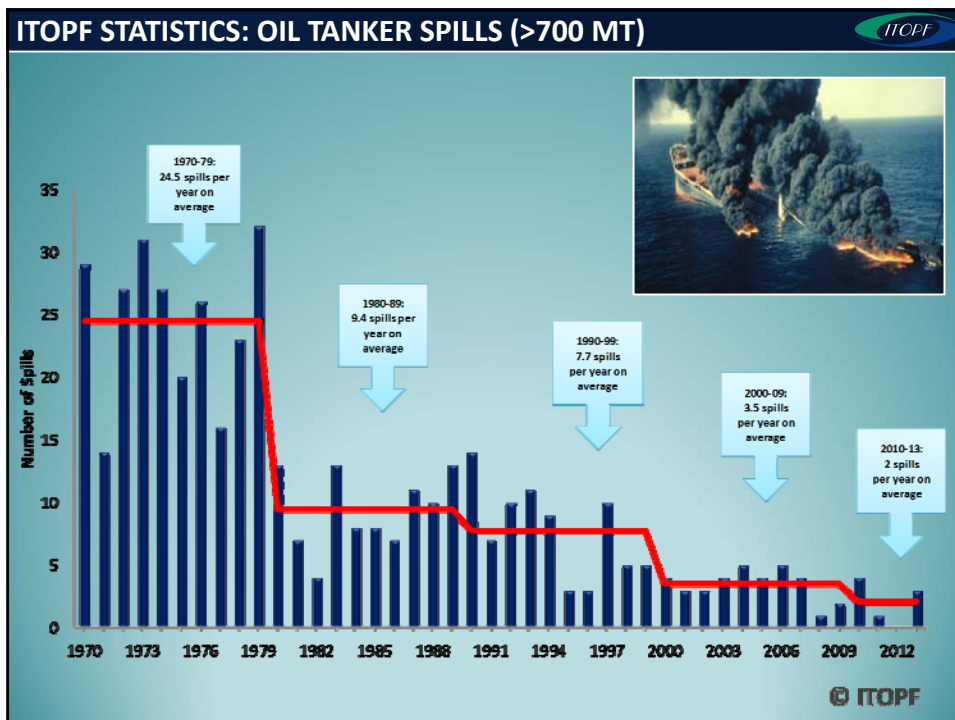


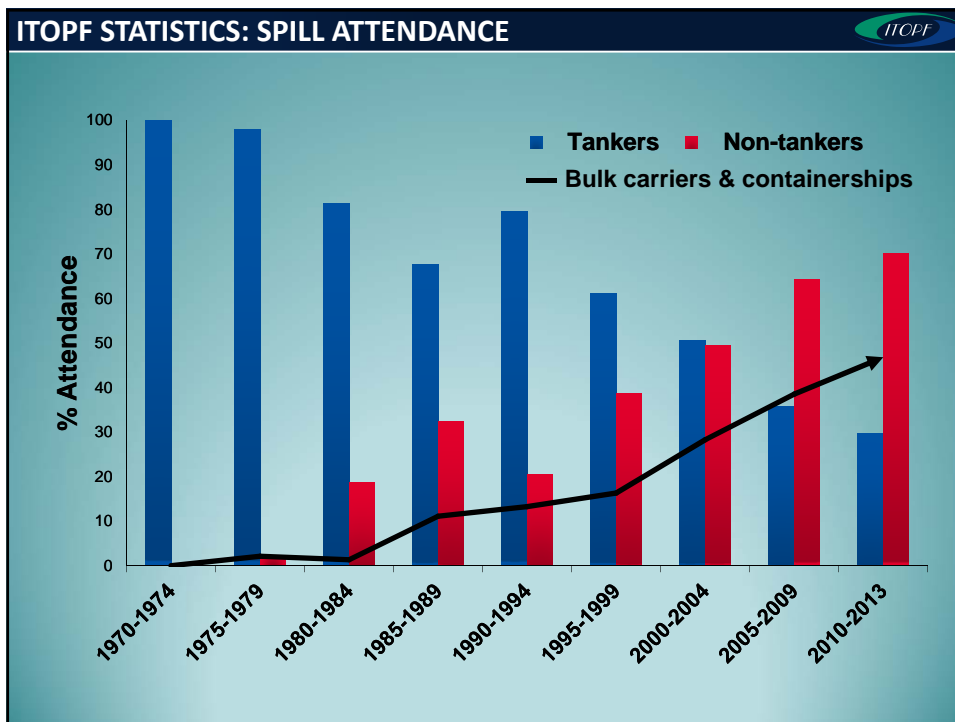
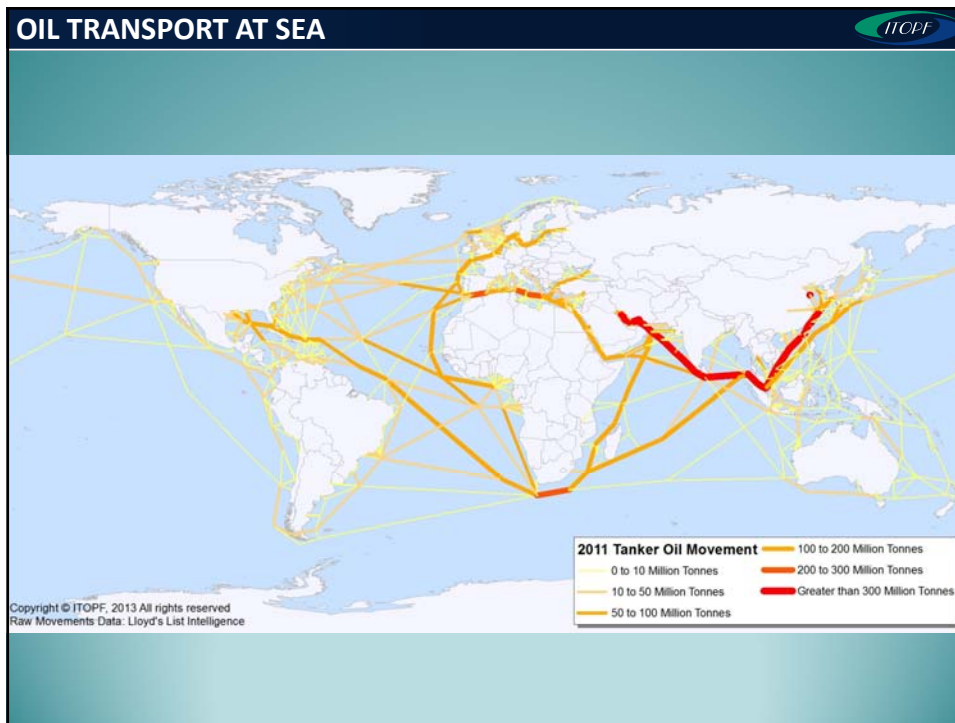


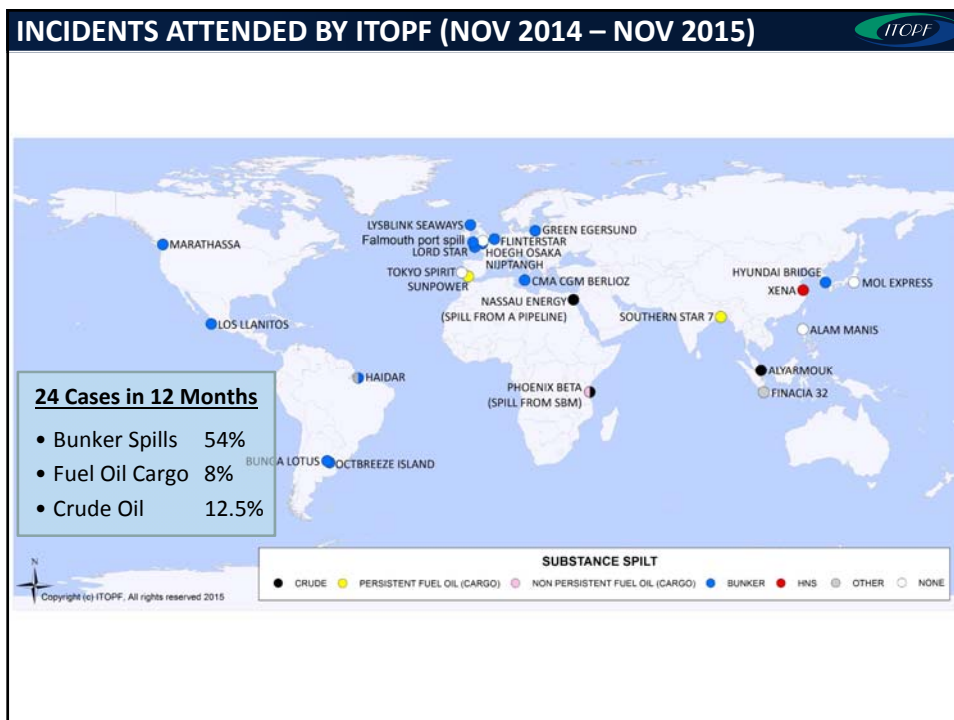

RECENT DEVELOPMENTS & EMERGING TRENDS IN SHIPPING INCIDENTS

Alex Hunt - Technical Team Manager, ITOPF

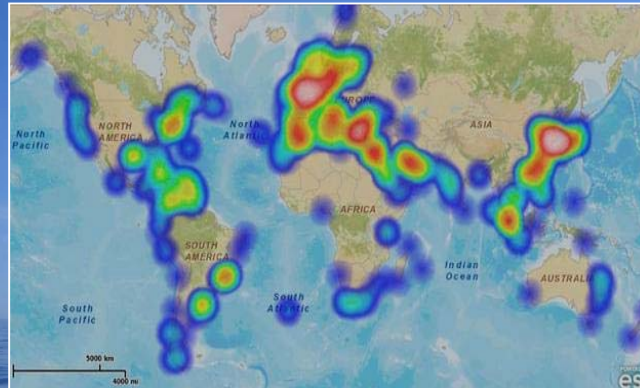
EAS Congress, Da Nang, Vietnam – 18th November 2015







INCIDENT 'HOT SPOTS'



- Spills attended by ITOPF 2004-2014 = 211

1. China	11.2 %
2. South Korea	6.0 %
3. Japan	4.8 %

- 22% of attendances (remainder in 64 different countries)

SPILL RESPONSE DEVELOPMENTS



- Preparedness & response capabilities continue to improve
- Legal framework for preparedness continues to develop
- Some successful international cooperation agreements
- Response strategies to spills at sea largely unchanged
- Incremental benefits of R&D – linked to major incidents



AMOCO CADIZ - 1978



HEBEL SPIRIT - 2007 © ITOPF

CONTAINERSHIP INCIDENTS



MEGA CONTAINERSHIPS



CHEMICAL TANKER INCIDENTS



FUTURE OF SHIP-SOURCED SPILLS?



- Growth in container shipping: 69M – 178M TEU in 15 yrs
 - Increased risk? HNS issues? Lengthy salvage/responses?
- Development of shipping in Arctic waters – esp. NSR
 - Increased risk of spills in challenging remote locations?
- Rapid growth of shipping traffic to China and India
 - Increased risk of oil/HNS spills? Preparedness issues?
- Bunker fuel replacement by LNG
 - Decreased risk of bunker spills from shipping in general?

ITOPF TECHNICAL INFORMATION



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