◆ SENSITIVE // FOR OFFICIAL USE ONLY ◆

MARITIME INTELLIGENCE DOSSIER

Area of Interest Report — DOVER STRAIT

MISSION ID	MISSION_DOVER_STRAIT_20260608T222746
AOI	DOVER STRAIT
SCENE TIME	2026-06-08 22:27 UTC
TOTAL DETECTIONS	10
DARK VESSELS	0
UNCERTAIN	0
AIS MATCHED	0
PRODUCED	2026-06-25T05:48:06Z

SECTION 01

Detection Summary

Scene acquired over **DOVER STRAIT** on **2026-06-08 at 22:27 UTC**. Sentinel-1A IW GRD processed through the Dark Ships 5-phase calibration and YOLO detection pipeline. 10 vessel(s) resolved above confidence threshold.

ID	LAT	LON	CONF	STATUS	MMSI
DET-2026060822-DOVE-000	51.4040	0.5874	100%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-001	51.3107	2.5874	55%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-002	51.3200	2.6136	46%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-003	50.8053	1.4510	40%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-004	51.4052	0.5888	40%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-005	51.2358	2.1498	34%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-006	51.3288	2.5344	28%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-007	51.0875	1.5541	28%	AIS Match () [DR]	209851000
DET-2026060822-DOVE-008	51.3157	2.3173	28%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-009	50.8696	1.1180	27%	AIS Match () [DR]	226340000

SECTION 02

Per-Vessel Intelligence

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

Vessel #1 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-000

[chip not available]

Lat: 51.4040°N
Lon: 0.5874°E
Conf: 100%
MMSI: —
Det ID:
DET-2026060822-DOVE-000

Vessel #2 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-001

[chip not available]

Lat: 51.3107°N
Lon: 2.5874°E
Conf: 55%
MMSI: —
Det ID:
DET-2026060822-DOVE-001

Vessel #3 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-002

[chip not available]

Lat: 51.3200°N
Lon: 2.6136°E
Conf: 46%
MMSI: —
Det ID:
DET-2026060822-DOVE-002

Vessel #4 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-003

[chip not available]

Lat: 50.8053°N
Lon: 1.4510°E
Conf: 40%
MMSI: —
Det ID:
DET-2026060822-DOVE-003

Vessel #5 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-004

[chip not available]

Lat: 51.4052°N
Lon: 0.5888°E
Conf: 40%
MMSI: —
Det ID:
DET-2026060822-DOVE-004

Vessel #6 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-005

[chip not available]

Lat: 51.2358°N
Lon: 2.1498°E
Conf: 34%
MMSI: —
Det ID:
DET-2026060822-DOVE-005

Vessel #7 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-006

[chip not available]

Lat: 51.3288°N
Lon: 2.5344°E
Conf: 28%
MMSI: —
Det ID:
DET-2026060822-DOVE-006

Vessel #8 · AIS Match () [DR] · DET-2026060822-DOVE-007

[chip not available]

Lat: 51.0875°N
Lon: 1.5541°E
Conf: 28%
MMSI: 209851000
Det ID:
DET-2026060822-DOVE-007

Vessel #9 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-008

[chip not available]

Lat: 51.3157°N
Lon: 2.3173°E
Conf: 28%
MMSI: —
Det ID:
DET-2026060822-DOVE-008

Vessel #10 · AIS Match () [DR] · DET-2026060822-DOVE-009

[chip not available]

Lat: 50.8696°N
Lon: 1.1180°E
Conf: 27%
MMSI: 226340000
Det ID:
DET-2026060822-DOVE-009

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_20260608T222746
REPORT PRODUCED	2026-06-25T05:48:06Z
PIPELINE	Dark Ships v1.0 · Phase 3 Validated (2026-04-13)
VESSELS IN REPORT	10
CLASSIFICATION	SENSITIVE — INTELLIGENCE PRODUCT