UNH and Deepwater Horizon

http://www.eoearth.org/files/154301_154400/154389/deepwater.jpg
Deepwater Horizon/Macondo 252

20 April 2010

• 11 oil workers killed, 17 injured
• 4.9 million barrels of oil discharged over 85 days (206,000,000 gallons)
• discharge was at approx. 1500 m depth
• 1.8 million gallons of dispersants used
• 411 in situ burns
• 48,200 responders
• 9700 vessels
• 127 surveillance aircraft
• 1.16 million meters of hard boom deployed
• 2.96 million meters of soft boom deployed
18 May – White House hosts meeting of small group of academics:

- John Holdren – Presidential Science Advisor
- Sec of Interior Salizar
- EPA Admin. Jackson
- NOAA Asst. Sec for Oceans and Atmosphere- Robinson
- USGS Director McNutt, etc…

Sought help from the academic community on several topics: many related to the fate and flux of deep-sea plume
1400 m high methane plume off Mendocino
Kept away from wellhead - 20, 10, 5 nmi...
NATURAL SEEPS
Natural Seeps

seep locations derived from NOAA Ships *Gordon Gunter* and *Thomas Jefferson*, 12/18 kHz split-beam echo sounder
3-cap stack installed - 14 July 2010

Finally!
KUDOS TO NOAA BOAT DRIVERS!!!!!
Wellhead Integrity: Post-Cap Acoustic Monitoring

PC1004
1651 27 July 2010
Flange leak on Macondo 3 - cap stack
Attempt to measure calibrate acoustics with bubble size and flux measurements

http://oceanexplorer.noaa.gov/okeanos/media/exstream/exstream_04.html
Understanding Backscatter from Gas Seeps Quantifying Gas Flux in the GoM