Rainfall at San Ġwann Primary School Malta

ST. CLARE COLLEGE

GLOBE Program®

Research Questions

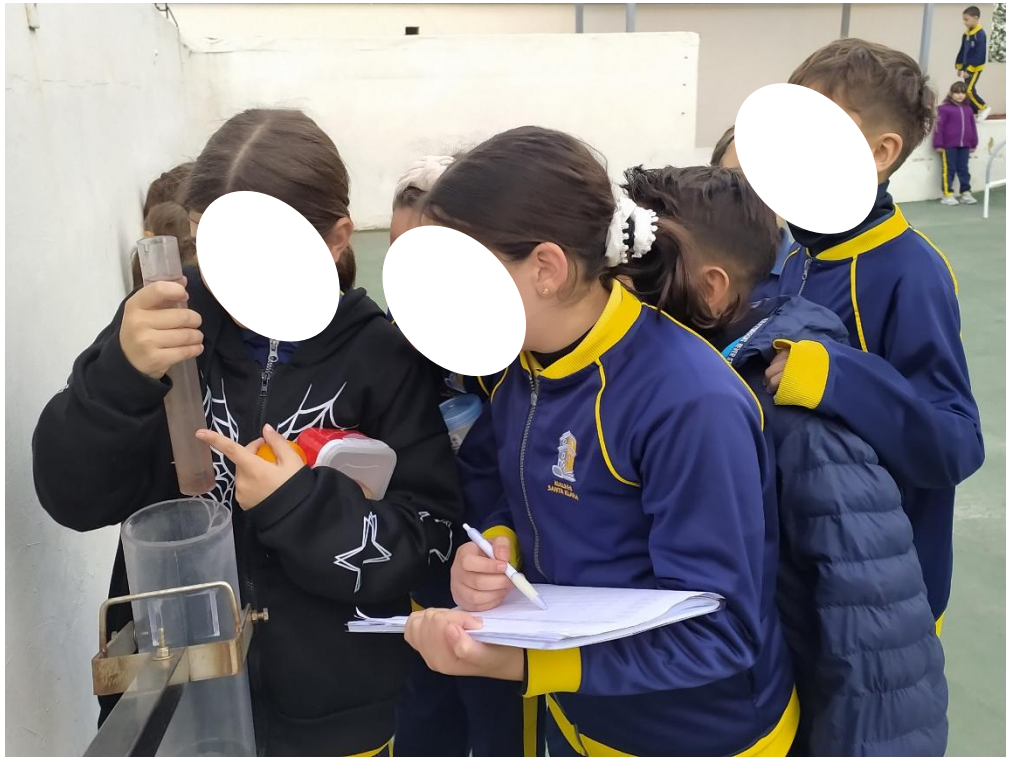
- How was rainfall distributed during this period, and how does it compare to historical averages?
- What potential environmental or socioeconomic impacts might the observed rainfall patterns have on Malta?
- How might climate change influence rainfall trends observed in Malta during this period?

Research Methods

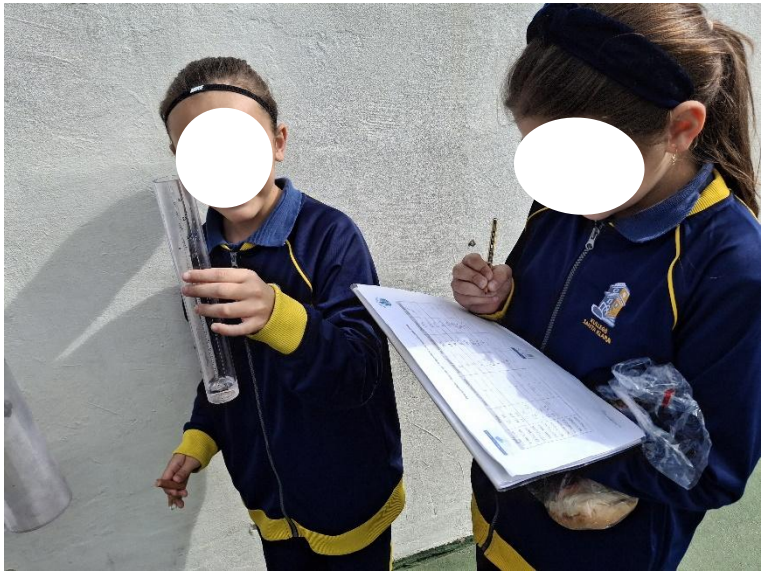
GLOBE protocols were used to collect data on rainfall, including standardized methods for measuring rainfall using a rain gauge. The students visited the study site daily to collect rainfall data. The data was noted using the GLOBE Rainfall Data Sheet.

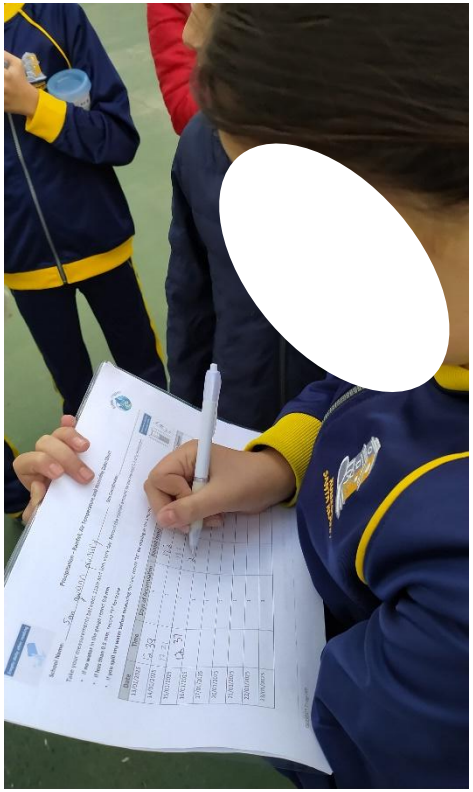
Study site

Collecting Data

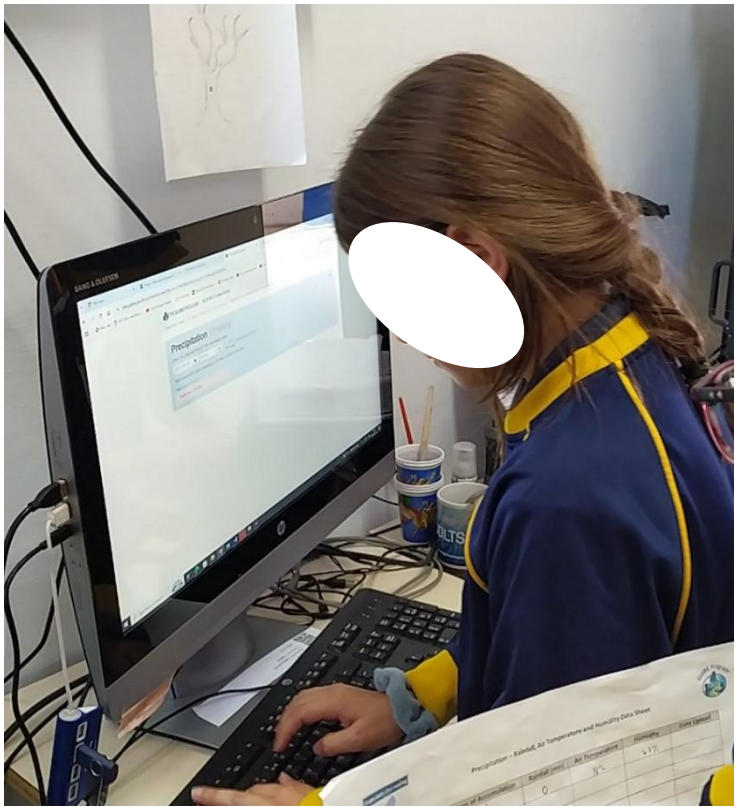


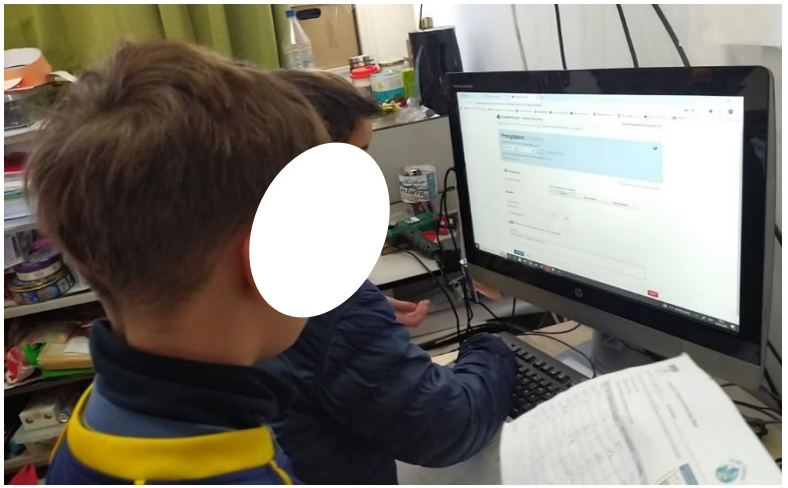
Collecting Data

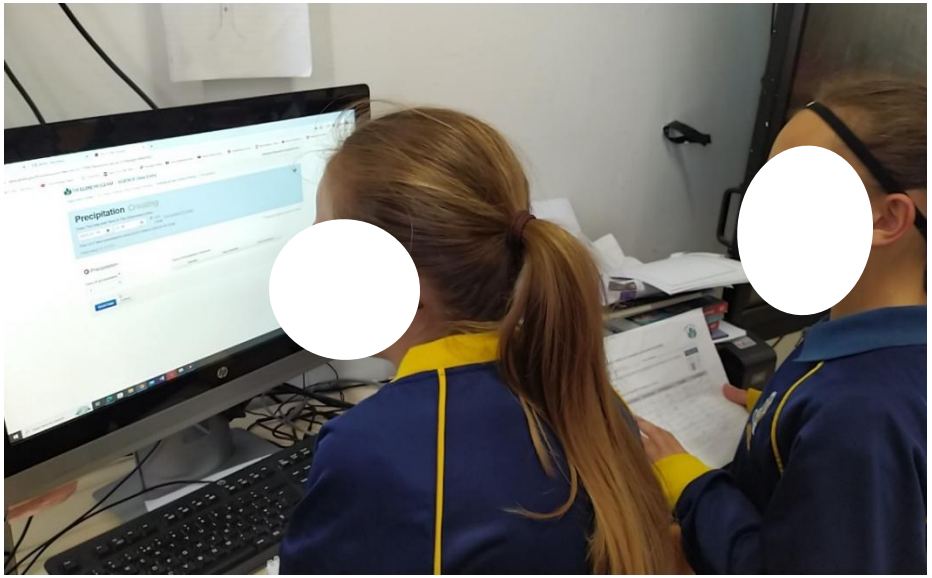




Inputting Data to GLOBE database

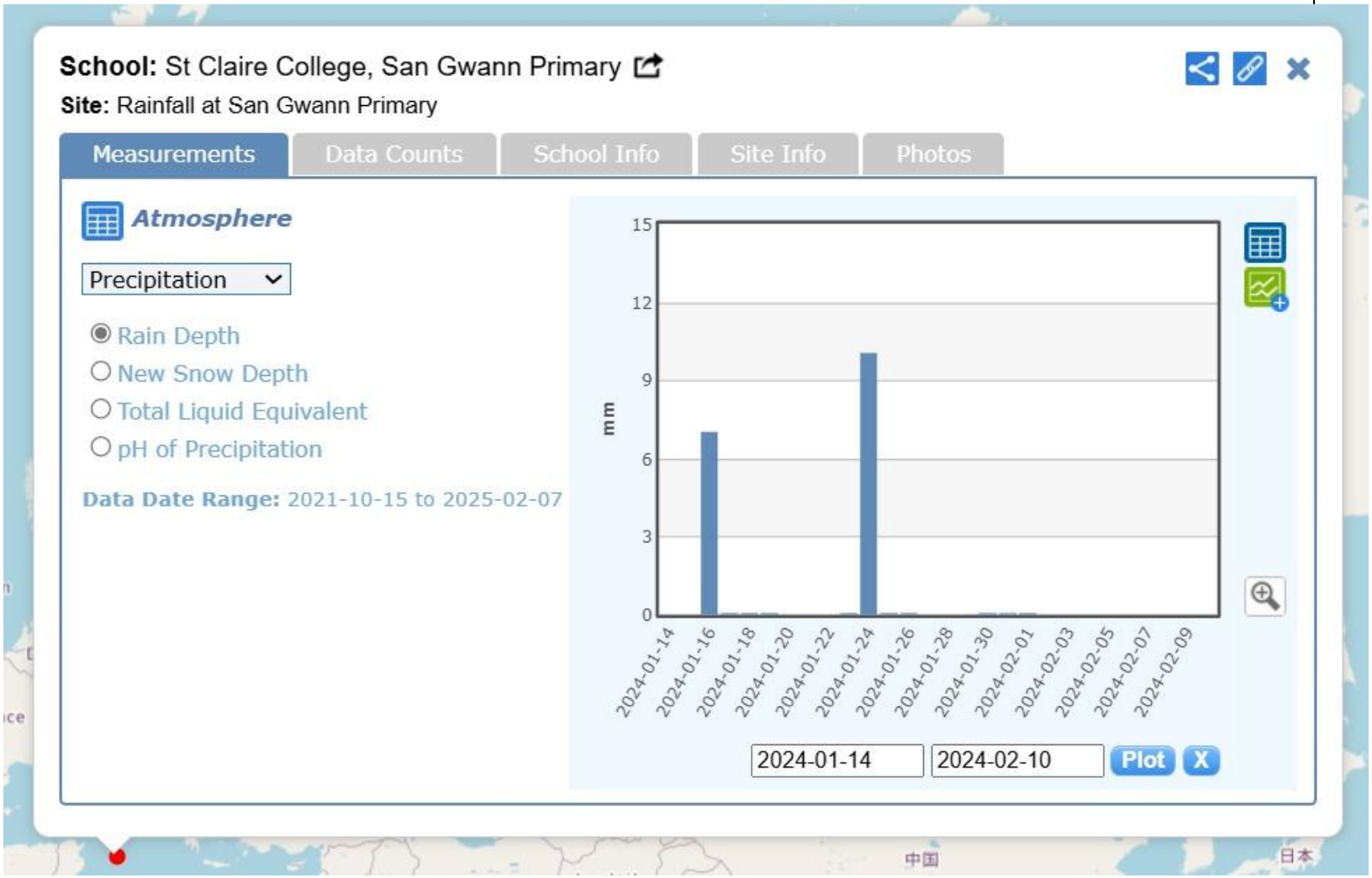






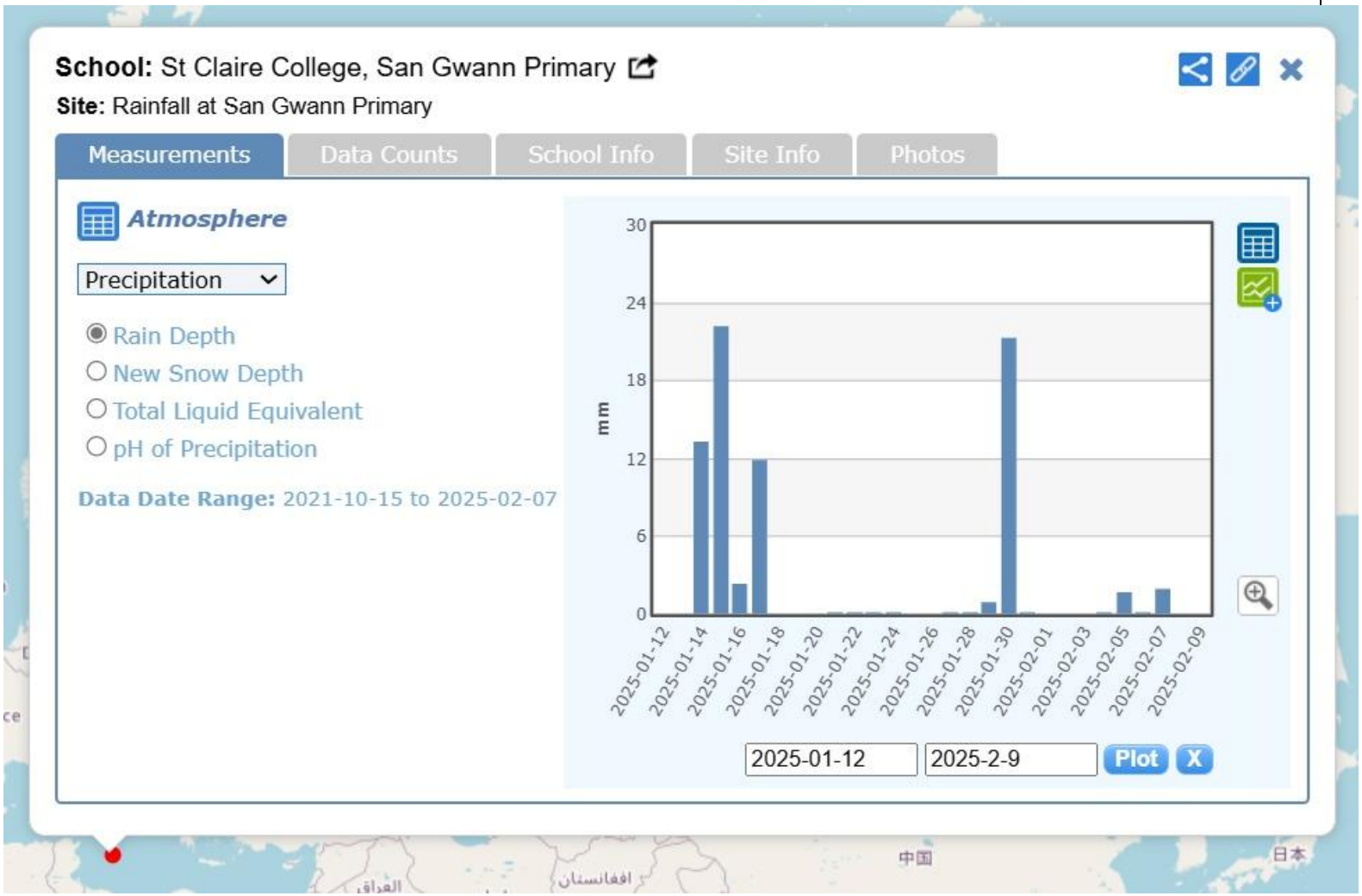
Rainfall measured during IOP

15th January – 9th February 2024



Rainfall measured during IOP

13th January – 7th February 2025



Findings

- Rainfall was consistent in the first half of the period, with fluctuations in the latter half.
- Highest rainfall recorded on Jan 15 & Jan 30, significantly impacting total seasonal rainfall.
- Patterns align with Malta’s typical winter weather, characterized by unpredictable rainfall events.
- Understanding these trends helps improve water management and climate change predictions.

Collecting Rainwater at School

In Ireland, schools focus on nature-based solutions for floods, but in Malta, we find ways to harvest rainwater.

At our school, we built and decorated a tank to collect rainwater.

THANK YOU