



Applied Remote Sensing Training (ARSET) Program

Earth Observations for Disaster Risk Assessment & Resilience

Homework Questions

Question 1

These two sources provide temperature data for extreme heat.

Answers: (bold correct)

- a. NLDAS and TRMM
- b. TRMM and MODIS
- c. NLDAS and MODIS**
- d. None of the above

Question 2

Excess Risk Temperature (ERT) for the New York case study used this temperature value as threshold for heat stress:

Answers: (bold correct)

- a. 100 degrees F
- b. 83.8 degrees F**
- c. 72.5 degrees F

Question 3

One of the indicators used by New York's Environment Public Health Tracking (EPHT) is:

Answers: (bold correct)

- a. **Summer temperature anomalies**
- b. Summer precipitation anomalies
- c. Annual ozone amount

Question 4

This is the source of NASA data used by New York's EPHT.

Answers: (bold correct)

- a. MODIS
- b. **NLDAS**
- c. SMAP
- d. TRMM

Question 5

Between 2012-2016 New York State experienced more cold-related hospitalizations compared to heat-related hospitalizations.

Answers: (bold correct)

- a. True
- b. **False**

Question 6

This web-based tool from WRI provides a Water Risk Analysis.

Answers: (bold correct)

- a. **Aqueduct**
- b. Giovanni
- c. Resource Watch

Question 7

Click on the [link](#) and zoom into Mozambique. The Riverine Flood Risk in Mozambique is:

Answers: **(bold correct)**

- a. Low-Medium
- b. Medium-High
- c. High
- d. **Extremely High**

Question 8

The Pacific Disaster Center (PDC) uses NASA's Fire Information for Resource Management System (FIRMS) for near real-time fire monitoring. Click on the [link](#). What NASA instruments are used by FIRMS for near real-time fire monitoring?

Answers: (bold correct)

- a. MODIS
- b. VIIRS
- c. FIRE
- d. Options A & B

Question 9

Using PDC's Risk and Vulnerability Assessment (RVA) Framework, which of the following are components of risk?

Answers: (bold correct)

- a. Multi-Hazard Exposure
- b. Vulnerability
- c. Coping Capacity
- d. Disaster Management Capabilities
- e. **All of the above**

Question 10

What is the name of PDC's platform for early warning and multi-hazard monitoring?

Answers: (bold correct)

- a. Early Warning Observational Kit (EWOK)

- b. HAZARED
- c. DisasterAWARE
- d. Joint Experiment for Disaster Investigation (JEDI)