

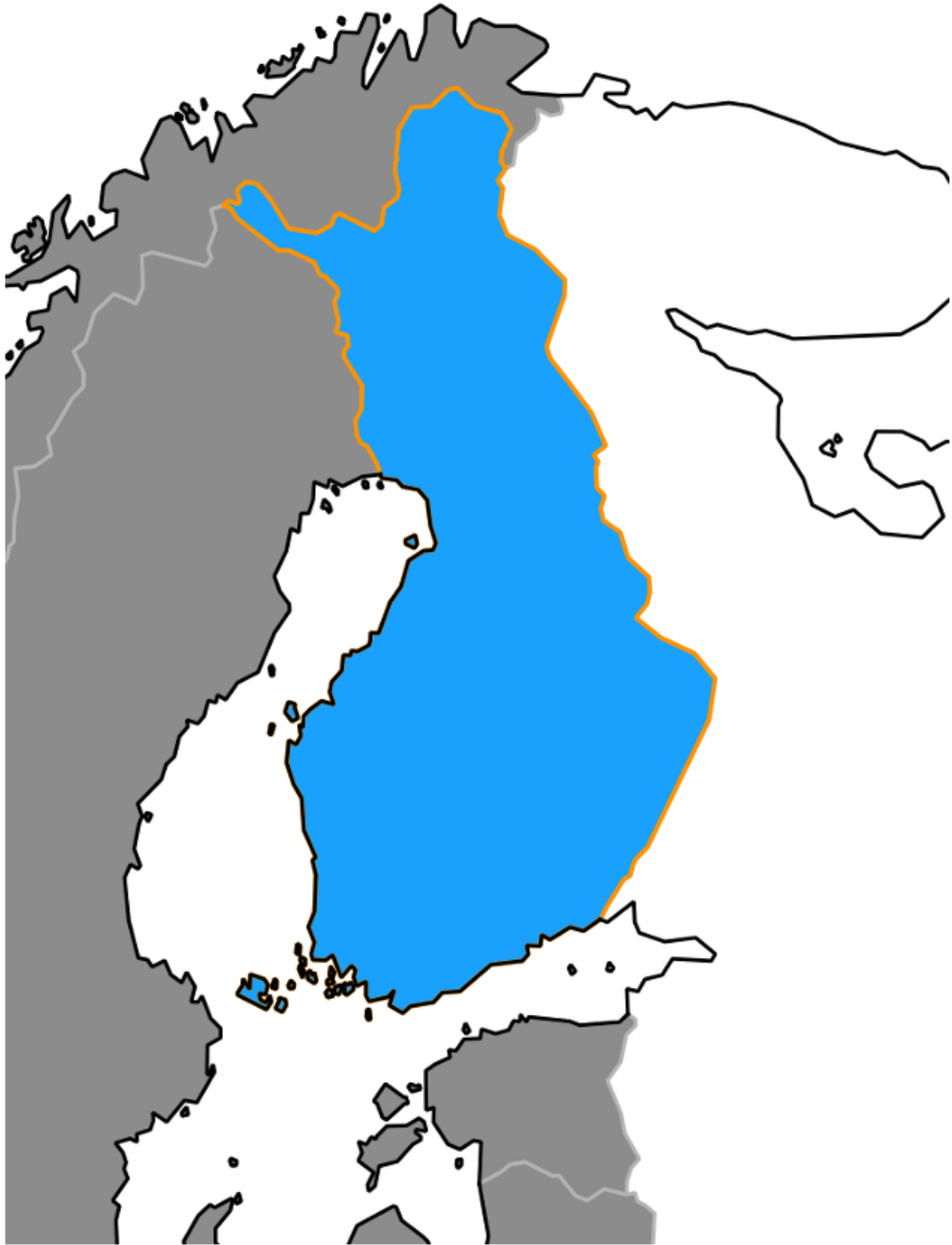
Hands-on Analysis of Case Studies

09:30 – 10:30

Finland Pilot Site

Case study events for Finland		
Dates	Affected Area	Description
08/07/2023 08:00 UTC - 18:00 UTC	South and southeast Finland, Helsinki	Heavy rainfall across south and southeast Finland, floods in Helsinki
27/08/2023 03:00 UTC - 11:00 UTC	Helsinki	Heavy rainfall and flooding
31/08/2023 00:00 UTC - 15:00 UTC	Southern Finland, particularly in Helsinki	Heavy rainfall and flooding

FI pilot site



Finnish Meteorological Institute
Helsinki Rescue Department
Kymenlaakso Rescue Services
North Karelia Rescue Services
SYKE (Finnish Environment Institute)

Aim

Analyse the case studies discussed in previous session using the products on the EDERA web viewer

- Use the workflows that we discussed yesterday afternoon

For each case study:

- Start ~3 days ahead of the event – look at summary layers
 - <3 hrs ahead – look at storm impact products
 - <6 hrs ahead – look at animated flash flood products
- When did the forecast products start to show a signal of possible flooding?
- Which products were useful in showing the flooding?
- How accurate were the products in predicting:
 - The affected location
 - The timing of the event

Load next forecast

Load Forecast
Date

Load next forecast

<3 hours before
Storms & Pluvial Floods

Storm Impacts –
Load Storm Hazard

No — Does Storm Hazard show
ellipses in area of interest?

Yes

Load Wind/Hail/
Precip'/ Lightning
hazard layers

Which hazards
show ellipses in
area of interest?

Load Storm Impact
& Pluvial layers

Which areas are
most at risk of
impacts?

River Flash Floods

Load Flash flood
forecast summary –
sub-catchment layer

Are any sub-catchments
highlighted? — No

Yes <6 hours before

Animated flash flood nowcasting

Load Precipitation
nowcasting – how much
rain is expected to fall?

Load Flash flood impact
over river network & sub-
catchment

Identify the areas
& timing of
flooding &
Identify the
severity level