

◆ SENSITIVE // FOR OFFICIAL USE ONLY ◆

MARITIME INTELLIGENCE DOSSIER

Area of Interest Report — DOVER STRAIT

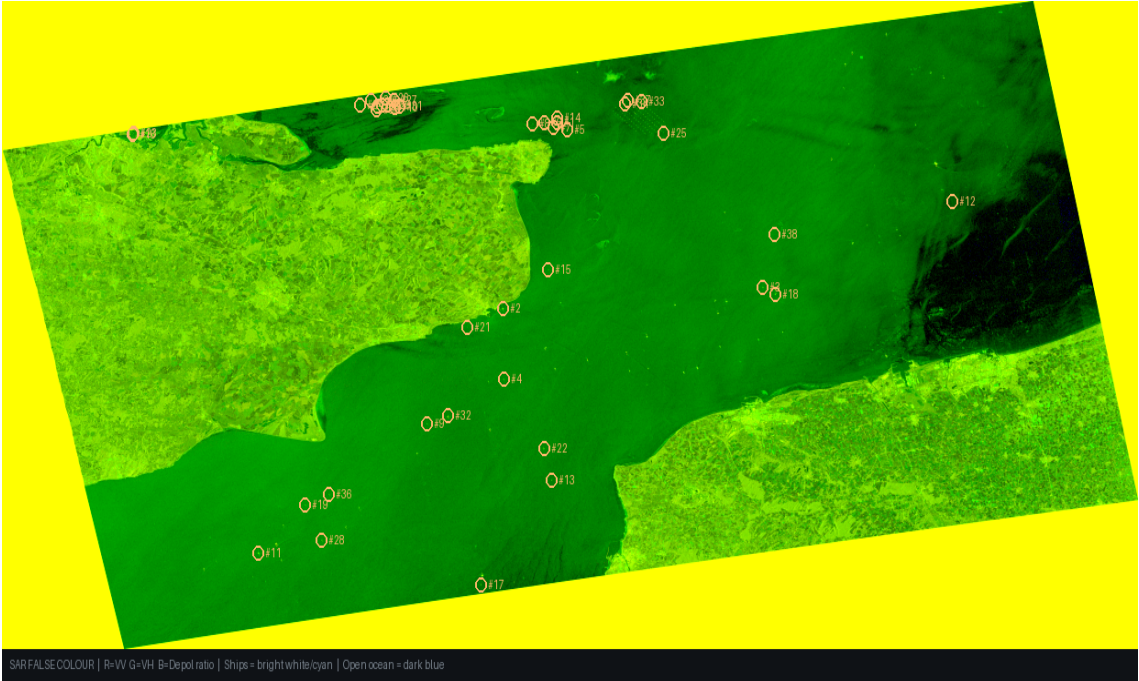


FIGURE 1 — Full-scene SAR false-colour composite. $R=VV \cdot G=VH \cdot B=Depol$ ratio. Circles mark all SAR detections.

MISSION ID	MISSION_DOVER_STRAIT_20260508T175030
AOI	DOVER STRAIT
SCENE TIME	2026-05-08 17:50 UTC
TOTAL DETECTIONS	39
DARK VESSELS	0
UNCERTAIN	39
AIS MATCHED	0

PRODUCED

2026-05-26T16:21:05Z

SECTION 01

Detection Summary

Scene acquired over **DOVER STRAIT** on **2026-05-08 at 17:50 UTC**. Sentinel-1A IW GRD processed through the Dark Ships 5-phase calibration and YOLO detection pipeline. 39 vessel(s) resolved above confidence threshold.

ID	LAT	LON	CONF	STATUS	MMSI
DET-2026050817-DOVE-000	51.4217	1.4613	63%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-001	51.1233	1.3496	54%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-002	51.1582	1.8849	53%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-003	51.0106	1.3514	52%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-004	51.4100	1.4825	52%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-005	51.4218	1.4346	47%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-006	51.4148	1.4543	45%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-007	51.4196	1.4114	45%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-008	50.9394	1.1939	43%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-009	51.4469	1.1281	43%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-010	50.7317	0.8470	42%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-011	51.2960	2.2750	41%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-012	50.8491	1.4503	40%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-013	51.4303	1.4615	40%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-014	51.1868	1.4434	39%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-015	51.4038	0.5875	39%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-016	50.6811	1.3047	38%	UNCERTAIN (AIS DATA GAP)	—

DET-2026050817-DOVE-017	51.1472	1.9106	38%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-018	50.8091	0.9431	34%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-019	51.4489	1.0916	34%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-020	51.0946	1.2767	33%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-021	50.8990	1.4343	33%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-022	51.4052	0.5893	33%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-023	51.4506	1.0558	32%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-024	51.4061	1.6803	32%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-025	51.4620	1.1090	31%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-026	51.4580	1.1252	31%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-027	50.7531	0.9772	31%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-028	51.4510	1.1115	31%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-029	51.4433	1.0893	30%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-030	51.4481	1.1374	30%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-031	50.9513	1.2373	30%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-032	51.4561	1.6345	29%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-033	51.4519	1.6013	27%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-034	51.4500	1.1015	27%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-035	50.8261	0.9922	27%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-036	51.4576	1.6062	27%	UNCERTAIN (AIS DATA GAP)	—
DET-2026050817-DOVE-037	51.2425	1.9097	27%	UNCERTAIN (AIS DATA GAP)	—

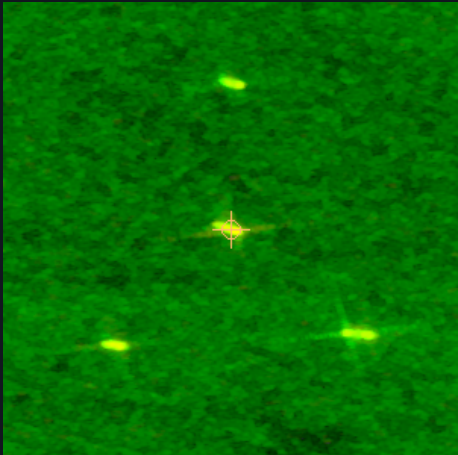
DET-2026050817-DOVE-03				UNCERTAIN (AIS	
8	51.4589	1.0790	27%	DATA GAP)	—

SECTION 02

Per-Vessel Intelligence

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

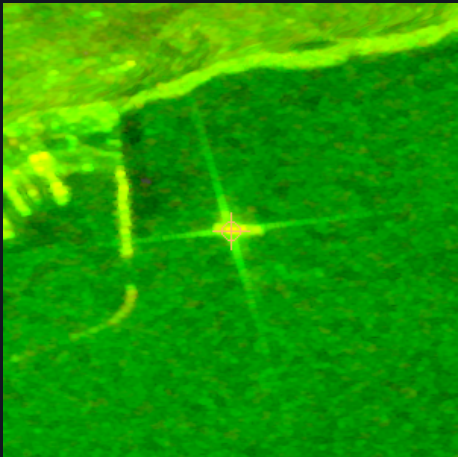
Vessel #1 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-000



SAR false-colour chip

Lat: 51.4217°N
Lon: 1.4613°E
Conf: 63%
MMSI: —
Det ID:
DET-2026050817-DOVE-000

Vessel #2 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-001



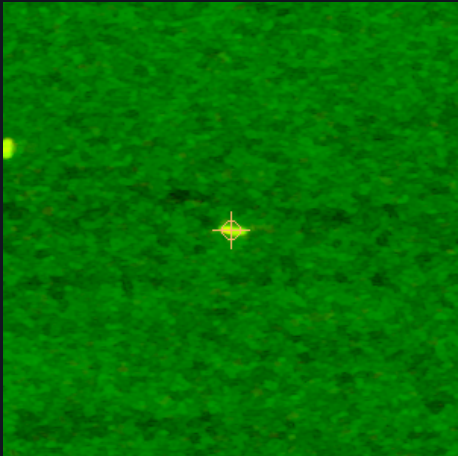
SAR false-colour chip

Lat: 51.1233°N
Lon: 1.3496°E
Conf: 54%
MMSI: —
Det ID:
DET-2026050817-DOVE-001

Vessel #3 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-002

**Vessel #4 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-003****Vessel #5 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-004**

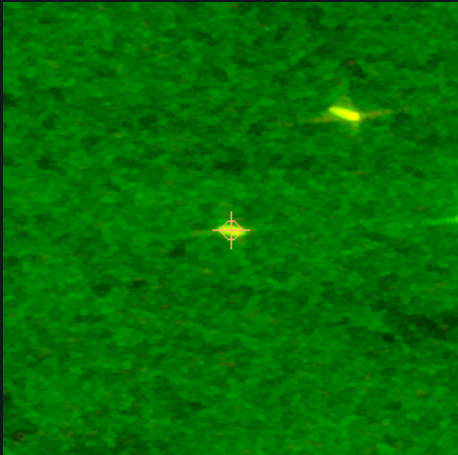
Vessel #6 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-005



SAR false-colour chip

Lat: 51.4218°N
Lon: 1.4346°E
Conf: 47%
MMSI: —
Det ID:
DET-2026050817-DOVE-005

Vessel #7 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-006



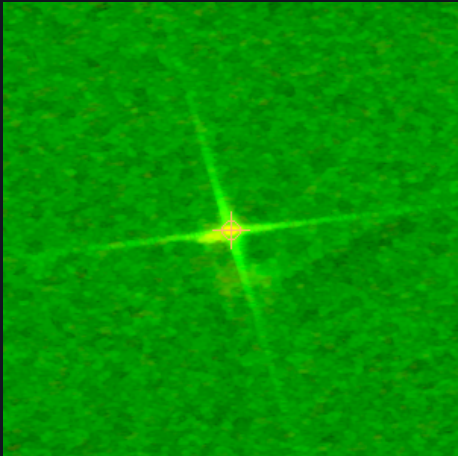
SAR false-colour chip

Lat: 51.4148°N
Lon: 1.4543°E
Conf: 45%
MMSI: —
Det ID:
DET-2026050817-DOVE-006

Vessel #8 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-007

**Vessel #9 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-008****Vessel #10 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-009**

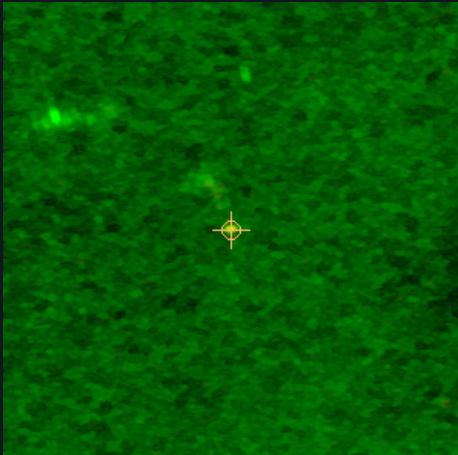
Vessel #11 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-010



Lat: 50.7317°N
Lon: 0.8470°E
Conf: 42%
MMSI: —
Det ID:
DET-2026050817-DOVE-010

SAR false-colour chip

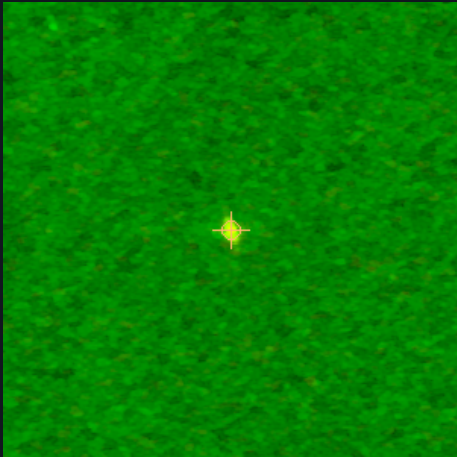
Vessel #12 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-011



Lat: 51.2960°N
Lon: 2.2750°E
Conf: 41%
MMSI: —
Det ID:
DET-2026050817-DOVE-011

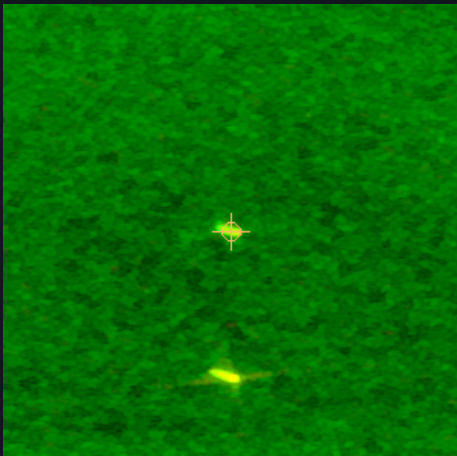
SAR false-colour chip

Vessel #13 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-012



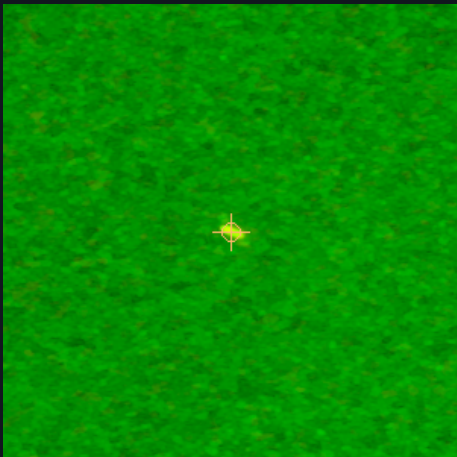
Lat: 50.8491°N
Lon: 1.4503°E
Conf: 40%
MMSI: —
Det ID:
DET-2026050817-DOVE-012

SAR false-colour chip

Vessel #14 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-013

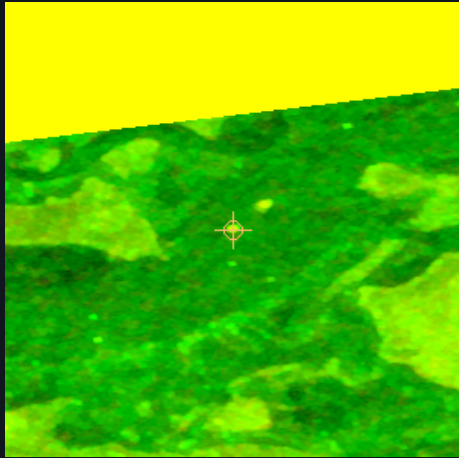
Lat: 51.4303°N
Lon: 1.4615°E
Conf: 40%
MMSI: —
Det ID:
DET-2026050817-DOVE-013

SAR false-colour chip

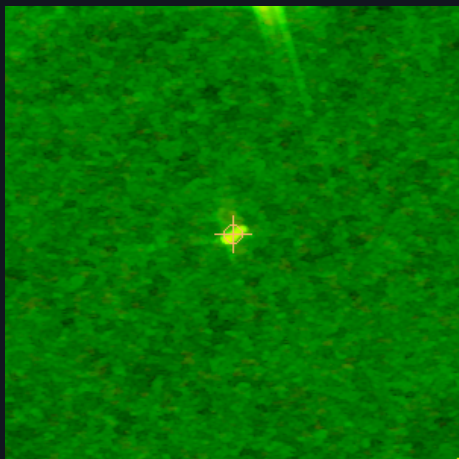
Vessel #15 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-014

Lat: 51.1868°N
Lon: 1.4434°E
Conf: 39%
MMSI: —
Det ID:
DET-2026050817-DOVE-014

SAR false-colour chip

Vessel #16 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-015*SAR false-colour chip*

Lat: 51.4038°N
Lon: 0.5875°E
Conf: 39%
MMSI: —
Det ID:
DET-2026050817-DOVE-015

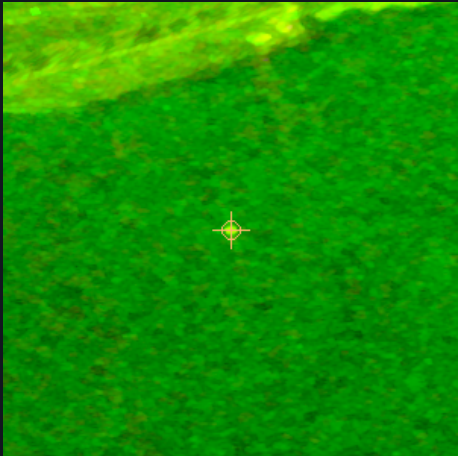
Vessel #17 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-016*SAR false-colour chip*

Lat: 50.6811°N
Lon: 1.3047°E
Conf: 38%
MMSI: —
Det ID:
DET-2026050817-DOVE-016

Vessel #18 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-017

**Vessel #19 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-018****Vessel #20 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-019**

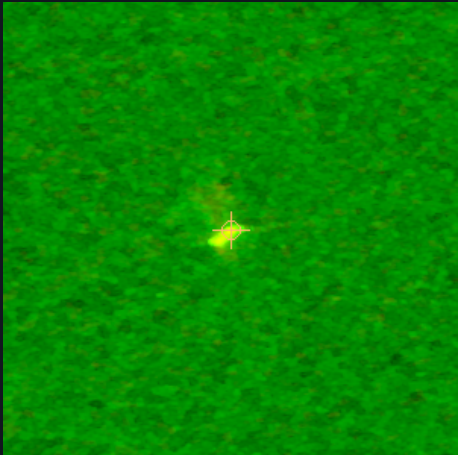
Vessel #21 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-020



SAR false-colour chip

Lat: 51.0946°N
Lon: 1.2767°E
Conf: 33%
MMSI: —
Det ID:
DET-2026050817-DOVE-020

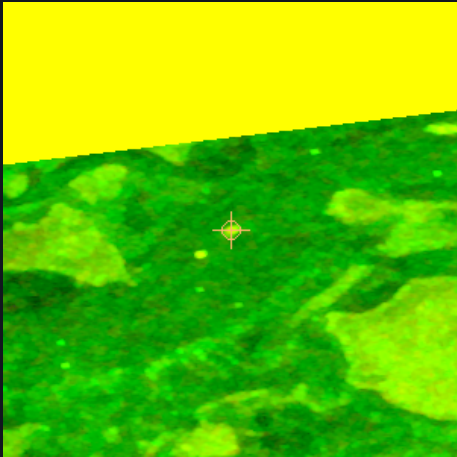
Vessel #22 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-021



SAR false-colour chip

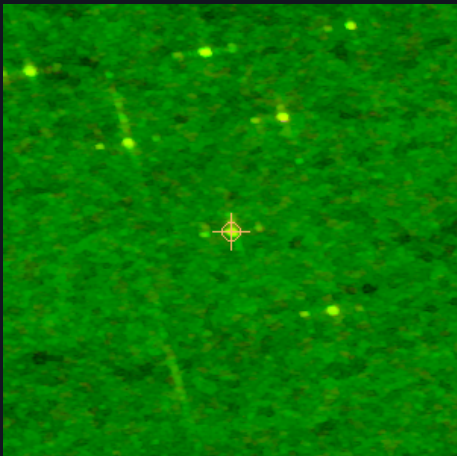
Lat: 50.8990°N
Lon: 1.4343°E
Conf: 33%
MMSI: —
Det ID:
DET-2026050817-DOVE-021

Vessel #23 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-022



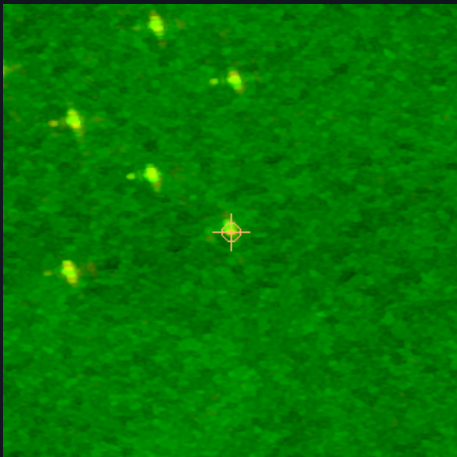
Lat: 51.4052°N
Lon: 0.5893°E
Conf: 33%
MMSI: —
Det ID:
DET-2026050817-DOVE-022

SAR false-colour chip

Vessel #24 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-023

Lat: 51.4506°N
Lon: 1.0558°E
Conf: 32%
MMSI: —
Det ID:
DET-2026050817-DOVE-023

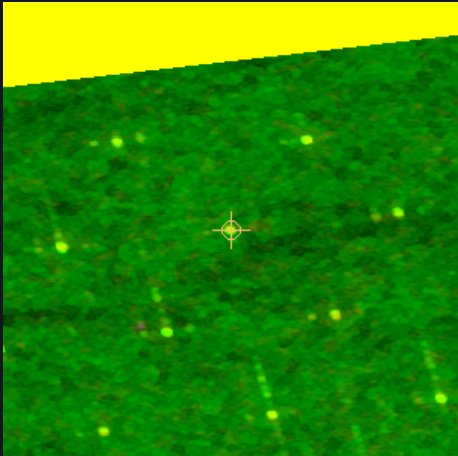
SAR false-colour chip

Vessel #25 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-024

Lat: 51.4061°N
Lon: 1.6803°E
Conf: 32%
MMSI: —
Det ID:
DET-2026050817-DOVE-024

SAR false-colour chip

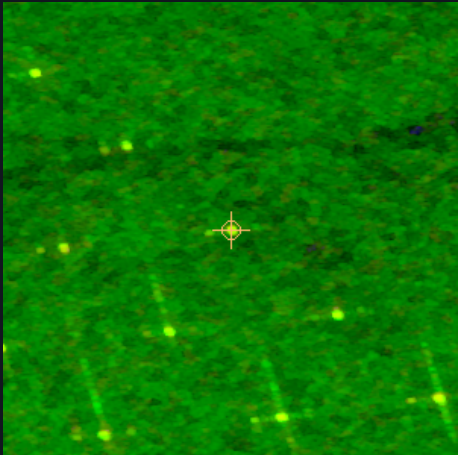
Vessel #26 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-025



SAR false-colour chip

Lat: 51.4620°N
Lon: 1.1090°E
Conf: 31%
MMSI: —
Det ID:
DET-2026050817-DOVE-025

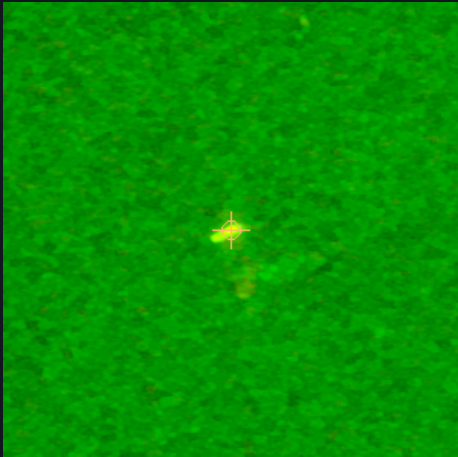
Vessel #27 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-026



SAR false-colour chip

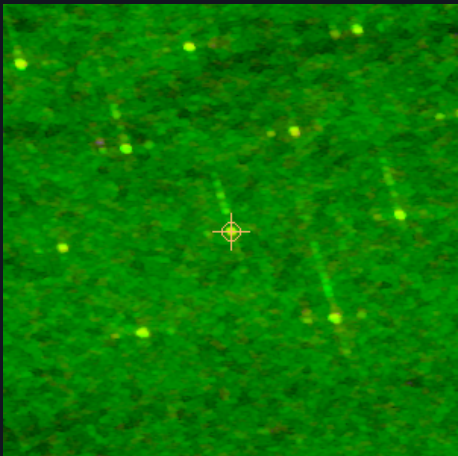
Lat: 51.4580°N
Lon: 1.1252°E
Conf: 31%
MMSI: —
Det ID:
DET-2026050817-DOVE-026

Vessel #28 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-027



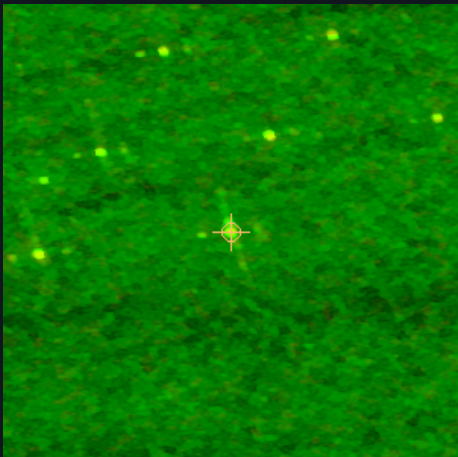
Lat: 50.7531°N
Lon: 0.9772°E
Conf: 31%
MMSI: —
Det ID:
DET-2026050817-DOVE-027

SAR false-colour chip

Vessel #29 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-028

Lat: 51.4510°N
Lon: 1.1115°E
Conf: 31%
MMSI: —
Det ID:
DET-2026050817-DOVE-028

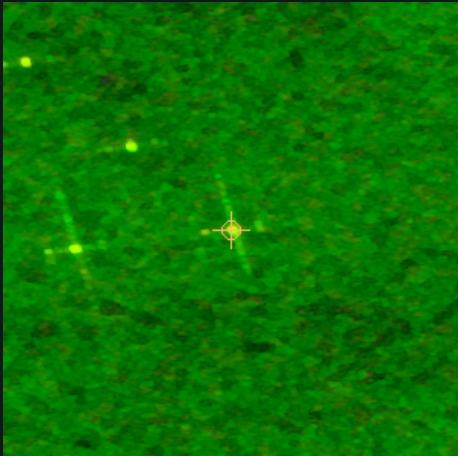
SAR false-colour chip

Vessel #30 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-029

Lat: 51.4433°N
Lon: 1.0893°E
Conf: 30%
MMSI: —
Det ID:
DET-2026050817-DOVE-029

SAR false-colour chip

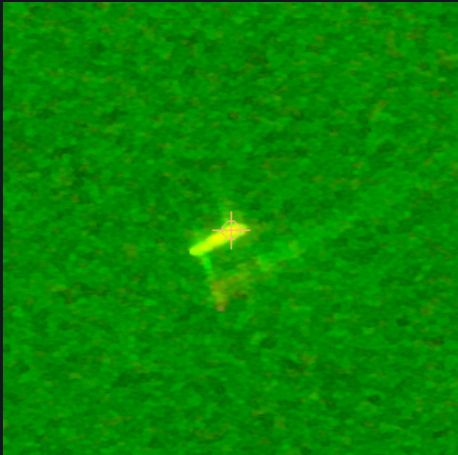
Vessel #31 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-030



SAR false-colour chip

Lat: 51.4481°N
Lon: 1.1374°E
Conf: 30%
MMSI: —
Det ID:
DET-2026050817-DOVE-030

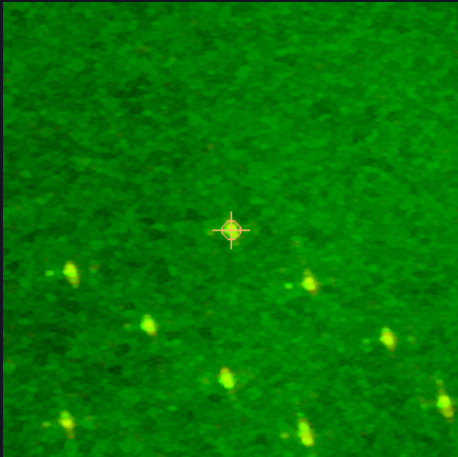
Vessel #32 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-031



SAR false-colour chip

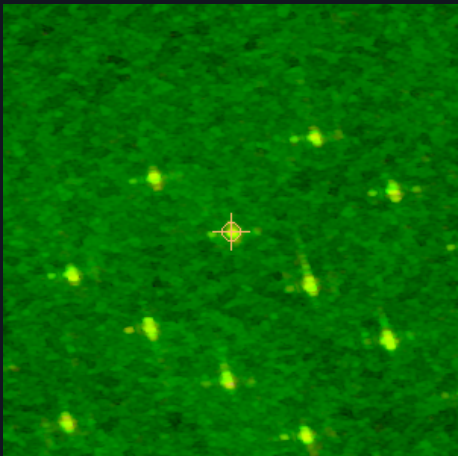
Lat: 50.9513°N
Lon: 1.2373°E
Conf: 30%
MMSI: —
Det ID:
DET-2026050817-DOVE-031

Vessel #33 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-032



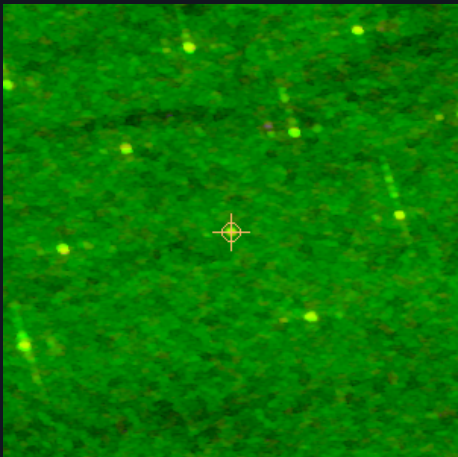
Lat: 51.4561°N
Lon: 1.6345°E
Conf: 29%
MMSI: —
Det ID:
[DET-2026050817-DOVE-032](#)

SAR false-colour chip

Vessel #34 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-033

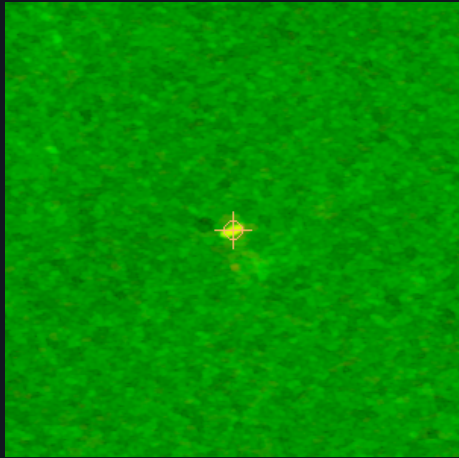
Lat: 51.4519°N
Lon: 1.6013°E
Conf: 27%
MMSI: —
Det ID:
[DET-2026050817-DOVE-033](#)

SAR false-colour chip

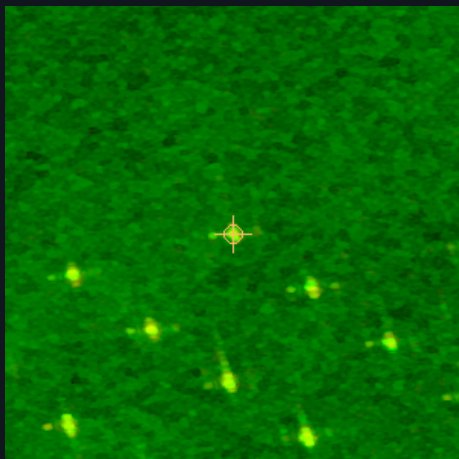
Vessel #35 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-034

Lat: 51.4500°N
Lon: 1.1015°E
Conf: 27%
MMSI: —
Det ID:
[DET-2026050817-DOVE-034](#)

SAR false-colour chip

Vessel #36 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-035*SAR false-colour chip*

Lat: 50.8261°N
Lon: 0.9922°E
Conf: 27%
MMSI: —
Det ID:
DET-2026050817-DOVE-035

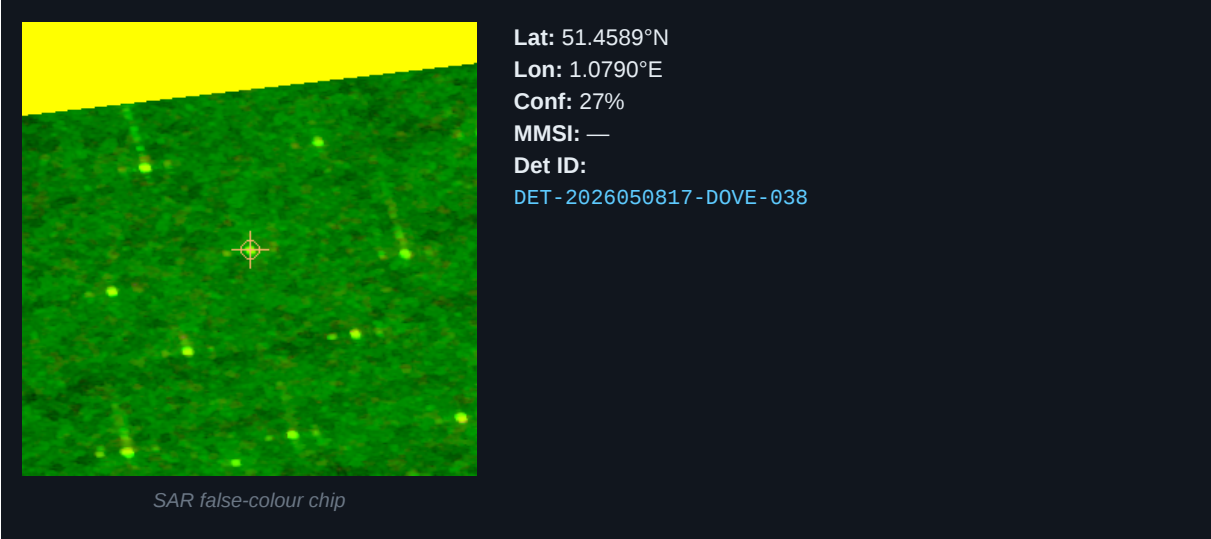
Vessel #37 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-036*SAR false-colour chip*

Lat: 51.4576°N
Lon: 1.6062°E
Conf: 27%
MMSI: —
Det ID:
DET-2026050817-DOVE-036

Vessel #38 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-037



Vessel #39 · UNCERTAIN (AIS DATA GAP) · DET-2026050817-DOVE-038



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_DOVER_STRAIT_20260508T175030
REPORT PRODUCED	2026-05-26T16:21:05Z
PIPELINE	Dark Ships v1.0 · Phase 3 Validated (2026-04-13)
VESSELS IN REPORT	39
CLASSIFICATION	SENSITIVE — INTELLIGENCE PRODUCT