



## WHAT IS CONDENSATE?





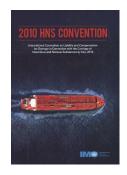


- LOW-DENSITY VOLATILE LIQUID HYDROCARBONS OCCURRING WITH NATURAL GAS
- EXTRACTED ALONGSIDE CRUDE OIL OR SEPARATED FROM NATURAL GAS
- Low viscosity consistency of water and light in colour
- HIGH VALUE 'CRUDE' OILS 'NATURAL GASOLINE' LESS REFINING NEEDED
- USED IN PETROCHEMICAL INDUSTRY AND TO DILUTE HEAVY CRUDE OILS
- Produced worldwide Russia, Middle East, USA, Australia, North Sea



## **LEGISLATION**







### **CARRIAGE**

• MARPOL Annex I — Carried in crude oil tankers

#### **COMPENSATION**

- Non-Persistent Oil CLC and FUND Conventions do not apply
- Condensate would be covered by HNS Convention when in force
- BUNKER SPILLS COVERED BY BUNKERS CONVENTION (IN CONTRACTING STATES)

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## **SHIPPING INCIDENTS**





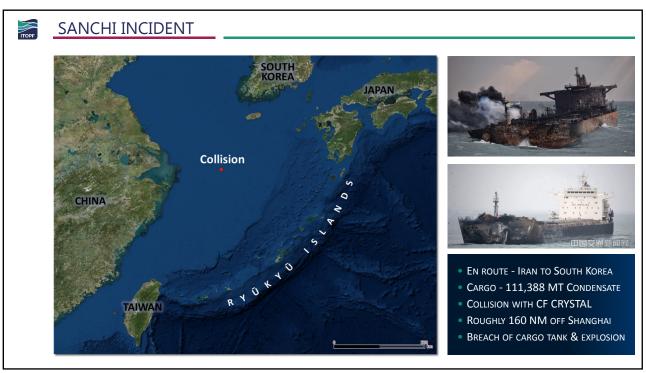
## JUAN ANTONIO LAVALLEJA (28 DEC 1980)

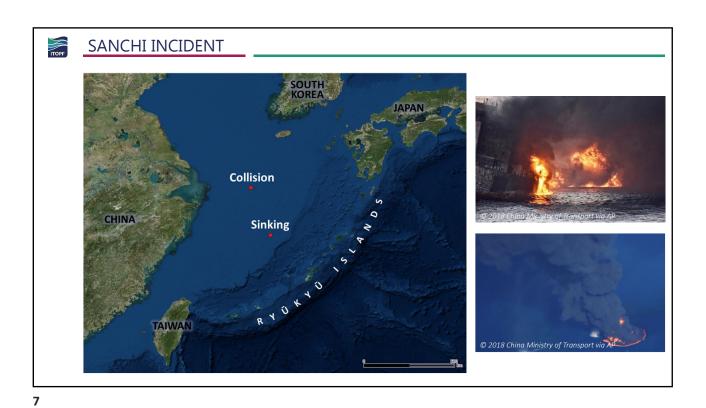
- PORT OF ARZEW, ALGERIA
- 69,000 GT TANKER STRUCK BREAKWATER IN STORM
- Spilled 28,000 Algerian condensate
- ITOPF ATTENDED ON SITE ...

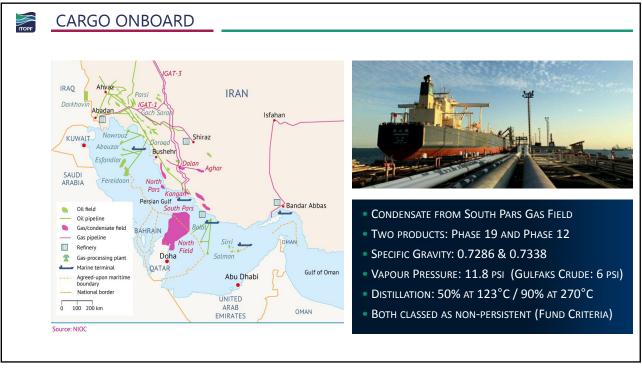
'NO CLEAN-UP REQUIRED... RAPID EVAPORATION & DISPERSION'

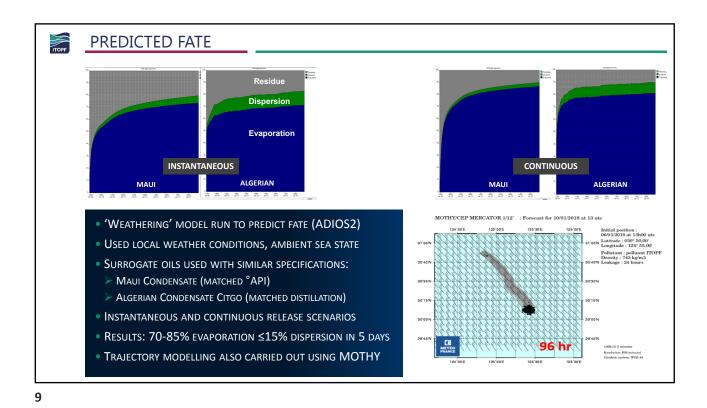
VAPOUR CLOUD REPORTED WITHIN PORT FOR '48 HRS'











ACTUAL FATE

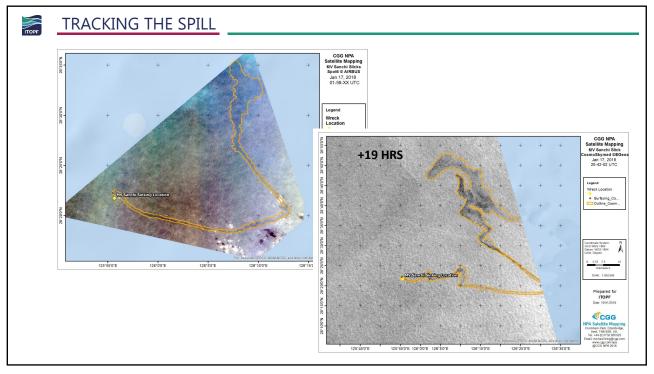


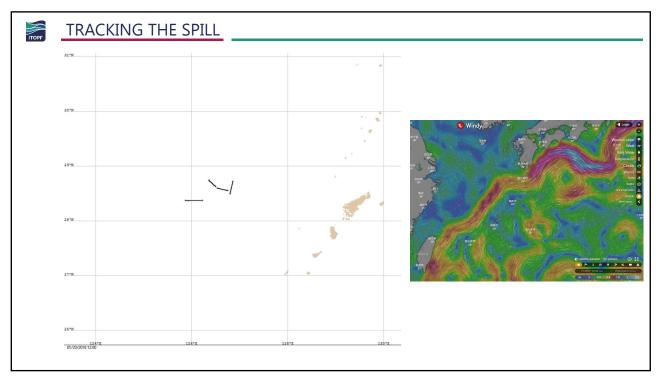








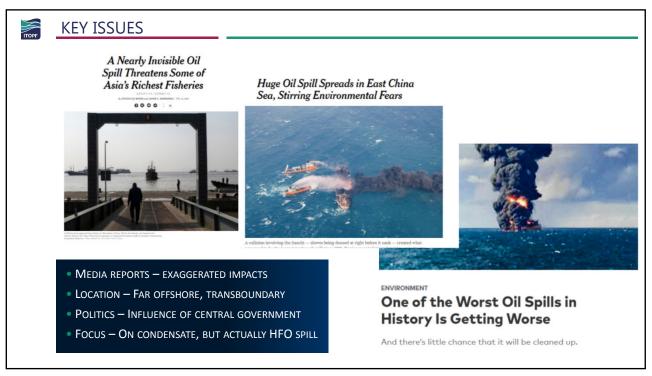
















# CONSIDERATIONS...







- SIMILAR RESPONSE TO OTHER NON-PERSISTENT OILS
- PRIORITY: RISK OF FIRE, EXPLOSIONS, EXPOSURE TO VAPOURS
- SHORT TERM PRESENCE IN MARINE ENVIRONMENT CLEAN-UP?
- LACK OF CLEAN-UP TECHNIQUES WITH TECHNICAL MERIT
- Some strategies actually increase risk containment