




SHIPPING INCIDENTS

RECENT DEVELOPMENTS & EMERGING TRENDS

Alex Hunt
Technical Team Manager (Asia-Pacific), ITOPF

PAJ WORKSHOP – TOKYO, DECEMBER 2017
12 December 2017

INCIDENTS ATTENDED (DEC 2016-2017)



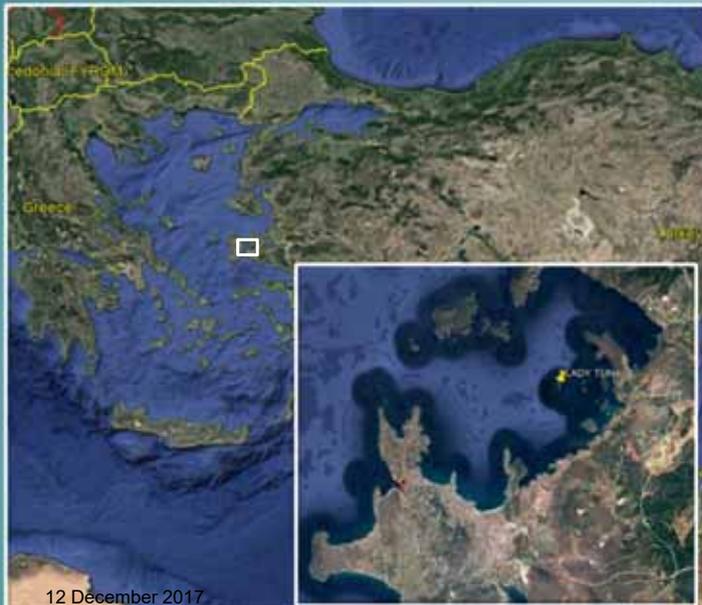

17 INCIDENTS IN 12 MONTHS

- TANKER = 7 (3 CARGO SPILLS)
- NON-TANKER = 9 (7 BUNKER SPILLS)
- MYSTERY SPILL = 1 (CRUDE OIL)

12 December 2017

ITOPF Mobilisations (Onsite mobilisations) ● Non-Tanker mobilisations ● Tanker mobilisations

RECENT INCIDENTS: LADY TUNA (18 DEC 2016)  




- LADY TUNA (4,538 GT; 4,867 DWT)
- REEFER: 1,500 MT FROZEN BLUEFIN TUNA
- RAN AGROUND IN ILDIR BAY, TURKEY
- 789 M³ IFO 180 BUNKERS ONBOARD
- APPROX. 400 M³ OIL SPILLED AT SEA

12 December 2017

RECENT INCIDENTS: LADY TUNA (18 DEC 2016)  







EXTENT OF CONTAMINATION

- SHORELINE CONTAMINATION OVER 15 KM
- MIXED RESIDENTIAL AND COMMERCIAL USE
- KEY CONCERN: HIGH VALUE FISH FARMS
 - SEA BASS (*Dicentrarchus labrax*)
 - SEA BREAM (*Sparus Aurata*)
 - BLUEFIN TUNA (*Thunnus thynnus*)

12 December 2017

RECENT INCIDENTS: LADY TUNA (18 DEC 2016)  





Ministry of Transport, Maritime Affairs and Communications

 Çeşme Harbour Master

COMMAND & CONTROL

- GOOD RELATIONS WITH TURKISH AUTHORITIES: PAST SPILLS AND TRAINING
 - INTEGRATION WITH LOCAL AGENCIES IN RESPONSE
- GOOD RELATIONS WITH NATIONAL OIL SPILL CONTRACTOR: PAST SPILLS
 - ALLOWED DIRECT INPUT TO SPILL RESPONSE OPERATIONS

12 December 2017



RECENT INCIDENTS: LADY TUNA (18 DEC 2016)  




SPILL RESPONSE

- INEFFECTIVE RESPONSE AT-SEA: POOR BOOM DEPLOYMENT
- SHORELINE CLEAN-UP OPERATIONS FOCUSSED ON MANUAL TECHNIQUES
 - BASED ON ITOPF ADVICE: RECOMMENDED AGAINST HEAVY MACHINERY

12 December 2017

RECENT INCIDENTS: LADY TUNA (18 DEC 2016)  



12 December 2017



KEY ISSUE: SUNKEN OIL

- REMOBILISATION OF STRANDED OIL
 - SINKING WITHIN NEARSHORE WATERS
- MANUAL RECOVERY RECOMMENDED
- OIL RESURFACED WITH INCREASED TEMPERATURE

RECENT INCIDENTS: LADY TUNA (18 DEC 2016)  



12 December 2017



KEY ISSUE: RISK TO AQUACULTURE

- FLOATING OIL PASSED THROUGH FISH CAGES
- BOOM DEPLOYED TO DEFLECT OIL FROM FARMS
- ITOPF SURVEYED FARMS TO ASSESS DAMAGE
 - RECORD EXTENT OF CONTAMINATION
 - PROVIDED ADVICE ON DAMAGE MITIGATION
- NO ELEVATED LEVELS OF PAH FOUND IN FISH

RECENT INCIDENTS: LADY TUNA (18 DEC 2016)  



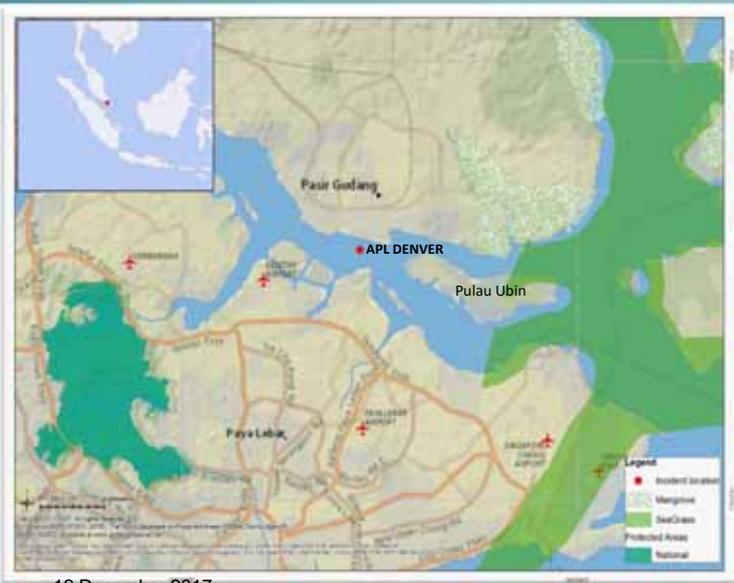


KEY ISSUE: THREAT TO TOURISM

- LUXURY ACCOMMODATION AND SUMMER RESIDENCES OF INFLUENTIAL CITIZENS
- HIGH POLITICAL PRESSURE ON CLEAN-UP
 - > END-POINTS
 - > TIMESCALE
- TO DATE NO CLAIMS RECEIVED

12 December 2017

RECENT INCIDENTS: APL DENVER (3 JAN 2017)   

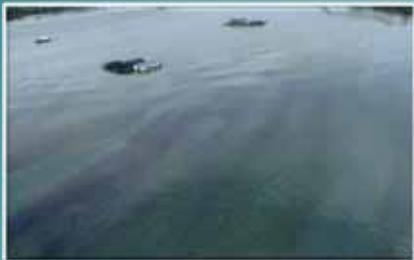




- APL DENVER CONTAINERSHIP (43,071 GT)
- WAN HAI 301 CONTAINERSHIP (26,681 GT)
- COLLISION IN STRAITS OF JOHOR, MALAYSIA
- UP TO 300 MT HFO (IFO 500) SPILLED
- SPILL AFFECTED MALAYSIA AND SINGAPORE

12 December 2017

RECENT INCIDENTS: APL DENVER (3 JAN 2017)   








12 December 2017

EXTENT OF CONTAMINATION

- BEACHES & MANGROVES ON PULAU UBIN
- FISH, MUSSEL & SHRIMP FARMS AFFECTED
 - SINGAPORE AND MALAYSIA
- MINOR EFFECTS ON SINGAPORE ISLAND
- CONTAMINATION WITHIN JOHOR PORT

RECENT INCIDENTS: APL DENVER (3 JAN 2017)   





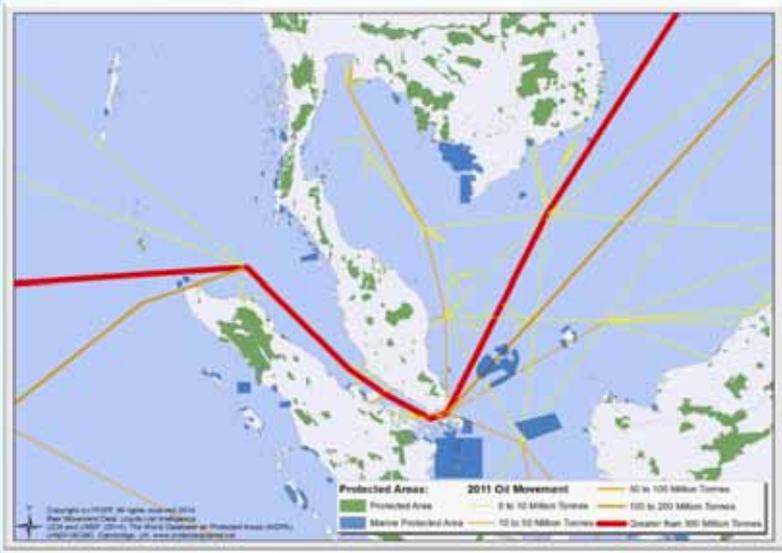


12 December 2017

SPILL RESPONSE

- OVERSEEN BY MPA AND MALAYSIA MOE
- OSRL + SEVERAL LOCAL CLEAN-UP CONTRACTORS
- USE OF SPECIALISED BOOM FOR FAST CURRENTS
- CLEAN-UP OF FISH FARMS WITHIN STRAITS OF JOHOR
- SHORELINE CLEAN-UP AT PULAU UBIN

SINGAPORE STRAIT: HIGH RISK FOR SPILLS




DGST

- VERY BUSY SHIPPING TRAFFIC
- NARROW STRAIT (1.46 NM)
- RECURRENT COLLISIONS (3 IN 2017)
- COMPLICATED RESPONSE
 - TRANS-BOUNDARY SHIPPING TRAFFIC

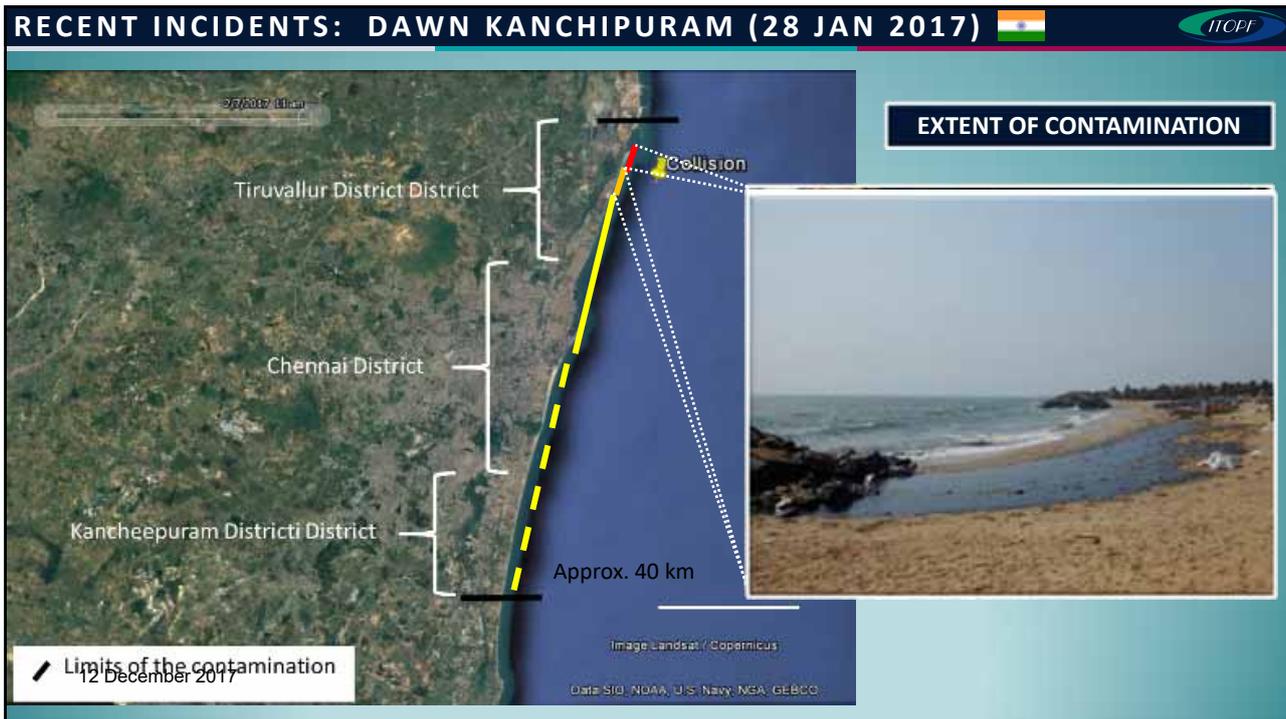
12 December 2017

RECENT INCIDENTS: DAWN KANCHIPURAM (28 JAN 2017)




- DAWN KANCHIPURAM - PRODUCT TANKER (29,141 GT)
- BW MAPLE - LPG TANKER (47,386 GT)
- COLLISION 2 NM FROM ENNORE PORT, CHENNAI
- CARGO: GASOLINE AND HIGH SPEED DIESEL
- ESTIMATED UP TO 300 MT IFO 180 SPILLED AT SEA

12 December 2017



RECENT INCIDENTS: DAWN KANCHIPURAM (28 JAN 2017)

GOVERNMENT

- Indian Coast Guard
- TN Pollution Control Board
- DG Shipping
- District Collectors
- Police

SHIPOWNER

- Shipowner
- Management Company
- Appointed Contractors

P&I CLUB(S)

- P&I Club correspondent
- P&I Club surveyor
- Technical support

PORTS

- Kamarajar
- Ennore
- Chennai
- Adani

12 December 2017

OIL IND.

- IOC
- BPCL
- CPCL

COMMAND & CONTROL

- INDIAN COAST GUARD TOOK LEAD ON AT-SEA RESPONSE
- LACK OF PREPAREDNESS IN STATE OF TAMIL NADU
- NO LEAD AUTHORITY FOR SHORELINE CLEAN-UP
 - DECISIONS BY COMMITTEE
- LARGE MOBILISATION OF PERSONNEL
 - DIFFICULT TO CONTROL AND COORDINATE

RECENT INCIDENTS: DAWN KANCHIPURAM (28 JAN 2017)  



12 December 2017

SPILL RESPONSE

EMERGENCY PHASE

- AT-SEA RESPONSE LIMITED TO PORTS
- INITIAL FOCUS ON MANUAL RECOVERY
- INEFFECTIVE TECHNIQUES + SAFETY ISSUES
- MASSES OF WASTE + 2° CONTAMINATION

PROJECT PHASE

- SHIPOWNER TOOK OVER RESPONSE
- CONTRACTORS APPOINTED (ITOPF ADVICE)
- CLEAN-UP PLAN PRODUCED (DRAFTED BY ITOPF)
- IMPROVED COORDINATION + EFFECTIVE TECHNIQUES
- JOINT SURVEYS (ORGANISED BY ITOPF)
- FINAL SIGN OFF OF CLEAN-UP IN MID-APRIL

RECENT INCIDENTS: DAWN KANCHIPURAM (28 JAN 2017)  

KEY ISSUES



DIFFICULT ACCESS



HEALTH & SAFETY



PUBLIC DEMONSTRATIONS

RECENT INCIDENTS: DAWN KANCHIPURAM (28 JAN 2017) 



12 December 2017



FISHERIES IMPACTS

- NO FISHING BAN PUT IN PLACE BY GOVERNMENT
- NO REPORTS OF 'OIL TAINTING' OF WILD STOCK
- SOME PROPERTY DAMAGE TO BOATS + FISHING GEAR
- 95% CLAIMED LOSSES RELATED TO MARKET CONFIDENCE
- CLAIMS UNDER REVIEW BY P&I CLUB + ADVISERS

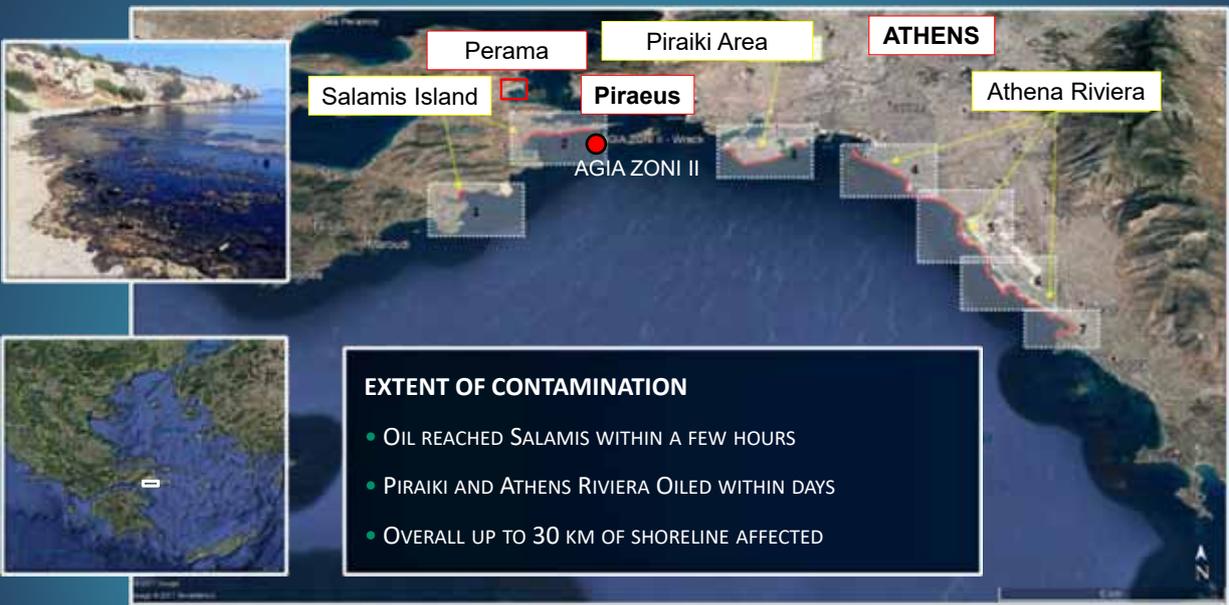
RECENT INCIDENTS: AGIA ZONI II (10 SEP 2017)  





- AGIA ZONI II (1,597 GT; 3,205 DWT)
- GREEK FLAGGED; BUILT IN 1972
- BUNKER BARGE: 2,362 MT HFO
- SANK IN PIRAEUS ANCHORAGE 02:30
- ESTIMATED 700 M³ OIL SPILLED AT SEA

RECENT INCIDENTS: AGIA ZONI II (10 SEP 2017) 

EXTENT OF CONTAMINATION

- OIL REACHED SALAMIS WITHIN A FEW HOURS
- PIRAIKI AND ATHENS RIVIERA OILED WITHIN DAYS
- OVERALL UP TO 30 KM OF SHORELINE AFFECTED

RECENT INCIDENTS: AGIA ZONI II (10 SEP 2017) 




COMMAND & CONTROL

- GREEK GOVERNMENT HAS OVERALL RESPONSIBILITY UNDER NATIONAL CONTINGENCY PLAN
 - MARINE ENVIRONMENT PROTECTION DIVISION OF MINISTRY OF MERCANTILE MARINE (HELLENIC COAST GUARD)
- SHIPOWNER EXPECTED TO ORGANISE RESPONSE
 - GREEK SALVOR SPANOPOULOS CONTRACTED BY SHIPOWNER – SIX LOCAL CLEAN-UP COMPANIES SUB-CONTRACTED UNDER SALVOR

RECENT INCIDENTS: AGIA ZONI II (10 SEP 2017)  

RESPONSE AT SEA

- ITOPF & CONTRACTORS CARRIED OUT JOINT AERIAL SURVEILLANCE
- LOCAL CONTRACTORS DEPLOYED SMALL OIL RECOVERY VESSELS
 - RECOVERING OIL AT WRECK SITE AND IN NEARSHORE WATERS
- EMSA DEPLOYED LARGER SPILL RESPONSE VESSEL (AKTEA OSRV)
 - TANKER FITTED WITH RIGID SWEEPING ARMS, BOOM AND SKIMMER
- EXTENSIVE BOOM DEPLOYMENT FOR SHORELINE PROTECTION

RECENT INCIDENTS: AGIA ZONI II (10 SEP 2017)  

SHORELINE CLEAN-UP

- CLEAN-UP ACTIVITIES CARRIED OUT ACROSS SEVERAL MUNICIPALITIES
- OPERATIONS DRIVEN BY POLITICAL PRESSURE RATHER THAN TECHNICAL CRITERIA
 - SITE PRIORITISATION, RESOURCE ALLOCATION AND CLEAN-UP TECHNIQUES
- LACK OF OVERALL COORDINATION AND COMPETITION BETWEEN CONTRACTORS
 - SLOW PACE OF WORK, UNCLEAR PLAN, LACK OF COMMUNICATION ON SITE
- REMOVAL OF BEACH MATERIAL RATHER THAN IN-SITU CLEANING
 - EXCESSIVE WASTE PRODUCTION + HIGHLY EXCESSIVE DISPOSAL COSTS
 - ADVISED TO USE CEMENT MIXER TO CLEAN RECOVERED SEDIMENT
- CLEAN-UP IS ONGOING IN DECEMBER – ITOPF REMAIN ON SITE

RECENT INCIDENTS: AGIA ZONI II (10 SEP 2017)  



KEY ISSUE: SUNKEN OIL

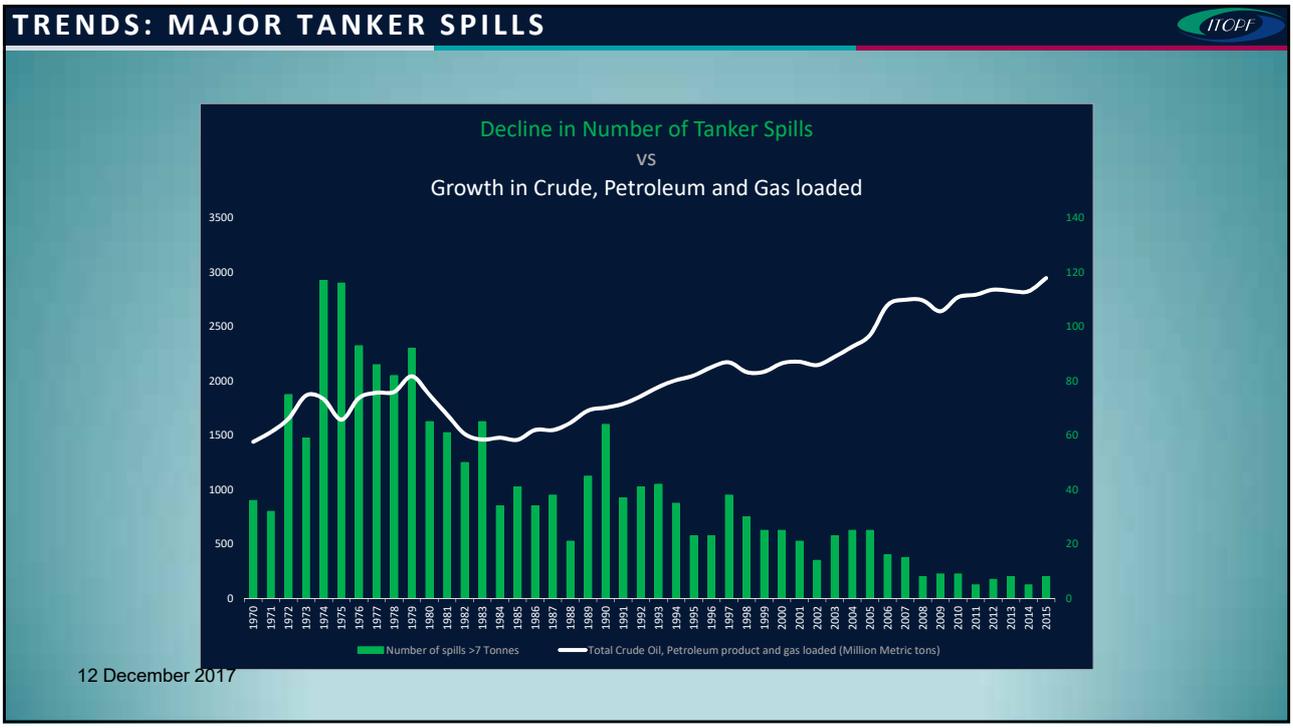
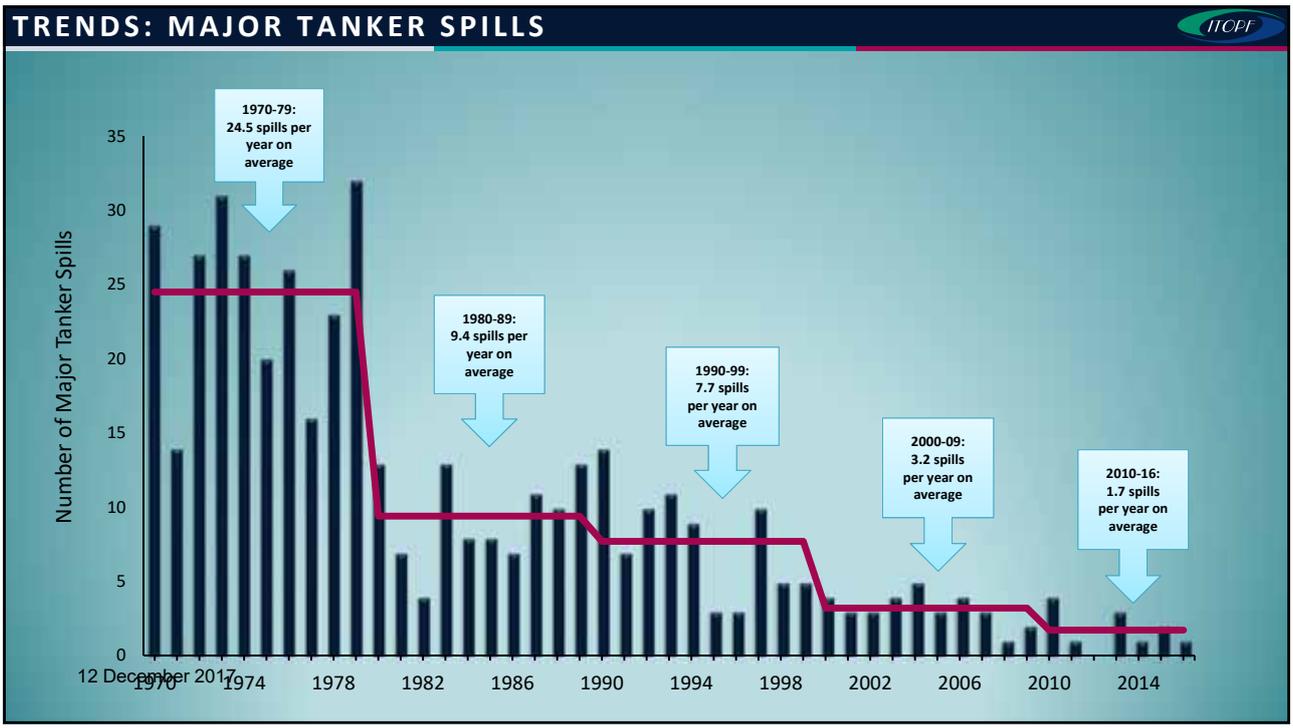
- EXTENSIVE AREAS ALONG RIVIERA AND SALAMIS
- MANUAL RECOVERY: WADING AND DIVING
- DIVER-OPERATED SUCTION HOSES ALSO USED

RECENT INCIDENTS: AGIA ZONI II (10 SEP 2017)  

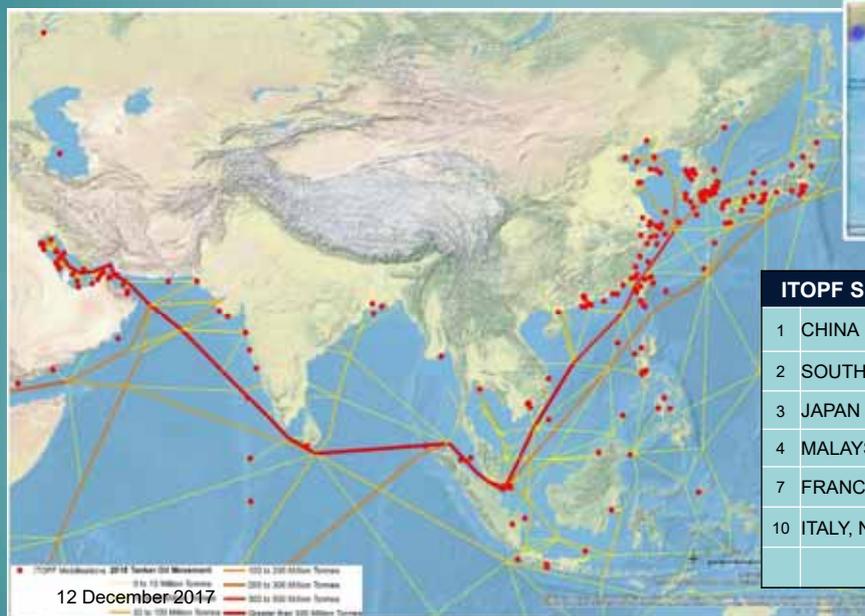


COMPENSATION

- EXTENT OF CLAIMS IS UNKNOWN
- CLC 92 LIMIT = €5.36M
- FUND 92 + SUPPLEMENTARY FUND
- €241M AVAILABLE UNDER FUND 92



TRENDS: GLOBAL 'HOT SPOTS'



ITOPF SPILLS ATTENDED (2007-2017) = 206			
1	CHINA	20	9.7%
2	SOUTH KOREA	12	5.8%
3	JAPAN	9	4.4%
4	MALAYSIA, SINGAPORE, SPAIN, UK	8	3.9%
7	FRANCE, GREECE, TAIWAN	7	3.4%
10	ITALY, NORWAY	6	2.9%
SUB-TOTAL		62	30.1%

TRENDS: CONTAINERSHIP INCIDENTS



12 December 2017

THE FUTURE OF SHIPPING SPILLS?




World Maritime News
GasTech

- Continued growth in shipping traffic to/through East Asia (oil & chemicals)
 - Increased risk of spills near major ports + from passing ships?
- Growth in container shipping: 69M – 178M TEU in 15 years
 - Increased risk? HNS issues? Lengthy salvage/ response?
- Potential widespread replacement of bunker oil with LNG?
 - Decreased risk of bunker spills from shipping?

12 December 2017

2017 ... A YEAR TO REFLECT







12 December 2017

THE KEY TO EFFECTIVE RESPONSE?



1979 Oil Spill Conference

TEN-YEAR OVERVIEW OF OIL SPILL CLEAN-UP AT SEA

J. J. Allen, J. A. Smith, and J. L. ...
 Director, International Oil Pollution Compensation Fund
 Director, International Oil Pollution Compensation Fund
 Director of the World Bank

Conclusion

Having been involved with practically every major oil spill from tankers over the past few years, we remain convinced that there is no panacea. From our experience the key to efficient cleanup is a combination of good contingency planning, organization, and control. All are important, and any amount of equipment or advanced technology will not compensate if one or all are lacking.

Regrettably, this message seems still to go unheeded in many countries of the world, even those which have had several major oil spills in the past. If oil spills are to be dealt with effectively in the future so that damage is reduced and the wastage of money, labour, materials, and equipment is minimized, much more effort must be made to learn from experience and from previous mistakes.

12 December 2017