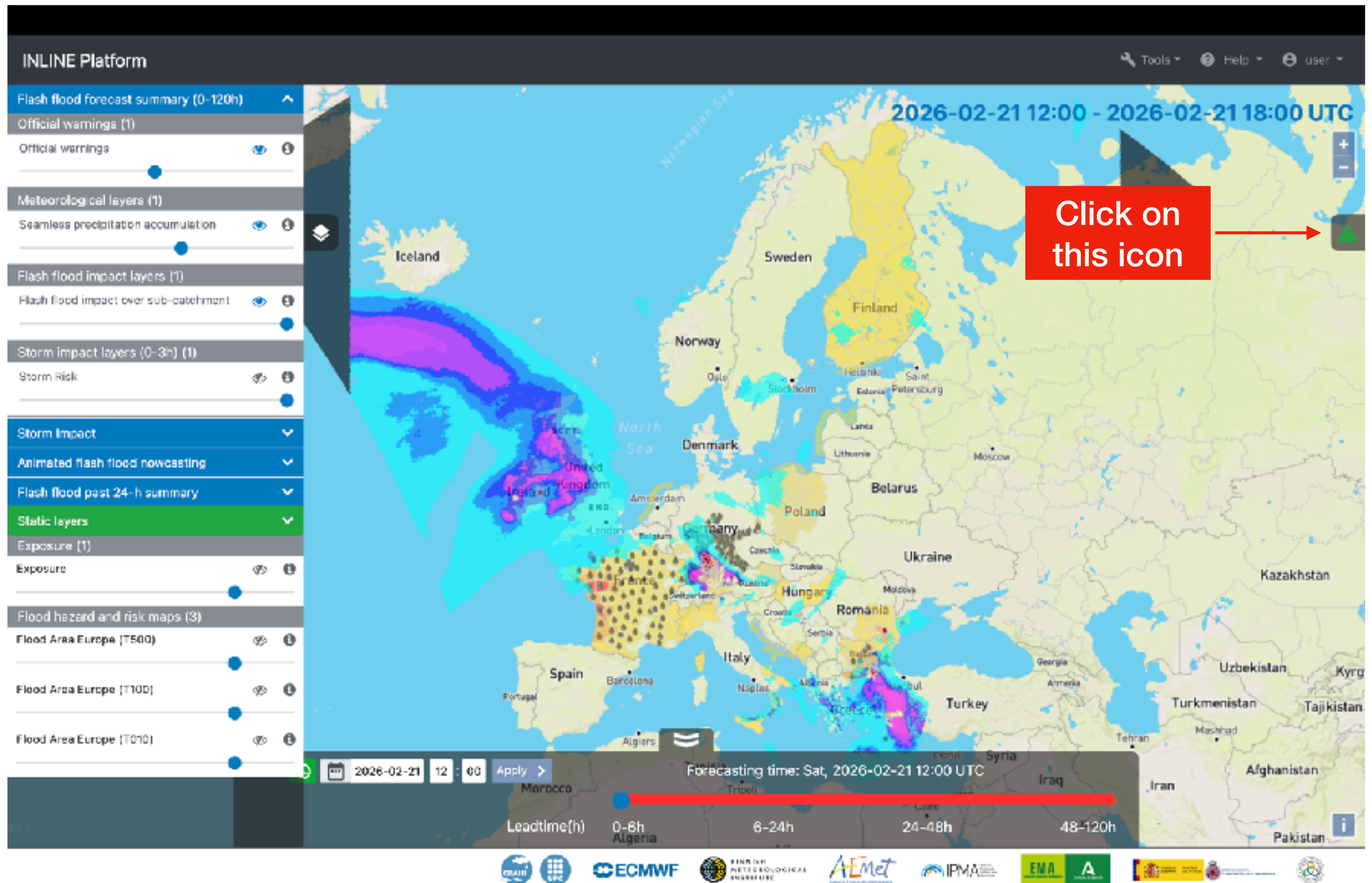


INLINE improved functionalities

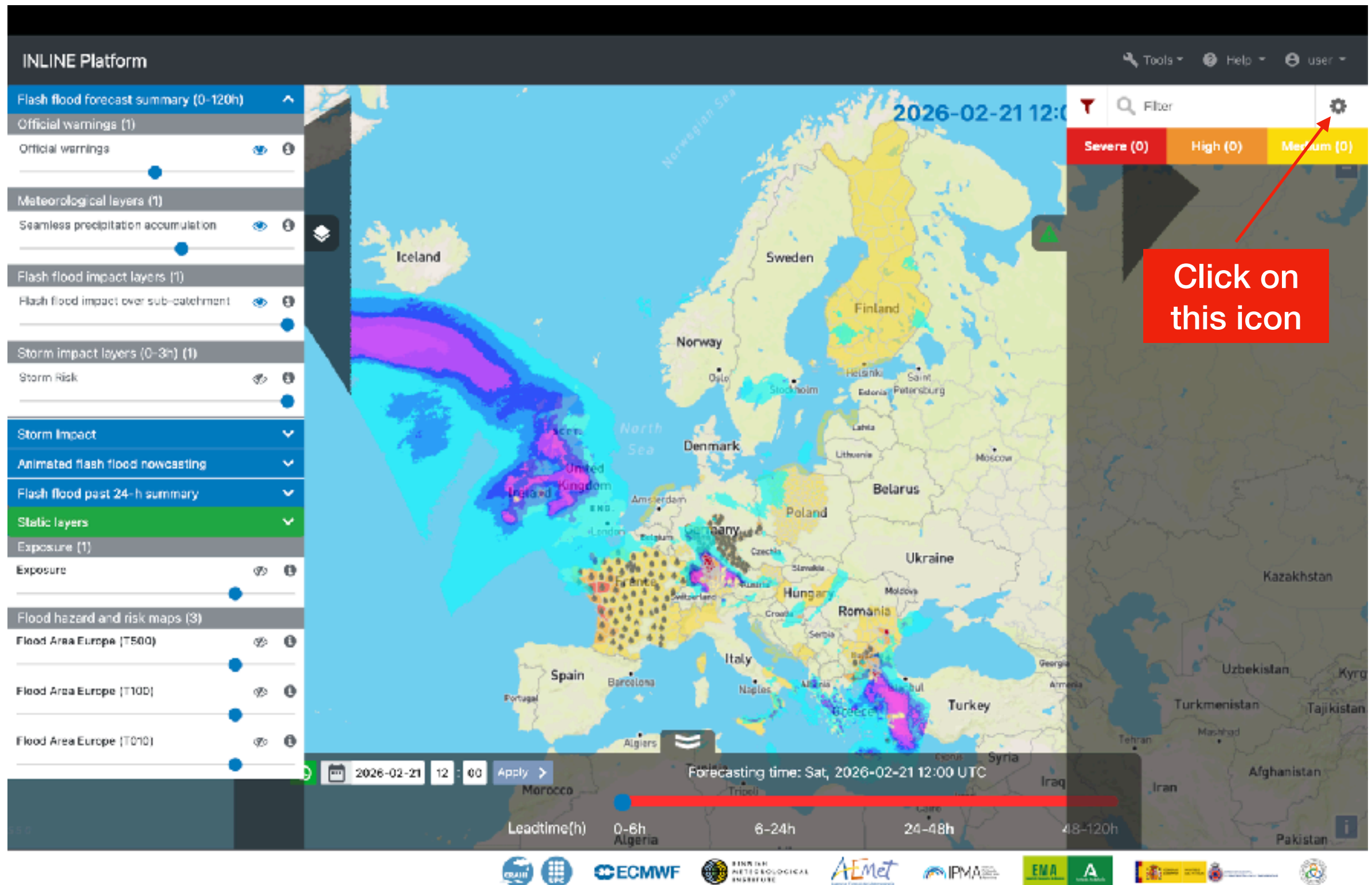
Index

- INLINE notifications
- Improve notifications with High Resolution Local Data
- Italy Radar

INLINE notifications - Domain configuration



INLINE notifications - Domain configuration



INLINE notifications - Domain configuration

INLINE Platform

Flash flood forecast summary (0-120h)

Official warnings (1)

Official warnings

Meteorological layers (1)

Seamless precipitation accumulation

Flash flood impact layers (1)

Flash flood impact over sub-catchment

Storm impact layers (0-3h) (1)

Storm Risk

Storm Impact

Animated flash flood nowcasting

Flash flood past 24-h summary

Static layers

Exposure (1)

Exposure

Flood hazard and risk maps (3)

Flood Area Europe (T500)

Flood Area Europe (T100)

Flood Area Europe (T010)

2026-02-21 12:00

Severe (0) High (0) Medium (0)

Configuration for notifications updates

Mail Domain

Domain configuration guidelines

Upload shapefile ZIP: Try an fitxer No s'ha triat cap fitxer

Close Save

Click 'Domain' tab

Forecasting time: Sat, 2026-02-21 12:00 UTC

Leadtime(h) 0-6h 6-24h 24-48h 48-120h

Logos: CRUI, ECMWF, BSH, Aemet, IPMA, EMA, A, etc.

INLINE notifications - Domain configuration

INLINE Platform

Flash flood forecast summary (0-120h)

Official warnings (1)

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Flood hazard and risk maps (3)

Flood Area Europe (T500)

Flood Area Europe (T100)

Flood Area Europe (T010)

2026-02-21 12:00

Severe (0) High (0) Medium (0)

Configuration for notifications updates

Mail Domain

Domain configuration guidelines

Upload shapefile ZIP: Try an fixer No s'ha triat cap fixer

Save

Click to expand instructions about file requirements

Forecasting time: Sat, 2026-02-21 12:00 UTC

Leadtime(h) 0-6h 6-24h 24-48h 48-120h

Logos: CRUI, ECMWF, BSH, Aemet, IPMA, EMA, A, etc.

INLINE notifications - Domain configuration

Configuration for notifications updates

☒ Mail ☐ Domain

Domain configuration guidelines

Use this configuration to select the domain (area) for which you want to receive notifications. Please follow these instructions:

- Upload a ZIP file that includes the four required shapefile components (*.shp, *.shx, *.dbf, *.prj).
- When the file is uploaded, choose a field in the "Select names column" dropdown. The values in this field will be used as names when listing notifications.
- (Optional) You can apply filters to narrow down the area for which you want to receive notifications by specifying the values of the fields.
- When your desired domain is being shown in the map, click "Save" to submit the configuration.

2026-02-21 12:00

Severe (0) High (0) Medium (0)

Flash flood forecast summary (0-120h)

Official warnings (1)

Official warnings

Meteorological layers (1)

Seamless precipitation accumulation

Flash flood impact layers (1)

Flash flood impact over sub-catchment

Storm impact layers (0-3h) (1)

Storm Risk

Storm Impact

Animated flash flood nowcasting

Flash flood past 24-h summary

Static layers

Exposure (1)

Exposure

Flood hazard and risk maps (3)

Flood Area Europe (T500)

Flood Area Europe (T100)

Flood Area Europe (T010)

Forecasting time: Sat, 2026-02-21 12:00 UTC

Leadtime(h) 0-6h Algeria 6-24h 24-48h 48-120h

Co-funded by the European Union

INLINE notifications - Domain configuration

INLINE Platform

Flash flood forecast summary (0-120h)

Official warnings (1)

Official warnings

Meteorological layers (1)

Seamless precipitation accumulation

Flash flood impact layers (1)

Flash flood impact over sub-catchment

Storm impact layers (0-3h) (1)

Storm Risk

Storm Impact

Animated flash flood nowcasting

Flash flood past 24-h summary

Static layers

Exposure (1)

Exposure

Flood hazard and risk maps (3)

Flood Area Europe (T500)

Flood Area Europe (T100)

Flood Area Europe (T010)

2026-02-21 12:00

Tools Help user

Severe (0) High (0) Medium (0)

Configuration for notifications updates

Mail Domain

Domain configuration guidelines

Upload shapefile ZIP: Tria un fitxer No s'ha triat cap fitxer

Close Save

Click to upload your zip file (which contains .shp, .shx, .dbf, .prj files)

In this example: Europe NUTS

Leadtime(h) 0-6h Algeria 6-24h 24-48h 48-120h

ECMWF EUMet IPMA EMA A

INLINE notifications - Domain configuration

Configuration for notifications updates

Mail **Domain**

Domain configuration guidelines

Upload shapefile ZIP: NUTS3.zip

Select names column: Ex: AL,CZ,DE...

+ Add Filter **Apply Filters**

Automatically, the shapefile will be shown on the map

INLINE notifications - Domain configuration

The screenshot shows the 'Configuration for notifications updates' dialog box in the INLINE Platform. The 'Domain' tab is selected, showing options for 'Domain configuration guidelines'. The 'Upload shapefile ZIP' field contains 'Tria un fitxer NUTS3.zip'. The 'Select names column:' dropdown is set to 'NUTS_NAME', with an example showing 'Shqipëria, Česko, Deutschland...'. A red arrow points from the 'NUTS_NAME' dropdown to a red text box that reads: 'Select the column that will be used as name of the region when listing notifications. In this example: NUTS_NAME'. The background shows the main platform interface with various layers and a map.

Configuration for notifications updates

Mail Domain

Domain configuration guidelines

Upload shapefile ZIP: Tria un fitxer NUTS3.zip

Select names column: NUTS_NAME Ex: Shqipëria, Česko, Deutschland...

+ Add Filter Apply Filters

Select the column that will be used as name of the region when listing notifications

In this example: NUTS_NAME

INLINE notifications - Domain configuration

OPTIONAL: Filter the shapefile records (polygons)

1. Click 'Add filter'

2. Filter by column

In this example:
only NUTS 0

3. Apply Filter

4. Map updated

The screenshot shows the 'Domain configuration' dialog box in the INLINE application. The dialog has a 'Mail' tab and a 'Domain' tab. Under 'Domain configuration guidelines', there is a section for 'Upload shapefile ZIP: NUTS3.zip'. Below this, 'Select names column:' is set to 'NUTS_NAME'. A filter is added: 'LEVL_CODE' with the value '0'. The map shows Europe with NUTS regions. The background map shows flood hazard and risk maps.

INLINE notifications - Domain configuration

Configuration for notifications updates

Domain

Domain configuration guidelines

Upload shapefile ZIP: NUTS3.zip

Select names column: Ex: Shqipëria, Česko, Deutschland...

Save the domain

INLINE notifications - Domain configuration

Configuration for notifications updates

Mail Domain

Domain configuration guidelines

Upload shapefile ZIP: NUTS3.zip

Shapefile ZIP uploaded successfully.

Select names: Ex: Shqipëria, Česko, Deutschland...

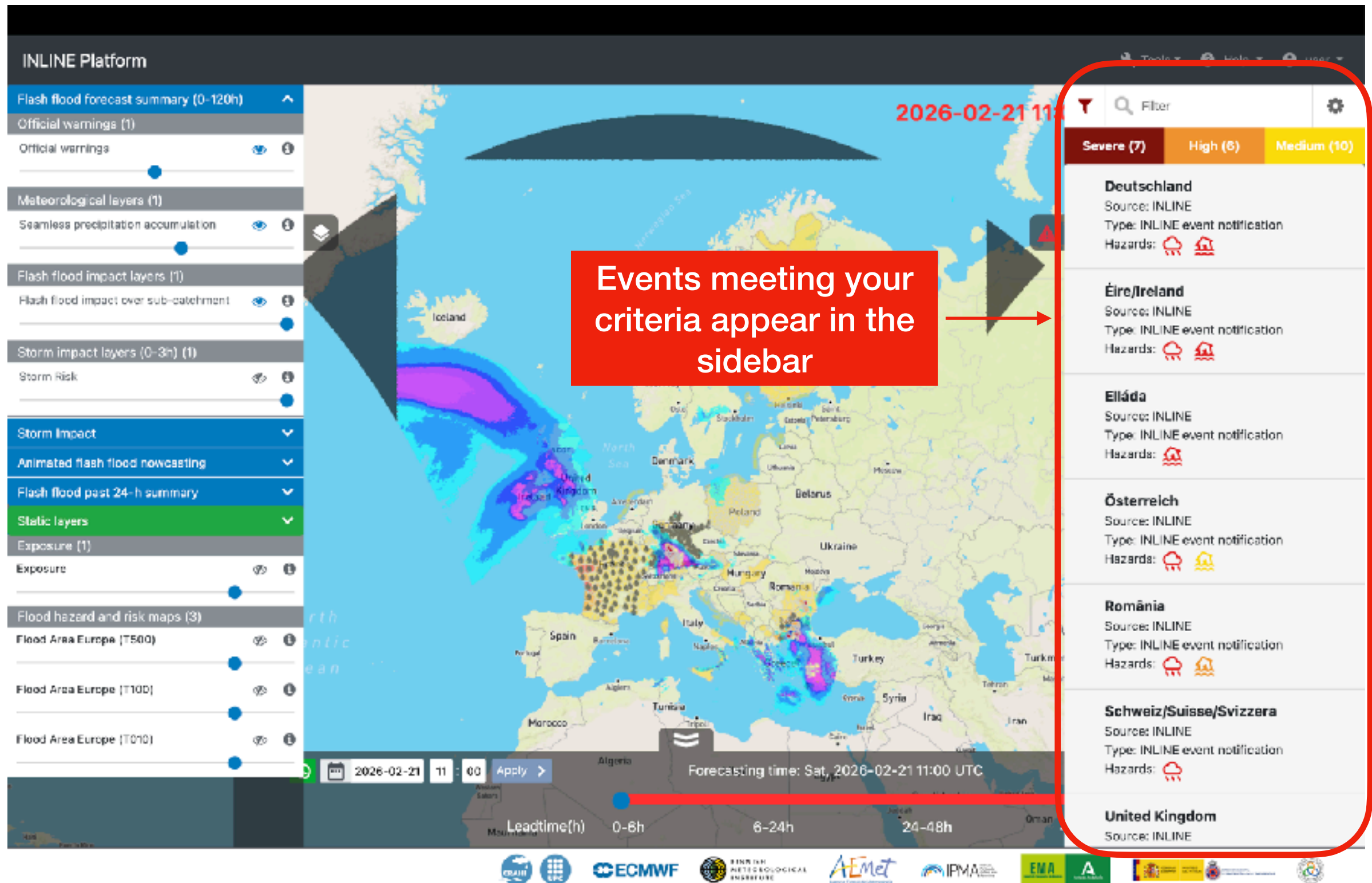
column:

+ Add Filter Apply Filters

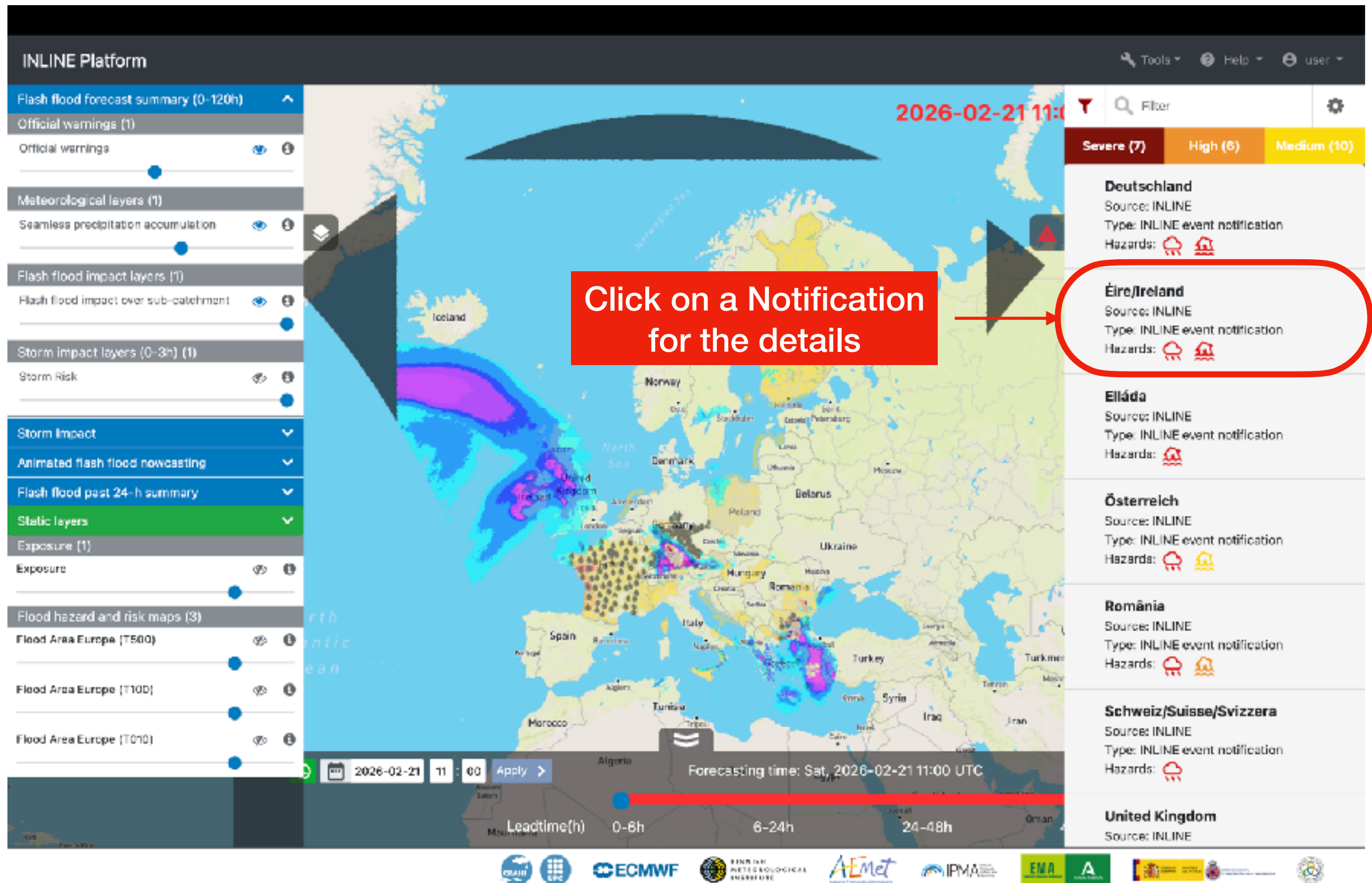
This message will be shown when successfully uploaded

2026-02-21

INLINE notifications - Notifications in the platform



INLINE notifications - Notifications in the platform



INLINE notifications - Notifications in the platform

The screenshot displays the INLINE Platform interface. On the left is a sidebar with various layers and maps. The main area shows a map of Ireland with flood warnings. A pop-up window titled "Notification details: Éire/Ireland" is open, showing a table of notifications.

Type	Product	Start Date	End Date	Description
	Urban Flood	2026-02-21 11:00	2026-02-21 12:00	Flood warning in Éire/Ireland.
	Flash flood impact	2026-02-21 11:00	2026-02-21 15:00	Flood warning in Éire/Ireland.
	Storm impact	2026-02-21 11:00	2026-02-21 14:00	Storm warning in Éire/Ireland.

Showing 1 to 4 of 4 entries

< Previous 1 Next >

Forecasting time: Sat, 2026-02-21 11:00 UTC

Leadtime(h) 0-6h 6-24h 24-48h

Severe (7) High (6) Medium (10)

Deutschland
Source: INLINE
Type: INLINE event notification
Hazards:

Éire/Ireland
Source: INLINE
Type: INLINE event notification
Hazards:

Elláda
Source: INLINE
Type: INLINE event notification
Hazards:

Österreich
Source: INLINE
Type: INLINE event notification
Hazards:

România
Source: INLINE
Type: INLINE event notification
Hazards:

Schweiz/Suisse/Svizzera
Source: INLINE
Type: INLINE event notification
Hazards:

United Kingdom
Source: INLINE

INLINE notifications - Email configuration

The screenshot shows the 'Configuration for notifications updates' dialog box in the INLINE Platform. The dialog has two tabs: 'Mail' (selected) and 'Domain'. It contains the following fields and options:

- Enable/disable mailing:** A checkbox that is checked.
- Frequency:** A dropdown menu set to 'Hourly'.
- Minimum level:** A dropdown menu set to 'High'.
- Email:** A text input field containing 'email1@example.com'.
- Other emails (optional, list them separated by commas):** A text input field containing 'email2@example.com,email3@example.com'.
- Products to be included on updates:** A section with several checkboxes:
 - ☒ Flash flood impact
 - ☒ Storm impact
 - ☒ Pluvial flood hazard in urban areas
 - ☐ Official warnings
 - ☐ EFAS notifications
 - ☒ Flooded area

At the bottom of the dialog are 'Close' and 'Save' buttons. The background shows a map of Europe with a flood forecast overlay.

Click 'Mail' tab

1. Enable receiving emails

2. Choose how frequently to receive emails

3. Select min warning level (Medium, High, Severe)

4. Enter email addresses

5. Select the products you wish to receive emails for

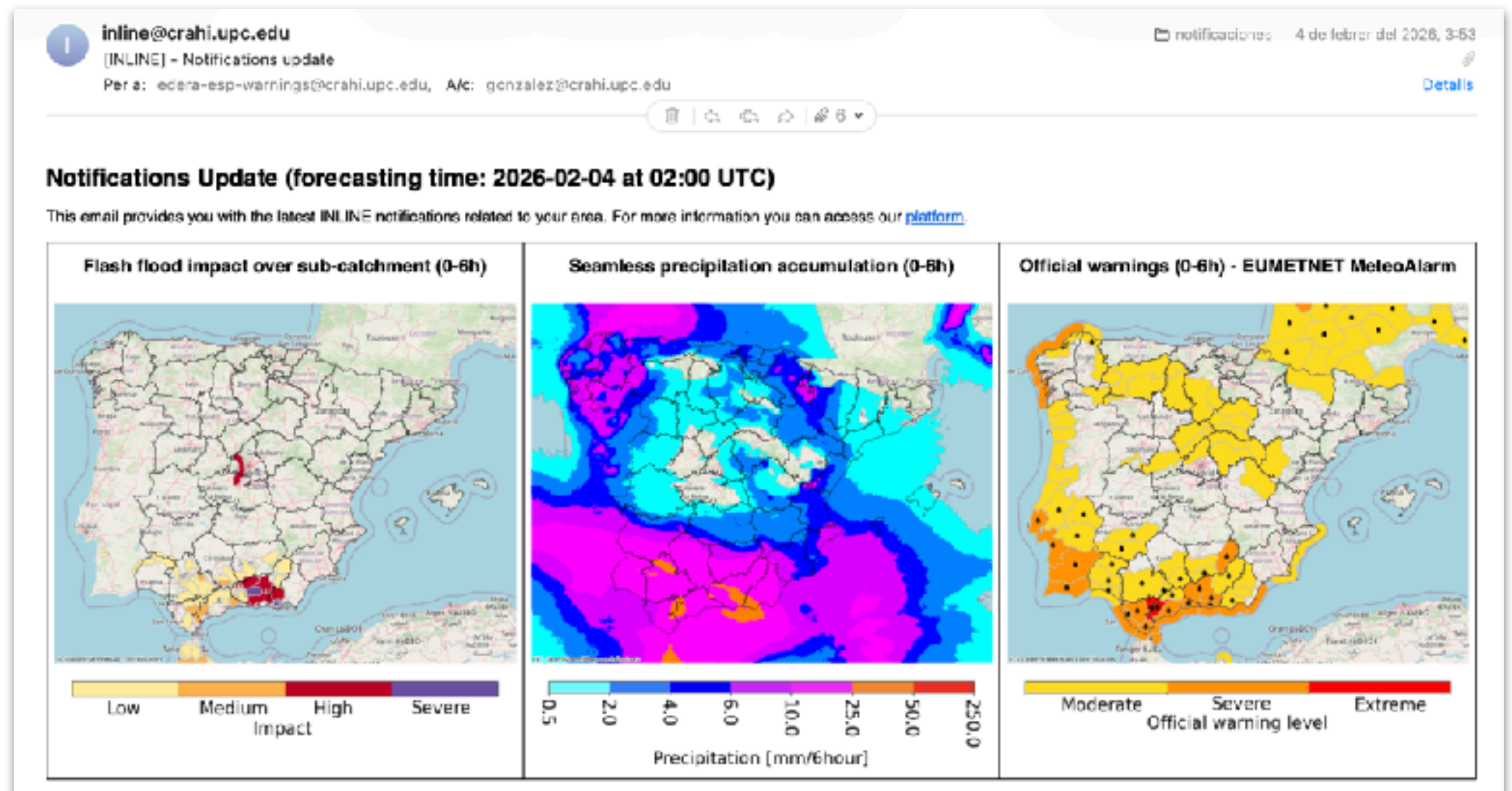
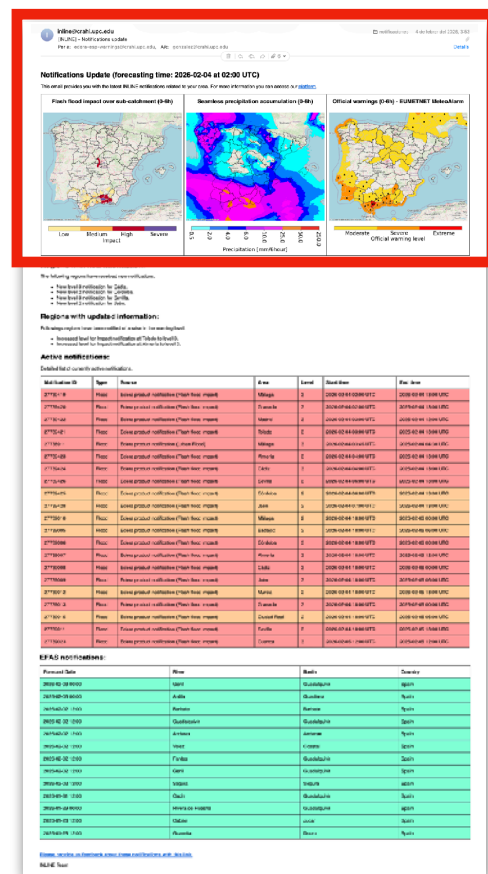
6. Save email configuration



INLINE notifications - Notifications email

First part:

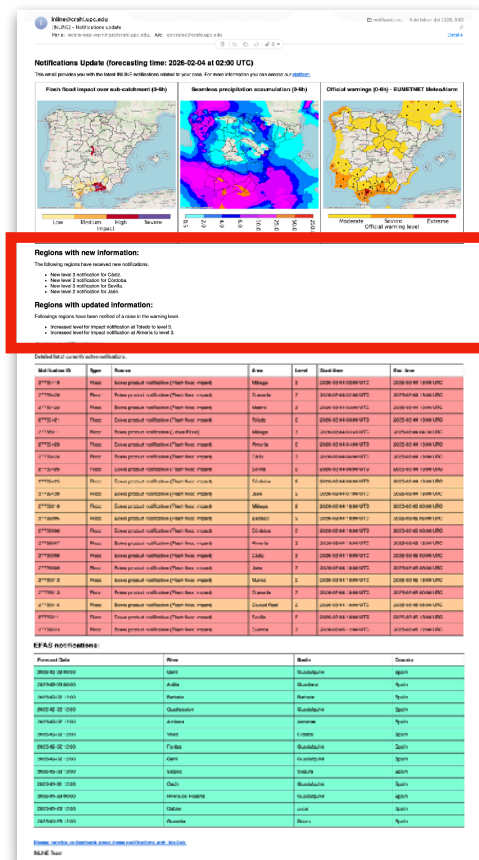
Image overview focused on the Domain of Interest for the following 6 hours



INLINE notifications - Notifications email

Second part:

Regions that has changed the level of impact from previous email



Regions with new information:

The following regions have received new notifications.

- New level 3 notification for Cádiz.
- New level 2 notification for Córdoba.
- New level 3 notification for Sevilla.
- New level 2 notification for Jaén.

Regions with updated information:

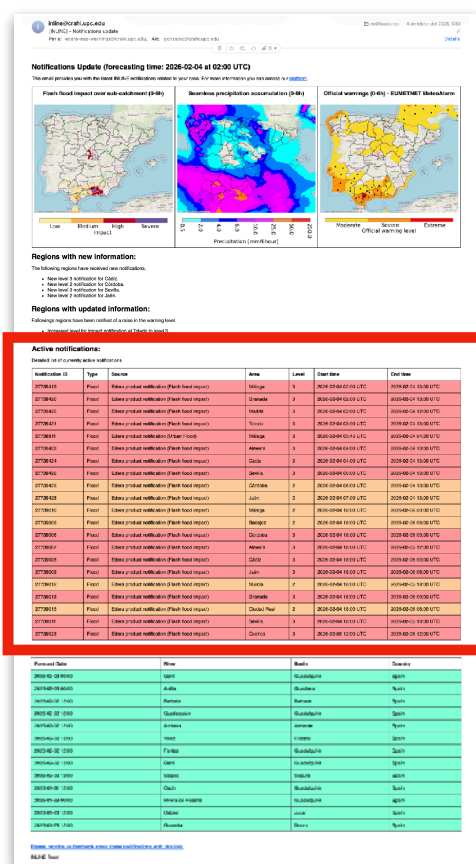
Followings regions have been notified of a raise in the warning level.

- Increased level for Impact notification at Toledo to level 3.
- Increased level for Impact notification at Almeria to level 3.

INLINE notifications - Notifications email

Third part:

All active notifications that match the email configuration



Active notifications:

Detailed list of currently active notifications.

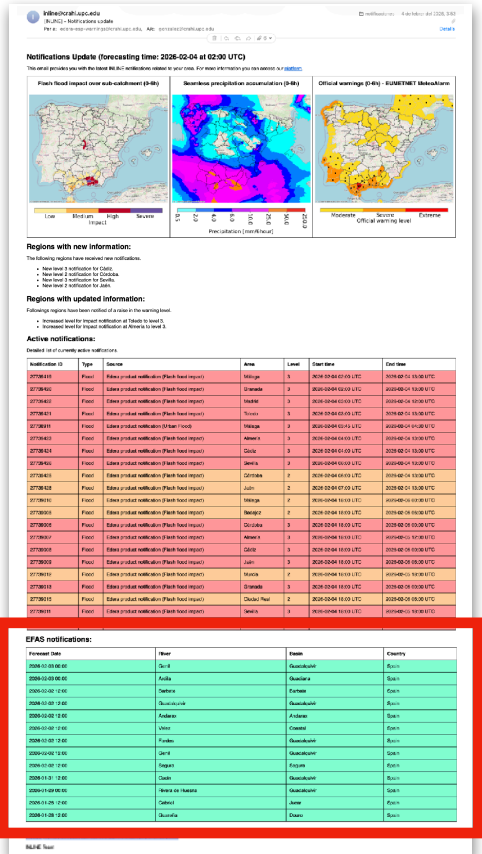
Notification ID	Type	Source	Area	Level	Start time	End time
27739419	Flood	Edra product notification (Flash flood impact)	Málaga	3	2026-02-04 02:00 UTC	2026-02-04 13:00 UTC
27739420	Flood	Edra product notification (Flash flood impact)	Granada	3	2026-02-04 02:00 UTC	2026-02-04 13:00 UTC
27739422	Flood	Edra product notification (Flash flood impact)	Madrid	3	2026-02-04 03:00 UTC	2026-02-04 12:00 UTC
27739421	Flood	Edra product notification (Flash flood impact)	Toledo	3	2026-02-04 03:00 UTC	2026-02-04 13:00 UTC
27739411	Flood	Edra product notification (Urban Flood)	Málaga	3	2026-02-04 03:45 UTC	2026-02-04 04:30 UTC
27739423	Flood	Edra product notification (Flash flood impact)	Almería	3	2026-02-04 04:00 UTC	2026-02-04 13:00 UTC
27739424	Flood	Edra product notification (Flash flood impact)	Cádiz	3	2026-02-04 04:00 UTC	2026-02-04 13:00 UTC
27739426	Flood	Edra product notification (Flash flood impact)	Sevilla	3	2026-02-04 06:00 UTC	2026-02-04 13:00 UTC
27739425	Flood	Edra product notification (Flash flood impact)	Córdoba	2	2026-02-04 06:00 UTC	2026-02-04 13:00 UTC
27739428	Flood	Edra product notification (Flash flood impact)	Jae'n	2	2026-02-04 07:00 UTC	2026-02-04 13:00 UTC
27739010	Flood	Edra product notification (Flash flood impact)	Málaga	2	2026-02-04 18:00 UTC	2026-02-06 00:00 UTC
27739005	Flood	Edra product notification (Flash flood impact)	Badajoz	2	2026-02-04 18:00 UTC	2026-02-06 00:00 UTC
27739006	Flood	Edra product notification (Flash flood impact)	Córdoba	3	2026-02-04 18:00 UTC	2026-02-06 00:00 UTC
27739007	Flood	Edra product notification (Flash flood impact)	Almería	3	2026-02-04 18:00 UTC	2026-02-05 12:00 UTC
27739008	Flood	Edra product notification (Flash flood impact)	Cádiz	3	2026-02-04 18:00 UTC	2026-02-06 00:00 UTC
27739009	Flood	Edra product notification (Flash flood impact)	Jae'n	3	2026-02-04 18:00 UTC	2026-02-06 00:00 UTC
27739012	Flood	Edra product notification (Flash flood impact)	Murcia	2	2026-02-04 18:00 UTC	2026-02-05 18:00 UTC
27739013	Flood	Edra product notification (Flash flood impact)	Granada	3	2026-02-04 18:00 UTC	2026-02-06 00:00 UTC
27739015	Flood	Edra product notification (Flash flood impact)	Ciudad Real	2	2026-02-04 18:00 UTC	2026-02-06 00:00 UTC
27739011	Flood	Edra product notification (Flash flood impact)	Sevilla	3	2026-02-04 18:00 UTC	2026-02-05 18:00 UTC
27739023	Flood	Edra product notification (Flash flood impact)	Cuenca	3	2026-02-05 12:00 UTC	2026-02-06 12:00 UTC

INLINE notifications - Notifications email

Fourth part:

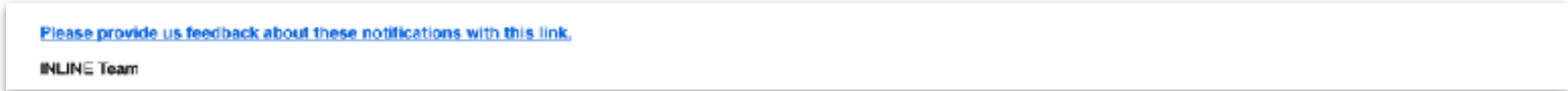
EFAS notifications active in the Domain of Interest.

Only available if the user selected to receive email with EFAS notifications.



EFAS notifications:			
Forecast Date	River	Basin	Country
2026-02-03 00:00	Genil	Guadalquivir	Spain
2026-02-03 00:00	Ardila	Guadiana	Spain
2026-02-02 12:00	Barbate	Barbate	Spain
2026-02-02 12:00	Guadalquivir	Guadalquivir	Spain
2026-02-02 12:00	Andarax	Andarax	Spain
2026-02-02 12:00	Velez	Coastal	Spain
2026-02-02 12:00	Fardes	Guadalquivir	Spain
2026-02-02 12:00	Genil	Guadalquivir	Spain
2026-02-02 12:00	Segura	Segura	Spain
2026-01-31 12:00	Cacín	Guadalquivir	Spain
2026-01-29 00:00	Rivera de Huesna	Guadalquivir	Spain
2026-01-28 12:00	Gabriel	Júcar	Spain
2026-01-28 12:00	Guareña	Douro	Spain

Last part:
Feedback link



INLINE notifications - SMS Notifications

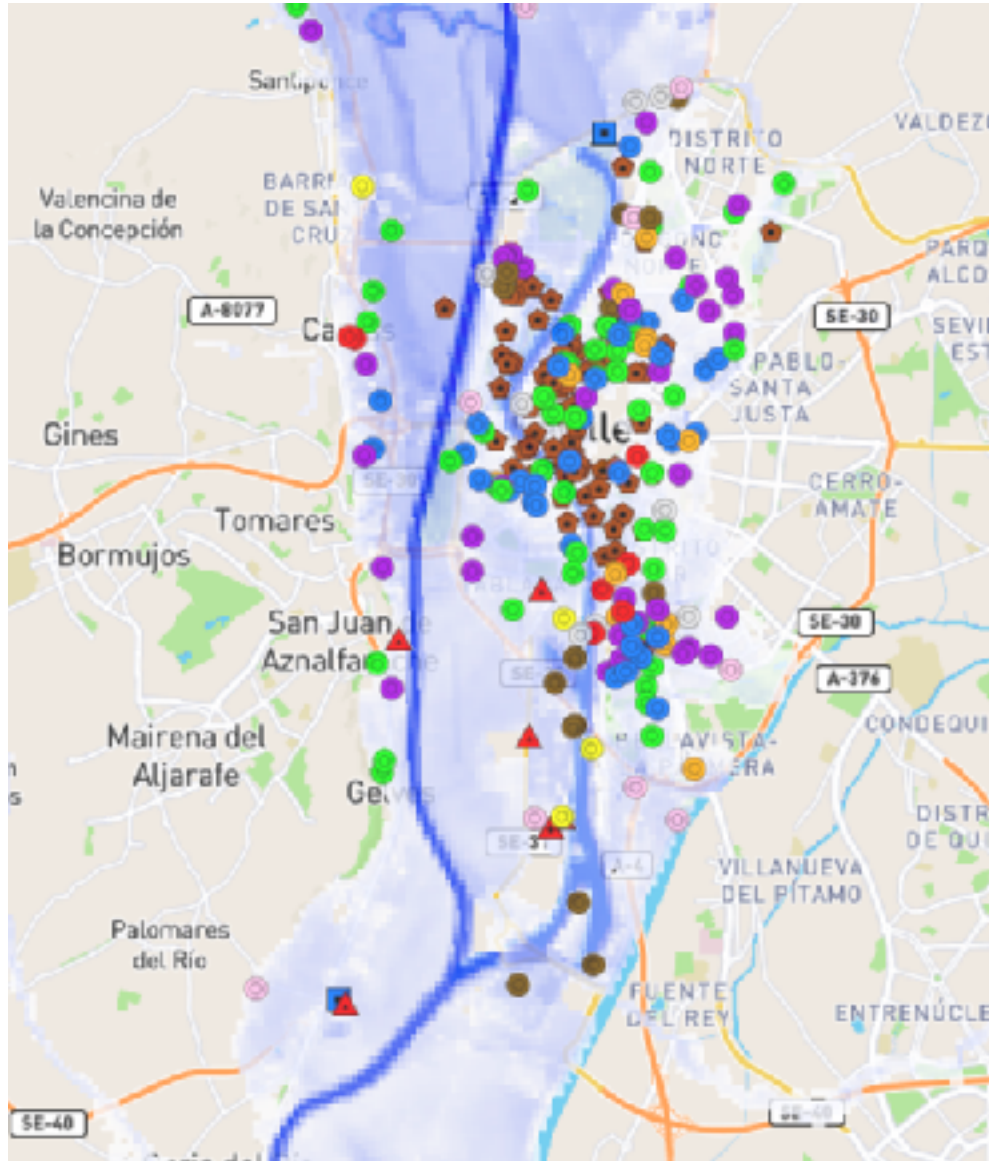


- Tested internally for the last weeks
- Only sent when a region reaches maximum level of notification
- Maximum one SMS per day
- Limitation of 160 characters
 - If only there is a notification for one region:
 - When it starts
 - Name of the region
 - If there are more than one region:
 - Number of active notifications

Improve notifications with High Resolution Exposure

- Use detailed regional exposure information to produce regional impact forecasts complementary to the Pan-European
- First demonstration done using datasets provided by EMA in Andalusia
- Two different types have been considered:
 - Critical Points
 - High Resolution Population map

Improve notifications with Critical Points



- Dataset: Critical Points in Flood Areas in Andalusia
- 13 categories (e.g. Education, Health, Industry)
- Each critical point is linked to the nearest EFAS grid cell that can be activated
- A Notification is triggered for the point if the linked EFAS grid cell is activated

Improve notifications with Critical Points

Notification details: Campi2a sevillana

Type	Product	Start Date	End Date	Description
Punto crítico	Punto crítico	2025-11-14 10:00	2025-11-14 14:00	Advertencia de inundación en Antigua capitanía general, sita en la plaza de la Gavidie (Campi2a sevillana).
Punto crítico	Punto crítico	2025-11-14 10:00	2025-11-14 14:00	Advertencia de inundación en Antigua casa consistorial (Campi2a sevillana).
Punto crítico	Punto crítico	2025-11-14 10:00	2025-11-14 14:00	Advertencia de inundación en Antiguas atarazanas reales (Campi2a sevillana).
Punto crítico	Punto crítico	2025-11-14 10:00	2025-11-14 14:00	Advertencia de inundación en Antiguo hospicio provincial y capilla doméstica (Campi2a sevillana).
Punto crítico	Punto crítico	2025-11-14 10:00	2025-11-14 14:00	Advertencia de inundación en Antiguo hospital de las Cinco Llagas (Campi2a sevillana).
Punto	Punto	2025-11-14	2025-11-14	Advertencia de inundación en Baños de la Reina Mora

Forecasting time: Fri, 2025-11-14 02:00 UTC

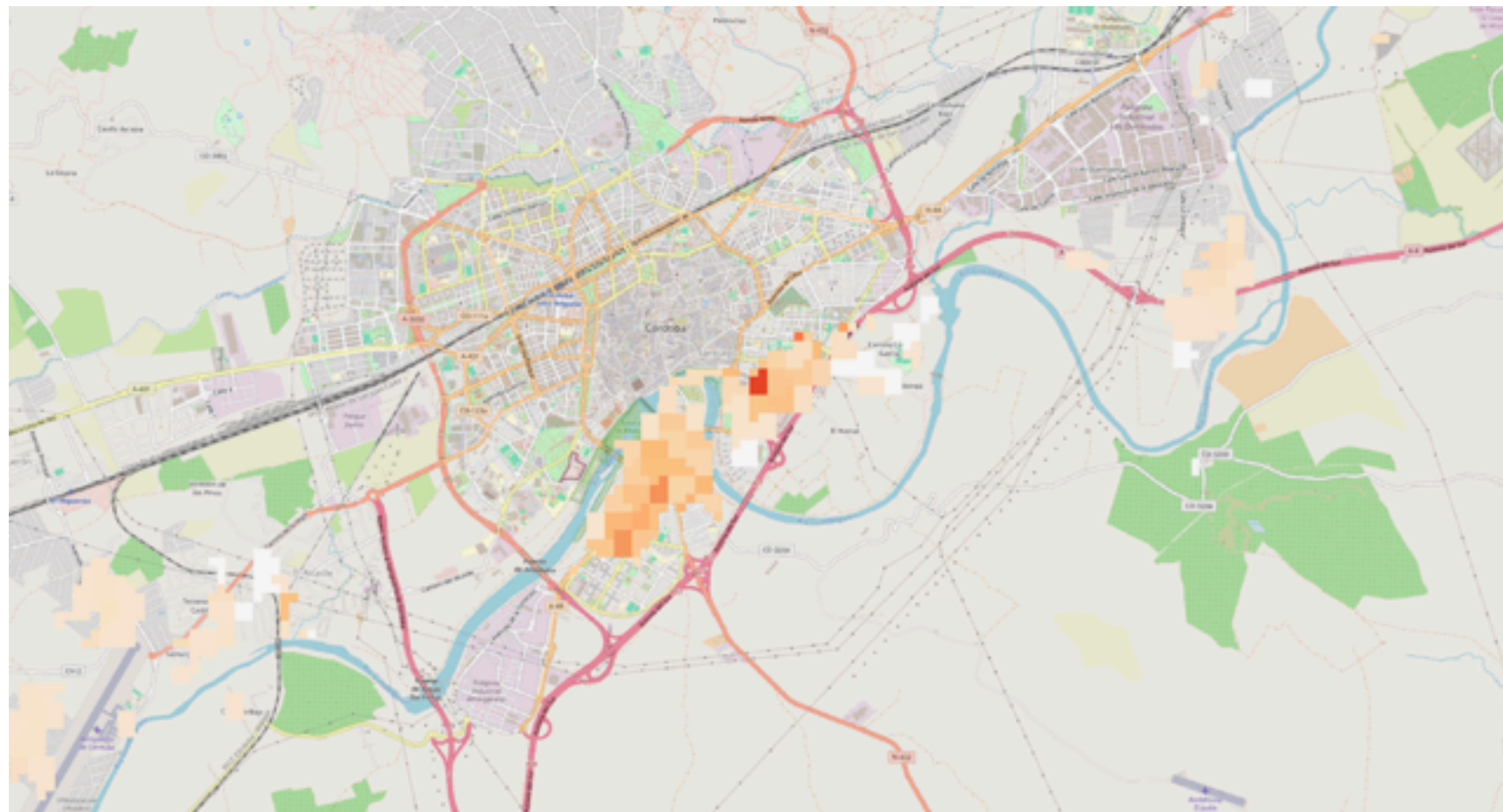
Leadtime(h) 0-6h 6-24h 24-48h 48h

In the platform:

- Listed along the other notifications of the Region where the point belongs
- Product: “Critical Point”
- Description: contains the name of the Critical Point

Improve notifications with Population

- Dataset: Population with a resolution of 250 m
- Pre-processed: Intersected with the flooded-area to obtain the population count within each grid cell of the flood hazard map.
- Each grid cell of the flood hazard map is linked to its nearest EFAS grid cell



Improve notifications with Population

In the platform:

- The product Flooded Area also includes an estimated exposed Population

 Notification details: **Campi2a cordobesa** ×

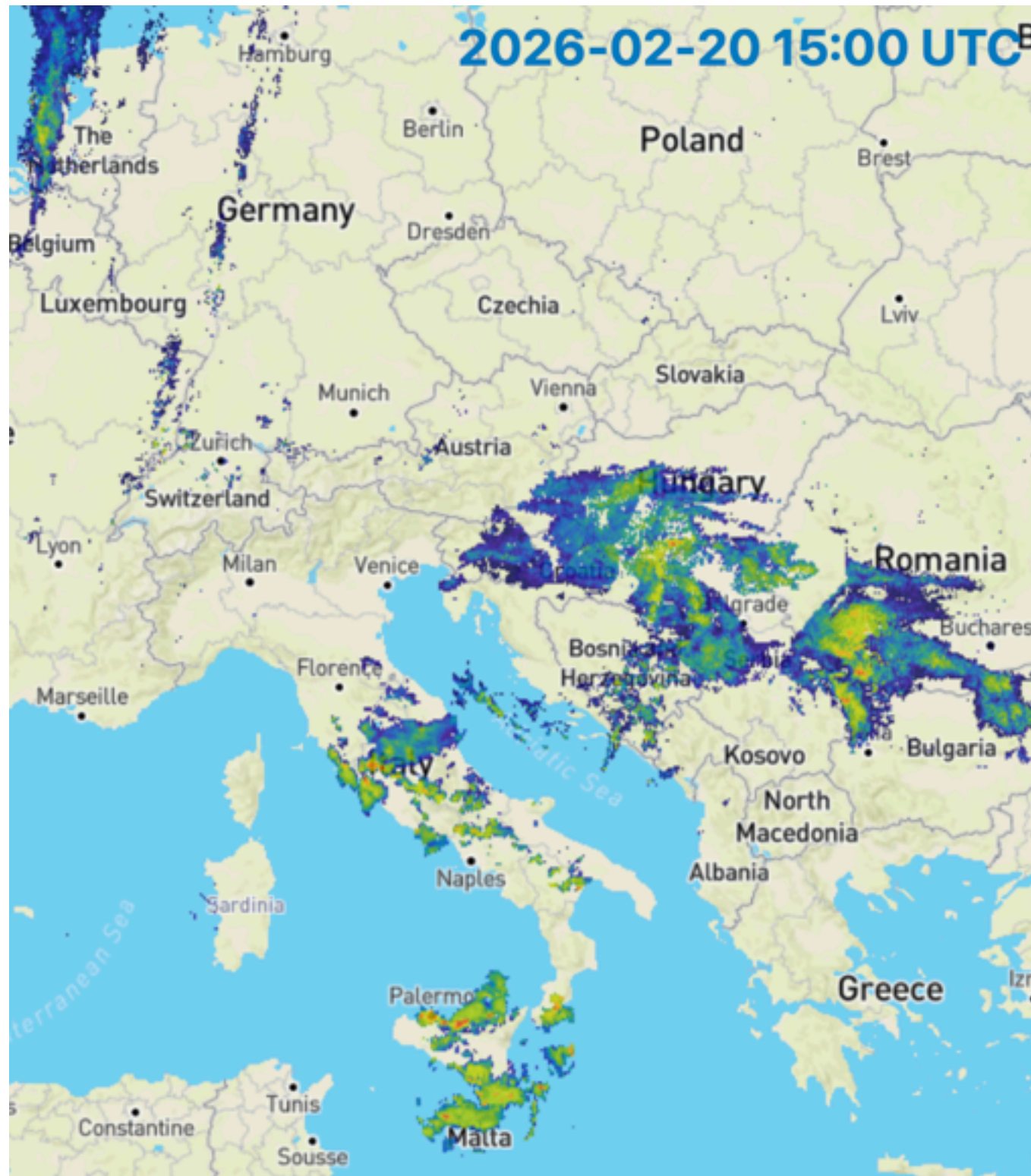
Type	Product	Start Date	End Date	Description
	Flooded area	2025-10-29 16:00	2025-10-29 20:00	Advertencia de inundación en Campi2a cordobesa.
	Flooded area	2025-10-29 16:00	2025-10-29 20:00	Advertencia de inundación en zona inundable en Campi2a cordobesa. Población expuesta estimada: 198

Showing 1 to 2 of 2 entries < Previous 1 Next >

Improve notifications: JRC Flood Hazard Maps

- Currently, this is done using regional Flood Maps.
- Future steps: Integrate JRC Flood Hazard Maps
 - Will allow us to implement this methodology to all Europe without the necessity of regional Flood Maps

Integration of Italy radar



- SRI Italy Radar is now OpenData
- We have started downloading it and combining with OPERA

Thank you for your attention!