

Use of Remote Satellite Technology to Uncover Risks in UK's Overseas Territories (UKOTs)

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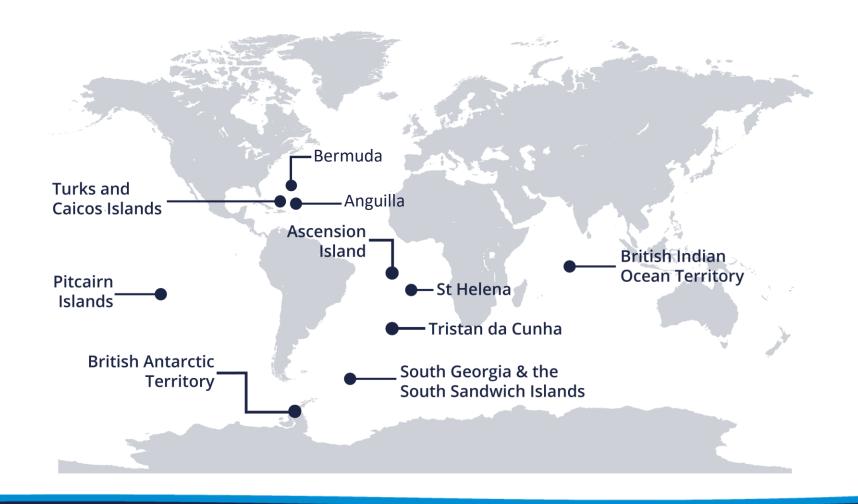
What is the Blue Belt Programme?

- UK Government's flagship international marine conservation programme.
- Central to the UK
 Government's ambition of
 leading action to tackle the
 serious global problems of
 overfishing, species
 extinction and climate
 change.



The Blue Belt and Blue Shield Programmes works closely with ten UK Overseas Territories to assist them in creating and maintaining healthy and productive marine ecosystems.





UKOTs Snapshot

Of oceans are covered by UKOT MPAs.



UKOTs contain

90% of the UK's biodiversity

of the 10 largest MPAs in the world are in **UKOTs waters**



UKOTs contain some of the highest ranking

MSC-certified

fisheries in the world

The Turks and Caicos barrier reef is the third largest in the world

> 94 million

square kilometers of SAR analysed each year over the UKOTs

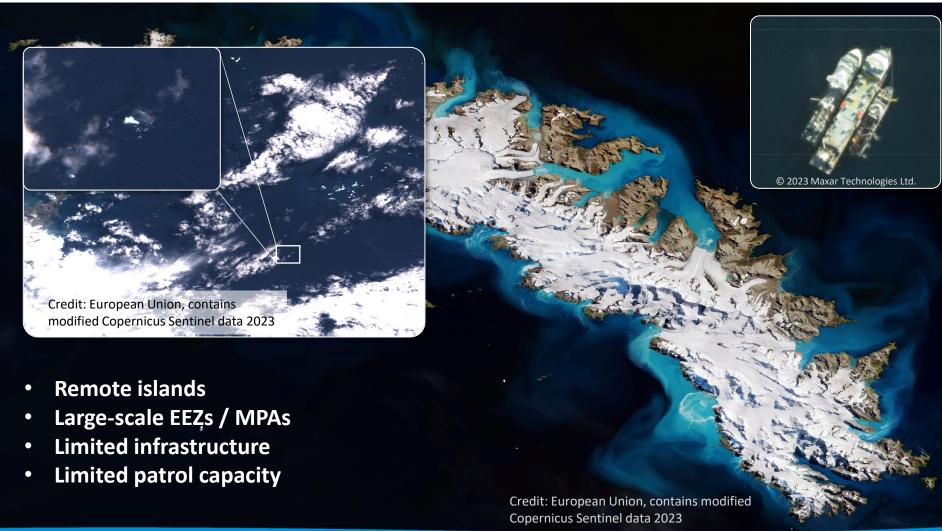


Marine

Management Organisation

The Challenges







Current Operating Set Up







National Maritime Information Centre









Marine Management Organisation







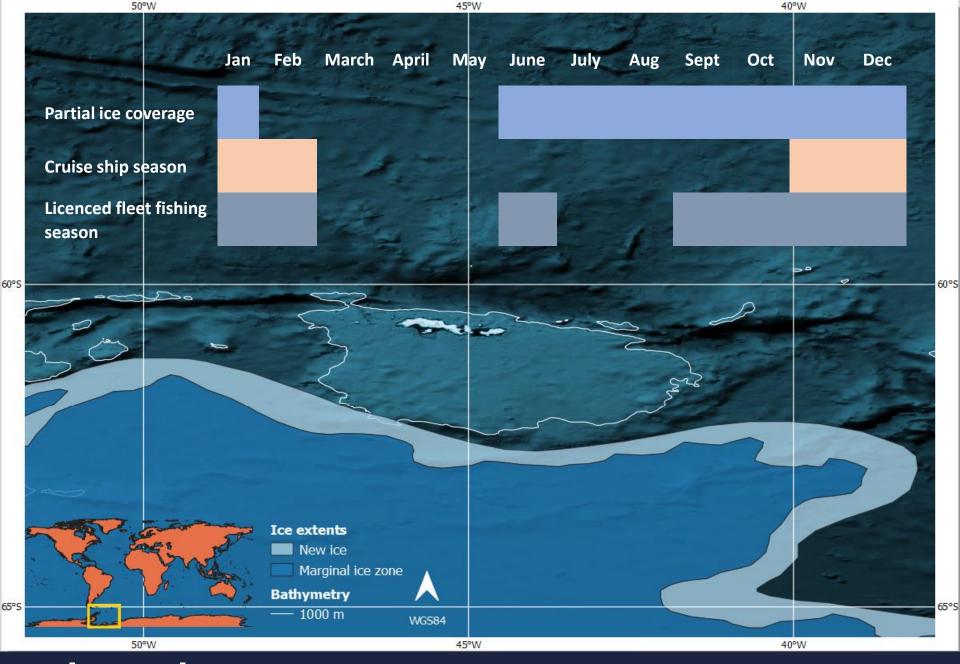












Blue Belt Programme



Case Study - Turks and Caicos



Turks and Caicos join the Blue Belt Programme



Discussion of Blue Belt support available



Local knowledge identified persistent small vessel incursions



Share results with Partner and feedback discussions





EO review commissioned -OceanMind



Case Study – Turks and Caicos

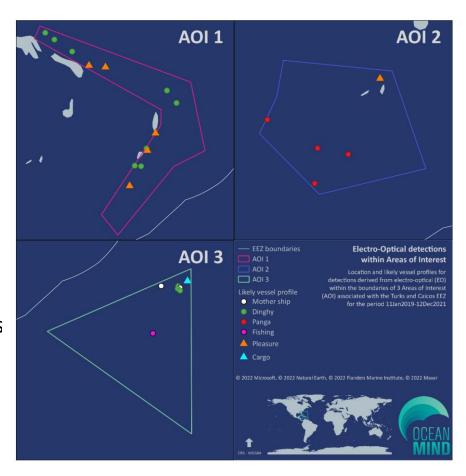


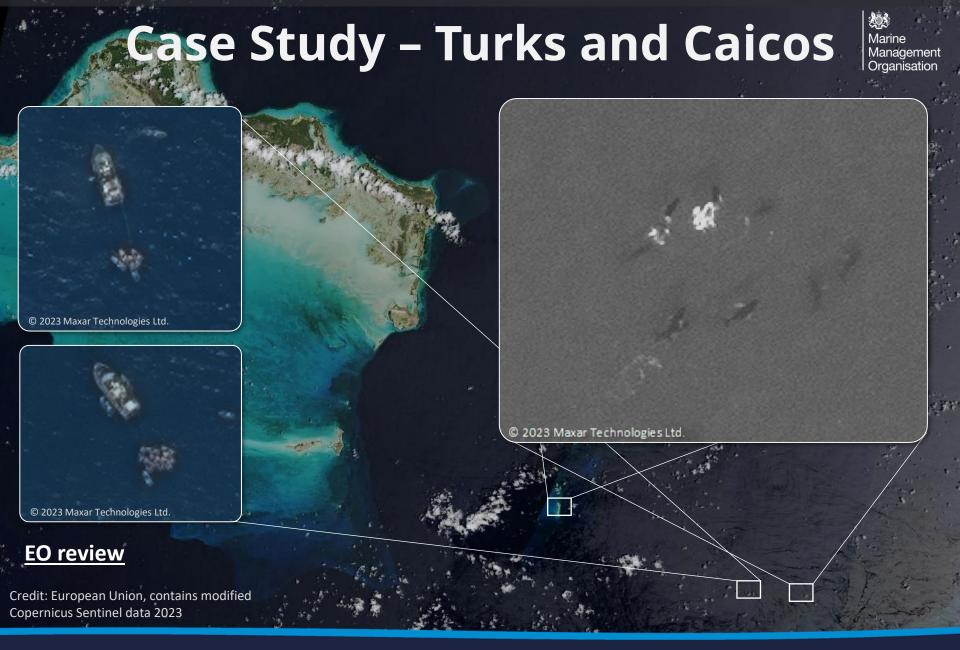
Historical review

Key findings:

- Low level of fishing related AIS traffic
- Testing of SAR indicated insufficient resolution for reliable vessel detection
- High-resolution EO analysis of ~140k km2
 area identified 94 detections
- 46% of the EO detections were identified as possible small-scale fishing vessels







Blue Belt Programme



Remote Sensing Learnings



- Increased understanding of the state of the threat
- Proof of the technology utility in this context
- Interpreting detections can be a challenge
- Remote sensing often provides only a snapshot in time
- Importance of continual partner engagement
- Potential for RF trials and extended monitoring











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