services in agriculture: A case study of economic benefits for Taiwanese farmers	Hen-I Lin, et al.
S22-P10	Evaluation of JPI climate activities	Dagmar Bley
S22-P11	Process monitoring in climate services	<u>Lulekwa Gqiba</u> , Alina Gruen
S23	What are effective Climate Services?	
S23-P1	Abstract on climate services	Philip Eric Bakalikwira
S23-P2	Lessons learned from failures and successes of climate services abstract	Norbert Ebegu
S23-P3	Climate risk narratives: An alternative approach to integrating climate information into decision making	Jessica Lee
S23-P4	Climate change response capabilities: The case of Waterberg district municipality in Limpopo Province	Chipo Mukonza
S23-P5	Climate services in Latin America: Bridging the global information with the regional needs to support NMHSs: The case of El Niño 2015-2016	Juan Jose Nieto



<b>Poster session 2– Atrium area</b> <b>Thursday, March 02, 2017, 12.30 to 13.45</b>		
<b>Posters will be on display from March 01, 15.00, to March 02</b>		
<b>S31</b>	<b>From data and information to knowledge</b>	
S31-P1	Water, climate, climate services and sustainable urbanisation: An Indian Metro City experience	Shailendra Kumar Mandal
S31-P2	El Niño and Malaria in Eastern Africa: The Ethiopian experience and recent advances in data and tools	Aisha Owusu
S31-P3	The use of ARC data for the determination of dagriculture production losses in West Africa: The cases of Senegal and Burkina Faso	Pierre Corneille Sambou
S31-P4	Climate information for planning and decision making for small holder farmers in Northern Ghana	Asare Kofi
S31-P5	Climatic data analysis with R-Instat	Stephen Kiplimo Kogo
S31-P6	An online course for historical climate data analysis training	James Kaleli Musyoka
S31-P8	Climate service value chain analysis for flood risk reduction: Case of Lusaka City, Zambia.	Beverly Musonda Mushili
S31-P9	Climate services for the health sector: Long-Lead El Niño forecasts to predict dengue Risk in El Oro, Ecuador	Desislava Petrova
<b>S32</b>	<b>User involvement in climate services development</b>	
S32-P1	A Model for the Co-Production of user-driven climate early warning information: Insights from the Caribbean	Roche Mahon
S32-P2	User involvement in climate services	Meliqiniso Sibanda
S32-P3	Bridging the gap between providers and users of climate services in Lake Manyara Catchment, Tanzania	Robert K.M. Sunday
S32-P4	Seven climate services to assist farmers in developing their own adaptation capability	Rhino Ariefiansyah
S32-P5	Shaping the Copernicus climate change service to provide Fit-For-Purpose information for decision-making for the health sector	Anna Deluca



S33	Climate services research and capacity building needs	
S33-P1	Capacity development and research on climate services and health: Experience from Tanzania	Hussein Mohamed
S33-P2	High temperatures shift Malaria to Highlands: An early warning for actors and community	Susan F. Rumisha
S33-P3	The provision of Indonesian climate service is urgent to strengthen to deal with global climate change	Suradi
S33-P4	Climate change related capacity development status in Nepal	Madhav Giri
S33-P5	The Salient Views on Climate Services in Africa: A focused systematic review of literature	Albert Edgar Manyuchi, <u>Coleen Vogel</u>
S33-P6	Effective capacity building for climate-resilient health systems	Rosalind Cornforth
S33-P7	Regional differences in global crop model performance: A call for improved representation of cropping systems in Sub-Saharan Africa to support the production of useful and robust climate information services	Delphine Deryng – withdrawn
S41	What can we learn from all the co-activities?	
S41-P1	Lost in translation	Vitalis Goodwell Chipfakacha
S41-P2	Climate information for adaptation response at local government level	Julia Mambo
S41-P3	Tailored climate services for smallholder farmers in Semi-Arid regions of Zimbabwe	Leonard S. Unganai
S41-P4	Mainstreaming climate information into Rwanda's climate and environment fund, FONERWA	Julio Araujo
S41-P5	User-Centricity for Multi-Model climate projections: Lessons learned from existing initiatives and research Projects in Europe	Elisabeth Viktor
S41-P6	From a clean slate to multiple options - Eliciting user needs for climate information in Malawi	Katherine Vincent
S41-P7	Tbd	Ngo Cong Chinh
S41-P8	Value chain of peri-urban wetlands' ecosystems and the climate services for the wellbeing of urban poor in a coastal metropolis in Bangladesh development	Mustafa Saroar, <u>Nuzhat Fatema</u>
S41-P9	Why do some urban poor in climatically affected coastal Bangladesh care more about protection from ecosystem disservices than harnessing benefits from ecosystem services?	<u>Mustafa Saroar</u> , Nuzhat Fatema

<b>S42</b>	<b>Effective knowledge brokering</b>	
S42-P1	Implementing climate services in South Asia – Cases from agriculture and water sector	Anshul Agarwal
S42-P2	Training the next generation of climate scientists to support climate services	Joseph Daron
S42-P3	Capacity building for climate change adaptation: Role of management education in India	Dharmendra S. Sengar
S42-P4	Guidelines on NHMSs capacity development for climate services	Yahya Abawi
S42-P5	Exploring the possibility of developing a common language for climate services and development	Anna Steynor
S42-P6	WeFarm demonstrator - Weather & Climate message analysis	Richard Lamb
S42-P7	Media advocacy communication campaign for effective climate change policy and research information service in Africa AND Promoting gender equality communication campaigns for user access to climate service in Africa	Wilson Okaka
S42-P8	Strengthening community health capacity in Malawi with climate-based health advisories	Humphreys Masuku
<b>S43</b>	<b>Local knowledge for local action</b>	
S43-P1	Climate resilience: Improving future responses to climate change and resource governance leveraging on institutional reforms	Mercy Ojoyi
S43-P2	Raising risk awareness through extreme event attribution: Case studies from India, Ethiopia and Kenya	Roop K. Singh
S43-P3	Local knowledge for local action	Uttam Ghimire
S43-P4	Indigenous knowledge and community-based research to support climate change adaptation in Eastern Himalayas	Lun Yin
S43-P5	Potential and limitations of a Web-based interface for collecting rainfall data through citizen science in Namibia and beyond	Michael Chamunorwa
S43-P6	User involvement in climate services/ Improvement of rainfall station network through volunteer observers	Tamburiro Tecla Pasipangodya

Status as of: Friday, 24<sup>th</sup> of February, 10 am CET.

**Conference organization:**

Helmholtz-Zentrum Geesthacht (HZG)  
Climate Service Center Germany (GERICS)  
Dr. Tanja Blome (tanja.blome@hzg.de)  
Mobile +49 176 4561 0761

University of Cape Town  
Melanie Rustin-Nefdt ([melanie@csag.uct.ac.za](mailto:melanie@csag.uct.ac.za))  
Mobile +27 83 943 1481

QR-code for evaluation link:

Please evaluate this conference via our survey link:

<https://www.esurveycreator.com/s/ICCS5>





# ICCS5

This conference is made possible by:

