

# Workshop Tasks

Group 1 – In the Sattler and Marshall (2002) study, what four experimental treatments were used?

Group 2 – In the Sattler and Marshall (2002) study, what were the key findings regarding hurricane watch graphics?

Group 3 – In the Sattler and Marshall (2002) study, what were the key findings regarding hurricane warning graphics?

Group 4 – What are the major components of a hurricane warning system?

# Findings:

## Hurricane Watch Graphics

- More Accurate – Time Prior to Landfall
- More Likely to Take Action
- More Likely to Take Situation Seriously

Source: Adapted from Sattler, David N. and Amanda L. Marshall. 2002. "Hurricane Preparedness: Improving Television Hurricane Watch and Warning Graphics." *International Journal of Mass Emergencies and Disasters* 20:41-49, p. 46.

# Findings:

## Hurricane Warning Graphics

- More Accurate – Time Prior to Landfall
- More Likely to Understand that a Warning Means to Finish Preparations
- More Likely to Understand Warning Means to Go to a Safe Location
- More Likely to Take Situation Seriously

Source: Adapted from Sattler, David N. and Amanda L. Marshall. 2002. "Hurricane Preparedness: Improving Television Hurricane Watch and Warning Graphics." *International Journal of Mass Emergencies and Disasters* 20:41-49, p. 46.

# Seven Key Warning Functions

- Detection
- Measurement
- Collation
- Interpretation
- Decision to Warn
- Message Content
- Dissemination

Source: Adapted from Mileti, Dennis S., Thomas E. Drabek and J. Eugene Haas. 1975. *Human Systems in Extreme Environments*. Boulder, Colorado: Institute of Behavioral Science, University of Colorado, p. 37.

# Exercise: 4 Disaster Events

- Group 1 – Flash Flood
- Group 2 – Tornado
- Group 3 – Hazardous Materials Incident
- Group 4 – Terrorist Attack (Anthrax)

# Integrated Disaster Warning Systems

- Perceived Threat
- Formal Warning System (7 functions: multi-agency) (detection-evaluation subsystem)
- Warning Message
- Response Subsystems (simultaneous activity clusters)
  - A. Individual
  - B. Groups (e.g., family)
  - C. Organizations (e.g., schools and private sector)
  - D. Community (e.g., emergency, political)
  - E. Extra-Community (e.g., NWS, State EM; Federal)
- Feedback Loops and Adaptive Actions