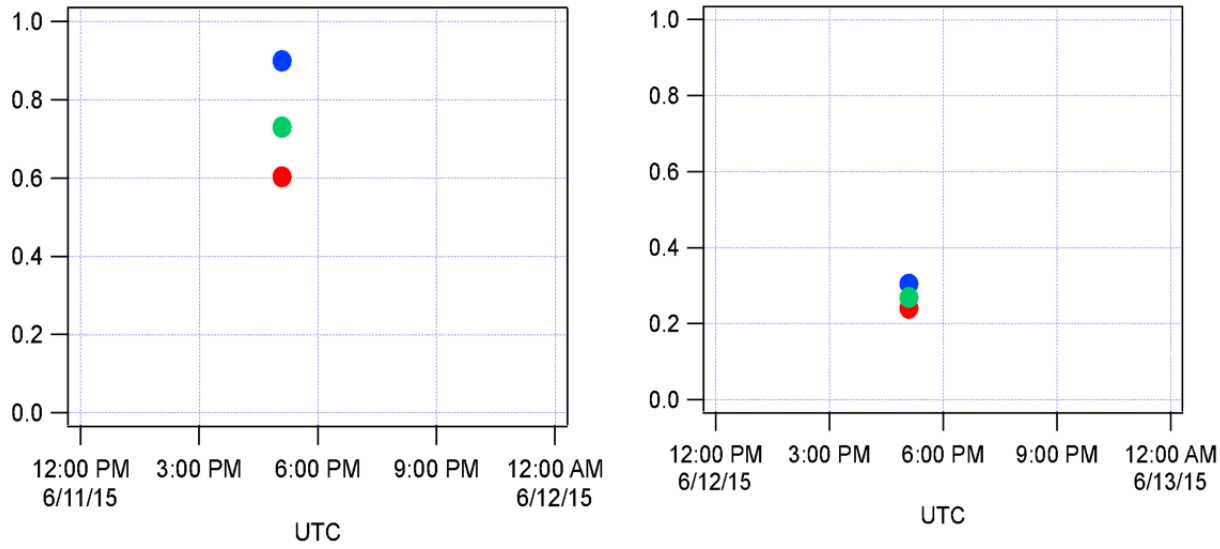
Name: _____ Date: _____ Class: _____

Title: Smoke Travels

Student Sheets

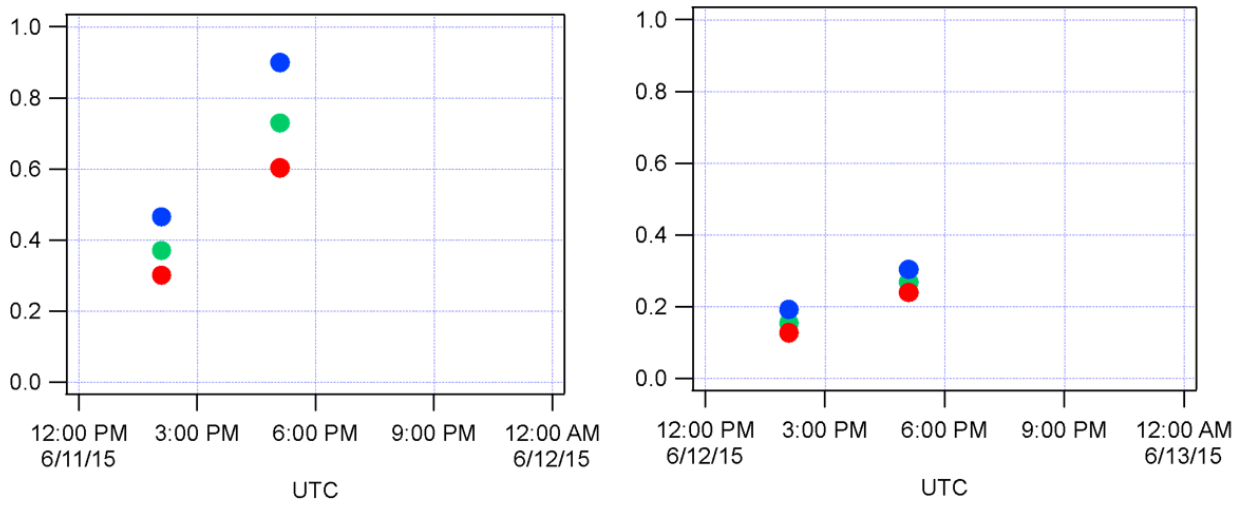


AERONET Reading from 6/11/15 - 6/13/15 |Source: AERONET | https://mynasadata.larc.nasa.gov/sites/default/files/inline-images/Aeronet.png

Question Set 1

1. What are two observations that can be made from the first two graphs?

2. What are two or more questions that cannot be answered?

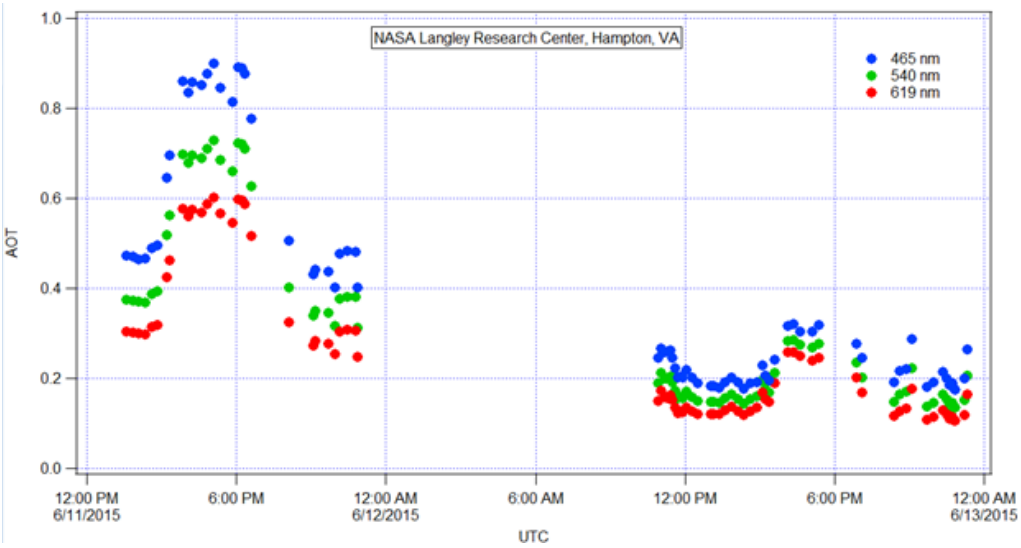


AERONET Reading from 6/11/15 - 6/13/15 | Source: AERONET | https://mynasadata.larc.nasa.gov/sites/default/files/inline-images/Aeronet2.png

Question Set 2

1. What observations can be made from the two graphs with more data?

2. What questions cannot be answered?



AERONET Reading - Every hour | Source AERONET |
https://mynasadata.larc.nasa.gov/sites/default/files/inline-images/Aeronet3.png

Question Set 3

1. When did the smoke most likely pass through?

2. How are the two days different?

3. How are the two days similar?

4. Propose an explanation for these observations.

5. What is a possible advantage of having more frequent data observations than just one or two readings per day?

6. What is one possible problem that remains, even when multiple readings are included?

Question Set 4

1. Why would knowing if an air quality event, such as a fire or weather inversion is on-going important?

Question Set 5

1. How does having more data build a more complete picture of an event?

2. How does having different sources of data help?

3. How do you think different types of data could have been used in monitoring the fires in 2022?