INDIAN NAVY: DEBRIEFING SITREP

1. COMMAND & SECTOR METADATA

OPERATIONAL BASE: INS Kadamba (Karwar)
SECTOR ASSIGNMENT: Indian Ocean Region
MISSION ID: UATA-2026-02-06-14-42-21
ANALYTICAL BACKEND: deepseek-r1:7b

2. TACTICAL ASSESSMENT

MISSION STATUS SUMMARY: Strategic surveillance in the Indian Ocean Region sector is established and stable. Operational headquarters successfully relocated to INS Kadamba (Karwar). During the current surveillance window, tactical assets were tasked with identifying FILE: p52.jpg, /tactical analyze central target, FILE: s20c456.jpg.

OPERATIONAL ANALYSIS: Multi-sensor fusion modules performed correlation. Tactical logs indicate successful domain awareness.

RECOMMENDATION: Maintain INS Kadamba (Karwar) patrol readiness. Next sensor sweep scheduled at T+60 minutes.

3. CHRONOLOGICAL TACTICAL LOG

[14:36] [Routine Surveillance] Target: FILE: p52.jpg | Tactical Intelligence: [TGT] TARGET CATEGORY: SEABED SURFACE
[FILE] DATASET SOURCE: seabed surface
[STAT] CONFIDENCE: 87.19%
[AI] XAI STATUS: Heatmap Attention Map Generated
[IMG] TACTICAL OVERLAY: outputs/images/annotatedp52.jpg

[IDEA] DETAILED ADVISEMENT:
[DEF] TACTICAL INTELLIGENCE: DIRECT MANUAL EXTRACTION
The primary AI engine reached its reasoning limit. The following specific directives were extracted:

Feature Extraction: Mel-Frequency Cepstral Coefficients (MFCCs) or Mel-Spectrograms to visualize the acoustic signature. Signature Recognition: Convolutional Neural Networks (CNNs) are typically used to identify "blade rate" (propell...
[14:36] [Routine Surveillance] Target: /metrics | Tactical Intelligence: UATA SYSTEM PERFORMANCE AUDIT
1. TACTICAL DETECTION (YOLO-SONAR)
 - mAP Accuracy: 81.96%
 - Precision (Tiny/Large): 74.2% / 89.1%
 - Inference Latency: <25ms

2. VISUAL RECONNAISSANCE (CLIP-ViT)
 - Top-1 Accuracy: 72.4%
 - Top-3 Accuracy: 91.8%

- Cosine Similarity Threshold: 0.72

3. ACOUSTIC INTELLIGENCE (DeepShip)
  - Benchmark Accuracy: 94.2%
  - SNR Resilience: >80% at -5dB

4. KNOWLEDGE RAG ENGINE (DeepSeek-R1)
  - Grounding Score: 98%
  - Retrieval Precision: 88.5% NDGC@5
  - Hallucination Rate: <1%

[14:39] [IOR DOMAIN AWARENESS] Target: /tactical analyze central target | Tactical Intelligence: YOLO-SONAR TACTICAL DASHBOARD (v2 IMPROVISED)
TARGET DESCRIPTION: analyze central target
ENHANCEMENT TYPE: Spatial Filter Engaged
ACTIVE LOSS FUNCTION: Wise-IoUv3 (Non-monotonic focusing coefficient)
LOCALIZED PRECISION: 89.1%
SYSTEM INSIGHT: [DEF] TACTICAL INTELLIGENCE: DIRECT MANUAL EXTRACTION
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This manual provides the tactical benchmark and accuracy data for the integrated models within the Submarine Tactical Intelligence Suite.
Model Architecture: Semi-Supervised Semantic-Spatial Enhanceme...

[14:41] [Routine Surveillance] Target: FILE: s20c456.jpg | Tactical Intelligence: [TGT] TARGET CATEGORY: NAVYSONARSCAN
[FILE] DATASET SOURCE: sonar
[STAT] CONFIDENCE: 95.47%
[AI] XAI STATUS: Heatmap Attention Map Generated
[IMG] TACTICAL OVERLAY: outputs/images/annotateds20c456.jpg

[IDEA] DETAILED ADVISEMENT:
[DEF] TACTICAL INTELLIGENCE: DIRECT MANUAL EXTRACTION
The primary AI engine reached its reasoning limit. The following specific directives were extracted:

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