

# Keathley Canyon Mooring Program

## Project Characteristics:

- *Deepwater Mooring in Gulf of Mexico*
- *Operational, Extreme and Directional Statistics on Currents*
- *Data Processing and Analysis*

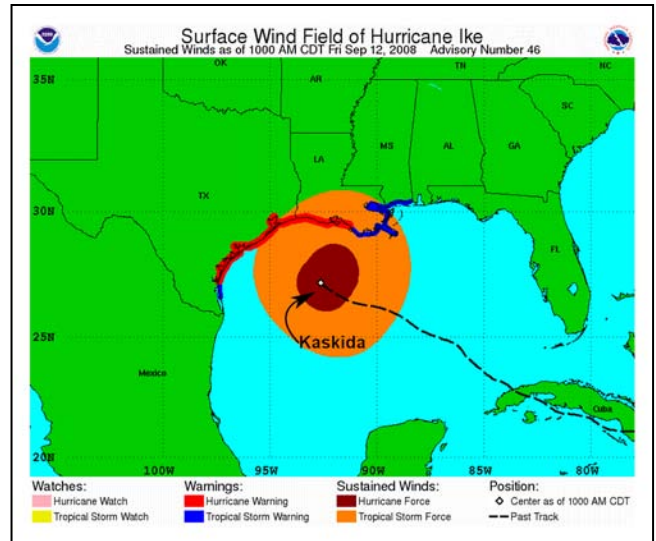
Woods Hole Group designed, built, deployed and serviced this full column current meter mooring at a site in Keathley Canyon. Data were collected for designing and planning a future producing system design at the Kaskida Prospect in the deepwater Gulf of Mexico

The measurement program ran for a 14 month period. Two mooring turn-around service visits were conducted at approximately 4 month intervals.

The instrumentation consisted of:

- One subsurface taut mooring in water depth of 1890m.
- TRDI 300kHz Workhorse ADCP profiling upward from top of mooring at 100m depth.
- TRDI 75kHz Long Ranger ADCP profiling upward from a syntactic foam buoy at 500m depth.
- Nortek Aquadopp single point current meters at 700m, 1000m, 1350m, 1590m, 1740m and 1840m.
- Dual Benthos 866-A Acoustic Releases.

The ADCP's valid data return was 100% for the entire duration of the program. Strong currents were recorded during the passage of Hurricane Ike in September 2008 (the upper figure on the right shows the path of the hurricane) and the passage of Eddy Brazos south of the mooring site in May-June 2009.



Surface Currents over Height (cm)  
NRL global NCOM g1b8\_3b  
06-05-2009 00Z analysis 0000 m

