

Watershed Field Experiences - Providing Local Perspective to your Students

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November 12, 2020



Hope COLLEGE

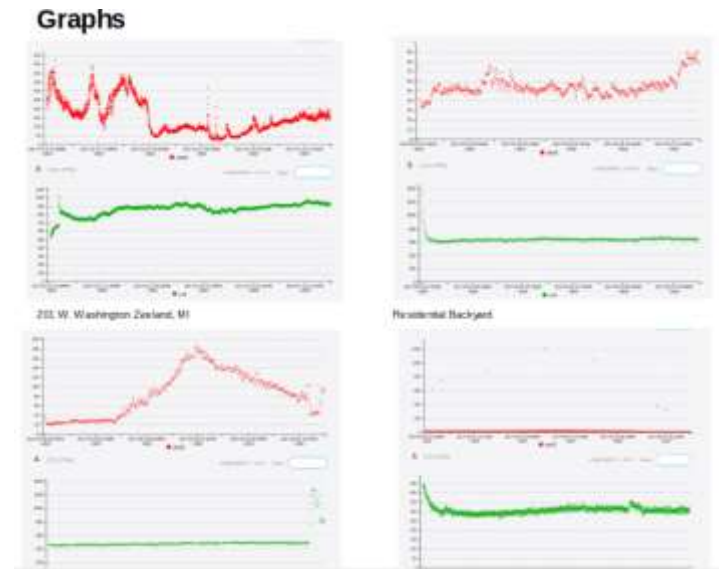
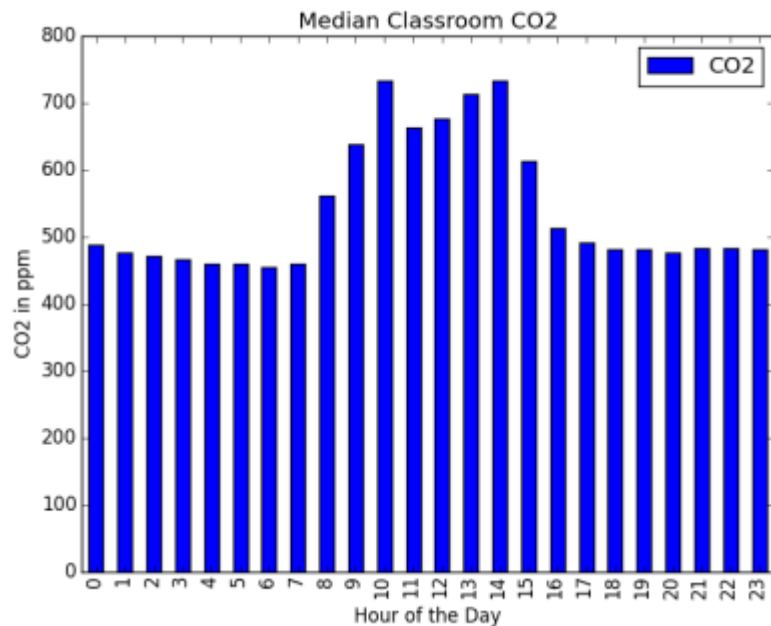
Welcome

- Authentic data sources spark interest and inquiry
- NOAA and NASA resources
- Linking to local sources
- Classroom program this summer



Authentic Data

- Getting students to pose their own questions and explore data to answer those questions
- Explore on national databases and make their own graphs



NOAA Resources

- Data in the Classroom
- <https://dataintheclassroom.noaa.gov>



The screenshot shows the NOAA Data in the Classroom website. At the top left is the NOAA logo with the text "National Oceanic and Atmospheric Administration" and "U.S. Department of Commerce". To the right is "Satellite and Information Service". The main heading is "Data in the Classroom". Below it is a navigation menu with links: Home, El Niño, Sea Level, Water Quality, Coral Bleaching, and Ocean Acidification. The featured section is "Monitoring Estuarine Water Quality", which includes a paragraph: "Estuaries are critically important ecosystems, yet they are also some of the most impacted by human activities. In this module, students will use real data to investigate the water quality characteristics of an estuary (water temperature, salinity and oxygen), the relationship between these parameters, and the effect that water quality has on estuarine organisms." At the bottom are two buttons: "Teachers Resources" and "Launch The Activity".



Bring data local

- Water quality data coordinated by the Macatawa Area Coordinating Council

<http://www.the-macc.org/environmental-program/water-quality/>

- Policy directions from data

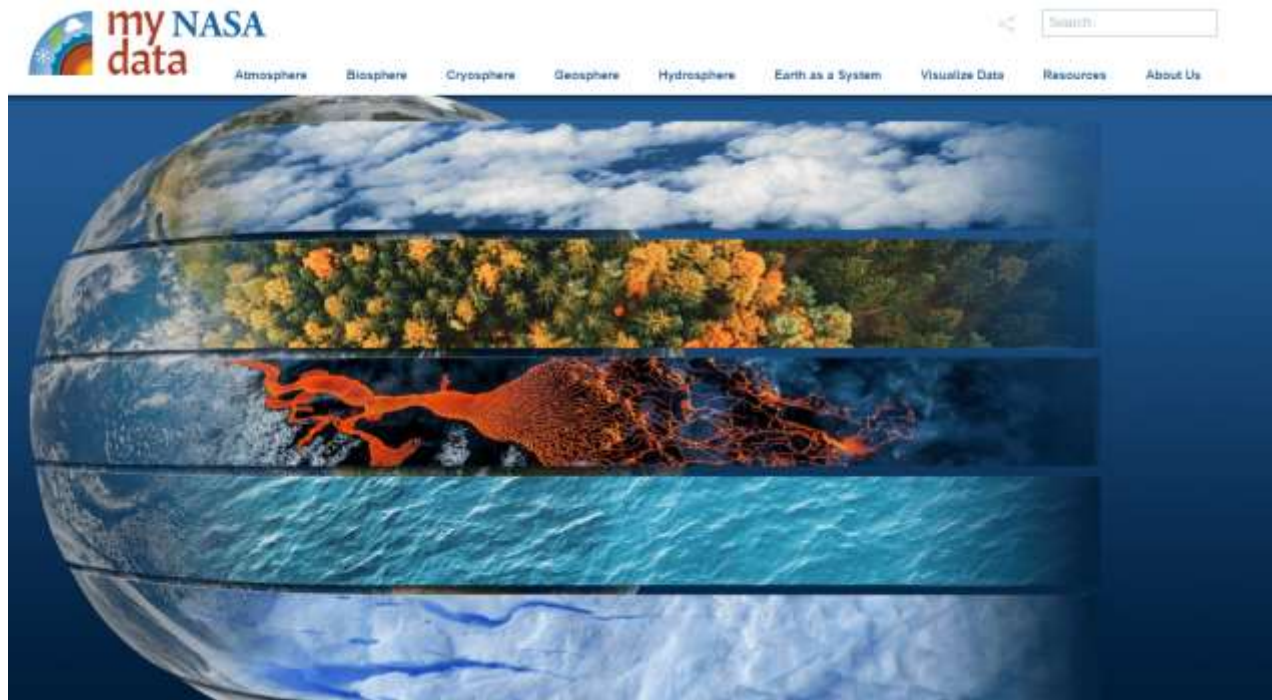
<http://www.the-macc.org/wmwc/>

- Water quality kits to loan



NASA – Air Quality Resources

- <https://mynasadata.larc.nasa.gov/>



Bring data local

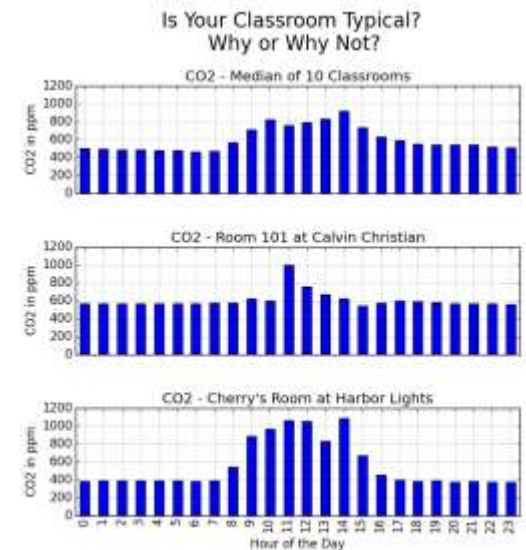
- We're creating lessons to tie federal data with local research

- Local data

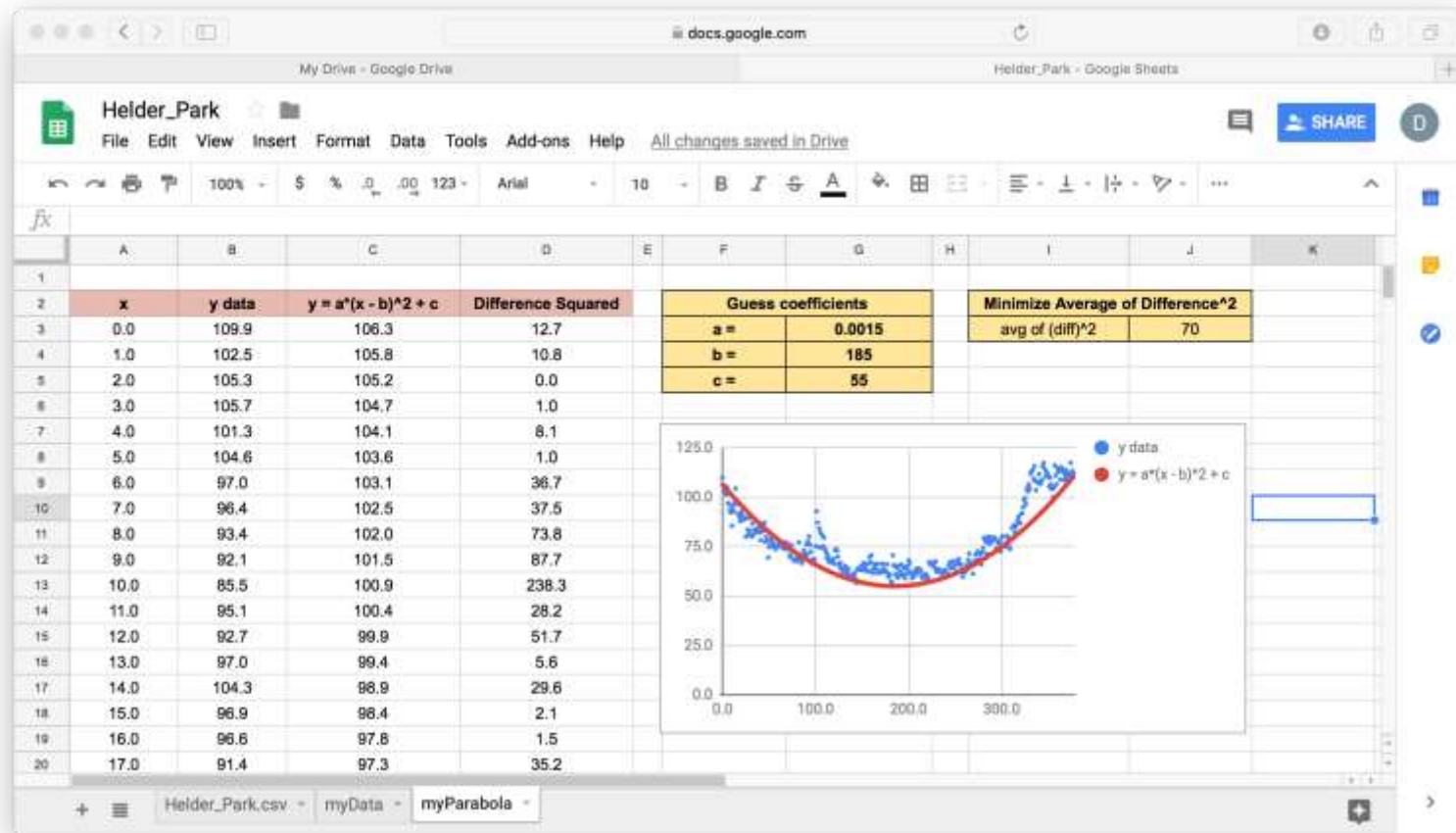
<http://www.deqmiair.org/ozonemaps.cfm>

- Air quality – monitors to loan

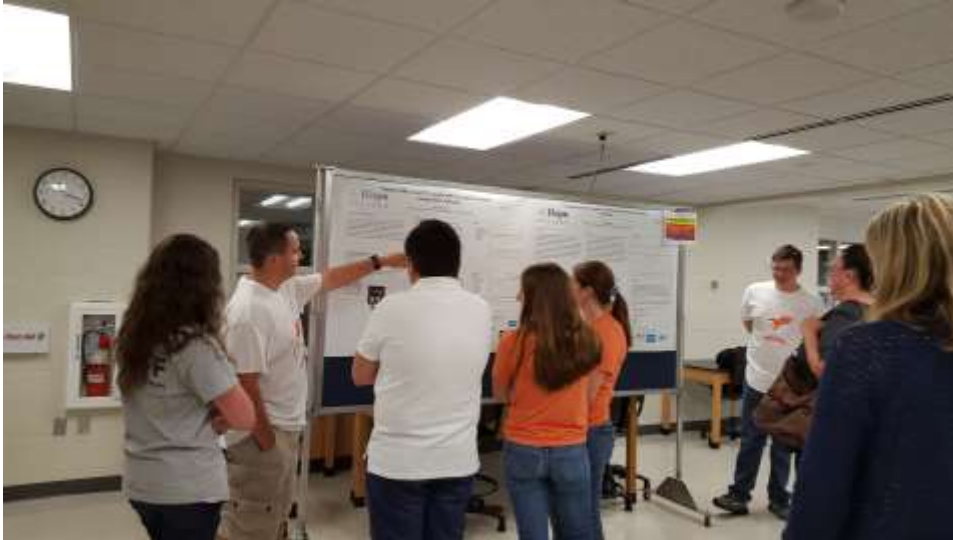
<https://parts.pm/>



Interdisciplinary



Student Presentations



Summer Professional Development

- In the field training
- Classroom materials
- Week with students

- Training and instructional stipends

- Email: explore@hope.edu

