Vessel Cruise # Daily Report Report

Period covered: 0000 hrs 06/08/2010- 2400 hrs 06/08/2010

# Vessel science party:

|  |  |  |
| --- | --- | --- |
| Name | Position | Email/Phone |
| Jon HarePaul WallineJim Burkitt\*Vince GuidaNick Mitchell\*Tamara Holzwarth-DavisBetsy BroughtonAshok DeshpandeLauren RidleyLiza BaskinDavid GravesDoug AlveyRegina EasleyChristopher Sumner | Chief ScientistAcoustic LeadAcousticsAcousticsAcousticsCTDCTDChemistry LeadChemsitryChemistry dOSMU Data ManagerSMU IHNRDA Sample RepBP/Entrix | jon.hare@noaa.govpaul.walline@noaa.govjames.w.burkitt@noaa.gvVincent.guide@noaa.govnickolas.mitchell@noaa.govtamara.holzwarth-davis@noaa.govElisabeth.broughton@noaa.govAshok.deshpande@noaa.govlauren.ridley@student.shu.edulbaskin@me.comdgraves@consolidatedsafety.comDoug.Alvey@louisberger.comreasley@mail.usf.eduCSumner@entrix.com |
| \* ships crew working on acoustics with science party |

# Daily Operations:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Y | CTD Casts | Y | Sampling – VOA |  | PAH Detection |
| Y | Fluorometry |  | GCMS |  | Biota |
|  | LISST | Y | Acoustics |  | Rototox |
| Y | Sampling – TPH |  | MOCNESS |  | Other: |
|  |

# Cruise notes:

Conducted acoustic surveys until dawn. Picked up winch rep from PISCES. Retrminated forward winch and repaired aft winch late morning to early afternoon; made two passes over wellhead; performed one CTD – dip in dO2 at 1100 m evident – water samples collected; CTD about to be deployed

Science results and preliminary interpretation:
*Acoustics*

One seep detected during 24 hour period south-southeast of well head; crossed wellhead 2x (Figure 2); acoustic signal weak but still there

#  (please attach any images at end of document)

*Fluorometry and Dissolved Oxygen results*

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| --- | --- | --- | --- | --- | --- | --- |
| Station | Lat/Lon | Position from Wellhead | DO anomaly | Fluorescence Range | Signal Depth | Comments |
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See data manager report

*Chemistry: GCMS / HAPSITE*

dO dip at 1100 m on 1 ctd cast (Figure 1)

*Microbial analysis (if applicable)*

*Other Observations*

## Operational / Logistical issues:

## Planned activities for next 24 hours:

Conduct acoustic surveys in morning

Start 24 hour ctd ops at 1200

Figure 1 – CTD 2 miles south-southeast of wellhead – small dO2 dip at ~1100

Figure 2 – Screenshots of pre and post wellhead monitoring. Acoustic return in post-feature is low relative to the pre-feature and background noise is higher post-feature than pre-feature.