



***GULFNet***  
**Its Benefits and Potential**

Presented by  
LSU Center for GeoInformatics

# *GULFNet*



- *GULFNet* is a network of GPS CORS operated by LSU C<sup>4</sup>G, 24/7
- CORS' positions NOAA-NGS verified
- Data freely available via Internet, savings worth \$hundreds/download.
- Supports academic research into subsidence and other phenomena
- Enables positioning in lieu of unreliable benchmarks



# *GULFNet* Availability



- From existing *GULFNet* CORS
- From additional FBN CORS (80 km)
- From future Networked RTK



# Existing *GULFNet* CORS



- Data available free of charge through NOAA
- Station quality verified daily by NOAA
- System fully operational, now
- Fits requirements of control surveys, OPUS users and post-processed mapping



# Additional FBN CORS (80 km)



- Data available free of charge
- System under constant development
- Stations will complete 80 km spacing desired by NOAA for FBN
- New CORS available upon verification by NOAA
- Fits requirements of control surveys, OPUS users and post-processed mapping



# Anticipated Network RTK Facility



- RTK Correctors provided as a free service during emergency recovery period
- Fits requirements of real-time surveys, especially beneficial to hurricane recovery and flooding mitigation along Gulf Coast.
- System requires additional hardware for closer CORS spacing (50 km).
- System requires special software to enable delivery of service
- New CORS will extend NSPS



# LSU Center for GeoInformatics



- LSU C<sup>4</sup>G Integrates science, geospatial & professional technologies to gain new knowledge about the Earth, how it changes and how man can best fit into his place on it.
- In Louisiana, "Elevation is our salvation from inundation"

