#### Notes to the instructor:

This file contains two Emergency Management presentations:

- 1. "Stay Dry! Use Google Earth to Assess Flood Risk" (slides 2 to 7)
- 2. "Emergency Management for a Flooded Community" (slides 9 to 13)

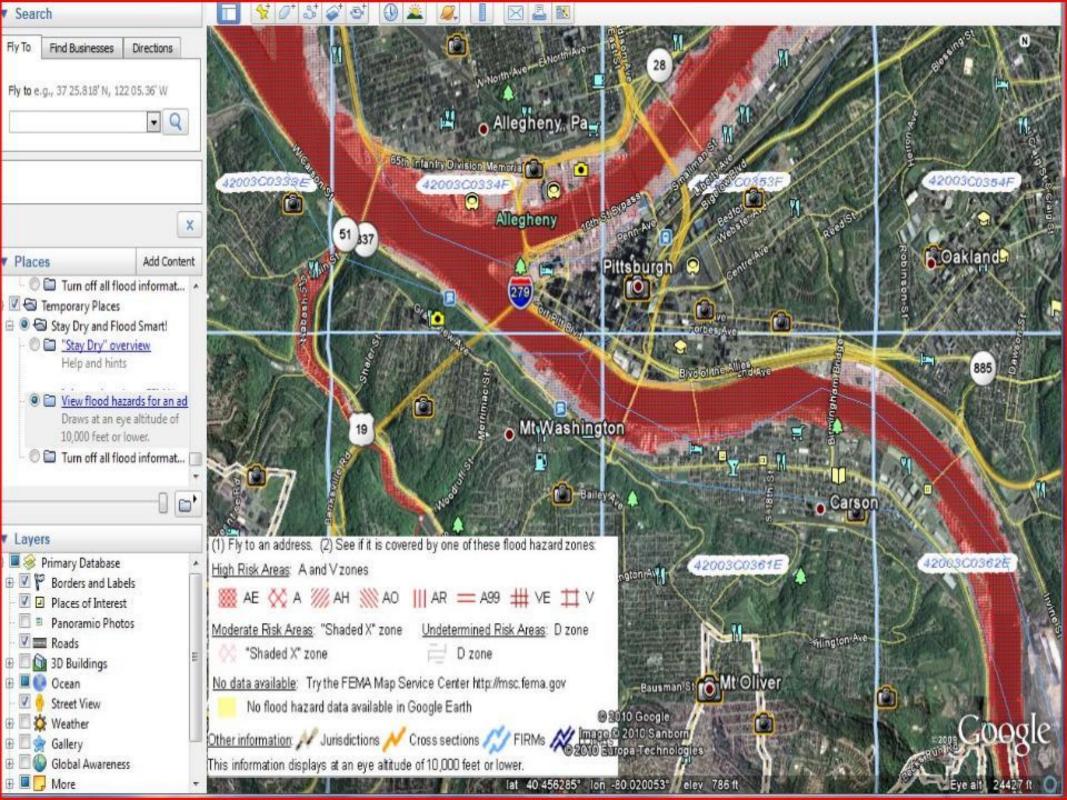
Plan to use slide numbers 2 to 7 and 13 with the MS Word file entitled "FLOOD! Emergency Management Activities." (filename: flood-emergencymgmt-activities.doc)

Image credit: *ReBuild Iowa*. University of Iowa sandbaggers before destructive 2008 flood.



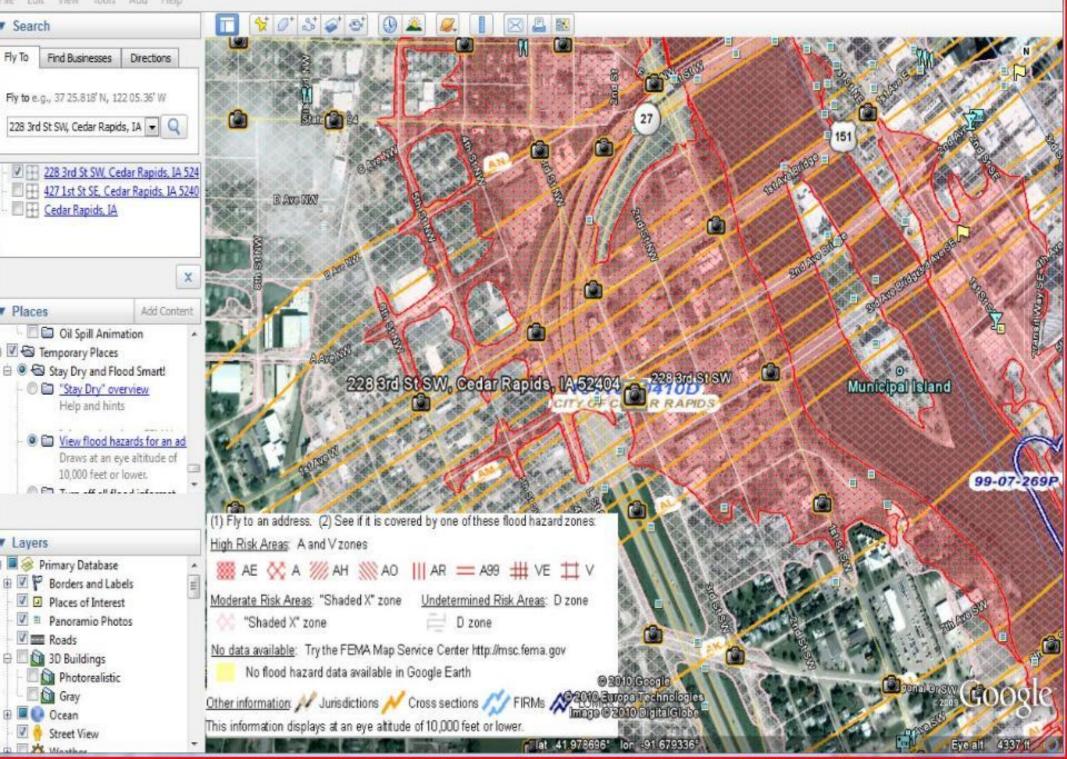
Stay Dry! Use Google Earth to Assess Flood Risk

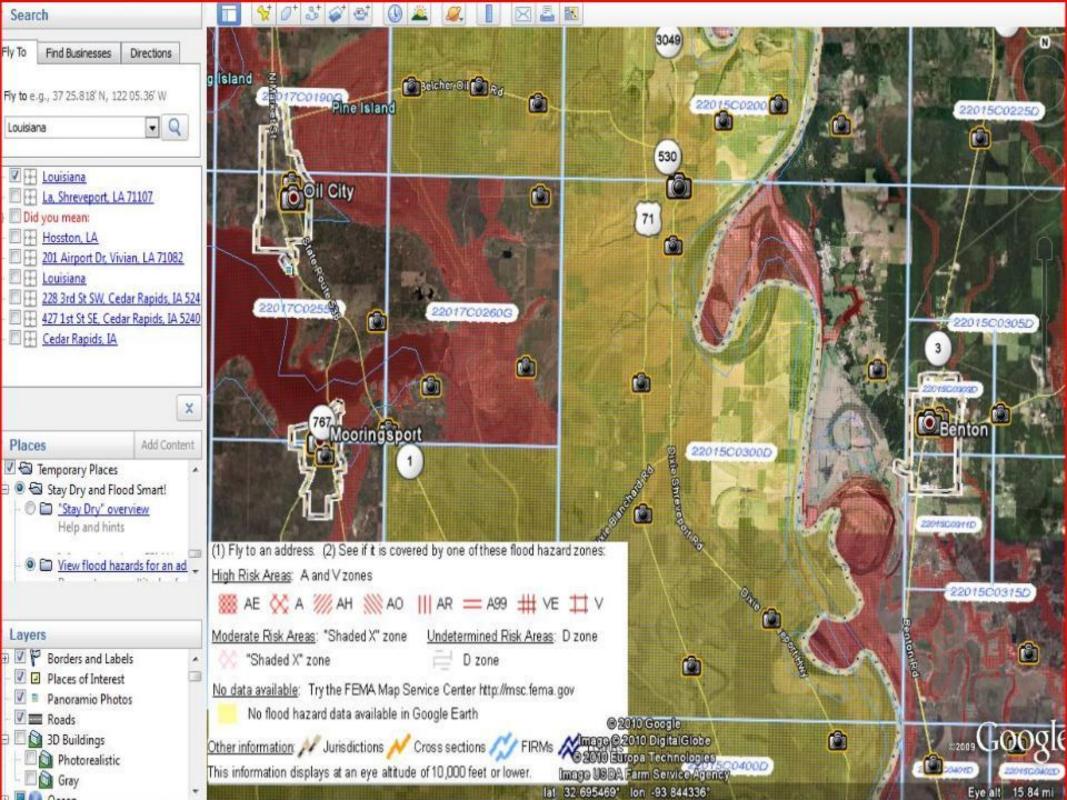
- Click on KMZ file "Stay Dry" developed by FEMA. Opens to city of Pittsburg, PA
- Read overview of directions
- Fly to Cedar Rapids
- Locate 2 addresses there and ask about flood risk areas
- Fly to county.....questions
- Fly to student address.....question



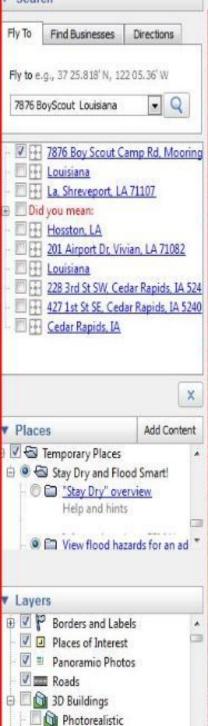
#### Google Earth Pro

File Edit View Tools Add Help





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22017 C 7876 Boy Scout Camp Rd, Mooringsport, LA 71060

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Fark-Todd (a)

Teal Glen D.

(1) Fly to an address. (2) See if it is covered by one of these flood hazard zones: High Risk Areas: A and V zones

Station

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D zone

Undetermined Risk Areas: D zone

Moderate Risk Areas: "Shaded X" zone "Shaded X" zone

No data available: Try the FEMA Map Service Center http://msc.fema.gov No flood hazard data available in Google Earth

Other information // Jurisdictions // Cross sections // FIRMs // FIRMs 2010 DigitalGlobe This information displays at an eye altitude of 10,000 feet or lower.

lat 32.700327° Ion -93.926043'

COOgle"

Eye alt 4337 ft

### Emergency Management for a Flooded Community

#### **Emergency Management has 4 Components:**

- Hazard Analysis
- Planning
- Response
- Recovery

This presentation offers resources and activities for learning about the components.

# Hazard Analysis Finding your flood risk

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### **Google Earth Activity**

http://water.weather.gov/ahps/

<u>https://hazards.fema.gov/wps/portal/mapviewer</u>

### Resources

- www.floodsmart.com
- o http://www.fema.gov/business/guide/index.shtm
- <u>http://www.nwfwmdfloodmaps.com/handouts/DHSfactSheet.pdf</u>

# Planning Minimizing risk

#### Resources

- <u>http://www.fema.gov/plan/index.shtm</u>
- <u>http://www.epa.gov/greenkit/q5\_disas.htm</u>
- <u>http://www.smartcommunities.ncat.org/disaster/disintro.shtml</u>
- <u>http://www.fema.gov/business/guide/index.shtm</u>
- <u>http://waterwatch.usgs.gov/?state=us&map\_type=flood&web\_type=map</u>

A REAL PROPERTY AND A REAL

- <u>www.ready.gov</u> with <u>www.reallyready.org</u>
- <u>http://www.nhc.noaa.gov/HAW2/english/disaster\_prevention.shtml</u> <u>http://www.fema.gov/plan/index.shtm</u>

### Activities

Obtain your area's flood plan (or develop one). An example is

<u>http://www.cityofdavenportiowa.com/egov/docs/1206019646\_714752.pdf</u>

# Response When the water hits the road

### Resources

- <u>http://www.epa.gov/naturaldisasters/flooding.html</u>
- <u>http://www.fema.gov/hazard/midwestfloods.shtm</u>
- <u>http://www.cdc.gov/niosh/topics/emres/flood.html</u>
- http://www.osha.gov/SLTC/emergencypreparedness/guides/floods.html

### Activity

Interview local emergency response coordinator.

Select a house (or for a group, select a building) for "sandbag math"

 <u>http://www.ag.ndsu.edu/pubs/ageng/safety/ae626w.htm</u> After reading and thinking, then students design and share a variety of math problems related to sandbagging the selected structures. How many different kinds of problems can they suggest?

# Recovery Things to Consider

#### Resources

- http://www.fema.gov/rebuild/recover/return.shtm
- http://www.fema.gov/hazard/flood/fl\_after.shtm
- <u>http://www.epa.gov/mold/moldguide.html</u>
- <u>http://www.bt.cdc.gov/disasters/mold/protect.asp</u>
- <u>http://www.fema.gov/assistance/index.shtm</u>
- <u>http://www.archives.gov/preservation/disaster-response/guidelines.html</u>

#### Activities

Town Hall Meeting: For student and instructor process, open this word file:

flood-emergency3\_recovery-townhallmtg\_teacherproj.doc