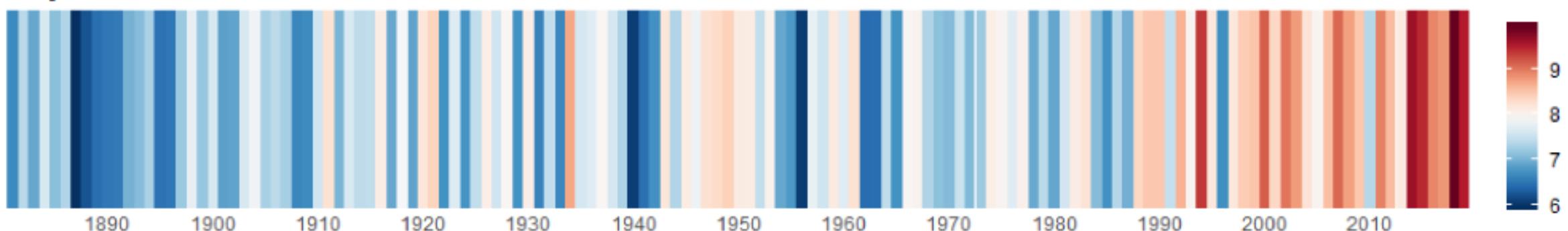


# Climate change in our region

Josef

**Bayern 1881-2019**

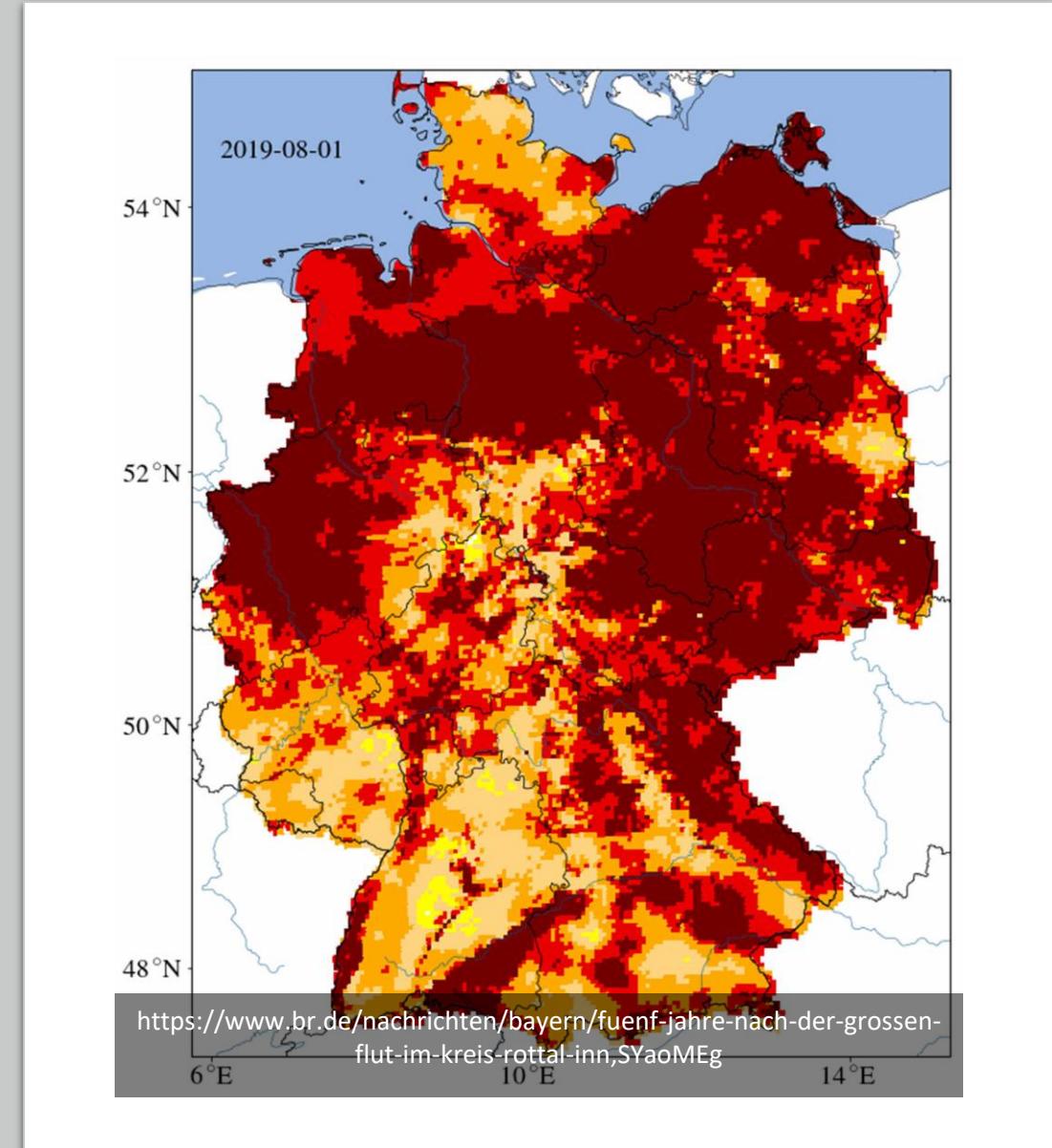


Daten: DWD Climate Data Center (CDC)

[https://www.lfu.bayern.de/pic/wasser\\_klima/2479661\\_gr.png](https://www.lfu.bayern.de/pic/wasser_klima/2479661_gr.png)

# Drought

- hot and dry years are becoming more common in Germany (e. g. 2018, 2019)
  - enormous losses of crops
  - increased risk of bushfires
  - growth of bark beetle populations
  - 6 million missing trees in German forests (only caused by 2018 and 2019)



# Extreme weather conditions

higher temperature  
→ the atmosphere can save more steam  
→ fewer, but more extreme rainfalls and thunderstorms

June 1<sup>st</sup>, 2016: utterly heavy rainfalls in Simbach a. Inn and Triftern

→ 7 deaths  
→ financial damage of 1,250,000,000 €

# Extreme weather conditions



Bundesstraße (Federal Route) 12 in Simbach a. Inn

<https://www.br.de/nachrichten/bayern/fuenf-jahre-nach-der-grossen-flut-im-kreis-rottal-inn,SYaoMEg>



Main street in Simbach a. Inn

<https://www.br.de/nachrichten/bayern/fuenf-jahre-nach-der-grossen-flut-im-kreis-rottal-inn,SYaoMEg>

# Winter

- global warming → fewer days with snowfall in our region
  - no more skiing
  - no more ice skating
  - riding one's sledge is almost impossible



<https://www.wurmannsquick.de/freizeit-vereine/freizeit/skilift>

# The bark beetle

- some bark beetles (like the European spruce bark beetle) live in alive trees → they damage those trees and make them die
  - given a temperature of more than 16.5°C, they expand more rapidly → more trees are attacked
- forests must be harvested to prevent a further spread
- heavy losses (also financially)



[https://www.fieldsites.se/2019/05/03/en-GB/the-european-spruce-bark-beetle-\(ips-typographus\),-an-increasing-problem-in-southern-sweden-42402030](https://www.fieldsites.se/2019/05/03/en-GB/the-european-spruce-bark-beetle-(ips-typographus),-an-increasing-problem-in-southern-sweden-42402030)

# Animals

- increase of temperature  
→ living environments  
of many species move  
northwards
- impacts
  - fish
  - birds
  - ...



<https://klexikon.zum.de/wiki/Forelle>

brown trout

# Sources

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- <https://www.zdf.de/nachrichten/panorama/umwelt-duerre-deutschland-100.html> (20.01.2022)
- <https://www.stmelf.bayern.de/wald/waldschutz/borkenkaefer/> (20.01.2022)
- <https://www.rnd.de/wissen/borkenkaefer-befall-wieso-ist-er-so-schadlich-fur-unsere-walder-NHNLDCH5VVGRNENNPTPYZS5H5E.html> (20.01.2022)
- <https://www.wetteronline.de/wetternews/klimawandel-in-deutschland-winter-immer-weniger-schnee-2020-11-22-vl> (01.02.2022)
- <https://www.br.de/klimawandel/klimawandel-bayern-folgen-erwaermung-100.html> (12.02.2022)
- <https://lfbayern.de/schuetzen/der-klimawandel-und-die-folgen-auf-unsere-heimischen-gewaesser-2573.html> (12.02.2022)
- <https://www.br.de/nachrichten/bayern/fuenf-jahre-nach-der-grossen-flut-im-kreis-rottal-inn,SYaoMEg> (15.02.2022)
- <https://www.lbv.de/naturschutz/standpunkte/klimawandel-klimaschutz/klimawandel-voegel/> (16.02.2022)