



ARCHIPELAGO ENDEAVOR 24

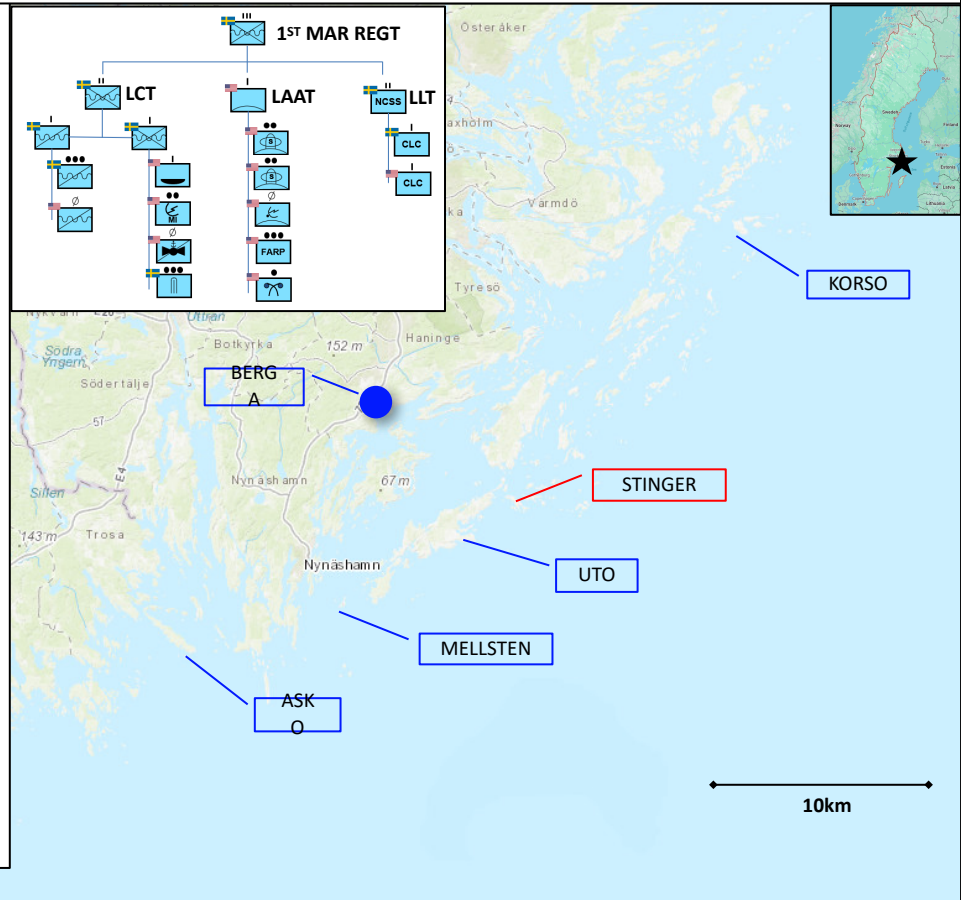
CPO 9 – USEUCOM advances capabilities and relationships with Allies and select regional partners. (GCP-R: IMO 1.1, 1.2, 3.4)

> **NAVAL INFANTRY (EUCOM):** Combined Naval Infantry Capability/Interop/Deploy // Combined Naval Infantry and amphibious forces Capability, Deploy ability, Interoperability, and Standardization activities across the joint functions facilitate increased deterrence and war-fighting capability by, with, and through Allies and partners. These activities enable littoral operations, to include those in contested environments, as part of a coalition or alliance responding to a crisis or contingency. Engagements and activities will emphasize development of stand-in and naval expeditionary forces and develop procedures to allow alliances and coalitions to gain and maintain potential targets and complete kill webs.

- **CAMP BERGA & ISLAND TA's SWEDEN:** IVO Stockholm Archipelago
 - **MFR DFT + MRF-E 24.2 PART 4**
 - (50) 4TH AABN LCC (Littoral Craft Company)
 - (27) MDRD (Multi-Domain Recon Detachment)
 - (5) 4th ANGLICO FCT (Fires Control Team)
 - (11) ISB Battle Space Surveillance Team (Maritime)
 - **MRF-E 24.2 PART 4**
 - (25) MWSS-273 (FARP Operations)
 - (32) LAAD Battery (Ground Based Air Defense / C-UAS)
 - (10) MWSS-273 CBRN (CBRN Response)
 - **MRF-E LCE 24.2**
 - (50) CLC-8 (Combat Logistics Company)

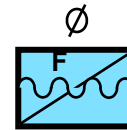
*******EXPERIMENTATION*******

- > **EXP: Command & Control - Compatible Interoperability** // By 2024, in coordination with 1st and 4th Amphibious Regiments, USMC develops tactics, techniques, and procedures to conduct command and control of combined amphibious operations in the Baltic Sea littorals.
- > **EXP: Fires - Compatible Interoperability** // By 2024, in coordination with Swedish 1st and 4th Amphibious Regiments, USMC achieves compatible interoperability for fires tactics, techniques, and procedures to support combined amphibious operations in the Baltic Sea littorals.
- > **EXP: Maneuver - Compatible Interoperability** // Annually in coordination with Swedish 1st Amphibious Regiment forces, USMC conducts expeditionary maneuver operations in Baltic Sea littorals utilizing low signature tactics, techniques, and procedures in support of U.S., allied, and/or partnered forces.
- > **EXP: Logistics - Capability/Interoperability** // By 2024, in coordination with Swedish 1st and 4th Amphibious Regiments, USMC develops logistics tactics, techniques, and procedures to support combined amphibious operations in the Baltic Sea littorals.





HYDROGRAPHIC RECONNAISSANCE



Line of Activity

- **Combined Naval Infantry Capability/Interop/Deploy:** “Combined Naval Infantry and amphibious forces Capability, Interoperability, and Standardization activities across the joint functions.”

Task

- **[PN] demonstrates planning of an amphib op:** [PN] TF able to plan the execution of military operations, from the sea, by an amphibious force, with the primary purpose of introducing land forces ashore, to accomplish the assigned mission. (MCT 5.7.1)
- **Support to Amphibious Landing and Maneuver:** Integrate with Swedish Marine EOD divers to support MCM operations and the clearing of VSW corridors.



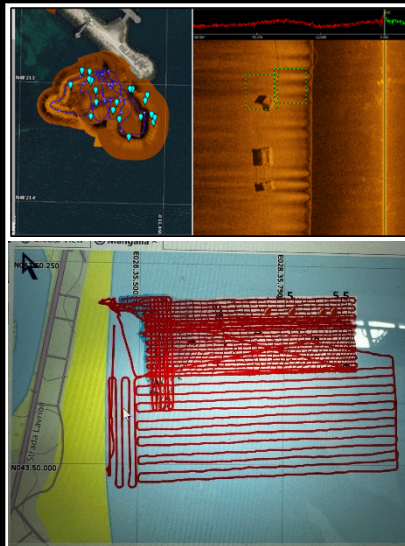
Notes

- Name: **ARIEL SONAR**
- Length: 49 in
- Width: 14 in
- Height: 14 in
- Weight: 22 lbs
- Range: 20 nm
- Battery Life: 5 hrs at 4 kts, 12 hr loiter time
- Battery Type: Li-ion
- Battery Charging Time: 1.5 hrs

POC:
UNIT: 2D FORCE

- Purpose: Designed to enhance access and insights into underwater reconnaissance and information gathering. Features live sonar feed streaming and the capability to record mission data both onboard and on an optional ground station.

- Concept of employment: May be employed from small craft or from shore. Can be GPS programmed or remotely piloted.





SUSTAINMENT (USV)



Line of Activity

- **Combined Naval Infantry Capability/Interop/Deploy:** “Combined Naval Infantry and amphibious forces Capability, Interoperability, and Standardization activities across the joint functions.”

Task

- **[PN] demonstrates resupply and sustainment ops:** [PN] TF coordinates resupply and sustainment operations that maximizes effect on mission support while minimizing adverse effects.
- **Conduct supply chain operations:** [PN] able to acquire supplies needed by the TF, utilizing consumption rates, management of supplies, equipment and inventory, supplier networks and source locations. (UJTL- OP 4.1)



Notes

- Name: **RECKLESS**
- Length: 80 in
- Width: 40 in
- Height: 33 in
- Weight: 230 lbs
- Range: 12 NM
- Battery Life: 3 hrs at 4kts (fully loaded)
- Battery Type: Lipo
- Battery Charging Time: 3 hrs.

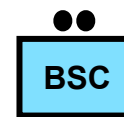
POC:
UNIT: 4TH AABN LCC

- Purpose: Provide an alternative option to manned resupply of expeditionary sites within a littoral environment.
- Concept of employment: Capable of transporting up to 500 lbs (225 kg) along a programable track in sea state three or lower. Internal watertight storage compartment can be used with module “Roof Rack” as needed.





ANTI-SUBMARINE WARFARE (ASW)

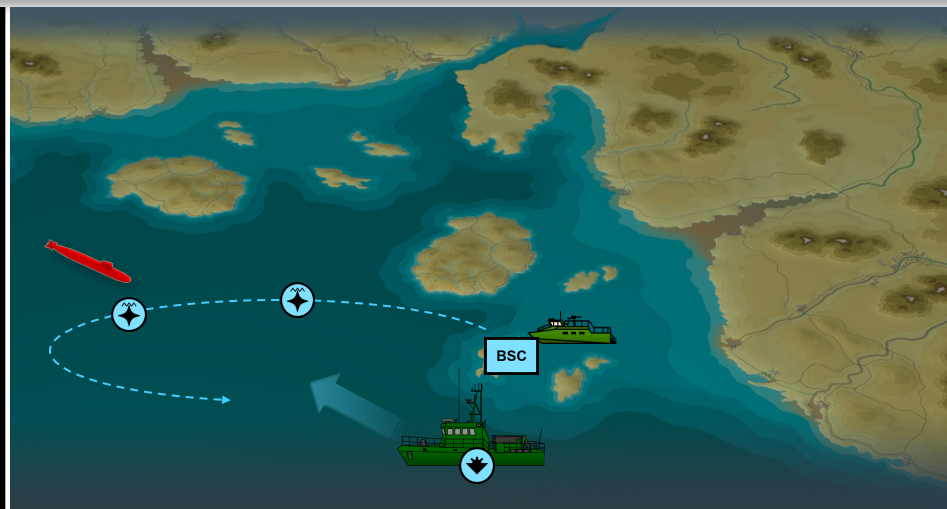


Line of Activity

- **Maritime Domain Awareness:** Maritime Domain Awareness (MDA) activities focus on information sharing and exchanges of national maritime common operating pictures (COP) and, while not focused on intelligence sharing, may have some intelligence aspects

Task

- **Maritime Domain Awareness:** Maritime Domain Awareness (MDA) activities focus on information sharing and exchanges of national maritime common operating pictures (COP) and, while not focused on intelligence sharing, may have some intelligence aspects. MDA is achieved when Ally or partner can accurately collect, fuse, analyze, display, and disseminate actionable information and intelligence to operational commanders. This LOA may require synchronization with the ECJ2 and ECJ6, and the intelligence community capabilities efforts.
- **NATO MSA Capability Targets:** Review NATO Capability Targets or Partner Force Goals to ensure they address appropriate Maritime Situational Awareness (MSA/MDA) capability for [PN] deployable ships and Maritime Patrol Aircraft that allow integration into Allied/Coalition Maritime Common Operational Picture (COP)



Notes

- Name: **ARIEL SONOBUOY**
- Length: 49 in
- Width: 29 in
- Height: 20 in
- Weight: 70 lbs
- Range: 16 NM
- Battery Life: 4 hrs at 4 kts, 12 hr loiter time
- Battery Type: Li-ion
- Battery Charging Time: 1.5 hrs

- Purpose: Unmanned delivery of ASW sensors to support the coastal defense and anti-SOF incursion (Surface and Subsurface) in a general capacity.
- Concept of employment: May be employed from small craft or from shore and by helicopter. Can be GPS programmed or remotely piloted.

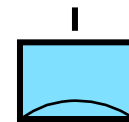
POC:
UNIT: BSC Sensor Det

ARIEL + SONOBUOY





GROUND BASED AIR DEFENSE (GBAD)



Line of Activity

- **Maritime Domain Awareness:** Maritime Domain Awareness (MDA) activities focus on information sharing and exchanges of national maritime common operating pictures (COP) and, while not focused on intelligence sharing, may have some intelligence aspects.

Task

- **Conduct ISR in support of the Task Force (TF):** [PN]'s ACE is able to conduct Intelligence, Surveillance, and Reconnaissance (ISR) operations for the TF.
- **Conduct battalion combined arms integration:** [PN] is able to conduct combined arms integration operations, at the battalion level.
- **Ground Based Air Defense:** [PN]'s organic Air Defense capability is bolstered by USMC forward presence integrated within a maneuver element.



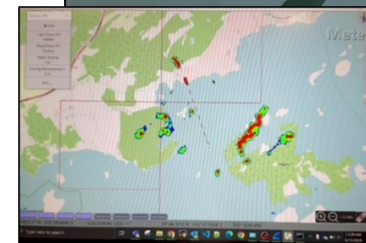
Notes

- Name: **RADAR RECKLESS**
- Length: 80 in
- Width: 40 in
- Height: 47 in
- Weight: 280 lbs
- Range: 16 NM
- Battery Life: 4 hrs at 4 kts, 24 hr loiter
- Battery Type: Lipo
- Battery Charging Time: 3 hrs

POC:
UNIT: 2D LAAD

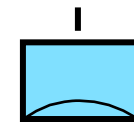
- Purpose: To provide a sensing function well forward of Human operated air defense observation posts. Providing a live-feed over TAK to remote operators dispersed throughout a littoral environment.

- Concept of employment: Set to loiter in key terrain in tandem with shore-based radar platforms to maximize air domain awareness along avenues of approach to key terrain, facilities, or other.





COUNTER UAS (C-UAS)



➤ Developing:

Line of Activity

➤ Developing:

Task



Notes

- Name: **CROW UAS**
- Length: 18 in
- Width: 18 in
- Height: 6 in
- Weight: 4 lbs
- Range:
- Battery Life:
- Battery Type:
- Battery Charging Time:

- Purpose:

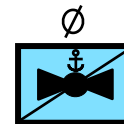
- Concept of employment:

POC:
UNIT: 2D LAAD





ANTI-SHIP MISSILE (AShM)

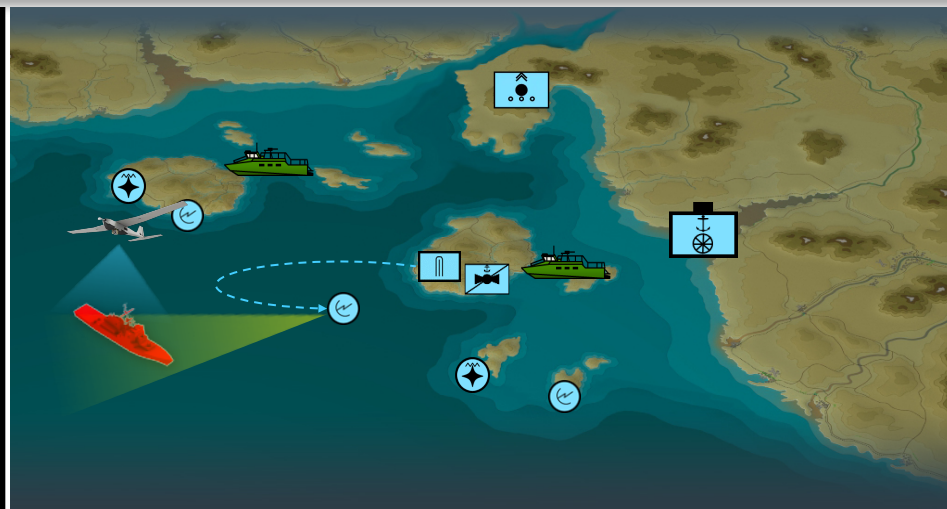


Line of Activity

- **Maritime Domain Awareness:** Maritime Domain Awareness (MDA) activities focus on information sharing and exchanges of national maritime common operating pictures (COP) and, while not focused on intelligence sharing, may have some intelligence aspects.

Task

- **Conduct ISR in support of the Task Force (TF):** [PN]'s ACE is able to conduct Intelligence, Surveillance, and Reconnaissance (ISR) operations for the TF.
- **Conduct battalion combined arms integration:** [PN] is able to conduct combined arms integration operations, at the battalion level.
- **Anti Surface Warfare:** [PN]'s organic coastal defense missile battery sensing capacity is enhanced through the integration of USMC forces.



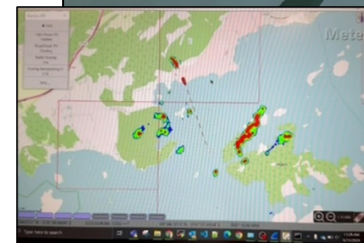
Notes

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- Range: 16 NM
- Battery Life: 4 hrs at 4 kts, 24 hr loiter
- Battery Type: Lipo
- Battery Charging Time: 3 hrs

POC:
UNIT:

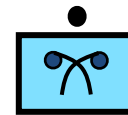
- Purpose: Meant to compliment the system of systems found within a USMC Maritime Surveillance Platoon with its effort to provide coastal defense battery with an enhanced forward sensing function.

- Concept of employment: Loitering forward in key maritime terrain to assist with larger coastal surveillance radar systems while minimizing the human requirement for forward observation. Radar "TRACKS" are pushed over TAK to observation posts interspersed throughout a littoral environment.





RADIAC (CBRN)



Line of Activity

- **WMD/CBRN Defense:** Allies and partners are able to effectively defend against CBRN/WMD threats, maintain, and/or restore essential services and prepare for, manage, and mitigate problems resulting from WMD/CBRN events to restore normalcy to the affected area.

Task

- **Subject Matter Expert (SME) exchanges:** Annually, USMC conducts subject matter expert exchanges with the Swedish Marines to develop compatible interoperability across warfighting functions.



Notes

- Name: **RADIAC AMY**
- Length: 78 in
- Width: 24 in
- Height: 22 in
- Weight: 150 lbs
- Range: 12 NM
- Battery Life: 3 hrs at 4 kts
- Battery Type: Lipo
- Battery Charging Time: 3 hrs.

POC:
UNIT: MWSS CBRN

- Purpose: To give an alternative to direct human detection of potential CBRN effects in a littoral environment.

- Concept of employment: The Radiological Detection System is mounted aboard an unmanned surface vessel to facilitate maximal standoff within a littoral or riverine environment.



Gamma Mini Log	
Dimensions	15"x6"x4"
Weight	< 15 lbs
Sensor	2"x4"x6" CsI
Resolution	< 8.5 %
Operation	Vehicle or Backpack

Information		ORCA Boss
Dimensions		4.25" X 3.25" X 1.25"
Weight		0.6 lbs.
Display		LCD: 2.288" X 1.701"
Wired output - Data		Ethernet
Serial Port		USB-C
GPS Connector		SMA Male
Wireless Output		Bluetooth and Wi-Fi
Power		A/C BB2500 6x CR-123
Battery Life (BB2500)		TBD
Download File Format		ANSI M42.42

Information		Flat 4-Pack Neutron
Dimensions		1.25"x4.5"x10.5"
Weight		< 3.0 lbs
Sensor		4x He-3 Tubes
Sensitivity		108 cps/nv
Operation		Vehicle or Backpack

Information		Gamma Cylinder
Dimensions		4" dia x 10.5"
Weight		< 10 lbs
Sensor		3x3 CsI
Resolution		< 8.5 %
Operation		Vehicle or Backpack

Information		Replacer Neutron
Dimensions		4" dia x 10.5"
Weight		< 6.0 lbs
Sensor		6x He-3 Tubes
Sensitivity		162 cps/nv
Operation		Vehicle or Backpack

Information		Neutron Log
Dimensions		25"x6"x4"
Weight		< 10 lbs
Sensor		8x He-3 Tubes
Sensitivity		666.8 cps/nv

Information		Gamma Log
Dimensions		25"x6"x4"
Weight		28.3 lbs
Sensor		2x4x16 CsI
Resolution		< 8.5 %
Operation		Vehicle



AMPHIBIOUS CASEVAC



Line of Activity

- **Combined Naval Infantry Capability/Interop/Deploy:** “Combined Naval Infantry and amphibious forces Capability, Interoperability, and Standardization activities across the joint functions.”

Task

- **Casualty Evacuation:** [PN]’s ability to maneuver casualties and medical supplies is enhanced through the augmentation of experimental maneuver capabilities within a littoral environment.



Notes

- Name: **MEDIVAC RECKLESS**
- Length: 83 in
- Width: 78 in
- Height: 32 in
- Weight: 265 lbs
- Range: 12 NM
- Battery Life: 3 hrs at 4 kts
- Battery Type: Lipo
- Battery Charging Time: 3 hrs

POC:
UNIT: 4TH AABN LCC

- Purpose: To provide an alternative “Lift” support to casualty evacuation and care in transit within a permissive/semi-permissive maneuver corridor.
- Concept of employment: May be employed from shore to shore, vessel to shore or shore to vessel. Can be piloted remotely or via GPS preprogrammed track.

RECKLESS + MED

