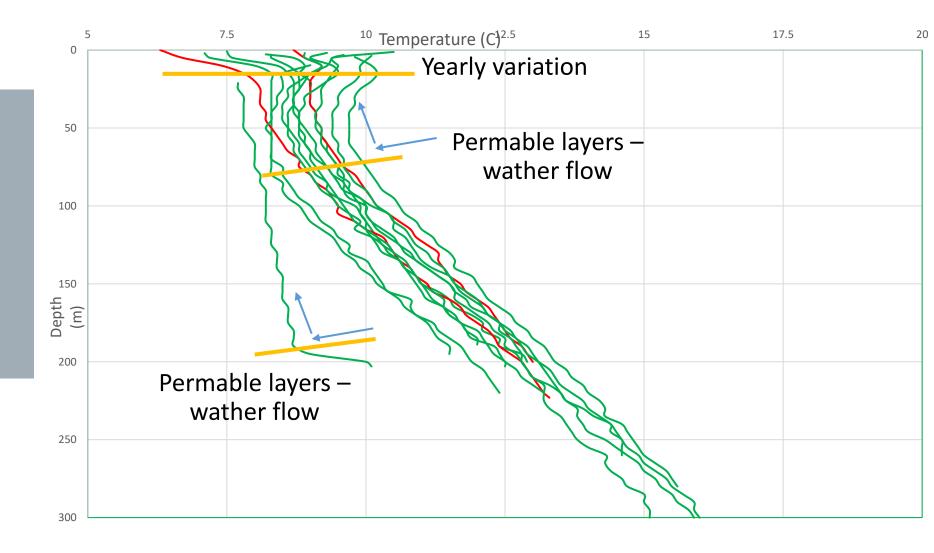




Measurements

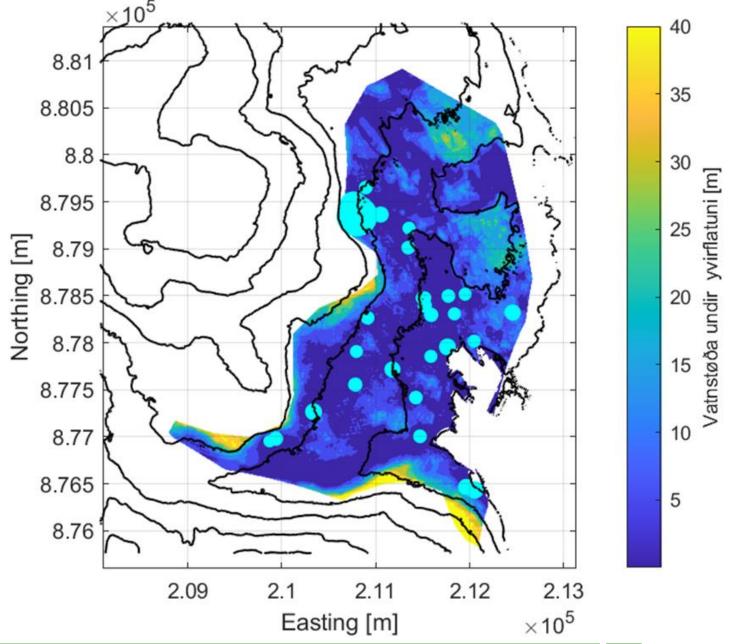
- Temperature
 measurement each 5 m
 down through the well
- 2. Groundwater flow
- 3. Groundwater table
- Calculate geothermal gradient





Measurements

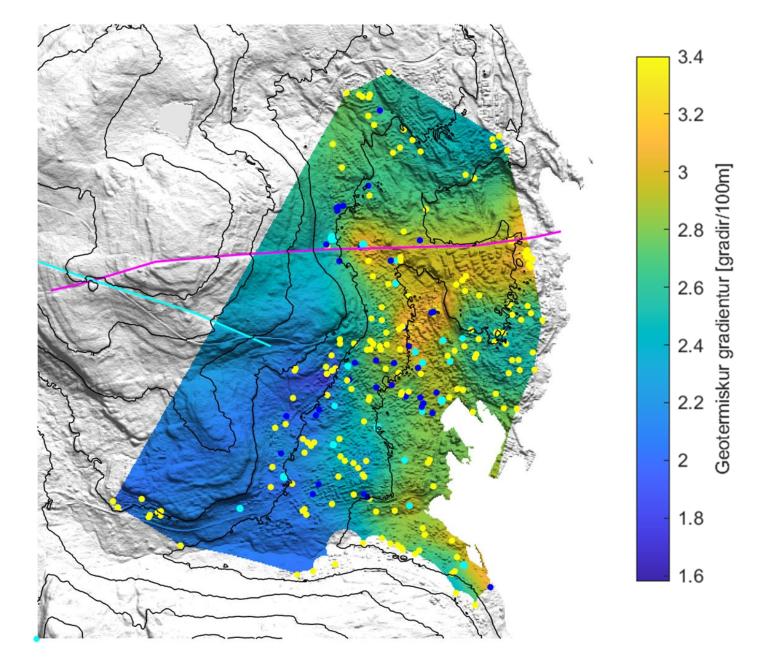
- Temperature
 measurement each 5 m
 down through the well
- Groundwater flow
- 3. Groundwater table
- Calculate geotherma gradient



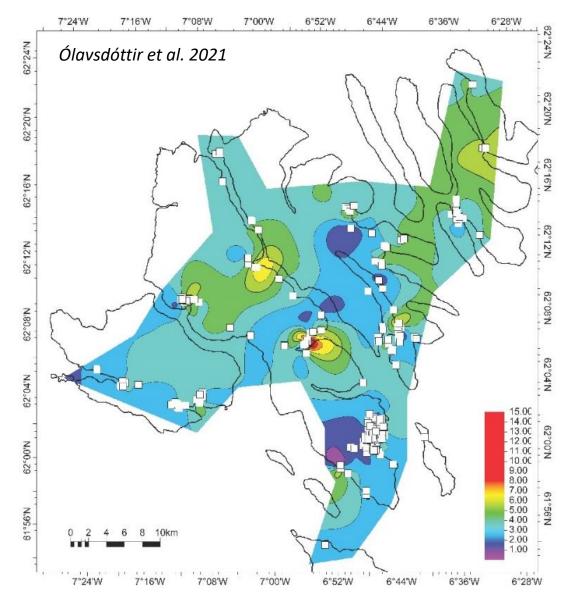


Measurements

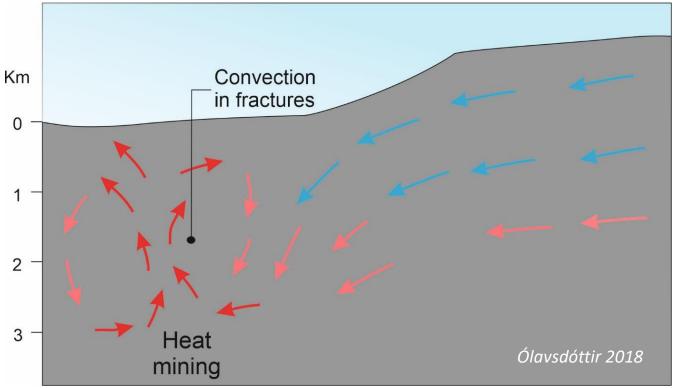
- Temperature
 measurement each 5 m
 down through the well
- Groundwater flow
- Groundwater table
- 4. Calculate geothermal gradient







- Geothermal gradient
- Heat mining



Geothemal map in the Faroe Island constructed from 500 wells. Calculated from the mean surface temperature and the bottom hole temperature



Further work to understand the un-answered questions

- 9 years 27°C warm water 16
 m³/h
- Meteoric water
- Aluminum, boron, cyanide, fluorine and arsen a bit hit
- pH virðið to high
- Max. temperature of water = 38°C
- Age of water = 90% older than 1955 and 10% younger











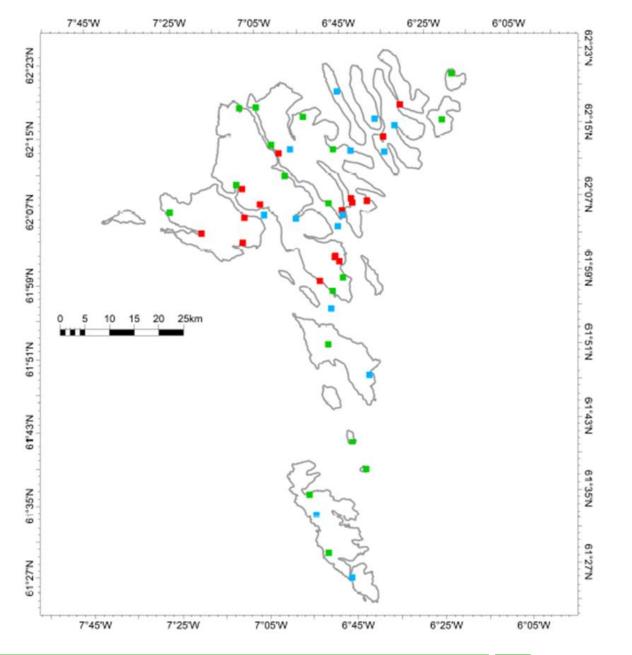


Ongoing Project

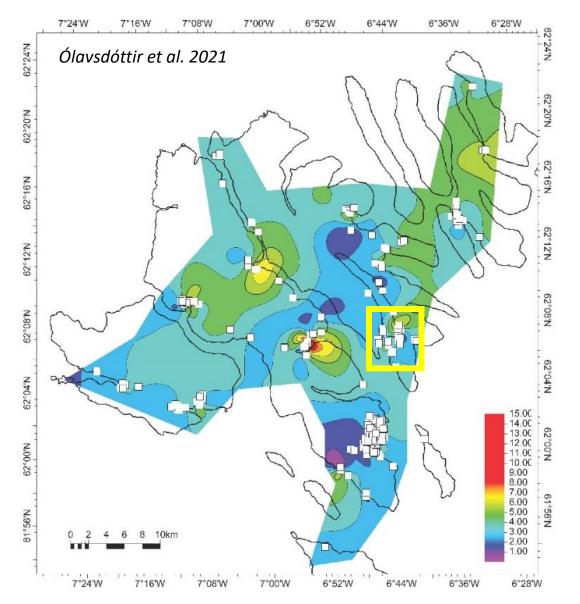
Mapping and interpretation of groundwater geochemistry within the Faroe Islands Basalt Group

Aim of project:

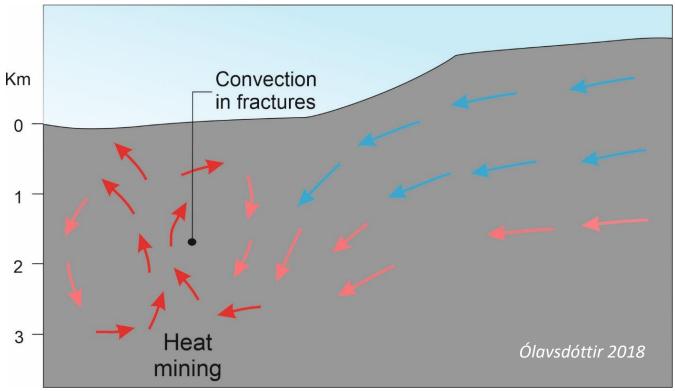
- 1. To initiate a groundwater chemistry map of the groundwater aquifers for better understanding
- 2. For a chosen area pumping tests, measure wells continuously and sample from surface water in the drainage area
- 3. Will become an online public database







- Geothermal gradient
- Heat mining

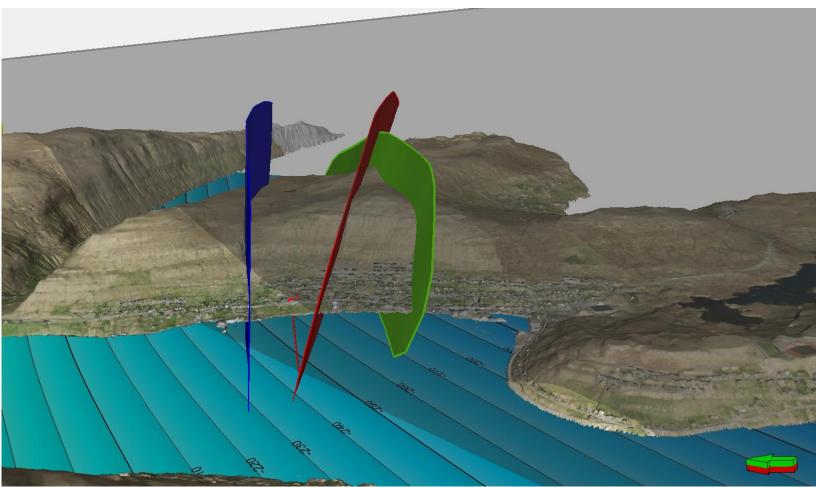


Geothemal map in the Faroe Island constructed from 500 wells. Calculated from the mean temperature and the bottom hole temperature



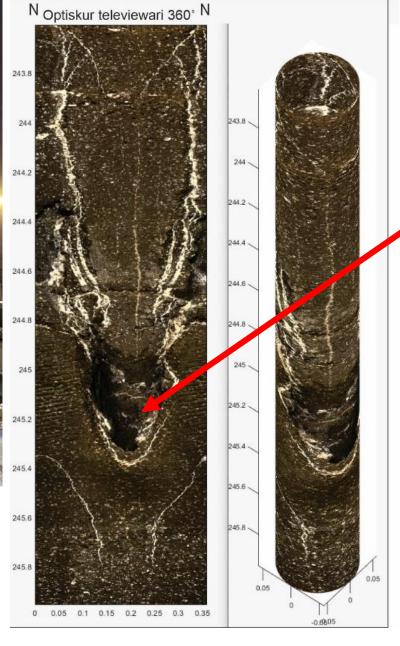
6°46'W 6°45'W 6°43'W 6°42'W 0 0.25 0.5 0.75 1 1.25km 62°08'00"N 62°08'00"N 62°07'30"N 62°07'30"N **GLYVRAR** HULKUR 62°07'00"N SKÁLA-62°07'00"N FJØRÐURIN -6.25 6.00 -5.75 -5.50 -4.75 4.50 4.25 -3.75 -3.50 -3.25 -3.00 -2.75 -2.50 STRENDUR RUNAVÍK 62°06'30"N 62°06'30"N SALTNES 6°42'W 6°46'W 6°45'W 6°44'W 6°43'W

Glyvrar heat mining project









Glyvrar heat mining project

Artecian well: 4.5 m³/h of 24°C





Legistation and data management

- First groundwater law came through the parlament in June 2023
 - Gives the government the rights over the groundwater
- First groundwater licence according to the groundwater law was given last week
- Administration of licence awards and the following supervision
- Management and systemizing data







Draining groundwater

