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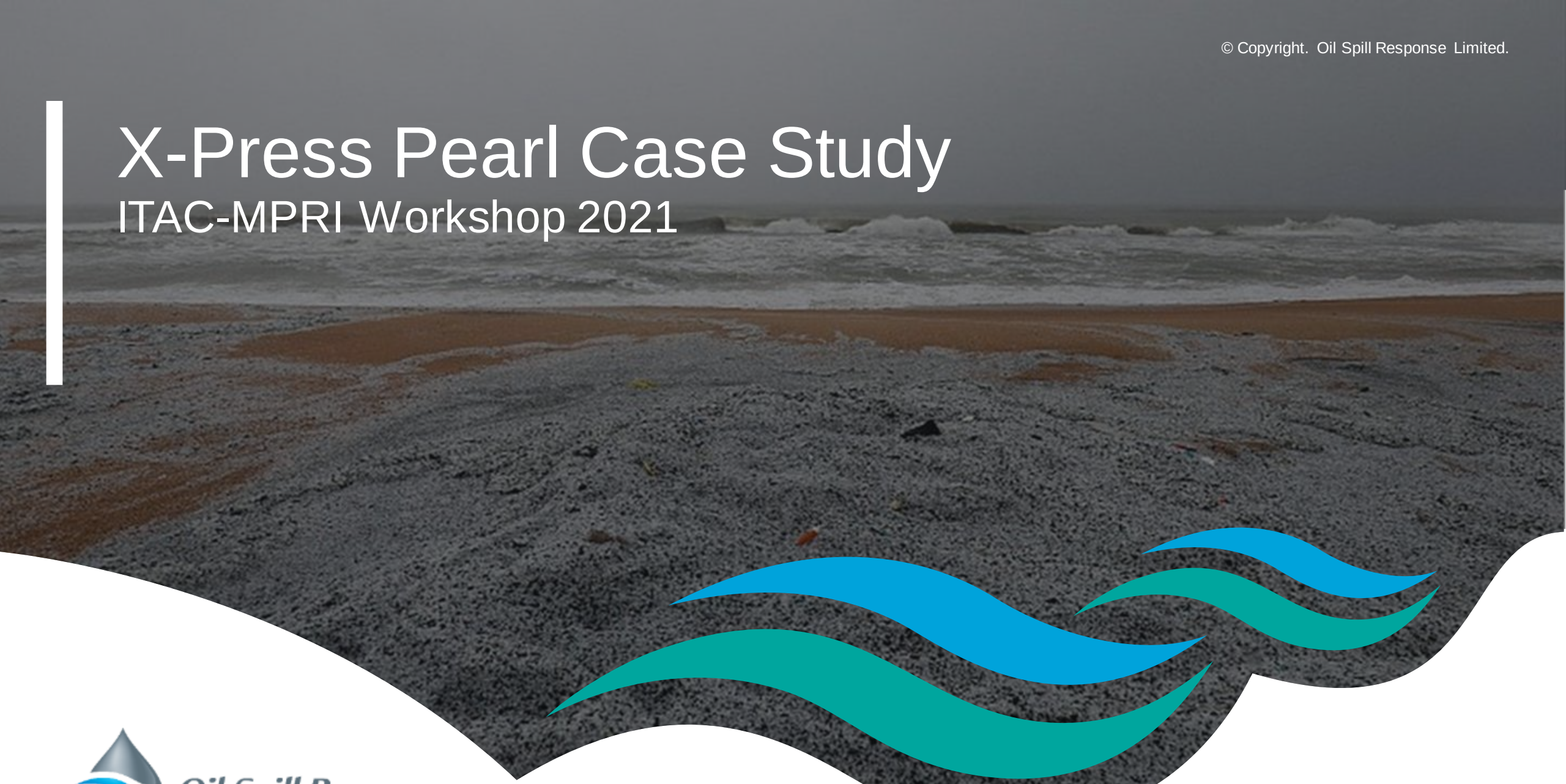
X-Press Pearl Case Study

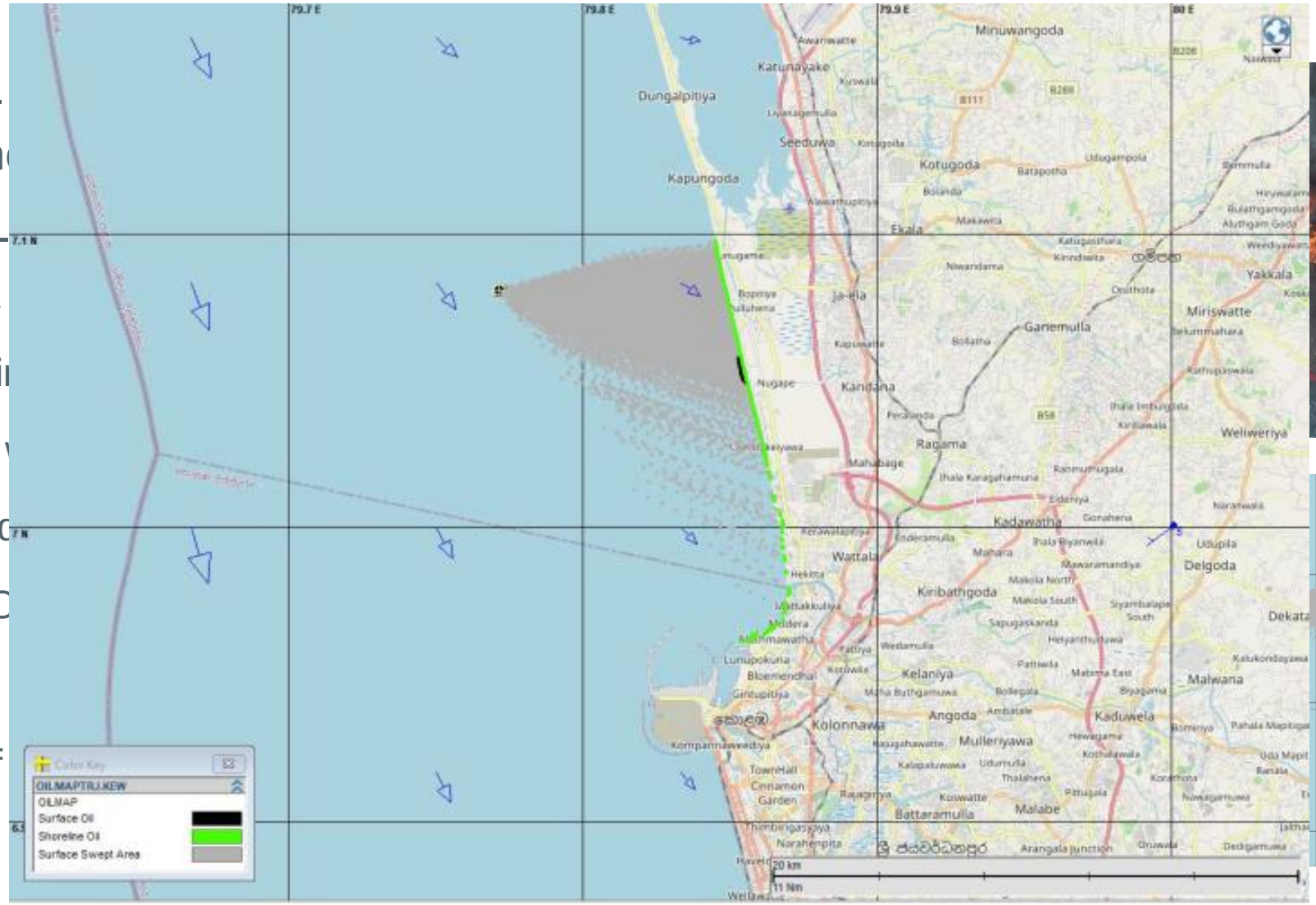
ITAC-MPRI Workshop 2021

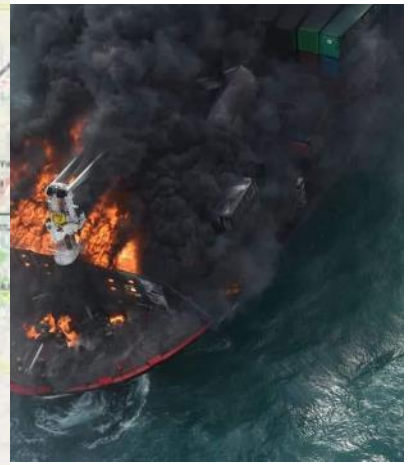


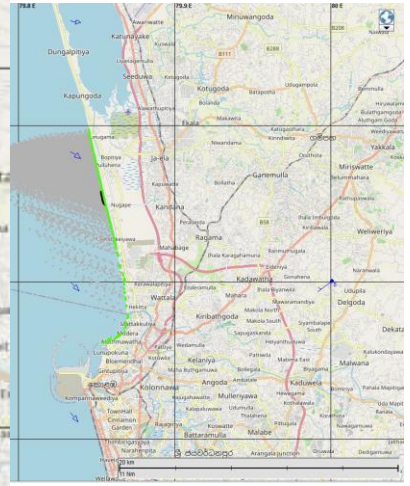
Oil Spill Response

Incident Overview/Background

- 20/05/2021 -
  PEARL anch
- 25/05/2021 -
  An initial risk
  - 1486 contai
  - 81 of these
  - 15 'DG' prod
  - 300 m³ HFO
- Initial oil spill
- Major loss of







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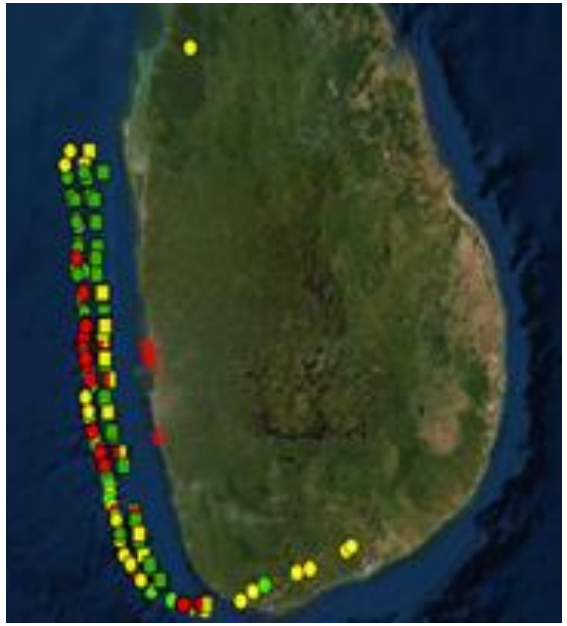
Vessel

OSRL Roles & Responsibilities

- Hydrocarbon pollution response (standby)
- Plastics pollution / contamination
  - Shoreline surveys – coordination and mapping
  - In-field response oversight
  - Advocating good practise
  - Developing response tactics



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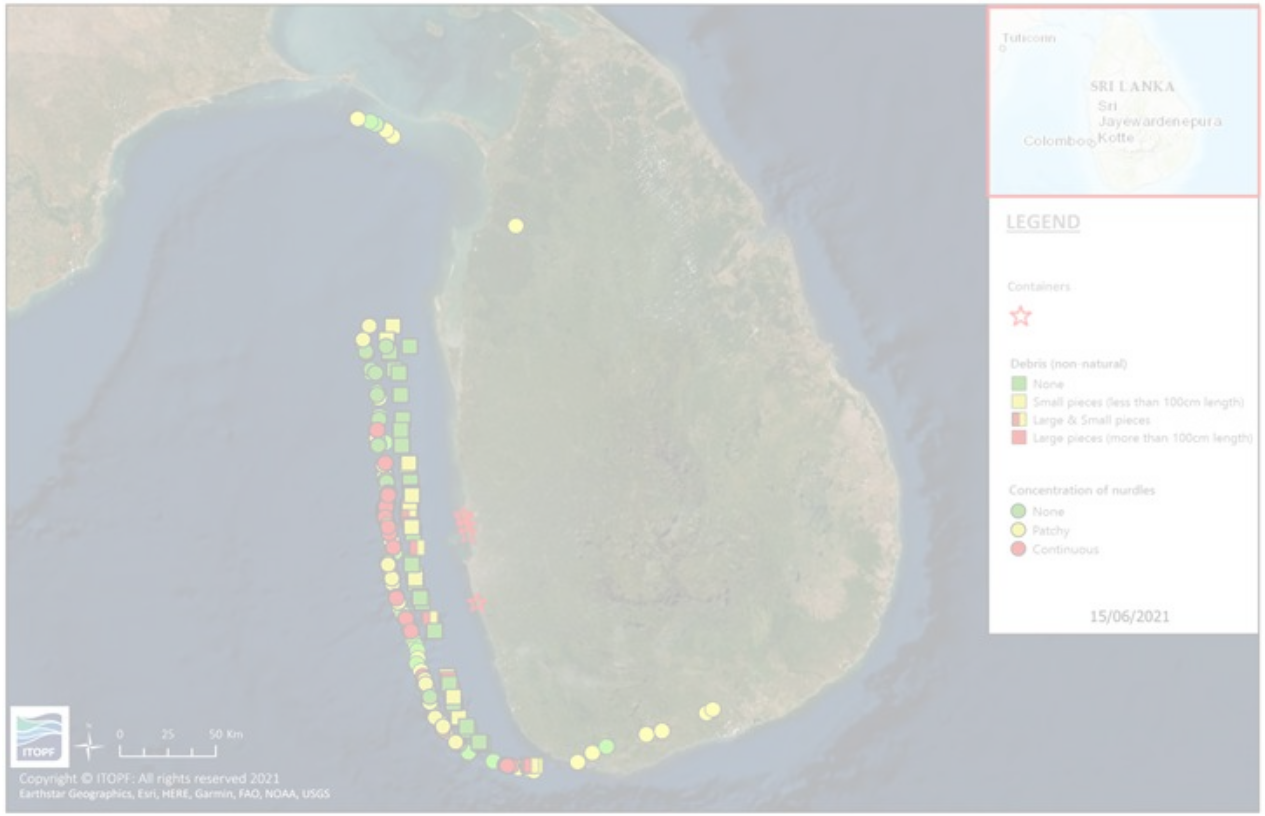
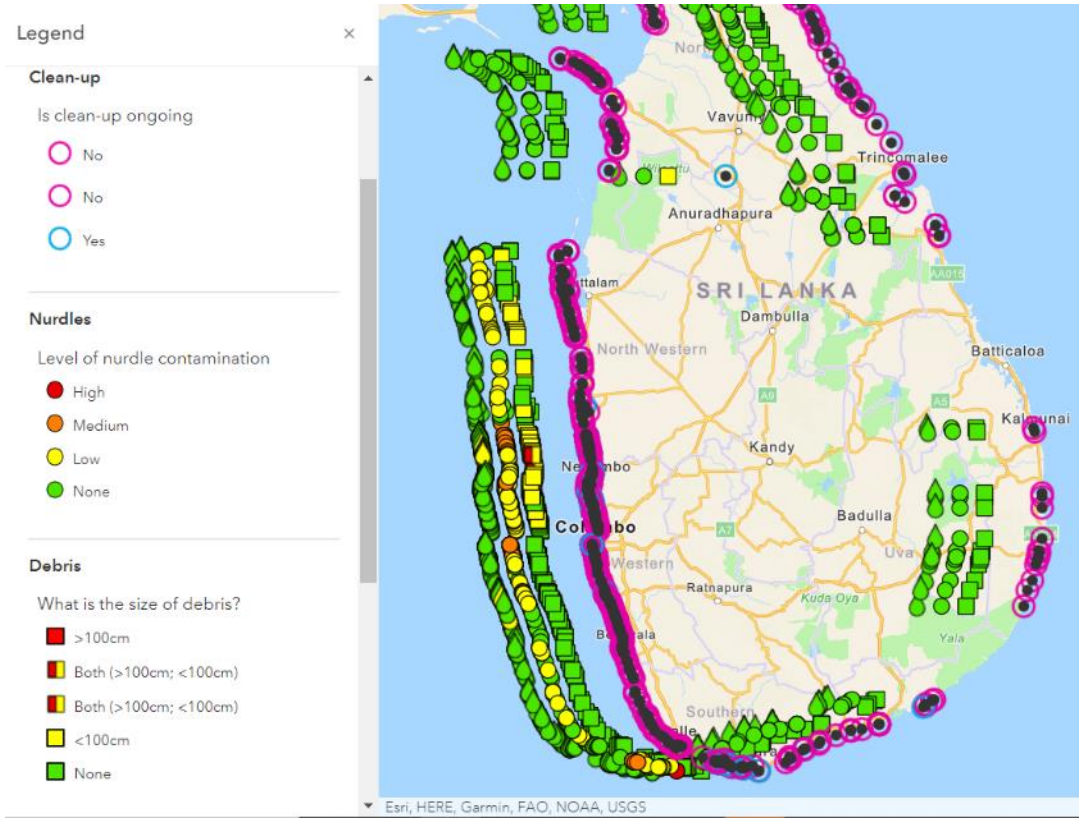
Shoreline Surveys

Data collected via ESRI Survey123 visualised in ArcGIS





Nurdle "distribution" (concentration) vs Nurdle contamination level

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Shoreline Contamination

In-Field Response

- Working with ITOPF & the Marine Environment Protection Authority
- SCAT techniques → standardised, quantitative surveys
- Supervising teams of local workers on beaches
- Oversight of safe systems of work

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Advocating Good Practise

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Developing Response Tactics

- Double-sieve screens
- Mechanised response
- Vacuum systems

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Separation Technologies

Issues & Challenges

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Future Application

- Complementing aerial surveillance with Unmanned Aerial Vehicle overflights
- Largest in-field plastic nurdle response?
- Common ‘good practise’ approaches with oil spills

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Thank You

Any Questions?

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