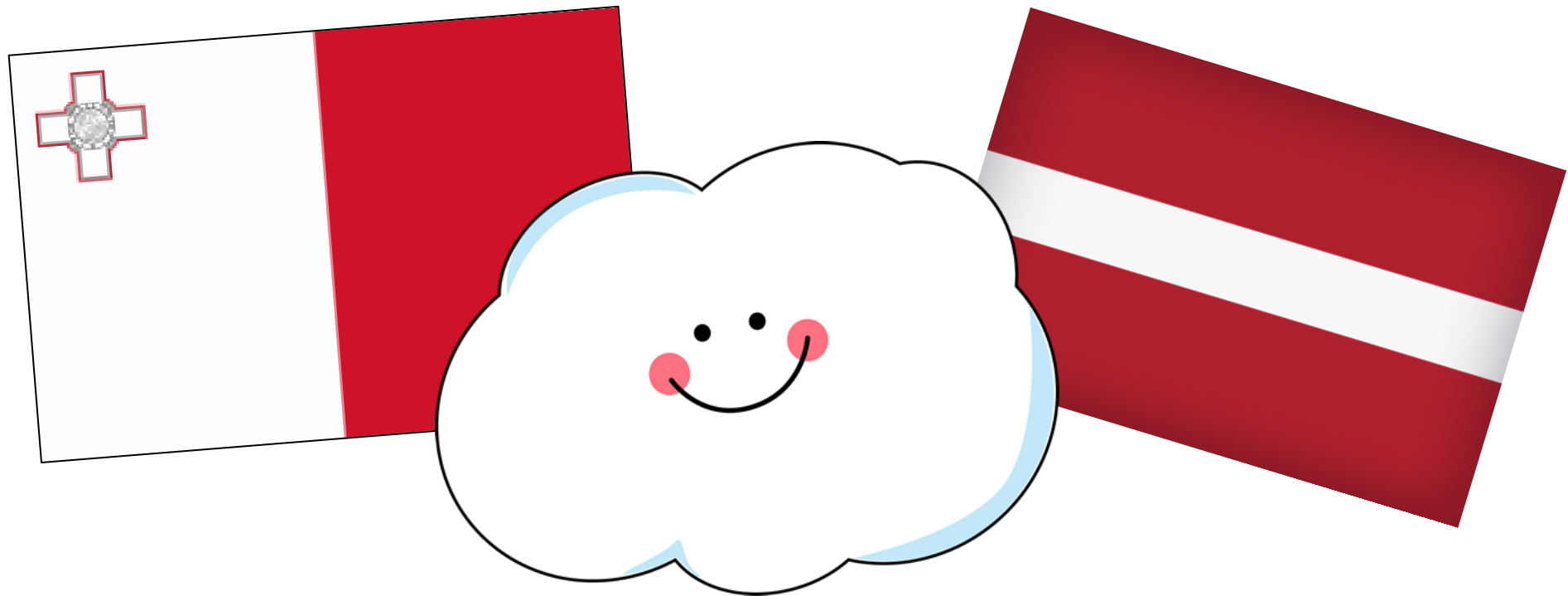




Across Clouds and Cultures

A Year of GLOBE Collaboration Between Malta and Latvia





Mālpils Novada Vidusskola, Latvia



Maria Regina College Naxxar Primary School, Malta

Curriculum and Learning Approach

- Interdisciplinary - science, arts, mathematics, cooking, and drama.
- Use of the GLOBE Observer app to observe and record cloud data.
- Students created visual data representations, including charts and graphs.



Using Beebot 'to reach the cloud'
and revise
directions.



Cloud mobiles



Cloud waffles



Cloud jelly desserts



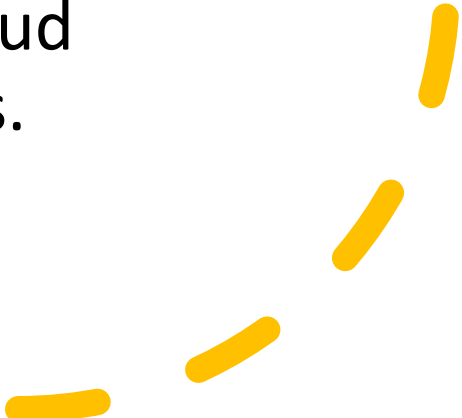
Storm in a cup
..... since some
clouds bring
storms!



Data Collection and Knowledge Building

- Regular cloud observations conducted throughout the year.

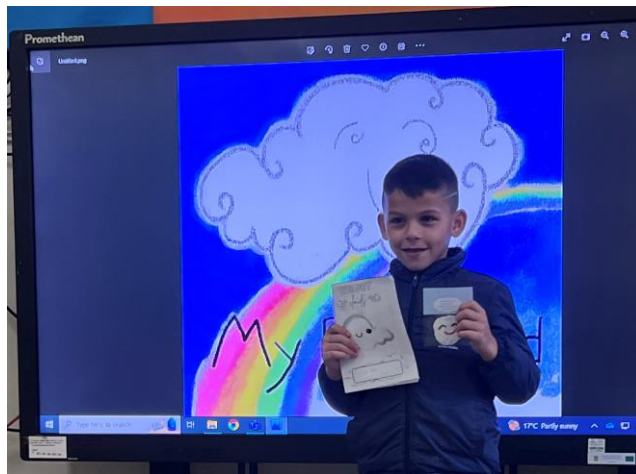
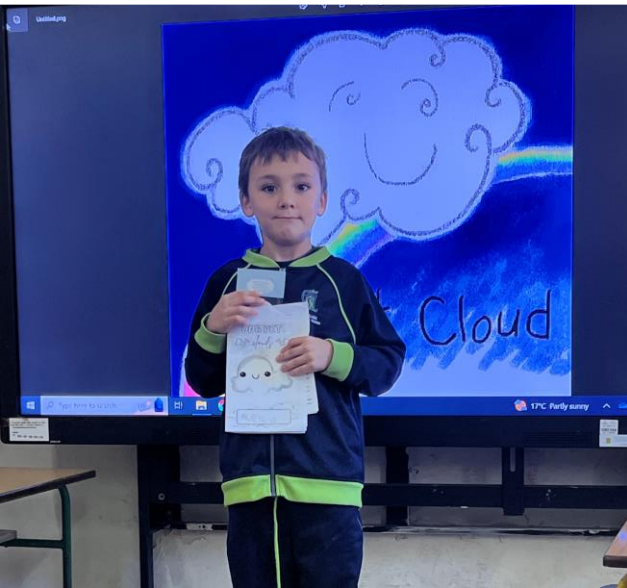
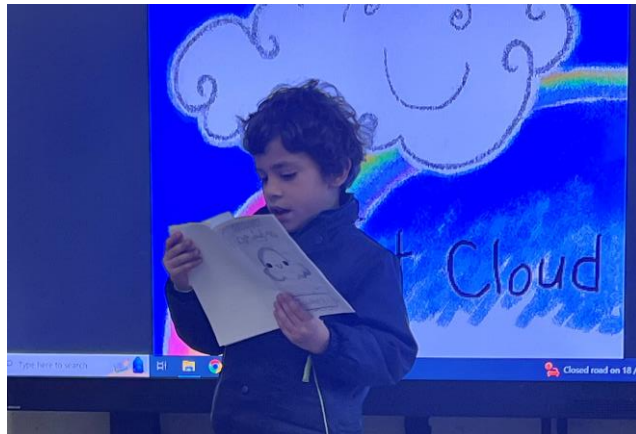
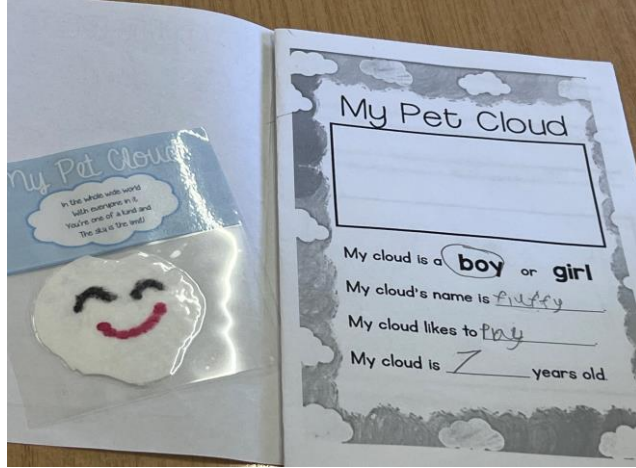
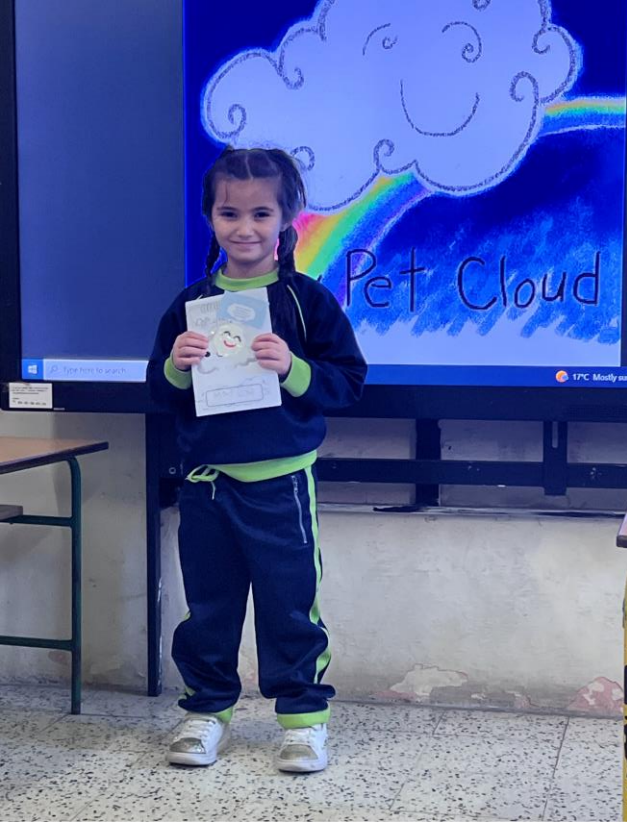
Students from both schools:

- Collected data on cloud types and weather conditions.
 - Shared photos of diverse weather conditions, illustrating the different climates in Malta and Latvia.
 - Enhanced their knowledge of cloud formations and weather patterns.
- 

Learning about different types of clouds.

- Cloud journal
- Voted for favourite cloud
- Outdoor sessions to spot the different types of clouds.





Students adopted a pet cloud for a week and wrote a journal about the adventures.



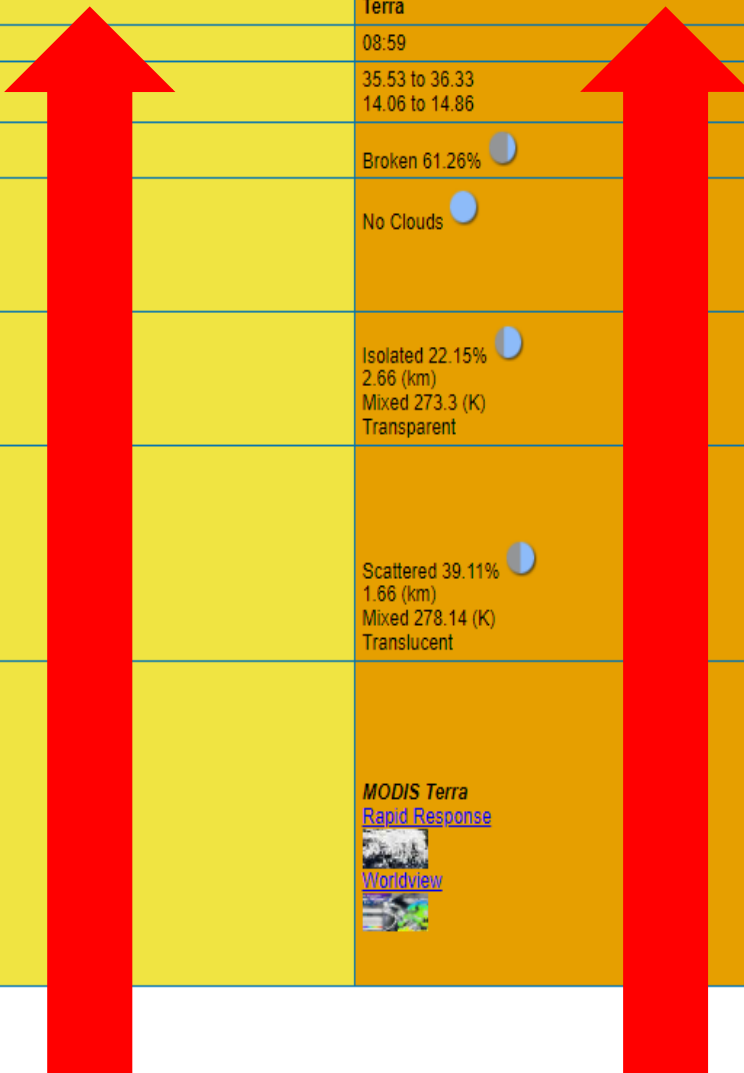
Used the GLOBE Observer app to collect cloud data.





NASA Cloud Observation and Satellite Match

Satellite (Understanding the Satellite Match)		GEO	Terra	Your Observation
Universal Date/Time 2024-01-16		09:10	08:59	09:12
Latitude Range Longitude Range		35.59 to 36.23 14.13 to 14.77	35.53 to 36.33 14.06 to 14.86	Latitude 35.913900 Longitude 14.446500
Total Cloud Cover		Broken 66.31%	Broken 61.26%	Broken (50-90%)
H I G H	Cloud Cover Cloud Altitude Cloud Phase Cloud Opacity	No Clouds	No Clouds	
M I D	Cloud Cover Cloud Altitude Cloud Phase Cloud Opacity	Few (1.09%) 2.05 (km) Water 275.23 (K) Translucent	Isolated 22.15% 2.66 (km) Mixed 273.3 (K) Transparent	
L O W	Cloud Cover Cloud Altitude Cloud Phase Cloud Opacity	Broken 65.22% 1.45 (km) Water 279.61 (K) Translucent	Scattered 39.11% 1.66 (km) Mixed 278.14 (K) Translucent	Cumulus Stratocumulus Broken (50-90%) Opaque
Corresponding NASA Satellite Images. Click to view image ---->		METEOSAT-10 Visible Infrared GEO Tutorial	MODIS Terra Rapid Response Worldview 	North East South West Up Down



Are there any comments you would like to add? Be sure to add the name of the satellite for our record.

This cloud observation matched with 2 satellites.


Surface Conditions

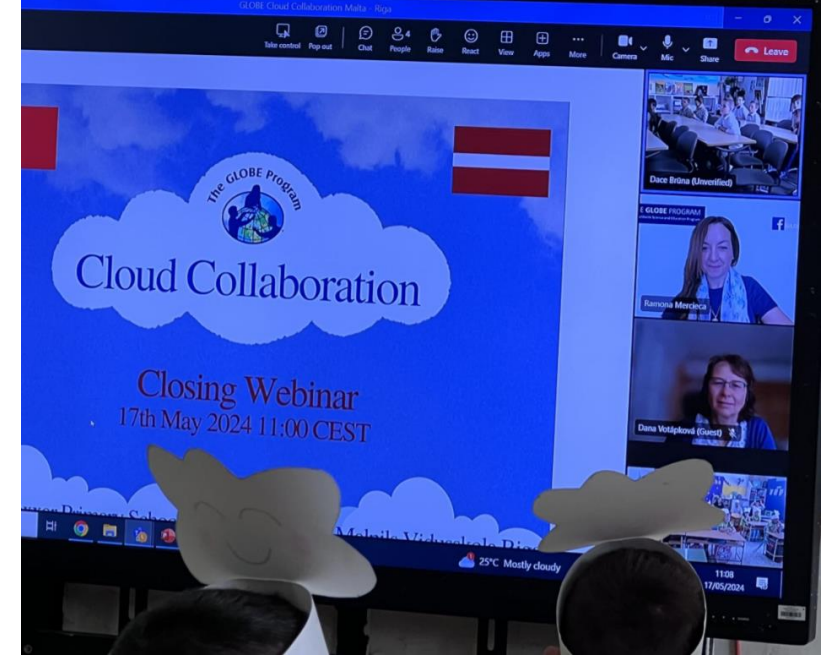
Snow/Ice	No
Standing Water	No
Muddy	No
Dry Ground	Yes
Leaves on Trees	Yes
Raining or Snowing	No



Cultural and Scientific Exchange

Students gained:

- Insights into the distinct climates and landscapes of Malta and Latvia.
 - Experience in cultural exchange, fostering connections beyond scientific observations.
 - A deeper appreciation of global environmental awareness.
- 





Star Story on GLOBE website



GLOBE Malta and Latvia: Collaborating to Inspire
Young Scientists in Primary-Grade GLOBE Classrooms

Jun 24, 2024



Thank You

Prof Paul Pace, GLOBE Country Coordinator

Ms Ramona Mercieca, GLOBE Deputy Coordinator

