



Applied Remote Sensing Training (ARSET) Program

Monitoring Tropical Storms for Emergency Preparedness

Part 1 Homework

Homework Questions

Select a past cyclone of interest, in a region of interest for you. You will use that cyclone and observe it using satellite data. If you need help finding a cyclone, below are cyclone report archives:

- <https://www.nhc.noaa.gov/data/tcr/>
- <http://www.prh.noaa.gov/cphc/summaries/>
- <http://www.metoc.navy.mil/jtwc/jtwc.html?cyclone>

Question 1

What is the name of the cyclone you selected?

Short answer text:

Question 2

What is the origin of the cyclone?
(name of ocean)

Short answer text:

Question 3

What is the date range for the cyclone?

(from formation to dissipation)

Short answer text:

Question 4

What country or region was affected by the cyclone?

Short answer text:

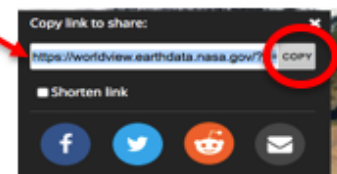
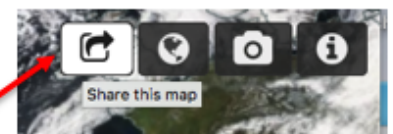
Exercise

Go to <https://worldview.earthdata.nasa.gov/>

- a) Zoom in the region of the cyclone
- b) You will see the timeline at the bottom of the map



- c) Using the arrows select the year and month of the cyclone
- d) Examine at the 'Corrected Reflectance (True Color) images from Terra/MODIS, Aqua/MODIS, and SNPP/VIIRS one after the other
- e) Go through any one or all three true color images to monitor the cyclone for the date range you picked in question 3 (use the pointer on the timeline to select days)
- f) Pick one image from the date range (preferably when the cyclone made a landfall)
- g) On the top right corner you will see four icons, select by clicking on the arrow (Share this map)
- h) You will get the link for the image you chose, copy the link



Question 5

Paste the link to the cyclone below.

Short answer text: