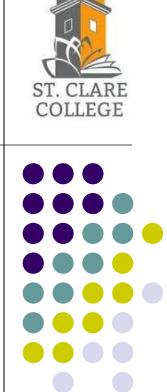
# Rainfall at San Ġwann Primary School Malta





### **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**

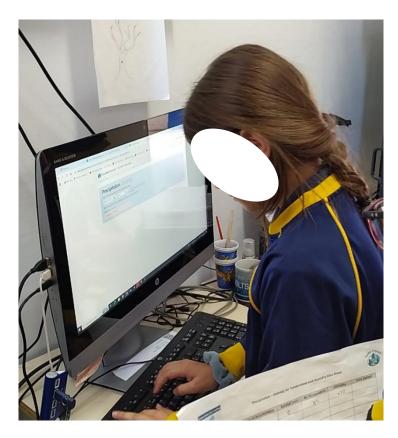


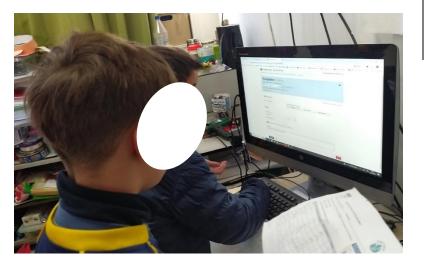


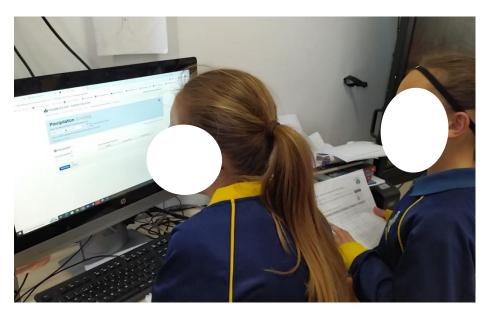




#### Inputting Data to GLOBE database









#### Rainfall measured during IOP 15th January – 9th February 2024

Measurements Data Count	s School Info	Site Info P	hotos	
Atmosphere	15			
Precipitation 🖌				
Rain Depth	12			
O New Snow Depth	9			
O Total Liquid Equivalent	E			
O pH of Precipitation	6			
Data Date Range: 2021-10-15 to 2	2025-02-07			
	3			
				Ð
	0	0 4 5 0 0 0 0	8 9 7 7 7 1	
	2024 01.14	10,10,10,10,10,10,10,10,10,10,10,10,10,1	2024-01-20 2024-01-30 2024-01-30 2024-02-01 2024-02-05 2024-02-05 2024-02-05	5
	62 COL			
		2024-01-14	2024-02-10 Plot	

#### Rainfall measured during IOP 13th January – 7th February 2025

Measurements Data Counts	School Info	Site Info	Photos		
Atmosphere	30				
Precipitation 🗸	24				
Rain Depth	24		100		
O New Snow Depth	18				
O Total Liquid Equivalent	E				
D pH of Precipitation	E 12				
ata Date Range: 2021-10-15 to 2025-					
and and hunger 2021 10 10 (0 2020	6				
	0				Ð,
	21.12	21-19 21-16 21-18 21-20	21.24 21.26 21.26 21.30	22:02 20:52 20:52 20:52 20:52 20:52 20:52 20:52 20:52 55:03	
	2035.01.12	2025.01.14 2025.01.16 2025.01.16 2025.01.20 2025.01.20		2025.02.03 2025.02.03 2025.02.05 2025.02.05	
		2025-01-1		The second	

### 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**