



The ENSO Field Measurement Campaign Phase III: Water in Our Environment

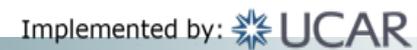
WEBINAR #8- April 12th, 2018
**Greetings from Finland,
Utajärvi comprehensive
school!**



Utajärvi is located in north Finland, about 500 km from capital city of Helsinki.

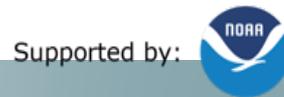


Utajärvi comprehensive school, Utajärvi, Finland





Sanni, Valto, Jenna, Jere, Markus, Jesse, Saku



- Our school consists of preschool, primary school, and lower and upper secondary schools. We have 420 students in total.
- The school provides some after school clubs and some students spend their time at the youth center after school.

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Some kids like to play football on breaks even during the winter time..



.. while others spend their breaks playing or chatting with each other.



Picture: Municipality Utajärvi



Agriculture in Utajärvi

- There are 96 farms, of which 34 are livestock farms. The total number of fields is 4500 hectares, of which grain is 1700 hectares and 2200 hectares of grasslands. There are about 900 hectares of feed barley.
- Other grain types are spring wheat, autumn rye and spring triticale.

Map of groundwater in Utajärvi region

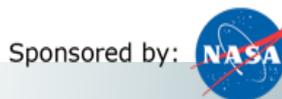
The black lines mean ground water areas.



Is there enough water?

What is the quality of the groundwater?

- There is enough water for everyone because there are only 2800 citizens in Utajärvi.
- The quality of the water is so good it does not need to be purified in any way.



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Rokua has the largest underground water resources in Utajärvi. Rokua has a lot of ridges and therefore there are so many groundwater reserves.

Pictures: Thomas Virta

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Oulujärvi holds a great importance to many people because it offers many spare time activities.





Oulujärvi is a great place for canoeing.



Pictures: Mikko Kiuttu

In winter locals and tourists enjoys ice fishing.

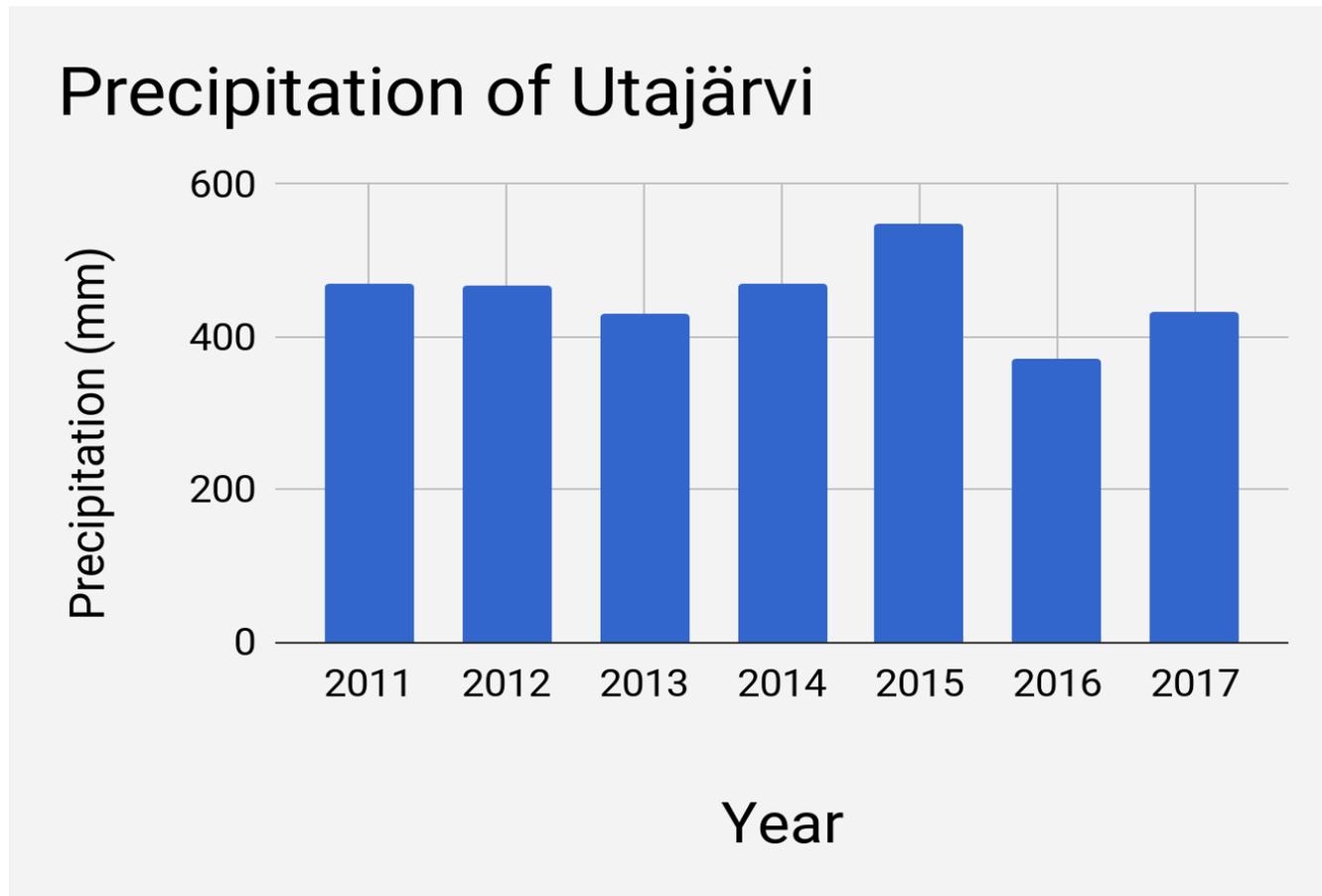


Picture: Mikko Kiuttu



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Precipitation



Precipitation

On average, our school location has received 455 mm of precipitation per year in the past seven years.

In 2017 the month that had the most precipitation was August. There was 94 mm of precipitation.

Droughts

Our precipitation diagram shows, that there really aren't droughts around here.

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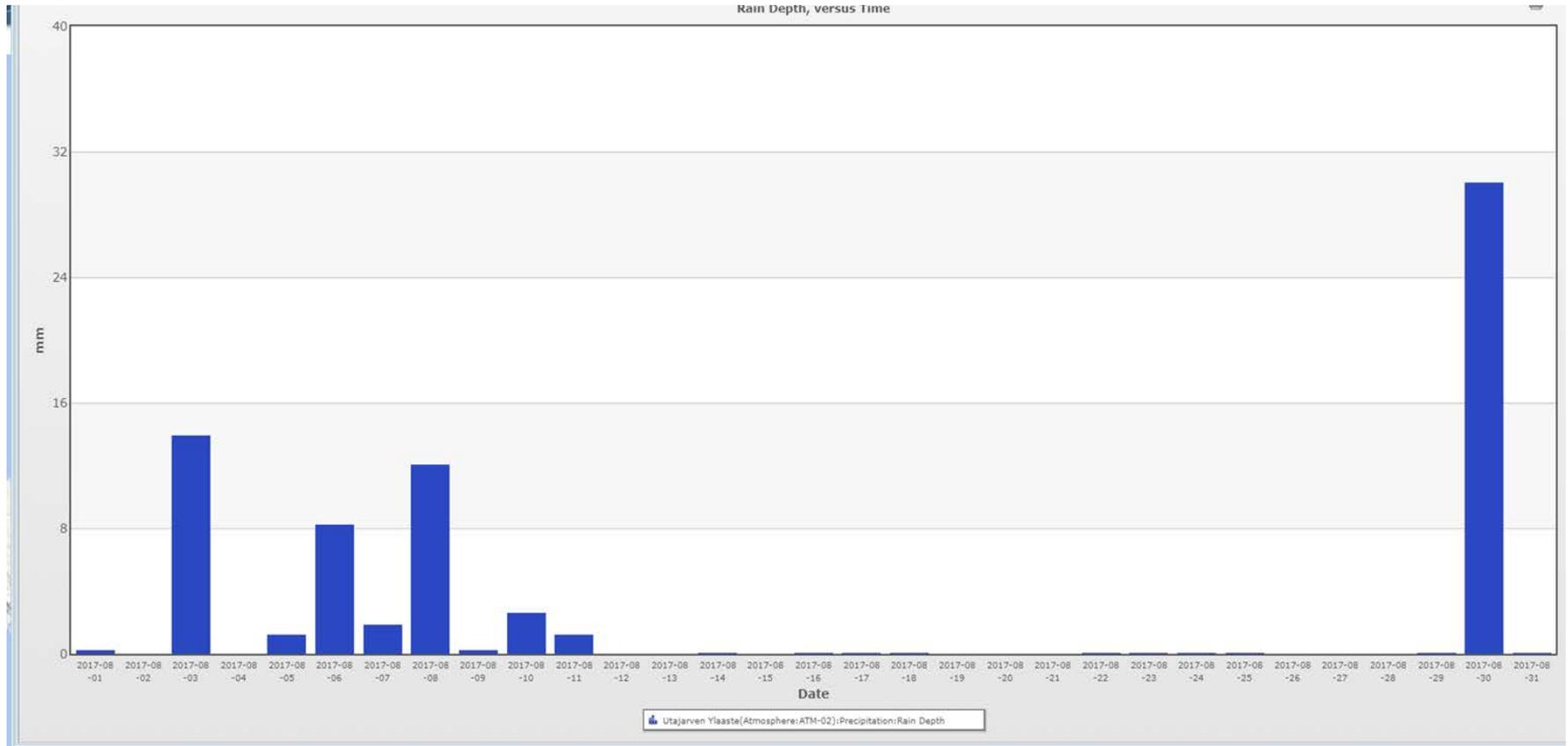


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Precipitation in August 2017



- In August 2017 there was a lot of rain almost every day → the crop didn't have time to dry properly which meant that the grain couldn't be harvested.
- A lot of grain were left in the fields, which caused the farmers to have poor income since it is expensive to dry the crop.

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What kind of harm can snow cause to agriculture?

- It takes a long time for the snow to melt in the spring.
- The fields are wet for a long time, so the farmers aren't able to plant seeds, which causes shorter growing season.



29.3.2018 there was 580 mm of snow.

A picture of a stick which shows how much there is snow.

Floods

We have some flooding in our region. The floods occur because the snow melts and the ground doesn't absorb the water that comes from it. The floods occur in small roads and ditches. Our floods are not that big or severe.

The power plants regulates our rivers and lakes.



Picture: Aila Raappana



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Names of GLOBE Teacher and all students

Teachers:

GLOBE teacher Liisa Virta

English teacher Anna Laitala

Grade 7 students:

Markus Kumpulainen

Mirva Myllyaho

Jere Pirilä

Sanni Pirttikoski

Jenna Proksi

Jesse Kauppinen

Valto Hartikka

Saku Holappa

Thank you for your attention!