

European Drought Observatory for Resilience and Adaptation



No 09200200.A092005/2021/862347/ENV.C.1 – Lot 1 “Development and implementation of a drought impact database, a drought risk assessment methodology and a drought risk atlas”



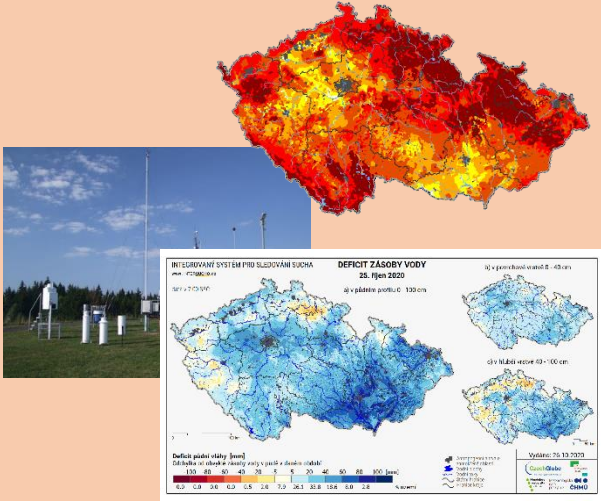
Operational monitoring of drought impacts in Czechia

Monika Bláhová
Global Change research Institute CAS

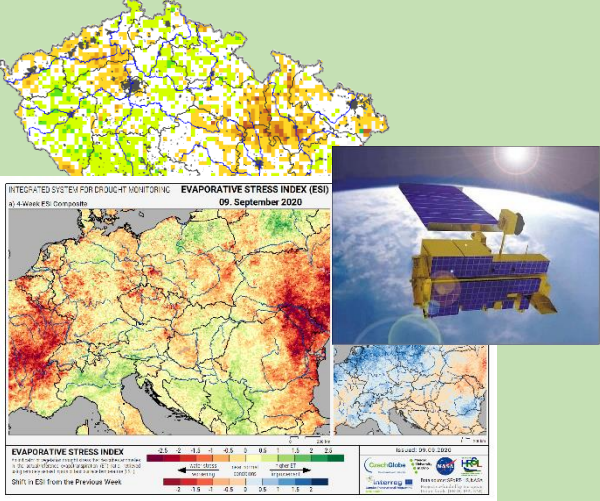
National drought monitoring in Czechia

- One of the 3 main components of the national drought monitoring system at www.intersucho.cz

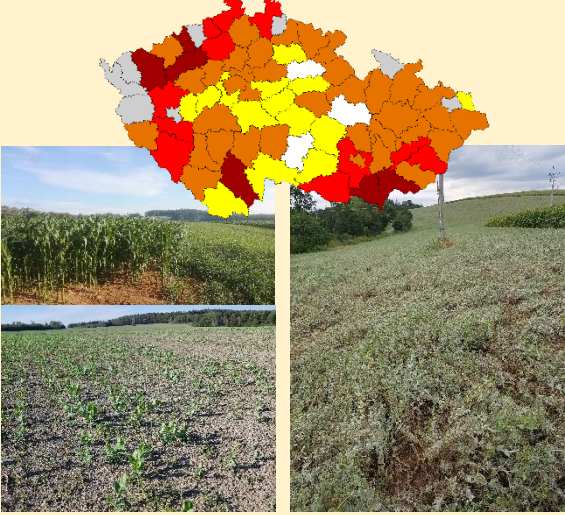
SoilClim



Remote sensing



Reporters



National reporting network

- A voluntary group of reporters with expertise in agriculture and similar industries
- Weekly reporting soil moisture content and drought impacts on their localities
- Evaluation is based on their expertise and knowledge of the locality – no measurements
- Reporting done with an easy and accessible online questionnaire

National reporting network

- 4 types of questionnaire
 - Agriculture (365)
 - Fruit growing and viticulture (20)
 - Forestry (10)
 - Seedlings (5)
- 400 reporters active weekly, 1100 registered

Questionnaire

Soil Moisture Evaluation

Agriculture

IMPACTS ON YIELD

Winter wheat, winter barley, winter rye, spring barley, oats, winter rapeseed, sunflower, poppy seed, hops, sugar beet, potatoes, corn, silage corn, alfa alfa, other clovers, permanent grassland

Forestry

IMPACTS ON PRODUCTION

Coppice and young plantation (good and poor water storage habitats), Natural forest regeneration (good and poor water storage habitats)

Fruit and viticulture

IMPACTS ON YIELD

Apple/pear trees
Apricot/peach trees
Cherry and morello cherry trees
Plum trees
Grapevine
Hops

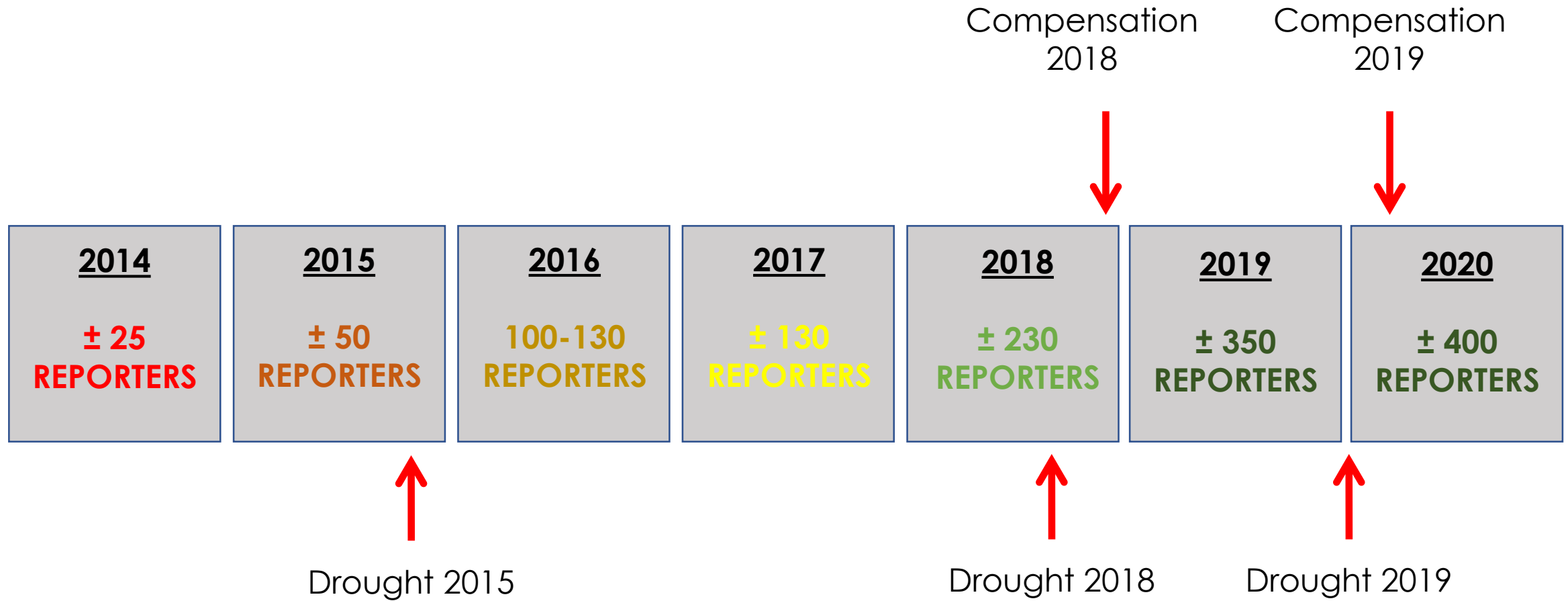
Seedlings

IMPACTS ON PRODUCTION

This years)

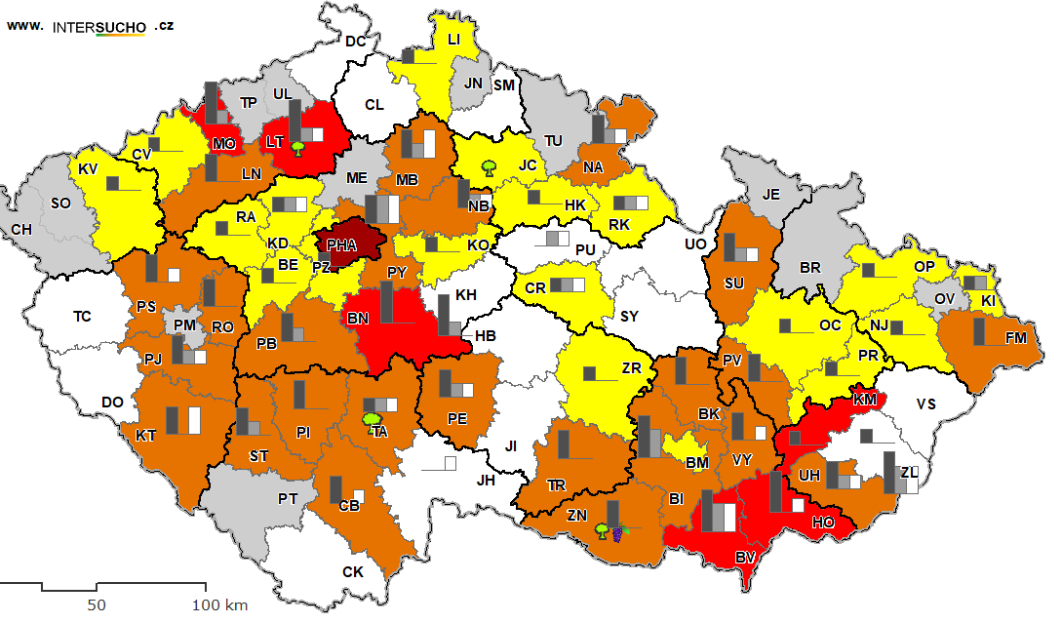
Comments and pictures

National reporting network

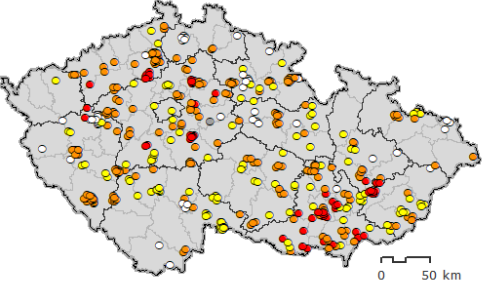


Results

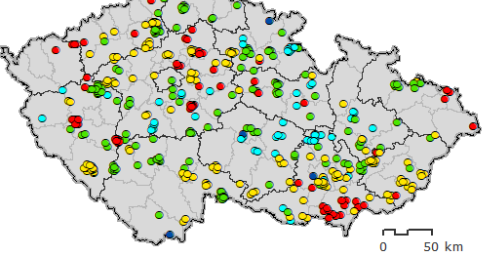
1. ODHADOVANÉ DOPADY SUCHA NA VÝNOS HLAVNÍCH PLODIN



2. VODNÍ BILANCE ZA POSLEDNÍ TŘI MĚSÍCE



3. AKTUÁLNÍ OBSAH PŮDNÍ VLÁHY V ORNIČNÍ VRSTVĚ



- 1.**
- bez vlivu sucha
 - sucho ovlivnilo porosty, ztráta výnosů do 10 %
 - střední poškození suchem, ztráta výnosů 10 - 30 %
 - těžké poškození suchem, ztráta výnosů 30 - 40 %
 - extrémní poškození suchem, ztráta výnosů nad 40 %
 - chybí hlášení
 - bez vlivu sucha
 - sucho bez vlivu na výnos
 - sucho snižuje výnos
 - sucho zásadně snižuje výnos
 - ječmen + pšenice + řepka
 - cukrovka + brambory
 - kukuřice
 - ovocné stromy
 - vinná réva

- 2.**
- extrémně sucho - deficit srážek/intenzivní sucho s výraznými dopady
 - velmi sucho - deficit srážek s pozorovat. negativními dopady sucha
 - průběh spíše sušší bez viditelných dopadů
 - normální stav / průběh spíše vlhčí, bez negativních dopadů
 - velmi vlhko - s pozorovatelnými negativními dopady
 - extrémně vlhko - nadbytek srážek s negativními dopady
- 3.**
- půda naomak suchá a neformovatelná
 - půda naomak sušší bez známek vlhkosti, rozsypavé struktury
 - půda mírně vlhká, možné zformovat, ale nízká soudržnost
 - půda vlhká, dobře tvarovatelná
 - půda velmi vlhká, ulpívá na prstech
 - nelze hodnotit

Vydáno: 02.06.2022

Poskytovatel dat:


Zpracovatelé:


- A voluntary group of reporters with expertise in agriculture and similar industries
- Weekly reporting soil moisture content and drought impacts on their localities
- Evaluation is based on their expertise and knowledge of the locality – no measurements
- Reporting done with an easy and accessible online questionnaire

Complex global impacts monitoring

DI

Share the very real data from your landscape

Drought Impacts

Share the very real data from your landscape

E-mail

Your location

Edit location on map

I am observing these drought impacts in my region



Soil water content



Agriculture / crops and food availability



Forestry



Household water and food supply



Hydrology & rainfall



Tourism, business, industry



Wildfires



Public health, restrictions & relief

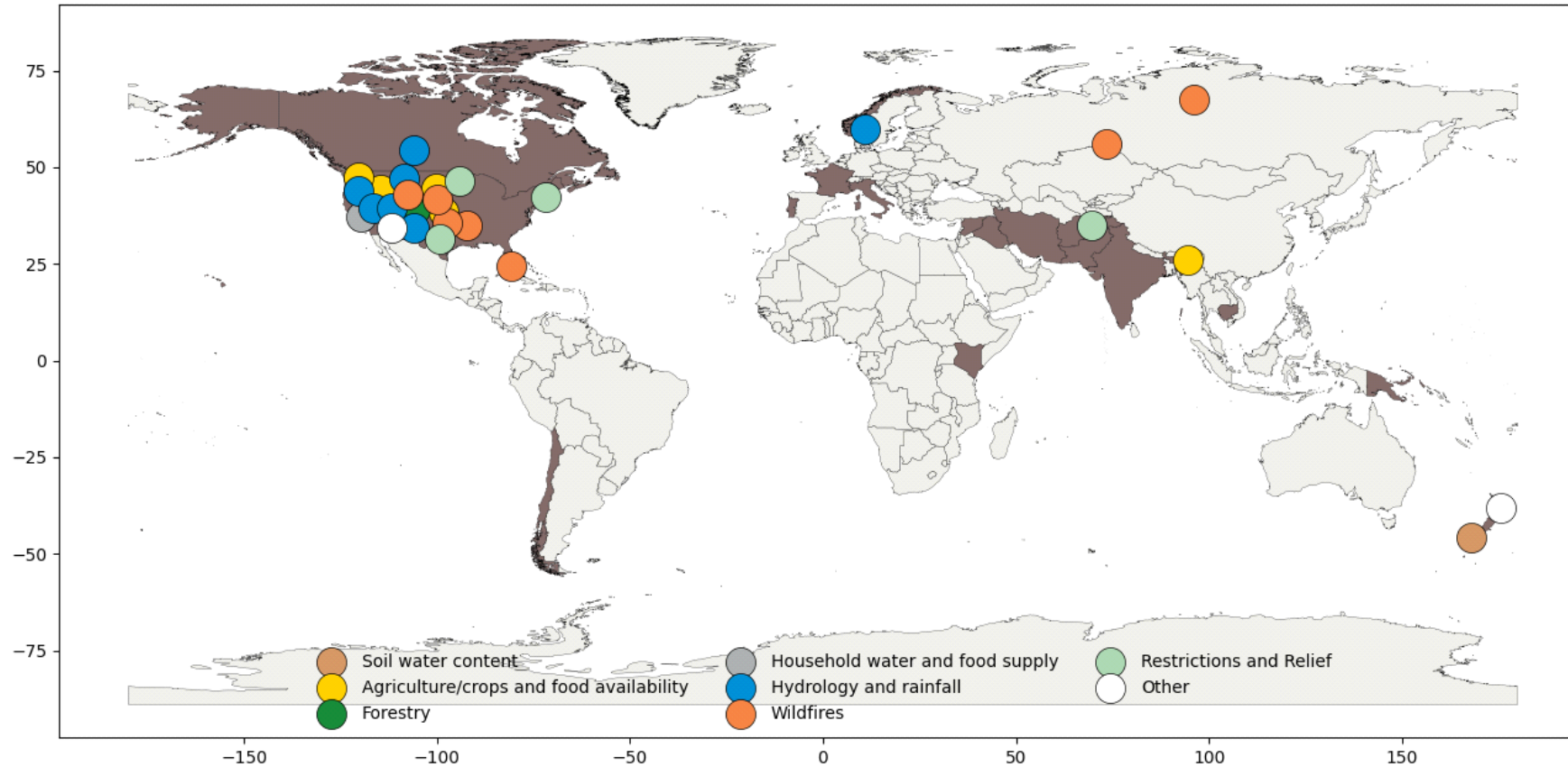


No impacts

- <https://droughtimpacts.eu/en/>
- Cooperation with windy.com

Complex global impacts monitoring

Drought impacts from online media mining (2022-04-01 to 2022-06-01)



Thank you for attetntion

Monika Bláhová
blahova.m@czechglobe.cz

European Drought Observatory for Resilience and Adaptation



No 09200200.A092005/2021/862347/ENV.C.1

Lot 1 “Development and implementation of a drought impact database, a drought risk assessment methodology and a drought risk atlas”