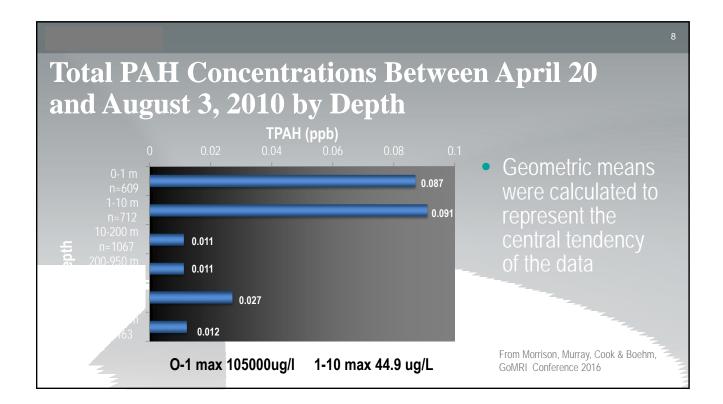
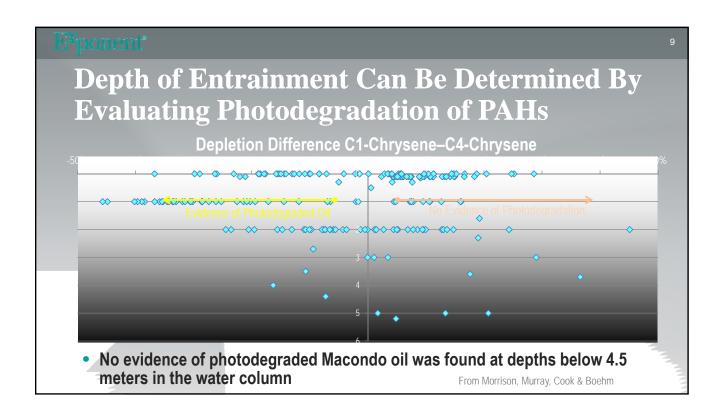
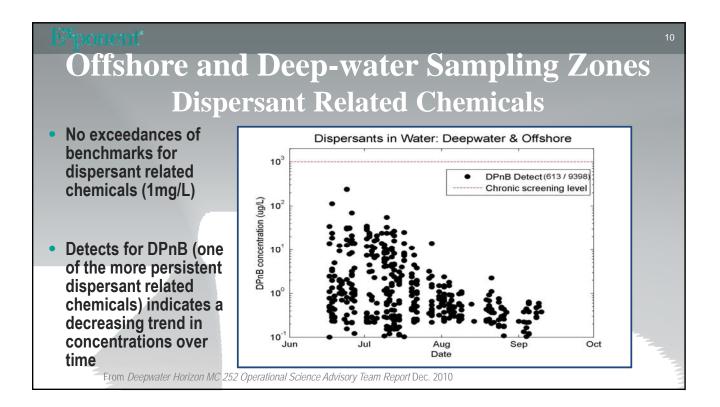


More than 11,500 Whole Water Samples were Collected for DWH between April 20 and August 3, 2010





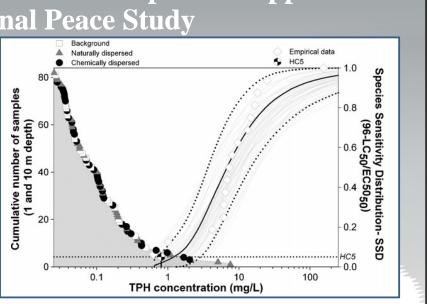


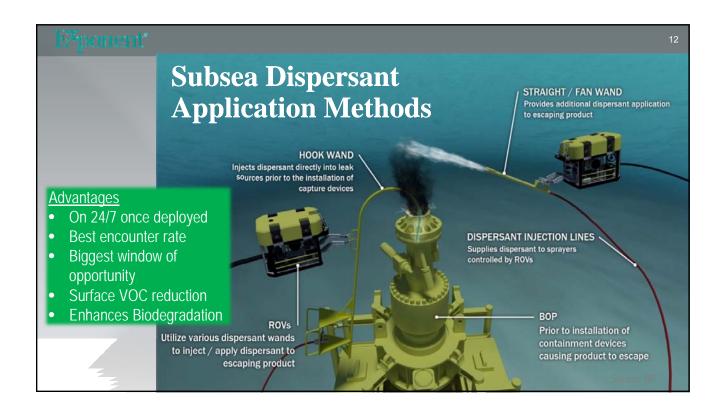
## Exponent.

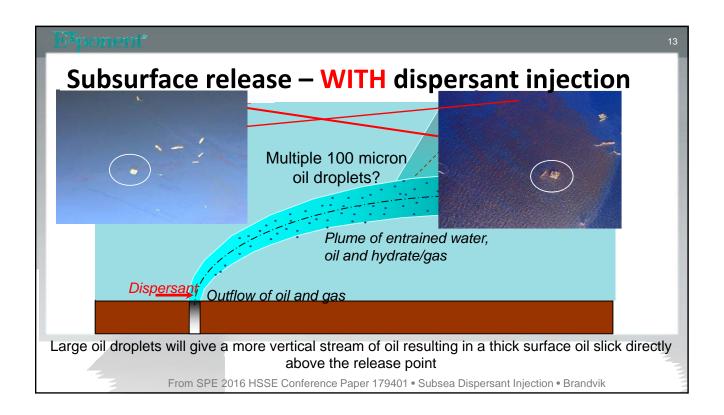
## DWH SMART Tier III Dispersant Application M/V International Peace Study

- Sampling before and after surface dispersant at 1 ad 10 M depth
- TPAH and TPH concentrations variable TPAH <0.01–77.33 μg/L TPH <0.01–5.1 mg/L)</li>
- DPnB concentration <003ug/L to 100 ug/L
- 94% of data below TPH 5% hazard concentration

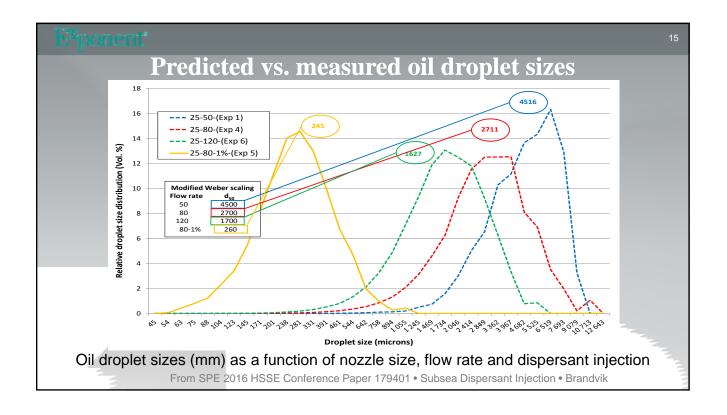
Data from Bejarano, Levine & Mearns 2013

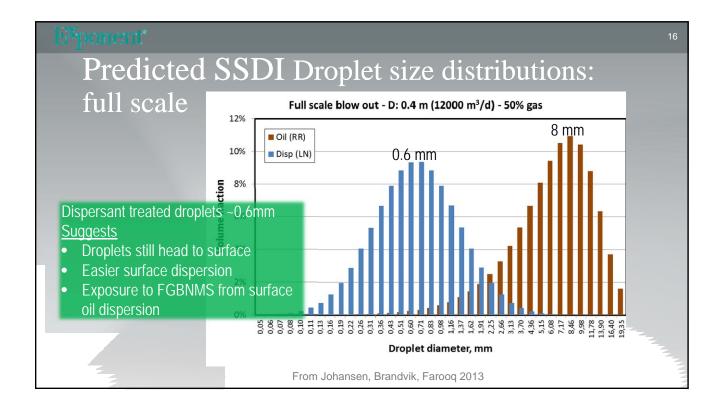












## Image: Summary 17 Summary 9 FGBNMS Scenarios could involve surface or subsea dispersants 9 Subsurface dispersants not likely to create direct exposures 9 Surface oil entrainment with or without dispersants possible concern 0 DWH data suggests concentrations 0 Total PAH geomean of large data set ~ 0.1 ug/L in 0 to10 M 0 Dispersant range - 0.1 to 300 ug/L 0 TPH can be in ppm range 1 M short term below dispersant application 0 Surface entrainment of oil observed during DWH was less than 5M 0 Much new research on subsurface dispersant 0 Closing Comment: review new dispersant research for realistic conditions 0