





# **CEMS-Floods Analytics & Dissemination Centre**

**CEMS - EFAS Annual Meeting 2023**Prof. Ilias Pechlivanidis (SMHI)



## What do we do?



For EFAS Analytics and Dissemination Centre (DISS), it is important to:

- know what YOU, as an EFAS partner, need
- know how YOU use existing information
- understand what YOU are missing in EFAS
- collect feedback in order to improve EFAS service

Key members of the EFAS DISS are available during this meeting. Send us an email to <a href="mailto:info@efas.eu">info@efas.eu</a> or a message in the chat.



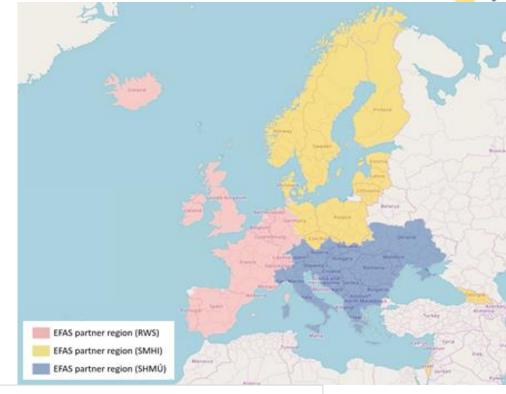


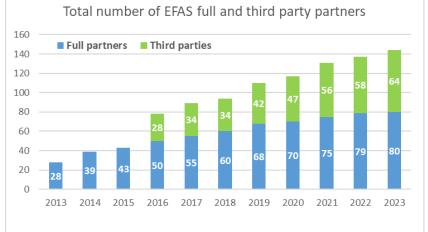
## **EFAS Partner network**

#### Currently we are:

- 80 EFAS partners
  - 1 new since the 2022 annual meeting:
    - o Waterschap Limburg (WL), Netherlands
- □ 64 EFAS third party partners6 new since the 2022 annual meeting:
  - o VERBUND Energy4Business GmbH (VERBUND BAP), Austria
  - o Servicio de Emergencias del Principado de Asturias (SEPASTURIAS), Spain
  - Agenzia Regionale per la Protezione dell'Ambiente del Friuli Venezia Giulia (ARPA-FVG), Italy
  - o Royal Meteorological Institute of Belgium (RMIB), Belgium
  - Landkreis Uckermark (LK UM), Germany
  - o Ruđer Bošković Institute (RBI), Croatia
- ☐ 1 research partner
  - EDERA project (2023-2025), UPC, Spain

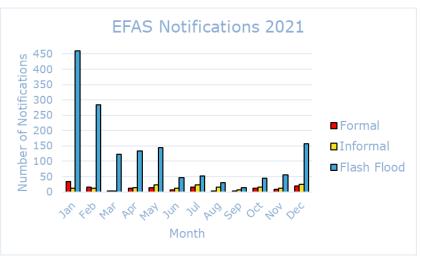


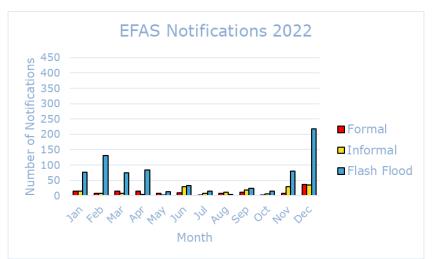


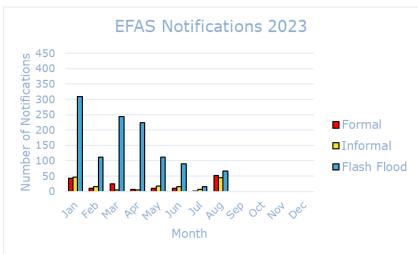




# Monitoring issued notifications 2021 - 2023







Year	Formal Notification	Informal Notification	Flash Flood Notification
2021	147	169	1540
2022	137	175	772
2023 (till Aug.)	158	156	1169

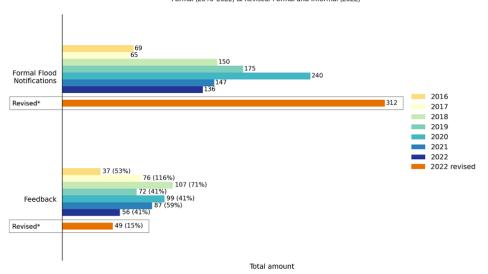




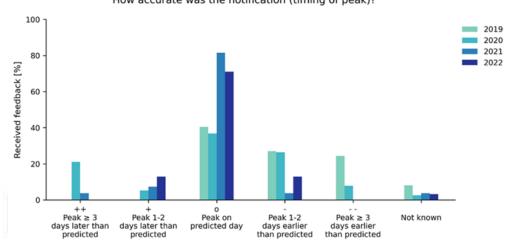
# **Analysis of notifications**

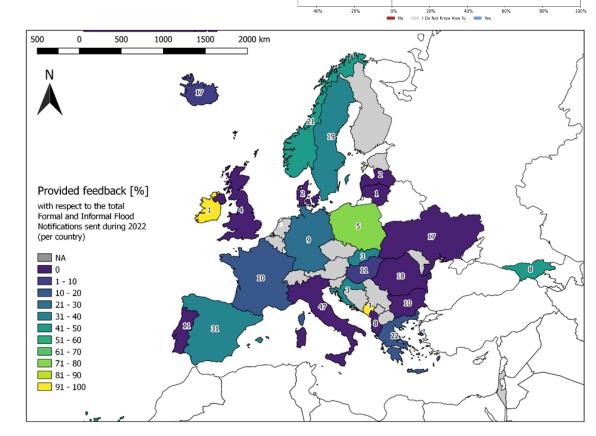
#### Issued Flood Notifications vs. received feedback

Formal (2016-2022) & Revised: Formal and Informal (2022)

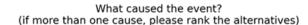


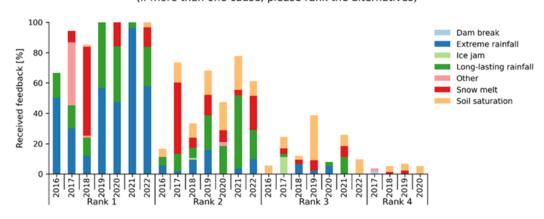
How accurate was the notification (timing of peak)?





Q1. If you are an EFAS Partner, do you generally provide feedback on notifications?:



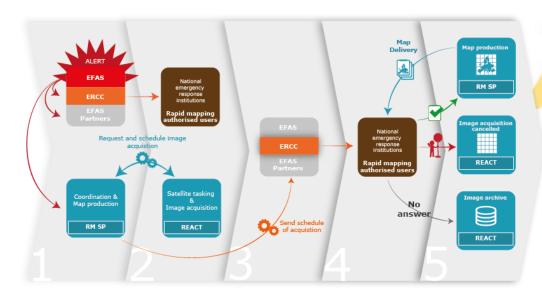


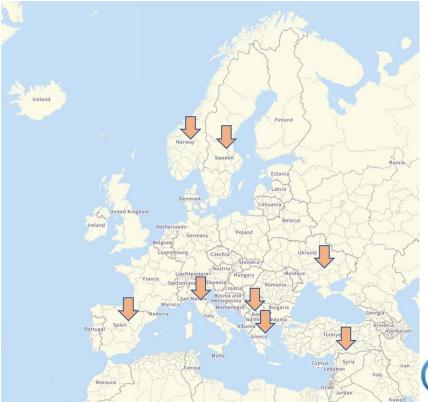
# **Pre-tasking requests**

14 requests since previous EFAS Annual Meeting

Country	Warning email to Rapid Mapping	Expected event peak	Lead time (days)
Greece	04/09/2023 09/12/2022	05/09/2023 11/12/2022	1 2
Italy	09/02/2023 16/01/2023 21/11/2022 25/09/2022	10/02/2023 18/12/2023 22/11/2022 26/09/2022	1 2 1 1
Rep. of Kosovo	17/01/2023	18/01/2023	1
Norway	20/08/2023	20/08/2023	0
Spain	03/09/2023 16/01/2023	04/09/2023 17/01/2023	1
Sweden	07/08/2023	08/08/2023	1
Turkey-Syria	14/03/2023	15/03/2023	1
Ukraine	04/04/2023	08/04/2023	4



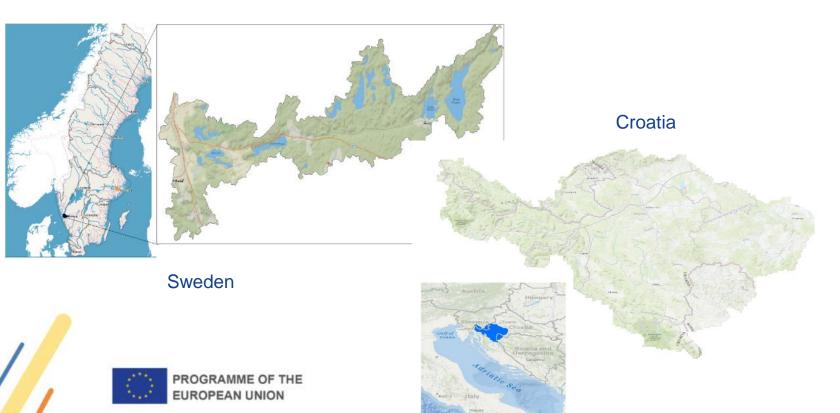


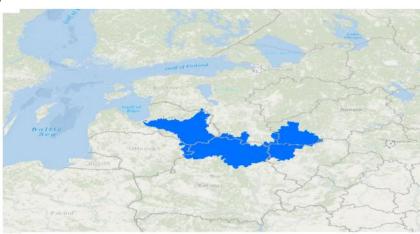


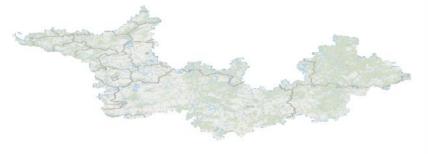


## Missed events

- 1. Flooding in the Mölndal catchment, Sweden (Västra Götalands län; river Mölndalsån; 13-19 Feb [peak 16/02])
- 2. Flooding in Croatia (Basin Danube/Sava/Kupa river basin River Kupa; 15-18 Sep [peak 16/09])
- 3. Flooding in Belgium (Basin Province du Liége/Maas river basin; 05 June)
- 4. Flooding in Latvia (Daugava basin; 09-18 Jan [peak 13/01])







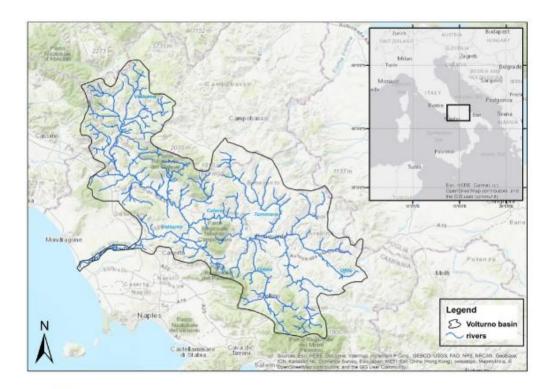
Latvia



# **Detailed Assessment report**

September 2022 and November 2022 events in south-central Italy, on the west coast of the Apennines

peninsula (the Volturno River)















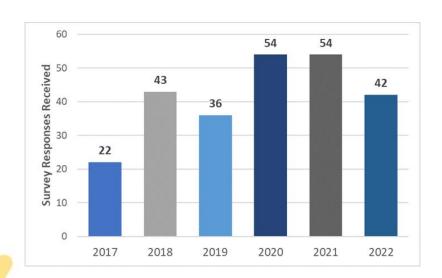




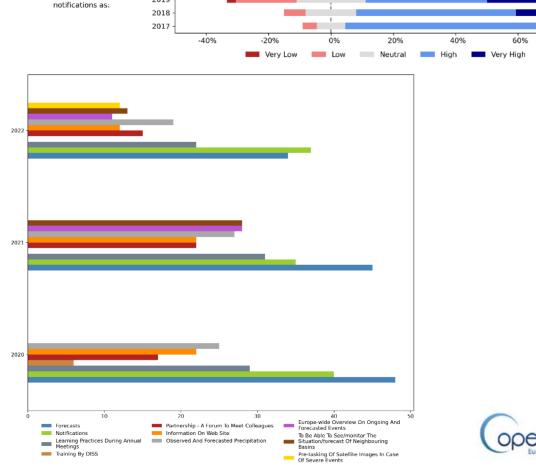
# **EFAS** survey

An annual survey in order to improve EFAS service!

All EFAS Partners will receive a link in January 2024 and request for feedback for the entire 2023.







2022 2021

2019

2018

2017

2022 2021

2018

2017

2022 2021 2020

2019

Q1. I (my organization) rate the added value of EFAS formal flood

notifications as:

Q2. I (my organization) rate the added value of EFAS informal flood notifications as:

Q3. I (my organization) rate the added value of EFAS flash flood



## **Webinars**

EFAS DISS has since last annual meeting held one webinar:

EFAS User Guide - Application and Interpretation of EFAS Products and Services (March 22<sup>nd</sup>, 2023)



8 EFAS Glossary

#### **EFAS User Guide**

Skapad av Karen ORegan, senast ändrad av nina bosshard alldeles nyss

The EFAS User Guide is meant to provide information on the European Flood Awareness System (EFAS) and its vast products and services for both the first-time users and those who want to learn more about available services and data.

Please use the shortcuts in the table of contents below or the page tree to the left for navigation to the section of interest. Questions or suggestions for improvement are welcome and can be send to **info@efas.eu**.

#### Table of Contents

#### 1 Background

- 1.1 The Copernicus Emergency Management Service
- 1.2 CEMS Floods at a glance
- 1.3 EFAS user community

2 FFAS products overview

All webinars are available at <a href="www.efas.eu/webinars">www.efas.eu/webinars</a>
Please take the opportunity to give us suggestions to webinar topics.





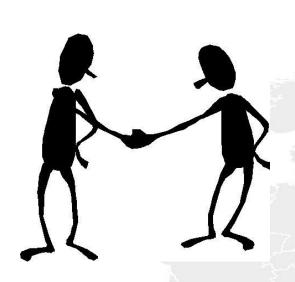
2023-03-22

This webinar explains the contents of the EFAS User Guide (EFAS User Guide - Copernicus Emergency Management Service - CEMS - ECMWF Confluence Wiki) and provides an introduction on the analysis of EFAS probabilistic forecasts.

# **Opportunity**

All EFAS partner have the opportunity to get EFAS training from the EFAS DISS.

Please contact EFAS DISS for this, <a href="mailto:info@efas.eu">info@efas.eu</a>





- 1. NEA, Georgia 2022-10, 12 October
- 2. DMI, Denmark 2022-11, 22 November
- 3. International Meuse Commission 2023-04, 18-19 April





## Partner contact information

To be able to provide you, the EFAS partner, with right information, it is essential that we have the right contact information to you.

We have three sorts of contacts (all types of contact receive notifications!):

- Administrative contact: A person responsible for EFAS partner agreement.
- **2. Technical contact:** A person working with the operational work, for example a forecaster. The request for feedback on our formal notifications is sent out to the technical contact.
- 3. Other contacts during events: Typically the whole group of officers, functional emails, etc.

Either check the information back home or talk to us during this annual meeting!

You can see which contacts are listed on EFAS homepage:
<a href="https://www.efas.eu/en/partners-list-0">https://www.efas.eu/en/partners-list-0</a> (note that you need to be logged in)





### More information?

#### Looking for an answer to your question?

#### Check first under:

- The EFAS home page (a lot of methods, products and data have been documented here)
- All EFAS layers have a legend!
- Check the video tutorials on EFAS
- Attend organized webinars
- Check EFAS Wiki EFAS User Guide

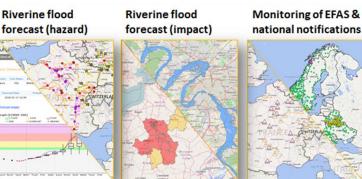






them. It explains which different types of flood warnings exist in EFAS , what are the criteria to send out EFAS warnings, who receives EFAS warnings, wh





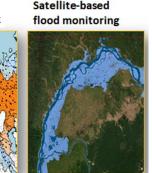




Flash flood forecast



Sub-seasonal to







## STAY CONNECTED

**EVENTS, ONLINE, and MAP VIEWERS** 



@CopernicusEMS



emergency.copernicus.eu



activations.emergency.copernicus.eu

