



Customers: Fleet Operators

Naval Special Clearance Team ONE

and

EOD Mobile Units and Mobile Diving Salvage Units

EOD Fleet operators currently operating UUVs:

- EODGRU ONE
 - EODMU SEVEN
- EODGRU TWO
 - MDSU TWO



Mission focus on:

- Underwater Ordnance Detection
- Reacquisition
- Location
- Neutralization
- Recovery, and Exploitation Missions
- Salvage Operations



NSCT-1 charter combines 3 Communities:

- Naval Special Warfare
- USMC Reconnaissance
- Explosive Ordnance Disposal

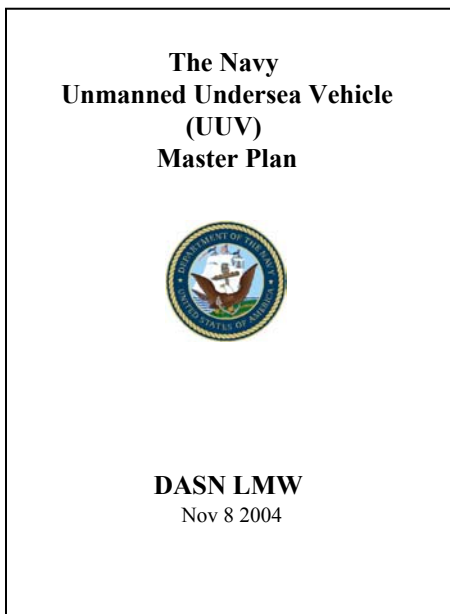
Consists of 3 Platoons:

- Marine Mammal Systems Platoon
- Unmanned System Platoon
- Diver Platoon





Navy UUV Master Plan and the Navy Small UUV Strategic Plan





Fleet Employment of UUVs

EOD FORCES

Operation IRAQI FREEDOM

- *“The arrival of a relief ship laden with emergency supplies at the port of Umm Qasr on Friday followed several days of allied mine clearing efforts... in support of Operation Iraqi Freedom. The operation marked...the initial operational launch of Navy unmanned underwater vehicles, according to Rear Adm. Paul Ryan, Commander of Mine Warfare Command.”*

Inside the Navy, 31 March 2003

- *“It’s [NSCT-1 UUV Platoon] done a wonderful job for us over there in the Umm Qasr vicinity and we are looking forward to the end of the conflict to be able to tell the full story of the first operational deployment of UUVs.”*

RDML Paul Ryan, CMWC

Inside the Navy , 31 Mar 2003



- *“...[UUVs] gadgets were the main workhorses of the mine clearing effort... if one got blown up in the process, the relatively cheap price meant it would be no big deal.”*

LT Richard Haas, USN

OIC, NSCT-1

Inside the Navy ,31 Mar 2003



How should we further improve UMV testing and assessment capabilities, and at-sea experimentation support, to accelerate delivery of UMV systems to Fleet users?

- ★ Emulate the fleet user (test personnel and procedures);**
- ★ Think system suitability (i.e. Human Systems Integration focus);**
- ★ Life cycle Simulation (e.g. system employment, accelerated aging, etc.)**



1st Generation VSW MCM Unmanned Underwater Vehicle Systems: The “User Operational Evaluation Systems” Concept

★ “Fly-then-Buy” Concept

★ User Operational Evaluation Systems were; procured and provided to the Fleet to aid in:

- ★ Early engagement of Fleet in acquisition
- ★ Tactics evaluation and feedback on Fleet employment concepts
- ★ Requirements refinement
- ★ Affordability, suitability & logistics supportability concerns

