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Oder river disaster in media

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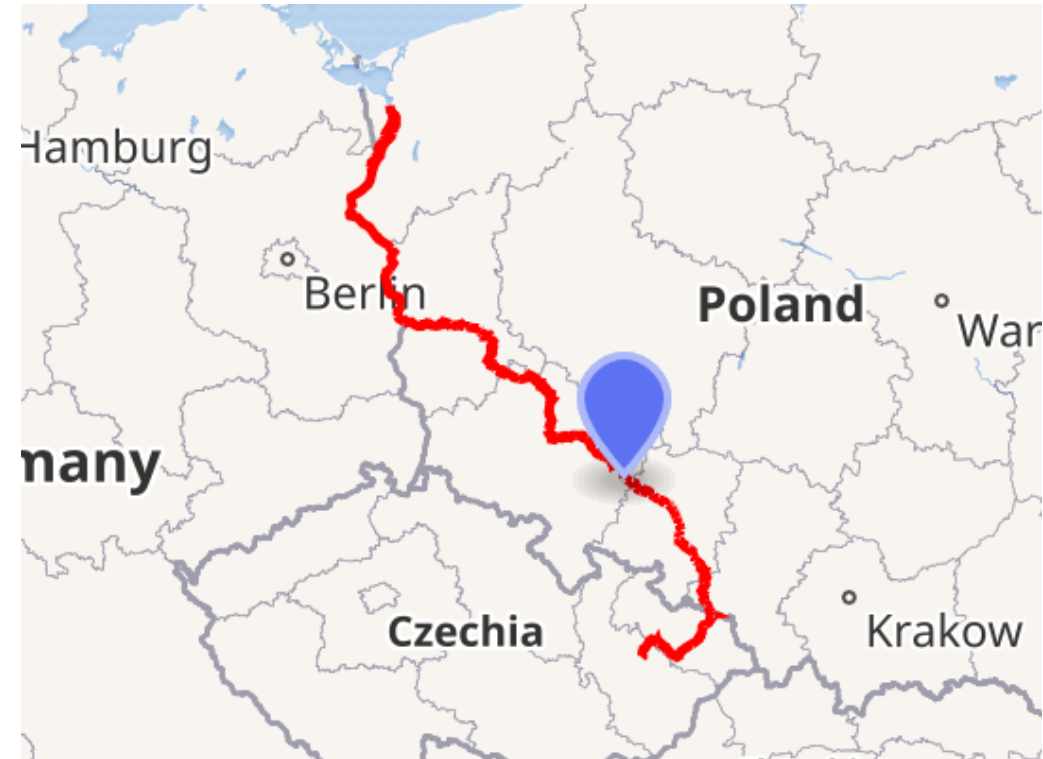
Digital traces on the Internet from One health perspective – a
methodological seminar
Berlin, 29.08.2022

<https://blogs.fu-berlin.de/infodemic-corona/2022/08/19/oder-river-disaster-in-media/>

Real-time monitoring of Polish and German media during Odra River ecological disaster: infoveillance (i.e. source detection and early warning) and infodemiology (i.e. discourse narratives, information needs and fake news propagations).

Oder

- Situation at Odra/Oder river shows a potential of media monitoring in infoveillance (early warning)
- infodemiology (analysis of the discourse) within.
- it requires international cooperation. The problem appear between Opole Region Lower Silesia, then river passes large city of Wrocław, then move through Lubusz region it reaches the German (Brandenburg)–Polish border, and then drains along the border through Western Pomerania Province into Szczecin Lagoon shared between Poland Germany (Mecklenburg-Vorpommern) which is linked with the the Baltic Sea.



Tools

Using content in Polish and German between 25.07-18.08.2022 with the help of monitors

- Buzzsumo,
- Brand24,
- Twitter API,
- EventRegistry,
- Frazeeo
- Google trends
- Youtube comments
- Wikipedia

some results of One Health importance are discussed.

Between 01-03.08 there was no mention of the appearance of the dead fishes outside angling forums (dead fishes appeared in the mainstream of the Oder in Wrocław, but not in quantities indicating an ecological disaster).

July, movement of contaminated sediment from the river bed (discussion on ecological media)

03.08. The Wrocław Left-wing party members intervened in the public and political sphere.

29-31.07 media coverage in Oława media about fish kill

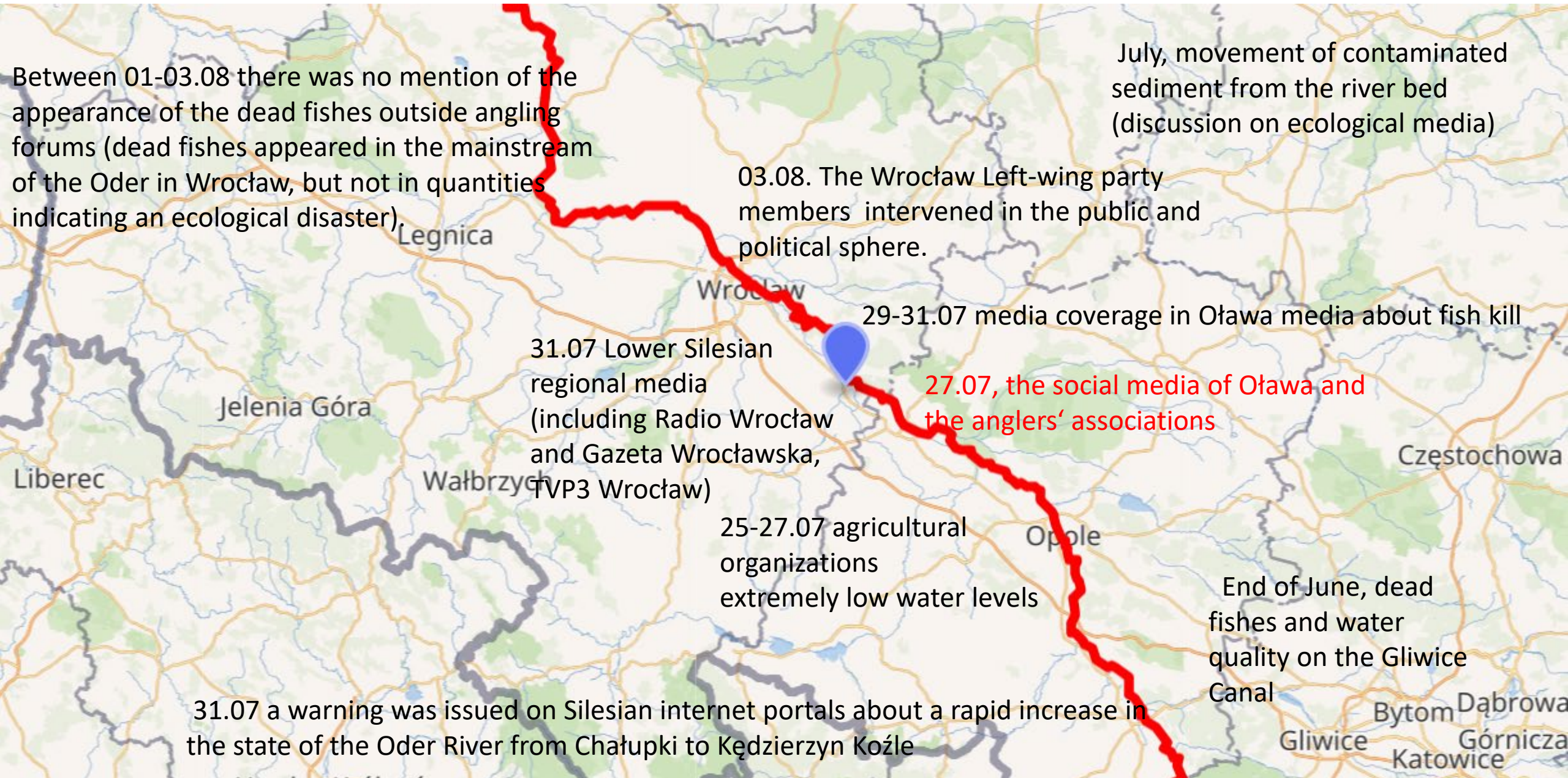
27.07, the social media of Oława and the anglers' associations

31.07 Lower Silesian regional media (including Radio Wrocław and Gazeta Wrocławska, TVP3 Wrocław)

25-27.07 agricultural organizations extremely low water levels

End of June, dead fishes and water quality on the Gliwice Canal

31.07 a warning was issued on Silesian internet portals about a rapid increase in the state of the Oder River from Chałupki to Kędzierzyn Koźle





On 11.08 German regional broadcaster spread a rumour about contamination of water with Mercury). This rumour was officially cancelled by authorities on 13.08, but information become ,alive' in media for a while.

10.08 is further propagation on nationwide media and nationwide social media. Only now are nationwide environmental organisations getting involved

On 10.08 fist mentions appeared on the German regional internet (as the wave of death fishers reached the German part of the Oder river).

06-07.08, a discussion developed on the web portals and social media of Głogów.

On 09.08 the mainstream media in Lubusz (Gazeta Lubuska, Radio Zachód etc.) publicise the issue (previously Lower Silesia media did it). On 09.08 nationwide media (Onet, Dziennik, TVPinfo, Interia, Wprost, SE) reported on the incident too

04.08 there were reports from Głogów (about smell and single dead fishes).

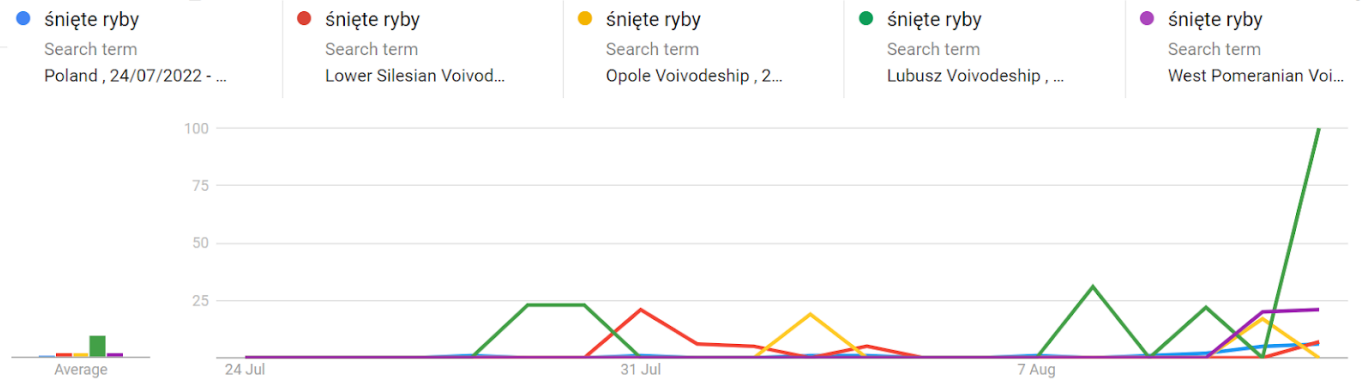
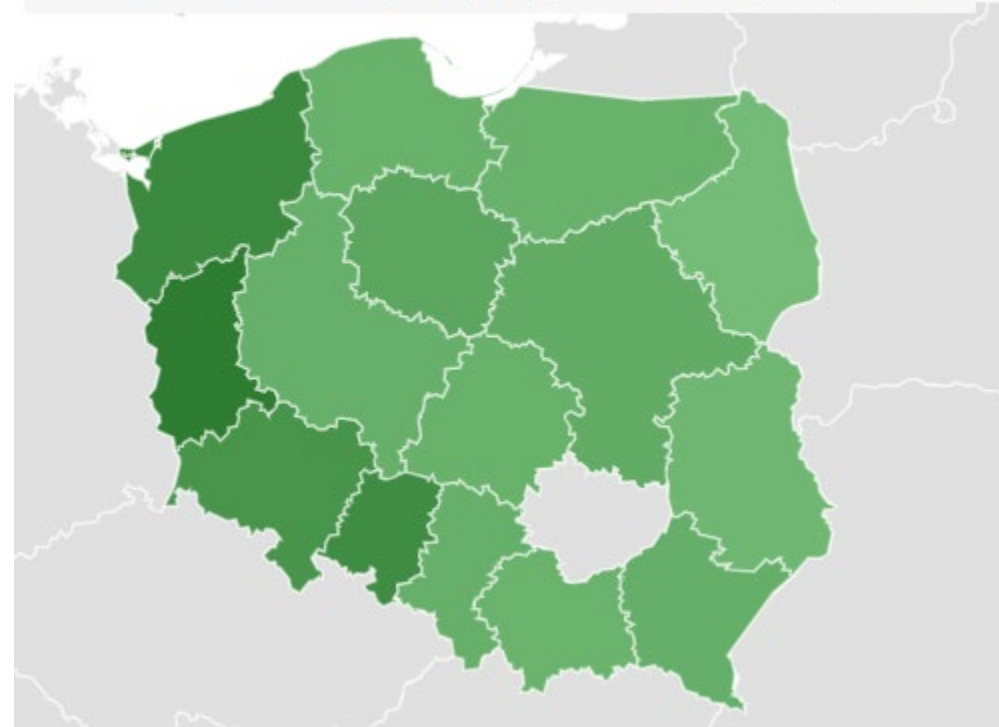
06-07.08, anglers discussed the large number of dead fishes on the so-called „dead Oder“ in various areas around Wrocław.

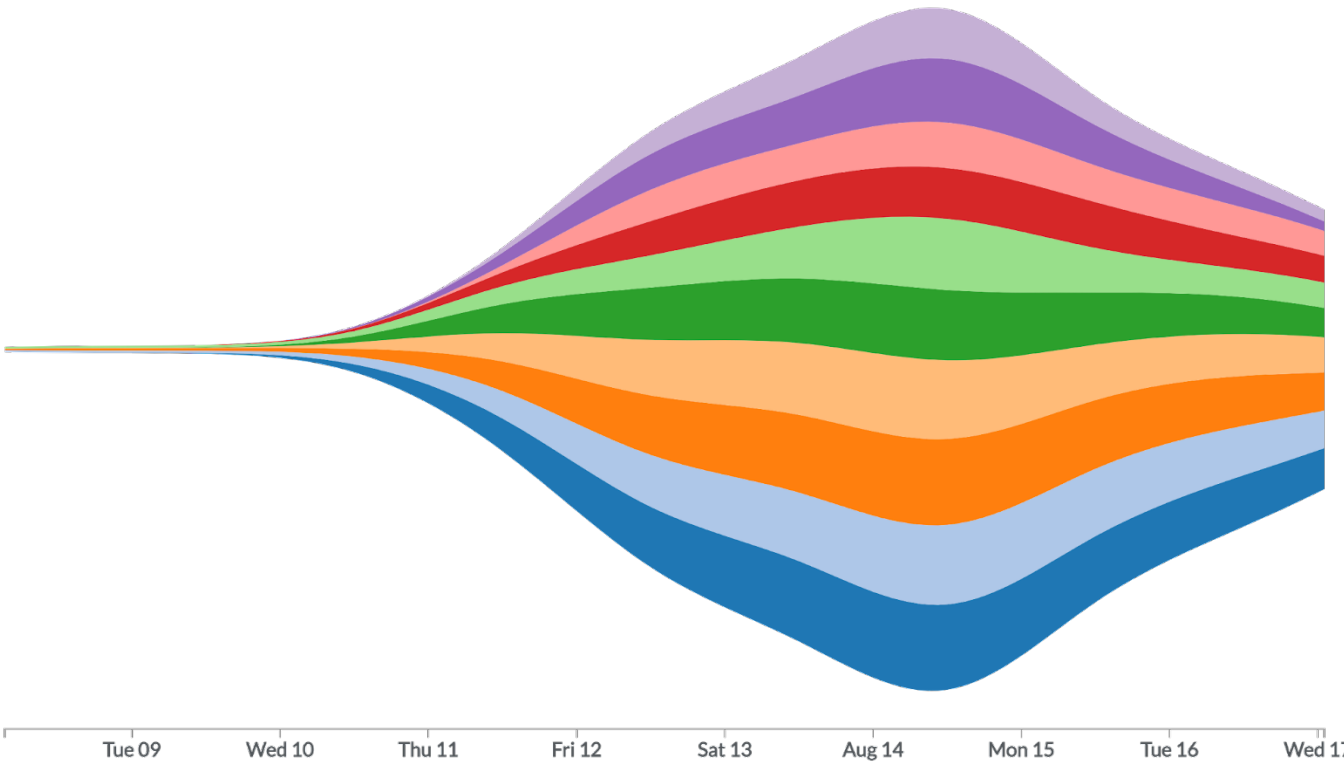
Geography

Fish kill - Germany,
26/07/2022 - 19/08/2022

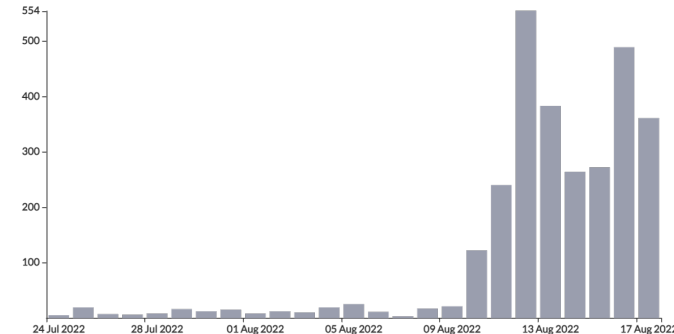


Fish kill - Poland, 26/07/2022 - 19/08/2022

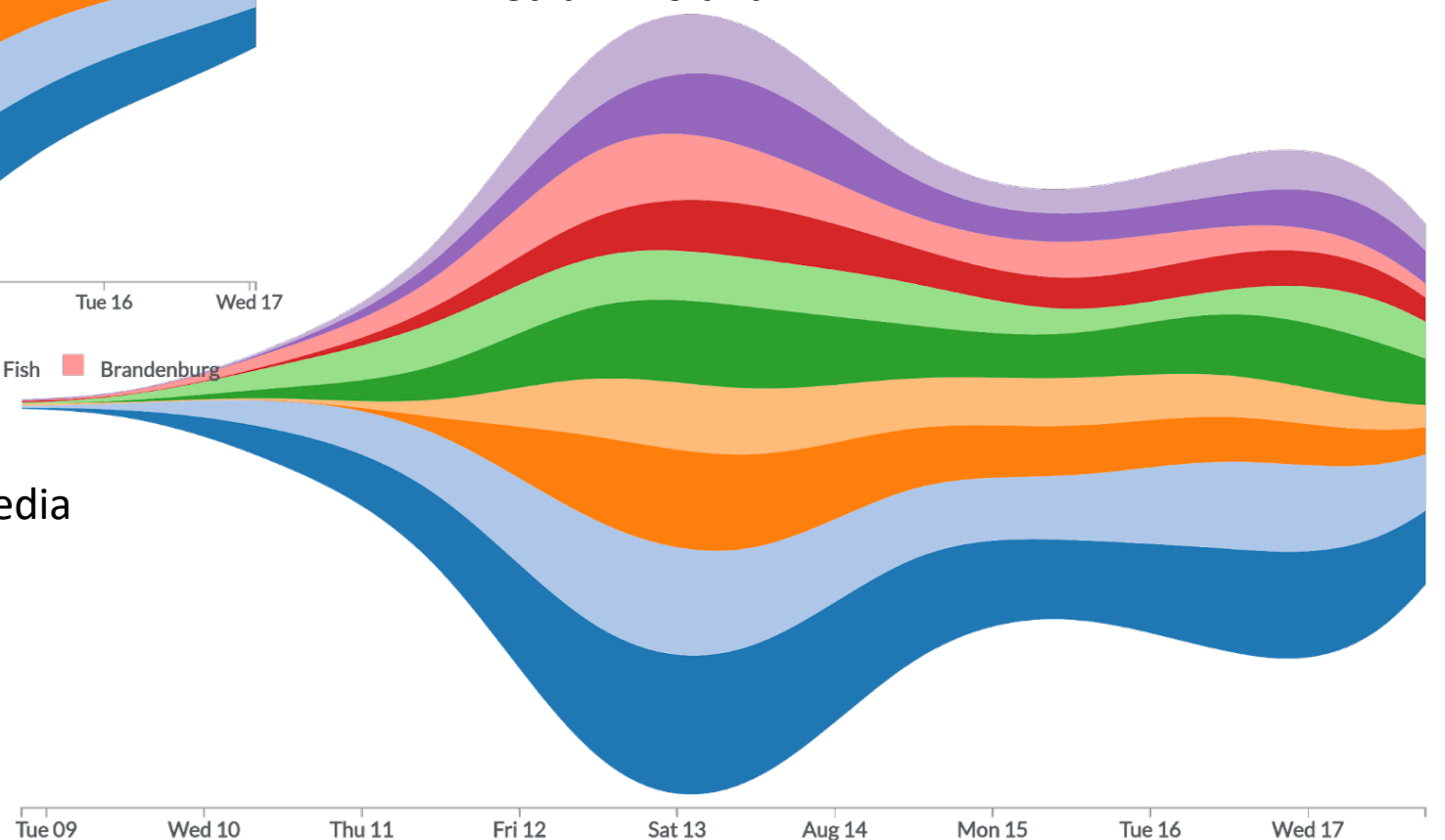
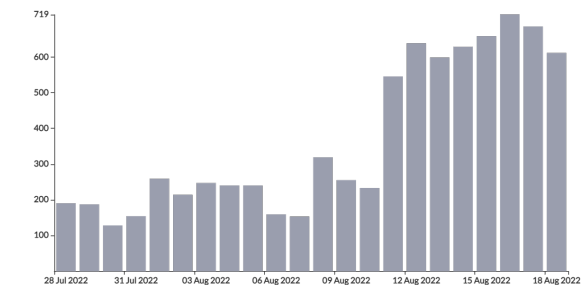




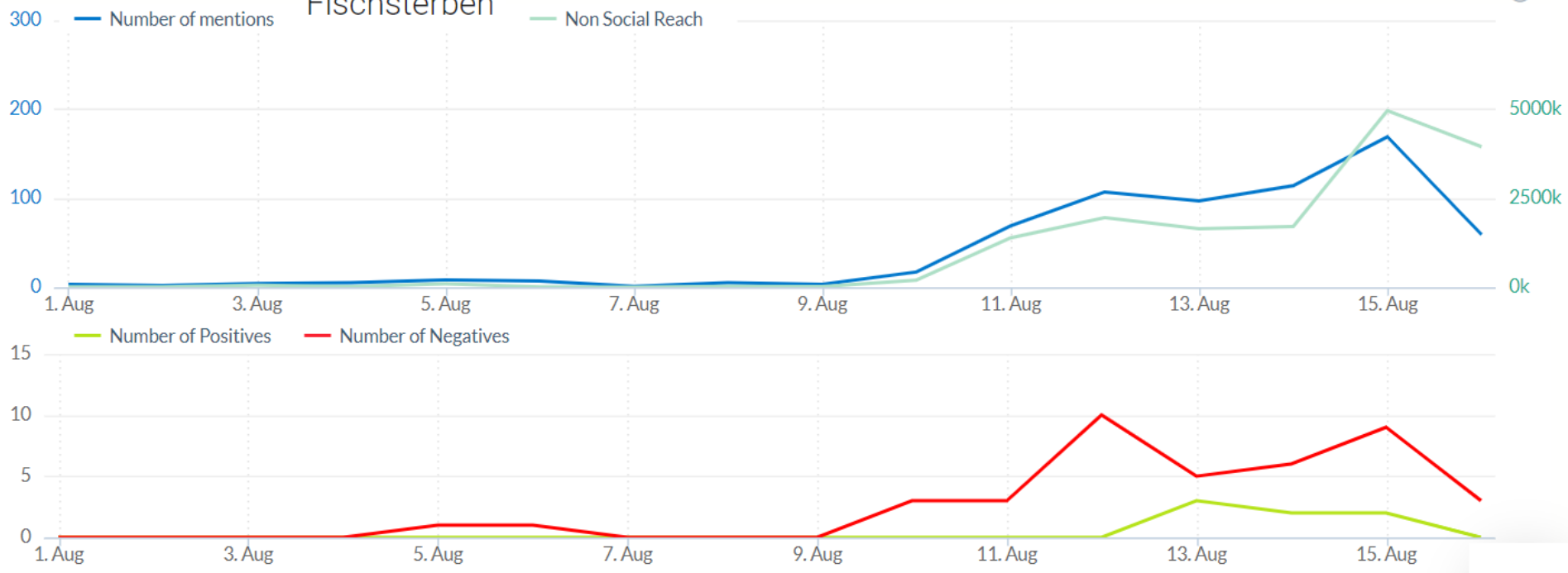
Subtopics within topic of Oder in traditional online media in Poland



Subtopics within topic of Oder in traditional online media in Germany

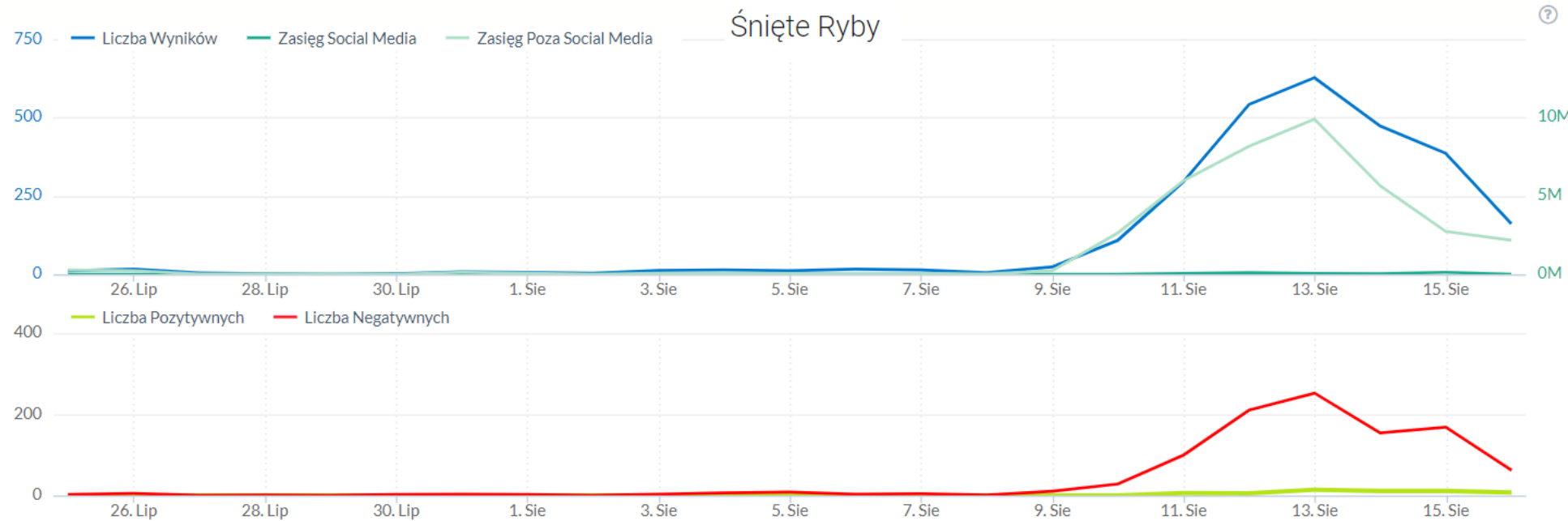


Fischsterben



Germany

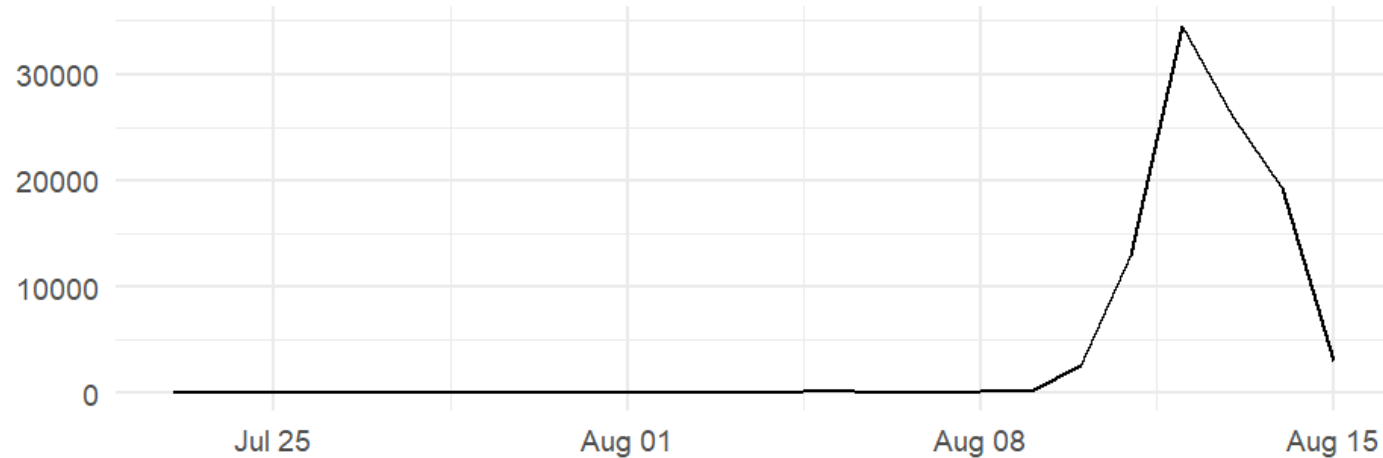
Śnięte Ryby



Poland

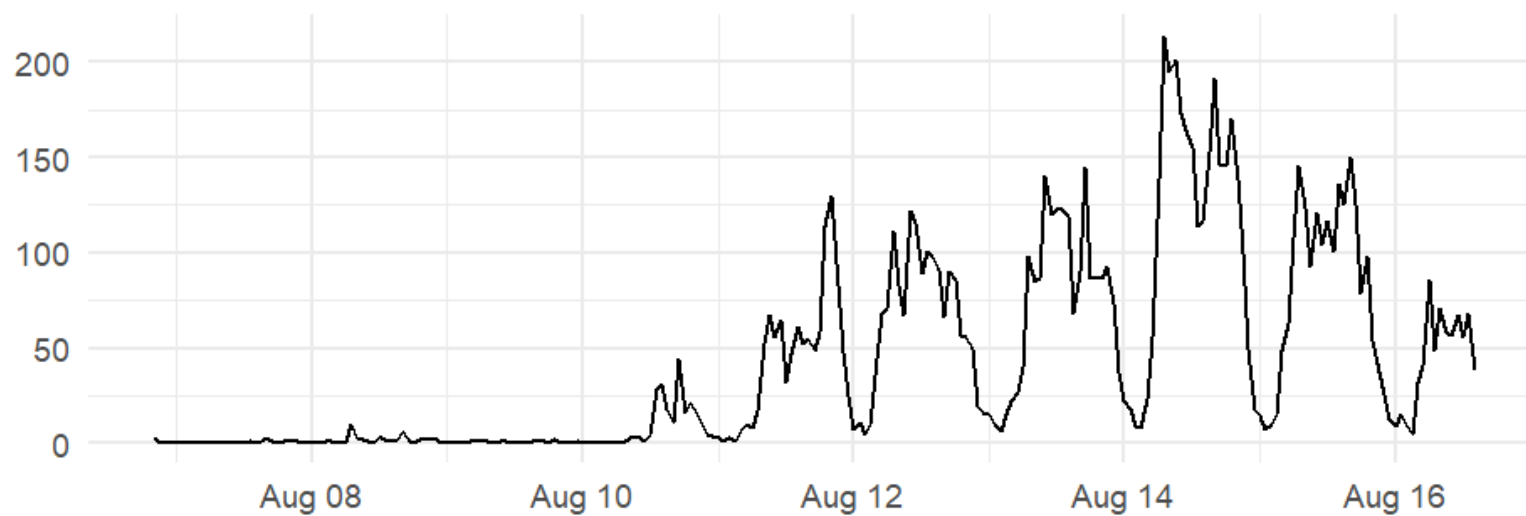
Oder (Polish)

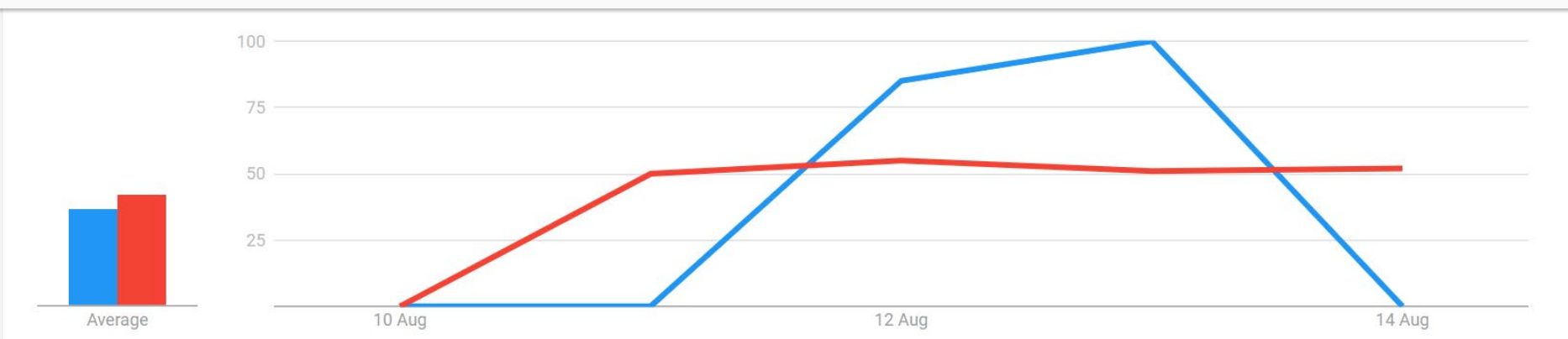
Tweet counts aggregated using daily interval



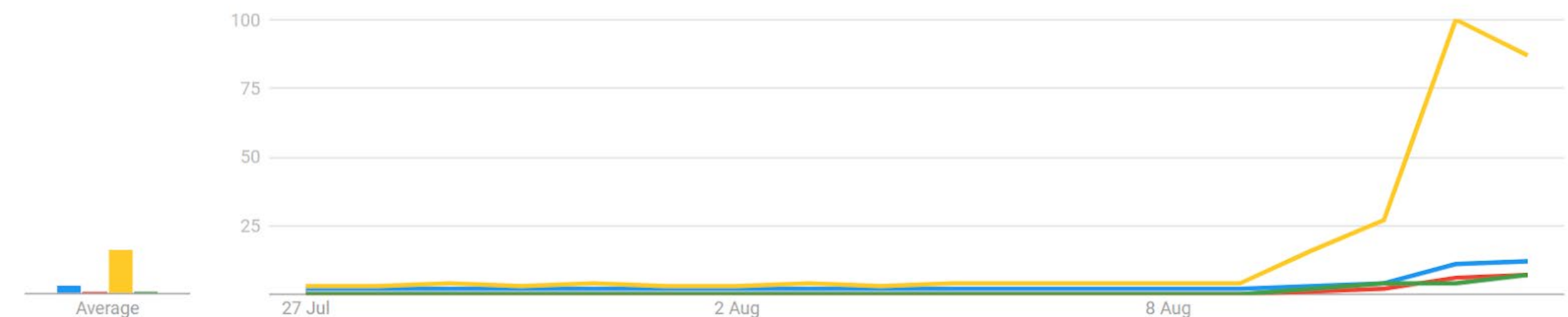
Kill fish (German)

Twitter status (tweet) counts aggregated using hourly interval

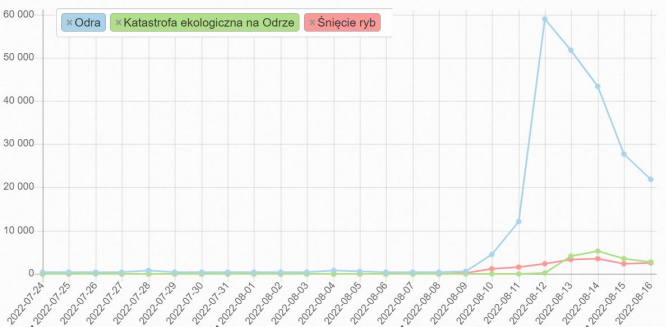




Ukrainian/refugee minority
(~10% of ppulation in
Odra region)
communication issues?



Trajectories of relative search queries: RSV (daily) of given keywords for Poland and Germany (interest in Poland is around 10-folds bigger than in Germany in Google queries)



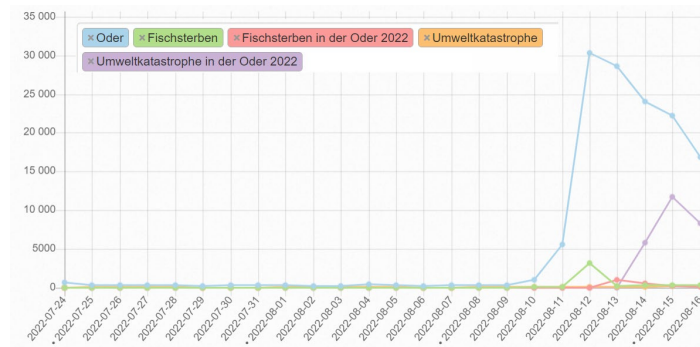
Interest over time ?

● Environmental di...
Disaster type
Germany , 26/07/20...

● Fish kill
Topic
Germany , 26/07/20...

● Environmental di...
Disaster type
Poland , 26/07/2022 ...

● Fish kill
Topic
Poland , 26/07/2022 ...



The disaster has different names in Poland and in Germany. In Poland it's mainly called "Katastrofa Ekologiczna" Ecological/Environmental Disaster, however in German internet its usually called "Fischsterben" (Fish kill), however the popularity of each terms was changing with time

To do

- infoveillance - correlating spatio-temporal local media and social media releases with chlorophyll concentration (by spectral vision analysis of historical data) in Oder and its tributaries; early warning systems (role of different signalists).
- Infodemic – propagation of fake news (i.e. rumour about Mercury or draining water from retention reservoirs by people in power who “knew” about leakage of toxic substances), narration comparison between Poland and Germany (i.e. different position of climate change topic), communication needs of Ukrainian population