



INTERTANKO

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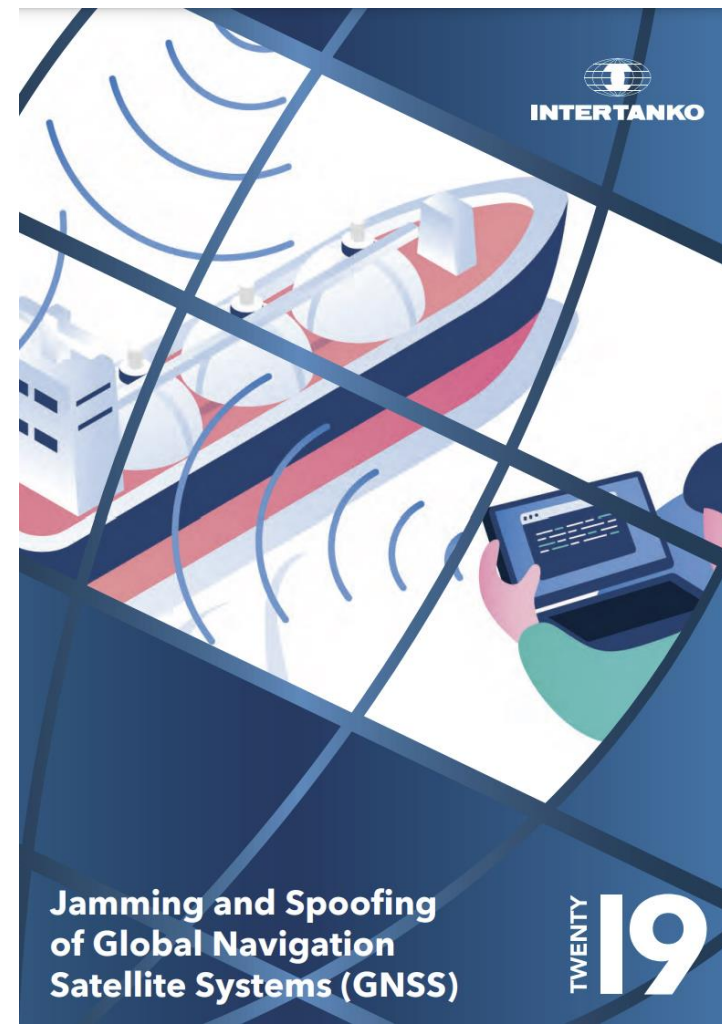


**Members** lead the continuous improvement of the tanker industry's performance and strive to achieve the goals of:

**ZERO** fatalities  
**ZERO** pollution  
**ZERO** detentions

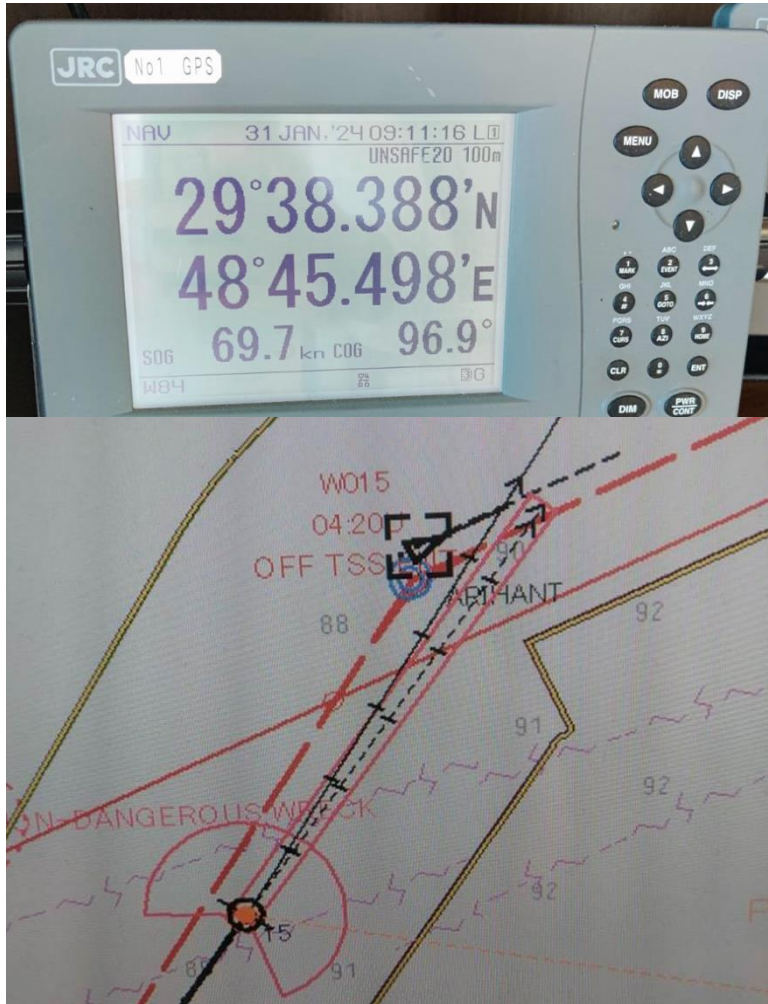
Deliver highest quality services to meet stakeholders' expectations

Promote availability and use of personnel with best marine skills and competencies



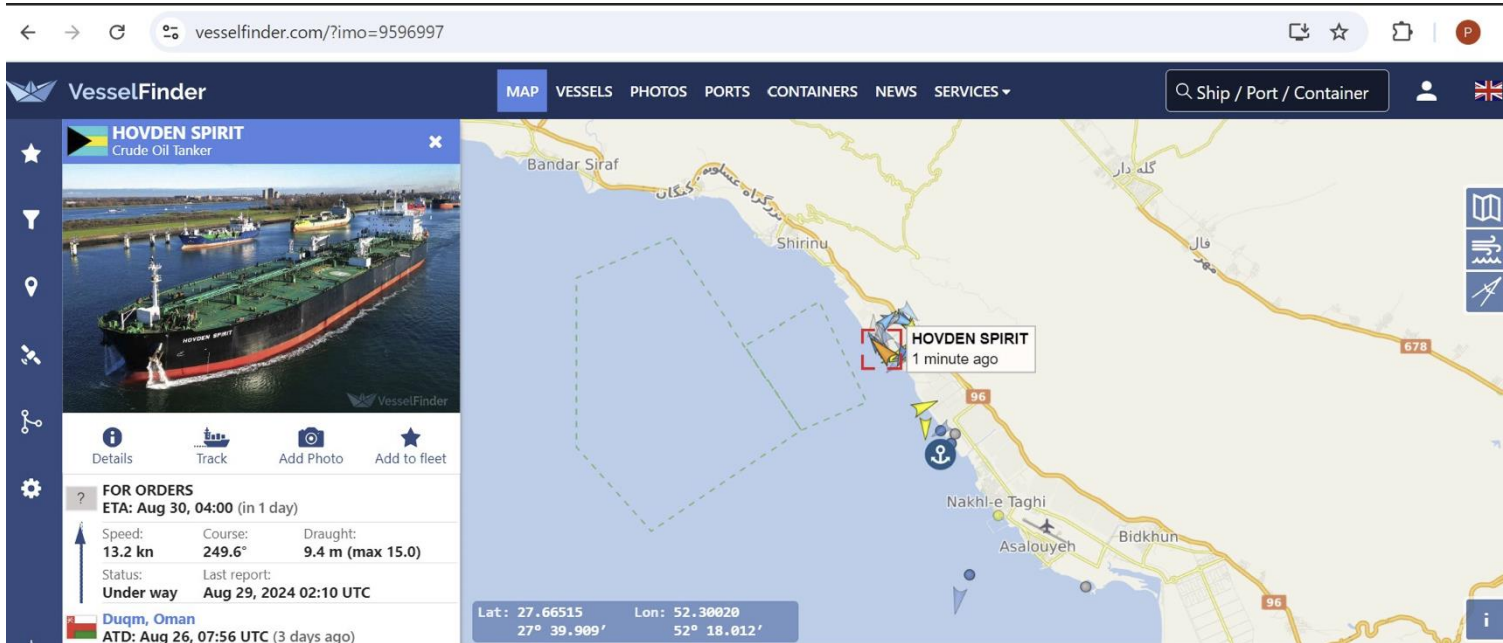
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**Jamming** causes the receiver to **die**



**Spoofing** causes the receiver to **lie**

- Sudden placement of fake AIS target
- AIS target without radar image and no visual
- AIS target behaved and moved like a ship
- Forcing collision avoidance and entrance into Iranian waters
- Countered by lack of radar echo and binoculars



- Passage from Mombasa to Kuwait
- Uneventful voyage
- New charterers rejected vessel as vesselfinder.com had it breaching sanctions by calling in Iran
- It had not called there
- Commercial implications
- But imagine if the faked signal had placed it in Israel
- Ship had no idea that this had occurred



## 1. Preventative Action (Regulators):

- INTERTANKO submission: New STCW Competency for OOW
- IMO Mandatory use of MMSI numbers

## 2. Corrective Actions (Manufacturers)

- Multiple dual-frequency GNSS-receivers needed
- RFI-resilient GNSS receivers (adaptive antenna arrays).

## 3. Corrective Actions (Coastal States):

- SOLAS requires signatory governments to have adequate aids to navigation to meet a defined degree of risk for the volume of traffic (Chapter V Regulation 13)

## 4. Corrective Actions (Seafarers):

- Use radar overlay
- Trust your eyes and use them!





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Thank you and Questions?

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