

N851 NAVAL SPECIAL WARFARE BRANCH

Captain Evin Thompson Branch Head



N851 – Primary Responsibilities



- Resource sponsor for:
 - Naval Special Warfare (NSW) service common requirements. (FY11 ~\$22.5M)
 - Navy Riverine Force. (FY11 ~\$18.2M)
- > Senior NSW advocate/advisor on the staff of the CNO.
 - NSW Urgent Operational Need (UON)/SOF related Joint Urgent Operational Need (JUON) advocate.
 - Advisor in support of N81 analyses and studies that include or support NSW/SOF equities.
- > OPNAV coordinator/advocate for Navy programs that support/involve NSW/ExW. Examples include:
 - Scan Eagle Unmanned Aircraft System (in support of NSW and USCENTCOM).
 - Small Tactical Unmanned Aircraft System (STUAS).
 - Special Operations Force (SOF) support attributes of future Navy ships.
 - Navy policy for Premeditated Personnel Parachuting (P3) operations.
 - "Naval Solution for Visit, Board, Search and Seizure (VBSS)."
 - Common Seaframe for Navy/SOF
- Represent Commander, NSW Command, as directed, in the National Capital Region.



N851 - Top Programs



Naval Special Warfare (NSW)

- Provide procurement and sustainment resources for <u>service common capabilities</u>, to include:
 - Small Arms & Weapons Mounts
 - Tactical Communications Equipment
 - Night Vision Equipment
 - Training Support Craft
 - Operational Stocks
 - Planning & Management Support Systems

Riverine Activities Program

- Provide procurement resources for initial outfitting, capability improvements and phased replacement for Riverine Group ONE and component Riverine Squadrons ONE, TWO and THREE.
- Achieve Full Operational Capability (FOC) by FY 2010 (with exceptions).
- Support establishment of a "Fourth Riverine Squadron."

Unmanned Aircraft Systems (STUAS) for L-Class ships, NSW and NECC

- Representing N85 equities (NSW, NECC and L-Class ships) in this N2N6 resourced program.
- Expeditionary Forces require STUAS Tier II vice STUAS Lite.

> Procurement/sustainment of Scan Eagle Unmanned Aircraft Systems ISO SOF

- Requested by NAVSPECWARCOM, via UONS, and USCENTCOM, via JUONS for OIF and OEF.
- Capabilities provided by the JUON employed under custody of NAVSPECWARCOM.
- N851 coordinates execution with NAVAIR program office, Task Force ISR, Naval Special Warfare Command, Special Operations Command Central and other involved/interested parties.



Naval Special Warfare



Capability Description

- ➤ Naval Special Warfare (NSW) forces conduct special operations in support of Joint Force and Navy commanders. Examples include, but aren't limited to:
 - Direct Action
 - Special Reconnaissance
 - Foreign Internal Defense
 - Counter-terrorist Operations
- ➤ NSW Forces have been deployed to OEF since 2001 and OIF since 2003.
- ➤Navy is responsible for providing resources to support NSW <u>service common</u> capabilities/sustainment.
- ➤ Categorization: Navy only program (SOCOM interest)
 - N85 Principal resource sponsor; responsible for (most) NSW service common procurements/sustainment (OMN, OPN, WPN). [N6F was responsible for resourcing NSW service common portable radios (OPN); resources now in N85.]
 - N86 Responsible for resourcing NSW service common Chemical, Biological, Radiological Decontamination Equipment (CBRDE) and Small Tactical Unmanned Aircraft System (STUAS) capabilities (OMN, OPN, APN).





USSOCOM - Resource sponsor for all **Special Operations peculiar** capabilities/sustainment, capability improvements and all NSW ammunition.



Riverine Activities



Capability Description

- ➤ Operational Riverine Force components (Riverine Squadrons) are organized, trained and equipped to conduct maritime security operations and theater security cooperation missions along inland waterways. Examples include, but aren't limited to:
 - Patrol
 - Interdiction/Visit, Board, Search, Seizure
 - Troop transport
 - Foreign Internal Defense
- ➤ N851 has been managing initial outfitting resourcing of the Riverine component of NECC since late FY05.
- ➤ Riverine Squadrons have been deployed to OIF since March 2007.
- > Categorization: Navy only program
 - N85 Principal resource sponsor; responsible for
 - procurement resources (OPN, WPN, PANMC, RDTEN)
 - N2N6 Responsible for resourcing portable radios (OPN)
 - N43 Responsible for resourcing readiness funding (OMN)
 - N86 Responsible for resourcing CBRDE (OPN, OMN)







Riverine Force OIF Activities



River/Lake Security Patrols	923
Quick Response Force missions	100
Riverine Convoy missions	689
Shoreline sweeps	354
Joint operations conducted	240
Iraq Security Force Patrols	245
Detainees screened	389
Boats impounded	76
Weapons caches found	142
Combined operations conducted	156
Unmanned aircraft hours flown	667
Aircraft control hours	268
Iraqi River Police trained	217
Partnership training (Mandays)	3501
Key Leader engagements	165
Allocations of micro grants (\$K)	111

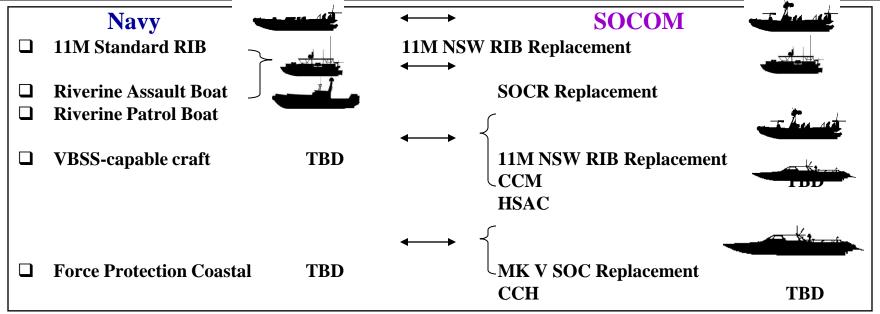


Unclassified



Future Navy - SOCOM Common Combatant Craft Possibilities





Current Navy - SOCOM Combatant Craft Commonalities

- ✓ Navy's Riverine Assault Boat and SOCOM's SOCR (they are the same craft)
- ✓ Small arms, weapons mounts and ammunition
- **✓** <u>Tactical communications equipment</u>
- ✓ On-board sensors (Electro Optic/IinfraRed systems)
- ✓ Individual visual augmentation systems
- ✓ Chemical-Bio protective/decontamination equipment
- ✓ (Tier I) Unmanned Aircraft System (Puma All Environment Capable Vehicle)



What N851 Needs from Industry



- Common Combatant Craft
 - Versatility/Modularity
 - Speed
 - Seakeeping
- Modular Armor
 - People
 - Equipment



What N851 Needs from Industry



- Lighter weight body armor
- Lighter weight modular/removable vehicle & boat armor
- Improved anti-corrosive coatings for weapons
- Batteries with higher power densities and lighter weight
- Tools to aid with concealment of people and equipment
- Portable translation devices and even better, ability to manage pools of vetted native speakers that can be tapped into
- (N2N6/CT Support) Data mining tools that can reach across the plethora of databases that can't talk to each other
- Heavy Fuel Engine for shipboard UAS ops



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BACKUPS



Expeditionary Basing



LAND Basing

- Expeditionary Camp
- Force Protection
- Civil Affairs
- Medical
- Expeditionary Logistics

SEA Basing

- High Speed Vessel
- Landing Ship Dock (LSD)
- Landing Platform Dock (LPD)
- Littoral Combat Ship (LCS)
- Utility Craft









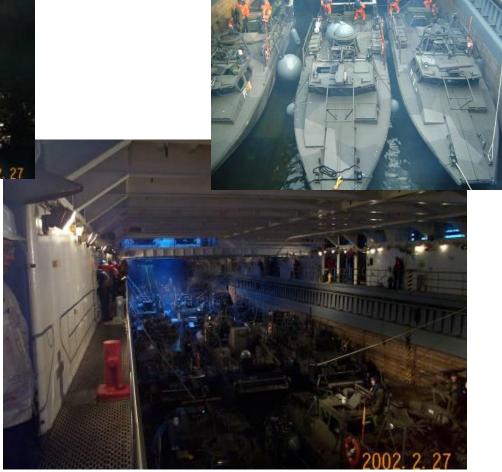
mbatant craft on ships is not new!











16 Swedish RCBs landing in the LSD 41 class (USS TORTUGA) well deck



Lessons Learned (Representative)



- All sailors aren't prepared for 'riverine' duty.
- 'You don't know what you don't know.'
- All small craft have payload limitations.
- Need for a robust (non-organic) intelligence collection/ analysis capability.
- Sustained awareness of 'burn rate' of major equipment, based on training usage, environmental factors, etc.
- Timing of personnel assignment with training cycle/deployment rotations.
- Sufficient time to incorporate counter-insurgency/foreign internal defense training into pre-deployment cycle.



USN Riverine Craft





Riverine Assault Boat (RAB)

Riverine Patrol Boat (RPB)



Riverine Command Boat (RCB)
Combat Rubber Raiding Craft
(CRRC)





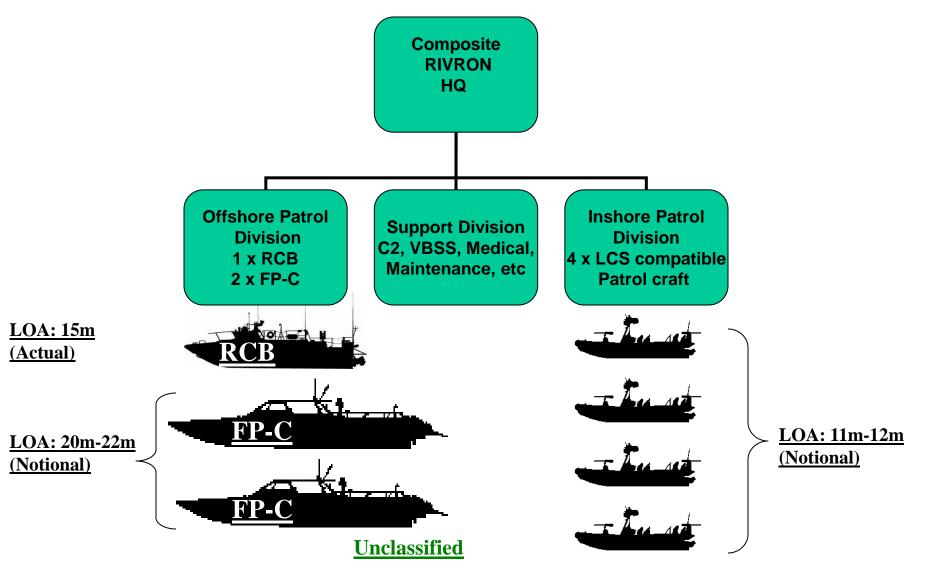
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Fourth (Composite) Riverine Squadron



(Alternative)



Unclassified



Riverine Vehicles











MRAP (Mine Resistant Ambush Protected)



Weapons





















M240G MH

Unclassified



NAVAL SPECIAL WARFARE (N851)











Service Common Capabilities

- Pre-positioned operational stocks
- Visual Augmentation Systems
- Training support craft
- Small-arms and weapons mounts
- Tactical Communications Equipment

Irregular Warfare (IW)

- Developing Navy IW portfolio investment strategy
- Provide recommendations for Navy unique, risk-mitigating solutions to Joint IW efforts

Future Capabilities

- Integrate into future Navy capabilities and concept development of unmanned systems
- Provide expertise in development of future Special Warfare service common items











NSW Scan Eagle UAS



Mission: Procured in response to NSW and Joint SOF Urgent Needs, the Scan Eagle UAS is provides Full-motion Video (FMV) intelligence, surveillance, reconnaissance, and targeting support to tactical users.

≻Operational Employment:

- 9 Navy-owned systems
 - ■6 x Operational, 2 x training, 1 x Op Spare
- Hub & Spoke Operations (300 hrs/month)
 - ■Spoke (Forward Control Station) ~100km

>Equipment:

- •Scan Eagle UAS (12 air vehicles per site)
- •Ground Control Stations, Launch/ Recovery, Pack-up & Maintenance kits, Ops/Maintenance Shelters



• IOC: Nov 08 (OIF), Aug 09 (OEF)

OIF (as of 30 Sep 09):

• Sorties: 346

Total Flight Hrs: 1847 hrs

OEF (as of 30 Sep 09)

• Sorties: 58

Total Flight Hrs: 450 hrs

Rapid Development Deployment (RDD) – Special Payload Efforts



Performance			Winglets
Max Level Speed	70 knots	36 m/s	
Cruise Speed	49 knots	25 m/s	Propulsion Unit
Service Ceiling	16,400 ft	5000 m	Wings
Endurance	15 hours	15 hours	
Dimensions			
Wing Span	10.2 ft	3.1 m	Nose
Fuselage Diameter	7.0 in	0.2 m	
Length	3.9 ft	1.2 m	Turret Avionics
1			



Riverine Assault Boat (RAB)



Characteristics			
Hull Type	High-grade Aluminum Rigid		
Length	33 ft		
Beam	9 ft		
Draft	2 ft		
Crew	7		
Passengers	-		
Twin Diesels w/Water Jets	Yes		
Top Speed: full load	30 knots - cruise 40 knots - sprint		
Range	250 nm		
Fuel Capacity	250 gallons		
C-130 Transportability	No		
Combat Load	20, 500 lbs.		
Bow Door/Ramp	No		
Weapons Foundations	Multiple		





Unclassified



Riverine Patrol Boat (RPB)



Characteristics		
Hull Type	High-grade Aluminum Rigid	
Length	39 ft	
Beam	10 ft – 2 in	
Draft	2 ft	
Crew	5	
Passengers	8	
Twin Diesels w/Water Jets	Yes	
Top Speed: full load	35 knots - cruise 38 knots - sprint	
Range	275 nm	
Fuel Capacity	300 gallons	
C-130 Transportability	No	
Combat Load	22, 800 lbs.	
Bow Door/Ramp	Yes	
Weapons Foundations	Multiple	





Unclassified



Riverine Command Boat (RCB)



Characteristics		
Hull Type	High-grade Aluminum Rigid	
Length	49 ft	
Beam	12 ft – 5 in	
Draft	3 ft	
Crew	4	
Passengers	26	
Twin Diesels w/Water Jets	Yes	
Top Speed: full load	40 knots - cruise 45 knots - sprint	
Range	>320 nm	
Fuel Capacity	300 gallons	
C-130 Transportability	No	
Combat Load	40, 000 lbs.	
Bow Door/Ramp	Yes	
Weapons Foundations	Multiple	





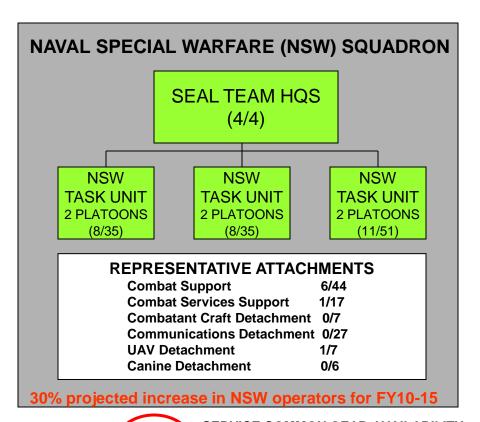
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Naval Special Warfare

Navy Service Common Support Rationale









Operational Stocks

Current Inv: ~85%

Req: 5

Inv: 4.5



Current Inv: ~25%

Req: 7200 Inv: 1760 Current Inv:~50%

Req: 8800 Inv: 4500



OBJECTIVE

♦ PR11

♦ POM10

Professional Development

- Language School
- Breacher
- Sniper
- HRST/DIVE SUP/RSO

Unit Level Training

- Land Warfare Mobility
- · CQC
- Combat Diving

Air OPS

- MOUT
- MAROPS

Squadron Integration Training

· SWCC, AIR, SEALs

PRE-POM10

- Full mock-up Combat training.
- Certification Exercises/Evaluations

Deployment

Global presence

NSW Squadron Cycle (24 MOS)

\$345M Requested (POM10)

\$345M Approved (PR11)



N85 - Naval Special Warfare Relationship



- United States Special Operations Command (USSOCOM) has service-like responsibilities to plan, program, budget and execute resources for Special Operations (SO) – peculiar support, services and equipment.
- Military Departments have support responsibilities to plan, program, budget and execute resources for service common capabilities for Special Operations Forces (SOF). Principal guidance is provided by:
 - Title 10, United States Code, Sections 165, 167.
 - DOD Directive 5100.1; Functions of the Department of Defense and Its Major Components.
 - Memorandum of Agreement Department of the Navy and USSOCOM.
- ➤ N85 is OPNAV's principal advocate and resource sponsor for the Navy component of USSOCOM Naval Special Warfare (NSW) Command.
 - Other NSW (resource) sponsors on the OPNAV staff include:
 - ➤ N86 Chem/Bio equipment, Small Tactical Unmanned Aircraft System (STUAS), SOF support attributes on future surface combatants.
 - ➤ N88 Navy helicopter flight hours in support of NSW.
 - ➤ N87 SOF support attributes onboard Navy submarines.
 - ➤ N6F <u>Some</u> service common portable radios and electronics required by NSW (and NECC's Riverine component).
- During each POM and PR cycle, N85 considers requests submitted by Commander, Naval Special Warfare Command for sustained and/or increased service common resourcing support.
 Unclassified