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🍞 Programs (SMCM-UUV) DESCRIPTION DACIS Programs The Knifefish Surface Mine Countermeasure Unmanned Underwater Vehicle (SMCM-UUV) is designated as an ACAT II program, and the first heavyweight-class mainstream New Search Return to Sitewide Search mine countermeasure (MCM) UVV that addresses the Navy's need to reliably detect and classify mines resting on the seafloor and buried mines in high-clutter environments and areas with potential for mine burial. Knifelish also gathers environmental data to provide intelligence support for other mine warfare systems. RESULTS · PREV/NEXT 1 RECORDS 1 1

The MCM-UUV is equipped with a high performance sonar and navigation system. The system is used to conduct scientific experiments in support of its Scientific Program of Work in the field of Mine Countermeasures (MCM). The MCM-UUV is used to investigate new technologies in the areas of sonar and navigation, and will assist, through participation in NATO trials and exercises, in the development of concepts of operations for UUVs.

variants of LCS via the common LCS interface control document.

CUSTOMERS

- - U.S. Navy PEO USC, Unmanned Maritime Systems
 Program Office | PMS 406 | WASHINGTON NAVY YARD, DC

COMPANIES

In Oct., 2011 General Dynamics won the EMD phase of the Surface Mine Countermeasure Unmanned Underwater Vehicle (SMCM-UUV) program. Bluefin Robotics Corp., initially a competitor for the program (working under prime contract N61331-06-C-0053), joined the General Dynamics team as a subcontractor.

	General Dynamics Mission Systems, Inc. Quincy, MA							
	Contracting (\$ Millions)	FY20	FY21	FY22	FY23	FY24	-	Total
	N00024-21-C-6308		\$66.5	\$2.9	\$0.05			\$69.5
	[Block Retrofit]							
	TOTAL		\$66.5	\$2.9	\$0.05			\$69.5
	Teamed With							
	General Dynamics Mission Systems, Inc. (Taunton, MA)							

General Dynamics Mission Systems, Inc. | MC Leansville, NC

 Contracting (s Millions)
 FY20
 FY21
 FY22
 FY23
 FY24
 Total

 N61331-11-C-0017
 \$21.1
 \$-1.53
 \$0.02
 \$145.0

Ultra Electronics Ocean Systems Inc. (Braintree, MA)

The PARTE IN TH

- Ultra Electronics Maritime Chantilly (Chantilly, VA)
- ASRC Research and Technology Solutions, LLC (Beltsville, MD)
 General Dynamics Government Systems Overseas Corporation (Falls Church, VA)
- L3Harris Undersea Systems, Mine Defense Systems (MDS) (Panama City, FL)
- Metron Incorporated (Reston, VA)
 WRAP RATES
- Oceaneering International Inc (Chesapeake, VA)
- The Pennsylvania State University Applied Research Laboratory (ARL) (State

SYSTEMS

The Knifefish system includes two UUVs, an operator console, a planning and post mission analysis (PMA) station, and an Iridium modem with an antenna for communication with the UUV when it is surfaced.

The Knifefish system is designed for deployment from the littoral combat ship (LCS), vessels of opportunity or from shore to detect and classify buried, bottom and volume to detect and classify buried, but the same to detect and classify buried. The same to detect and classified but the same to detect and classified buried but the same to detect and classified but the same that the sam mines in high-clutter environments.

<u>August 2019</u>. The Navy announces that the Knifefish program has achieved Milestone C approval. The decision clears the way for Low-Rate Initial Production (LRIP) of the

system. 2017. Knifefish expected to attain Initial Operational Capability (IOC)

February 2016, General Dynamics acquires Bluefin Robotics, provider of the Knifefish vehicle, from Battelle Memorial Institute

<u>August 2013.</u> General Dynamics successfully completes the comprehensive risk reduction program for the U.S. Navy's Knifefish Surface Mine Countermeasure Unmanned Undersea Vehicle (UUV) program.

April 2013, General Dynamics AIS successfully completes the critical design review COR) for Knifesh one month ahead of schedule. The General Dynamics team will now begin the development of the system hardware and software to integrate the approved design via the fabrication of three engineering development modules.

September 2011. The U.S. Navy's Naval Sea Systems Command (NAVSEA) awards General Dynamics Advanced Information Systems an \$86.7 million Engineering and Manufacturing Development (EMD) contract (N61331-11-C-0017) to design and build

<u>August 2006</u>. The U.S. Naval Surface Warfare Center, Panama City (NSWC-PC) (Panama City, FL) awards Bluefin Robotics Corp. (Cambridge, MA) an \$18 million, cost-plusward-fee contract (N61331-06-C-0053) for the design, development, fabrication, and test of the Surface Mine Countermeasure Unmanned Underwater Vehicle (SMCM-UUV), and increment 2 user operational evaluation system.

■ Knifefish Surface Mine Countermeasure UUV

SUMMARY

NAICS Codes 541330 >

RECENT ACTIVITY

Synopsis for GPS Iridium Repeater Systems 12-20-23

Sources Sought: GPS Iridium

Repeater Systems
2 12-6-23

Synopsis for Global Positioning System (GPS) Iridium Repeater (IR) Systems 11-9-23

Sources Sought: GPS Iridium Repeater Systems O 10-18-23

Notice of Intent to Sole Source

Mobility Training **○** 6-22-23

Personal Effects Management **⊙** 5-2-23

■ PROGRAM SUPPORT

NEWSWIRE GLOBAL FORECASTS

DoD BUDGET

RELATED LINKS

■ DESCRIPTION

Contracts In

Subcontracts Out

SUBCONTRACTS (FPDS)

N00024-21-C-6308

N61331-11-C-0017

■ CONTRACTS

COMPANIES

SUBS/SUPPLIERS

■ COMPETITORS SEE ALSO

■ INTEROPERABILITY

RDT&E

Procurement OPPS

TOOLS

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DACIS FYI

MDAP/ACAT Datasets Pro Tips

Knifefish will help greatly reduce risk to Navy personnel and ships by operating in minefields as an off-board sensor, while the host ship stays outside the minefield boundaries. The modular, open Knifefish has been designed to integrate with both

The program office for the Surface Mine Countermeasure Unmanned Underwater The program onice or the Surface Mine Countermeasure Onlineme Connectwater Vehicle (SMCM-UIV) program is the Unmanned Maritime Systems Program Office (PMS 406), one of six program offices within the Navy's U.S. Navy PEO Unmanned and Small Combatants (PEO USC).

■ U.S. Naval Research Laboratory | NRL | WASHINGTON, DC

U.S. Naval Sea Systems Command

■ U.S. Naval Surface Warfare Center, Panama City Division | NSWC PCD | PANAMA CITY, FL

U.S. Naval Surface Warfare Centers Indian Head Division

NATO Undersea Research Center (NURC) | NURC | LA SPEZIA, ITALY

