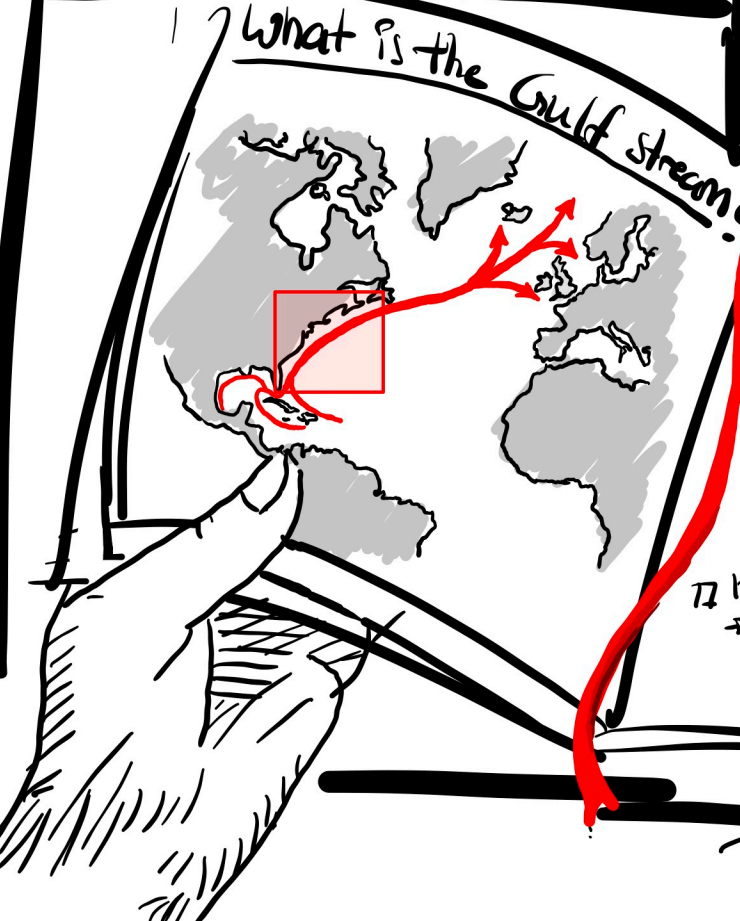
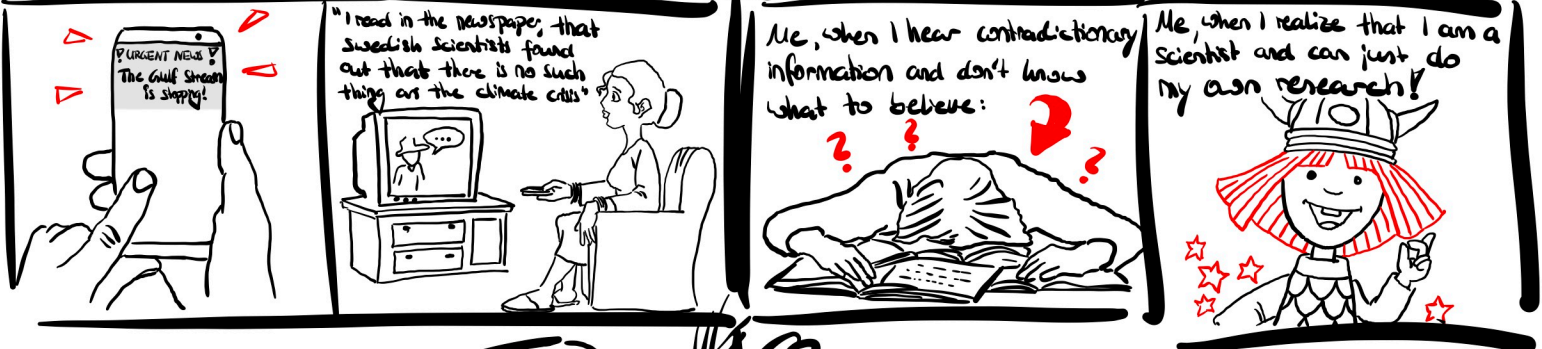


IS THE GULFSTREAM ACTUALLY STOPPING??

A SCIENCE COMIC* BY CHARLOTTE GEIGER

*Inspired by the comic "Asterix + Obelix" and the movie "Wikie und die starken Männer"



- caused by large system of circular currents and powerful winds
- brings warm water from the Gulf of Mexico into Atlantic ocean and on to Europe.
- characteristics of current water:
 - much warmer & saltier than surrounding waters
- How to determine change of current:
 - Volume & Heat flux transport of current.
 - Gulf stream current would change if current slows down.

⊗ To read more about it please read the article:
 O'Hare, G. Updating our understanding of climate change in the North Atlantic: the role of global warming and the Gulf stream. Geography

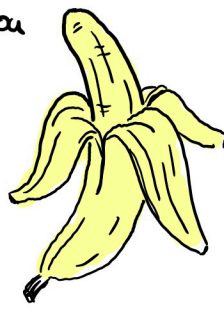
After a 15 day ocean crossing our ship finally reaches the Grand Bahamas. We chose this location as starting point, so that we can recharge our own human batteries by chilling at the beach...



... and for boarding food supplies for our long expedition. And the best energy source is of course: The Banana!



Sidenote: Did you know that the banana contains 105 calories and increase happiness and have therefore superpowers? I love bananas so much, that we only got bananas as proviant :)



After a great recharge on the Grand Bahamas, we start our expedition. Great conditions ahead of us!

Our Trip - The measurement area

- Start: Grand Bahamas
- End: Wood's Hole, US
- 7 transects in total
- Total time: 18 days

Grand Bahamas

Why did we choose transects?

- Important to derive volume transport & heat flux
- good to compare with existing literature (**)

** Along-Stream Evolution of Gulf Stream transport by J. Heinrich

2. Measurement equipment

A, On-the-way-measurement

B, CTD's

- measures temp + salinity over 1000m depth
- several individual times per transect (black dots on map)

C, Drifters

- Fun fact: look like UFO's
- measure surface temp while floating around

So how does the equipment look in action?

A, On-the-way data

0m

-2m

C, Drifters

B, CTD's

