



Liam Harrington-Missin, Geomatics Lead 22 July 2015

OSRL Members

Participant Members



and over 100 Associate Members



Who am I



- 6 years working with Fugro GEOS as an Oceanographer:
 - Design Criteria/Operational Criteria
 - Project Lead on 2 joint industry projects focused on ocean currents
 - Marine Software Engineer (turning Metocean Data to Metocean Information)
- 3 years working with Oil Spill Response:
 - Better respond to an oil spill, anywhere, anytime.
 - Lead enhancements in oil spill modelling, metocean and data integration/visualisation
 - Introduce some Metocean to the oil spill response world



CMarSci, CSci and on the IMarEST OOSIG Committee (inc. The organising committee for our conference)



"More data, more data, we really, really need more data",



"Learn from others, like the UK and their small bath tub, in what may work and what doesn't."

Challenge to scale up

"We can't actually agree what operational oceanography means".

"More visibility on what data we actually have"

HALF WAY

"We are all experts in our own right, but we work in isolation so have our own vested interests"

POINT

"Start with small wins and watch it snowball"

"Partnerships are key"



▶ High Level Overview

- What has been done?
- What has changed?







Source: Shell, 2014



Source: Esri, 2014

▶ Metocean, Modelling, Mapping and Data Integration (Geomatics)







Spill Response

High Level Overview

Containment



Prevention & Drilling Safety



Relief Wells



Containment

What can we do quickly to stop a blowout and/or minimise the environmental impact?

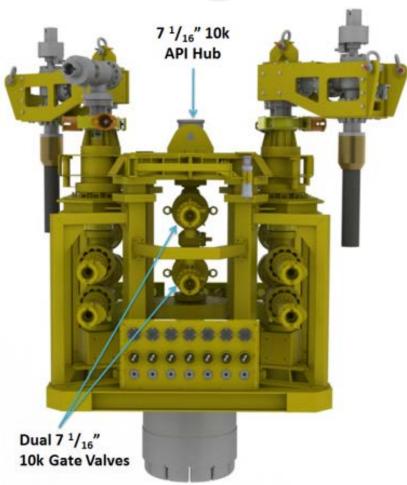


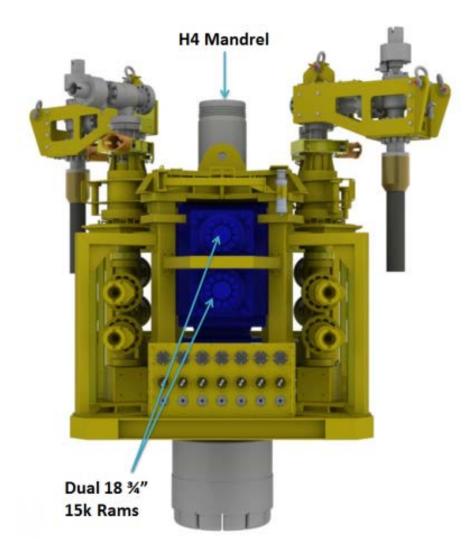


Containment



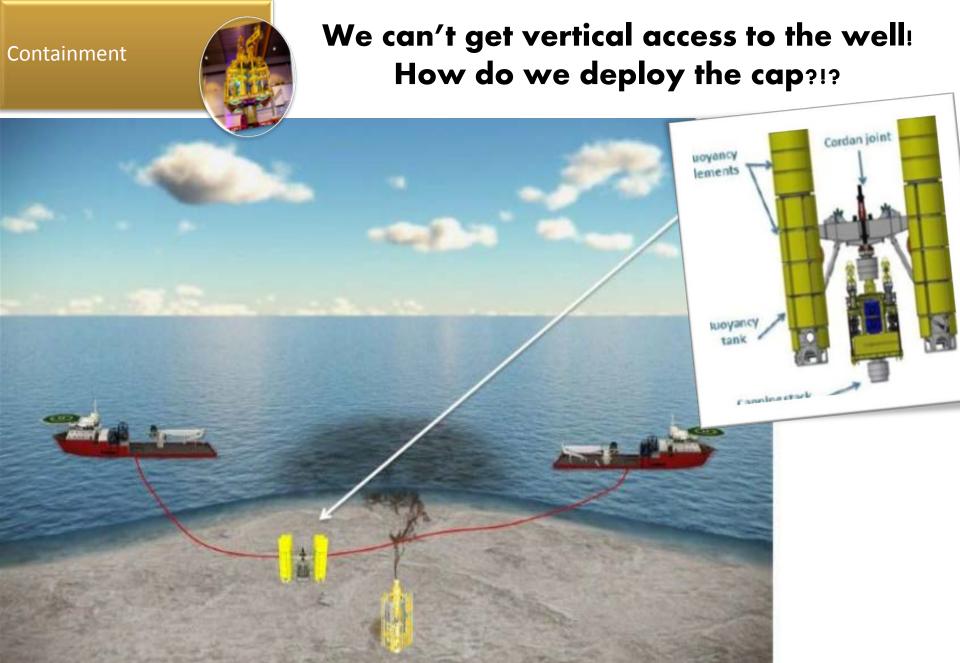
The BOPs still don't work, now what?







We can't close the cap, now what?!? Containment Offloading DP Drill Ship **Coil Tubing** Vessel BOP - Flexible Flowline Flexible Flowline FLET Flexible Flowline LMRP Flow-Spool-BOP - Flow-Spool BOP



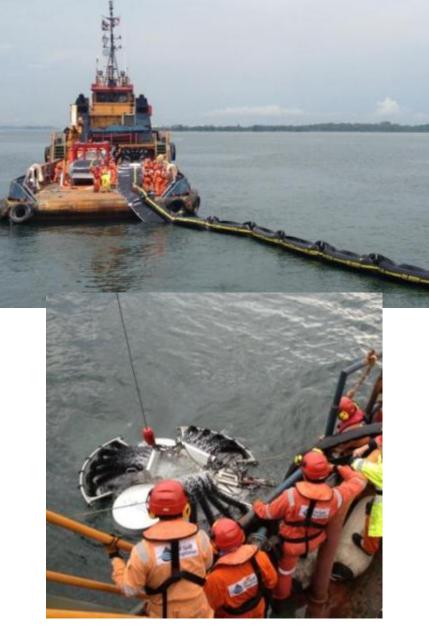




















Work Package 5: Common Operating Picture

Recommended practice for Common Operating Picture architecture for oil spill response FINAL REPORT

Mention NEBA!!

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Provided for IPIECA and OGP



Abstract. This report provides an assessment of satellite surveillance for oil sp esponse, carried out for IPIECA and OGP under contract OSR-JIP Polar 001.

10 April 2014

Kim Partington Polar Imaging Limited

An Assessment of Surface Surveillance Capabilities for Oil Spill Response using Airborne Remote Sensing

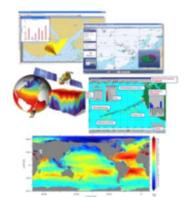
Provided for IPIECA and OGP



Abstract. This report provides an assessment of airborne surveillance for oil spil response, carried out for IPIECA and OGP under contract OSR-JIP Polar 001.







Inter-comparison and validation insitu of oil spill drift model

Final report

http://oilspillresponseproject.org/

JIP SMV: WP 2 Final Report Surface Surveillance Capabilities for Oil Spill Response using Remote Sensing

Provided for IPIECA and IOGP



This report provides the key recommendations from WP 2 with respect to enhancement of surface surveillance capabilities for oil splil response using both airborne and space-borne platforms. It is the final report from the steering committee. All findings and recommendations have been reviewed by the steering group and have been included by consensus. The findings from a real-world response exercise supported by current responders are provided in an Appendix.

31 March 2015

WP 2 Steering Committee:

Richard Eyers (WP 2 Chair, Shell Petroleum Development Company of Nigeria Ltd.), Roger Abet (Shell Exploration & Production Company), Louis Demisrigue (Fugor Geospatia B.V.), Dominique Dubucq (Total), Ola Grabas (European Space Agency), Richard Hall (Statol),

Capabilities and Uses of Sensor-Equipped Autonomous Oceanographic Vehicles for Subsea **Detection & Tracking of Oil Spills**

BP Crisis & Continuity Management (C&CM) Safety & Operational Risk Group

November 2012





Both planning for and responding to an oil spill <u>needs oceanographic</u> services to be successful.

There are <u>many opportunities</u> for improvements. The documentation published to date gives us <u>a start but there is still along way to go</u>.

Net Environmental Benefit is our goal, but to do that is a big job. We need partnerships, transparency and speed!

Many commercial and research opportunities exist but are made difficult because of the rarity of an oil spill.



Check out NEBA and COP for some really interesting problems currently faced by the industry



Useful Links:

- ➤ Link to the Oil Spill Response Toolkit for Members http://osrl.cotoco.com/
 - From videos showing the capping stack to contingency planning to field guides.
- ➤ IOGP/IPIECA JIP http://oilspillresponseproject.org/
- > API JIP http://www.oilspillprevention.org/
- ➤ Link to the Subsea Well Project http://subseawellresponse.com/
- ➤ ITOPF webpage and information guides http://www.itopf.com/
- ➤ UK Premiam Page https://www.cefas.co.uk/premiam.aspx?RedirectMessage=true

www.oilspillresponse.com











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