

43<sup>rd</sup> Shared Awareness Meeting (SAM)

# Marine Security Update

Brief lessons from X-PRESS PEARL

**David Campion**  
Head of Singapore Office

**Asian Shipowners' Association**  
16<sup>th</sup> February 2023



# ITOPF

## BACKGROUND

TORREY CANYON (1967)



1970 - 1980



1990 - 2000



50  
Years  
1968 - 2018



**1968:** The **International Tanker Owners Pollution Federation** is founded to administer the **TOVALOP**

ITOPF develops its **technical services** through attendance of numerous **large tanker incidents**

ITOPF's services formally extended to **other types of ships**

### Main Function

Today ITOPF's members and associates represent **90% of all ocean going tonnage**

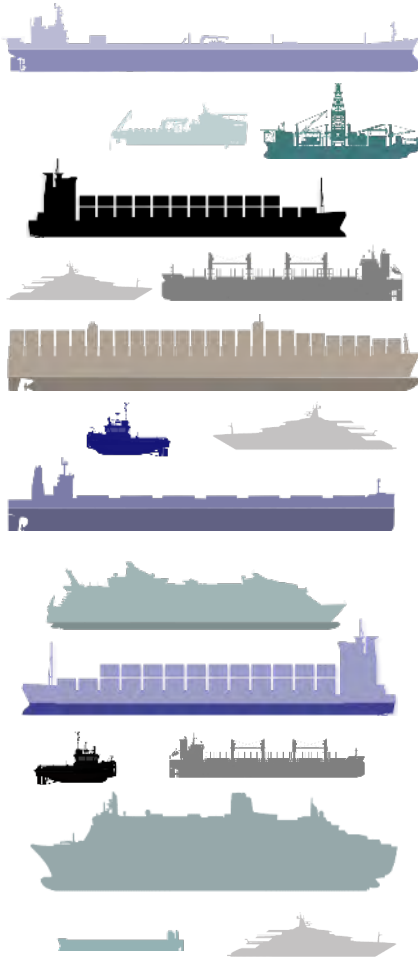
Technical advice on effective response to spills of **oil, chemicals and other substances** in the marine environment.

Primarily funded by the **global shipping industry** (annual fee), operating on a **non-for profit** basis.

# ITOPF

## BACKGROUND

### ITOPF'S SHIPOWNER MEMBERS & ASSOCIATES



FUNDING



TECHNICAL ADVICE

### SPILL RESPONSE COMMUNITY & STAKEHOLDERS



# ITOPF

## BACKGROUND



**Multi-lingual**  
Fluency in English,  
Spanish, French, Japanese  
Portuguese,  
Mandarin...



**Multi-skilled**  
Biologists, Chemists,  
Environmental  
Scientists, Geologists,  
Engineers

LONDON



SINGAPORE



**41**  
ITOPF STAFF

**18**  
RESPONDERS



**24/7**  
365

TECHNICAL

**5**

SERVICES



**+44 (0)20 7566 6998.**  
(Please do not email for an emergency situation)



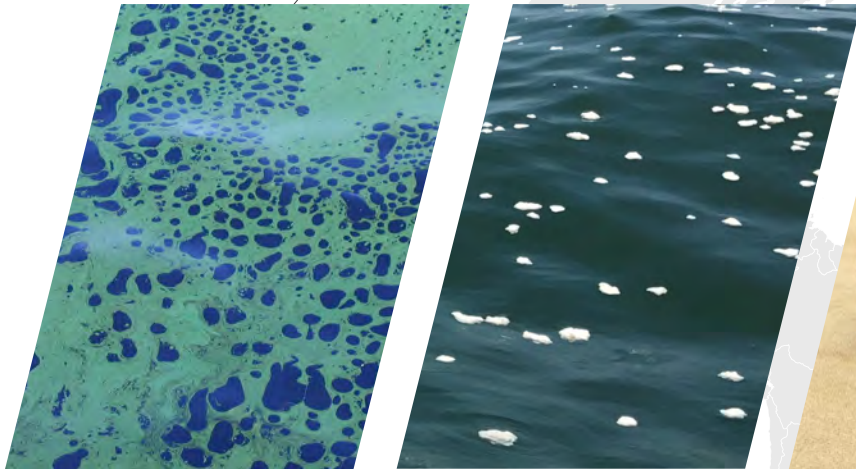
## ITOPF'S AIM:



# ITOPF'S REMIT:



## MINERAL & VEGETABLE OILS



## OTHER SUBSTANCES CARRIED BY SHIPS



## CHEMICALS

# ITOPF

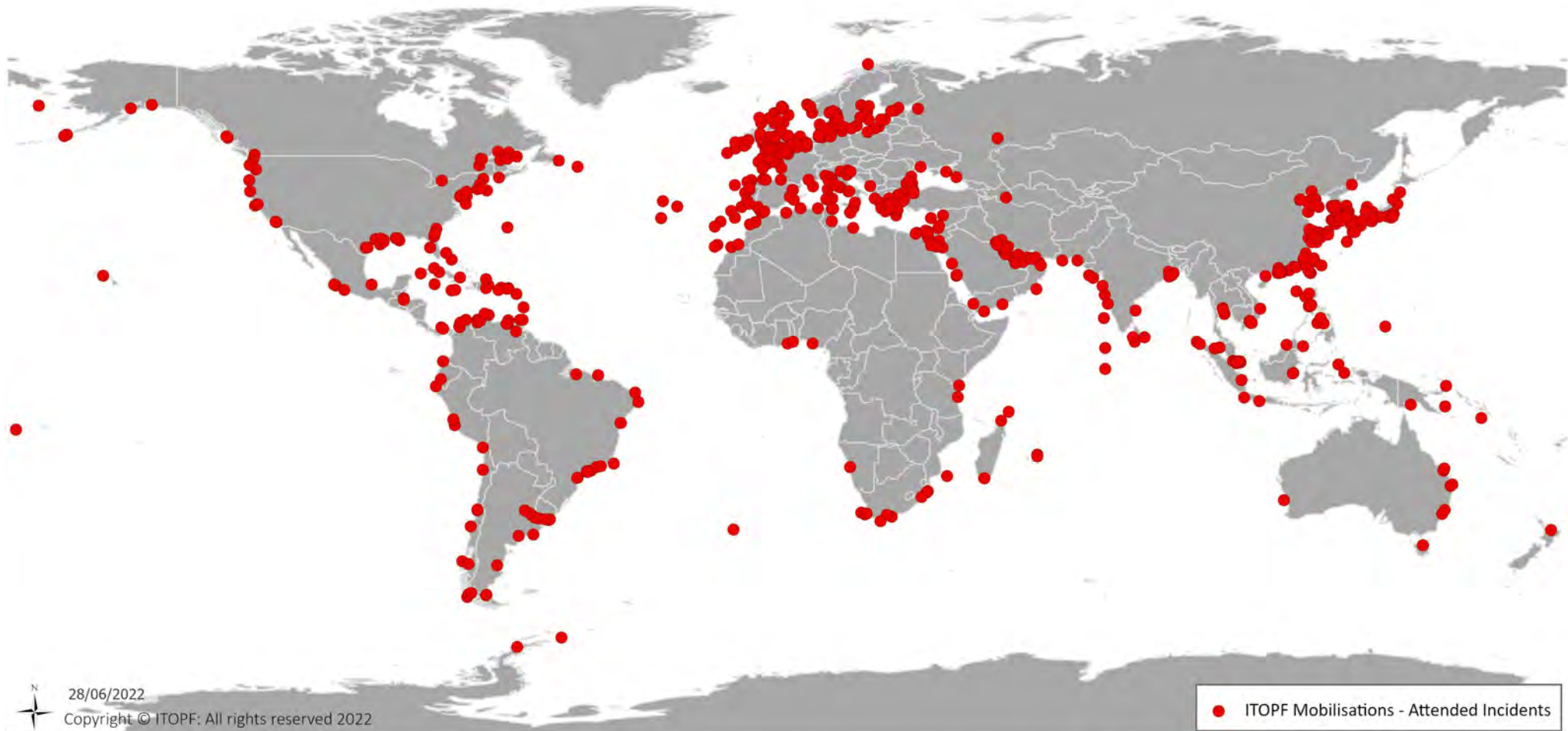
## STATISTICS

### Attended Spills 1970 - 2020

> 800  
incidents

in 100  
countries

Avg.  
20-30  
spills/yr



# X-PRESS PEARL

Sri Lanka  
May 20<sup>th</sup> 2021





**Vessel:** Containership X-PRESS PEARL  
**GT:** 30,911  
**Location:** Port of Colombo Anchorage, Sri Lanka  
**Oil onboard:** 320 MT LSHFO  
**Containers on board:** 1,486  
**DG Containers:** 81  
**Containers with plastics:** 422



## Timeline

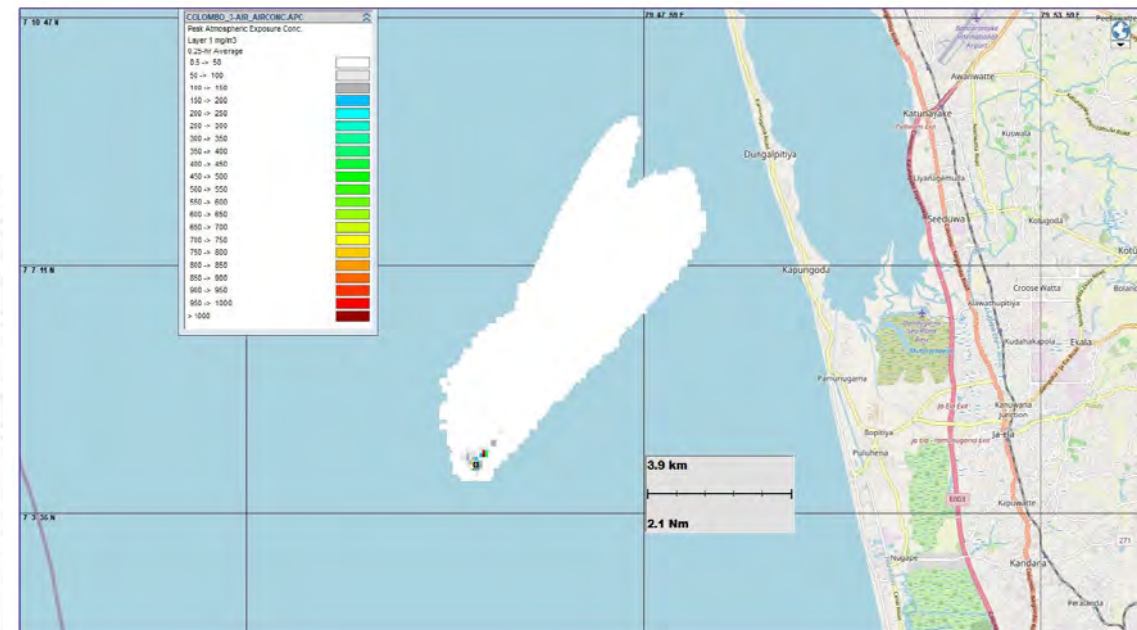
20.05.21	Fire breaks out
25.05.21	Fire becomes out of hand and crew are evacuated
02.06.21	Vessel sinks

# HNS

DG Containers: 81

DG Substances: 15

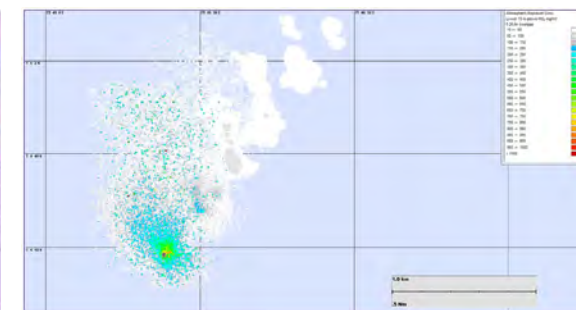
Number	UN	Class	Proper Shipping Name
1	3170	4.3	ALUMINIUM REMELTING BY-PRODUCTS
2	1013	2.2	CARBON DIOXIDE
3	3082	9	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
4	1044	2.2	FIRE EXTINGUISHERS, with compressed or liquefied gas
5	3480	9	LITHIUM ION BATTERIES (including lithium ion polymer batteries), transported in accordance with special provision 376 or 377
6	1230	3	METHANOL
7	2031	8	NITRIC ACID, other than red fuming, with more than 70% nitric acid
8	1266	3	PERFUMERY PRODUCTS with flammable solvents
9	2211	9	POLYMERIC BEADS, EXPANDABLE evolving flammable vapour
10	1866	3	RESIN SOLUTION, flammable
11	1824	8	SODIUM HYDROXIDE SOLUTION
12	1823	8	SODIUM HYDROXIDE, SOLID
13	1431	4.2	SODIUM METHYLATE
14	1289	3	SODIUM METHYLATE SOLUTION in alcohol
15	1301	3	VINYL ACETATE, STABILIZED



**Nitric Acid Vapours**



**Vinyl Acetate**



**Methanol**

(All models for 15 min exposure limits at < 10m above MSL)

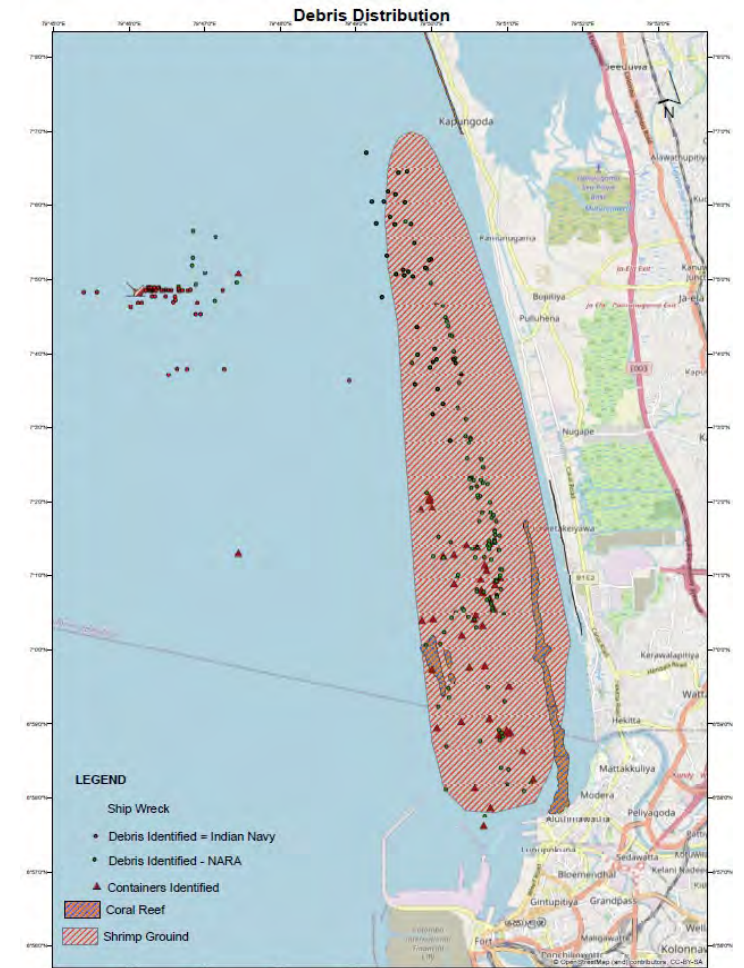
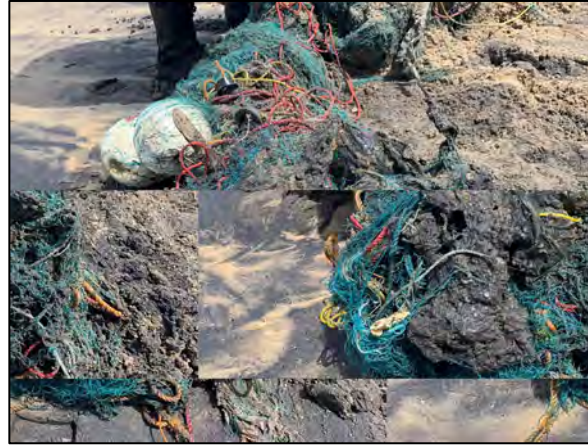
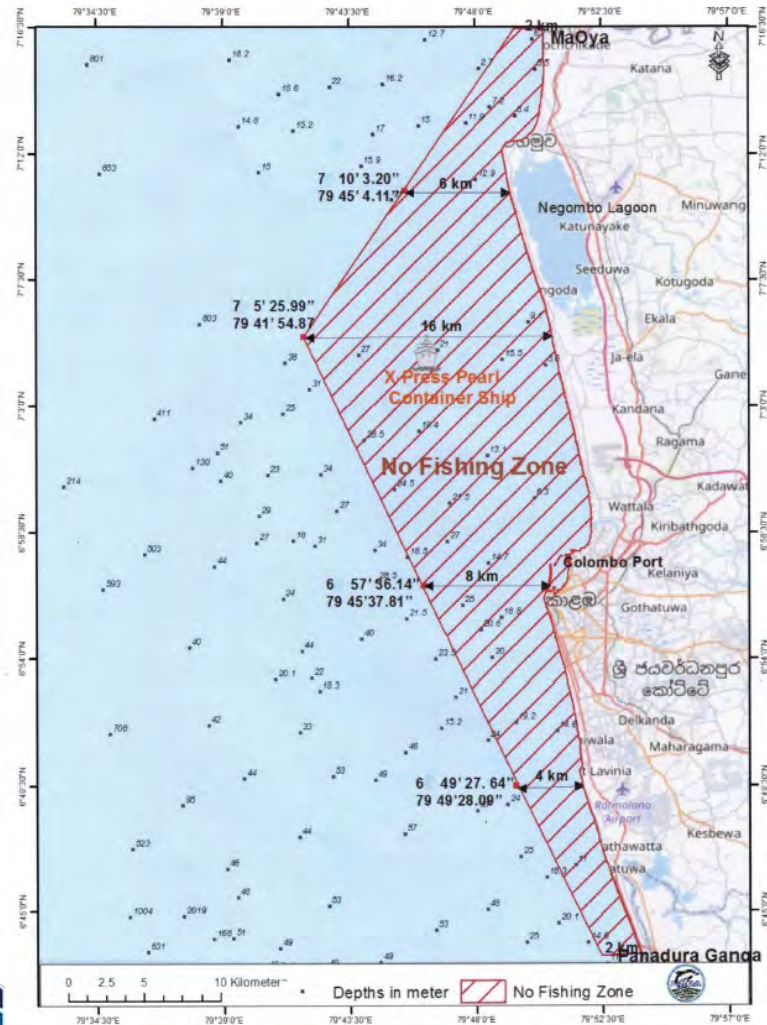
## Review and exercise HNS Contingency Plans

Processing and distribution of documents

Contacts for risk assessment

Modelling

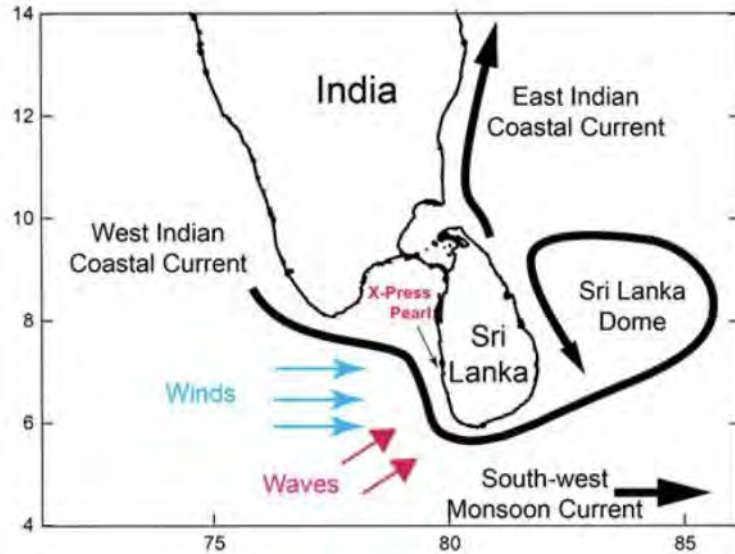
# FALLEN DEBRIS



## PLASTICS / NURDLES



# PLASTICS / NURDLES



*HIGHLY MOBILE*  
*DYNAMIC CLEANUP*  
*UNKNOWN ENV.  
CONSEQUENCES*



**Shipping incidents can have potential implications for the fisheries and tourism sector**

**Well co-ordinated, timely response can limit overall impacts, especially for nurdles**

THANK  
YOU

