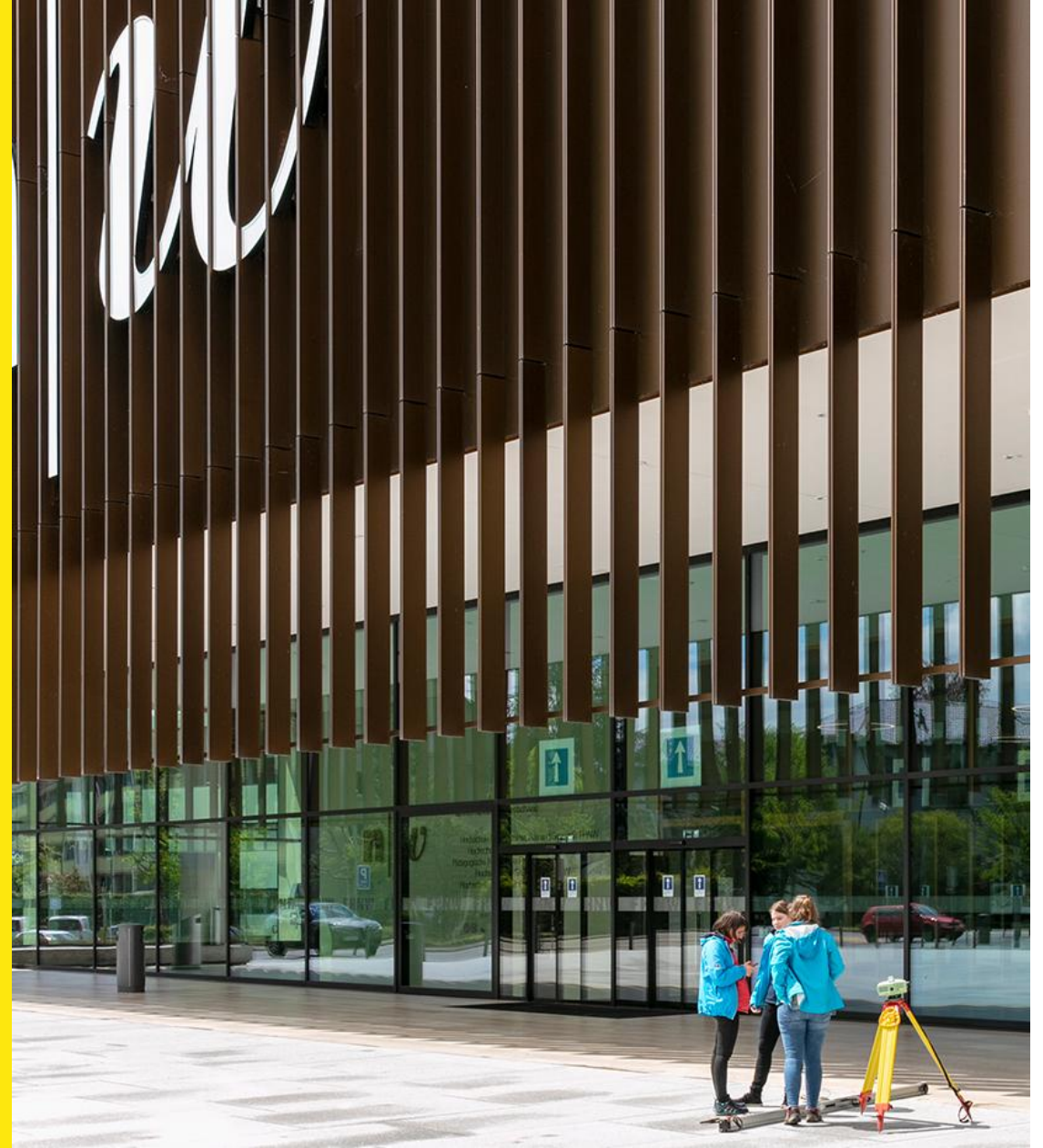


Geoharvester.ch

**A search engine prototype for
Swiss geoservices.**

Friedrich Striewski
Wiss. Mitarbeiter & Software Engineer
September 6th, 2023



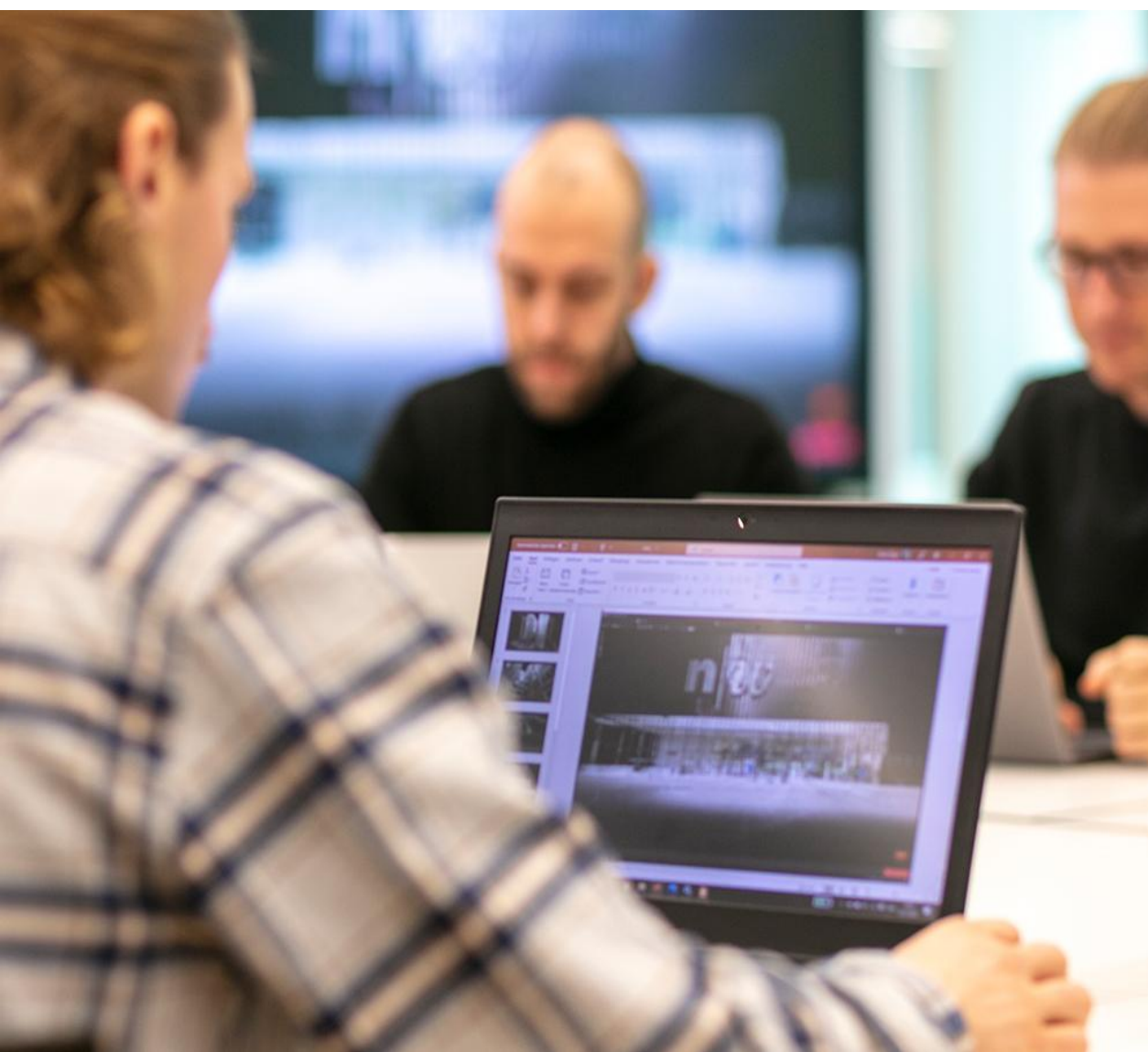


Problem statement

We are missing a single access point for Swiss geoservices.

Quality of metadata and level of documentation varies greatly.

Indexing services and keeping them up-to-date is a time-consuming effort.



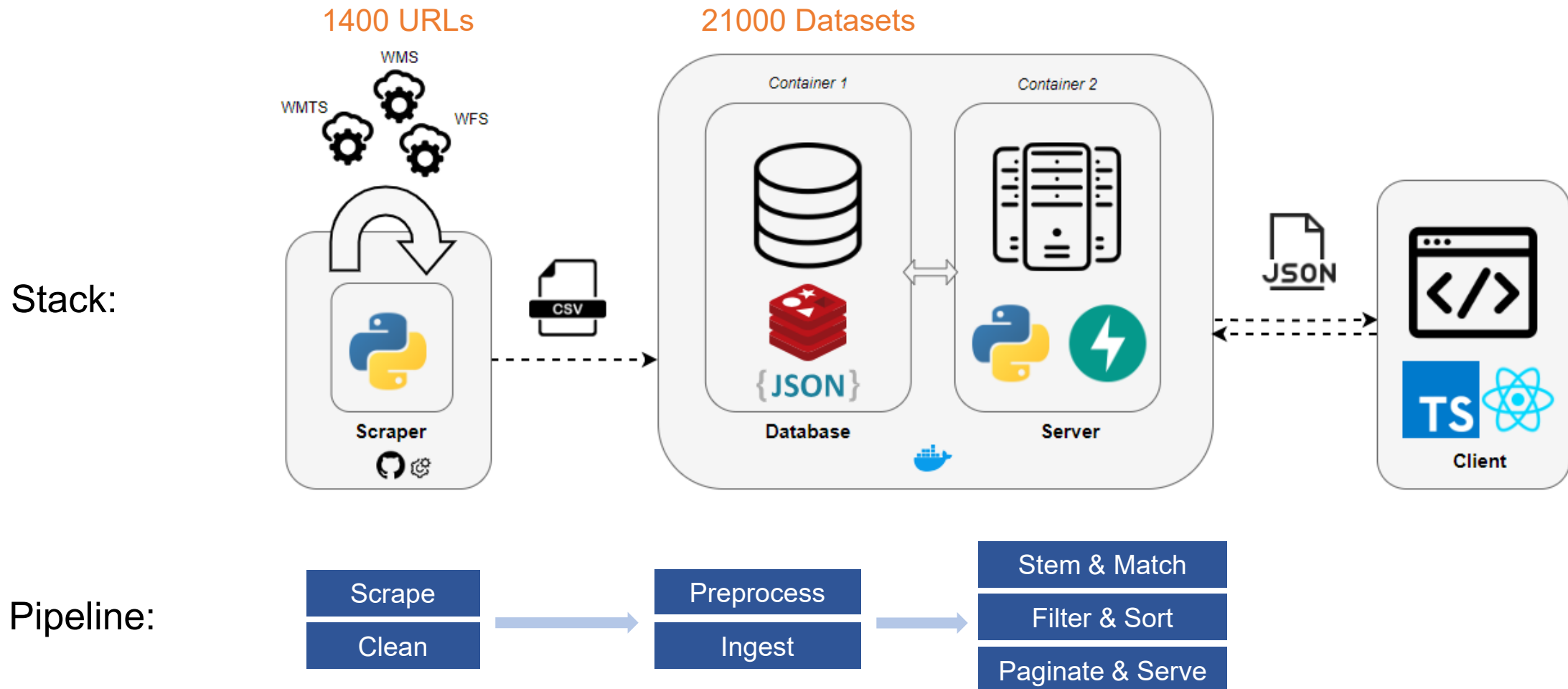
Project Goals

- Build a **single access point** for finding geoservices (portal and api)
- Regular, **automatic updates** (scraper and automated processing workflow)
- Use NLP methods and **fuzzy search** to discover data
- Support **filtering** and **sorting** to narrow down to relevant results
- Rate metadata quality with a **score**



Webservice suchen...

Components & Processing pipeline



Team

FHNW

- Prof. Pia Bereuter (*project lead*)
- Fiona Tiefenbacher (*UI/UX*)
- Mina Karimi (*NLP*)
- Elia Ferrari (*NLP*)
- Friedrich Striewski (*software development*)

Swisstopo

- David Oesch (*idea, project coordinator*)
- Pasquale Di Donato (*project coordinator*)



www.geoharvester.ch

The Missing Maps of the US Far Right Media's Coverage of Climate Change

Carolyn Fish

Assistant Professor

University of Oregon

Department of Geography

CartoFish Lab

@cartofish



How Does the US Right Wing
Media Use Maps to
Communicate about
Change?



Map Producers

National Geographic

The New York Times

NOAA

NASA

National Climate Assessment

Peer Reviewed

Climate Central

Minnesota Public Radio

Independent Cartographer

Other Government

not listed

Climate Reanalyzer

Yale Climate Change Communication

Notre Dame Global Adaptation Institute

Washington Post

National Audubon Society

IPCC

Texas Tribune

Final Publication Outlets

National Geographic Magazine

The New York Times

Pew Research Center

Minnesota Public Radio

Texas Climate News

WNPR

Vox

National Geographic Website

The Washington Post

Fast Company

PBS

Mashable

NPR

Climate Central

Minnesota Star Tribune

Mic

Wired

Huffpost

The Atlantic

Texas Observer

Salon

Mother Jones

LA Times

Saint Louis Public Radio

Smithsonian

USA Today

Grist

StreetsBlogUSA

Conversation

Business Insider

Baltimore Magazine

Time

Texas Tribune

241 Maps

CARTOGRAPHY AND GEOGRAPHIC INFORMATION SCIENCE
2020, VOL. 47, NO. 6, 492-507
<https://doi.org/10.1080/15230406.2020.1774421>



Taylor & Francis
Taylor & Francis Group

OPEN ACCESS

Check for updates

ARTICLE

Cartographic content analysis of compelling climate change communication

Carolyn S. Fish

Department of Geography, University of Oregon, Eugene, OR, USA

ABSTRACT

Maps are a key way to communicate climate change. The goal of these maps is to make climate change relatable, tangible, and understandable. However, little research has assessed the content of these maps and the aspects of these maps which attract readers, reduce complexity, and make climate change tangible. One way to evaluate maps of climate change is through the concept of *vividness*, a term from the communication literature. This article examines the content and vividness of maps of climate change to answer the following: which media organizations publish these maps? What is the design and content of these maps? Did these maps convey climate change vividly? Using content analysis and multidimensional scaling (nMDS) this research showed that producers of climate change maps are often not the publishers of this same content. These maps

ARTICLE HISTORY

Received 9 March 2020
Accepted 22 May 2020

KEYWORDS

Map design; climate change communication; media maps; cartography; content analysis; vividness; data journalism

Sources

Classical Liberal/Neoconservative

The Weekly Standard

National Review

The Washington Times

The Daily Signal

The Washington Free Beacon

Party Establishment ("Mainstream" Republican Media)

Fox News/Nation

The Washington Examiner

The Wall Street Journal (Opinion)

Drudge Report

"Pop-Right"

The Daily Wire

The Blaze

"Alt-Right"/Paleoconservative/Tea Party

American Thinker

Red State

Breitbart

The Federalist

The Daily Caller

The Gateway Pundit

InfoWars

NewsMax

The American Spectator

B	C	D	E	F	G	H	I	
Code	Article Name	Numb	URL Article	URL intermediary article	URL Map	Source of Article	Source of the map or data	
	Name of the article in which the map(s) are featured	Number of maps within the article					is the map from somewhere else? I.e. is is from NASA but republish	
30003	The disastrous Australia wildfires are man-caused b	1	http://tmp.america	https://townhall.com/tipsh	https://abcnev	American Thinker	ABC News (map of Australia wildfires)	
30004	Media Meltdown over Trump's Hurricane Prediction	1	americanthinker.c	https://e-news.us/hurrican	https://www.e	American Thinker	E-News UK, NOAA data for Hurricane Dorian	
30005	Will global warming save the day when it comes to		http://t	http://tmp.america	https://papers.ssrn.com/s	https://poseid	American Thinker	University of Maine (world temperature map)
30006	Where are American's drowned cities?	1	https://www.amer	https://gizmodo.com/watc		American Thinker	Unclear; links to Gizmodo article that discusses NYT maps of NE ci	
30007	What caused the Australian fires? Global warming?	1	https://www.amer			American Thinker	Western Australia Land Authority	
30008	STUDY: The impact of climate change on the world's	1	http://thehill.com/policy/energy-environment/324141-climate-change-will-destroy-the-worlds	https://thehill.com/policy/energy-environment/324141-climate-change-will-destroy-the-worlds		Daily Wire	University of Washington	

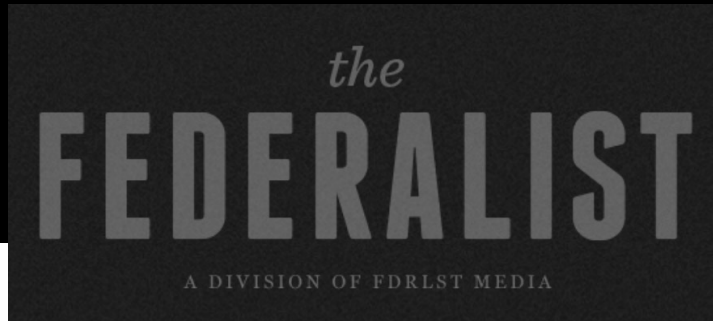
Conservative media doesn't
make maps and rarely even
uses maps when they talk
about climate change

Only 29 maps

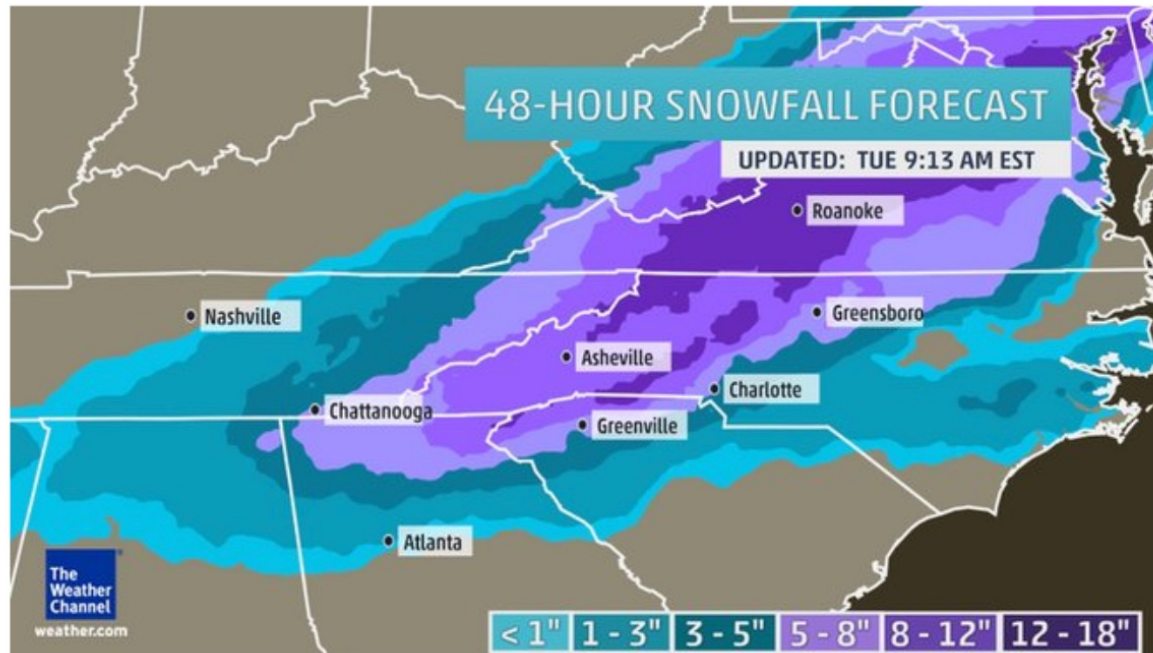
18 media sources

8 years

Weather? Climate?



But wait, there's more!

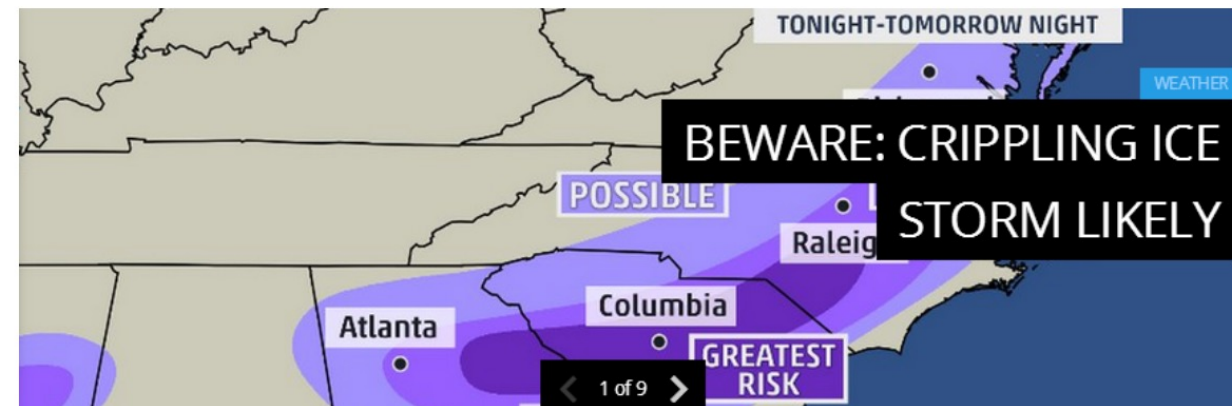


Senate Democrats Schedule Global Warming Hearing Right Before Expected D.C. Blizzard

But FEBRUARY 11, 2014 By Sean Davis

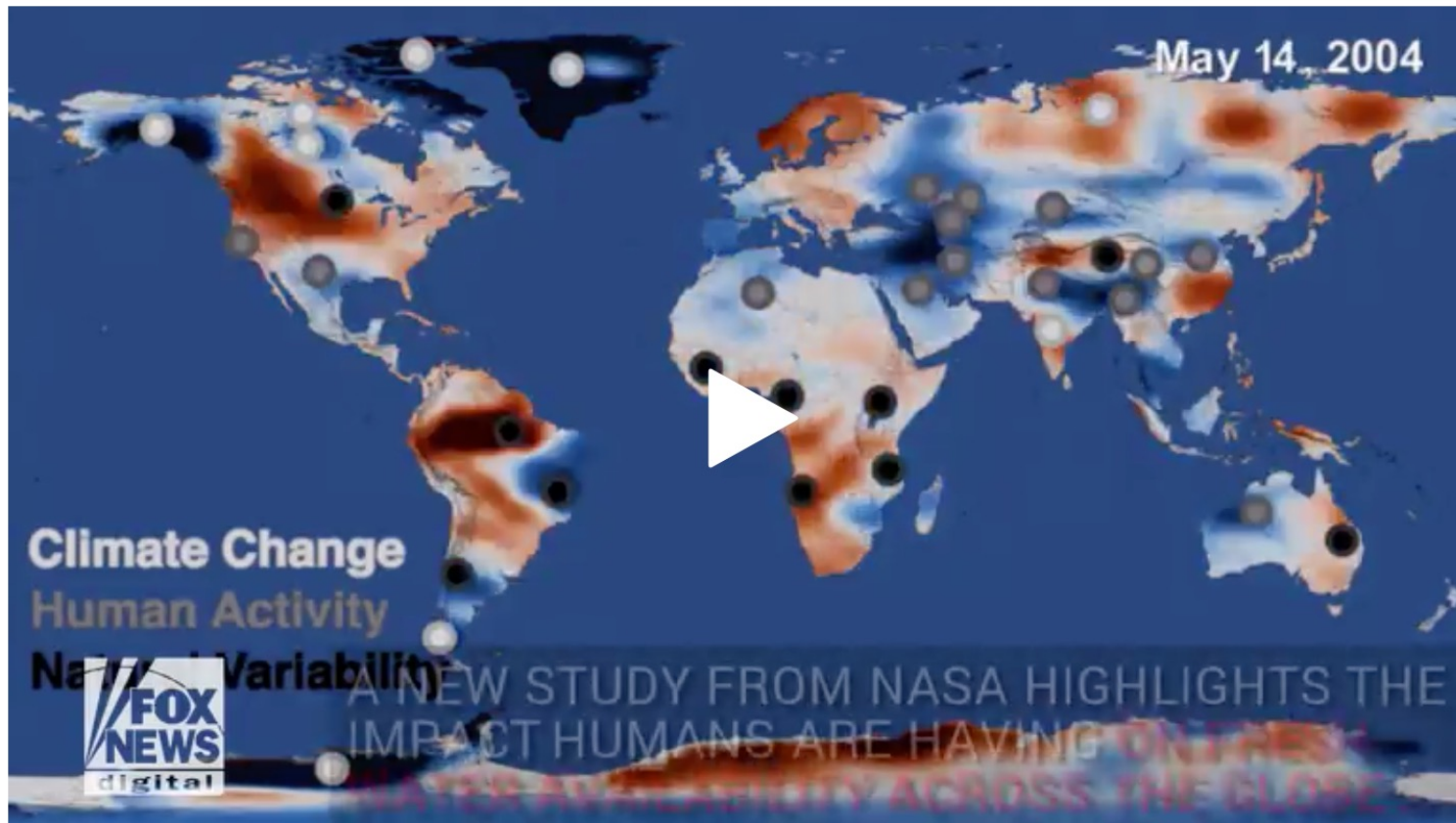
normal people with real jobs be experiencing while lawmakers talk about the dangers of being ill-prepared for the “extreme” effects of global warming? In other words, how susceptible to global warming hysteria will millions of Americans be on February 12? Back to you,

[Weather.com:](#)



Stunning NASA study shows humans are responsible for major changes to Earth's water availability

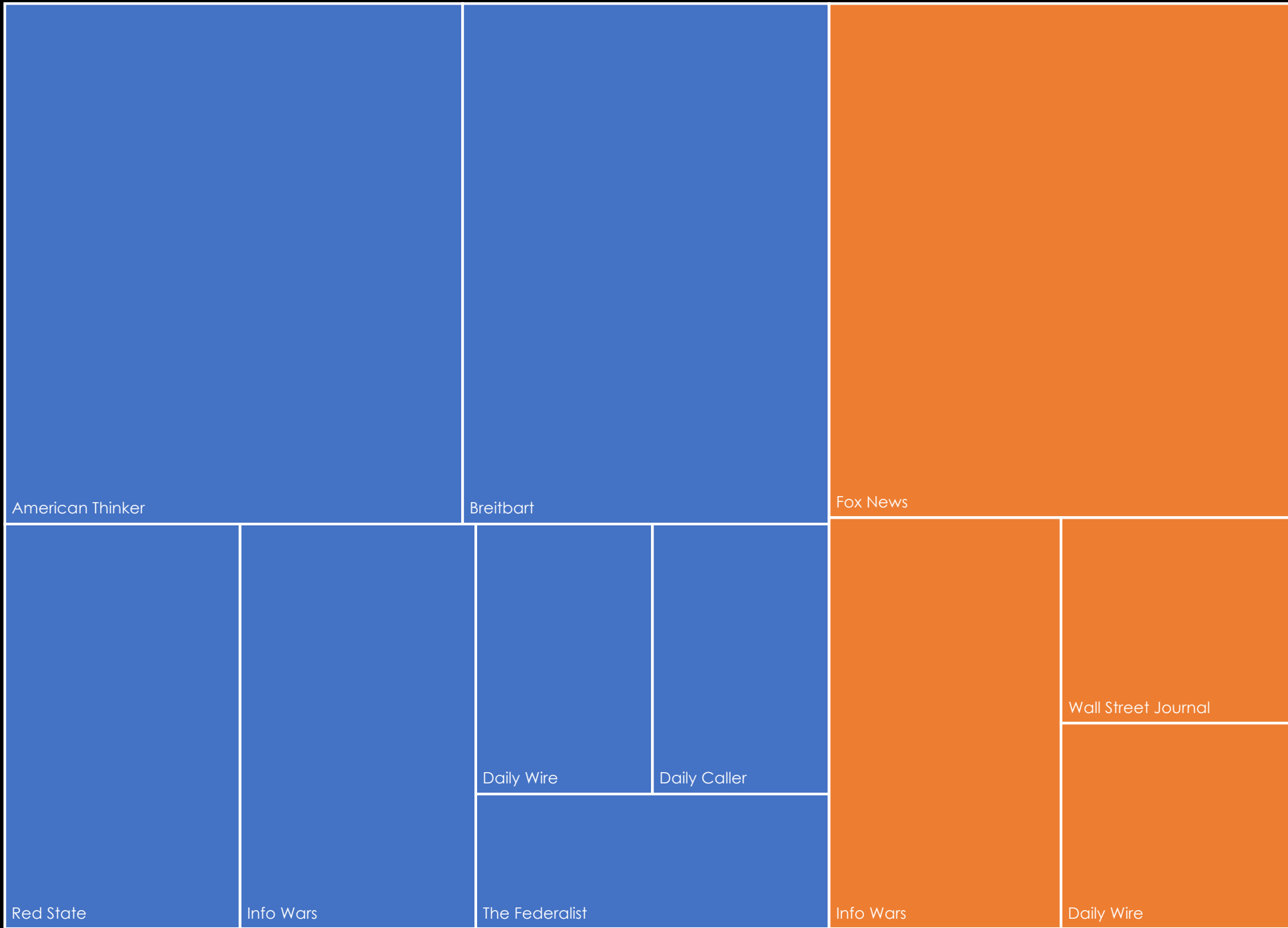
By Chris Ciaccia, | Fox News



Fox News
reported
accurately
with
maps?!?!

NASA study: Humans responsible for lack of fresh water

Opinion



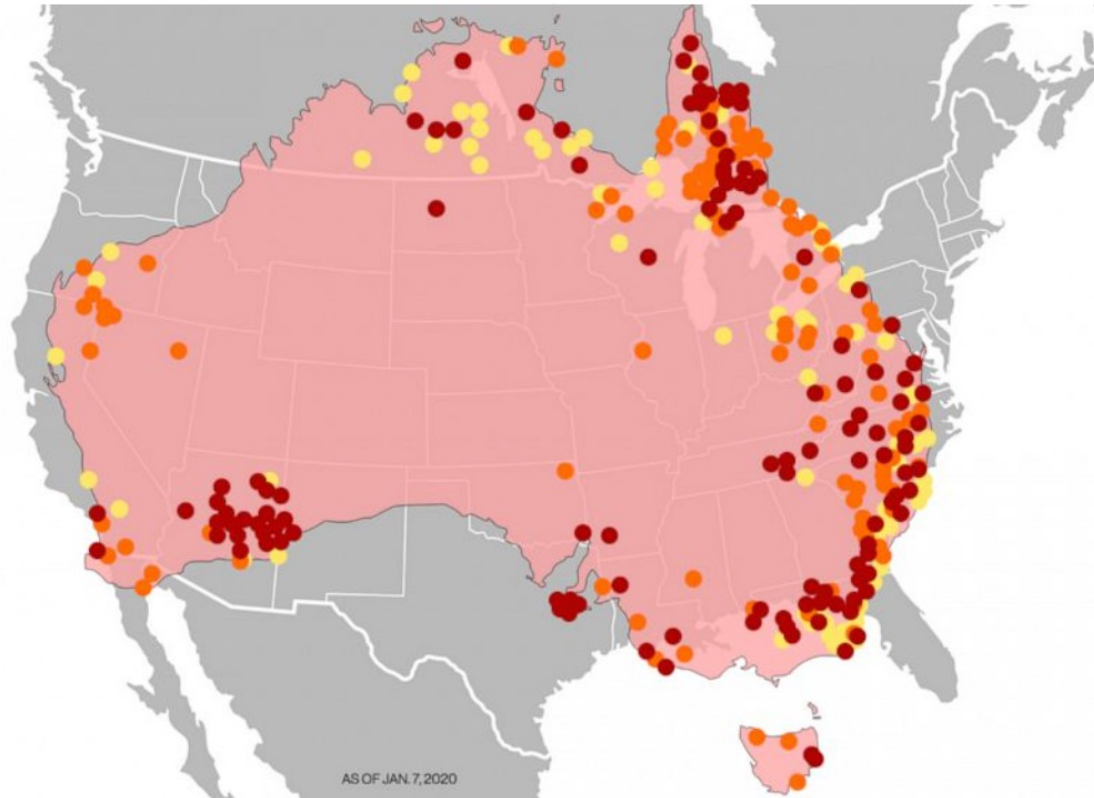
Not Opinion

We only classified two maps as “misleading”



Sometimes they aren't wrong...

A superimposed map of Australia over the United States shows the hot spots around the country as the massive wildfires have spread Down Under.



 ABC NEWS

This map details the hot spots in Australia superimposed over a map of the U.S. The dot... [Read More](#)

Thank you

Carolyn Fish

cfish11@uoregon.edu

@cartofish



O

Maps aren't even about climate change

From *The American Thinker*



American Thinker

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April 20, 2016

Where are America's Drowned Cities?

By Robert Zubrin

GIZMODO

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Watch Manhattan's Boundaries Expand Over 250 Years

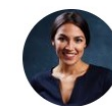
By Kelsey Campbell-Dollaghan

5/09/13 11:00AM | [Comments \(39\)](#)



AOC Blames the California Wildfires on "Climate Change," but the Internet Isn't Having It

By Brandon Morse | 12:15 PM on October 28, 2019



Alexandria Ocasio-Cortez 
@AOC · [Follow](#)



This is what climate change looks like.

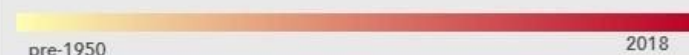
The GOP like to mock scientific warnings about climate change as exaggeration. But just look around: it's already starting.

We have 10 years to cut carbon emissions in half. If we don't, scenes like this can get much worse.

[#GreenNewDeal](#)

A History Of California Wildfires

See the perimeters of more than 100 years of California wildfires recorded by Cal Fire and the U.S. Geological Survey.

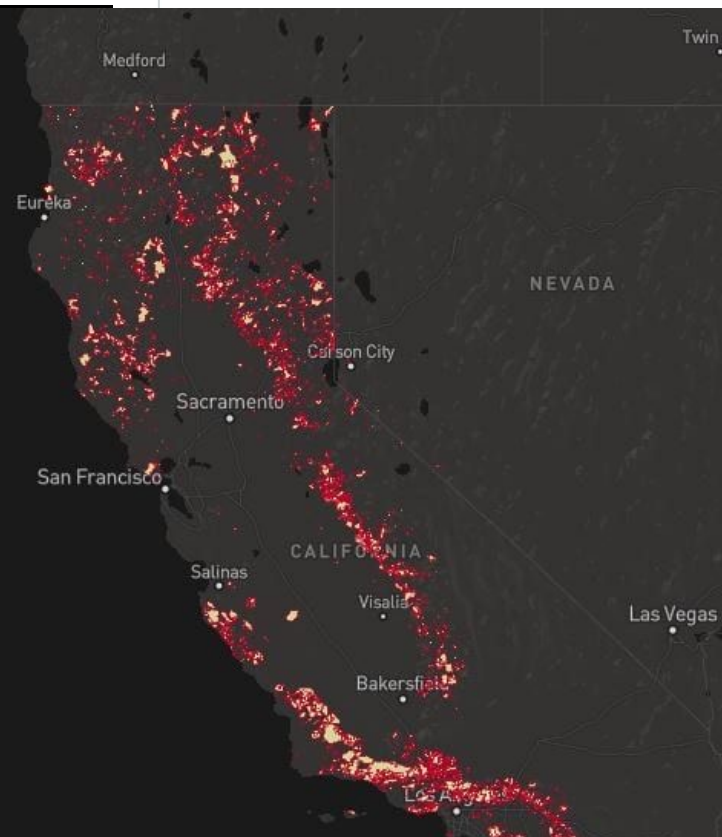


Year: Pre-1950



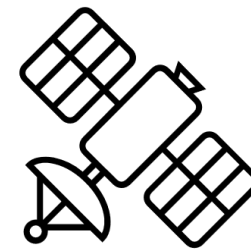
[Show all fires](#) [More about the data](#)

Data: Perimeters of wildfires in California from 1878 to early 2018 (Cal Fire), perimeters of wildfires in California in 2018 (USGS). Production by Emily Zentner and Chris Hagan



to California right now. The forces
g





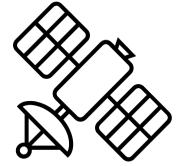
Satellitendaten in der Landwirtschaft

GeoBeer, 06.09.2023 Solothurn

Tiziana Speckert

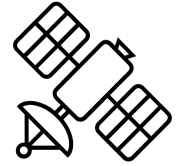


Trends



- Hohe Nachfrage an Satellitendaten und Satellitendatenprodukte in den letzten Jahren
- Technologische Weiterentwicklung bei der Nutzung von Satellitendaten
- Weiterentwicklung der Satelliten

Anwendungen

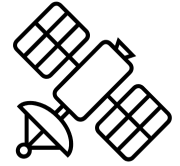


- Feld-Monitoring:
 - Wachstum der Pflanzen
 - Bestimmung der Feldkultur/ Feldgrenzen
 - Einfluss von Umweltereignissen
 - Bewirtschaftung
- Schadenabschätzung
- Modellierung/ Berechnung von Ernteerträgen
- Indexversicherungen



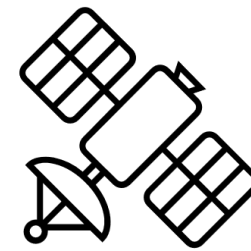
Quelle: European Space Agency – ESA produced from ESA remote sensing data, image processed by Schweizer Hagel, 2020 (<https://www.hagel.ch/de/medien/die-schweizer-hagel-startet-pilotphase-mit-satellitendaten-zur-verbesserung-des-risikomanagements/>, Zugriff: 03.09.2023).

Challenges



- Verständnis der Daten
- Räumliche & zeitliche Auflösung
- Verfügbarkeit der Daten
- Produktdesign
- Einfluss zusätzlicher Faktoren
- Differenz zwischen den erhofften Informationen aus den Daten und der tatsächlichen Anwendung
- Projekt EO4I: <https://earsc-portal.eu/display/EO4I/The+Project>





Vielen Dank für die
Aufmerksamkeit!

