#### Disaster Imagery

Glenn Bethel
USDA Remote Sensing Advisor
December 2008

#### **USDA ESF Leadership**

- ESF- 4 Fire:
  - Dale Dague (FS)

- ESF-11, Agriculture:
  - David Urso (APHIS)

- ESF-14 Long Term Recovery:
  - Jerry Epting (FSA)

#### **USDA** Leadership

- Sheryl Maddux: Director of USDA's Homeland Security Office.
- James Redington: Director, USDA Director of Emergency Programs.



## Time Series of Mississippi Flooding June 2008 MODIS Imagery from MODIS Rapid Response System

Glenn Bethel

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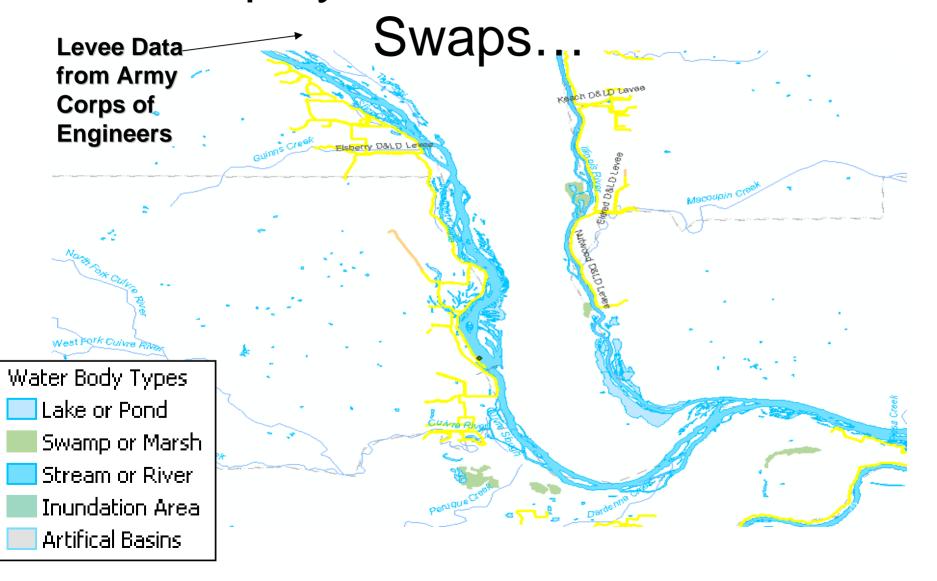




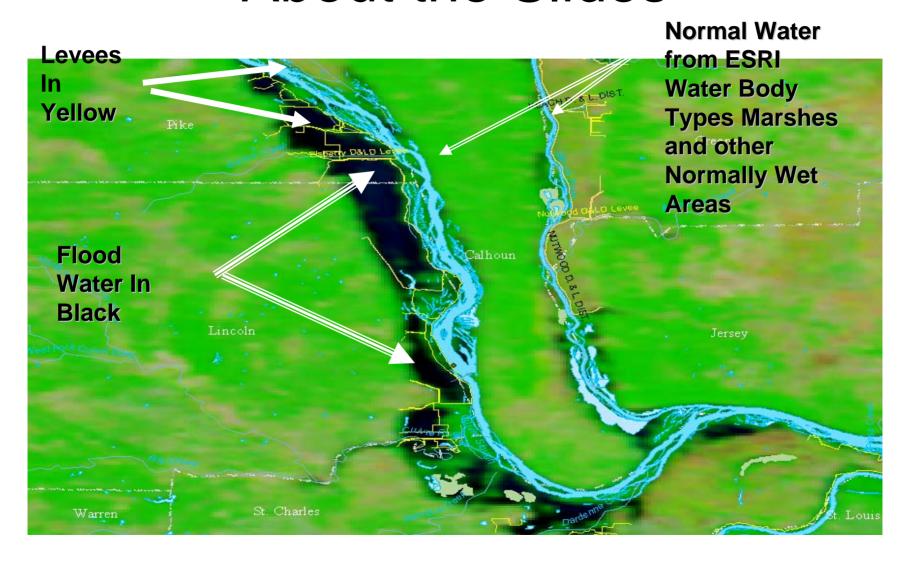




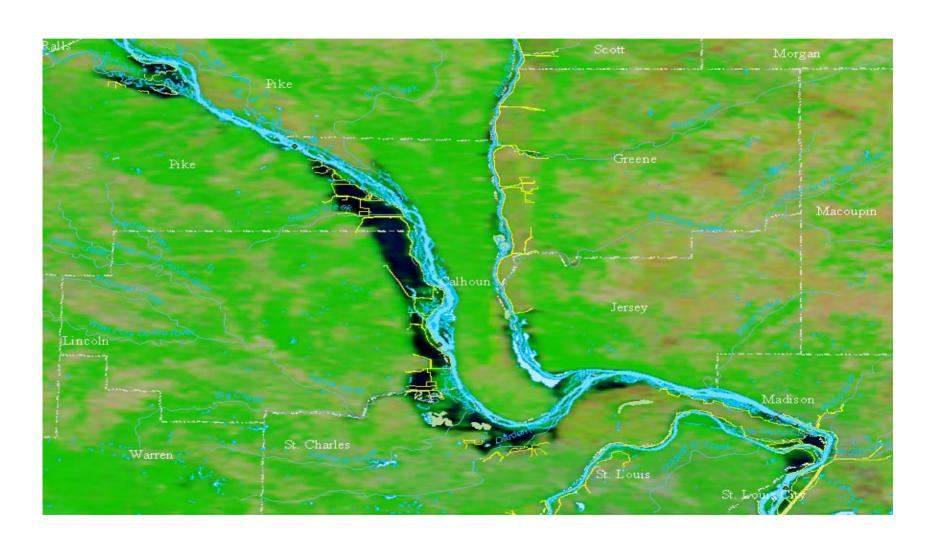
# ESRI Water Body Types Used to Display Normal Water and



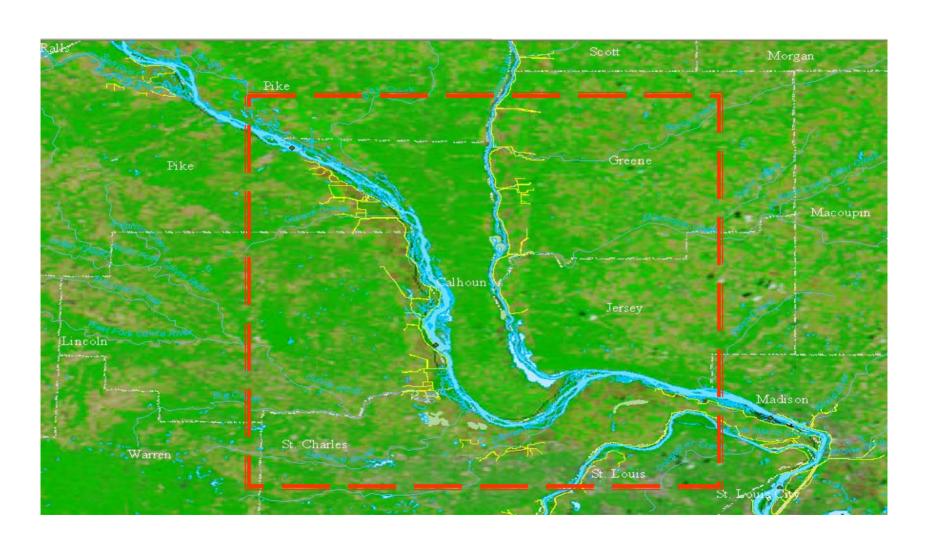
#### About the Slides



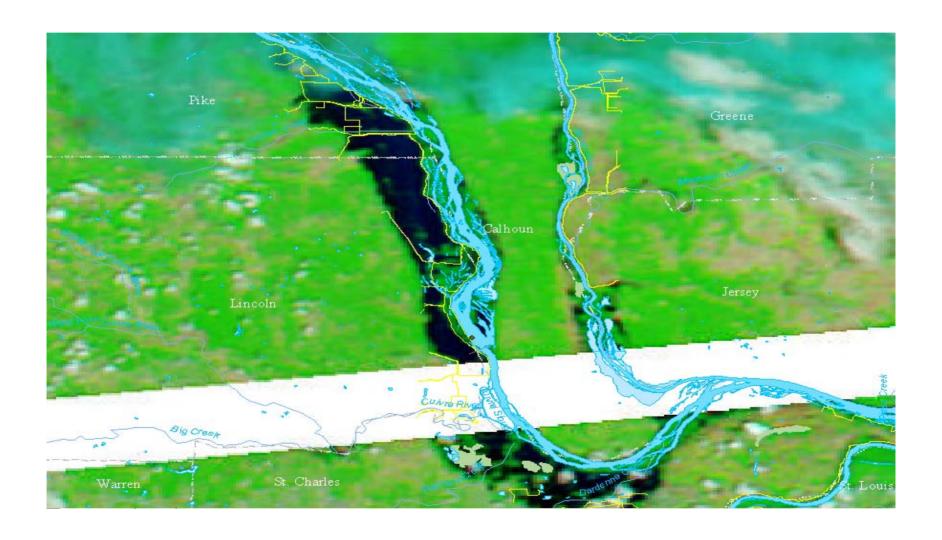
## June 21, 2008



## May 21, 2007



#### June 25



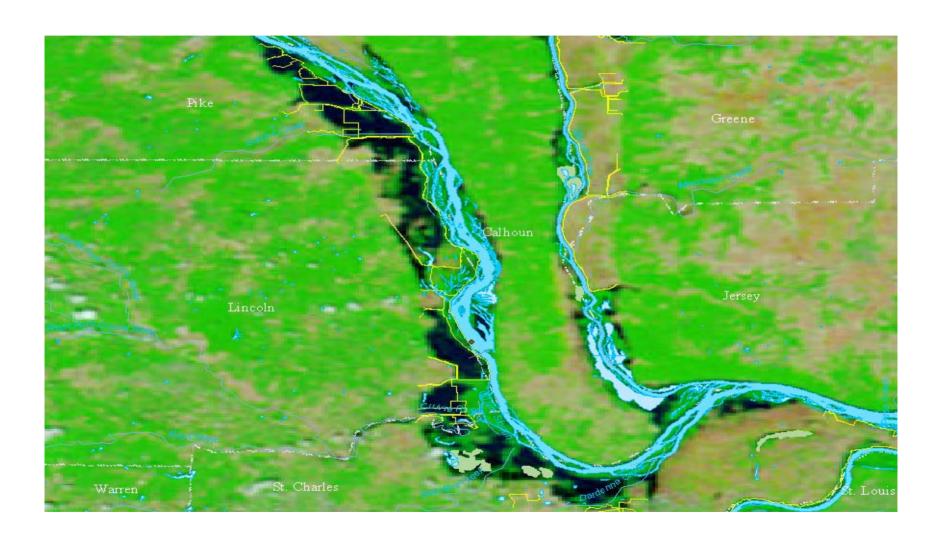
## June 23, 2008



## June 21, 2008



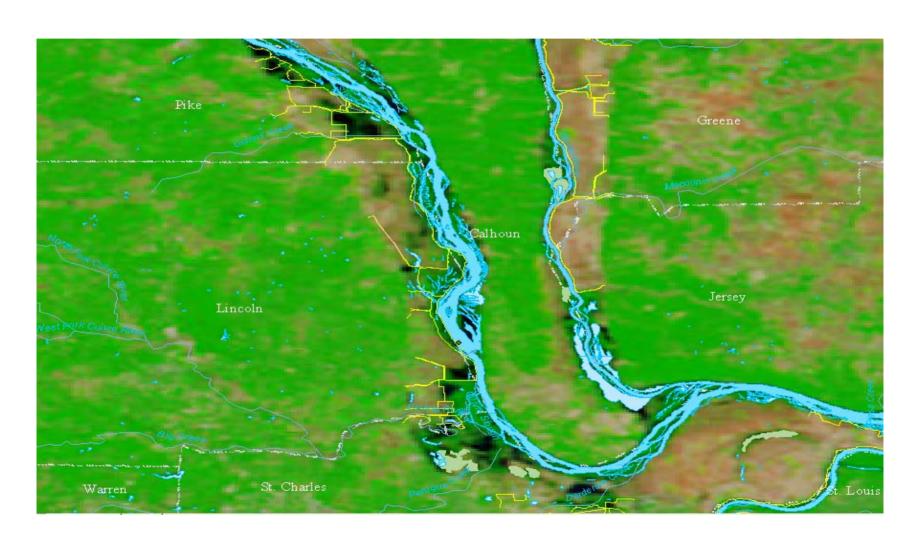
## June 19, 2008



#### June 17



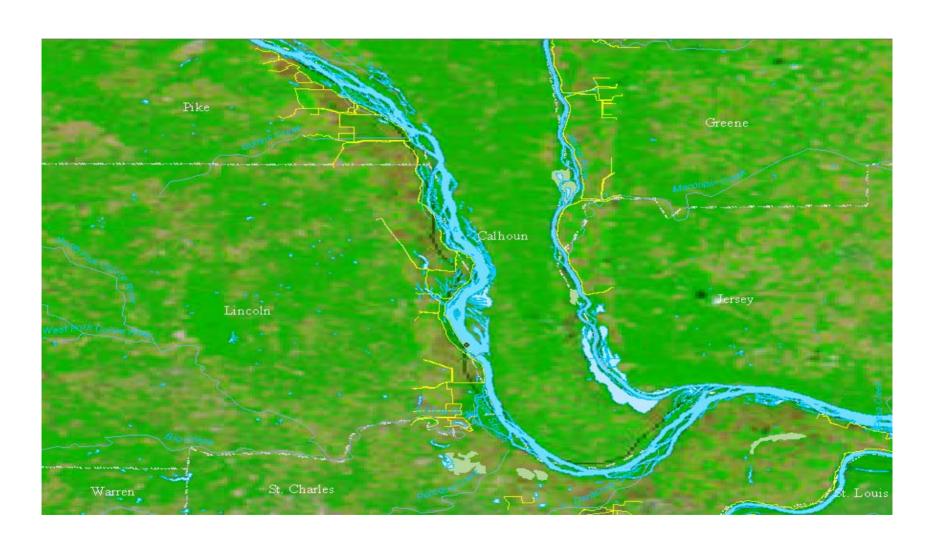
## May 21, 2008



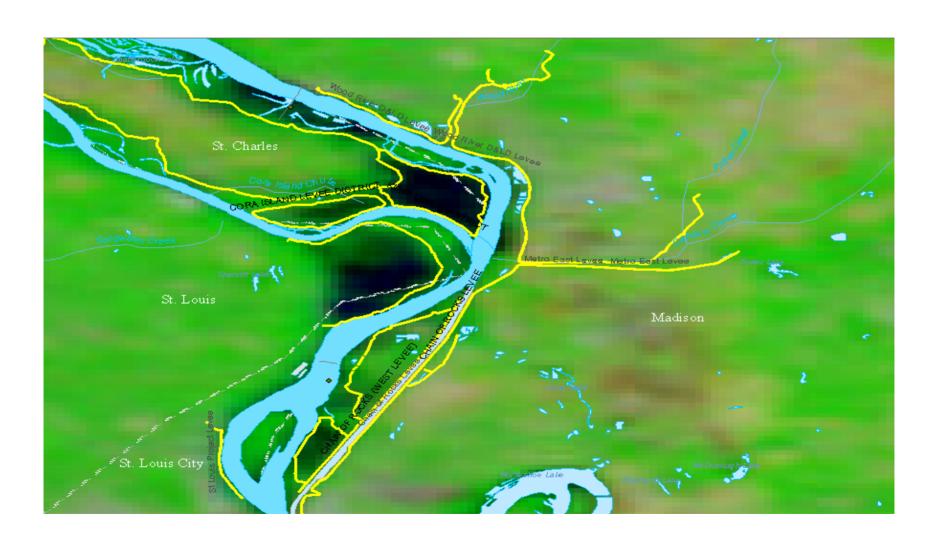
## March 20, 2008



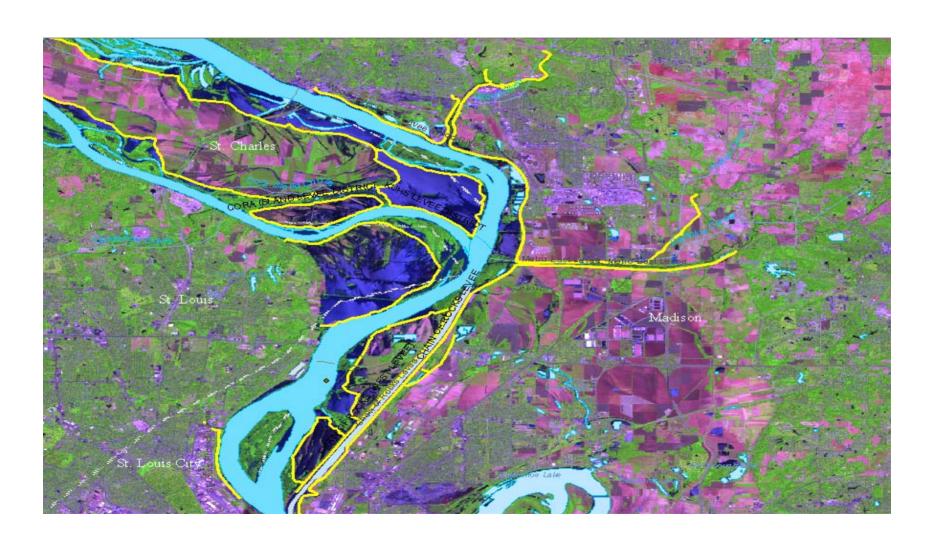
## June 12, 2007



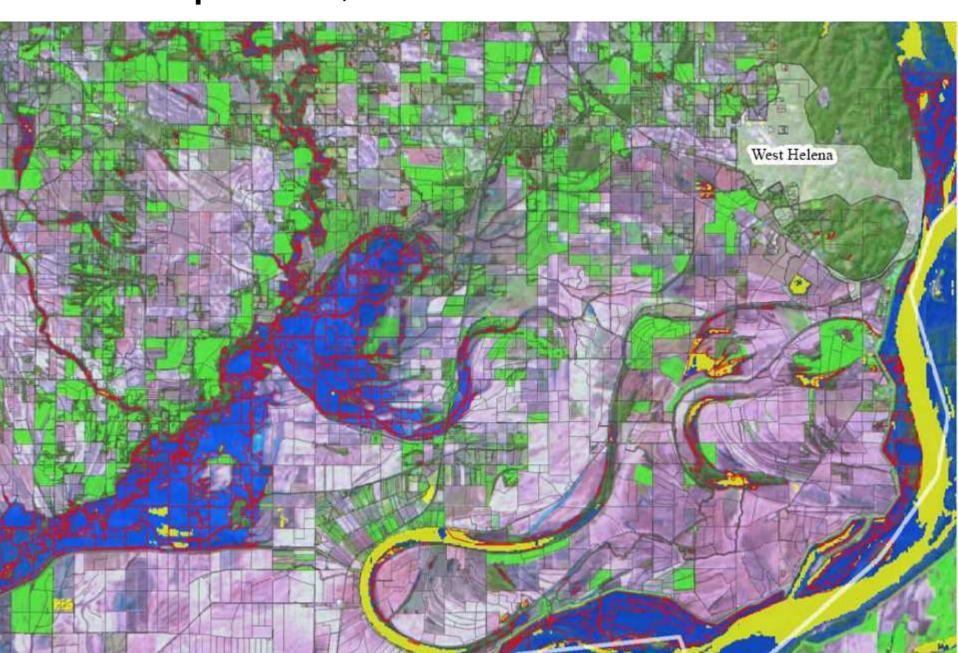
## June 23, 2008 MODIS



## June 23, 2008 SPOT

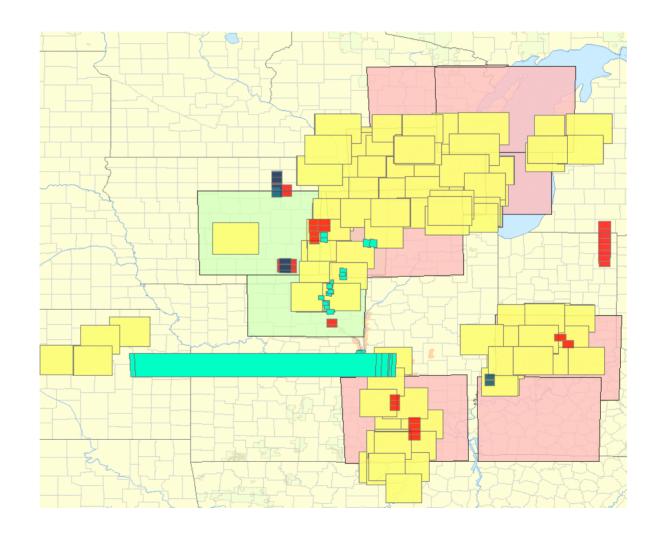


#### Phillips AR, Flooded CLUs in Red



# June 2008 Flooding: HDDS Imagery





#### July Fires: Imagery in HDDS

CA Active Perimeters (July 7)

IKONOS\_PostEvent\_Cover



WorldView\_PostEvent\_Cover



SPOT\_PostEvent\_Cover



EO1\_PostEvent\_Cover

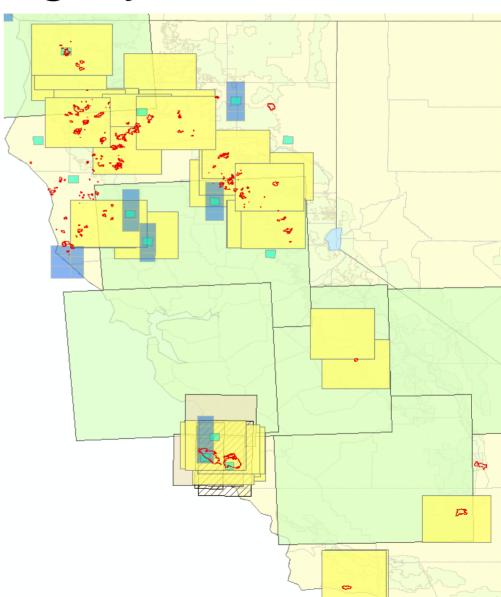


ASTER\_PostEvent\_Cover



Landsat5\_Post\_Event\_Cover





#### Dolly

PostEvent\_IKONOS\_Cover



WorldView\_PostEvent\_Cover



SPOT\_PostEvent\_Cover



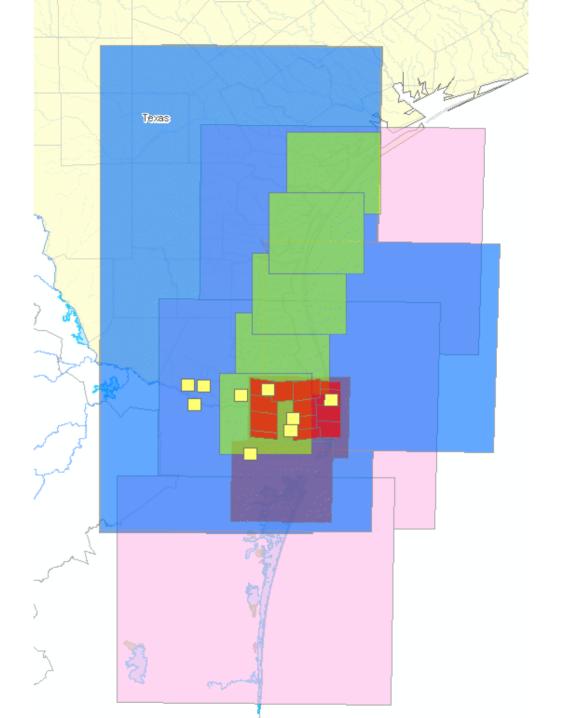
ASTER\_PostEvent\_Cover



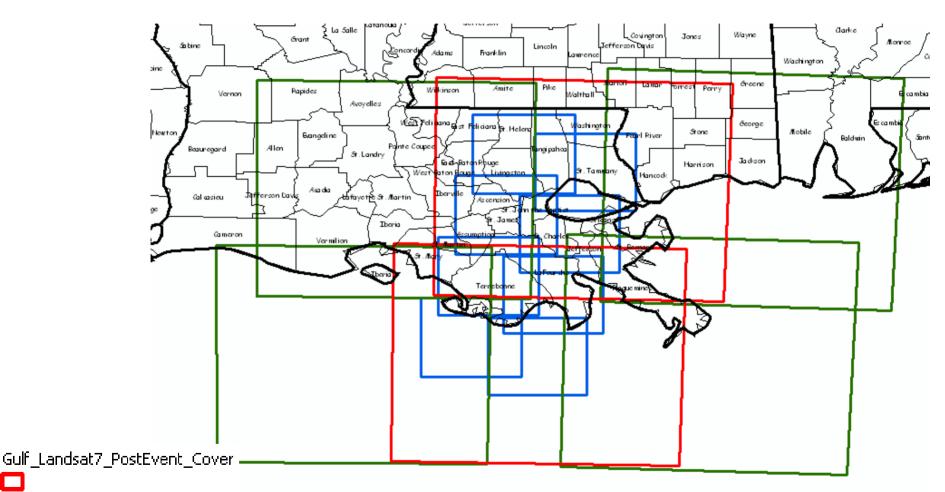
Radarsat\_PostEvent\_Cover



Landsat5\_PostEvent\_Cover



#### Post Event Gustav

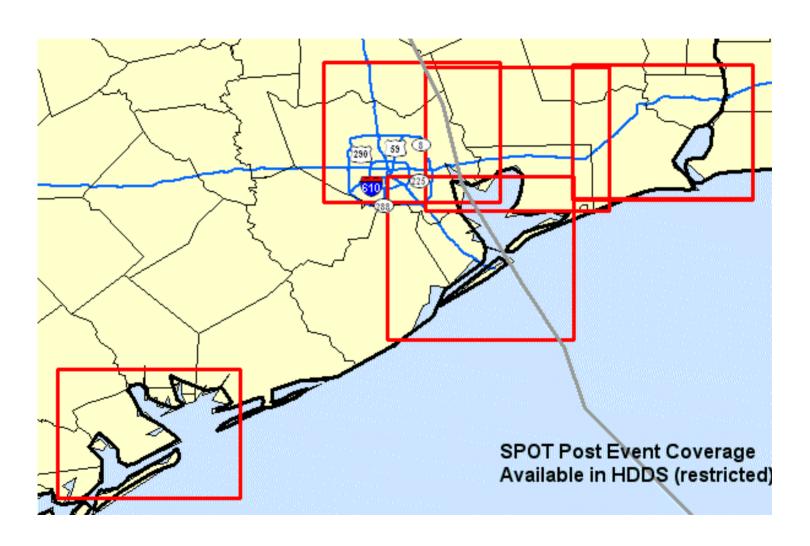


Gulf\_Landsat5\_PostEvent\_Cover

\_\_\_ ASTER\_PostEvent\_Cover

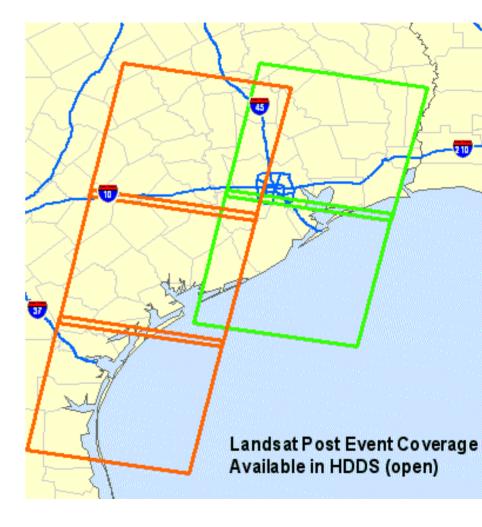


#### Spot Coverage for Ike

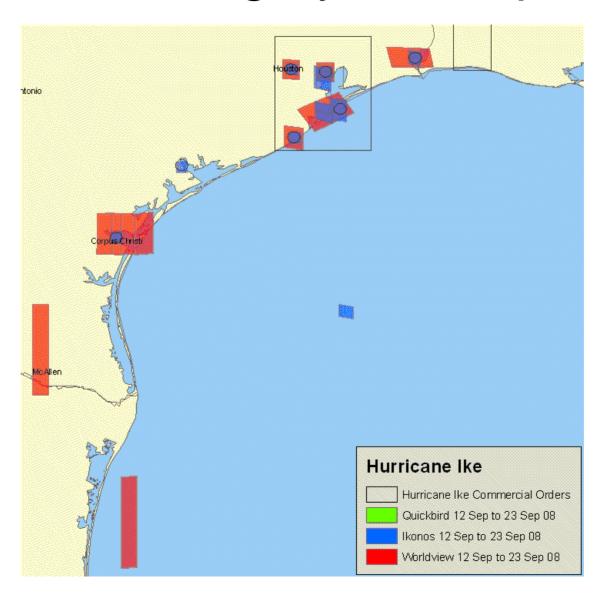


## Ikonos, World View and Landsat for Ike





#### Post Event Imagery In Warp for Ike



#### Preliminary inundation analysis developed by NOAA NWS LCH December 1, 2008

