

◆ SENSITIVE // FOR OFFICIAL USE ONLY ◆

MARITIME INTELLIGENCE DOSSIER

Area of Interest Report — DOVER STRAIT

MISSION ID	MISSION_DOVER_STRAIT_20260608T221630
AOI	DOVER STRAIT
SCENE TIME	2026-06-08 22:16 UTC
TOTAL DETECTIONS	39
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 22:16 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-2026060822-DOVE-000	51.4217	1.4613	63%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-001	51.1233	1.3496	54%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-002	51.1582	1.8849	53%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-003	51.0106	1.3514	52%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-004	51.4100	1.4825	52%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-005	51.4218	1.4346	47%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-006	51.4148	1.4543	45%	AIS Match () [DR]	210299000
DET-2026060822-DOVE-007	51.4196	1.4114	45%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-008	50.9394	1.1939	43%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-009	51.4469	1.1281	43%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-010	50.7317	0.8470	42%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-011	51.2960	2.2750	41%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-012	50.8491	1.4503	40%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-013	51.4303	1.4615	40%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-014	51.1868	1.4434	39%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-015	51.4038	0.5875	39%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-016	50.6811	1.3047	38%	Dark Vessel (H3 Missing)	—

DET-2026060822-DOVE-017	51.1472	1.9106	38%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-018	50.8091	0.9431	34%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-019	51.4489	1.0916	34%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-020	51.0946	1.2767	33%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-021	50.8990	1.4343	33%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-022	51.4052	0.5893	33%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-023	51.4506	1.0558	32%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-024	51.4061	1.6803	32%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-025	51.4620	1.1090	31%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-026	51.4580	1.1252	31%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-027	50.7531	0.9772	31%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-028	51.4510	1.1115	31%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-029	51.4433	1.0893	30%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-030	51.4481	1.1374	30%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-031	50.9513	1.2373	30%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-032	51.4561	1.6345	29%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-033	51.4519	1.6013	27%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-034	51.4500	1.1015	27%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-035	50.8261	0.9922	27%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-036	51.4576	1.6062	27%	Dark Vessel (H3 Missing)	—
DET-2026060822-DOVE-037	51.2425	1.9097	27%	Dark Vessel (H3 Missing)	—

DET-2026060822-DOVE-03				Dark Vessel (H3 Missing)	—
8	51.4589	1.0790	27%		

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: 51.4217°N
	Lon: 1.4613°E
	Conf: 63%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-000

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

[chip not available]	Lat: 51.1233°N
	Lon: 1.3496°E
	Conf: 54%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-001

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

[chip not available]	Lat: 51.1582°N
	Lon: 1.8849°E
	Conf: 53%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-002

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

[chip not available]	Lat: 51.0106°N
	Lon: 1.3514°E
	Conf: 52%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-003

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

[chip not available]	Lat: 51.4100°N
	Lon: 1.4825°E
	Conf: 52%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-004

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

[chip not available]	Lat: 51.4218°N
	Lon: 1.4346°E
	Conf: 47%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-005

Vessel #7 · AIS Match () [DR] · DET-2026060822-DOVE-006

[chip not available]	Lat: 51.4148°N
	Lon: 1.4543°E
	Conf: 45%
	MMSI: 210299000
	Det ID:
	DET-2026060822-DOVE-006

Vessel #8 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-007

[chip not available]	Lat: 51.4196°N
	Lon: 1.4114°E
	Conf: 45%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-007

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

[chip not available]	Lat: 50.9394°N
	Lon: 1.1939°E
	Conf: 43%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-008

Vessel #10 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-009

[chip not available]

Lat: 51.4469°N
Lon: 1.1281°E
Conf: 43%
MMSI: —
Det ID:
DET-2026060822-DOVE-009

Vessel #11 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-010

[chip not available]

Lat: 50.7317°N
Lon: 0.8470°E
Conf: 42%
MMSI: —
Det ID:
DET-2026060822-DOVE-010

Vessel #12 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-011

[chip not available]

Lat: 51.2960°N
Lon: 2.2750°E
Conf: 41%
MMSI: —
Det ID:
DET-2026060822-DOVE-011

Vessel #13 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-012

[chip not available]

Lat: 50.8491°N
Lon: 1.4503°E
Conf: 40%
MMSI: —
Det ID:
DET-2026060822-DOVE-012

Vessel #14 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-013

[chip not available]

Lat: 51.4303°N
Lon: 1.4615°E
Conf: 40%
MMSI: —
Det ID:
DET-2026060822-DOVE-013

Vessel #15 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-014

[chip not available]	Lat: 51.1868°N
	Lon: 1.4434°E
	Conf: 39%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-014

Vessel #16 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-015

[chip not available]	Lat: 51.4038°N
	Lon: 0.5875°E
	Conf: 39%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-015

Vessel #17 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-016

[chip not available]	Lat: 50.6811°N
	Lon: 1.3047°E
	Conf: 38%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-016

Vessel #18 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-017

[chip not available]	Lat: 51.1472°N
	Lon: 1.9106°E
	Conf: 38%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-017

Vessel #19 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-018

[chip not available]	Lat: 50.8091°N
	Lon: 0.9431°E
	Conf: 34%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-018

Vessel #20 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-019

[chip not available]	Lat: 51.4489°N
	Lon: 1.0916°E
	Conf: 34%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-019

Vessel #21 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-020

[chip not available]	Lat: 51.0946°N
	Lon: 1.2767°E
	Conf: 33%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-020

Vessel #22 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-021

[chip not available]	Lat: 50.8990°N
	Lon: 1.4343°E
	Conf: 33%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-021

Vessel #23 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-022

[chip not available]	Lat: 51.4052°N
	Lon: 0.5893°E
	Conf: 33%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-022

Vessel #24 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-023

[chip not available]	Lat: 51.4506°N
	Lon: 1.0558°E
	Conf: 32%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-023

Vessel #25 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-024

[chip not available]	Lat: 51.4061°N
	Lon: 1.6803°E
	Conf: 32%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-024

Vessel #26 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-025

[chip not available]	Lat: 51.4620°N
	Lon: 1.1090°E
	Conf: 31%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-025

Vessel #27 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-026

[chip not available]	Lat: 51.4580°N
	Lon: 1.1252°E
	Conf: 31%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-026

Vessel #28 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-027

[chip not available]	Lat: 50.7531°N
	Lon: 0.9772°E
	Conf: 31%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-027

Vessel #29 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-028

[chip not available]	Lat: 51.4510°N
	Lon: 1.1115°E
	Conf: 31%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-028

Vessel #30 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-029

[chip not available]	Lat: 51.4433°N
	Lon: 1.0893°E
	Conf: 30%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-029

Vessel #31 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-030

[chip not available]	Lat: 51.4481°N
	Lon: 1.1374°E
	Conf: 30%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-030

Vessel #32 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-031

[chip not available]	Lat: 50.9513°N
	Lon: 1.2373°E
	Conf: 30%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-031

Vessel #33 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-032

[chip not available]	Lat: 51.4561°N
	Lon: 1.6345°E
	Conf: 29%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-032

Vessel #34 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-033

[chip not available]	Lat: 51.4519°N
	Lon: 1.6013°E
	Conf: 27%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-033

Vessel #35 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-034

[chip not available]	Lat: 51.4500°N
	Lon: 1.1015°E
	Conf: 27%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-034

Vessel #36 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-035

[chip not available]	Lat: 50.8261°N
	Lon: 0.9922°E
	Conf: 27%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-035

Vessel #37 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-036

[chip not available]	Lat: 51.4576°N
	Lon: 1.6062°E
	Conf: 27%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-036

Vessel #38 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-037

[chip not available]	Lat: 51.2425°N
	Lon: 1.9097°E
	Conf: 27%
	MMSI: —
	Det ID:
	DET-2026060822-DOVE-037

Vessel #39 · Dark Vessel (H3 Missing) · DET-2026060822-DOVE-038

[chip not available]	Lat: 51.4589°N
	Lon: 1.0790°E
	Conf: 27%
	MMSI: —
	Det ID:
	DET-2026060822-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_20260608T221630
REPORT PRODUCED	2026-06-25T05:48:06Z
PIPELINE	Dark Ships v1.0 · Phase 3 Validated (2026-04-13)
VESSELS IN REPORT	39
CLASSIFICATION	SENSITIVE — INTELLIGENCE PRODUCT