GLOBE ENSO Student Research Campaign, the StoryMaps

Vasco M. Mantas [1,2]

(1) MARE, Marine and Environmental Research Centre, University of Coimbra, Portugal
(2) CEMUC, Centre for Mechanical Engineering, University of Coimbra, Portugal

Introduction

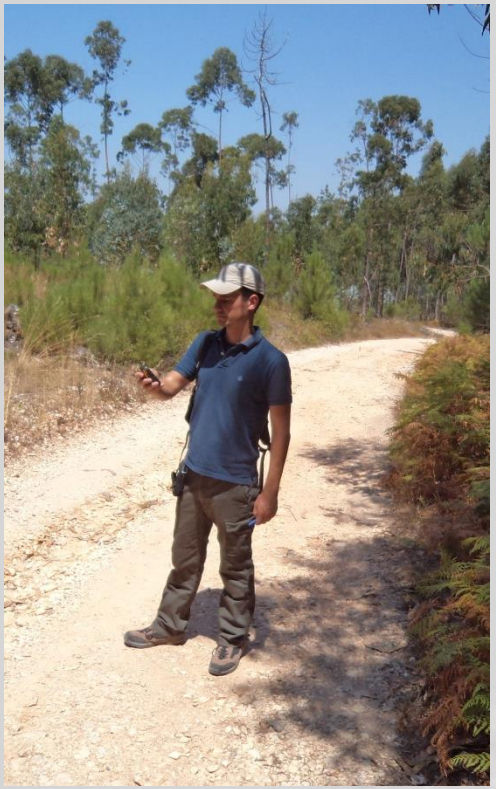
- Biologist, Earth Observation.

- Today's messages:

1. Scientists need feedback from the community;

2. Educators, students, and citizen scientists can play A big role in science.

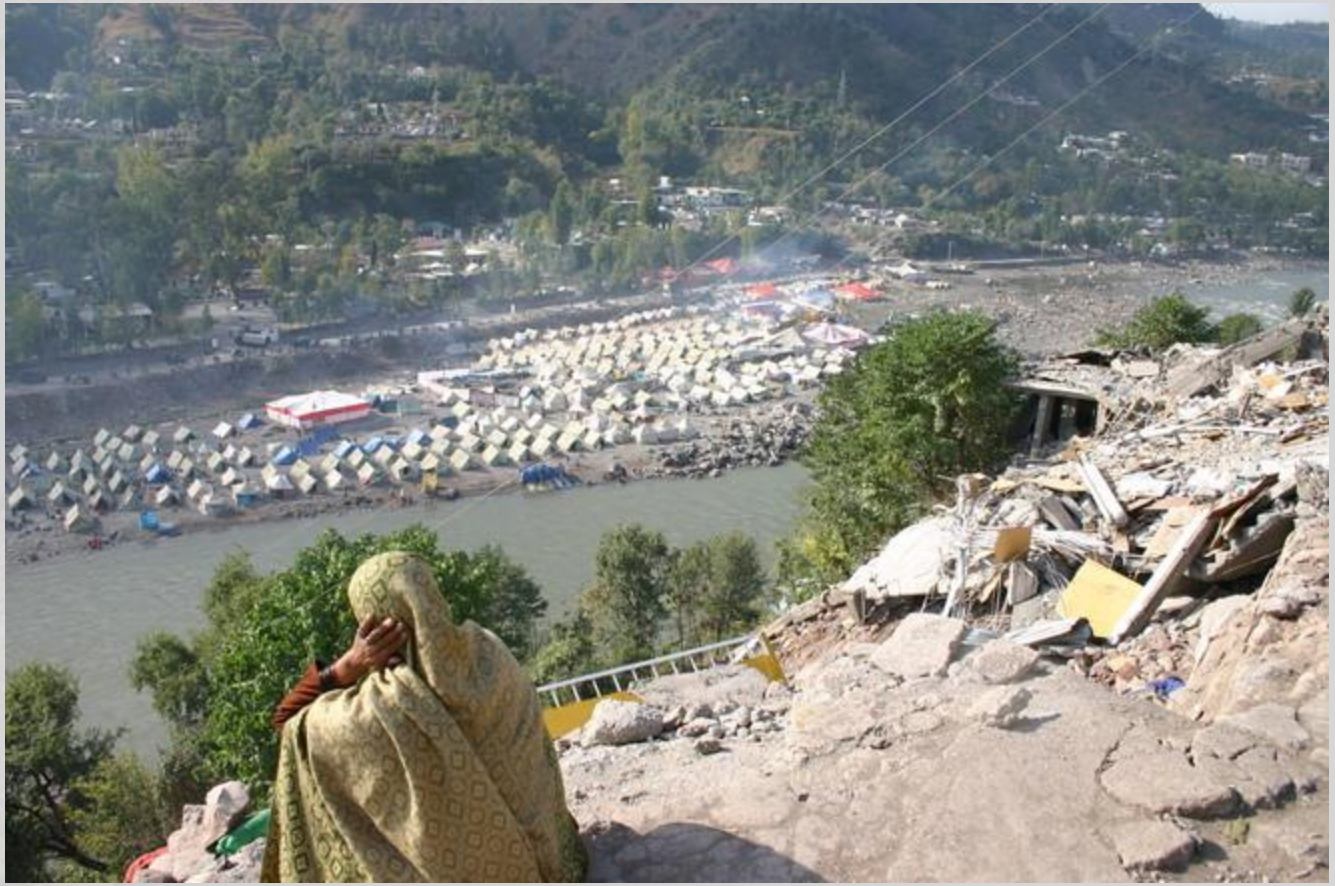
3. StoryMaps can contribute to the establishment of a fruitful dialogue..



Science and people

- Scientists often study phenomena that affect the population.

Science and people



Dialogue

Story Maps as a solution

- StoryMaps combine personal experiences and stories with geographic data: a story and its context;

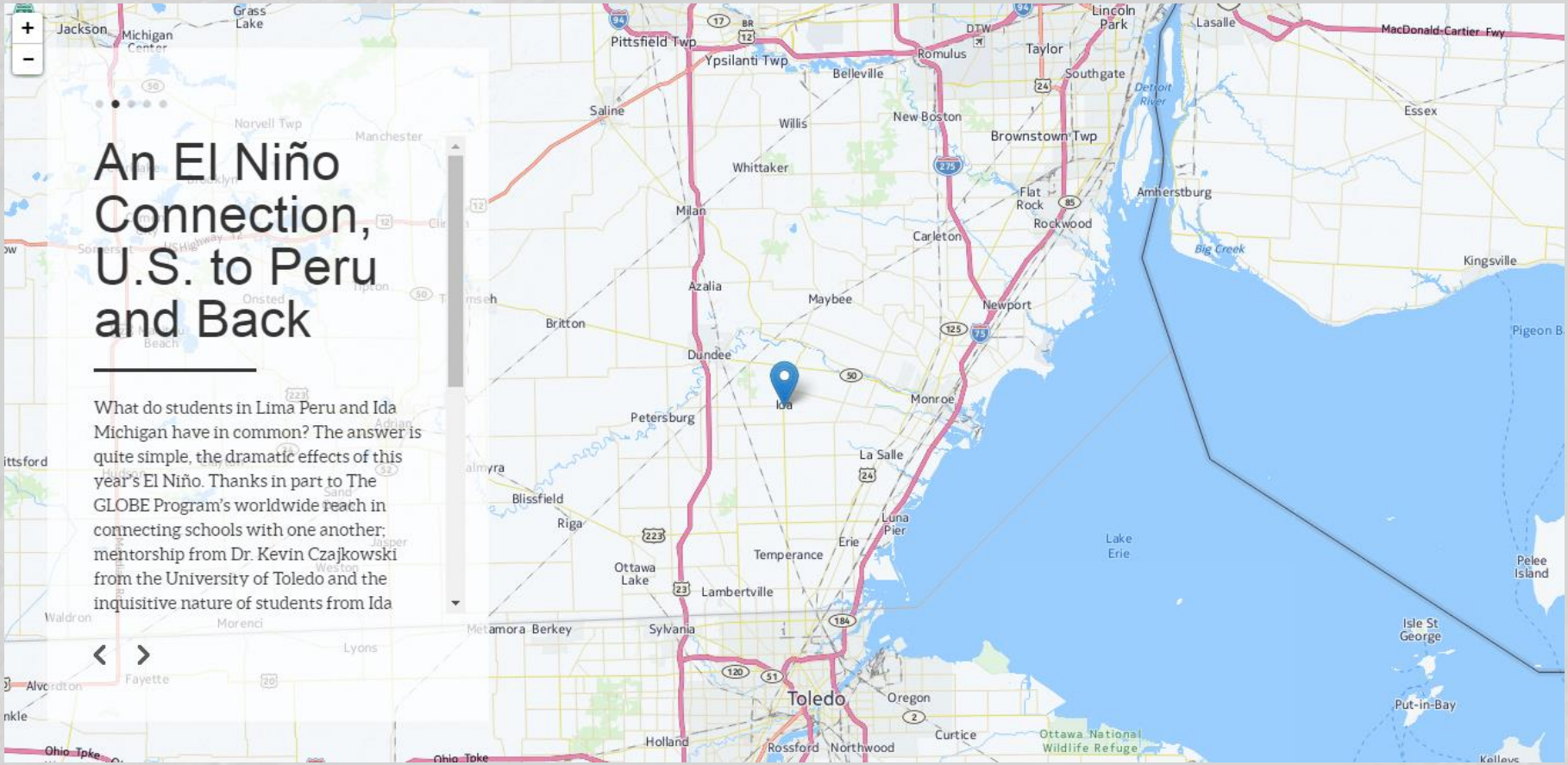
- Writing about an experience often helps the writer to consolidate ideas and stimulates creativity, fostering the development of new hypothesis and the formulation of new challenges;

- Captivate the audience with compeling narratives.

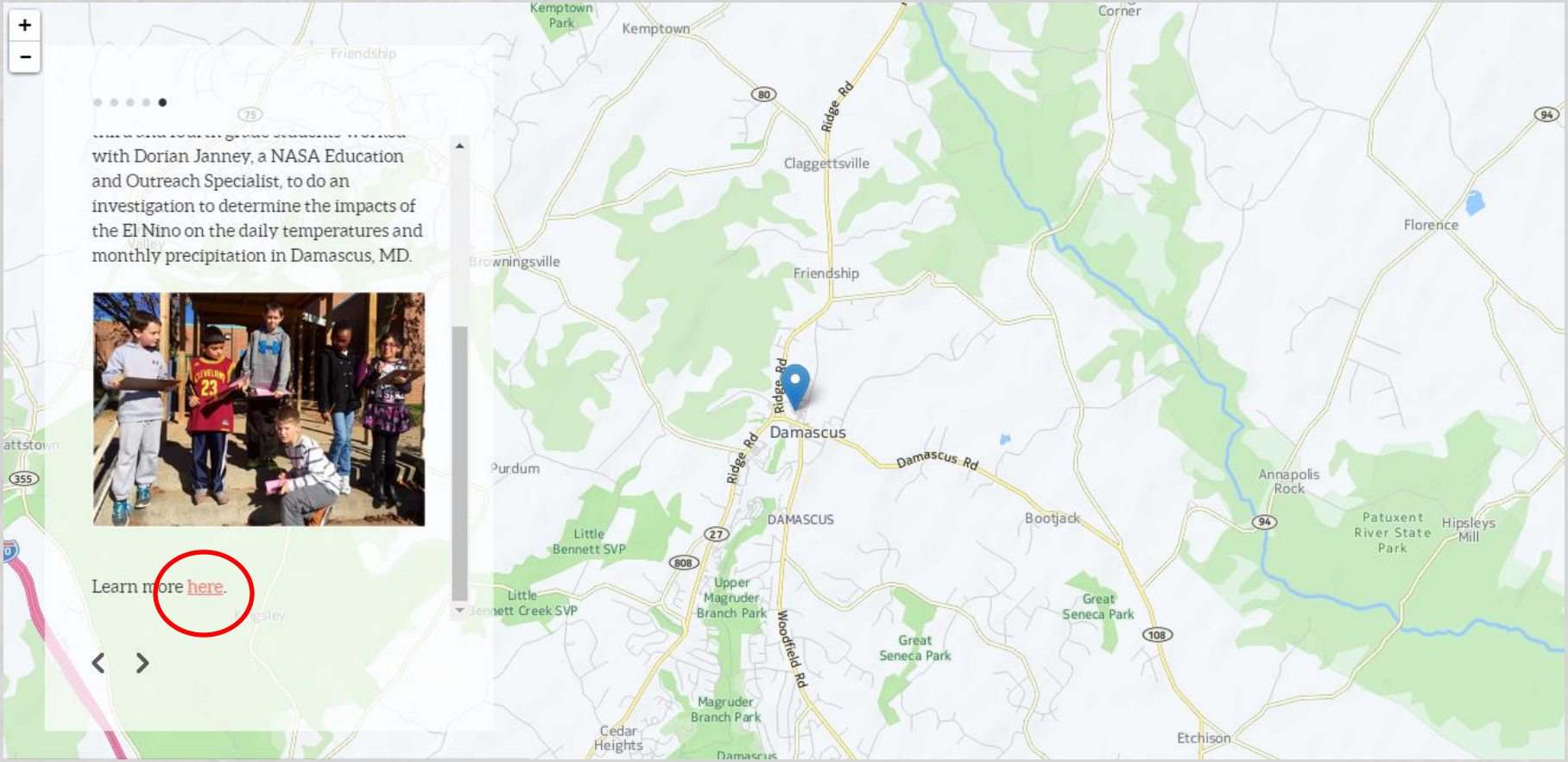
StoryMaps

www.smartbasins.com/storymaps

StoryMaps


An El Niño Connection, U.S. to Peru and Back
What do students in Lima Peru and Ida Michigan have in common? The answer is quite simple, the dramatic effects of this year's El Niño. Thanks in part to The GLOBE Program's worldwide reach in connecting schools with one another; mentorship from Dr. Kevin Czajkowski from the University of Toledo and the inquisitive nature of students from Ida
Jackson
Grass Lake
Michigan Center
Pittsfield Twp
Ypsilanti Twp
Belleville
Romulus
DTW
Lincoln Park
Taylor
Lasalle
MacDonald-Cartier Fwy
Southgate
Detroit River
Essex
Saline
Willis
New Boston
Brownstown Twp
Whittaker
Flat Rock
Rockwood
Amherstburg
Milan
Carleton
Big Creek
Kingsville
Azalia
Maybee
Newport
Britton
Dundee
Ida
Monroe
Pigeon B
Petersburg
La Salle
Blissfield
Riga
Luna Pier
Erie
Temperance
Lake Erie
Ottawa Lake
Lambertville
Pelee Island
Sylvania
Isle St George
Toledo
Oregon
Put-in-Bay
Holland
Rossford
Northwood
Curtice
Ottawa National Wildlife Refuge

StoryMaps

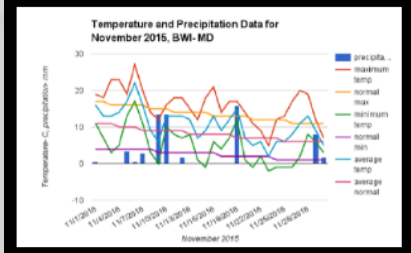

with Dorian Janney, a NASA Education and Outreach Specialist, to do an investigation to determine the impacts of the El Nino on the daily temperatures and monthly precipitation in Damascus, MD.
Learn more here.
Kemptown Park
Kemptown
Friendship
Claggettsville
Ridge Rd
Damascus
Damascus Rd
DAMASCUS
Purdum
Bootjack
Florence
Annapolis Rock
Patuxent River State Park
Hipsleys Mill
Little Bennett SVP
Upper Magruder Branch Park
Great Seneca Park
Magruder Branch Park
Woodfield Rd
Cedar Heights
Etchison

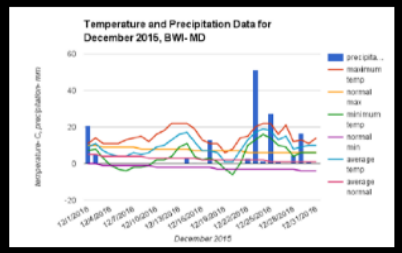
StoryMaps

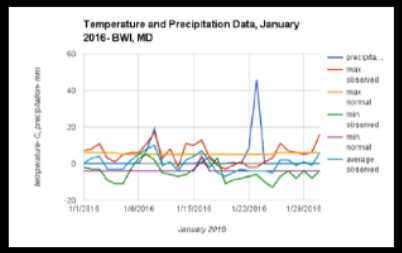
During the winter of 2015-2016, several third and fourth grade students worked with Dorian Janney, a NASA Education and Outreach Specialist, to do an investigation to determine the impacts of the El Nino on the daily temperatures and monthly precipitation in Damascus, MD.

The students would go out most days and would use a rain gauge to measure the precipitation, and would use a surface temperature thermometer to measure the low, high, and average temperatures for each day.

StoryMaps







> *We concluded that our weather in this region was impacted in the way that the meteorologists had predicted: We had warmer than average temperatures and more precipitation than we usually do during the months of November, December, and January.*
>
> *We found that the daily maximum temperature was higher than normal for 66/92 days, which means that about 72% of the time, the daily maximum temperature was above the normal maximum temperature.*
>
> *We found that the daily average temperature was above the normal average temperature for 60/92 days, which means that about 65% of the days had above normal average temperatures.*
>
> *We found that the daily minimum temperature was above normal minimum temperatures for 52/92 days, which means that about 57% of*

StoryMaps: how to participate

- Send us the following information:
  - Who are you? What do you do?
  - Location of the story;
  - Your contribution (report, photo, video, reflection, a tale, or anything else you see fit);
  - Photos and videos help your story to stand out.

StoryMaps: how to participate

- Ideas for stories:
  - How did the temperature and rainfall change?
  - How did the vegetation or land cover changed in response to different weather patterns?
  - How did your community respond to extreme events (floods, drought)?
  - What actions are you and your community taking to adapt to climate change?

StoryMaps: how to participate

stories@smartbasins.com

StoryMaps: the future

- The StoryMaps platform is still evolving;
- New features to be presented soon;
- Do you want to collaborate? Send us an email to join us... Dialogue is the key!

Thank you!

vasco.mantas@dct.uc.pt

Projects supported by:

POPH PROGRAMA OPERACIONAL POTENCIAL HUMANO

FCT Fundação para a Ciência e a Tecnologia
MINISTÉRIO DA EDUCAÇÃO E CIÊNCIA