

◆ SENSITIVE // FOR OFFICIAL USE ONLY ◆

MARITIME INTELLIGENCE DOSSIER

Area of Interest Report — ENGLISH CHANNEL

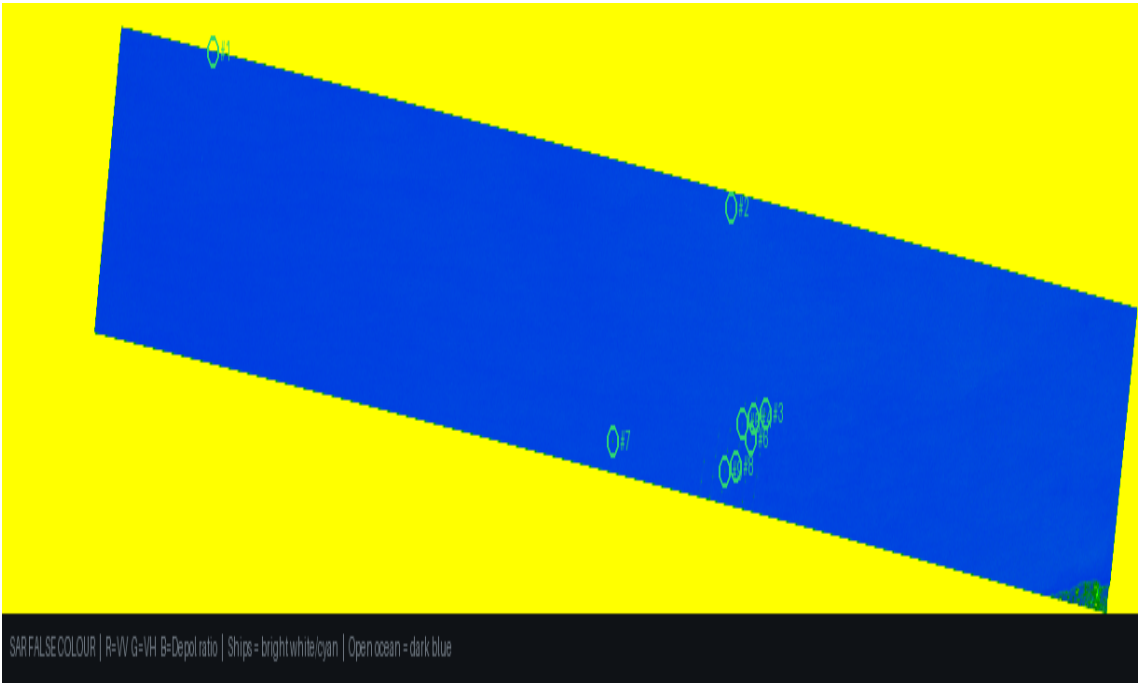


FIGURE 1 — Full-scene SAR false-colour composite. R=VV · G=VH · B=Depol ratio. Circles mark all SAR detections.

MISSION ID	MISSION_ENGLISH_CHANNEL_20260628T154646
AOI	ENGLISH_CHANNEL
SCENE TIME	2026-06-28 15:46 UTC
TOTAL DETECTIONS	9
DARK VESSELS	0
UNCERTAIN	0
AIS MATCHED	0

PRODUCED

2026-06-28T10:18:18Z

SECTION 01

Detection Summary

Scene acquired over **ENGLISH CHANNEL** on **2026-06-28 at 15:46 UTC**. Sentinel-1A IW GRD processed through the Dark Ships 5-phase calibration and YOLO detection pipeline. 9 vessel(s) resolved above confidence threshold.

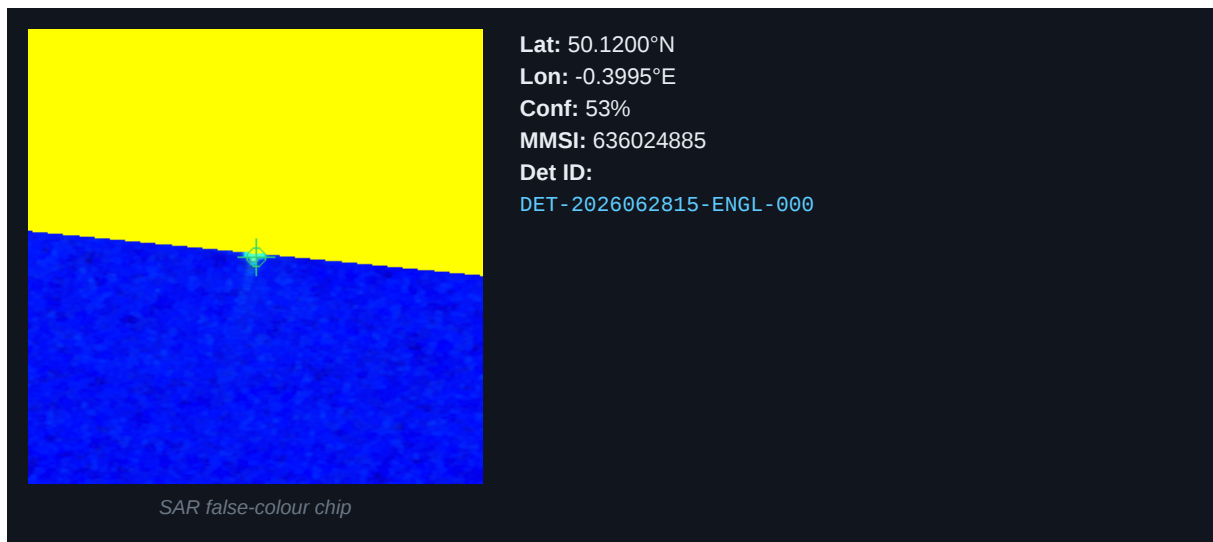
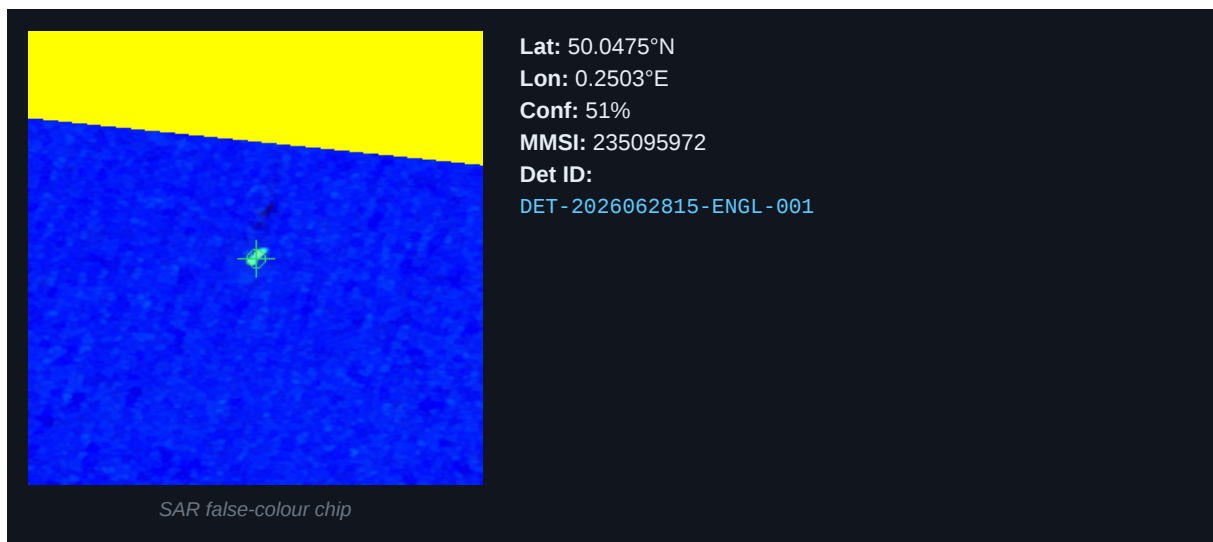
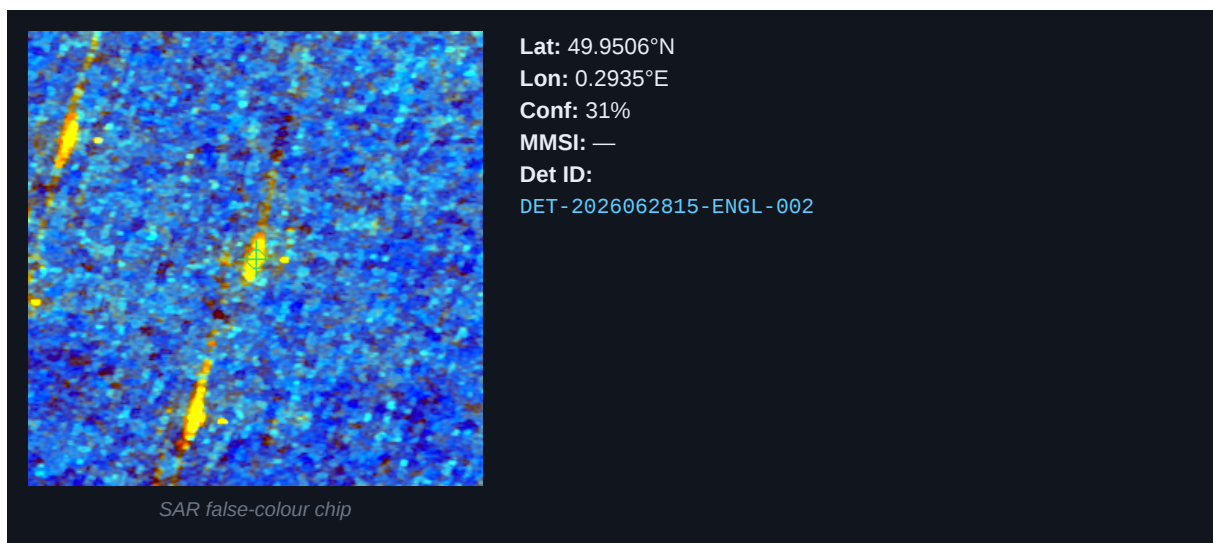
ID	LAT	LON	CONF	STATUS	MMSI
DET-2026062815-ENGL-000	50.1200	-0.3995	53%	AIS Match	636024885
DET-2026062815-ENGL-001	50.0475	0.2503	51%	AIS Match	235095972
DET-2026062815-ENGL-002	49.9506	0.2935	31%	UNVERIFIED (no AIS)	—
DET-2026062815-ENGL-003	49.9483	0.2789	38%	UNVERIFIED (no AIS)	—
DET-2026062815-ENGL-004	49.9459	0.2643	38%	UNVERIFIED (no AIS)	—
DET-2026062815-ENGL-005	49.9389	0.2754	28%	UNVERIFIED (no AIS)	—
DET-2026062815-ENGL-006	49.9382	0.1021	40%	AIS Match	205604000
DET-2026062815-ENGL-007	49.9266	0.2569	40%	UNVERIFIED (no AIS)	—
DET-2026062815-ENGL-008	49.9245	0.2423	30%	UNVERIFIED (no AIS)	—

SECTION 02

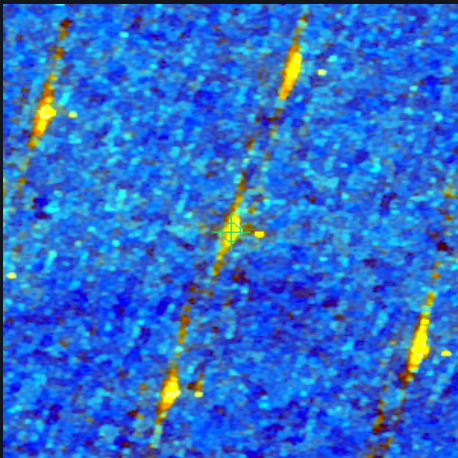
Per-Vessel Intelligence

Each vessel card below shows the SAR chip, AIS status, and fused confidence score.

Vessel #1 · AIS Match · DET-2026062815-ENGL-000

**Vessel #2 · AIS Match · DET-2026062815-ENGL-001****Vessel #3 · UNVERIFIED (no AIS) · DET-2026062815-ENGL-002**

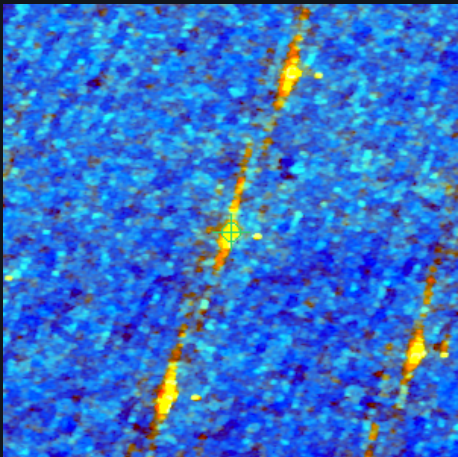
Vessel #4 · UNVERIFIED (no AIS) · DET-2026062815-ENGL-003



SAR false-colour chip

Lat: 49.9483°N
Lon: 0.2789°E
Conf: 38%
MMSI: —
Det ID:
DET-2026062815-ENGL-003

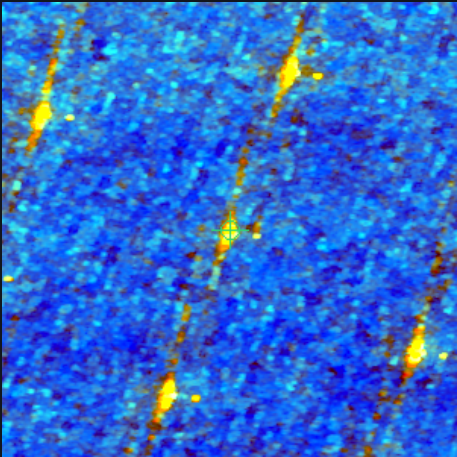
Vessel #5 · UNVERIFIED (no AIS) · DET-2026062815-ENGL-004



SAR false-colour chip

Lat: 49.9459°N
Lon: 0.2643°E
Conf: 38%
MMSI: —
Det ID:
DET-2026062815-ENGL-004

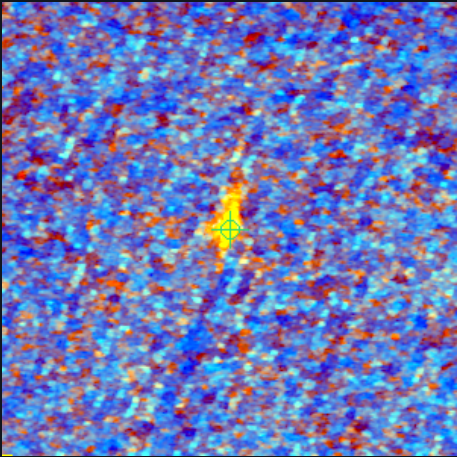
Vessel #6 · UNVERIFIED (no AIS) · DET-2026062815-ENGL-005



SAR false-colour chip

Lat: 49.9389°N
Lon: 0.2754°E
Conf: 28%
MMSI: —
Det ID:
DET-2026062815-ENGL-005

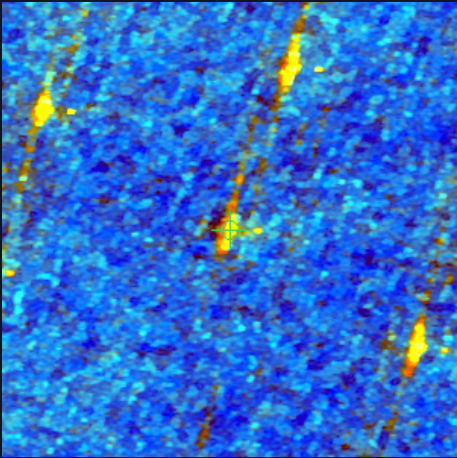
Vessel #7 · AIS Match · DET-2026062815-ENGL-006



SAR false-colour chip

Lat: 49.9382°N
Lon: 0.1021°E
Conf: 40%
MMSI: 205604000
Det ID:
DET-2026062815-ENGL-006

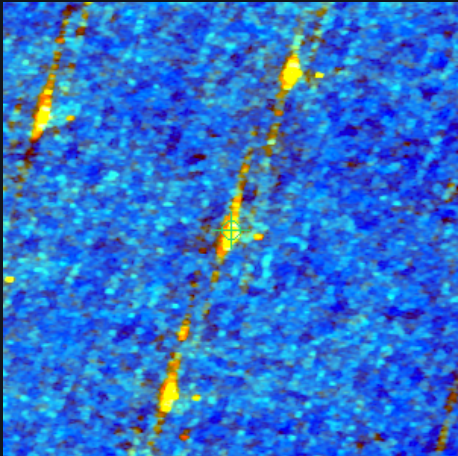
Vessel #8 · UNVERIFIED (no AIS) · DET-2026062815-ENGL-007



SAR false-colour chip

Lat: 49.9266°N
Lon: 0.2569°E
Conf: 40%
MMSI: —
Det ID:
DET-2026062815-ENGL-007

Vessel #9 · UNVERIFIED (no AIS) · DET-2026062815-ENGL-008



Lat: 49.9245°N
Lon: 0.2423°E
Conf: 30%
MMSI: —
Det ID:
DET-2026062815-ENGL-008

SAR false-colour chip

SECTION 03

Technical Methodology & Chain of Custody

ACQUISITION

Sentinel-1A IW GRD downloaded from Copernicus Data Space Ecosystem (CDSE).

CALIBRATION

ESA SNAP GPT 6-step chain: orbit → thermal noise removal → radiometric calibration → multilook → terrain correction (SRTM 1Sec) → dB conversion. Output: Sigma-0 dB GeoTIFF, 10 m GSD.

DETECTION

YOLOv8 ship detector (xView3-SAR + SARFish training set). Conf threshold 0.35. CFAR secondary validation (128×128 guard, 5 dB above local mean).

AIS FUSION

Cross-reference within 2 km / ±30 min of scene midpoint. Dark = no AIS. Uncertain = AIS gap at acquisition time. Matched = confirmed transponder.

FALSE COLOUR

Chip extraction: VV→R, VH→G, (VV-VH)→B, 300×300 px per vessel, 10 m native resolution.

MISSION ID	MISSION_ENGLISH_CHANNEL_20260628T154646
REPORT PRODUCED	2026-06-28T10:18:18Z
PIPELINE	Dark Ships v1.0 · Phase 3 Validated (2026-04-13)
VESSELS IN REPORT	9
CLASSIFICATION	SENSITIVE — INTELLIGENCE PRODUCT