



# CEMS Week 2021

from 2021-10-25 09:00  
to 2021-10-29 17:15

The European Commission cordially invites you to attend the virtual event "CEMS Week" on

25 – 29 Oct, 2021  
9:00-12:15 & 14:00-17:15 CEST

**CEMS Week** brings together experts, users and policy makers to participate in a discussion about the future of our service and user community.

Take part in live virtual-sessions and workshops from each of our service components, including the launch of the **Global Flood Monitoring** product and the adoption of the **Global Human Settlement Layer** as new service component.

Link to join the open General Session on Day 1: [General Session link](#)

Register and select the component sessions you intend to follow during CEMS Week: [Component Sessions registration link](#)

	Monday, October 25	Tuesday, October 26	Wednesday, October 27	Thursday, October 28	Friday, October 29		
9:00 – 10:30	<b>General Session</b>  9:00 Opening 9:30 Introduction to the CEMS services 9:40 Inside an activation: Floods and Fires in the EU	<b>EFFIS - European Forest Fires Information System (part 1)</b>  9:00 Welcome 9:10 Approval of minutes from the previous meetings; adoption of the agenda (approval of the minutes of the 42th EGFF Meetings) 9:30 Relevant activities at the Commission levels an overview at pan-European level)	<b>EDO - European Drought Observatory</b>  9:00 Opening 9:10 Outsourcing of EDO data delivery 9:25 Presentations of various EDO partners	<b>EFFIS (part2)</b>  9:00 Welcome 9:10 Analysis of the 2021 fire season at country level and at the pan-European level. (countries provide an overview of the fire season at national level; JRC presents an overview at pan-European level)	<b>EFAS - European Flood Awareness System (part1)</b>  9:00 Opening 9:10 What is new since the 15th EFAS Annual Meeting 9:50 What is next for EFAS? 10:05 A sneak preview at EFAS 5.0	<b>EFAS - European Flood Awareness System (part2)</b>  9:00 Opening 9:05 Everything you wanted to know about: <ul style="list-style-type: none"> <li>GFM</li> <li>ECFAS</li> <li>TAMIR</li> <li>SEE-MHEWS</li> </ul> 10:05 Parallel breakout sessions: "Hydro-Meteo Data"	
	<b>10:30-10:45: Coffee break</b>						
10:45 – 12:45	10:45 Supporting the Green Deal with CEMS 11:45 Innovation in Disaster Risk Management	10:45 Analysis of the 2021 fire season at country level and at the pan-European level (countries provide an overview of the fire season at national level; JRC present	10:45 Ecosystem impacts in Europe 11:05 Drought in wet countries, development of Drought Management plans, Flanders Environment Agency 11:25 EDORA project 11:45 Discussion on Drought Risks and Impacts	10:45 Update on Wildfire risk assessment at pan-European level? 11:15 Updates from other DGs 12:30 AOB and next steps	10:45 Parallel breakout sessions "Performance" 11:25 Parallel breakout sessions "Performance" 12:05 Wrap up	10:45 Parallel breakout sessions: "Hydro-Meteo Data" 11:05 The recent floods in Germany, Belgium and Luxemburg in July 2021 12:05 Wrap up	
<b>12:45-14:00: Lunch break</b>							
14:00 – 15:30	<b>General Session</b>  14:00 Technological innovation and service evolutions to CEMS 15:00 Research and Applications: H2020 Presentations	<b>GHSL - New CEMS Component: Exposure Mapping</b>  14:00 Opening 14:10 The Global Human Settlement Layer (GHSL): Concepts, Methods and Applications 14:40 Essential Societal Variables for disaster risk management, urbanisation, and sustainable development	<b>Mapping (part 1)</b>  14:00 Opening 14:10 Ice-breaker 14:25 Extreme events of summer 2021: how to increase preparedness and recovery to wildfires and floods. 15:05 Aligning CEMS Service to Disaster Management Phases	<b>GDO - Global Drought Observatory</b>  14:00 Opening 14:10 New Data download function 14:25 Drought watch East Africa 14.45 Southern South America Observatory 15.05 Highlights of the GAR Report on Drought	<b>Mapping (part 2)</b>  14:00 Opening 14:05 Everything you wanted to know about the new RRM products! 14:35 Breakout Sessions: opportunity to share ideas and expectations about the future of CEMS. 15:10 New CEMS interactive tools: a live tour.	<b>Global Flood Awareness System &amp; Global Flood Monitoring</b>  14:00 Opening 14:10 GloFAS - highlights of the last year 14:30 GFM - Global Flood Monitoring	<b>Networking session</b>  14:00 Networking meetup introduction 14:10 Parallel Breakout Groups: <ul style="list-style-type: none"> <li>#1: Scientists with CEMS</li> <li>#2: Working for Copernicus and the Commission</li> <li>#3: How to become a CEMS User</li> </ul> 14:50 Wrap up and Thank you (15:00 CLOSE)
	<b>15:30-15:45: Coffee break</b>						
15:45 – 17:15	15:45 Research and Applications: H2020 Presentations 16:50 Wrap up and overview of the coming sessions	15:45 Everything you want ed to know about the new GHSL data release 2021 16:20 How is GHSL used in CEMS today? Experiences from CEMS services 16:45 How will the new service work? 16:50 Question & Answers 17:05 Wrap Up	15:45 Willing to contribute to the service effectiveness? 16:05 CEMS Mapping evolution cycle - example: fire hazard modelling 16:20 Possibility to integrate products in the workflow 16:40 Synergies and complementarities between CEMS and Early Warning Systems 17:05 Wrap up	15.35 The National Drought Mitigation Center 25 Year of Drought Services and Counting, M Svodoba 15:50 Population exposure, J Spinoni 16:30 Discussion Session, on AI opportunities	15:45 Have your say! Quiz 16:05 CEMS at work for you! 16:25 The importance of product validation 16:50 Listening to our users 17:05 Wrap up	15:45 CEMS Hydrological Data Collection Centre 16:00 A first glimpse into GloFAS 4.0 16:25 Global use case and applications 17:00 Closing of the meeting	

# How to register

1) Login with your ECAS credentials from this link: <https://webgate.ec.europa.eu/cas>. You can just use the password, no need to authenticate with your mobile. If you are new to ECAS you can create your account [here](#).

2) Once you are logged in, you can open the link below, it should drive you directly to the [registration page](#)

If this is not working pls change your browser and if you do not manage, please contact [JRC-E1-SECRETARIAT@ec.europa.eu](mailto:JRC-E1-SECRETARIAT@ec.europa.eu)

Monday, October 25 (morning)	
<b>General Session</b>	
9:00 – 9:30	<b>Opening</b> JRC: Dan Chirondojan DEFIS: Matthias Petschke ECHO: Hans Das
9:30 – 9:40	<b>Introduction to the CEMS services</b> <i>(by Peter Salamon)</i>
9:40 - 10:30	<b>Inside an activation</b> <ul style="list-style-type: none"> <li>9:40 – 10:05: July floods in Germany and Belgium (by Vera Thiemig, Jean-Francois Pekel, Peter Spruyt)</li> <li>10:05 – 10:30: Forest fire season in summer 2021 (Jesús, Jean-Francois)</li> </ul>
<b>10:30-10:45 Coffee break</b>	
10:45 - 11:45	<b>Supporting the Green Deal with CEMS</b> (moderator: Tom de Groeve) panel discussion, 4-max 5 panelists, pre-cooked questions, slido questions from the audience) <ul style="list-style-type: none"> <li>Panelist 1 (tbd)</li> <li>Panelist 2 (DG CLIMA)</li> <li>Panelist 3 (Filip Meysman, Uni Antwerpen)</li> <li>Panelist 4 (tbd)</li> </ul>
11:45 - 12:45	<b>Innovation in Disaster Risk Management</b> <ul style="list-style-type: none"> <li>11:45 – 12:00: The Global Human Settlement Layer as the new exposure mapping component in CEMS (by Thomas Kemper)</li> <li>12:00 – 12:15: Introducing the new Global Flood Monitoring Product (by EODC)</li> <li>12:15 – 12:30: Social Media for Disaster Risk Assessment (by Valerio Lorini and Paola Rufolo)</li> <li>12:30 – 12:45: Q&amp;A</li> </ul>

Monday, October 25 (afternoon)	
<b>General Session</b>	
14:00 – 15:00	<b>Technological innovation and service evolutions to CEMS</b> (panel discussion, 4-max 5 panelists, pre-cooked questions, slido questions from the audience) <ul style="list-style-type: none"> <li>Panelist 1 (Marc Dowell, JRC)</li> <li>Panelist 2 (tbd)</li> <li>Panelist 3 (Marjan van Meerloo, DG RTD)</li> <li>Panelist 4 (tbd)</li> </ul>
15:00 – 15:30	<b>Research and Applications: H2020 Presentations (part 1)</b> <ul style="list-style-type: none"> <li>15:00 – 15:15: <i>A European Copernicus Coastal Flood Awareness System: the H2020 ECFAS project.</i> Presenter: Clara Armaroli, University School for Advanced Studies (IUSS)</li> <li>15:15 – 15:30: <i>DEEP CUBE for Copernicus.</i> Presenter: Ioannis Papoutsis, National Observatory of Athens</li> </ul>
<b>15:30-15:45: Coffee break</b>	
15:45 – 16:50	<b>Research and Applications: H2020 Presentations (part 2)</b> <ul style="list-style-type: none"> <li>15:45 – 16:00: <i>WaterForCE: A H2020 Roadmap approach for Future Copernicus Explorations for Water</i> (by Ioana Popescu and Andreja Jonoski)</li> <li>16:00 – 16:15: <i>Towards an Operational Copernicus Service: G3P - the Global Gravity-based Groundwater Product</i> (by Andreas Güntner)</li> <li>16:15 – 16:30: <i>SAFERS - Structured Approaches for Forest fire Emergencies in Resilient Societies</i> (by Conrad Bielski)</li> <li>16:30 – 16:45: <i>CEMS possible evolution towards a Water Quality Emergency Monitoring Service add-on for the Water We Drink</i> (by Ioannis Manakos)</li> </ul>
16:50 – 17:15	<b>Conclusions and looking ahead</b> (Peter Salamon)

Time	Tuesday, October 26		Wednesday, October 27	
	Session Title	Synopsis	Session Title	Synopsis
9:00	9:00 Opening	Introduction to the Workshop and to the Agenda of the day	9:00 Opening	Introduction to the Agenda of the day
	Break			
10:45				

Time	Tuesday, October 26			Wednesday, October 27	
	Session Title	Synopsis		Session Title	Synopsis
9:00	9:00 Opening	Introduction to the Workshop and to the Agenda of the day	14:00	14:00 Opening	Introduction to the Agenda of the day
	9:10 Outsourcing of EDO data delivery, Alfred de Jager	New developments to professionalize the data delivery to EDO		14:10 New developments on GDO	Presentation Data Download function, Alfred de Jager, Carolina Arias Munoz
	9:20 Presentations from EDO partners DMCSEE, ADO, ICPR	Presentations from DMCSEE, Alpine Drought Observatory, International Committee for the Protection of the Rhine		14:25 Presentations International Partners	Drought Watch East Africa, Viola Otieno, Grace Amondi, Erick Otenyo <a href="https://droughtwatch.icpac.net">https://droughtwatch.icpac.net</a>  Drought Observatory Southern South America, Guillermo Podestà  North America Drought Monitor, M Svodoba  Others to be confirmed: DMP UNCCD
	9:55 Presentations from EDO partners (cont.)	Presentations from IPMA, GlobCzech, Segura/Ebro basins			
	<b>10:30 Break</b>			<b>15:30 Break</b>	
10:45	10:45 Ecosystem Impacts in Europe, Eva Ivits, EEA	Ecosystem impacts are rarely studied as focus for drought monitoring is classically on agricultural impact, new research can help us to understand the impact of drought on our fellow species.	15:45	15:45 Presentations	High lights GAR report on drought, Roger Pulwarty  Presentation Economic assessment of drought impact, David Garcia, to be confirmed  Population exposed to drought events, Jonathan Spinoni
	11:00 The Flanders assessment framework for water use prioritisation during water scarcity, Sofie Herman, Flanders Environment Agency	Presentation of the recently developed operational drought management plan for water use prioritisation during periods of water scarcity in Flanders.		16:30 Discussion Session (AI/Forecasting?) A. Toreti	panel discussion on: AI/forecasting
	11:15 Presentation EDORA, Willem Maetens and Dario Masante.	New project requested by the European Parliament to understand better drought risks and impacts in Europe			
	11:30 Discussion on Drought Risks and Impacts	Discussion on the topics of Risk and Impacts/Multisectors; Slido with questions/answers: Questionnaires before the			

Wednesday, October 27		Thursday, October 28		
Session Title	Synopsis	Session Title	Synopsis	
9:00 – 10:30	<b>9:00</b> Opening - <i>by Peter Salamon</i>	<b>9:00</b> Re-opening of the meeting - <i>by Peter Salamon</i>	Introduction to the Agenda of the day	
	<b>9:10</b> What is new since the 15th EFAS Annual Meeting	<b>9:05</b> Everything you wanted to know about ...	<ol style="list-style-type: none"> <li>1. CEMS Global Flood Monitoring Service (GFM) – <i>by Christian Bries</i></li> <li>2. The European Coastal Flood Awareness System – <i>by tbc</i></li> <li>3. TAMIR and the link to EFAS – <i>by Calum Baugh</i></li> <li>4. SEE-MHEWS - <i>by Fredrik Wetterhall and Sari Lappi</i></li> </ol>	
	<b>9:50</b> What is next for EFAS? - <i>by Vera Thiemig</i>	Service outlook including new framework contracts, the new global flood monitoring, availability of gridded meteo data in CDS and EFAS 5.0	<b>10:05</b> Parallel breakout sessions: "Hydro-Meteo Data"	Includes 2 sessions of 20 minutes each where groups will be inverted: <ol style="list-style-type: none"> <li>1. Hydro data: 1) expansion of the hydrological data collection (i.e. reservoir data), 2) quality control and the possibility of retrieving those quality flags – <i>by Rafael Garcia</i></li> <li>2. Meteo data: Content and scope of the METEO data base and postprocessing (QC, interpolation), feedback from data providers – <i>by Markus Ziese</i></li> </ol>
	<b>10:05</b> A sneak preview at EFAS 5.0 - <i>by Cinzia Mazzetti</i>	<ul style="list-style-type: none"> <li>• new static maps</li> <li>• new meteo input</li> <li>• new hydro stations for calibration</li> <li>• changes to LISFLOOD incl. calibration algorithm</li> <li>• possible impacts on EFAS notifications (better modeling also of small scale catchments) indicative implementation timeline</li> </ul>		
<b>10:30-10:45: Coffee break</b>		<b>10:30-10:45: Coffee break</b>		
10:45 – 12:45	<b>10:45</b> Parallel breakout sessions "Performance"	<b>10:45</b> Parallel breakout sessions: "Hydro-Meteo Data"	Repetition of previous breakout session, with inversed groups.	
	<b>11:25</b> Parallel breakout sessions "Performance"	<b>11:05</b> The recent floods in Germany, Belgium and Luxemburg in July 2021  <i>Presentations by Margret Johst and Jan Verkade</i>  <i>Discussion session lead by Peter Salamon</i>	<ol style="list-style-type: none"> <li>1. Presentation: analysis of the event from the national point of view, first feedback on EFAS performance, what should be improved (in general as well as for EFAS)</li> <li>2. Discussion session: possible discussion items include what happens after the EFAS notifications have been send out? How to communicate during/after crisis? (joint communication strategy) Do we need to revise the restricted data access policy? etc.</li> </ol>	
	<b>12:05</b> Wrap up - <i>by Peter Salamon</i>	Wrap up of the first day and group picture	<b>12:05</b> Wrap up and EFAS meeting closure - <i>by Peter Salamon</i>	Wrap up of the second day.

Time	Tuesday, October 26		Wednesday, October 27	
	Session Title	Synopsis	Session Title	Synopsis
14:00	14:00 Workshop Opening	Introduction to the Workshop and to the Agenda of the day	14:00 Opening	Introduction to the Agenda of the day
	14:10 Ice-breaker	Let's know each other!	14:05 Everything you wanted to know about the Copernicus Risk and Recovery Service. What is possible?	In this session we will provide some practical example of RRM products that were produced in the last year since the launch of the service. Users will learn about some of the flex and standard products.
	14:25 Extreme events of summer 2021: how to increase preparedness and recovery to wildfires and floods.	In this session we will talk with CEMS users about the recent wildfires and floods that affected EU during the summer period. We will focus on wildfires and floods showing how Rapid Mapping and Risk & Recovery can support with prevention, preparedness and recovery.	14:35 Breakout Sessions: an opportunity to share ideas and expectations about the future of CEMS through four parallel sessions.	Topics of the breakout sessions: 1) Use of Social Media in Disaster Risk Management 2) Adding more analysis to the CEMS services and products 3) New proposals for the On-Demand Mapping Portal
	15:05 Aligning CEMS Service to Disaster Management Phases	In this session we refresh the Rapid Mapping and Risk and Recovery products aligning their features to the phases of the disaster management.	15:10 CEMS new interactive tools: a live tour	In this session new interactive tools now available will be presented: SRF online, activation viewer, AEM.
15:30	Break			
15:45	15:45 Willing to contribute to the service effectiveness?	In this session we introduce the users to the possible options they have to support the service during the different phases.	15:45 Have your say! Quiz	We have questions for you! Let's open some discussion between Mapping and users: don't be shy and have your say!
	16:05 A valuable collaboration between CEMS and Users	In this session the Validation team will present a best practice where, thanks to the feedback of the Authorised User, a different methodology to create a Risk & Recovery product was studied and compared with the current one.	16:05 CEMS at work for you!	In this session we present two imminent extensions of the service: Aerial component and AOI tool for floods.
	16:20 Possibility to integrate products in the workflow	Open discussion with users on possible ways to disseminate CEMS Mapping products.	16:25 The importance of product validation	In this session the Validation team will talk about the continuous work ongoing to verify the quality of the CEMS products and improve their features. Some specific cases will be analysed as practical examples.
	16:40 Synergies and complementarities between CEMS and Early Warning Systems	In this session we will show how the On demand and Early warning components complement each other within the Copernicus Emergency Management Service.	16:50 Listening to our users	In this session the key highlights of the breakout rooms will be presented.
	17:05 Wrap up	Closure of the day.	17:05 Wrap up	Closure of the workshop.



# Detailed Agenda GloFAS & Global Flood Monitoring

Thursday, October 28

	Session Title	Synopsis
14:00 – 15:30	14:00 Opening <i>(by Peter Salamon)</i>	Introduction to the Workshop and to the Agenda of the day
	14:10 GloFAS - highlights of the last year	<ul style="list-style-type: none"> <li>overview on GloFAS 3.1 (model, evaluation layers, forecast summary, limitations) - <i>by Ervin Zsoter</i></li> <li>From hazard to impact forecasting (principle of impact forecasting, example of exposure) – <i>by Calum Baugh</i></li> <li>Web and data services (CDS, WMS-T, ftp) – <i>by Christel Prudhomme</i></li> </ul>
	14:30 Global Flood Monitoring	<ul style="list-style-type: none"> <li>Methodology – Quick intro on GFM, explanation on the used methodology to generate flood extent maps, algorithms involved, data cube concept with SAR ARD – <i>by Christoph Reimer, Patrick Matgen, Bernhard Bauer-Marschallinger and Candace Chow</i></li> <li>Products outline – Available product output layers, uncertainties and limitations – <i>by Candace Chow</i></li> <li>Data access and demonstration – Data access, WMS-T, data download, notification system – <i>by Wolfgang Kapferer &amp; Patrick Wolf</i></li> <li>User support service – Product user manual, currently available user support service, user network creation - <i>by Luca Molini</i></li> </ul>
15:30-15:45 Coffee break		
	15:45 CEMS Hydrological Data Collection Centre <i>(by Rafael Garcia)</i>	<ul style="list-style-type: none"> <li>collection of global hydrological data; insight into the quality control</li> </ul>
15:45 – 17:15	16:00 A first glimpse into GloFAS 4.0 <i>(by Stefania Grimaldi and Peter Salamon)</i>	<ul style="list-style-type: none"> <li>new static maps</li> <li>changes to LISFLOOD</li> <li>hydrologic calibration stations</li> <li>Q&amp;A</li> </ul>
	16:25 Global use case and applications	<ul style="list-style-type: none"> <li>FFWC of Bangladesh – <i>by tbc</i></li> <li>JBA consulting – <i>by tbc</i></li> <li>DXT commodities: GLOFAS for small-scale hydro plants – <i>by Lorenzo Ramella</i></li> <li>World Food Programme – <i>by Michael Manalili and Abdel-Lathif Younous</i></li> <li>tomorrow.io – <i>by Karsten Logan</i></li> <li>Aristotle – <i>by Michaela Mikulickova</i></li> <li>Start Network – <i>by Clare Harris, Elizabeth Rees, Leonie Le Borgne</i></li> </ul>
	17:00 Wrap up	Closing of the meeting

Subject to possible changes

Tuesday, October 26

Session Title	Synopsis
<b>14:00</b> Opening	Introduction to the Workshop and to the Agenda of the day.
<b>14:10</b> The Global Human Settlement Layer (GHSL): concepts, methods, and applications	The presentation will provide an overview of the Global Human Settlement Layer concepts, the methods developed to provide global information about human settlements and the applications of the data in different domains.
<b>14:40</b> Essential Societal Variables for disaster risk management, urbanisation, and sustainable development	The Global Human Settlement Layer (GHSL) project produces global spatial information about the human presence on the planet over time. This in the form of built-up maps, population density maps and settlement maps having global coverage and spanning several decades (1975-2015 and soon 2020). Such information is essential for disaster risk management applications (i.e. exposure mapping). Despite its primary application in the DRM field, GHSL data have long supported applications in other domains prominent in the 2030 Development Agenda and its thematic agreements. This session will draw concrete cases of GHSL data support to research, policy, and action leveraging on the 2020 edition of the Atlas of the Human Planet.
<b>15:30 Break</b>	
<b>15:45</b> Everything you wanted to know about the new GHSL data release 2021	Since its first public release in 2016, the GHSL data were continuously improved. The new release will provide major improvements through combination of Landsat and Sentinel data to improve spatial resolution, time span and thematic content. The presentation will give an overview of the new features.
<b>16:20</b> How is GHSL used in CEMS today? Experiences from CEMS services	Although GHSL is officially a new member of the CEMS family, it is used by many services already in different ways. This session will present some concrete operational applications of GHSL data in CEMS services.
<b>16:45</b> How will the new service work?	In 2022 the operational production of GHSL under the CEMS will start. This session will outline how the new service will operate.
<b>16:50</b> Question & Answers	Time for questions and open discussion.
<b>17:05</b> Wrap Up	Closure of the GHSL session at the CEMS days

Subject to possible changes