

2564713564-33695-17887-133-184

From: Barbara W Wainman <bwainman@usgs.gov>  
Sent: Tue, 17 Aug 2010 15:23:04  
To: GS FOIA 0134 <foia0134@usgs.gov>  
Subject: Fw: TODAY: Mass Balance Presentation, June 24th, 1 - 2 pm

Barbara W. Wainman  
Director  
Office of Communications and Outreach  
US Geological Survey  
119 National Center  
Reston, VA 20192

(703) 648-5750

----- Forwarded by Barbara W Wainman/DO/USGS/DOI on 08/17/2010 03:22 PM

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From: Barbara W Wainman/DO/USGS/DOI

To: Judy J Nowakowski/DO/USGS/DOI@USGS, Suzette M Kimball/DO/USGS/DOI@USGS

Date: 06/24/2010 10:12 AM

Subject: Fw: TODAY: Mass Balance Presentation, June 24th, 1 - 2 pm

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They really think they are in charge of everything the FRTG is not a DOI thing last time I checked it was a NIC thing seems like NIC can be briefed on it if they want too many cooks in this kitchen for me but at least now they have others to be mad at besides me.

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----- Forwarded by Barbara W Wainman/DO/USGS/DOI on 06/24/2010 10:11 AM

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From: Vic Hines <vhines@usgs.gov>

To: Barbara Wainman <bwainman@usgs.gov>, Wade Anne-Berry  
<abwade@usgs.gov>, Ransom Clarice  
<cransom@usgs.gov>

Date: 06/24/2010 10:09 AM

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Subject: Fwd: TODAY: Mass Balance Presentation, June 24th, 1 - 2 pm

Just FYI, Vic Labson is scheduled to give a presentation on Mass Balance to the NIC, and it appears to have spun up DOI as they didn't know about it. I didn't know the briefing was scheduled, but suspect it was put on the schedule to clarify what Mass Balance is, and isn't, for the Coast Guard. Believe they at one time expressed interest in getting new Mass Balance numbers daily, which is not feasible. Since its strictly internal I don't think doing the briefing will be an issue, but we'll see.

Vic

Begin forwarded message:

From: Martha N Garcia <mgarcia@usgs.gov>  
Date: June 24, 2010 6:46:41 AM PDT  
To: Jrodriquez@ios.doi.gov  
Cc: "Hines, Vic" <vhines@usgs.gov>, "Labson, Victor F" <vlabson@usgs.gov>, "Sogge, Mark K" <mark\_sogge@usgs.gov>  
Subject: Re: FW: TODAY: Mass Balance Presentation, June 24th, 1 - 2 pm

Julie, This is an internal NIC presentation. It addresses questions that RDML Neffenger and other CG foilks had on the mass balance team

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and the oil budget. Vic will be giving a presentation that was used for the ASWS and the Coast Guard previously. Let me know if we should still proceed. My apologies for not keeping you in the loop

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Martha N. Garcia, Chief of Staff  
Senior Advisor for Biology

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(703) 648-4039 fax  
[mgarcia@usgs.gov](mailto:mgarcia@usgs.gov)

-----"Rodriguez, Julie" <[Julie\\_Rodriguez@ios.doi.gov](mailto:Julie_Rodriguez@ios.doi.gov)> wrote: -----

To: "Garcia, Martha N" <[mgarcia@usgs.gov](mailto:mgarcia@usgs.gov)>, "Hines, Vic" <[vhines@usgs.gov](mailto:vhines@usgs.gov)>, "Labson, Victor F" <[vlabson@usgs.gov](mailto:vlabson@usgs.gov)>, "Sogge, Mark K" <[mark\\_sogge@usgs.gov](mailto:mark_sogge@usgs.gov)>  
From: "Rodriguez, Julie" <[Julie\\_Rodriguez@ios.doi.gov](mailto:Julie_Rodriguez@ios.doi.gov)>  
Date: 06/24/2010 09:34AM  
Subject: FW: TODAY: Mass Balance Presentation, June 24th, 1 - 2 pm

Hi all,

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We just received word of this and wanted to touch base to clarify whether or not this was a public presentation, an internal presentation, or who the audience is?

Can someone please call me ASAP?

Thanks,

Julie

202.208.2409 wk.

202.744.4368 cell

2564713564-33695-17887-133-184

From: mgarcia@usgs.gov [mailto:mgarcia@usgs.gov]

Sent: Thursday, June 24, 2010 9:14 AM

To: NIC-HQ-IASG; NIC; Victor F Labson; Mark K Sogge; Marcia K McNutt; Swackhammer.J-Troy@epamail.epa.gov

Cc: Hoffman, Peter CDR; O'Brien, Sean CDR

Subject: TODAY: Mass Balance Presentation, June 24th, 1 - 2 pm

Join us for Dr. Victor Labson's presentation on  
Mass Balance 101: Oil Budgets, Discharge Rates, and Available Oil

Where: Coast Guard Headquarters, Conf Room 5-0624

When: 1:00 - 2:00 pm

Contact: Martha Garcia, USGS Liaison to the NIC, mgarcia@usgs.gov

Summary : A "mass balance" is a widely used approach to accounting for the total amount of a material that enters and leaves a system. Mass Balance run in a forward direction starting from a discharge rate can be used to compute a daily and cumulative Oil Budget. Run in reverse, Mass Balance starts with an oil budget and computes a Discharge Rate. The two are the same if all sources of available oil are accounted for and all losses are quantified.

The daily updates for the Deepwater Horizon oil spill generate an “oil budget.” This involves determining the amount of oil flowing from the riser, then subtracting out what is removed by various techniques or natural processes. The difference that remains represents oil that is still available on the surface (or subsurface) and that may impact natural and economic resources in the Gulf.

Some factors are directly measured; others are estimated based on particular assumptions with some level of uncertainty. Different agencies or organizations are responsible for reporting the various components used in the calculation.

The overall oil balance estimate can change over time as we refine our knowledge of any one of the components in the equation.

The daily and cumulative oil budget estimate differs from the mass balance calculations and report generated by the FRTG Mass Balance Sub-team, which were based a one-time (May 17, 2010) estimate of the total amount of surface oil in the Gulf. The surface oil was measured by the NASA Airborne AVIRIS (Airborne Visible/Infra-Red Imaging Spectrometer) and the MODIS (MODerate-resolution Imaging Spectroradiometer) satellite. This measurement of available oil was used to back-calculate through a process similar to the oil budget and using similar assumptions to arrive at an estimate of the minimum average daily flow rate for the preceding period, as described in the May 27<sup>th</sup> FRTG preliminary report.

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