



UNIVERSITY of NEW HAMPSHIRE

Coastal Response Research Center
Modeling Working Group
October 20, 2010
MEETING NOTES

Participants:	Tom Coolbaugh, ExxonMobil
Nancy Kinner, CRRC/UNH	Leigh DeHaven, US EPA
Chris Barker (for Debbie Payton), NOAA	Kurt Hansen, USCG R&D
Michel Boufadel, Temple University	Wolfgang Konkel, ExxonMobil
	Greg Wilson, US EPA

- I. Overview
 - Focus on research (i.e., underwater plume, does it have environmental impact? Can we even clean it up? (Wolfgang)
 - Must collect data (Wolfgang)
 - Explanation of origination of Modeling Working Group (MWG); Workshop in 2007; Ubergroup responsibilities; Ultimate goal of white paper (state of the art in spill modeling, where we are now, look across other disciplines, what are the gaps, where do we need to go, what algorithms needed)
- II. Physical Transport Subcommittee (Michel Boufadel)
 - This group addresses: visualization, ice, nearshore, offshore, role of waves, surface spills, slick or submerged oil, tracking, droplet size distribution, different spilllets, etc.
 - Have not dealt with deepwater issues
 - Hydrodynamic modeling
- III. Physical Fate and Behavior Subcommittee (No Representatives Present)
 - A first draft is written
- IV. Spill Response Modeling Subcommittee (Wolfgang Konkel)
 - This group addresses “how do you model the response”; here’s what’s in the tool box; examine tradeoffs
 - Industry has moved ahead, more benefits now (i.e., Dagmar’s “booming” white paper should be included in this discussion)
 - Section due for completion by end of 2010
- V. Biological Effects Subcommittee (Debbie French McCay)
 - The bird section is completed (lots of info)
 - Jim Clark has submitted written section
 - Debbie has completed first draft

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- Covers SIMAP, acute exposure & effects; had gaps on long-term ecosystem toxicity data
- NOAA participants have been busy with DWH incident; updates resulting from DWH should be included

VI. Other/DWH

- Kurt Hansen funded Woods Hole on DWH plume – forward to Debbie French McCay
- If potential funding for deepwater – what should be done (i.e., be ready for next time, estimate the volume!)
- Should CRRC have separate group on deepwater (i.e., Bill Lehr and Oil Budget Tool with flow rate technical group)
- CDOG was not up to task of modeling DWH plume (Chris Barker); different questions were asked

VII. Next Steps

- Deep sea
- R&D meeting through ICCOPR?
- Nov 9 -10 USCG R&D Center Workshop on submerged oil; invited people who actually worked on DWH
- Alternative fuels? – future topics
- Long-term weathering – duration, biodegradation; American Academy Microbiology Biodegradation meeting next week (Kinner & Hazen & Venosa); revolution in bio-technology, metabolic changes, advanced technology

VIII. Next meeting:

- All Group Meeting in conjunction with IOSC, May 23 – 25, 2011 in Portland, OR
- Individual conference call sub-Group Meetings to be arranged by CRRC

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