





# **European Flood Awareness System**

# **EFAS** Bulletin

April – May 2023

Issue 2023(3)















#### **NEWS**

#### New features

#### New Partner - Italy and Netherlands

We gladly welcome Waterschap Limburg (WL), Netherlands as new EFAS full partner and Agenzia Regionale per la Protezione dell'Ambiente del Friuli Venezia Giulia (ARPA-FVG), Italy, as new EFAS third party partner.



Figure 1: EFAS Partner Regions

#### **RESULTS**

### Summary of EFAS Flood and Flash Flood Notifications

The 17 formal and 21 informal EFAS flood notifications issued in April – May 2023 are summarised in Table 1. The locations of all notifications are shown in Figure 24 and Figure 26 in the appendix.

396 flash flood notifications were issued in April – May 2023. They are summarised in Table 2. The locations of all notifications are shown in Figure 25 and Figure 27 in the appendix.

#### *Meteorological situation*

As of April 2022, reporting of the meteorological situation by the Meteorological Data Collection Centre (MDCC) will no longer be published in the EFAS bulletin. Instead, the state of recent meteorology will be conducted by the Copernicus Climate Change Service (C3S) and published as monthly Climate Bulletins.

#### Hydrological situation

by EFAS Hydrological Data Collection Centre

#### **April**

During the month of April, there were 116 stations with exceedances, similar to the previous month. The majority of stations with exceedances are in Ukraine and Croatia (14), all of them related to water level. In Germany, there are 10 stations with exceedances in both variables. Serbia also stands out with exceedances at 10 stations.

In addition, there are station exceedances in the Czech Republic (9), Italy (8), Bosnia-Herzegovina (8), Poland (7), and Spain (6). Several countries have recorded less than five exceedances this month: Austria and Slovenia (4), Slovakia, Iceland, Norway, Hungary and Romania (3), Belgium (2), and only one station with values above the threshold on Israel and Ireland.

As for the river basins, the main river basin with values above the threshold is again the Danube, with 51 stations in 11 different countries, with Croatia and Serbia standing out with 13 and 10 exceedances respectively. The Rhine River in Germany and Austria is the next river basin with the highest number of stations (12). A total of 28 different river basins have exceedances in April.

In terms of the stations that recorded values of mean discharge above the 90% quantile, 114 exceeded this threshold in April, more than twice as many in the previous month. In April, England was the country with the most stations in this situation (23), ten times more than in March. Luxembourg, with 16 stations in this situation, and Germany with 14, are the countries with the next highest number of stations. The British stations are distributed in six different basins, highlighting the Thames River, with 16 stations in this situation. In Luxembourg, only the Rhine basin is affected, while in Germany we find three basins, also highlighting the Rhine basin. In Spain, 10 stations show

values above this quantile. In Norway, eight stations exceed this cliff. Other stations exceed the 90% quantile value in up to 14 countries.

By river basin, it is the Rhine River that stands out with 26 stations above the 90% quantile. The Danube river basin is the second with the highest number of stations over this cliff, showing twenty stations in this situation and followed by the aforementioned Thames with 16. A total of 34 different river basins have exceedances over the 90% quantile in April.

Finally, and according to the number of stations recording mean values below the 10% quantile, we can find an increase of nearly fifty percent. In the month of April, there were 79 stations with average values below this cliff, but in fewer countries, only eight.

Again this month, Spain is the country with the most stations (59), followed by France with seven stations. Italy has six stations with values below this threshold. With two stations we find Austria and Poland, while Romania, Switzerland, and Norway have only one station each in this situation.

In terms of river basin, this month the Ebro is the river with the highest number of cases, with 21 stations with an average discharge below the 10% quantile. The Duero, Guadalquivir, and Llobregat rivers have more than five stations each in the same situation. All these basins are located in Spain, where seven other rivers are affected. In total, as many as twenty-three different basins have values below this limit in Europe.

#### May

During the month of May, there were 228 stations with exceedances, twice than the previous month. Most of them are in Italy (41 stations) and Croatia (32 stations), all of them related to water level. In Slovenia and Bosnia and Herzegovina there are 24 and 23 stations with exceedances respectively. Germany, Sweden, and Austria also stand out with exceedances at more than 10 stations each.

In addition, there are 10 stations in Spain and Poland, nine stations in Ukraine and Switzerland and six in Hungary. Several countries have recorded less than five exceedances this month: Serbia (4), Slovakia and Czech Republic (3) and Iceland and Belgium (2 each).

As for the river basins, the main river basin with values above the threshold is again the Danube, with 112 stations in 10 different countries, with Croatia and Slovenia standing out with 30 and 23 exceedances, respectively. The Po River in Italy is the next river basin with the highest number of stations (33), followed by the Rhine River with 10 stations with exceedances. A total of 44 river basins have exceedances in May.

In terms of the stations that recorded values of mean discharge above the 90% quantile, 87 exceeded this threshold this month, less than the previous month. In May, England was the country with the most stations (15) in this situation. Croatia (13) in this situation, and Slovenia (12), are the countries with the next highest number of stations. The British stations are distributed in six different basins, highlighting the Thames River, with seven stations in this situation. In Croatia, three river basins are affected, notably in the Danube river the one with more stations, 11 of 13, while in Slovenia we find two basins, highlighting the Danube river basin. In Spain, 11 stations show values above this quantile. In Germany, 10 stations exceed this cliff. Other stations exceed the 90% quantile value in up to 15 countries.

By river basin, it is the Danube River that stands out with 41 stations above the 90% quantile. The aforementioned Thames river basin is the second with the highest number of stations over this cliff, showing seven stations in this situation and followed by the Guadiana river basin with 5. A total of 23 different river basins have exceedances over the 90% quantile in May.

Finally, and according to the number of stations recording mean values below the 10% quantile, in May there were 79 stations with average values below this cliff, throughout 11 different countries.

Again this month, Spain is the country with the most stations (54), followed by France (5). Poland has 3 stations with values below this threshold. With two stations we find Ukraine and Italy. Another six countries show only one station each in this situation.

In terms of river basin, again this month the Ebro is the river with the highest number of cases, with 27 stations with an average discharge below the 10% quantile. The Duero River has 8 stations, and Guadalquivir and Llobregat rivers have five stations each in the same situation. All these basins are in Spain, where other five

rivers are affected. In total, as many as 22 different basins have values below this limit in Europe.

#### Verification

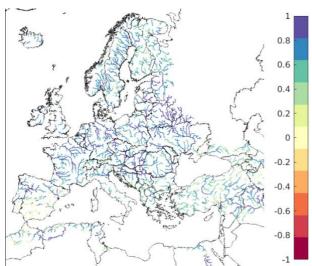


Figure 2: EFAS CRPSS at lead-time 1 day for April – May, for catchments >2000km2. The reference score is persistence of using previous day's forecast.

**Error! Reference source not found.** and **Error! Reference source not found.** shows the EFAS headline score, the continuous ranked probability skill score (CRPSS) for lead times 1 and 5 days for April - May across the EFAS domain for catchments larger than 2000km². A CRPSS of 1 indicates perfect skill, 0 indicates that the performance is equal to that of the reference, and any value <0 (shown in orange-red on the maps) indicates the skill is worse than the reference. The reference score is using yesterday's forecast as today's forecast, which is slightly different than we used previously and very difficult to beat.

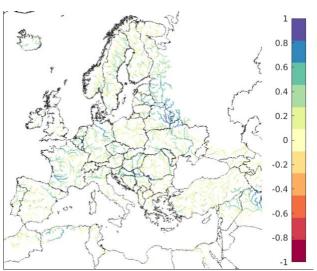


Figure 3: EFAS CRPSS at lead-time 5 days for April-May for catchments >2000km2. The reference score is persistence of using previous day's forecast.

These maps indicate that across much of Europe for forecasts are more skilful than persistence at both lead times. Regions shown in blue are those where EFAS forecasts are more skilful than persistence, with darker shading indicating better performance.

The skill of the forecast was quite good over the period, and similar to the same period last year (Error! Reference source not found.). An inter-annual variability of the scores is to be expected. The long-term trend is neutral over the first two years since the domain was extended, but there is an indication of increase in skill with EFAS 4.0, especially for the areas with generally lower skill.

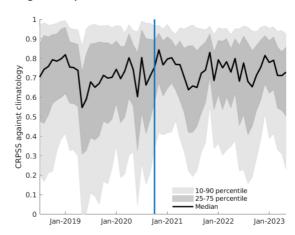


Figure 4: Monthly means of CRPSS the for lead-time 5 days for all the major river points in Europe with ECMWF ENS as forcing. Reference forecast was climatology. The skill is largest during the winter months, when there is less variation in the flow in

large parts of Europe. The blue line indicates the release of EFAS version 4.0.

#### **ARTICLES**

Flooding in Latvia – April 2023 by Richard Davies, <u>floodlist</u>

A combination of rain and melting snow and ice caused flooding in the Daugava river valley in Latvia from late March to mid-April 2023.



Figure 5: Floods in Augšdaugava Municipality, Latvia, 31 March 2023. Credit: Latvia State Fire and Rescue Service (VUGD)

The local authority in the Augšdaugava Municipality in Latvia requested a state of emergency due to the flooding, especially in Bebrene, Dvieta, Kalkūne, Laucesa, Līksna, Nīcgale, Pilskalne, Sventa and Tabore parishes.



Figure 6:Floods in Augšdaugava Municipality, Latvia, 31 March 2023. Credit:Latvia State Fire and Rescue Service (VUGD)

<u>Copernicus EMS Rapid Mapping</u> was requested to provide maps of the flood extent to support the local authorities in managing the situation.

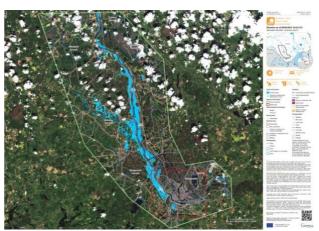


Figure 7: Copernicus EMS Rapid Mapping

On 03 April, the <u>Latvian Environment, Geology and Meteorology Centre (LVĜMC) reported</u> levels of the Daugava near Vaikuļanii stood at 6.52 metres. Near Jersikas the river was 7.24 metres. Levels remained high for several days. On 10 April <u>LVĜMC reported</u> levels were starting to fall.

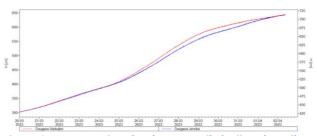


Figure 8: Daugava river levels near Vaikuļanii and Jersikas, Latvia, March to April 2023. Credit: Latvian Environment, Geology and Meteorology Centre (LVĜMC)

As of 12 April, <u>Augšdaugava Municipality reported</u> more than 200 households were affected, with estimated damages of at least one million euros. At one point a dam threatened to break in the Maļutki area, potentially flooding a further 150 houses.

Around 2,000 hectares of crops were flooded across Augšdaugava Municipality. Roads were damaged in 25 locations, which left at least 45 households isolated and only accessible by boat. Two families were evacuated.

The Latvian government later rejected Augšdaugava Municipality's request for a state of emergency. However the municipality plans to apply for other forms of government financial support for flood-affected communities. The municipality also said it is considering solutions to prevent flooding in the future,

such as the construction of protective dams and the dredging of the Daugava river.



Figure 9: Floods in Augšdaugava Municipality, Latvia, 31 March 2023. Credit: Latvia State Fire and Rescue Service (VUGD)

In early January this year, an ice jam along the Gauja River caused flooding in Ādaži in Latvia. Local government officials said 8 people were evacuated. The State Fire and Rescue Service (VUGD) assisted in evacuating the residents by boat. Some roads were closed in the area.

A few days later, ice floes along the Daugava river caused flooding in Jēkabpils municipality, from 12 January 2023. Emergency services rescued 18 people from floods on 15 January and some areas along the river were evacuated. Evacuees were able to return home the following day. Schools were closed in the area for several days.



Figure 10: Copernicus Sentinel-1A radar image captured on 01 April, showing the affected areas north of Daugavpils in western Latvia. Credit: European Union, Copernicus Sentinel-1A imagery

## Flood event in Emilia-Romagna, Italy — May 2023

by Richard Davies, <u>floodlist</u>

Devastating flooding impacted wide areas of the North Italian region of Emilia-Romagna in May 2023.

Following a period of drought, heavy rainfall on 02 May 2023 triggered flooding and landslides in several provinces, in particular Bologna, Ravenna and Forli-Cesena.



Figure 11: Floods in Emilia-Romagna, Italy, 16 May 2023. Photo Civil Protection Emilia-Romagna

The weather station at Botteghino di Zocca in the Metropolitan City of Bologna recorded 198.2 mm of rain. Levels of the Lamone River near Pieve Cesato in the Province of Ravenna, jumped by over 10 metres in less than 24 hours.

Teams from Vigil del Fuoco, Italy's fire and rescue service carried out rescues by boat and helicopter. Hundreds of people evacuated their homes. Vigil del Fuoco confirmed one fatality in a landslide in Fontanelice in Bologna Province. Another person died in the floodwaters of the overflowing Senio River in Castel Bolognese, Province of Ravenna.



Figure 12:Floods in Emilia-Romagna, Italy, 16 May 2023. Photo Civil Protection Emilia-Romagna

The Copernicus Emergency Management Service produced maps for flooded areas in Bagnacavallo, Fontanelice, Idice-Mollinella, Lamone-Faenza, Modigliana, Pianoro, and Spazzate-Sassatelli.

The region saw further rainfall on 10 May and again on 16 May, by which time rivers were swollen and the ground heavily saturated. The weather station at Modigliana, Province of Forlì-Cesena, recorded 190.2 mm of rain in 24 hours on 16 May. Brisighella in the Province of Ravenna saw 184.2 mm during the same period.

The rain on 16 May triggered dramatic and widespread flooding in the region. By 17 May, over twenty rivers and streams have broken their banks, causing flooding in 37 municipalities, in particular in the Provinces of Bologna, Ravenna, Forli-Cesena, and Rimini. Authorities also reported hundreds of landslides.

As of 20 May, more than 36,600 people had been displaced from their homes, including 27,775 in Ravenna, 4,830 in the province of Forlì-Cesena, and 4,012 in the Bologna area, according to the regional government. Fifteen fatalities were reported.

The Copernicus Emergency Management Service <u>produced maps for flooded areas</u> of Forli, Lugo, Castel Bolognese, Faenza, Cesena, Budrio, Ravenna, and Montalbano.

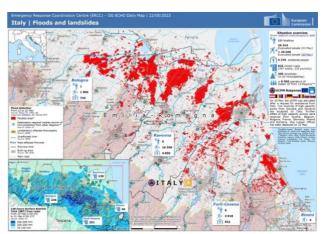


Figure 13: Emergency Response Coordination Centre (ERCC) – DG ECHO Daily Map | 22/05/2023Italy | Floods and landslides. Credit: Map produced by JRC, Copyright European Union 2023. https://erccportal.jrc.ec.europa.eu/ECHO-Products/Maps#/maps/4497)

Irene Priolo, Vice-president of the Emilia-Romagna Region with responsibility for civil protection, <u>said in a statement</u> on 24 May that 350 million cubic meters of water had fallen in the region in May, triggering 23 rivers to flood and 1,000 landslides, affecting 100 municipalities.

The Vice-president described the situation as an "epochal event, which has no equal in the whole of the country."

The dramatic impacts of the flooding led to speculation of the role played by climate change. On 31 May the World Weather Attribution issued <u>findings of their report</u> showing a limited net role for climate change in heavy spring rainfall in Emilia-Romagna.

## Shaping the future of EFAS Post-processing

by Gwyn Matthews, CEMS Hydrological Forecast Centre – Computational (COMP)

#### What is EFAS Post-Processing Forecast?

EFAS post-processing aims to correct errors and quantify the uncertainty in the EFAS forecasts by using statistical techniques and real-time discharge observations. It is applied to the EFAS medium range forecast multi-model ensembles to create a new set of probabilistic forecasts. These forecasts are shown in the pop-out window of the reporting point layer as the 'Real-time Hydrograph' alongside two bar charts showing the probability of the flow exceeding two observation-based flood thresholds, respectively. The forecast data of the EFAS Post-Processed Forecast

(EFAS PPF) can be accessed via the CEMS Sensor Observation Service (CEMS-SOS), a password-protected service available to EFAS partners.



Figure 14: Presentation at the beginning of the EFAS Postprocessing workshop of the EFAS AM17 by EFAS-COMP

In 2022, the EFAS post-processing method was upgraded to 6-hourly and applied twice daily to 1608 stations for which EFAS partners provide historic and real-time river discharge data, shown as blue markers in the reporting point layer when there is no flood signal.



Figure 15: Example of EFAS post-processed forecast on the EFAS-IS

#### **EFAS PPF at the 17th EFAS Annual Meeting**

The EFAS Post-Processed Forecasts were the topic of one of the hybrid workshops co-organised by the CEMS Hydrological Forecast Centre – Computational (COMP) and the European Union's Joint Research Centre (JRC) during the 17th EFAS Annual Meeting in September 2022. As well as being a refresher on what is EFAS PPF (see presentation here), the aim of the workshop was also to explore limitations and identify potential future developments of the EFAS PPF with the EFAS partners. During the 1h15 workshop, 41 attendees (21 face-to-face) worked together with the organisers on five topics (see bullet points). Pre- and post-workshop questionnaires were also distributed to gather anonymous and individual responses.

#### EFAS PPF: the good, the bad, and the confusing

A face-to-face and online mind-mapping activity (using miro for online participants) provided a structured way of exploring the limitations and advantages of the EFAS PPF and potential directions for future evolution (see figure)



Figure 16: In-person and online mind maps were created during group discussions

From the mind-maps, questionnaires, and post-workshop discussions with the EFAS partners, COMP and the JRC identified key areas for improvement which are summarised in the table below.

Access	The CEMS-SOS is slow and not intuitive to use and would benefit from additional documentation and training.
Product design	Use user-defined thresholds instead of generic ones so that 1) EFAS PPF can be directly compared with EFAS partners own forecast products; 2) thresholds consistent with local procedures.     Metadata information on the calibration data and results would help interpreting results.     Visual representation of the forecast uncertainty is not clear due to the slowly changing colour gradient; potentially use boxplots instead.
Method	Add water-level post-processing to increase the number of stations where the method could be applied and enhance the portfolio with water-level forecasts.
Training and documentation	Information on data requirements for EFAS PPF and calibration period is missing, with the overall documentation difficult to find.
Evaluation	A new EFAS PPF evaluation product on the EFAS-IS would help improve trust in the product.

#### Shaping the future of EFAS PPF

We would like to thank all the EFAS partners who participated in the workshop for sharing their opinions and ideas. In the figure below we have outlined a proposed plan for including the development to the EFAS PPF into the operational EFAS system.

Next release	Future release	Experimental
- Add link to documentation from product - Update documentation about data requirements Provide information about the calibration of stations - Add provider thresholds to the forecast product	- Create example requests for CEMS-SOS - Change visualisation of uncertainty - Add evaluation product for post-processed forecasts.	- Adapt method for water level observations. - Improve the scientific method. - Improve the efficiency of the CEMS-SOS

Figure 17: Initial plan for future developments to the EFAS post-processed forecasts.

Several of the developments discussed above could be implemented in different ways. To ensure that only the most appropriate changes are implemented operationally we will contact individual EFAS partners for their input and feedback once prototypes have been created. If an EFAS partner would like to be

contacted regarding developments to EFAS PPF impacting a specific region or if an EFAS partner has further feedback/comments or any questions regarding the EFAS PPF or the proposed plan then please use the 'contact-us' form on the EFAS-IS: https://www.efas.eu/en/form/feedback.

## **Acknowledgements**

The following partner institutes and contributors are gratefully acknowledged for their contribution:

- DG DEFIS Copernicus and DG ECHO for funding the EFAS Project
- All data providers including meteorological data providers, hydrological services & weather forecasting centres
- The EFAS Operational Centres
- Richard Davies, Floodlist.com

Cover image: Floods in Emilia-Romagna, Italy, 16 May 2023. Photo Civil Protection Emilia-Romagna

## Appendix - figures

As of April, reporting of the meteorological situation by the Meteorological Data Collection Centre (MDCC) will **no longer** be published in the EFAS bulletin. Instead, the state of recent meteorology will be conducted by the Copernicus Climate Change Service (C3S) and published as monthly <u>Climate Bulletins</u>.

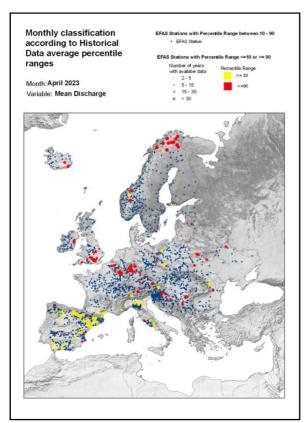


Figure 18: Monthly discharge anomalies April 2023.

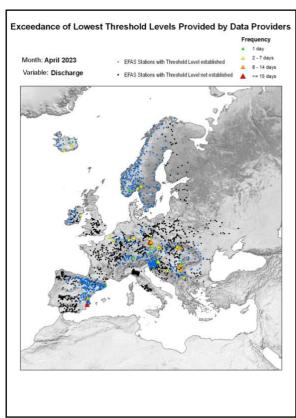


Figure 19: Lowest alert level exceedance for April 2023.

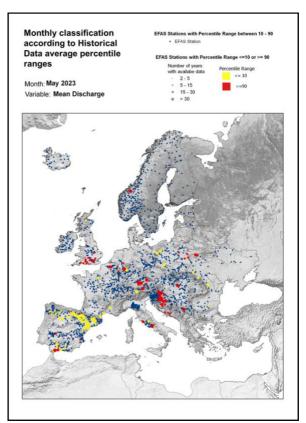


Figure 20: Monthly discharge anomalies May 2023.

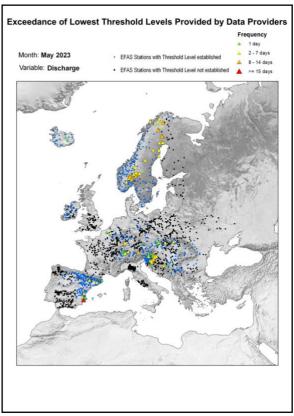
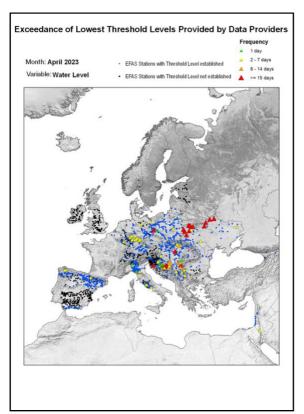


Figure 21: Lowest alert level exceedance for May 2023.





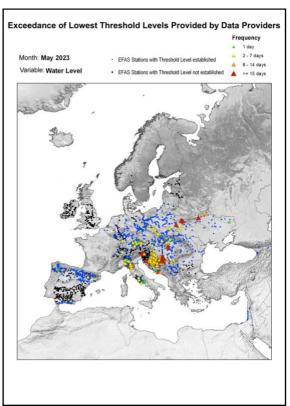


Figure 23: Lowest threshold exceedance for May 2023.

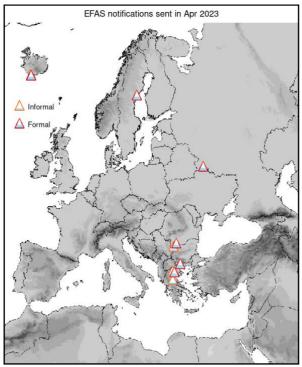


Figure 24: EFAS flood notifications sent for April 2023

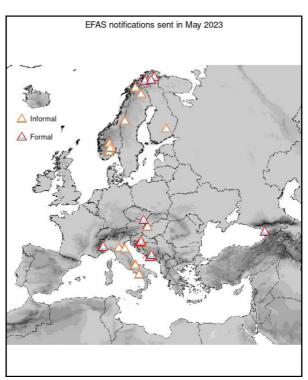


Figure 26: EFAS flood notifications sent for May 2023.

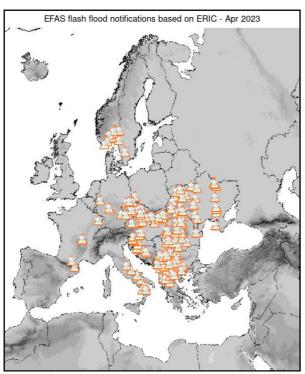


Figure 25: Flash notifications sent for April 2023

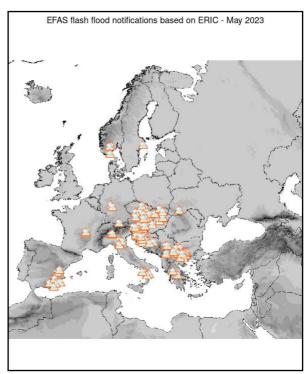


Figure 27: Flash notifications sent for May 2023.

## **Appendix - tables**

Table 1: EFAS flood notifications sent in April – May 2023

Туре	Forecast Date	Issue Date	Lead Time	River	Country
Formal	31/03/2023 12 UTC	01/04/2023	0	Coastal zone	Iceland
Informal	31/03/2023 12 UTC	01/04/2023	72	Danube	
Formal	31/03/2023 12 UTC	01/04/2023	78	Nestos	Greece
Formal	01/04/2023 12 UTC	02/04/2023	54	Aliakmonas	Greece
Informal	01/04/2023 12 UTC	02/04/2023	48	Loudias	Greece
Informal	03/04/2023 00 UTC	03/04/2023	12	Pineios	Greece
Formal	02/04/2023 12 UTC	03/04/2023	60	Jiu	Romania
Formal	05/04/2023 12 UTC	06/04/2023	78	Desna	Ukraine
Formal	13/04/2023 12 UTC	14/04/2023	78	Leira	Iceland
Formal	23/04/2023 12 UTC	24/04/2023	66	Mo√§lven	Sweden
Informal	30/04/2023 12 UTC	01/05/2023	30	Sangro	Italy
Informal	02/05/2023 00 UTC	02/05/2023	12	Reno	Italy
Informal	10/05/2023 12 UTC	11/05/2023	0	Kymijoki	·
Informal	10/05/2023 12 UTC	11/05/2023	24	Indalsälven	Norway
Formal	12/05/2023 00 UTC	12/05/2023	48	Neretva	Bosnia and
Formal	12/05/2023 12 UTC	13/05/2023	42	Neretva	Croatia
Informal	12/05/2023 12 UTC	13/05/2023	30	Sangro	Italy
Formal	12/05/2023 12 UTC	13/05/2023	48	Rioni	Georgia
Formal	13/05/2023 12 UTC	14/05/2023	60	Altaelva	Norway
Formal	13/05/2023 12 UTC	14/05/2023	72	Tenojoki	Finland
Informal	13/05/2023 12 UTC	14/05/2023	24	Trebizat	Bosnia and
Informal	13/05/2023 12 UTC	14/05/2023	48	Sele	Italy
Formal	15/05/2023 00 UTC	15/05/2023	60	Thaya	Czech Republic
Informal	15/05/2023 00 UTC	15/05/2023	36	Reno	Italy
Informal	14/05/2023 12 UTC	15/05/2023	36	Tornev§lven	Sweden
Formal	14/05/2023 12 UTC	15/05/2023	66	Tana	Norway
Formal	14/05/2023 12 UTC	15/05/2023	54	Korana	Croatia
Informal	14/05/2023 12 UTC	15/05/2023	48	Panaro	Italy
Formal	14/05/2023 12 UTC	15/05/2023	72	Kupa	Croatia
Informal	16/05/2023 00 UTC	16/05/2023	30	Raab	
Informal	16/05/2023 00 UTC	16/05/2023	30	Mosoni-Duna	Hungary
Informal	15/05/2023 12 UTC	16/05/2023	30	Glina	Croatia
Formal	17/05/2023 00 UTC	17/05/2023	78	Po	Italy
Informal	20/05/2023 12 UTC	21/05/2023	12	Malselva	Norway
Informal	20/05/2023 12 UTC	21/05/2023	48	Mar	Norway
Informal	22/05/2023 00 UTC	22/05/2023	18	Hallingdalselva	Norway
Informal	22/05/2023 00 UTC	22/05/2023	24	Neiden	Norway
Informal	21/05/2023 12 UTC	22/05/2023	30	Numedalslagen	Norway

 $<sup>^{*}</sup>$  Lead time [days] to the first forecasted exceedance of the 5-year simulated discharge threshold.

Table 2: EFAS Flash notifications sent in April – May 2023

Flash Flood 01/04/2023 00 UTC 01/04/2023 18 Danube Serbia Flash Flood 01/04/2023 00 UTC 01/04/2023 42 Danube Hungar Flash Flood 31/03/2023 12 UTC 01/04/2023 42 Rhine France Flash Flood 31/03/2023 12 UTC 01/04/2023 48 Elbe Czech Rlash Flood 31/03/2023 12 UTC 01/04/2023 30 Danube Serbia Flash Flood 31/03/2023 12 UTC 01/04/2023 30 Danube Serbia Flash Flood 31/03/2023 12 UTC 01/04/2023 42 Moraca/Bojana Monter Flash Flood 31/03/2023 12 UTC 01/04/2023 42 Danube Romani Flash Flood 31/03/2023 12 UTC 01/04/2023 42 Danube Romani Flash Flood 31/03/2023 12 UTC 01/04/2023 42 Danube Romani Flash Flood 31/03/2023 12 UTC 01/04/2023 42 Danube Romani Flash Flood 31/03/2023 12 UTC 01/04/2023 42 Danube Romani Flash Flood 31/03/2023 12 UTC 01/04/2023 42 Danube Romani Flash Flood 31/03/2023 12 UTC 01/04/2023 48 Danube Romani Flash Flood 31/03/2023 12 UTC 01/04/2023 48 Danube Romani Flash Flood 02/04/2023 00 UTC 02/04/2023 48 Danube Serbia Flash Flood 02/04/2023 00 UTC 02/04/2023 42 Danube Romani Flash Flood 02/04/2023 00 UTC 02/04/2023 42 Danube Romani Flash Flood 02/04/2023 00 UTC 02/04/2023 42 Danube Serbia Flash Flood 02/04/2023 00 UTC 02/04/2023 42 Danube Serbia Flash Flood 02/04/2023 00 UTC 02/04/2023 42 Greece (North) Greece Romani Flash Flood 02/04/2023 00 UTC 02/04/2023 42 Seman Albania/Greece (Adriatic Coast) Morth Macedo O2/04/2023 00 UTC 02/04/2023 48 Strimonas(GR)/Struma(BG) Bulgaria Flash Flood 02/04/2023 00 UTC 02/04/2023 48 Danube Serbia Flash Flood 02/04/2023 00 UTC 02/04/2023 48 Danube Serbia Flash Flood 02/04/2023 00 UTC 02/04/2023 48 Danube Serbia Flash Flood 02/04/2023 00 UTC 02/04/2023 48 Vardar(YG)/Axios(GR) Greece Flash Flood 01/04/2023 12 UTC 02/04/2023 48 Vardar(YG)/Axios(GR) Greece Flash Flood 01/04/2023 12 UTC 02/04/2023 48 Vardar(YG)/Axios(GR) Greece Flash Flood 01/04/2023 12 UTC 02/04/2023 42 Danube Bulgaria Flash Flood 01/04/2023 12 UTC 03/04/2023 42 Danube Bulgaria Flash Flood 01/04/2023 12 UTC 03/04/2023 42 Danube Bulgaria Flash Flood 02/04/2023 12 UTC 03/04/2023 42 Danube Bulgaria Flash Flood 02/04/2	Туре	Forecast Date	Issue Date	Lead Time	Region	Country
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Flash Flood	09/04/2023 12 UTC	10/04/2023	48	Sweden	Sweden
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Flash Flood	11/04/2023 00 UTC	11/04/2023	30	Danube	Hungary
Flash Flood	10/04/2023 12 UTC	11/04/2023	24	Danabe	ridrigary
Flash Flood	10/04/2023 12 UTC	11/04/2023	48	Dnepr	Ukraine
Flash Flood	10/04/2023 12 UTC	11/04/2023	48	Dnepr	Ukraine
Flash Flood	10/04/2023 12 UTC	11/04/2023	36	Danube	Slovakia
Flash Flood	12/04/2023 12 OTC 12/04/2023 00 UTC	12/04/2023	48	Dnepr	Ukraine
Flash Flood	12/04/2023 00 UTC	12/04/2023	48	Danube	Austria
Flash Flood	12/04/2023 00 UTC 12/04/2023 00 UTC	12/04/2023	48 48	Danube	Slovenia
Flash Flood	12/04/2023 00 UTC 12/04/2023 00 UTC	12/04/2023	48 48	Danube	Sioverna
Flash Flood	12/04/2023 00 UTC 12/04/2023 00 UTC	12/04/2023	48 48	Danube	Czach Banublia
					Czech Republic
Flash Flood	12/04/2023 00 UTC	12/04/2023	48	Danube	Czech Republic
Flash Flood	11/04/2023 12 UTC	12/04/2023	36	Dnepr	Ukraine
Flash Flood	13/04/2023 00 UTC	13/04/2023	30	Moraca/Bojana	Montenegro
Flash Flood	13/04/2023 00 UTC	13/04/2023	42	Danube	Hungary
Flash Flood	13/04/2023 00 UTC	13/04/2023	42	Danube	Slovakia
Flash Flood	13/04/2023 00 UTC	13/04/2023	24	Danube	Slovenia

Flash Flood	13/04/2023 00 UTC	13/04/2023	30	Danube	Slovenia
Flash Flood	13/04/2023 00 UTC	13/04/2023	42	Danube	Austria
Flash Flood	13/04/2023 00 UTC	13/04/2023	48	Norway	Norway
Flash Flood	13/04/2023 00 UTC	13/04/2023	42	1401 Way	Norway
Flash Flood	13/04/2023 00 UTC	13/04/2023	48	Oder	Czech Republic
Flash Flood	12/04/2023 12 UTC	13/04/2023	48	Danube	Romania
Flash Flood	12/04/2023 12 UTC	13/04/2023	42	Danabe	Nomania
Flash Flood	12/04/2023 12 UTC 12/04/2023 12 UTC	13/04/2023	36		
Flash Flood	12/04/2023 12 UTC	13/04/2023	42		
Flash Flood	12/04/2023 12 UTC 12/04/2023 12 UTC	13/04/2023	42		
Flash Flood	12/04/2023 12 UTC 12/04/2023 12 UTC	13/04/2023	42 48	Danube	Slovakia
				Elbe	
Flash Flood	12/04/2023 12 UTC	13/04/2023	48		Czech Republic
Flash Flood	12/04/2023 12 UTC	13/04/2023	48	Danube	Slovakia
Flash Flood	12/04/2023 12 UTC	13/04/2023	48	Elbe	Czech Republic
Flash Flood	12/04/2023 12 UTC	13/04/2023	48		
Flash Flood	12/04/2023 12 UTC	13/04/2023	48		
Flash Flood	14/04/2023 00 UTC	14/04/2023	42		
Flash Flood	14/04/2023 00 UTC	14/04/2023	42		
Flash Flood	14/04/2023 00 UTC	14/04/2023	48	Italy (Ligurian Sea/Tyrrhenian Sea)	Italy
Flash Flood	14/04/2023 00 UTC	14/04/2023	30	Mesta(BG)/Nestos(GR)	Bulgaria
Flash Flood	14/04/2023 00 UTC	14/04/2023	18		
Flash Flood	14/04/2023 00 UTC	14/04/2023	42	Dnepr	Ukraine
Flash Flood	14/04/2023 00 UTC	14/04/2023	42	Dnepr	Ukraine
Flash Flood	14/04/2023 00 UTC	14/04/2023	48		
Flash Flood	14/04/2023 00 UTC	14/04/2023	48	Dnepr	Ukraine
Flash Flood	14/04/2023 00 UTC	14/04/2023	42	Dnepr	Ukraine
Flash Flood	14/04/2023 00 UTC	14/04/2023	24	Dnepr	Ukraine
Flash Flood	13/04/2023 12 UTC	14/04/2023	48	Danube	Germany
Flash Flood	13/04/2023 12 UTC	14/04/2023	30	Danube	Romania
Flash Flood	13/04/2023 12 UTC	14/04/2023	30	Danube	Romania
Flash Flood	13/04/2023 12 UTC	14/04/2023	42		
Flash Flood	13/04/2023 12 UTC	14/04/2023	36		
Flash Flood	13/04/2023 12 UTC	14/04/2023	36	Elbe	Czech Republic
Flash Flood	13/04/2023 12 UTC	14/04/2023	36		•
Flash Flood	13/04/2023 12 UTC	14/04/2023	36	Oder	Poland
Flash Flood	13/04/2023 12 UTC	14/04/2023	42	Elbe	Germany
Flash Flood	13/04/2023 12 UTC	14/04/2023	24	Dnepr	Ukraine
				Coastal Catchment North	
Flash Flood	13/04/2023 12 UTC	14/04/2023	48	Sea	Norway
Flash Flood	13/04/2023 12 UTC	14/04/2023	48	Loire	France
Flash Flood	15/04/2023 00 UTC	15/04/2023	48	Danube	Croatia
Flash Flood	15/04/2023 00 UTC	15/04/2023	48	Danube	Romania
Flash Flood	14/04/2023 12 UTC	15/04/2023	30	Loire	France
Flash Flood	14/04/2023 12 UTC	15/04/2023	30		
Flash Flood	14/04/2023 12 UTC	15/04/2023	24	Norway	Norway
Flash Flood	16/04/2023 00 UTC	16/04/2023	36		
Flash Flood	16/04/2023 00 UTC	16/04/2023	48	Strimonas(GR)/Struma(BG)	Bulgaria
Flash Flood	16/04/2023 00 UTC	16/04/2023	48	Danube	Serbia
Flash Flood	16/04/2023 00 UTC	16/04/2023	36		
Flash Flood	16/04/2023 00 UTC	16/04/2023	48	Danube	Serbia

Flash Flood Flash Flood	16/04/2023 00 UTC 16/04/2023 00 UTC	16/04/2023 16/04/2023	42 48	Danube	Kosovo
Flash Flood	16/04/2023 00 UTC	16/04/2023	30	Italy (Adriatic Sea/Ionian	Italy
Flash Flood	16/04/2023 00 UTC	16/04/2023	42	Sea) Danube	Romania
Flash Flood	15/04/2023 12 UTC	16/04/2023	48	Pescara	Italy
Flash Flood	15/04/2023 12 UTC	16/04/2023	42	Tevere	Italy
Flash Flood	15/04/2023 12 UTC	16/04/2023	42	Crni Drim / Drin	icary
Flash Flood	15/04/2023 12 UTC	16/04/2023	48	Danube	Serbia
11000	13/04/2023 12 010		70	Danabe	Bosnia and
Flash Flood	15/04/2023 12 UTC	16/04/2023	42	Danube	Herzegovina
Flash Flood	15/04/2023 12 UTC	16/04/2023	48	Danube	Bosnia and
	45 /04 /2022 42 LITC	16/04/2022	26	Danuka	Herzegovina
Flash Flood	15/04/2023 12 UTC	16/04/2023	36	Danube	Croatia
Flash Flood	15/04/2023 12 UTC	16/04/2023	42	Danube	Romania
Flash Flood	15/04/2023 12 UTC	16/04/2023	36	Danube	Romania
Flash Flood	17/04/2023 00 UTC	17/04/2023	36		
Flash Flood	17/04/2023 00 UTC	17/04/2023	24	Danube	Montenegro
Flash Flood	16/04/2023 12 UTC	17/04/2023	12	Ofanto	Italy
Flash Flood	16/04/2023 12 UTC	17/04/2023	42	Vardar(YG)/Axios(GR)	North Macedonia
Flash Flood	16/04/2023 12 UTC	17/04/2023	48	Mesta(BG)/Nestos(GR)	Bulgaria
Flash Flood	16/04/2023 12 UTC	17/04/2023	48		
Flash Flood	16/04/2023 12 UTC	17/04/2023	42		
Flash Flood	16/04/2023 12 UTC	17/04/2023	24		
Flash Flood	18/04/2023 00 UTC	18/04/2023	36	Danube	Romania
Flash Flood	17/04/2023 12 UTC	18/04/2023	42	Evros / Maritsa	Bulgaria
Flash Flood	17/04/2023 12 UTC	18/04/2023	30		· ·
Flash Flood	17/04/2023 12 UTC	18/04/2023	48		
Flash Flood	22/04/2023 00 UTC	22/04/2023	36	Common to Norway- Sweden	Sweden
Flash Flood	22/04/2023 00 UTC	22/04/2023	30	Norway	Norway
Flash Flood	21/04/2023 12 UTC	22/04/2023	42	Norway	Norway
Flash Flood	21/04/2023 12 UTC	22/04/2023	42	Norway	Norway
Flash Flood	23/04/2023 00 UTC	23/04/2023	48	Strimonas(GR)/Struma(BG)	Bulgaria
Flash Flood	23/04/2023 00 UTC	23/04/2023	48	Common to Norway- Sweden	Sweden
Flash Flood	23/04/2023 00 UTC	23/04/2023	48	Coastal Catchment North Sea	Norway
Flash Flood	23/04/2023 00 UTC	23/04/2023	36	Norway	Norway
Flash Flood	22/04/2023 12 UTC	23/04/2023	48	Danube	Czech Republic
Flash Flood	24/04/2023 00 UTC	24/04/2023	48		·
Flash Flood	24/04/2023 00 UTC	24/04/2023	42	Danube	Romania
Flash Flood	24/04/2023 00 UTC	24/04/2023	36	Danube	Slovakia
Flash Flood	24/04/2023 00 UTC	24/04/2023	42	Danube	Ukraine
Flash Flood	24/04/2023 00 UTC	24/04/2023	42		
Flash Flood	24/04/2023 00 UTC	24/04/2023	48	Danube	Kosovo
Flash Flood	24/04/2023 00 UTC	24/04/2023	48	Danube	Serbia
Flash Flood	24/04/2023 00 UTC	24/04/2023	24	Danube	Serbia
Flash Flood	23/04/2023 12 UTC	24/04/2023	42	Norway	Norway
Flash Flood	23/04/2023 12 UTC	24/04/2023	42	Danube	Romania
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Flash Flood	23/04/2023 12 UTC	24/04/2023	48	Danube	Ukraine
Flash Flood	23/04/2023 12 UTC	24/04/2023	48	Danube	Slovakia
Flash Flood	23/04/2023 12 UTC	24/04/2023	42	Danube	Hungary
Flash Flood	23/04/2023 12 UTC	24/04/2023	48	Danube	Romania
Flash Flood	23/04/2023 12 UTC	24/04/2023	48	Danube	Serbia
Flash Flood	23/04/2023 12 UTC	24/04/2023	36	Danube	Serbia
Flash Flood	23/04/2023 12 UTC	24/04/2023	36	Crni Drim / Drin	
Flash Flood	25/04/2023 00 UTC	25/04/2023	36	•	
Flash Flood	25/04/2023 00 UTC	25/04/2023	30	Danube	Romania
Flash Flood	25/04/2023 00 UTC	25/04/2023	24	Danube	Romania
Flash Flood	25/04/2023 00 UTC	25/04/2023	30	Danube	Ukraine
Flash Flood	25/04/2023 00 UTC	25/04/2023	36	2 4.1.4.20	
Flash Flood	24/04/2023 12 UTC	25/04/2023	24	Norway	Norway
Flash Flood	24/04/2023 12 UTC	25/04/2023	42	,	,
Flash Flood	24/04/2023 12 UTC	25/04/2023	48		
Flash Flood	24/04/2023 12 UTC	25/04/2023	36		
Flash Flood	24/04/2023 12 UTC	25/04/2023	24	Danube	Bulgaria
Flash Flood	24/04/2023 12 UTC	25/04/2023	42	Dnepr	Ukraine
Flash Flood	24/04/2023 12 UTC	25/04/2023	48	Danube	Serbia
					Bosnia and
Flash Flood	24/04/2023 12 UTC	25/04/2023	36	Danube	Herzegovina
Flash Flood	24/04/2023 12 UTC	25/04/2023	42	Danube	Kosovo
Flash Flood	24/04/2023 12 UTC	25/04/2023	48	Danube	Serbia
Flash Flood	24/04/2023 12 UTC	25/04/2023	42	Danube	Romania
Flash Flood	26/04/2023 00 UTC	26/04/2023	18	Danabe	nomania
Flash Flood	26/04/2023 00 UTC	26/04/2023	24		
Flash Flood	25/04/2023 12 UTC	26/04/2023	18	Seman	Albania
Flash Flood	25/04/2023 12 UTC	26/04/2023	24	Danube	Romania
Flash Flood	27/04/2023 12 UTC	28/04/2023	42	Dnepr	Ukraine
Flash Flood	27/04/2023 12 UTC	28/04/2023	42	Dnepr	Ukraine
				France (Mediterranean Sea	
Flash Flood	29/04/2023 00 UTC	29/04/2023	24	Coast)	France
Flash Flood	28/04/2023 12 UTC	29/04/2023	24	Danube	Czech Republic
Flash Flood	28/04/2023 12 UTC	29/04/2023	24	Sea of Azov	Ukraine
Flash Flood	28/04/2023 12 UTC	29/04/2023	36	Garonne	France
Flash Flood	30/04/2023 12 UTC	01/05/2023	42	Sweden	Sweden
				Italy (Ligurian	
Flash Flood	30/04/2023 12 UTC	01/05/2023	48	Sea/Tyrrhenian Sea)	Italy
Flash Flood	30/04/2023 12 UTC	01/05/2023	48	Danube	Croatia
Flash Flood	02/05/2023 00 UTC	02/05/2023	30	Wisla	Slovakia
Flash Flood	02/05/2023 00 UTC	02/05/2023	24	Acheloos	Greece
Flash Flood	02/05/2023 00 UTC	02/05/2023	48	Mesta(BG)/Nestos(GR)	Bulgaria
				, , ,	Bosnia and
Flash Flood	02/05/2023 00 UTC	02/05/2023	36	Danube	Herzegovina
Flash Flood	02/05/2023 00 UTC	02/05/2023	36	Danube	Slovakia
				Italy (Adriatic Sea/Ionian	
Flash Flood	01/05/2023 12 UTC	02/05/2023	30	Sea)	Italy
Flash Flood	01/05/2023 12 UTC	02/05/2023	24	Po	Italy
Flash Flood	03/05/2023 12 0TC	03/05/2023	42		,
Flash Flood	03/05/2023 00 UTC	03/05/2023	36		
. 10511 1 1000	33,03,2023 00 010	03,03,2023	30		

Flash Flood	03/05/2023 00 UTC	03/05/2023	24	Italy (Adriatic Sea/Ionian Sea)	Italy
Flash Flood	02/05/2023 12 UTC	03/05/2023	36		
Flash Flood	03/05/2023 12 UTC	04/05/2023	42	Spercheios	Greece
Flash Flood	07/05/2023 00 UTC	07/05/2023	12		
Flash Flood	07/05/2023 00 UTC	07/05/2023	48	Crni Drim / Drin	
Flash Flood	07/05/2023 00 UTC	07/05/2023	48	Crni Drim / Drin	
Flash Flood	07/05/2023 00 UTC	07/05/2023	36	Danube	Austria
Flash Flood	08/05/2023 00 UTC	08/05/2023	42	Mesta(BG)/Nestos(GR)	Greece
Flash Flood	07/05/2023 12 UTC	08/05/2023	48	Strimonas(GR)/Struma(BG)	Bulgaria
Flash Flood	07/05/2023 12 UTC	08/05/2023	48		
Flash Flood	07/05/2023 12 UTC	08/05/2023	48		
Flash Flood	09/05/2023 00 UTC	09/05/2023	24		
Flash Flood	09/05/2023 00 UTC	09/05/2023	30		
Flash Flood	09/05/2023 00 UTC	09/05/2023	48	Po	Italy
Flash Flood	08/05/2023 12 UTC	09/05/2023	42	Moel	Norway
Flash Flood	08/05/2023 12 UTC	09/05/2023	42	Strimonas(GR)/Struma(BG)	Bulgaria
Flash Flood	08/05/2023 12 UTC	09/05/2023	42	Norway	Norway
Flash Flood	10/05/2023 00 UTC	10/05/2023	42	Danube	Austria
Flash Flood	10/05/2023 00 UTC	10/05/2023	42	Danube	Austria
Flash Flood	10/05/2023 00 UTC	10/05/2023	48	Loire	France
Flash Flood	10/05/2023 00 UTC	10/05/2023	36	Loire	France
Flash Flood	09/05/2023 12 UTC	10/05/2023	18	Ро	Italy
Flash Flood	09/05/2023 12 UTC	10/05/2023	12		,
Flash Flood	13/05/2023 00 UTC	13/05/2023	36	Danube	Croatia
Flash Flood	13/05/2023 00 UTC	13/05/2023	48		
Flash Flood	13/05/2023 00 UTC	13/05/2023	48		
Flash Flood	13/05/2023 00 UTC	13/05/2023	48		
					Bosnia and
Flash Flood	12/05/2023 12 UTC	13/05/2023	48	Danube	Herzegovina
Flash Flood	14/05/2023 00 UTC	14/05/2023	30	Danube	Slovakia
Flash Flood	14/05/2023 00 UTC	14/05/2023	24	Danube	Hungary
Flash Flood	14/05/2023 00 UTC	14/05/2023	24	Danube	Bosnia and
					Herzegovina
Flash Flood	13/05/2023 12 UTC	14/05/2023	36	Danube	Slovakia
Flash Flood	13/05/2023 12 UTC	14/05/2023	36	Danube	Croatia
Flash Flood	13/05/2023 12 UTC	14/05/2023	48	Danube	Hungary
Flash Flood	15/05/2023 00 UTC	15/05/2023	48	Danube	Germany
Flash Flood	15/05/2023 00 UTC	15/05/2023	42	Danube	Croatia
Flash Flood	15/05/2023 00 UTC	15/05/2023	42	Danube	Croatia
Flash Flood	15/05/2023 00 UTC	15/05/2023	48		
Flash Flood	15/05/2023 00 UTC	15/05/2023	48	Danube	Croatia
Flash Flood	15/05/2023 00 UTC	15/05/2023	48	Danube	Slovenia
Flash Flood	15/05/2023 00 UTC	15/05/2023	48	Danube	Slovenia
Flash Flood	15/05/2023 00 UTC	15/05/2023	48	Danube	Slovenia
Flash Flood	15/05/2023 00 UTC	15/05/2023	48		
Flash Flood	15/05/2023 00 UTC	15/05/2023	48	Danube	Slovakia
Flash Flood	15/05/2023 00 UTC	15/05/2023	48	Danube	Czech republic
Flash Flood	15/05/2023 00 UTC	15/05/2023	48		
Flash Flood	15/05/2023 00 UTC	15/05/2023	48		
Flash Flood	14/05/2023 12 UTC	15/05/2023	48	Danube	Croatia

Flash Flood	14/05/2023 12 UTC	15/05/2023	48	Danube	Croatia
Flash Flood	14/05/2023 12 UTC	15/05/2023	48	Po	Italy
Flash Flood	14/05/2023 12 UTC	15/05/2023	48	Po	Italy
Flash Flood	14/05/2023 12 UTC	15/05/2023	48	Italy (Ligurian Sea/Tyrrhenian Sea)	Italy
Flash Flood	16/05/2023 00 UTC	16/05/2023	24	Danube	Croatia
Flash Flood	16/05/2023 00 UTC	16/05/2023	48	Danube	Hungary
Flash Flood	16/05/2023 00 UTC	16/05/2023	36		
Flash Flood	16/05/2023 00 UTC	16/05/2023	36	Danube	Czech Republic
Flash Flood	16/05/2023 00 UTC	16/05/2023	30		
Flash Flood	16/05/2023 00 UTC	16/05/2023	30		
Flash Flood	16/05/2023 00 UTC	16/05/2023	18	Mesta(BG)/Nestos(GR)	Bulgaria
Flash Flood	16/05/2023 00 UTC	16/05/2023	36		
Flash Flood	16/05/2023 00 UTC	16/05/2023	36	Elbe	Czech Republic
Flash Flood	15/05/2023 12 UTC	16/05/2023	48		•
Flash Flood	15/05/2023 12 UTC	16/05/2023	42		
Flash Flood	15/05/2023 12 UTC	16/05/2023	36		
Flash Flood	15/05/2023 12 UTC	16/05/2023	48	Danube	Slovakia
Flash Flood	17/05/2023 00 UTC	17/05/2023	30	Mesta(BG)/Nestos(GR)	Bulgaria
Flash Flood	17/05/2023 00 UTC	17/05/2023	30	Strimonas(GR)/Struma(BG)	Bulgaria
Flash Flood	16/05/2023 12 UTC	17/05/2023	42	Danube	Slovakia
Flash Flood	16/05/2023 12 UTC	17/05/2023	24	Danube	Slovakia
Flash Flood	16/05/2023 12 UTC	17/05/2023	42	Danube	Serbia
Flash Flood	16/05/2023 12 UTC	17/05/2023	48	2 4.1.4.00	00.0.0
Flash Flood	16/05/2023 12 UTC	17/05/2023	42	Evros / Maritsa	Bulgaria
Flash Flood	16/05/2023 12 UTC	17/05/2023	36	Danube	Bosnia and Herzegovina
Flash Flood	20/05/2023 00 UTC	20/05/2023	30	Italy (Adriatic Sea/Ionian Sea)	Italy
Flash Flood	20/05/2023 12 UTC	21/05/2023	72	Spain (South-East Coast)	Spain
Flash Flood	22/05/2023 00 UTC	22/05/2023	48	Segura	Spain
Flash Flood	21/05/2023 12 UTC	22/05/2023	48	Spain (South-East Coast)	Spain
Flash Flood	23/05/2023 00 UTC	23/05/2023	30	Segura	Spain
Flash Flood	23/05/2023 00 UTC	23/05/2023	30		
Flash Flood	23/05/2023 00 UTC	23/05/2023	30		
Flash Flood	22/05/2023 12 UTC	23/05/2023	24	Moel	Norway
Flash Flood	22/05/2023 12 UTC	23/05/2023	24	Guadalquivir	Spain
Flash Flood	22/05/2023 12 UTC	23/05/2023	36	Segura	Spain
				Coastal Catchment	
Flash Flood	22/05/2023 12 UTC	23/05/2023	36	Western Mediterranean	Spain
	22/05/2022 42 UTC	22/05/2022	40	Sea	A
Flash Flood	22/05/2023 12 UTC	23/05/2023	48	Danube	Austria
Flash Flood	24/05/2023 00 UTC	24/05/2023	12	2	6 ''
Flash Flood	23/05/2023 12 UTC	24/05/2023	42	Po	Switzerland
Flash Flood	23/05/2023 12 UTC	24/05/2023	72	Spain (South-East Coast)	Spain
Flash Flood	23/05/2023 12 UTC	24/05/2023	42	Po	Italy
Flash Flood	25/05/2023 00 UTC	25/05/2023	30	J	Spain
Flash Flood	25/05/2023 12 UTC	26/05/2023	48	Danube	Serbia
Flash Flood	25/05/2023 12 UTC	26/05/2023	48	Danube	Serbia
Flash Flood	25/05/2023 12 UTC	26/05/2023	48	Danube	Bulgaria
Flash Flood	27/05/2023 12 UTC	28/05/2023	24	Segura	Spain

Flash Flood	29/05/2023 00 UTC	29/05/2023	42	Strimonas(GR)/Struma(BG)	Bulgaria
Flash Flood	28/05/2023 12 UTC	29/05/2023	48	Strimonas(GR)/Struma(BG)	Bulgaria
Flash Flood	30/05/2023 00 UTC	30/05/2023	42	Mesta(BG)/Nestos(GR)	Bulgaria
Flash Flood	29/05/2023 12 UTC	30/05/2023	42	Danube	Bosnia and
riasii rioou	29/03/2023 12 010	30/03/2023	42	Danube	Herzegovina
Flack Flack	29/05/2023 12 UTC	30/05/2023	42	Danube	Bosnia and
Flash Flood	29/05/2023 12 010	30/03/2023	42	Danube	Herzegovina

<sup>\*</sup> Lead time [hours] to the forecasted peak of the event

The European Flood Awareness System (EFAS) produces European overviews of ongoing and forecasted floods up to 10 days in advance and contributes to better protection of the European citizens, the environment, properties and cultural heritage. It has been developed at the European Commission's in-house science service, the Joint Research Centre (JRC), in close collaboration with national hydrological and meteorological services and policy DG's of the European Commission.

EFAS has been transferred to operations under the European Commission's COPERNICUS Emergency Management Service led by DG GROW in direct support to the EU's Emergency Response Coordination Centre (ERCC) of DG ECHO and the hydrological services in the Member States.

ECMWF has been awarded the contract for the EFAS Computational centre. It is responsible for providing daily operational EFAS forecasts and 24/7 support to the technical system.

A consortium of Swedish Meteorological and Hydrological Institute (SMHI), Rijkswaterstaat (RWS) and Slovak Hydro-Meteorological Institute (SHMU) has been awarded the contract for the EFAS Dissemination centre. They are responsible for analysing EFAS output and disseminating information to the partners and the ERCC.

A Spanish contractor, Ghenova Digital (formerly Soologic), has been awarded the contract for the EFAS Hydrological data collection centre. They are responsible for collecting discharge and water level data across Europe.

A German consortium (KISTERS and DWD) has been awarded the contract for the EFAS Meteorological data collection centre. They are responsible for collecting the meteorological data needed to run EFAS over Europe. Finally, the JRC is responsible for the overall project management related to EFAS and further development of the system.

#### **Contact details:**

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