



## Flow measurements

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Cc: Marcia K McNutt

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Hello David,

Marcia McNutt suggested I contact you regarding acoustic flow measurements of the plumes. As you may know, Woods Hole has responded to inquiries initially from BP and then more recently the USCG to make acoustic measurements in an effort to gain further knowledge of flow rates. This technique is based on deep ocean measurements of similar plumes emanating from hydrothermal vents. It is clear that such measurements would improve the body of knowledge regarding flows in a significant way.

It is quite possible that the ROVs on site could make this measurement. While it would be ideal to have a dedicated suite of instrumentation to do this (as proposed earlier and attached), we believe it would also be possible (e.g. better than nothing) to have a vehicle collect data using existing sensors onboard. If you would be willing to have us interact with your operational people and the ROV folks, we think such measurements would be helpful to everyone.

We recognize the necessity to balance priorities but respectfully suggest that these measurements could be undertaken with minimal impact to the important tasks otherwise underway.

Regards,

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