



land surface
temperature
cci



esa

LST_cci User Workshop 2022

Agenda

Virtual Workshop

27 - 29 September 2022

Agenda v1.2 – 27 September 2022



UNIVERSITY OF
LEICESTER



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National Centre for
Earth Observation
NATURAL ENVIRONMENT RESEARCH COUNCIL



University of
Reading



IPMA



KIT
Karlsruhe Institute of Technology



ACRI
ST



Met Office
Hadley Centre



Estellus



RUB



Danmarks
Meteorologiske
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Contents

1. Welcome	1
2. ORGANISATION	2
2.1 General Information	2
2.2 Presentations	2
2.3 Poster presentation session and social event.....	3
2.4 Discussion sessions	3
2.5 Workshop breaks	3
2.6 Session Chairs.....	3
2.7 Further information	4
3. Live Workshop Joining Instructions	5
3.1 Accessing the meeting via the browser:	5
3.2 Accessing the meeting via telephone:	6
4. Live Workshop Management & Etiquette	7
4.1 Microphones & Video	7
4.2 Asking Questions.....	7
4.3 Presenting	7
4.4 Zoom Chat.....	7
5. Using Zoom - Quick Guide.....	8
5.1 Troubleshooting.....	9
6. Using Padlet - Quick Guide.....	10
6.1 Getting Started.....	10
6.2 Uploading a poster or presentation (for presenters)	10
6.3 General use	13
6.4 Padlet Links	14
7. Using Gather Town – Quick Guide	15
7.1 Links to LST_cci Workshop Gather Town Spaces.....	15
8. Agenda	18
8.1 Time zones	18
8.2 Tuesday	18
8.3 Wednesday	19
8.4 Thursday.....	20
8.5 Posters	21

1. WELCOME

The LST_cci project would like to extend a warm welcome to participants of the 2022 User Workshop 2022. This booklet provides information about the workshop for presenters, session chairs, and other meeting participants. Information about the workshop can also be found on the meeting webpages https://climate.esa.int/en/events/lst_cci-2022-user-workshop/.

The LST_cci User Workshop 2022 will be held via remote participation. The meeting is being hosted by the Met Office Hadley Centre and University of Leicester with the support of several of the LST_cci core project team and ESA.

2. ORGANISATION

2.1 General Information

The LST_cci 2022 User Workshop organising committee includes:

- Lizzie Good (LST_cci Climate Research Group lead, Met Office Hadley Centre)
- Darren Ghent (LST_cci Principal Investigator, University of Leicester)
- Karen Veal (LST_cci Project Team, University of Leicester)
- Claire Bulgin (LST_cci Project Team, University of Reading)
- Mike Perry (LST_cci Project Team, University of Leicester)
- Simon Pinnock (ESA)

The workshop comprises of two components: a 'live' component and an 'offline' component. The live component will be conducted through Zoom (<https://zoom.us/>) over four 1-hour sessions between ~11:30 and ~17:30 CEST on 27-29 September 2022 and will include oral presentations, practical sessions, and discussions. There will also be a poster session and social event that will be held on Gather Town (<https://www.gather.town/>). The offline component will take place on Padlet (<https://padlet.com/>) and will include links to recordings of the live workshop sessions, poster presentations, and some discussion, where each poster and oral presentation will have a dedicated discussion thread. The timings of the live workshop and availability of the offline workshop component is to enable as many delegates as possible to participate from across different time zones.

The full agenda for the workshop is available in the [Agenda](#) section of this information booklet.

Please note that all times in this document are in CEST.

If you require any help or information related to the workshop, please email info.lst-cci@acri-st.fr.

2.2 Presentations

The abstract deadline for oral and poster presentations for the workshop has now closed.

To ensure the workshop runs smoothly, **please upload your oral and poster presentations to Padlet by 10:00 CEST on Monday 26 September 2022**, see the [Using Padlet - Quick Guide](#) section of this information booklet on how to do this.

Presenters are asked to pay particular attention to their allotted time in the [Agenda](#), which includes both time for the presentation and for questions. Oral presentation slots are generally 20 minutes, which should include a few minutes for questions. When putting together presentation slides, please bear in mind some participants may have limited bandwidth and video content/animations may cause issues for them.

The workshop organising committee would like to record all presentations through Zoom. This is to enable oral presentations to be made available to those participating in the workshop 'offline'. The committee would also like to make slides and posters available to the public via the meeting webpages after the event. **If you would prefer that your presentation is not recorded and/or made publicly available, please email info.lst-cci@acri-st.fr to let the project team know.**

Posters can be viewed on Padlet, which will be available throughout the workshop. In addition, there will be a dedicated poster viewing session on Gather Town (<https://www.gather.town/>) on Wednesday 27 September from 16:55 CEST, which will be preceded by a 'lightening round' on Zoom

where poster presenters will have 1-2 minutes in plenary to highlight their poster. Poster presenters are encouraged to show their poster, or 1-2 slides with highlights from their poster, during this 'lightening round'. Participants are encouraged to view the posters outside of the live workshop sessions, post comments and questions, and participate in the offline discussions.

2.3 Poster presentation session and social event

The dedicated poster presentation session will take place from 16:55 CEST on Gather Town (<https://www.gather.town/>), which will be followed by a virtual social event, also on Gather Town. Owing to the upper limit of 25 individuals in each Gather Town space, three separate spaces have been created for this workshop. Poster presentations can be viewed in two of the spaces. All spaces have dedicated private spaces where participants can get together for discussions in pairs or small groups. These spaces will be accessible throughout the workshop for use during the scheduled breaks, poster session and social event. Further information on how to use Gather Town can be found in the [Using Gather Town – Quick Guide](#).

Poster presenters are kindly asked to provide their posters as both:

- a PNG or JPG file of <3Mb (to be uploaded to Gather Town by the workshop committee)
- a PDF (please upload directly to Padlet as instructed in the [Padlet - Quick Guide](#))

Both file types can be created in PowerPoint by saving your poster as a PNG file type and separately a PDF file type. Please upload the PDF version of your poster directly to Padlet, as described in [Using Padlet - Quick Guide](#). Then please email your PNG or JPG poster file version to info.lst-cci@acri-st.fr so the workshop committee can upload your file to Gather Town.

2.4 Discussion sessions

The workshop includes three discussion sessions that will be held on Thursday 29 September. Unlike for the 2020 workshop, all discussion sessions will be held in plenary and there will be no break-out discussions. Delegates are encouraged to participate in the discussion both verbally during the open discussions, but also to provide input via questions that will be posed using Slido (<https://www.slido.com/>). The results from the Slido polls will be shared during the discussion sessions. However, individual responses will not be attributed to named individuals unless the individual volunteers that information.

2.5 Workshop breaks

There are three workshop breaks each day: two 30-minute breaks and one sixty-minute breaks. The length of these breaks has been chosen to enable participants to have a meal at a time appropriate for their time zone. The workshop will run very strictly to time to preserve the length of these breaks. These breaks can also be used to visit the Gather Town spaces to meet up with colleagues.

2.6 Session Chairs

Each live session will be chaired by one of the LST_cci project team. Session chairs are asked to:

- Introduce each speaker briefly
- Keep the presentations to the allotted time
- Monitor the Zoom chat facility
- Lead/moderate discussion

It is particularly important that the live sessions keep to time as the workshop is being held virtually with people joining from different time zones. The scheduled breaks are also important to maintain participant engagement and enable meal breaks. Chairs are therefore asked to pay particular attention to keeping time during presentations and should make every effort to ensure sessions do not overrun into breaks.

Oral presentation slots in the agenda are generally 20 minutes in length, which should include time for both the presentation and questions (please check the agenda for the exact length of each presentation slot).

In general, talks should be chaired as follows:

- 1) The chair should introduce the speaker.
- 2) The session chair should give a verbal notification to the speaker two minutes before the presentation is due to finish. For example, for a 20-minute presentation, this notification should be given after ~14 minutes so that the presentation finishes after ~16 minutes, allowing ~4 minutes for questions.
- 3) The session chair should give further verbal reminders every ~1 minute to encourage the speaker to keep to time. For example, for a 20-minute presentation, reminders should be given at ~17 minutes, 18 minutes and ~19 minutes, and then finally the chair should ask the presenter to stop at ~20 minutes.
- 4) If a presenter overruns, the time for questions should be reduced such that the slot finishes approximately on time.
- 5) Session chairs are asked not to allow questions if the speaker has used up their entire time slot in the agenda (e.g. 20 minutes).
- 6) If the speaker has received verbal reminders from the session chair but has still not completed their presentation within one minute after the end of their allotted slot (e.g. within 21 minutes for a 20-minute presentation slot), the meeting hosts will cease screen-sharing and mute the presenter.

As a session chair, you will not usually be made a co-host on Zoom.

2.7 Further information

Please send all correspondence regarding the workshop to info.lst-cci@acri-st.fr. For further information about the workshop, please visit the workshop webpages at https://climate.esa.int/en/events/lst_cci-2022-user-workshop/ and the [Padlet workshop landing page](#).

3. LIVE WORKSHOP JOINING INSTRUCTIONS

The live component of the workshop will take place using the Zoom video conferencing platform. On the day, please use the following URL and password, Chrome is the recommended browser for the best experience of Zoom.

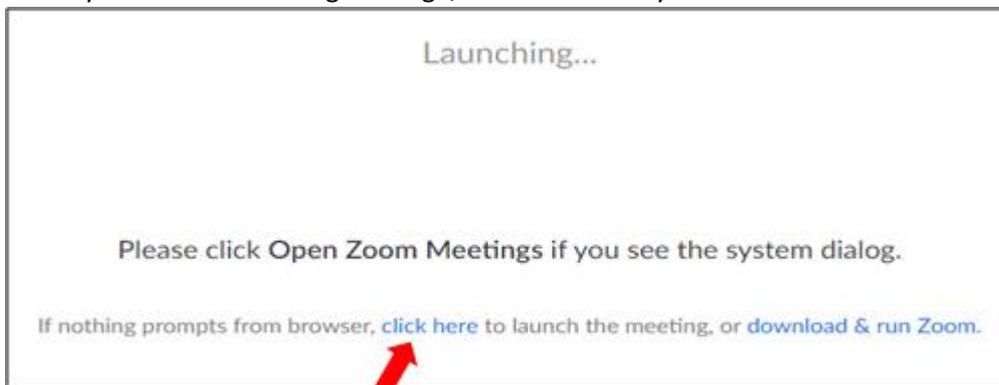
URL: <https://zoom.us/j/91922135762?pwd=eis4WHhidHY2RWE2enVYdFc2WDZhQT09>

Passcode: 007833

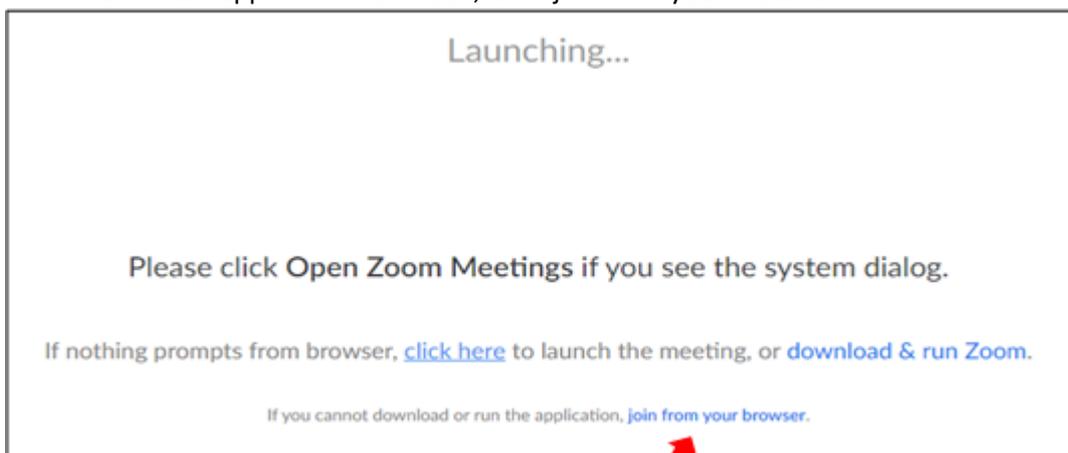
Some institutional IT systems do not permit downloading Zoom. In this case, you should be able to access the meeting via the browser option as per the instructions below. You may not see the option to 'join from the browser' unless you are using Chrome. If you encounter problems, you may need to use a different device if you have one, or dial in by telephone for audio participation only (note all presentations should be available to view on [Padlet](#)).

3.1 Accessing the meeting via the browser:

When you see the following message, click where it says 'click here'



A second line will appear on the screen, click 'join from your browser'



When prompted to enter your name, **please type your first name and surname** so it is easy to identify everyone when it comes to the discussion.

3.2 Accessing the meeting via telephone:

If you are unable to join the meeting through the Zoom app or web browser, you can join the meeting via telephone with the following Meeting ID and passcode and view the presentation slides through Padlet (see section [Using Padlet - Quick Guide](#)).

Meeting ID: 919 2213 5762

Passcode: 007833

For the full list of telephone numbers that you can use for this meeting, please see <https://zoom.us/j/91922135762>. Please note that most, but not all, of these numbers are toll-free.

4. LIVE WORKSHOP MANAGEMENT & ETIQUETTE

Please join the meeting from 11:15 CEST in advance of the 11:30 CEST start, allowing time to complete the joining process. Once you have joined, please wait with your microphone muted for the host to start the meeting.

4.1 Microphones & Video

All microphones must be muted except when presenting or when called upon to ask a question. Video feed should be switched off except when speaking, this is to minimise the bandwidth usage for those with limited connectivity.

4.2 Asking Questions

If you would like to ask a question, please indicate this by using the Zoom Chat feature. Please type a brief message indicating you would like to ask a question or enter your question directly if short. The session chair will monitor the Chat feature and call on you to ask a question as appropriate. Please note that there may not be time for all questions during the live sessions, but questions can be posted at any time on the dedicated Padlet pages for each session.

4.3 Presenting

If you are presenting, you will be asked to share your screen so that you show and control your presentation from your own computer. Please have your presentation open and ready for your time slot on the agenda. Please do not share your screen until asked to do so by the chair of the session. In the event of technical problems preventing a presenter from sharing their own screen, one of the meeting hosts will open and control the presentation on behalf of the speaker. Once your presentation and any questions are over, please stop sharing your screen so the next presenter can take over when asked.

Owing to the different time zones of participants and the need to take regular breaks during this remote event, strict time keeping will be employed during the live sessions. Presenters are requested to keep to time, allowing a few minutes for questions at the end of their agenda slot. Session chairs will give a verbal notification to indicate the presenter should wrap up their presentation in the next ~2 minutes. Further notifications will be given by the chair every ~1 minute. **Where presenters have been given several verbal warnings and have exceeded their allotted time slot, the hosting committee may terminate the presentation and mute the presenter** in order to move on to the next speaker and keep the meeting running on time. Further details are provided in the [Session Chairs](#) section of this booklet.

4.4 Zoom Chat

Please try to avoid using the Zoom chat for any scientific discussion. The Zoom chat should only be used to indicate you would like to ask a question after an oral presentation, or to highlight a technical issue during the meeting. Participants are asked to use the dedicated spaces on Padlet for each oral and poster presentation to enable all meeting delegates to view and participate in any scientific discussions, including those not dialling into the live component of the workshop.

5. USING ZOOM - QUICK GUIDE

Basic Controls

Once logged in to the Zoom meeting, move the mouse to hover over the zoom window. A tool bar like the one below will appear; all meeting options are available from there.



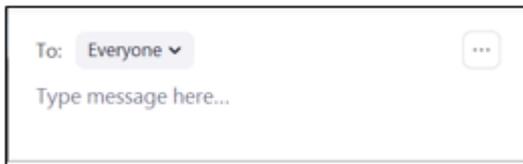
To share your screen click on 'Share Screen' in the tool bar and then select the application window (e.g. your presentation in PowerPoint) that you would like to share.

Displaying PowerPoint slides in 'slide show' mode will give the best experience for other participants viewing the slides, although 'slide show' mode may not work well if the connection bandwidth of the presenter is particularly limited. In this case clicking through each slide in the PowerPoint editing view may be necessary.

To stop sharing your screen click on 'Stop Share' at the top of your screen.



To ask a question click on 'Chat' in the tool bar, a group chat area will open. To send a message, type in the area at the bottom where it says 'Type message here...' and press 'Enter' on your keyboard to send your message. The 'Reactions' feature in Zoom will not be monitored during the workshop.



To see the names of participants currently in the meeting, click on 'Participants' in the bottom tool bar. A list of names will open.



To control your audio feed click on the up arrow to the right of the Mute/unmute button. This will show the options available to you for both speaker and microphone audio source.

If you hear audio echo or audio feedback during the meeting, there are three possible causes:

1. A participant has both the computer and telephone audio active
2. A participant has computer or telephone speakers that are too close to each other
3. There are multiple computers with active audio in the same room

If echoes become a problem on the day you will be asked to check your audio settings and ensure there are no other active audio devices on in the same room.

5.1 Troubleshooting

If you have trouble receiving audio in Zoom you may find these links helpful:

- <https://www.thewindowsclub.com/no-sound-in-chrome/>
- <https://www.guidingtech.com/fix-google-chrome-sound-not-working-windows-10/>

If you have trouble getting your microphone to work in Zoom, you may find this link helpful:

- <https://us02web.zoom.us/wc/support/mic>

6. USING PADLET - QUICK GUIDE

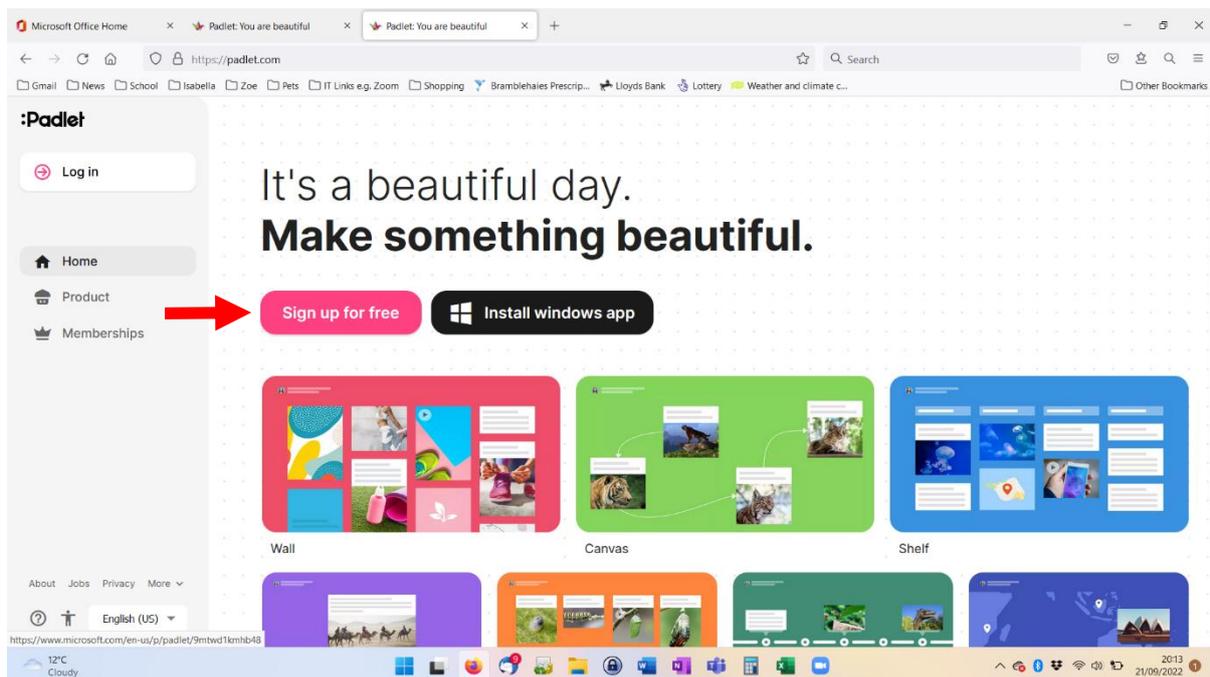
Padlet is a piece of software that provides a space for gathering and sharing ideas and files. The LST_cci User workshop is using the software to provide

- 1) Information about the LST_cci User Workshop
- 2) A space where presenters can upload their oral and poster presentations
- 3) A space where meeting participants can view presentations and posters, and hold offline discussions and ask questions

Separate 'Padlets' have been created for each live workshop session (one Padlet is similar to one webpage). Each presentation within a session will have a dedicated post where the slides will be available, and related comments and discussion can take place (similar to Facebook). Information about the different workshop Padlets can be found below in the [Padlet Links](#) section of this booklet.

6.1 Getting Started

It is recommended that all delegates – including non-presenters – set up a free Padlet account, which can be done very quickly and easily. Note that an account is not required to participate in the workshop, and you will still be able to view content and comment. However, it will help to attribute any comments and questions and keep discussions clear. You can sign up to Padlet at <https://padlet.com/> by clicking on 'sign up for free' as shown below.



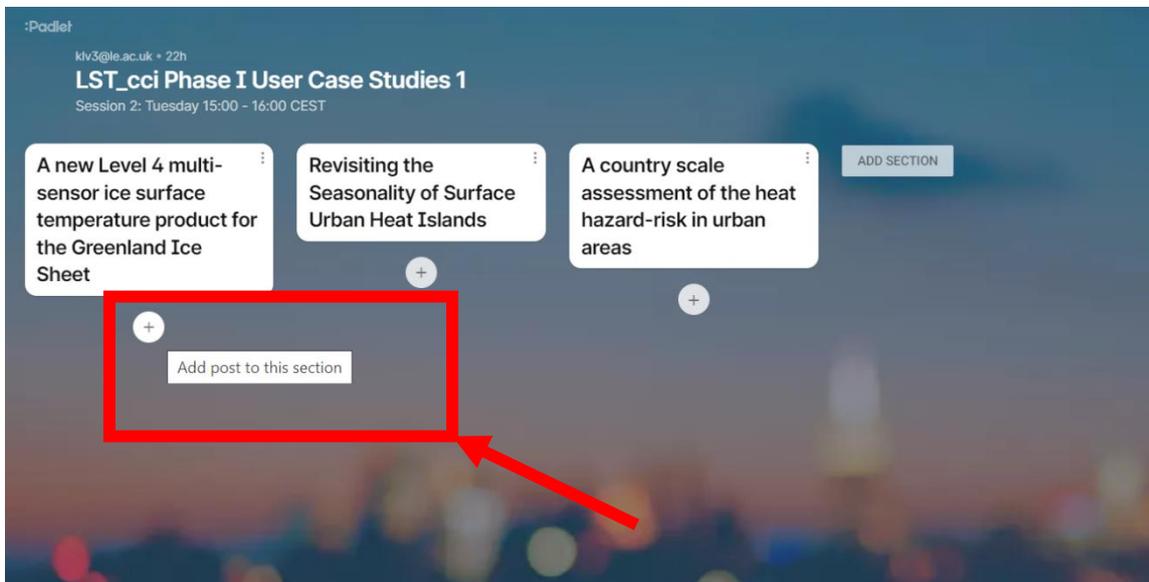
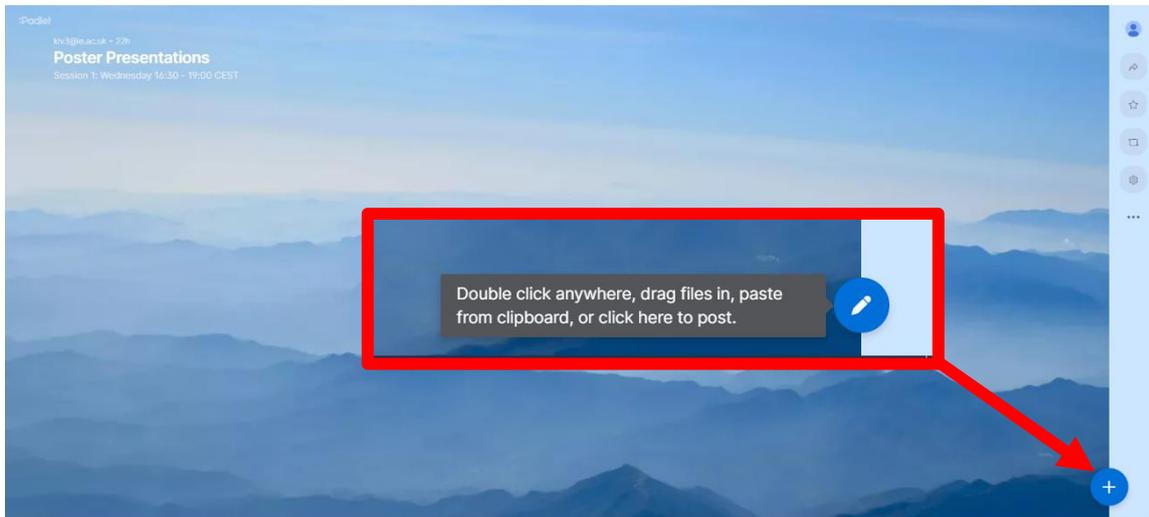
6.2 Uploading a poster or presentation (for presenters)

If you are uploading a poster, please first save it in PDF format, as this allows much better viewing on this platform – it is not possible 'Zoom in' on a poster in PowerPoint but this is possible with PDFs. It is not necessary to convert PowerPoint presentation slides to PDF as a PowerPoint slide show works very well in Padlet.

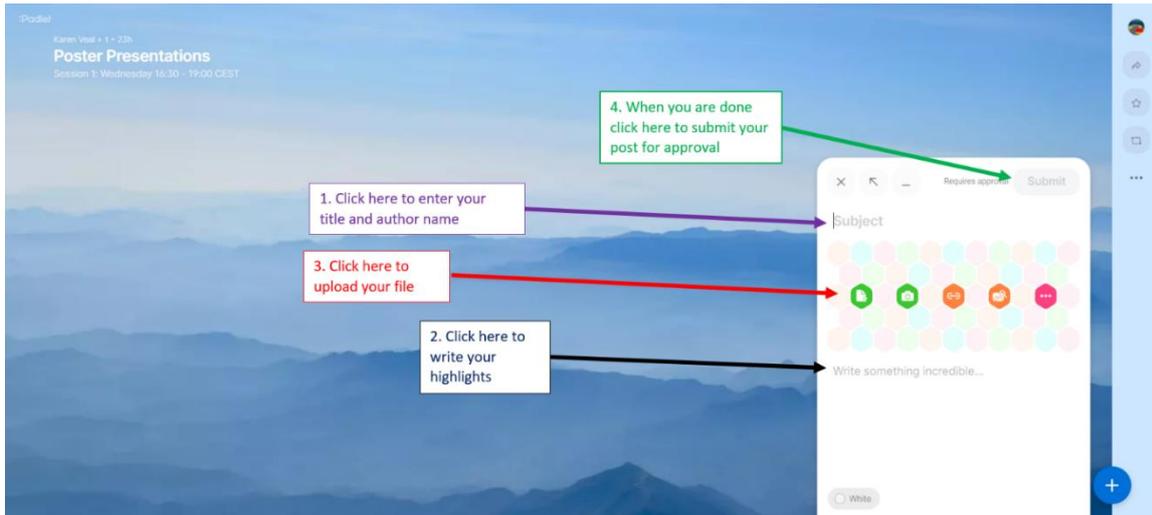
To upload your poster or presentation follow these steps:

1. Go to the Padlet board (or page) for your session - see [Padlet Links](#) section.

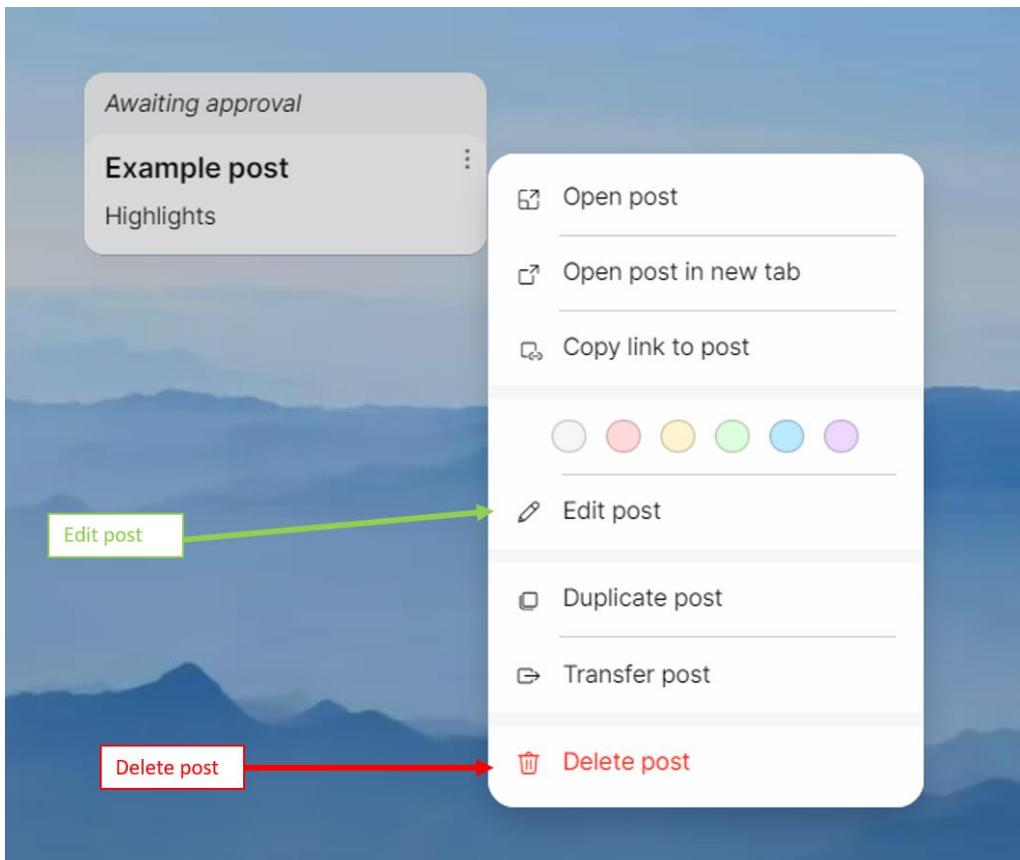
- Click the '+' sign to create a new post. This will either be in the bottom right-hand corner in a pink circle or in a grey box if the Padlet has columns, as shown below.



- For the post title, please use the title of your presentation with your name in brackets (e.g. "Findings from the LST_cci User Requirements Assessment (Lizzie Good)"). We recommend you also add three highlights or bullet points in the post where it says 'write something' to aid post navigation and encourage participants to view your presentation.



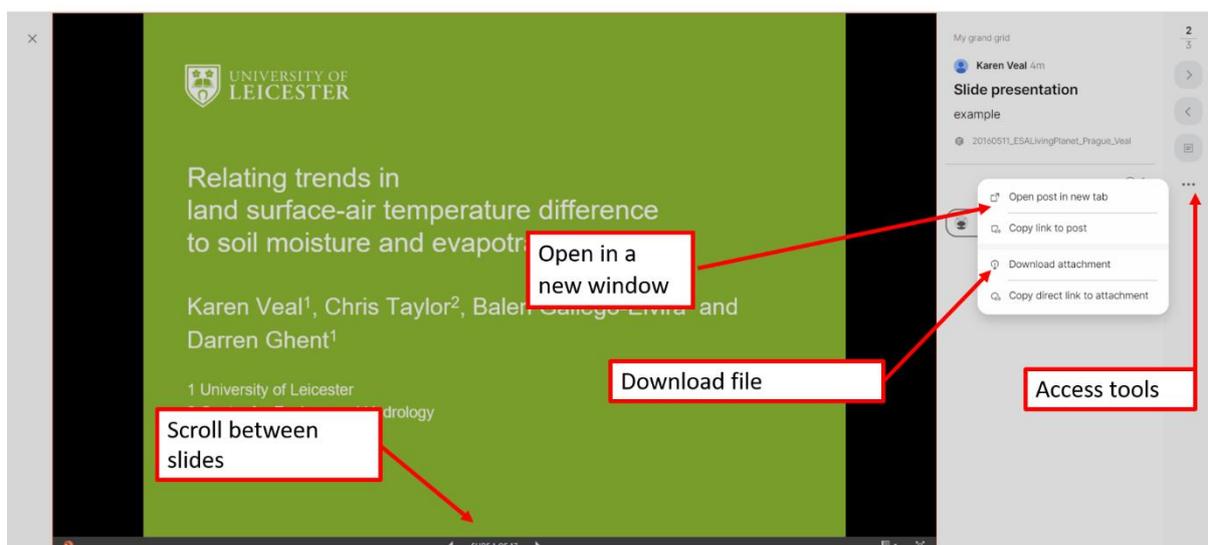
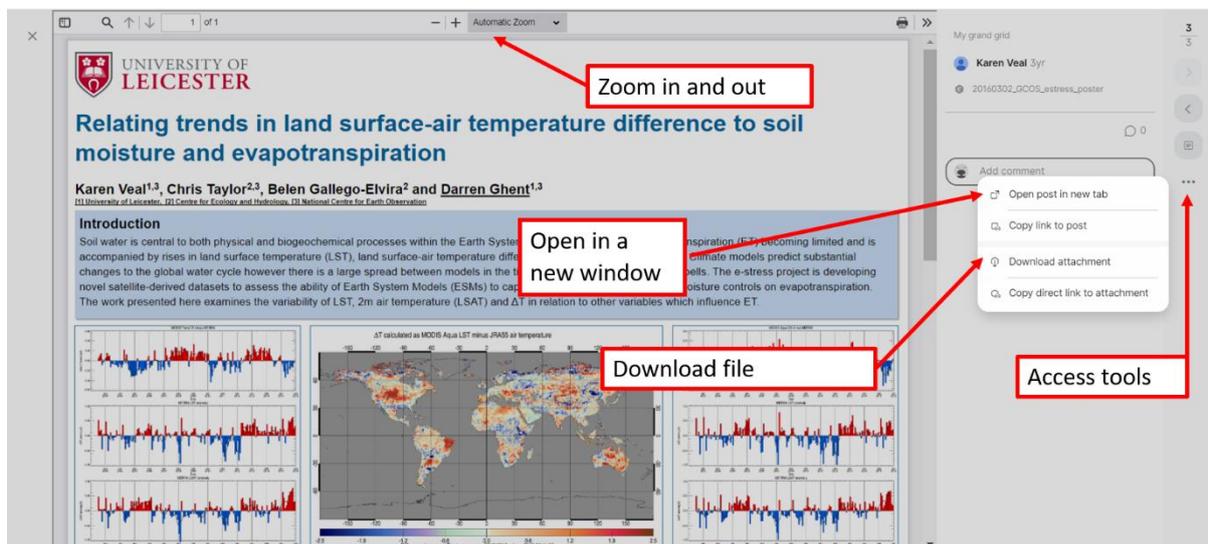
4. To upload your file, click the up arrow (highlighted in the image above with a red arrow), which will give you a panel at the side with the option to 'pick file'.
5. You can then find and upload your presentation slides or PDF poster.
6. Once you have finished editing your post, click on the 'submit' button at the top righthand corner.
7. Posts need approval by the organising committee; once approved they will be visible to all workshop participants.
8. You can edit or delete a post you have created by first clicking on the three dots at the top righthand corner of your post then selecting edit or delete as shown below.

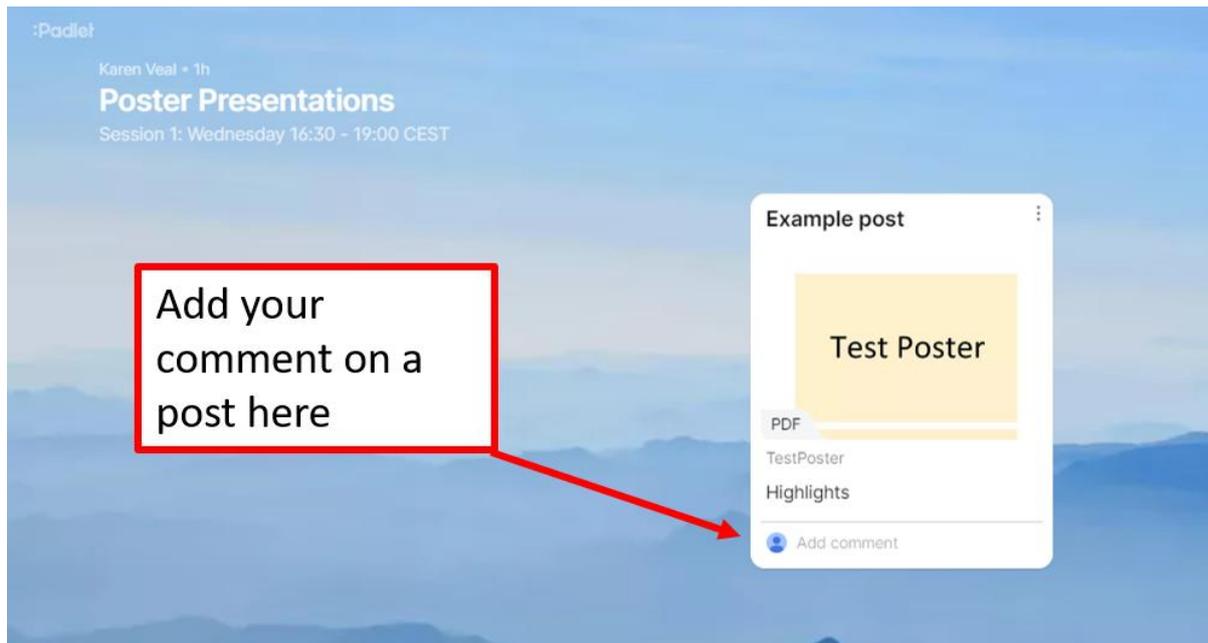


6.3 General use

To facilitate the workshop running smoothly, we ask that if possible, **all posters and presentations should be available on the Padlets from Monday 26 September 2022**. They will remain on the Padlets until 30 October 2022. After this date, the presentations and posters will be archived to the LST_cci workshop webpages. Links to each workshop and poster Padlet are provided below. All Padlets are linked from the main workshop [Introduction Padlet](#). Each live session will be recorded in Zoom and the link to a session recording will be added to the relevant Padlet shortly after the session has finished.

An uploaded file in a Padlet post can be expanded by clicking on it; from here you can scroll between slides in a presentation or zoom in on a poster (provided it was uploaded as a PDF). There is also the option to open the uploaded file in a new window or to download it. Comments and questions can be posted below the relevant presentation or poster (these do not need to be approved like posts).





6.4 Padlet Links

Separate Padlets (essentially webpages) have been created for each session in the agenda. The links are provided in the agenda section of this document. To enable easy navigation to the different Padlets, there is also a separate Padlet 'Landing Page' with links to all other Padlets for the workshop.

Link to Padlet 'Landing Page': <https://padlet.com/LSTcciWorkshop2022/tms1cvyc3p521wxf>

7. USING GATHER TOWN – QUICK GUIDE

The LST_cci workshop is trialling the use of Gather Town to facilitate meetings and discussions between workshop participants during the scheduled breaks each day, and the poster viewing session and social event on Wednesday 28 September. Gather Town is a virtual complex that you can explore using an avatar. If you choose to, you can use your avatar to interact with other avatars within the Gather Town space. You can converse and share your screen, similar to in Zoom and MS Teams, and private spaces are provided to enable you to interact with one or more specific people where you can only hear/see each other within that space. It is recommended that Gather Town is used with Chrome or Firefox as your browser for the optimal experience.

The LST_cci workshop has three spaces within Gather Town; each space has a limit of 25 people. Spaces #1 and #2 have poster rooms where you can view and interact with the posters and their presenters. Space #3 does not have a poster room, but an extra lounge room is included to provide additional private spaces if needed.

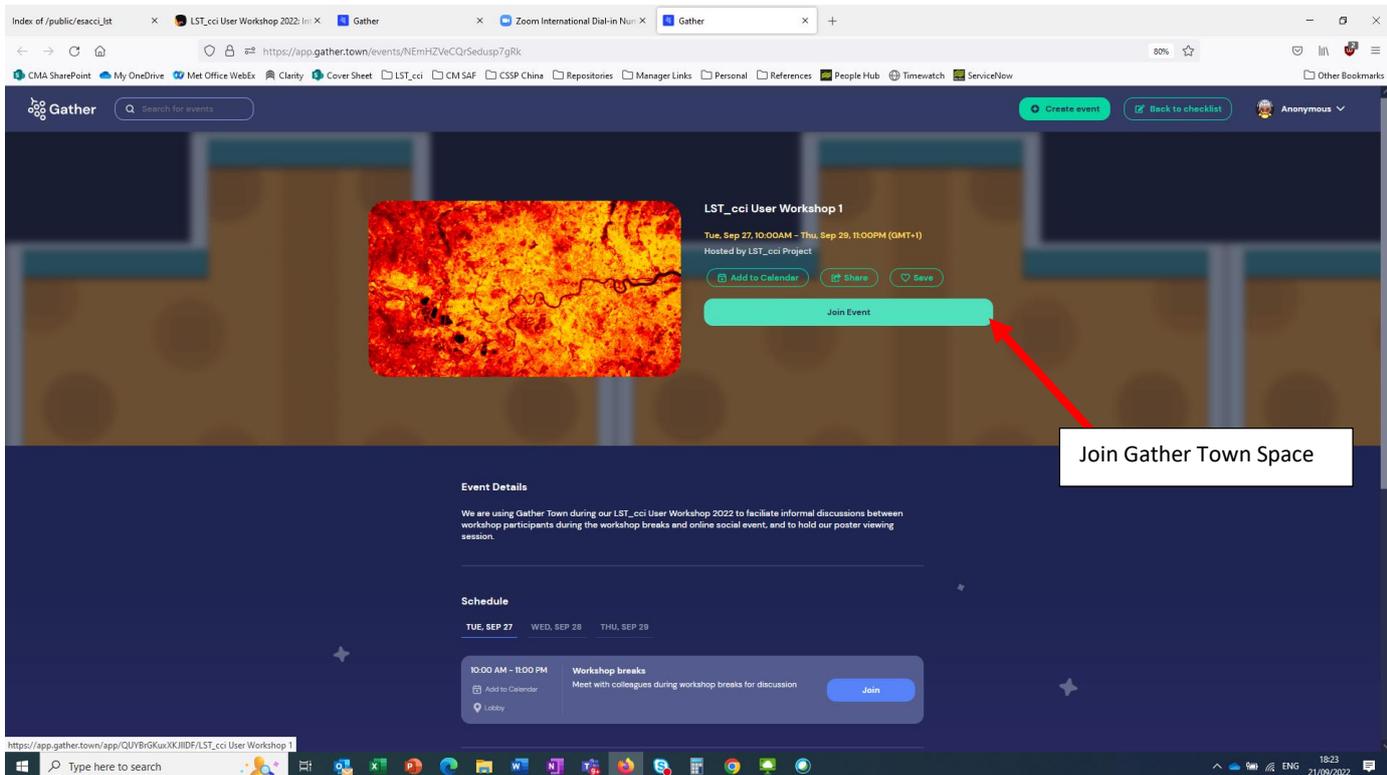
Please prioritise using Spaces #1 and #2 and only use Space #3 if Spaces #1 and #2 are at capacity. If you find you cannot enter a space, it is likely this space is already at capacity so please try one of the other spaces.

7.1 Links to LST_cci Workshop Gather Town Spaces

The links provided below are the landing pages for each of the three Gather Town spaces.

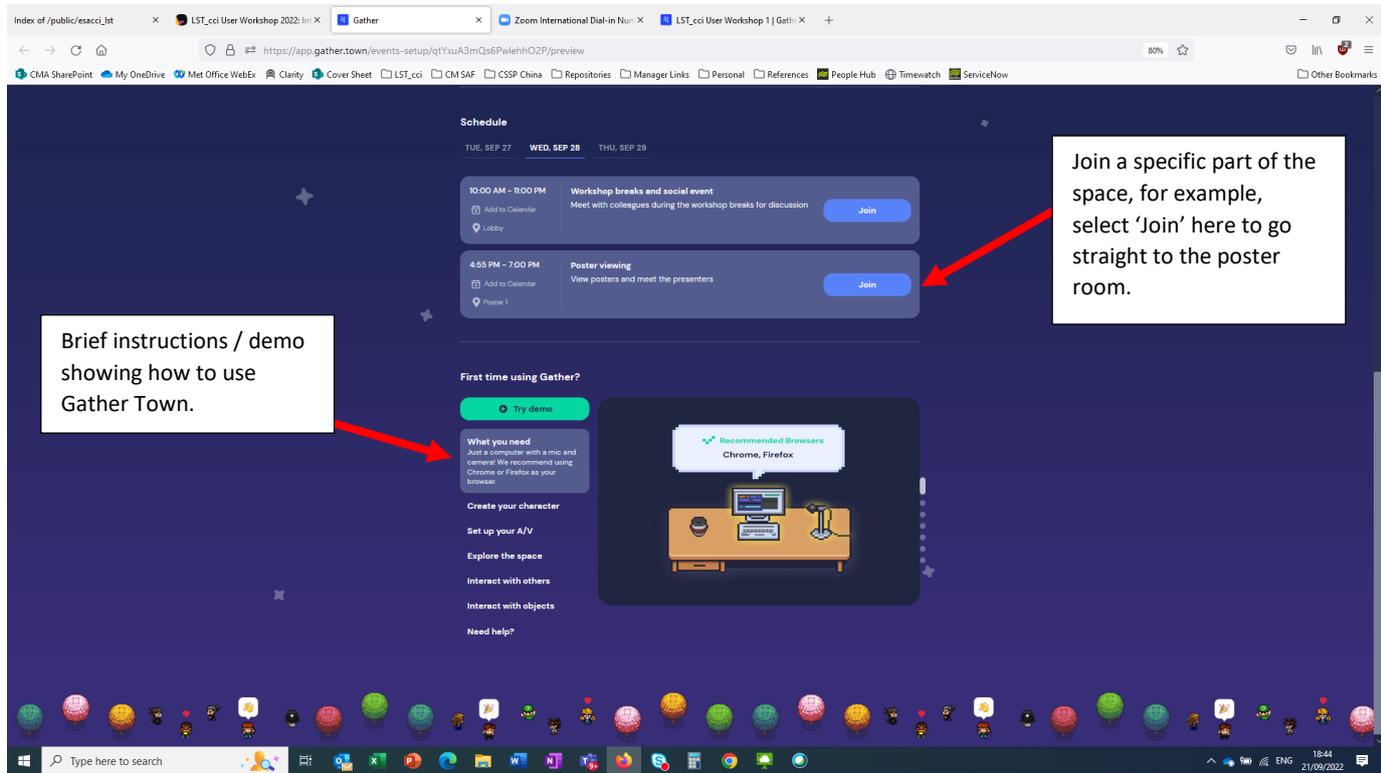
- Gather Town Space #1: <https://app.gather.town/events/NEmHZVeCQrSedusp7gRk>
- Gather Town Space #2: <https://app.gather.town/events/qtYxuA3mQs6PwlehhO2P>
- Gather Town Space #3: <https://app.gather.town/events/IPlulvLgT5qesIDJ4LEo>

If you follow one of the links above, you will find yourself on a page that looks like this:

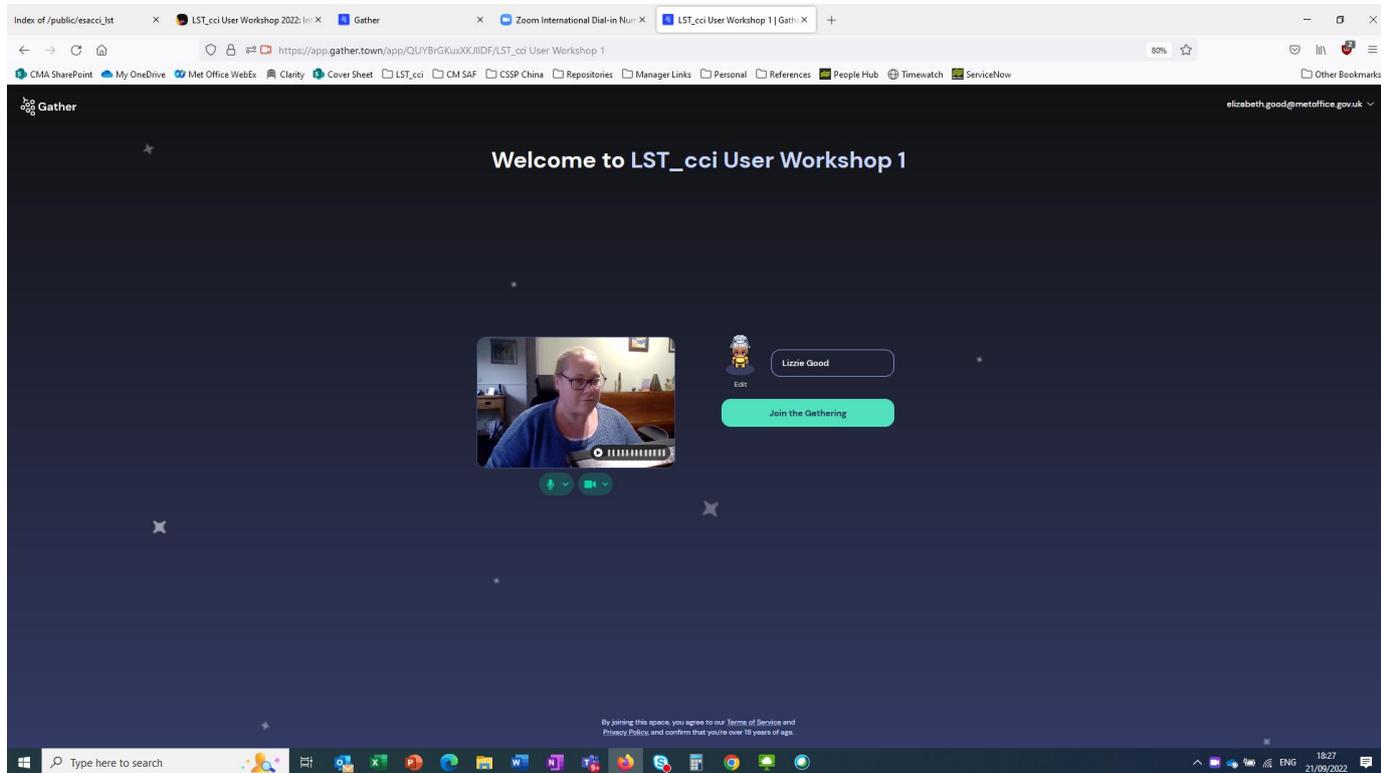


The screenshot shows a web browser window displaying the Gather Town event page for "LST_cci User Workshop 1". The event is scheduled for Tuesday, Sep 27, from 10:00 AM to 11:00 PM (GMT+1). The page features a large image of a land surface temperature map. Below the image, there are buttons for "Add to Calendar", "Share", and "Save". A prominent "Join Event" button is highlighted with a red arrow. A callout box with the text "Join Gather Town Space" points to this button. The "Event Details" section explains that Gather Town is used for informal discussions and poster viewing. The "Schedule" section shows the event on Tuesday, Sep 27, with a "Workshop breaks" session from 10:00 AM to 11:00 PM, which includes a "Lobby" and a "Join" button.

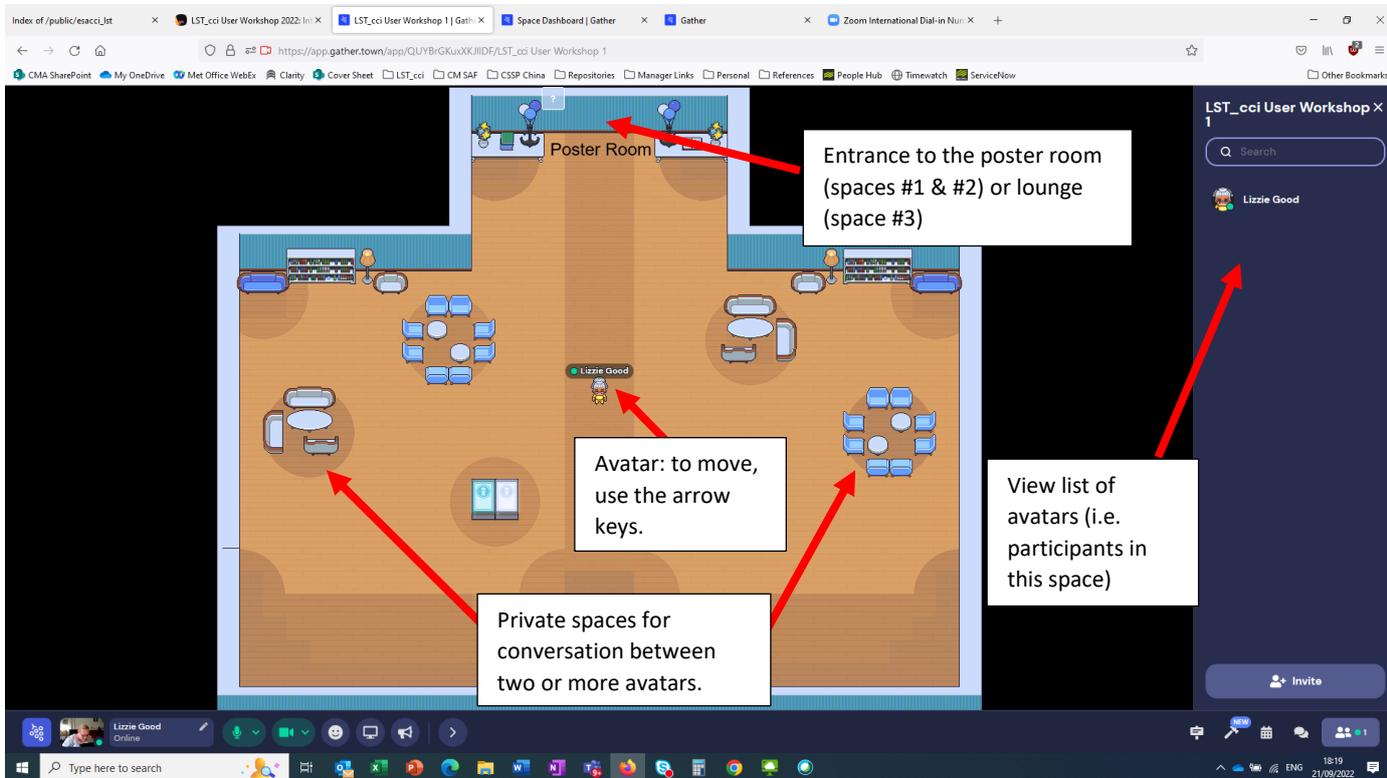
If you scroll down the page, you will find some very brief instructions and a demonstration on how to use Gather Town. It is highly recommended that you take a look at this information before you join the space, which should only take a few minutes.



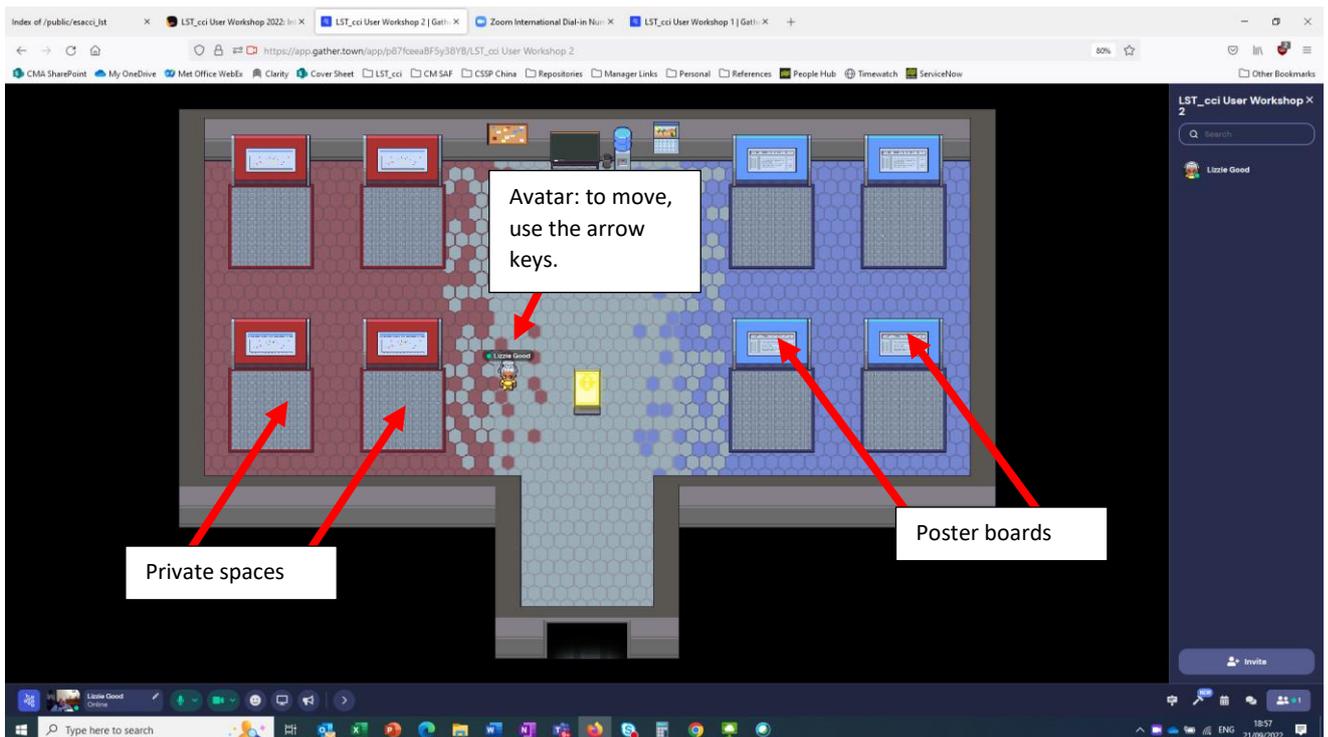
As you join the space, you will be asked for your name and for your speakers / microphone settings.



After clicking on 'Join the Gathering' in the screen above, you will enter the space, as shown below. All the LST_cci workshop spaces look virtually identical. Private spaces are marked by shading on the floor and seating.



To enter the poster or lounge room, simply walk your avatar through the wall where indicated. You will then find yourself in a new room. For spaces #1 and #2, this will be the poster viewing rooms, as shown below. Each poster room has eight poster boards, as shown in the screenshot below, which each have their own private space for discussion around the poster.



8. AGENDA

8.1 Time zones

All times in the agenda are in Central European Summer Time (CEST). The table below provides a guide for converting between some of the major time zones.

CEST	UK time	Romania	Delhi, India	Beijing, China	Melbourne, Australia	Pacific Daylight Time (e.g. Oregon)	Eastern Daylight Time (e.g. Washing. DC)
11:30	10:30	12:30	15:30	17:30	19:30	02:30	05:30
13:00	12:00	14:00	17:00	19:00	20:00	04:00	07:00
15:00	14:00	16:00	19:00	21:00	23:00	06:00	09:00
16:30	15:30	17:30	20:30	22:30	00:30	07:30	10:30

8.2 Tuesday

Tuesday 27 September 2022			
11:15 CEST	Start arriving at workshop		15 mins
LST_cci Project (Link to Padlet) Chair: Karen Veal			
11:30 CEST	Welcome and general information		Lizzie Good (Met Office, UK) 15 mins
11:50 CEST	Overview of the LST_cci Project and Products		Darren Ghent (U. Leicester, UK) 25 mins
12:10 CEST	ESA's CCI Programme		Simon Pinnock (ESA) 20 mins
12:30-13:00	Break		
LST_cci Data Set Development and Validation (Link to Padlet) Chair: Claire Bulgin			
13:00 CEST	Details of the LST_cci products		Karen Veal, Mike Perry, Sofia Ermida, Carlos Jiménez 40 mins
13:45 CEST	Validation of LST_cci products		Lluis Perez Planells (KIT, Germany) 20 mins
14:00-15:00	Break		

LST_cci Phase I User Case Studies 1 (Link to Padlet)			
Chair: Darren Ghent			
15:00 CEST	A new Level 4 multi-sensor ice surface temperature product for the Greenland Ice Sheet	Ioanna Karagali (DMI)	20 mins
15:20 CEST	Revisiting the Seasonality of Surface Urban Heat Islands	Panagiotis Sismanidis (RUB)	20 mins
15:40 CEST	A country scale assessment of the heat hazard-risk in urban areas	Sorin Cheval (MeteoRomania)	20 mins
16:00-16:30	Break		
LST_cci Phase I User Case Studies 2 (Link to Padlet)			
Chair: Darren Ghent			
16:30 CEST	An analysis of the stability and trends in six LST_cci datasets over Europe	Lizzie Good (Met Office)	20 mins
16:50 CEST	How indispensable is satellite LST for the statistical modelling of land atmosphere fluxes?	Sophia Walther (MPI)	20 mins
17:10 CEST	Insights into the Aerodynamic versus Radiometric Surface Temperature Debate in Thermal-based Evaporation Modeling	Kaniska Mallick (LIST)	20 mins
17:30	End of day 1		

8.3 Wednesday

Wednesday 28 September 2022			
11:15 CEST	Start arriving at workshop		15 mins
LST dataset development (non-LST_cci) (Link to Padlet)			
Chair: Sofia Ermida			
11:30 CEST	CM SAF LST and applications at MeteoSwiss	Anke Duguay-Tetzlaff (MeteoSwiss)	20 mins
11:50 CEST	Deriving Long-term Dynamics of Land Surface Temperature over Europe: Towards a daytime normalized AVHRR LST Product	Philipp Reiners (DLR)	20 mins
12:10 CEST	Ground-based experimental study into directionality of surface temperatures over different crops	Mary Langsdale (King's College London)	20 mins
12:30-13:00	Break		
Re-gridding tool demonstration and practical (Link to Padlet)			
Chair: Lizzie Good			
13:00 CEST	Demonstration of re-gridding tool	Hillel Naberik (ACRI-ST)	20 mins
13:15 CEST	Demonstration of Binder & Python Code	Mike Perry (U. Leicester)	5 mins
13:20 CEST	Practical session in break-out groups		35 mins
14:00-15:00	Break		

Uncertainties demonstration and practical (Link to Padlet) Chair: Lizzie Good			
15:00 CEST	Why are uncertainties important for users of LST data?	Claire Bulgin (U. Reading)	20 mins
15:15 CEST	Demonstration of Binder & Python Code	Mike Perry (U. Leicester)	5 mins
15:20 CEST	Practical session in break-out groups		35 mins
16:00-16:30	Break		
Poster presentations (Link to Padlet) Chair: Karen Veal			
16:30 CEST	Instructions for poster session	Lizzie Good	5 mins
16:35 CEST	Lightening round of poster presentations	Poster presenters, 1-2 minutes per poster	20 mins
16:55 CEST	Poster viewing on Gather Town		60 mins
	Social event & bring your own drink!		
19:00	End of day 2		

8.4 Thursday

Thursday 29 September 2022			
11:15 CEST	Start arriving at workshop		15 mins
Validation and application of LST data (non-LST_cci) (Link to Padlet) Chair: Lluís Perez			
11:30 CEST	Evaluation of LST_cci MODIS products with ground data measured along transects at the Valencia Test Site	Raquel Niclòs (U. Valencia)	20 mins
11:50 CEST	Land Surface Temperature and NDVI for Assessing Vegetation Stress in the data-scarce Sudano-Sahelian Region of Nigeria	Olapeju Ekundayo (U. Fort Hare)	20 mins
12:10 CEST	Detecting geothermal anomalies from space	Agnieszka Soszynska (ITC, U. of Twente)	20 mins
12:30-13:00	Break		
User requirements (Link to Padlet) Chair: Lizzie Good & Karen Veal			
13:00 CEST	Session introduction	Lizzie Good (Met Office)	10 mins
13:10 CEST	Interactive user requirements survey and discussion	Lizzie Good & Karen Veal	50 mins
14:00-15:00	Break		
LST and Climate Modelling (Link to Padlet) Chair: Mike Perry			
15:00 CEST	Use of LST-minus-T2m as a metric to measure moisture stress in vegetation	Rob King (Met Office/CMUG)	20 mins
15:20 CEST	An overview of CMIP and CORDEX and a potential role for satellite LST	Eleanor O'Rourke (CMIP)	20 mins

15:40 CEST	Discussion	Lizzie Good & Karen Veal	20 mins
16:00-16:30	Break		
Climate Services and the Future of Satellite LST (Link to Padlet) Chair: Carlos Jiménez			
16:30 CEST	Science into climate services	Emily Wallace (Met Office)	20 mins
16:50 CEST	Discussion	Lizzie Good & Karen Veal	30 mins
17:20 CEST	Final remarks	Lizzie Good & Darren Ghent	10 mins
17:30	End of day 3		

8.5 Posters

Poster presentations will be available to view on [Padlet](#).

Posters (Link to Padlet)		
Number	Presenter	Title
1	José A. Sobrino (U. Valencia)	Temperature and Emissivity Separation from MODIS multispectral TIR data
2	Jasdeep Anand (U. Leicester)	Validation of Sentinel-3 Land Surface Temperature datasets against ground-based measurements
3	Claire Bulgin (U. Reading)	Cloud detection stability of Land Surface Temperature Climate Data Records
4	Cheolhee Yoo (Hong Kong Polytechnic University)	Downscaling MODIS nighttime land surface temperatures in urban areas using ASTER thermal data through local linear forest
5	Jennifer Adams (U. Zurich)	TRISHNA T-SEC PROJECT – Thermal infrared remote sensing of complex ecosystems
6	Julia Stoyanova (National Institute of meteorology and Hydrology of Bulgaria)	LST as a biophysical driving parameter of drought and fire activity in Mediterranean climate environment
7	Sebastian Westermann (U. of Oslo, Norway)	Using LST_CCI data in the Permafrost_cci project
8	Cassandra Shaffer (Oregon Department of Forestry)	Land Exchange: A tool for climate resilient landscape management
9	Abigail Waring (U. Leicester/NCEO)	Improving temperature observations from Space to close the energy budget of the Earth in support of UNFCCC objectives and the Paris Agreement
10	Mike Perry (U. Leicester)	Using LST data to explore Birmingham's UHI. (Author Charlotte Paton)