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MARITIME INTELLIGENCE DOSSIER

Area of Interest Report — ENGLISH CHANNEL

MISSION ID	MISSION_ENGLISH_CHANNEL_20260608T175110
AOI	ENGLISH CHANNEL
SCENE TIME	2026-06-08 17:51 UTC
TOTAL DETECTIONS	8
DARK VESSELS	0
UNCERTAIN	0
AIS MATCHED	0
PRODUCED	2026-06-25T05:48:06Z

SECTION 01

Detection Summary

Scene acquired over **ENGLISH CHANNEL** on **2026-06-08 at 17:51 UTC**. Sentinel-1A IW GRD processed through the Dark Ships 5-phase calibration and YOLO detection pipeline. 8 vessel(s) resolved above confidence threshold.

ID	LAT	LON	CONF	STATUS	MMSI
DET-2026060817-ENGL-000	50.0475	0.2503	51%	AIS Match (Unknown) [DR]	235095972
DET-2026060817-ENGL-001	49.9266	0.2569	40%	Dark Vessel (H3 Missing)	—
DET-2026060817-ENGL-002	49.9382	0.1021	40%	Dark Vessel (H3 Missing)	—
DET-2026060817-ENGL-003	49.9483	0.2789	38%	Dark Vessel (H3 Missing)	—
DET-2026060817-ENGL-004	49.9459	0.2643	38%	Dark Vessel (H3 Missing)	—
DET-2026060817-ENGL-005	49.9506	0.2935	31%	Dark Vessel (H3 Missing)	—
DET-2026060817-ENGL-006	49.9245	0.2423	30%	Dark Vessel (H3 Missing)	—
DET-2026060817-ENGL-007	49.9389	0.2754	28%	Dark Vessel (H3 Missing)	—

SECTION 02

Per-Vessel Intelligence

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

Vessel #1 · AIS Match (Unknown) [DR] · DET-2026060817-ENGL-000

[chip not available]

Lat: 50.0475°N
Lon: 0.2503°E
Conf: 51%
MMSI: 235095972
Det ID:
DET-2026060817-ENGL-000

Vessel #2 · Dark Vessel (H3 Missing) · DET-2026060817-ENGL-001

[chip not available]	Lat: 49.9266°N
	Lon: 0.2569°E
	Conf: 40%
	MMSI: —
	Det ID:
	DET-2026060817-ENGL-001

Vessel #3 · Dark Vessel (H3 Missing) · DET-2026060817-ENGL-002

[chip not available]	Lat: 49.9382°N
	Lon: 0.1021°E
	Conf: 40%
	MMSI: —
	Det ID:
	DET-2026060817-ENGL-002

Vessel #4 · Dark Vessel (H3 Missing) · DET-2026060817-ENGL-003

[chip not available]	Lat: 49.9483°N
	Lon: 0.2789°E
	Conf: 38%
	MMSI: —
	Det ID:
	DET-2026060817-ENGL-003

Vessel #5 · Dark Vessel (H3 Missing) · DET-2026060817-ENGL-004

[chip not available]	Lat: 49.9459°N
	Lon: 0.2643°E
	Conf: 38%
	MMSI: —
	Det ID:
	DET-2026060817-ENGL-004

Vessel #6 · Dark Vessel (H3 Missing) · DET-2026060817-ENGL-005

[chip not available]	Lat: 49.9506°N
	Lon: 0.2935°E
	Conf: 31%
	MMSI: —
	Det ID:
	DET-2026060817-ENGL-005

Vessel #7 · Dark Vessel (H3 Missing) · DET-2026060817-ENGL-006

[chip not available]	Lat: 49.9245°N
	Lon: 0.2423°E
	Conf: 30%
	MMSI: —
	Det ID: DET-2026060817-ENGL-006

Vessel #8 · Dark Vessel (H3 Missing) · DET-2026060817-ENGL-007

[chip not available]	Lat: 49.9389°N
	Lon: 0.2754°E
	Conf: 28%
	MMSI: —
	Det ID: DET-2026060817-ENGL-007

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.

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REPORT PRODUCED	2026-06-25T05:48:06Z
PIPELINE	Dark Ships v1.0 · Phase 3 Validated (2026-04-13)
VESSELS IN REPORT	8
CLASSIFICATION	SENSITIVE — INTELLIGENCE PRODUCT