Beglin, Julie A.

From: Steve Murawski [Steve.Murawski@noaa.gov]
Sent: Sunday, July 25, 2010 10:55 AM
To: Samantha Joye
Cc: Taylor, Phillip R.; Conover, David O; Robert Pavia; 'Russ Beard'
Subject: CTD Data

Attachments: O2_mean_vs_date.PNG; O2_min_vs_date.PNG; cdom_max_vs_date.PNG

O2_mean_vs ate.PNG (29 K **O2_min_vs_dc te.PNG (31 K** **cdom_max_v ate.PNG (34 I**

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regards

-Steve

Beglin, Julie A.

From: Steve Murawski [Steve.Murawski@noaa.gov]
Sent: Sunday, July 25, 2010 10:29 PM
To: Conover, David O
Cc: Taylor, Phillip R.
Subject: Re: CTD Data

she already has sent a note to the editor of Science whom she knows well. Lets see how it goes.

Steve

Conover, David O wrote:

Thanks Steve. This should help a lot. If Jane is going to call AAAS then I will hold off. Please let us know what she finds out.

David

-----Original Message-----
From: Steve Murawski [mailto:Steve.Murawski@noaa.gov]
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From: Samantha Joye [mjoye@uga.edu]
Sent: Monday, July 26, 2010 9:49 PM
To: Steve.Murawski@noaa.gov
Cc: Conover, David O; Russ.Beard@noaa.gov; Taylor, Phillip R.; danr@genwest.com; Fisher.Susan@epamail.epa.gov; Vernon Asper
Subject: Re: CTD Data

Dear Steve-

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The confidentiality agreement issue aside, there are several very serious problems with how this report and data release was handled.

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provide input on data interpretation or findings, as presented in the report.

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I would very much like to help with the development of such a comprehensive model. Of course, I would expect that all contributors be given appropriate attribution, consultation, and review as part of that process.

Best Regards-

Mandy

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Cc: Conover, David O; Russ.Beard@noaa.gov; Taylor, Phillip R.; danr@genwest.com; Fisher.Susan@epamail.epa.gov; Vernon Asper
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Sent: Tuesday, July 27, 2010 9:12 AM
To: Steve Murawski
Cc: Conover, David O; Russ.Beard@noaa.gov; Taylor, Phillip R.; danr@genwest.com; Fisher.Susan@epamail.epa.gov; Vernon Asper
Subject: Re: CTD Data

Hi Steve

Thanks very much for checking with the folks at Science. That is a big relief!

I have a post doc interviewing this afternoon (she's scheduled to be w/ me between 2:30 and 4) but I can talk after 4. Would that work?

Thanks
Mandy

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Joye Research Group Site:
http://www.marsci.uga.edu/FacultyPages/Joye/index.htm

Gulf Oil Spill Blog:
http://gulfblog.uga.edu

Beglin, Julie A.

From: Killeen, Timothy L.
Sent: Thursday, August 19, 2010 12:02 PM
To: Conover, David O
Subject: FW: For clearance: Scientists Map and Confirm Origin of Large, Underwater Hydrocarbon Plume in Gulf

David FYI – Margaret and I had agreed to compare notes: she is in Jane's office
- Tim

------ Forwarded Message
From: Margaret Spring <margaret.spring@noaa.gov>
Date: Thu, 19 Aug 2010 10:00:14 -0400
To: "Killeen, Timothy L." <tkilleen@nsf.gov>
Cc: "Lubchenco, Jane" <Jane.Lubchenco@noaa.gov>, "Murawski, Steve" <Steve.Murawski@noaa.gov>, "Gilson, Shannon" <SGilson@doc.gov>, "Peter Gage (Peter_T._Gage@who.eop.gov)" <Peter_T._Gage@who.eop.gov>, "Jerry L. Miller (Jerry_L._Miller@ostp.eop.gov)" <Jerry_L._Miller@ostp.eop.gov>
Subject: FW: For clearance: Scientists Map and Confirm Origin of Large, Underwater Hydrocarbon Plume in Gulf

Tim -

- sorry for the short notice – and not sure who to contact. We commented through the interagency process and we had some changes, but realize that we may not have given NSF heads up.

General approach is a joint press release if possible (NOAA $ supported parts of this too; shoring up that this work is consistent with JAG and Oil Budget reports) – and make changes as follows:

- recognize both NSF and NOAA funding (any other fed funds?) – NOAA had provided NRDA funding to help support
- accurately place results in context of various USG reports and sampling and characterization findings (including JAG);
- specify that oil budget included these data (ie make clear not all "new" data);
- recognize contribution of WHOI and technology in improving understanding/definition;
- include cruise date info (2 months ago); and
- include a quote from noaa (Steve Murawski):

"These findings are consistent with what we have reported about the presence of oil subsurface and provide an additional piece of the puzzle as we continue to aggressively monitor the fate of the oil. Our collaborations with Woods Hole and other academic and private research institutions are critical to ongoing response and recovery efforts."

believe our press folks are working on this in the interagency – but don't know your press contacts. Shannon, do you have the changes?

Thanks!

Margaret

Margaret Spring
Chief of Staff
National Oceanic and Atmospheric Administration

J.S. Department of Commerce
14th & Constitution Avenue NW, Room 5128
Washington, DC 20230
(202) 482-3436

From: Jane Lubchenco [mailto:Jane.Lubchenco@noaa.gov]
Sent: Wednesday, August 18, 2010 6:07 PM
To: Steve Murawski; Justin kenney; 'Margaret.Spring@noaa.gov'
Subject: FW: For clearance: Scientists Map and Confirm Origin of Large, Underwater Hydrocarbon Plume in Gulf

This was just sent from NSF through the clearance process. Did you know about NSF promoting this? (It's not been cleared yet; please consider this priviledged)

From: Strom, Shayna L.
Sent: Wednesday, August 18, 2010 4:19 PM
To: Ericsson, Sally C.; DeGolia, Alexander H.; Mertens, Richard A.; Shawcross, Paul; Abbott, Shere; Aldy, Joseph E.; Avery, Heidi E.; Baer, Kenneth S.; Bahar, Michael; Bershteyn, Boris; Bhowmik, Rachana; Boots, Michael J.; 'Brian.Martinez@usdoj.gov'; Buffa, Nicole; Cashin, Charles L.; Egan, Brian J.; Espinel, Zulima L.; Fitzpatrick, Michael A.; Geoffrey.Graber@usdoj.gov; Geoffrey.Graber@usdoj.gov'; Green, Jason G.; Greenawalt, Andrei M.; Heimbach, James T.; Hernandez, Philip M.; Higginbottom, Heather A.; James.Payne2@usdoj.gov; 'James.Payne2@usdoj.gov'; Karen.Wardzinski@usdoj.gov; 'Karen.Wardzinski@usdoj.gov'; Kimball, Astri B.; Koizumi, Kei; LaBolt, Ben; Lew, Ginger; Lew, Shoshana M. (WHO); Liebman, Jeffrey B.; Mack, Moira K.; McCarthy, Nell; Monje, Carlos A.; Papa, Jim; Phadke, Shilpa; Shapiro, Nicholas S.; Shaw, Katherine; Terrell, Louisa; Verrilli, Donald B.; Zichal, Heather R.
Subject: For clearance: Scientists Map and Confirm Origin of Large, Underwater Hydrocarbon Plume in Gulf

NSF press release for clearance. Please send comments by **7 pm today.**

Scientists Map and Confirm Origin of Large, Underwater Hydrocarbon Plume in Gulf

Plume is at least 22 miles long and more than 3,000 feet below surface

August 19, 2010

Scientists funded by the National Science Foundation (NSF) and affiliated with the Woods Hole Oceanographic Institution (WHOI) have detected a plume of hydrocarbons at least 22 miles long and more than 3,000 feet below the surface of the Gulf of Mexico, a residue of the BP Deepwater Horizon oil spill.

The 1.2-mile-wide, 650-foot-high plume of trapped hydrocarbons provides at least a partial answer to recent questions asking where all the oil has gone as surface slicks shrink and disappear.

"These results indicate that efforts to 'bookkeep' where the oil went must now include this plume in the Gulf," said Christopher Reddy, a WHOI marine geochemist and one of the authors of a paper on the results that appears in this week's issue of the journal *Science*.

The study--which was enabled by three rapid response grants from NSF's chemical oceanography program, with additional funding from the U.S. Coast Guard--confirms that a continuous plume exists "at petroleum hydrocarbon levels that are noteworthy and detectable," Reddy said.

The researchers measured distinguishing petroleum hydrocarbons in the plume and, using them as an investigative tool, determined that the source of the plume could not have been natural oil seeps but had to have come from the blown out well.

They reported that deep-sea microbes were degrading the plume relatively slowly, and that it was possible that

the plume had and will persist for some time.

"This research illustrates the value of NSF's long-term investment in state-of-the-art technology like *Sentry* so that it can be deployed not only to advance basic knowledge but also in national emergencies," said David Conover, director of NSF's Division of Ocean Sciences.

"Similarly, the NSF RAPID award program enables scientists to quickly arrive on the scene and begin rigorous study of episodic events like this oil spill."

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"The payoff occurs when peer-reviewed results like these reported today are made public," said Conover.

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WHOI President and Director Susan K. Avery praised the researchers for their "prudence and thoroughness, as they conducted an important, elegant study under difficult conditions in a timely manner."

The scientists accomplished the feat using two advanced technologies: the autonomous underwater vehicle (AUV) *Sentry* and a type of underwater mass spectrometer known as *TETHYS* (Tethered Yearlong Spectrometer).

"We've shown conclusively not only that a plume exists, but also defined its origin and near-field structure," said Richard Camilli of WHOI's Applied Ocean Physics and Engineering Department, chief scientist of the cruise and lead author of the paper.

"In June, we observed the plume migrating slowly [at about 0.17 miles per hour] southwest of the source of the blowout," said Camilli.

The researchers began tracking it about three miles from the well head and out to about 22 miles (35 kilometers)--until the approach of Hurricane Alex forced them away from the study area.

The levels and distributions of the petroleum hydrocarbons show that "the plume is not caused by natural [oil] seeps" in the Gulf of Mexico, Camilli said.

The plume has shown that the oil already "is persisting for longer periods than we would have expected," Camilli said. "Many people speculated that subsurface oil droplets were being easily biodegraded.

"We didn't find that. We found it [the oil] was still there."

Whether the plume's existence poses a significant threat to the Gulf is not yet clear, the researchers say. "We don't know how toxic it is," said Reddy, "and we don't know how it formed, or why. But knowing the size, shape, depth, and heading of this plume will be vital for answering many of these questions."

The key to the discovery and mapping of the plume was the use of the mass spectrometer TETHYS integrated into the *Sentry* AUV.

Camilli developed the mass spectrometer in close industrial partnership with Monitor Instruments Co. in Cheswick, Pa., through a grant from the National Ocean Partnership Program.

The TETHYS--which is small enough to fit within a shoebox--is capable of identifying minute quantities of petroleum and other chemical compounds in seawater instantly.

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Equipped with its advanced analytical systems, it was able to criss-cross plume boundaries continuously 19 times to help determine the trapped plume's size, shape, and composition.

This knowledge of the plume structure guided the team in collecting physical samples for further laboratory analyses using a traditional oceanographic tool, a cable-lowered water sampling system that measures conductivity, temperature, and depth (CTD).

This CTD, however, was instrumented with a TETHYS. In each case, the mass spectrometer was used to positively identify areas containing petroleum hydrocarbons.

"We achieved our results because we had a unique combination of scientific and technological skills," said Dana Yoerger, a co-principal investigator and WHOI senior scientist.

Until now, scientists had suspected the existence of a plume, but attempts to detect and measure it had been inconclusive, primarily because of inadequate sampling techniques, according to the WHOI scientists.

In previous research, Yoerger said, "investigators relied mostly on a conventional technique: vertical profiling.

"We used *Sentry* and TETHYS to scan large areas horizontally, which enabled us to target our vertical profiles more effectively. Our methods provide much better information about the size and shape of the plume."

The researchers detected a class of petroleum hydrocarbons at concentrations of more than 50 micrograms per liter.

The water samples collected at these depths had no odor of oil and were clear. "But that's not to say it isn't harmful to the environment," said Reddy.

The scientists benefited not only from new technology but older methods as well.

Contrary to previous predictions by other scientists, they found no "dead zones," regions of significant oxygen depletion within the plume where almost no fish or other marine animals could survive.

They attributed the discrepancy to a problem with more modern measuring devices that can give artificially low oxygen readings when coated by oil.

The team on *Endeavor* used an established chemical test developed in the 1880s to check the concentration of dissolved oxygen in water samples, called a Winkler titration.

Of the dozens of samples analyzed for oxygen only a few from the plume layer were below expected levels, and even these samples were only slightly depleted.

WHOI geochemist Benjamin Van Mooy, also a principal investigator of the research team, said this finding could have significant implications.

"If the oxygen data from the plume layer are telling us it isn't being rapidly consumed by microbes near the well," he said, "the hydrocarbons could persist for some time. So it is possible that oil could be transported considerable distances from the well before being degraded."

~~The NSF RAPID program, which provides grants for projects having a severe urgency and requiring quick-response~~ research on natural disasters or other unanticipated events, significantly speeded up the acceptance of the WHOI scientific proposals.

"In contrast to the usual six-to-eighteen-month lead time for standard proposals, our plume study was funded two days after the concept was proposed to NSF, and went from notification of the proposal's acceptance to boarding the *Endeavor* in two-and-a-half weeks," Reddy said.

"Very good science was done that will make a big difference," Avery said. "This cruise represents an excellent example of how non-federal research organizations can work with federal agencies and how federal agencies can

work together to respond to national disasters."

While at sea, the scientists faced unusual challenges from the extreme heat, water rationing, exposure to crude oil and its vapors, and 24-hour-a-day operations enabled by the URI crew.

Reddy said the results from this study and more samples yet to be analyzed eventually could refine recent estimates about the amount of the spilled oil that remains in the Gulf.

Camilli said he and his WHOI colleagues are considering a new research proposal to look for more plumes.

Reddy said the WHOI team members know the chemical makeup of some of the plume, but not all of it.

Gas chromatographic analyses of plume samples confirm the existence of benzene, toluene, ethybenzene, and total xylenes, together called BTEX, at concentrations in excess of 50 micrograms per liter.

"The plume is not pure oil," Camilli said. "But there are oil compounds in there."

It may be "a few months of laboratory analysis and validation," Reddy said, before they know the entire inventory of chemicals in the plume.

Other WHOI members of study team included Assistant Scientist James C. Kinsey and Research Associates Cameron P. McIntyre and Sean P. Sylva. The research team also included Michael V. Jakuba of the University of Sydney, Australia, and a graduate of the MIT/WHOI joint program in Oceanographic Engineering, and James V. Maloney of Monitor Instruments Co.

-NSF-

----- End of Forwarded Message

Beglin, Julie A.

From: Margaret Spring [margaret.spring@noaa.gov]
Sent: Thursday, August 19, 2010 12:25 PM
To: Topousis, Dana; Strom, Shayna L.; Hagginbothom, Janice E.; Sgilson@doc.gov; justin.kenney@noaa.gov; Dybas, Cheryl L.
Cc: Sieverts, Michael C.; Conover, David O; Killeen, Timothy L.; Steve Murawski (Steve.Murawski@noaa.gov); Peter Gage (Peter_T._Gage@who.eop.gov)
Subject: RE: NSF for clearance:: Scientists Map and Confirm Origin of Large, Underwater Hydrocarbon Plume in Gulf

Hi – I think I now have everyone.

I reached out to Dave Conover and Tim Killeen. Dave referred me to Cheryl Dybas, now cc'd here.

The request is for a joint press release which is the most urgent re Unified USG position – we also sent a quote from Dr. Murawski (NOAA) - below.

The release itself is still at WH. NOAA requested changes as follows:

- recognize both NSF and NOAA funding– NOAA had provided NRDA funding to help support

-accurately place results in context of various USG reports and sampling and characterization findings (including JAG);

- specify that oil budget included these data

-recognize contribution of WHOI and technology in improving understanding/definition;

- include cruise date (cruise was 2 months ago); and

-include a quote from noaa (Dr. Steve Murawski): - he will be at Presscon

"These findings are consistent with what we have reported about the presence of oil subsurface and provide an additional piece of the puzzle as we continue to aggressively monitor the fate of the oil. Our collaborations with Woods Hole and other academic and private research institutions are critical to ongoing response and recovery efforts."

This is all I know. I was hoping all the press people could work out the wording through WH review?

Thanks.

Margaret

Margaret Spring
Chief of Staff
National Oceanic and Atmospheric Administration
U.S. Department of Commerce
14th & Constitution Avenue NW, Room 5128
Washington, DC 20230
(202) 482-3436

From: Topousis, Dana [mailto:dtopousi@nsf.gov]
Sent: Thursday, August 19, 2010 12:16 PM
To: Strom, Shayna L.; Hagginbothom, Janice E.; Margaret Spring; Sgilson@doc.gov; justin.kenney@noaa.gov
Cc: Sieverts, Michael C.
Subject: RE: NSF for clearance:: Scientists Map and Confirm Origin of Large, Underwater Hydrocarbon Plume in Gulf

have not heard from anyone, so would appreciate an update.
Dana

From: Strom, Shayna L. [mailto:Shayna_L._Strom@omb.eop.gov]
Sent: Thursday, August 19, 2010 11:57 AM
To: Hagginbothom, Janice E.; Margaret Spring; 'Sgilson@doc.gov'; 'justin.kenney@noaa.gov'
Cc: Topousis, Dana; Sieverts, Michael C.
Subject: RE: NSF for clearance:: Scientists Map and Confirm Origin of Large, Underwater Hydrocarbon Plume in Gulf

Hi Janice,

With this email, I'm looping you in with Margaret, Justin, and Shannon.

Thanks so much,
Shayna

From: Hagginbothom, Janice E. [mailto:jhagginb@nsf.gov]
Sent: Thursday, August 19, 2010 11:54 AM
To: Strom, Shayna L.
Cc: Topousis, Dana; Sieverts, Michael C.
Subject: RE: NSF for clearance:: Scientists Map and Confirm Origin of Large, Underwater Hydrocarbon Plume in Gulf
Importance: High

Shayna,

Dana needs to weigh in here. I have not heard from NOAA.

Janice

From: Strom, Shayna L. [mailto:Shayna_L._Strom@omb.eop.gov]
Sent: Thursday, August 19, 2010 11:19 AM
To: Hagginbothom, Janice E.
Subject: RE: NSF for clearance:: Scientists Map and Confirm Origin of Large, Underwater Hydrocarbon Plume in Gulf

Janice, have folks from NOAA reached out to you? I want to make sure this is actually getting sorted out; I know that the deadline is approaching.

From: Hagginbothom, Janice E. [mailto:jhagginb@nsf.gov]
Sent: Wednesday, August 18, 2010 6:08 PM
To: Strom, Shayna L.
Cc: Topousis, Dana; Sieverts, Michael C.; Kariampuzha, Irene
Subject: RE: NSF for clearance:: Scientists Map and Confirm Origin of Large, Underwater Hydrocarbon Plume in Gulf

Hello Shayna,

In general, we've been following OMB's clearance guidance which is attached here. This guidance allows a two hour clearance window. No response within the window is interpreted as approval.

Our deadline for getting this one out is 2 PM tomorrow, Thursday (August 19).

Janice

From: Strom, Shayna L. [mailto:Shayna_L._Strom@omb.eop.gov]
Sent: Wednesday, August 18, 2010 5:51 PM
To: Hagginbothom, Janice E.
Subject: RE: NSF for clearance:: Scientists Map and Confirm Origin of Large, Underwater Hydrocarbon Plume in Gulf

Janice, I have been receiving quite a number of comments on your release. When is your deadline for getting it out? It will be hard for us to clear it today, given the number of agencies that have equities involved.

From: Hagginbothom, Janice E. [mailto:jhagginb@nsf.gov]
Sent: Wednesday, August 18, 2010 3:37 PM
To: FN-OMB-DeepWater
Cc: Kariampuzha, Irene; Shawcross, Paul; Rubenstein, Martha A.; Sieverts, Michael C.; Topousis, Dana; Nesbit, Jeffrey A
Subject: NSF for clearance:: Scientists Map and Confirm Origin of Large, Underwater Hydrocarbon Plume in Gulf

Here's an NSF press release for your clearance.

Let us know if you need any further information.

Janice Hagginbothom

Branch Chief, Program Analysis

Budget Division

National Science Foundation

703-292-8260

Scientists Map and Confirm Origin of Large, Underwater Hydrocarbon Plume in Gulf

Plume is at least 22 miles long and more than 3,000 feet below surface

August 19, 2010

Scientists funded by the National Science Foundation (NSF) and affiliated with the Woods Hole Oceanographic Institution (WHOI) have detected a plume of hydrocarbons at least 22 miles long and more than 3,000 feet below the surface of the Gulf of Mexico, a residue of the BP Deepwater Horizon oil spill.

The 1.2-mile-wide, 650-foot-high plume of trapped hydrocarbons provides at least a partial answer to recent questions asking where all the oil has gone as surface slicks shrink and disappear.

"These results indicate that efforts to 'bookkeep' where the oil went must now include this plume in the Gulf," said Christopher Reddy, a WHOI marine geochemist and one of the authors of a paper on the results that appears in this week's issue of the journal *Science*.

The study--which was enabled by three rapid response grants from NSF's chemical oceanography program, with additional funding from the U.S. Coast Guard--confirms that a continuous plume exists "at petroleum hydrocarbon levels that are noteworthy and detectable," Reddy said.

The researchers measured distinguishing petroleum hydrocarbons in the plume and, using them as an investigative tool, determined that the source of the plume could not have been natural oil seeps but had to have come from the blown out well.

They reported that deep-sea microbes were degrading the plume relatively slowly, and that it was possible that the plume had and will persist for some time.

"This research illustrates the value of NSF's long-term investment in state-of-the-art technology like *Sentry* so that it can be deployed not only to advance basic knowledge but also in national emergencies," said David Conover, director of NSF's Division of Ocean Sciences.

"Similarly, the NSF RAPID award program enables scientists to quickly arrive on the scene and begin rigorous study of episodic events like this oil spill."

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The scientists accomplished the feat using two advanced technologies: the autonomous underwater vehicle (AUV) *Sentry* and a type of underwater mass spectrometer known as *TETHYS* (Tethered Yearlong Spectrometer).

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-NSF-

Beglin, Julie A.

From: OAR Platform Coordinator [OAR.Platform.Coordinator@noaa.gov]
Sent: Thursday, September 09, 2010 3:57 PM
To: Conover, David O
Subject: NSF Grant Scientists for Deepwater Horizon Project

David,

I work for NOAA and was given your name as the main contact for NSF Rapid Rewards grants. I have just been tasked with finding 15 scientists to go out on a cruise in the Gulf of Mexico for Deepwater Horizon oil research on the NOAA Ship Ronald H. Brown.
My leadership said that you would be able to provide me with a list of academics who have these grants and might be able to work on a ship project. The focus of this mission is sediments, oil in the sediments, and the fate of the oil from the oil spill. So, the scientists would need to have specialties or interests in htese areas. There is a chief scientist, so the NSF-identified scientists would have to follow the missions that the chief scientist directed to work on. More details on project requirements are due out in the next couple of days.

The cruise will be departing from Charleston SC on Sep 18 heading to Gulf and ending in Pensacola, FL (or some other NE Gulf port) on Oct 9 (three weeks).

Please call me as soon as you are able so we can discuss this project, as it is on a short turnaround.

Thank you for your assistance with this request to aid in the national priorities of DWH response and monitoring.

Sincerely,
CDR Alexandra Von Saunder, NOAA
NOAA-OAR Platform Coordinator
Silver Spring, MD
301-734-1194

Beglin, Julie A.

From: Conover, David O
Sent: Thursday, September 09, 2010 5:38 PM
To: OAR Platform Coordinator
Subject: RE: NSF Grant Scientists for Deepwater Horizon Project

Attachments: NSF_Oil spill RAPIDs_8.27.10.xlsx; master list - subsurface email list.xlsx

NSF_Oil spill RAPIDs_8.27.10.xlsx **master list - subsurface ema**

Dear CDR Alexandra Von Saunder,

In the attached files are two lists with email addresses. One is a list of all NSF RAPIDS awardees. The other is a list of all attendees at the three outreach workshops for academic scientists that were held last week by UAF. I would start with the RAPIDS list first because there are a lot of cross over between the two lists and not all attendees at the workshops were academic scientists (agency people were there too).

These two lists should put you in direct contact with most of the academic scientists (and their students) actively engaged in DWH research. I suggest you email them directly.

Please let me know if I can be of further assistance.

David

David O. Conover, Director
Division of Ocean Sciences
National Science Foundation
4201 Wilson Blvd.
Arlington, VA 22230 U.S.A.
+1-703-292-8580
dconover@nsf.gov

-----Original Message-----
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Sincerely,

CDR Alexandra Von Saunder, NOAA
NOAA-OAR Platform Coordinator
Silver Spring, MD
301-734-1194

+1-703-292-8580
dconover@nsf.gov

-----Original Message-----
From: Samuel Walker [mailto:Sam.Walker@noaa.gov]
Sent: Monday, August 16, 2010 2:21 AM
To: Steve Murawski
Cc: Coleman.Sam@epamail.epa.gov; Tulis.Dana@epamail.epa.gov; Sonich-Mullin.Cynthia@epamail.epa.gov; Conover, David O; Keehner.Denise@epamail.epa.gov; Hill.Franklin@epamail.epa.gov; Roberta Runge; Taylor, Phillip R.; Marcia K McNutt; James Kendall; Robert Haddad; William Conner; David Kennedy; Miller, Jerry L.; Margaret Spring; Dawn L Lavoie; Sonya A Jones; Gelb.Nanci@epamail.epa.gov; HHS DEEPWATER SUPPORT (HHS); 'Roger.L.Parsons@uscg.mil'; Charlie Henry
Subject: Re: Call Tomorrow am - NIC Directive

All-

In preparation for the discussion Monday morning please find the following documents attached:

1. Draft implementation plan document (note some elements still under development).
2. Memo highlighting outstanding implementation plan development tasks 3. Memo indicating current status of implementation planning.

The Environmental Unit has worked very hard over the weekend to prepare for implementation and execution of the directive. These documents reflect the work of numerous federal and state agencies.

V/r
Sam Walker

Steve Murawski wrote:
> All,
>
> Thanks for joining the call tomorrow at 10:00. Call in information is
> below. I think it is imperative that we set the scope and scale of
> the program and give clear direction on the expectation for the draft
> strategic plan due on Wednesday.
>
> Proposed Agenda:
>
> (1) Intros and establishment of executive oversight for the project -
> all
> (2) walk through of the NIC tasking and discussion of the scope and
> scale of the program -- want are the specific objectives/questions
> being asked and answered by this program - Murawski/Parsons
> (3) specific sampling variables being assessed - All
> (4) Involvement of academics and states in the strategic plan and
> execution - All
> (5) Involvement of the states in execution
> (6) Report on progress on the project strat plan by the Environmental
> Unit in Houma (additional staffing needed?) - Sam Walker
> (7) other issues
>
>
> talk to you all tomorrow
>
> Steve Murawski
>>
>> 10:00-11:00 EDT
>> 866-541-5861
>> pass code 2828075#
>>

>> I'll send along an agenda this weekend but please be thinking about:
>>
>> (1) scope of the sampling program (what variables are to be measured)
>> (2) scale of the sampling program (spatial extent, intensity and
>> frequency of observation)
>> (3) program management team and options
>> (4) assets and budget development
>> (5) involvement of academics in the planning and execution.
>> Steve

--
Samuel P. Walker, PhD
Senior Technical Data Manager
NOAA Integrated Ocean Observing System (IOOS) Program 1100 Wayne Avenue, Suite 1225 Silver Spring, MD 20910
301.427.2450 - office
301.427.2073 - fax
803.807.1189 - mobile
sam.walker@noaa.gov
http://ioos.gov

Beglin, Julie A.

From: Steve Murawski [Steve.Murawski@noaa.gov]
Sent: Friday, August 13, 2010 2:33 PM
To: Taylor, Phillip R.
Cc: Conover, David O
Subject: Re: Oil Spill Meeting next week....

Thanks Phil,

This is very helpful. As soon as we get the Tasking we can get going. Also, we are going to reach out to the team of CSs that are running your two ship strategy.

Steve

Phil Taylor wrote:

Steve,

I've put the following together for you based on your discussions with Dave on an oil spill meeting for next week.

We suggest the following names from the attached list (with emails), given the purpose of the planned 60-day intense monitoring/sampling. This includes two modelers.

Edward Adams, MIT
Vernon Asper, U So Miss
Rick Camilli, WHOI
Mandy Joye, U Georgia
John Kessler, Texas A&M
Tamay Ozgokmen, U Miami
Chris Reddy, WHOI

I suspect Asper and Joye will be at sea, or preparing for it.

Additionally,
Steve Holbrook, U Wyoming: steveh@uwyo.edu
Steve Lohrenz at U So Miss if Vernon Asper cannot be there:
steven.lohrenz@usm.edu

We attach for the first seven folks, the abstracts of their NSF RAPIDs so you can see what they have been doing re: DWH from NSF.
This you may or may not need. Many are involved with other agency support as

well.

Also attach a white paper by Holbrook on the concept of seismic detection of oil in the water column.

Hope this is helpful..

Phil

****
Phillip R. Taylor
Head, Ocean Section (Biological, Chemical and Physical Oceanography)

Division of Ocean Sciences
National Science Foundation
4201 Wilson Blvd., Suite 725
Arlington, Virginia, USA 22230
703-292-8580, fax: 703-292-9085
prtaylor@nsf.gov

Beglin, Julie A.

From: Dybas, Cheryl L.
Sent: Friday, August 27, 2010 1:23 PM
To: Taylor, Phillip R.; Conover, David O; Garrison, David L.; Rice, Donald L.
Subject: FW: more on this new plume...??

Importance: High

-----Original Message-----
From: Scott Smullen [mailto:Scott.Smullen@noaa.gov]
Sent: Friday, August 27, 2010 1:18 PM
To: Dybas, Cheryl L.
Subject: Re: [Fwd: Subsurface Findings from R/V Cape Hatteras?]

This is the one they're on now. But maybe no longer your cruise?

R.V. Cape Hatteras

Deepwater Horizon Spill Investigations

Important Dates:

Depart: 21 Aug. 2010 (Gulfport, Mississippi)

Port Call: 3 Sept. 2010 (Gulfport, Mississippi)

Return: 16 Sept. 2010 (Gulfport, Mississippi)

Chief Scientist:Tracy Villareal

General operational approach

This cruise was re-tasked from an NSF funded project that was examining
N2 fixation in the Gulf of Mexico. We will still be collecting some relevant data, but have included much additional work to examine both surface and deep manifestations of the spill. The R.V. /Cape Hatteras/ will be the survey vessel, while the R.V. /Oceanus/ will be conducting process studies. We have only formally outlined the first half of the cruise. At the mid-cruise port call, we will get together with the /Oceanus/ and outline the second half of the trip. I have put a general list of station measurements below. If you have something to add, please let me know. We will have a set of 23 10-L niskins for sampling on the CTD.

OPERATIONS:

Dept. Gulfport, 21 August 2010

Steam to Station 1 via WP 1, 2, 3 conducting sampling with ship's underway system (as permitted by the presence of oil). This will include the 12 kHz Chirp and discrete samples for nutrients, flow cytometric analysis of nanoplankton and fast rapid rate fluorometry. If the underway system cannot be used, we can default to bucket sampling or an improvised sampling method. Should the CTD be configured and ready to operate with the nitrate, oxygen, methane and pH sensors, we would conduct a test deployment at WP2 (only if no visible oil sheen was present). A continuous plankton recorder will

be deployed at WP1 and towed until Sta. 8, thence back to WP2.

Stations 1-8 Farfield operations

Shallow cast 0-200 m.

Deep casts (2) 0-bottom

To be measured (list will be shortened at selected stations)

-size fractionated chlorophyll, phytoplankton counts, nutrients, zooplankton and phytoplankton net tows, Sargassum collections (as present), FRRF, pH, oxygen, particulate isotopes, N2 fixation (as diel cycle permits), methane, hydrocarbons, PAM microscopy.

The exact locations of Sta. 1-8 are dictated by mesoscale features and SSH/SST gradients (see the figure below). They will likely change as the cruise dates approach and may change at sea depending on information provided to us by shore-based colleagues with access to real-time information. This will take us about a week to do and will require sampling around the clock on station.

<http://web.me.com/tv951100/spill/cruise_plan_files/28%20July%20image_1.jpg>

Approximate station location for first 8 days. Color is sea surface height as of 28 July 2010.

After Station 8. Begin Nearfield operations. Deadhead to WP 2 doing underway sampling as per prior to Station 1. At WP 2, we will commence mapping of the deep plume using the 12 kHz system coupled with deep casts. We will stay outside the 15 nautical mile limit so as to avoid acoustic interference by the chirp system to ongoing operations at the wellhead. Deep casts will collect a subset of the Sta. 1-8 measures and will be determined based on station density. The area to be surveyed is approximately a 50 mile radius around the well head. The grid will depend on how effective the 12 kHz is in locating plumes. We may have to abandon this and define the plume using multiple CTD casts. WP 4 marks the SE terminus of the mapping. The day to day schedule in this area will be detemined as the data stream comes in. It should be interesting.

>
> -----Original Message-----
> From: Scott Smullen [mailto:Scott.Smullen@noaa.gov]
> Sent: Friday, August 27, 2010 1:03 PM
> To: Dybas, Cheryl L.
> Subject: Re: [Fwd: Subsurface Findings from R/V Cape Hatteras?]
>
> When I read it, it doesn't seem to be the same cruise...
>
> Dybas, Cheryl L. wrote:
>
>> We did do a news release on it at the time; it was the first NSF Gulf
>> oil spill RAPID grant awarded:
>> http://www.nsf.gov/news/news_summ.jsp?cntn_id=116993 . If any other
>> information, will send...
>>
>> -----Original Message-----

>> From: Scott Smullen [mailto:Scott.Smullen@noaa.gov]
>> Sent: Friday, August 27, 2010 12:53 PM
>> To: Dybas, Cheryl L.
>> Subject: Re: [Fwd: Subsurface Findings from R/V Cape Hatteras?]
>>
>> I think this is the cruise...
>>
>> ...The R/V CAPE HATTERAS
>> sailed Morehead City, NC at 1815, 05 June 2010. I anticipate their
>> current ETA Gulfport, MS to be PM / 11 June 2010, weather dependent.
>> The PI on our GOM cruise is John Kessler from Texas A&M University.
>> This is a NSF funded rapid response cruise under grant number
>>
> 1042650/NSF/OCE.
>
>> Dr. Kessler requested 12 days, (8 science, 2 mobilization, 1 transit
>> (on and off site) and 1 demobilization). I will follow-up on the PI's
>> desired "work" location.
>> http://www.nsf.gov/news/news_summ.jsp?cntn_id=116993
>>
>>
>> Dybas, Cheryl L. wrote:
>>
>>
>>> Scott,
>>>
>>> Am checking on whom we have out there now, aboard which vessel(s),
>>> and
>>>
>>>
>>
>>
>>> will be back to you on asap,
>>>
>>> Cheryl
>>>
>>> -----Original Message-----
>>> From: Scott Smullen [mailto:Scott.Smullen@noaa.gov]
>>> Sent: Friday, August 27, 2010 12:37 PM
>>> To: Dybas, Cheryl L.
>>> Subject: [Fwd: Subsurface Findings from R/V Cape Hatteras?]
>>>
>>> Cheryl,
>>> Did NSF fund this June cruise of the R/V Cape Hatteras? Have you
>>> promoted the results? The National Incident Command is being asked
>>> for comment by a French TV crew and the NIC came to us on an email
>>> to
>>>
>
>
>>> find out more... but I think it's your cruise. "Just found out"
>>> seems
>>>
>>>
>>

>>
>>> to be inaccurate... I think this was a June cruise.
>>>
>>> The National Science Foundation working on the R/V Capateras we were
>>> following just found out what could be a underwater hydrocarbon
>>> plume
>>>
>
>

>>> in the Gulf of 186 miles long and 55 miles large. We have filmed the
>>> entire process and the discovery. We also have interviews of
>>> scientists explaining the major role of dispersant in this situation.
>>>
>>>
>>>
>>>
>>> -------- Original Message --------
>>> Subject: Subsurface Findings from R/V Cape Hatteras?
>>> Date: Fri, 27 Aug 2010 09:13:56 -0700
>>> From: Jennifer Austin <Jennifer.Austin@noaa.gov>
>>> To: dwh.staff@noaa.gov <dwh.staff@noaa.gov>, sam.walker@noaa.gov
>>> <Sam.Walker@noaa.gov>, Lisa Symons <Lisa.Symons@noaa.gov>
>>> CC: Rachel Wilhelm <Rachel.Wilhelm@noaa.gov>, "Smullen, Scott"
>>> <Scott.Smullen@noaa.gov>
>>>
>>>
>>>
>>> Hi Sam and DWH team,
>>>
>>>
>>>
>>> What do we know about findings from the R/V Cape Hatteras? Anything
>>> recently? Are they part of the subsurface monitoring fleet ? Or
>>> where
>>>
>>>
>>
>>
>>> they ever?
>>>
>>>
>>>
>>> A French TV station is asking about reports that they have found a
>>> plume
>>>
>>> 185 miles long and 50 miles wide.
>>>
>>> He is asking for Admiral Allen to react. Just trying to track down
>>> if
>>>
>>>
>>
>>
>>> we have any association, or intel.
>>>
>>>
>>>
>>> Thanks, Jen
>>>
>>>
>>>
>>>
>>>
>>>

>>>
>>>
>>>
>>>
>>>
>> --
>> Scott Smullen
>> Deputy Director
>> NOAA Communications & External Affairs

>> 202-482-1097 o / 202-494-6515 c
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>
> --
> Scott Smullen
> Deputy Director
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>
>

--
Scott Smullen
Deputy Director
NOAA Communications & External Affairs
202-482-1097 o / 202-494-6515 c

Beglin, Julie A.

From: Miller, Jerry L. [Jerry_L._Miller@ostp.eop.gov]
Sent: Monday, August 16, 2010 7:19 PM
To: Killeen, Timothy L.; Lora Clarke
Cc: Taylor, Phillip R.; Steve Murawski; Conover, David O; Hankin, Erik R
Subject: RE: Proposal for a PI Workshop Sponsored by JSOST
Attachments: JSOST Draft Science Conference Proposal 081110-OMBredline.doc

Our PI conference on the oil spill has cleared the OMB Deepwater review process with just a few minor edits. See attached.

One point to flag: The issue of FACA was raised during the review process. I have confirmed with OSTP GC that we will not run afoul of FACA if we ask for recommendations from individual PIs (as is implied in then attached text). We cannot ask the group for consensus advice, so will need to bear that in mind prior to and during the meeting.

Jerry

From: Killeen, Timothy L. [mailto:tkilleen@nsf.gov]
Sent: Tuesday, August 10, 2010 11:02 AM
To: Lora Clarke; Miller, Jerry L.
Cc: Taylor, Phillip R.; Steve Murawski; Conover, David O; Hankin, Erik R
Subject: RE: Proposal for a PI Workshop Sponsored by JSOST

Lora and Erik
These look like helpful and good comments to me. It should be straightforward to revise and move ahead.
- Tim

From: Lora Clarke [mailto:Lora.Clarke@noaa.gov]
Sent: Tuesday, August 10, 2010 10:14 AM
To: Miller, Jerry L.
Cc: Taylor, Phillip R.; Steve Murawski; Conover, David O; Hankin, Erik R; Killeen, Timothy L.
Subject: Re: Proposal for a PI Workshop Sponsored by JSOST

All,

We received 3 sets of comments on the draft proposal. Here is a summary of the main points:

1 - Both Allen Dearry (NIEHS) and Paul Sandifer (IWG-4H) commented that Human Health should be an added component. This could be done as a separate theme or included in the Human Dimensions theme.

~~2 - The IWG-OE would like to see education addressed at the conference.~~

3 - There was a request for further clarification on the expected results. Specifically, will the synthesis be published, posted online or ?

Please let us know your thoughts on these comments and we will update the draft proposal accordingly. The full set of comments is attached for you to see. Also, as of this morning only the USGS and NIEHS have submitted a list of PIs to be included in the conference. Once we have more names we will send you a compiled list.

Cheers,
Lora and Erik

Miller, Jerry L. wrote:
Lora,
Per our email exchange yesterday, I suggest that this be sent close-hold to the JSOST members for a quick review. After that, we can launch it into the OMB Deepwater clearance process.

Jerry

From: Lora Clarke [mailto:Lora.Clarke@noaa.gov]
Sent: Tuesday, August 03, 2010 10:32 AM
To: Miller, Jerry L.
Cc: Taylor, Phillip R.; Steve Murawski; Conover, David O; Hankin, Erik R; Killeen, Timothy L.
Subject: Re: Proposal for a PI Workshop Sponsored by JSOST

Jerry,

Here is a cleaned up version of the workshop proposal that incorporates your comments. Steve feels that the Human Dimensions theme is important and would like to keep that in the proposal though.

Steve, Dave, and Phil have approved this version.

Cheers,
Lora

Miller, Jerry L. wrote:
Phil/Steve,

Here is a redline version of the workshop proposal. Changes and comments inserted reflect OSTP concerns and are intended to help smooth the approval path through the OMB Deepwater process. I know that other changes have been suggested as well. Might it be possible to get all changes consolidated into a version 3 by late today or early tomorrow? I would like to get this out of the OSTP door before departing for travel tomorrow afternoon.

Jerry

From: Taylor, Phillip R. [mailto:prtaylor@nsf.gov]
Sent: Monday, August 02, 2010 10:02 AM
To: Taylor, Phillip R.; Miller, Jerry L.; Steve Murawski; Conover, David O; Lora Clarke; Hankin, Erik R; Killeen, Timothy L.
Cc: Taylor, Phillip R.
Subject: RE: Proposal for a PI Workshop Sponsored by JSOST

The R/V Pelican cruise on marine ecosystem responses is Aug 30 to Sept 8th.

The lead PIs are Mike Roman, UMD, Steve Brandt, OSU, Monty Graham, U So Alabama/Dauphin Island lab

The cruise is focused on the zooplankton to fish sectors.

Phil

****

Phillip R. Taylor
Head, Ocean Section
(Biological, Chemical and Physical Oceanography)
Division of Ocean Sciences
National Science Foundation
4201 Wilson Blvd., Suite 725
Arlington, Virginia, USA 22230
703-292-8580, fax: 703-292-9085
prtaylor@nsf.gov

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From: Taylor, Phillip R.
Sent: Mon 02-Aug-10 9:14 AM
To: Miller, Jerry L.; Steve Murawski; Conover, David O; Lora Clarke; Hankin, Erik R; Killeen, Timothy L.
Cc: Taylor, Phillip R.
Subject: RE: Proposal for a PI Workshop Sponsored by JSOST

Slight revision for Hatteras and Oceanus.
21 August to 16 September

The current party is as follows (not all tech/student names are known):

Oceanus
1 Montoya, Joseph P. GaTech
2 Grosse, Julia GaTech
3 Gonzalez, Julia GaTech
4 Frey, Claudia IOW
5 Poulson, Kelsey GaTech
6 Bracco, Annalisa GaTech
7 Cardona, Yuley GaTech
8 Maisonet-Montanez, Virgilio GaTech
9 Joye, Mandy UGA
10 Crespo-Medina, Melitza UGA
11 Subramaniam, Ajit LDEO
12 Jahn, Ginger UMCES
13 McLaughon, Ben E Carolina
14 Chekaluk, Alex LDEO
15 Passow, Uta UCSB
16 Asper, Vernon USM
Diercks, Arne USM
17 Observer?
18 EPA observer EPA
19 Katie SSSG

Hatteras
1 Villareal, Tracy UTMSI
2
3 Katie Swanson UTMSI
4 Ellen Knapke UTMSI
5 Sam Dorado TAMUG
6
7 Ajit lab person LDEO
8

9 Mandy Joye 3 lab persons
10 Kamrun Zargar UGA
11 Patricia Medieros/Laura Beer UGA
12 Melissa Gaskill writer
13 MATE intern
14 RESTECH

Also the Mike Roman, Steve Brandt, Monty Graham et al party out at about the same time.

Phil

****

Phillip R. Taylor
Head, Ocean Section
(Biological, Chemical and Physical Oceanography)
Division of Ocean Sciences
National Science Foundation
4201 Wilson Blvd., Suite 725
Arlington, Virginia, USA 22230
703-292-8580, fax: 703-292-9085
prtaylor@nsf.gov

-----Original Message-----
From: Miller, Jerry L. [mailto:Jerry_L._Miller@ostp.eop.gov]
Sent: Sun 01-Aug-10 5:42 PM
To: Taylor, Phillip R.; Steve Murawski; Conover, David O; Lora Clarke; Hankin, Erik R; Killeen, Timothy L.
Subject: RE: Proposal for a PI Workshop Sponsored by JSOST

Regarding timing, can someone fill me in on the cruise dates?
While I am inclined towards sooner rather than later, the 2nd week of August as mentioned by Steve seems hard to do given the hurdles before we can announce this. Late August or early September seems more realistic, but I surmise conflicts with cruises. If so, then maybe we are looking at an announcement in August of a mid-late September event.

Jerry

From: Taylor, Phillip R. [mailto:prtaylor@nsf.gov]
Sent: Saturday, July 31, 2010 11:49 AM
To: Steve Murawski; timkilleen@nsf.gov; Miller, Jerry L.; Conover, David O; Lora Clarke; Hankin, Erik R
Subject: RE: Proposal for a PI Workshop Sponsored by JSOST

Excuse my input style. I'm using a computer with all Spanish language in the software and a weird keyboard.

I assume this is "science"... but the front end does not make that explicit. So with that in mind:

A forum for ADD IN: scientific ...investigators working on DWH MC-252-related ADD IN: research, monitoring and sampling ...projects to provide overviews of projects, compare initial results, form new collaborations, interact with federal agency scientists and staff, and make recommendations for long term research priorities.

Dates are very near term so we have to realize that this will lower the participation. Also, that time frame will preclude a large group participating on the NSF-funded, two-ship program. That program will be packed to the gills with folks working from microbes to fish, and

water chemistry as well. So of the folks already having been to sea will be joining the cruises. I can get a fulll expected accounting. The time frame is the latter half of August and fist half of September. We will no doubt lose some with any date but have to balance need for rapid action with certainty of losing many in the Aug-Sept time frame above.

Thanks, Phil

****

Phillip R. Taylor
Head, Ocean Section
(Biological, Chemical and Physical Oceanography)
Division of Ocean Sciences
National Science Foundation
4201 Wilson Blvd., Suite 725
Arlington, Virginia, USA 22230
703-292-8580, fax: 703-292-9085
prtaylor@nsf.gov

-----Mensaje original-----
De: Steve Murawski [mailto:Steve.Murawski@noaa.gov]
Enviado el: jue 29-jul-10 10:01
Para: timkilleen@nsf.gov; Miller, Jerry L.; Conover, David O; Taylor, Phillip R.; Lora Clarke; Hankin, Erik R
Asunto: Proposal for a PI Workshop Sponsored by JSOST

All,

Here is a revised version of a prospectus for a JSOST-sponsored PI workshop that Dave Conover and I worked over (with Lora's help!).. I propose that we all agree oin the draft then shoot it to the membership with the attached cover note. The big issue seems to be the dates. If we want it in the second week of August we need to hustle. If we want it in late September we have more time. I get a sense of urgency in this and am prepared to move quickly. I lined up the university of South Florida to host this conference, and they are flexible.

Appreciate your thoughts

--
~~~~~~
Lora Clarke, Ph.D.
CAMEO Associate Program Manager
NOAA Fisheries Service
1315 East West Hwy Rm. 15728
Silver Spring, MD 20910
(301) 713-2239 x 121
~~~~~~

--
~~~~~~
Lora Clarke, Ph.D.
CAMEO Associate Program Manager
NOAA Fisheries Service
1315 East West Hwy Rm. 15728
Silver Spring, MD 20910
~~~~~~

(301) 713-2239 x 121

****

Principal Investigator (PI) Conference
BP/Deepwater Horizon (BP/DWH) Oil Spill

Deleted: MC-252

Sponsored by the National Science and Technology Council's
Joint Sub-Committee on Ocean Science and Technology (JSOST)

Purpose: A forum for scientific investigators working on BP/DWH oil spill related research, monitoring, and sampling projects to exchange overviews of projects, compare initial results, form new collaborations, interact with federal agency scientists and staff, and make recommendations for long term research priorities.

Deleted: MC-252-

Deleted: provide

Background: Federal agencies operating in the Gulf of Mexico have undertaken or sponsored numerous and substantive research projects related to the amount, fate, and effects of the BP/DWH oil spill. Science programs have focused on marine, coastal, air quality, and human dimensions of the spill and its impacts. Many of these projects were by necessity assembled quickly using existing resources and collaborations. Now that many of these projects are underway or completed, and releases from the well have been controlled, it is appropriate to take stock of initial project findings, evaluate progress in addressing working hypotheses and research questions, and identify emerging and long-term issues. The Federal sponsoring agencies will use the results to help plan additional investments in ongoing and new science. The conference will include federally-funded Principal Investigators (PIs) from academia, private research institutes, and agencies conducting the research as well as representatives from the JSOST agencies.

Deleted: an enormous amount of science

Deleted: MC-252

Deleted: appear to

The conference will provide a venue for collaboration among scientists to help interpret initial results, consider priorities for future work, and allow federal agencies to better understand how their investments have been able to answer key questions and to plan their FY11 investments. Furthermore, progress on these key questions will help frame and support future investments in oil spill-related science.

Sponsors: The National Science and Technology Council's (NSTC) Joint Sub-committee on Ocean Science and Technology (JSOST) is comprised of nearly two dozen federal agencies involved in coastal and ocean-related science. The JSOST authored the Ocean Research Priorities Plan (2007) and is currently working on an update coincident with the Administration's announcement of a National Ocean Policy. As JSOST agencies sponsor much of the research currently ongoing related to DWH MC-252 spill, it is appropriate for JSOST to convene this initial PI conference.

Format: Two-day meeting organized around plenary talks and discussion sessions with thematic break-out groups. Posters are encouraged as well as brief abstracts of preliminary results. Results will be a synthesis of initial findings, notes on discussions and suggestions for follow-on science.

Plenaries with short talks and concurrent poster sessions will be arranged around the following topical areas:

I. Oil magnitude, fate and effects: surface
II. Oil magnitude, fate and effects: sub-surface
III. Coastal impacts/mitigation including beaches, marshes and living resources
IV. Oceanic impacts/mitigation including offshore and deep ocean habitats and living resources
V. Human dimensions and health aspects: impacts on communities, economies and people
VI. Observing systems
VII. Fisheries and seafood safety

Timing: Conference to take place in mid to late September, intended to provide initial results that may enlighten additional field work this year.

Arrangements: The conference will be held at the University of South Florida, St. Petersburg, Florida to maximize participation from PIs.

Target Participants/Audience:

PIs specifically involved in conducting research and monitoring activities in one of the thematic areas sponsored by JSOST agencies. These will include academic, federal and state agency, and private research institution scientists. Additionally, research managers from relevant federal and state agencies, universities and private research institutions undertaking this research are encouraged to participate.

Points of Contact:

Phil Taylor NSF
ptaylor@nsf.gov

Steve Murawski NOAA
steve.murawski@noaa.gov

(note: if accepted the JSOST agencies will form a program committee and nominate an arrangements coordinator)

Beglin, Julie A.

From: Miller, Jerry L. [Jerry_L._Miller@ostp.eop.gov]
Sent: Tuesday, August 10, 2010 11:30 AM
To: 'Lora.Clarke@noaa.gov'
Cc: Taylor, Phillip R.; 'steve.murawski@noaa.gov'; Conover, David O; Hankin, Erik R; Killeen, Timothy L.
Subject: Re: Proposal for a PI Workshop Sponsored by JSOST

Lora,
My thoughts regarding the comments:
1) I had assumed that Human Dimensions includes Human Health, so I believe we have it covered already.
2) Regarding Education, the purpose of this conference is to have PIs report on results of activities funded in response to the spill. I don't know of any education activities that have been funded so am not sure that this is a viable topic for this meeting.
3) I imagine that JSOST might produce a summary and that it would be available on line.

When you have heard from others copied on this email, please generate a redline version of the conference proposal and send to us in prep for OMB Deepwater review.

Jerry

JLM --- sent from my BlackBerry

From: Lora Clarke <Lora.Clarke@noaa.gov>
To: Miller, Jerry L.
Cc: Taylor, Phillip R. <prtaylor@nsf.gov>; Steve Murawski <Steve.Murawski@noaa.gov>; Conover, David O <dconover@nsf.gov>; Hankin, Erik R <ehankin@nsf.gov>; Killeen, Timothy L. <tkilleen@nsf.gov>
Sent: Tue Aug 10 10:14:28 2010
Subject: Re: Proposal for a PI Workshop Sponsored by JSOST

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1 - Both Allen Dearry (NIEHS) and Paul Sandifer (IWG-4H) commented that Human Health should be an added component. This could be done as a separate theme or included in the Human Dimensions theme.

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Phil

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Phillip R. Taylor

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3 Gonzalez, Julia GaTech
4 Frey, Claudia IOW
5 Poulson, Kelsey GaTech
6 Bracco, Annalisa GaTech
7 Cardona, Yuley GaTech
8 Maisonet-Montanez, Virgilio GaTech
9 Joye, Mandy UGA
10 Crespo-Medina, Melitza UGA
11 Subramaniam, Ajit LDEO
12 Jahn, Ginger UMCES
13 McLaughon, Ben E Carolina
14 Chekaluk, Alex LDEO
15 Passow, Uta UCSB
16 Asper, Vernon USM
Diercks, Arne USM
17 Observer?
18 EPA observer EPA
19 Katie SSSG

Hatteras
1 Villareal, Tracy UTMSI
2
3 Katie Swanson UTMSI
4 Ellen Knapke UTMSI
5 Sam Dorado TAMUG
6
7 Ajit lab person LDEO
8
9 Mandy Joye 3 lab persons
10 Kamrun Zargar UGA
11 Patricia Medieros/Laura Beer UGA
12 Melissa Gaskill writer
13 MATE intern
14 RESTECH

Also the Mike Roman, Steve Brandt, Monty Graham et al party out at about the same time.

Phil

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Subject: RE: Proposal for a PI Workshop Sponsored by JSOST

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Sent: Saturday, July 31, 2010 11:49 AM
To: Steve Murawski; timkilleen@nsf.gov; Miller, Jerry L.; Conover, David O; Lora Clarke; Hankin, Erik R
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Thanks, Phil

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Beglin, Julie A.

From: Miller, Jerry L. [Jerry_L._Miller@ostp.eop.gov]
Sent: Tuesday, August 03, 2010 10:59 AM
To: Lora Clarke
Cc: Taylor, Phillip R.; Steve Murawski; Conover, David O; Hankin, Erik R; Killeen, Timothy L.
Subject: RE: Proposal for a PI Workshop Sponsored by JSOST

Lora,
Per our email exchange yesterday, I suggest that this be sent close-hold to the JSOST members for a quick review. After that, we can launch it into the OMB Deepwater clearance process.

Jerry

From: Lora Clarke [mailto:Lora.Clarke@noaa.gov]
Sent: Tuesday, August 03, 2010 10:32 AM
To: Miller, Jerry L.
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Jerry,

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Steve, Dave, and Phil have approved this version.

Cheers,
Lora

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12 Jahn, Ginger UMCES
13 McLaughon, Ben E Carolina
14 Chekaluk, Alex LDEO
15 Passow, Uta UCSB
16 Asper, Vernon USM
Diercks, Arne USM
17 Observer?
18 EPA observer EPA
19 Katie SSSG

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1 Villareal, Tracy UTMSI
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***** DRAFT *****
****

Principal Investigator (PI) Conference
Deepwater Horizon MC-252 Oil Spill

Sponsored by the National Science and Technology Council's
Joint Sub-Committee on Ocean Science and Technology (JSOST)

Purpose: A forum for scientific investigators working on DWH MC-252-related research, monitoring, and sampling projects to provide overviews of projects, compare initial results, form new collaborations, interact with federal agency scientists and staff, and make recommendations for long term research priorities.

Background: Federal agencies operating in the Gulf of Mexico have undertaken or sponsored an enormous amount of science related to the amount, fate, and effects of the DWH MC-252 oil spill. Science programs have focused on marine, coastal, air quality, and human dimensions of the spill and its impacts. Many of these projects were by necessity assembled quickly using existing resources and collaborations. Now that many of these projects are underway or completed, and releases from the well appear to have been controlled, it is appropriate to take stock of initial project findings, evaluate progress in addressing working hypotheses and research questions, and identify emerging issues. The Federal sponsoring agencies will use the results to plan additional investments in ongoing and new science. The conference will include federally-funded Principal Investigators from academia, private research institutes, and agencies conducting the research as well as representatives from the JSOST agencies.

The conference will provide a venue for collaboration among scientists to help interpret initial results, consider priorities for future work, and allow federal agencies to better understand how their investments have been able to answer key questions and to plan their FY11 investments. Furthermore, progress on these key questions will help frame and support future investments in oil spill-related science.

Sponsors: The National Science and Technology Council's (NSTC) Joint Sub-committee on Ocean Science and Technology (JSOST) is comprised of nearly two dozen federal agencies involved in coastal and ocean-related science. The JSOST authored the Ocean Research Priorities Plan (2007) and is currently working on an update coincident with the Administration's announcement of a National Ocean Policy. As JSOST agencies sponsor much of the research currently ongoing related to DWH MC-252 spill, it is appropriate for JSOST to convene this initial PI conference.

Format: Two-day meeting organized around plenary talks and discussion sessions with thematic break-out groups. Posters are encouraged as well as brief abstracts of preliminary results. Results will be a synthesis of initial findings, notes on discussions and suggestions for follow-on science.

Plenaries with short talks and concurrent poster sessions will be arranged around the following topical areas:

I. Oil magnitude, fate and effects: surface
II. Oil magnitude, fate and effects: sub-surface
III. Coastal impacts/mitigation including beaches, marshes and living resources
IV. Oceanic impacts/mitigation including offshore and deep ocean habitats and living resources
V. Human dimensions aspects: impacts on communities, economies and people
VI. Observing systems
VII. Fisheries and seafood safety

Timing: Conference to take place in mid to late September, intended to provide initial results that may enlighten additional field work this year.

Arrangements: The conference will be held at the University of South Florida, St. Petersburg, Florida to maximize participation from the PIs.

Target Participants/Audience:

PIs specifically involved in conducting research and monitoring activities in one of the thematic areas sponsored by JSOST agencies. This will include academic, agency, and private research institution scientists. Additionally, research managers from relevant federal agencies, universities and private research institutions undertaking this research are encouraged to participate.

Points of Contact:

Phil Taylor NSF
ptaylor@nsf.gov

Steve Murawski NOAA
steve.murawski@noaa.gov

(note: if accepted the JSOST agencies will form a program committee and nominate an arrangements coordinator)

Beglin, Julie A.

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Sent: Monday, August 02, 2010 6:23 PM
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Jerry

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Jerry,

Will the draft proposal be sent to the JSOST membership for comments and suggestions prior to going through the OMB Deepwater review process? Can you please clarify?

Thanks,
Lora

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Appreciate your thoughts

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Lora Clarke, Ph.D.
CAMEO Associate Program Manager
NOAA Fisheries Service
1315 East West Hwy Rm. 15728
Silver Spring, MD 20910
(301) 713-2239 x 121
~~~~~~

Beglin, Julie A.

From: Lora Clarke [Lora.Clarke@noaa.gov]
Sent: Monday, August 02, 2010 4:42 PM
To: Miller, Jerry L.
Cc: Taylor, Phillip R.; Steve Murawski; Conover, David O; Hankin, Erik R; Killeen, Timothy L.
Subject: Re: Proposal for a PI Workshop Sponsored by JSOST

Jerry,

Will the draft proposal be sent to the JSOST membership for comments and suggestions prior to going through the OMB Deepwater review process? Can you please clarify?

Thanks,
Lora

Miller, Jerry L. wrote:

Phil/Steve,

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Sent: Monday, August 02, 2010 10:02 AM
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Cc: Taylor, Phillip R.
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The cruise is focused on the zooplankton to fish sectors.

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703-292-8580, fax: 703-292-9085
prtaylor@nsf.gov

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21 August to 16 September

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9 Joye, Mandy UGA
10 Crespo-Medina, Melitza UGA
11 Subramaniam, Ajit LDEO
12 Jahn, Ginger UMCES
13 McLaughon, Ben E Carolina
14 Chekaluk, Alex LDEO
15 Passow, Uta UCSB
16 Asper, Vernon USM
Diercks, Arne USM
17 Observer?
18 EPA observer EPA
19 Katie SSSG

Hatteras
1 Villareal, Tracy UTMSI
2
3 Katie Swanson UTMSI
4 Ellen Knapke UTMSI
5 Sam Dorado TAMUG
6
7 Ajit lab person LDEO
8
9 Mandy Joye 3 lab persons
10 Kamrun Zargar UGA
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Also the Mike Roman, Steve Brandt, Monty Graham et al party out at about the same time.

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Attachments: PI Workshop JSOST v2_jm.doc

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13 McLaughon, Ben E Carolina
14 Chekaluk, Alex LDEO
15 Passow, Uta UCSB
16 Asper, Vernon USM
Diercks, Arne USM
17 Observer?
18 EPA observer EPA
19 Katie SSSG

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1 Villareal, Tracy UTMSI
2
3 Katie Swanson UTMSI
4 Ellen Knapke UTMSI
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***** DRAFT *****
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Principal Investigator (PI) Conference
Deepwater Horizon MC-252 Oil Spill

Sponsored by the National Science and Technology Council's
Joint Sub-Committee on Ocean Science and Technology (JSOST)

Purpose: A forum for investigators working on DWH MC-252-related projects to provide overviews of projects, compare initial results, form new collaborations, interact with federal agency scientists and staff, and make recommendations for long term research priorities.

Background: Federal agencies operating in the Gulf of Mexico have undertaken or sponsored an enormous amount of science related to the amount, fate, and effects of the DWH MC-252 oil spill. Science programs have focused on marine, coastal, air quality, and human dimensions of the spill and its impacts. Many of these projects were by necessity assembled quickly using existing resources and collaborations. Now that many of these projects are underway or completed, and releases from the well appear to have been controlled, it is appropriate to take stock of initial project findings, evaluate progress in addressing working hypotheses and research questions, and identify emerging issues. The Federal sponsoring agencies will use the results to plan additional investments in ongoing and new science. The conference will include federally-funded Principal Investigators from academia, private research institutes, and agencies conducting the research as well as representatives from the JSOST agencies.

The conference will provide a venue for collaboration among scientists to help interpret of initial results, consider priorities for future work, and allow federal agencies to better understand how their investments have been able to answer key questions and to plan their FY11 investments. Furthermore, progress on these key questions will help frame and support future investments in oil spill-related science.

Sponsors: The National Science and Technology Council's (NSTC) Joint Sub-committee on Ocean Science and Technology (JSOST) is comprised of nearly two dozen federal agencies involved in coastal and ocean-related science. The JSOST authored the Ocean Research Priorities Plan (2007) and is currently working on an update coincident with the Administration's announcement of a National Ocean Policy. As JSOST agencies sponsor much of the research currently ongoing related to DWH MC-252 spill, it is appropriate for JSOST to convene this initial PI conference.

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Format: Two-day meeting organized around plenary talks and discussion sessions with thematic break-out groups. Posters are encouraged as well as brief abstracts of preliminary results. Results will be a synthesis of initial findings, notes on discussions and suggestions for follow-on science.

Deleted: workshop

Deleted: recommendations

Plenaries with short talks and concurrent poster sessions will be arranged around the following topical areas:

Deleted: y sessions

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I. Oil magnitude, fate and effects: surface
II. Oil magnitude, fate and effects: sub-surface
III. Coastal impacts/mitigation including beaches, marshes and living resources
IV. Oceanic impacts/mitigation including offshore and deep ocean habitats and living resources
V. Air quality impacts
VI. Human dimensions aspects: impacts on communities, economies and people
VII. Observing systems
VIII. Fisheries and seafood safety

Comment [m1]: While V and VI are important in the grand scheme of things, it seems to me that they lie largely outside of the purview of JSOST. Also, has there really been enough investment in VI to yield a robust discussion?

Timing: Conference to take place in mid-August or late September, intended to provide initial results that may enlighten additional field work this year.

Comment [m2]: Seems unrealistic.

Arrangements: The conference will be held at the University of South Florida, St. Petersburg, Florida to maximize participation from the PIs.

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Target Participants/Audience:

PIs specifically involved in conducting research and monitoring activities in one of the thematic areas sponsored by JSOST agencies. This will include academic, agency, and private research institution scientists. Additionally, research managers from relevant federal agencies, universities and private research institutions undertaking this research are encouraged to participate. To the extent possible, the conference will include researchers involved with the response, natural resource damage assessment and other research currently ongoing.

Deleted: organization

Deleted: organizations

Deleted: involve

Comment [m3]: This may raise some issues. Worth pursuing, or should we drop it?

Points of Contact:

Phil Taylor NSF
ptaylor@nsf.gov

Steve Murawski NOAA
steve.murawski@noaa.gov

(note: if accepted the JSOST agencies will form a program committee and nominate an arrangements coordinator)

Beglin, Julie A.

From: Lora Clarke [Lora.Clarke@noaa.gov]
Sent: Monday, August 02, 2010 4:29 PM
To: Conover, David O; Taylor, Phillip R.
Cc: Steve Murawski
Subject: [Fwd: RE: Proposal for a PI Workshop Sponsored by JSOST]
Attachments: PI Workshop JSOST v3.doc

Dave and Phil,

Here is a cleaned up version of the workshop proposal. Most comments were minor, but a couple of things to note:

1 - I changed the timing of the workshop to mid to late September based on the comments from Jerry and Dave's point about a September time frame allowing for more data.

2 - Based on Jerry's suggestion, I deleted the Air Quality theme. Steve would like to keep the Human Dimensions theme though.

Do you agree with these changes? Please let me know if I should forward this on to Jerry.

Thanks,
Lora

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From: Miller, Jerry L. <Jerry_L._Miller@ostp.eop.gov>
To: Taylor, Phillip R. <prtaylor@nsf.gov>, Steve Murawski <Steve.Murawski@noaa.gov>, Conover, David O <dconover@nsf.gov>, Lora Clarke <Lora.Clarke@noaa.gov>, Hankin, Erik R <ehankin@nsf.gov>, Killeen, Timothy L. <tkilleen@nsf.gov>
References:<4C523295.80805@noaa.gov> <D9CA63119F68DA4DB4C49C534AFBD6A801BCAB1A@NSF-BE-02.ad.nsf.gov> <FE64569376D8154589E00C061BC26E97373058592D@SMEOP104CMS.DS.EOP.GOV> <D9CA63119F68DA4DB4C49C534AFBD6A801BCAB21@NSF-BE-02.ad.nsf.gov> <D9CA63119F68DA4DB4C49C534AFBD6A801BCAB2C@NSF-BE-02.ad.nsf.gov>

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17 Observer?
18 EPA observer EPA
19 Katie SSSG

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Background: Federal agencies operating in the Gulf of Mexico have undertaken or sponsored an enormous amount of science related to the amount, fate, and effects of the DWH MC-252 oil spill. Science programs have focused on marine, coastal, air quality, and human dimensions of the spill and its impacts. Many of these projects were by necessity assembled quickly using existing resources and collaborations. Now that many of these projects are underway or completed, and releases from the well appear to have been controlled, it is appropriate to take stock of initial project findings, evaluate progress in addressing working hypotheses and research questions, and identify emerging issues. The Federal sponsoring agencies will use the results to plan additional investments in ongoing and new science. The conference will include federally-funded Principal Investigators from academia, private research institutes, and agencies conducting the research as well as representatives from the JSOST agencies.

The conference will provide a venue for collaboration among scientists to help interpret initial results, consider priorities for future work, and allow federal agencies to better understand how their investments have been able to answer key questions and to plan their FY11 investments. Furthermore, progress on these key questions will help frame and support future investments in oil spill-related science.

Sponsors: The National Science and Technology Council's (NSTC) Joint Sub-committee on Ocean Science and Technology (JSOST) is comprised of nearly two dozen federal agencies involved in coastal and ocean-related science. The JSOST authored the Ocean Research Priorities Plan (2007) and is currently working on an update coincident with the Administration's announcement of a National Ocean Policy. As JSOST agencies sponsor much of the research currently ongoing related to DWH MC-252 spill, it is appropriate for JSOST to convene this initial PI conference.

Format: Two-day meeting organized around plenary talks and discussion sessions with thematic break-out groups. Posters are encouraged as well as brief abstracts of preliminary results. Results will be a synthesis of initial findings, notes on discussions and suggestions for follow-on science.

Plenaries with short talks and concurrent poster sessions will be arranged around the following topical areas:

I. Oil magnitude, fate and effects: surface
II. Oil magnitude, fate and effects: sub-surface
III. Coastal impacts/mitigation including beaches, marshes and living resources
IV. Oceanic impacts/mitigation including offshore and deep ocean habitats and living resources
V. Human dimensions aspects: impacts on communities, economies and people
VI. Observing systems
VII. Fisheries and seafood safety

Timing: Conference to take place in mid to late September, intended to provide initial results that may enlighten additional field work this year.

Arrangements: The conference will be held at the University of South Florida, St. Petersburg, Florida to maximize participation from the PIs.

Target Participants/Audience:

PIs specifically involved in conducting research and monitoring activities in one of the thematic areas sponsored by JSOST agencies. This will include academic, agency, and private research institution scientists. Additionally, research managers from relevant federal agencies, universities and private research institutions undertaking this research are encouraged to participate.

Points of Contact:

Phil Taylor NSF
ptaylor@nsf.gov

Steve Murawski NOAA
steve.murawski@noaa.gov

(note: if accepted the JSOST agencies will form a program committee and nominate an arrangements coordinator)