

### WFO Jackson Emergency Response





### Dan Byrd WFO Jackson, MS



### Background IMET Program



- Provide on-site weather forecasts and briefings for national Incidents
- Specially trained to work closely with customers
- Experienced with Incident Command System
  - Dispatched nationally to support USFS, FEMA, Coast Guard etc. Cost a lot Not new





# Local On-site Support

 Tailored after the IMET. • Geared toward public safety. • NWS Jackson can send a meteorologist to the location to support an operation. • This service is free to the county or city that requests the support.

# Types of Incidents that might require On-site support

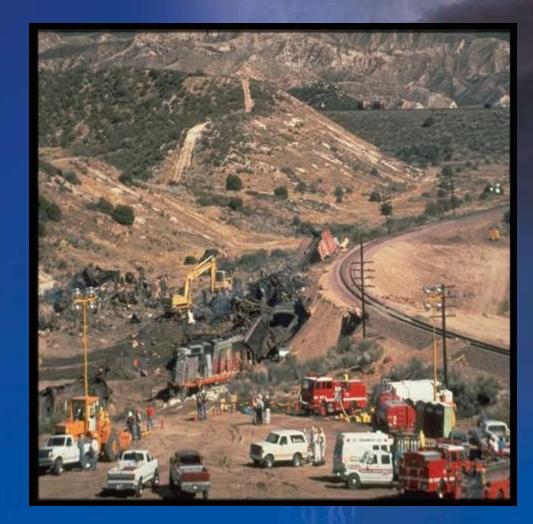
- Significant Hazmat or Terrorist activity
- Wind information important for
   evacuations



Obviously an IMET would be called for this large of a support...but an ERMET Could be used if it was smaller in scale.

# Types of Incidents that might require On-site support

 Train **Derailments** • May involve chemicals and evacuations • Wind and rain information important





Bridge Collapses
Are there storms expected?
River Levels

• Hypothermia?





### Types of Incidents that might require On-site support – Tornado recovery



Tornadoes tear through region, leveling Greensburg and leaving nine people dead



HSBURG: The town is wheel out effectormadoes blew ecross western Kanses on Friday night, teacing a wide sweth of destruction. Another line of thunderstorms Seturday spewned more tornadoes

#### Greensburg residents find a city gone, a future unknown

<text><text><text><text><text><text>

TODAY



CHSVILLE Joyce Stratord page Jerod Black after surviving a tomado F miles notific Machaville. ek and his parents. Est and Gatelak Parks, barely made 8 to their besement leafore the ternado his.

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C > PHOTO GALLERIES AND VIDEO AT KANSAS.COM

#### Survivors tell of narrow escapes, unlikely discoveries

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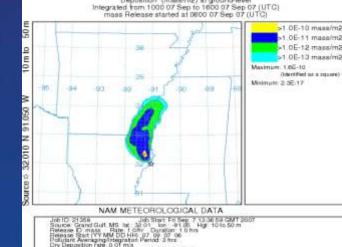




COMPLETE COVERAGE OF THE KENTUCKY DERBY.

# Types of Incidents that might require On-site support

- Nuclear power plant meltdowns
- Can provide deposition and concentration
   Rain and wind will affect impact



Website (http://www.ait.nosis.gov/ready/t

#### **Three Mile Island**



### Started with:



Can work out of our vehicle with an inverter...a chair and table.

Wouldn't be conducive for longer events... unless we Stay at a hotel.

Although being an IMET...this is where I usually sleep.





# **Started with:**

- Dedicated laptop with Wireless Internet capability
- Printer
- Dedicated cell phone
- Software including FXnet, GR2Analyst, Camed Hysplit and IEM Chat.
- Observing equipment (MK III Sensor Assembly). Data can be displayed on the laptop up to 400 feet away.
   Generator will be available.

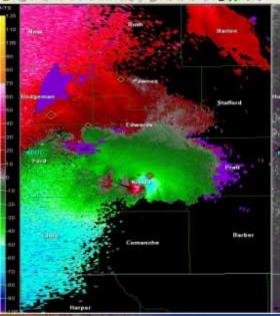




### **GR2Analyst Software**



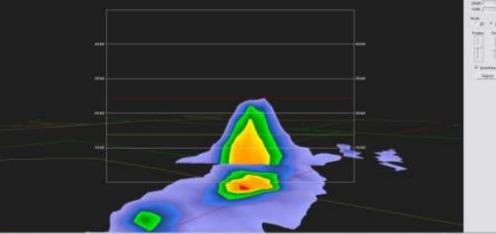
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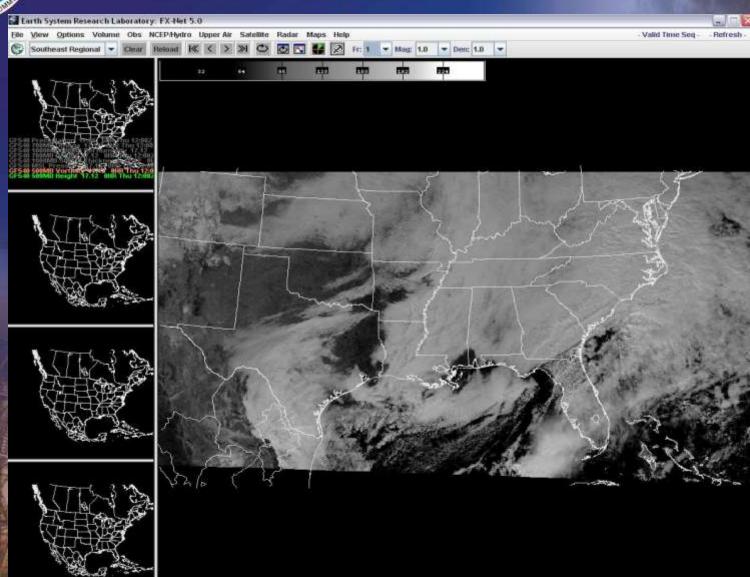
#### **Smoke Plume in Montana**

#### **Greensburg Tornado**



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East Vis Sat Thu 18:15Z 17-Jan-08 Text Refresh: Off 18:49:21 GMT

Status : E

noaa

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# **Observing Equipment**







### Upgraded in late 2008 with WFO Jackson Emergency Response Trailer...





### **Emergency Response Trailer**

- Used for exercises and shorter duration events.
- Can be used as a staging point for tornado surveys.
- Added a Wireless card to give us internet capability (Need cell coverage)
  Heated and Cooled...Somewhat!
  Dedicated Generator



### **Newest Addition**

#### **New and improved ERMet trailer**





### Upgrade!!!



• 27 feet with AC/Heat/Hot water.

- Takes some training to learn to pull it and set it up.
- We have 2 vehicles that are capable of towing the trailer.
- Does require upkeep and annual maintenance.
   Used at Sturgis.



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### **Newest Addition**

#### **New and improved ERMet trailer**



Workspace Sleeping Kitchen Shower



### **Additional Uses**

**New and improved ERMet trailer** 



After significant weather events (Think Katrina or an ice storm)
 Shower facilities
 Kitchen
 Sleeps up to 4 or so.



# Backup if needed Newton County



#### Mobile Emergency Communication Operations (MECO)



### **MECO Uses**



For extended events

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 Will have the ability to have communications (voice and internet via satellite) anywhere in our County Warning Area...This is an advantage over us... although we do have a BGAN. • Will be available on location 24/7 • Comes with sleeping, shower facilities • We have an agreement with the Newton County EM for the use of this (when available)

# On-site support in which NWS Jackson has participated Madison County/Nissan plant tornado

- exercise. (2008)
- Jones county tornado/hazardous material exercise (2009)
- Yazoo county Fair (2009)

Viking classic Golf Tournament (2009)
 Youth baseball tournament in Jones county (2009)
 Brandon Days (2008-2009)

### On-site support in which NWS Jackson has participated

- 3 Terrorist/Hazmat exercises (2008-2009)
- Grand Gulf Nuclear Power Plant exercise 2008
- Hurricane Zora and Wendy exercise (2008-2009)

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 3 years running...Sturgis Motorcycle Rally – provided on-site support for large gathering of people (2007-2009)

 1 Day Support for Hattiesburg Train Accident (2008)

Naval Meridian air show in (March 2008) Tabletop exercises.

# Madison County Exercise Nov 08



F3 Tornado hitting Nissan plant









# Jones County Exercise Aug 09



Tornado/Hazmet/ Terrorist Exercise.

Issued Exercise Tornado warnings For event.

Real-time severe Weather was also Ongoing.







## **Continuing Challenges**

AHEAD

 Getting the word out WARNING -One on one with the EM. -LEPC talks -EM Workshops **CHALLENGES** -MEMA Conference • EM doesn't think to ask for support **Currently have procedures in place on** at to do if there is a HAZMET incident. rovide initial support, then refer incident calls to either the WCM or myself.



## Known Upcoming activities



- Possible participation in Rankin County exercise...Late this month.
- Hubfest (Hattiesburg late March)
- Boy Scout campout for approx 4000 scouts in Late Apr.
- Brandon Day Festival...Early May
- May Statewide hurricane exercise (MEMA)
- Sturgis 2010 Approx 40,000...Aug
  - September– Grand Gulf Nuclear power plant exercise.
  - Viking classic Golf Tournament...Oct Yazoo/Jones county fairs...Oct Mississippi State Fair...Oct



# Some additional DSP activities



- Weekly EM briefings (Monday)
- Camtasia briefings weekly and as needed
- Continuous weather briefings during high end severe events and winter events.
- Support to the EM's for College football events: Mississippi State, Jackson State Southern Miss etc.
- In planning stages to run a WFO/EM exercise in the late spring.





### **Questions?**

### Dan.byrd@noaa.gov