# <u>ACSM</u>

# SUBSEA RESCUE OPERATIONS

# Track record of wreckage survey & submarine rescue ROV operations

#### 2009 - 2017: 'Cartago' submarine rescue sea trials

The Comanche 12 ROV operated by ACSM personnel onboard the SASEMAR's vessel B/S Clara Campoamor has taken part in the Spanish Navy 'Cartago' yearly manoeuvres since 2009. Such operations include scenarios with wrecked submarines and operations involving location, ROV survey, ROV assistance, and crew rescue.



## 22 March 2017: Assistance on sunken fishing vessel

Onboard the Clara Campoamor Spanish Maritime Safety Agency (SASEMAR), personnel successfully mobilized and operated the Sub-Atlantic Comanche 12 ROV for searh and rescue on the sunken fishing vessel "El Fairell" who went missing after their vessel collided with the Russian tanker "Midvolga 2".



# 01 APRIL 2014: Fishing vessel wreckage survey & divers assistance

Onboard the BS Don Inda the ACSM personnel successfully mobilized and operated the Sub-Atlantic Comanche 12 ROV for survey and divers assistance on the sunken vessel "Mar de Marin".



# 18 OCT 2011: 'Woodfrord 11' wreckage survey and combined operations

The Sub-Atlantic Comanche 12 ROV took part of the ROV & Divers combined operations for the survey and oil tank sampling of the British tanker wreckage "Woodford", in front of the Castellon coast.



#### 27 MAY 2011: 'Bold Monarch' NATO submarine sea trials.

The Comanche 12 ROV operated by ACSM personnel onboard the vessel B/S Clara Campoamor took part in the NATO "Bold Monarch" manoeuvres; Submarine rescue and assistance.



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# Track record of wreckage survey & submarine rescue ROV operations

## 22 OCT 2010: Anchor recovery in Cartagena

Successful recovery of a heavy anchor and chain using ACSM design arrangements.





# 05 FEB 2010: Helimer 207 wreckage rescue operation

ACSM personnel in charge of the SASEMAR's Comanche 12 ROV, successfully leads and carries out the rescue operation of the Helimer 207 helicopter wreckage at Almeria last January 21st 2010. The bodies of three of the crew and the helicopter wreckage including the Black Box were recovered at 85 m SWD in front of Almeria coastline.



### 08 JULY 2009: British tanker wreckage survey

During the SASEMAR ROV 2009-1 trials onboard the BS Clara Campoamor, ACSM personnel successfully mobilized and operated the Sub-Atlantic Comanche 12 ROV. During trials, the search and inspection of the "Woodford" shipwreck, a British tanker sunken when the Spanish Civil War, were carried out.



# 18 SEP 2007: Fishing boat wreckage rescue operation

ACSM personnel aboard B/S Don Inda designed and carried out the successful rescue operation of the fishing boat "Nuevo Pepita Aurora" wreckage, sank near Algeciras. With the assistance of two ROVs (Cherokee 02 and Argus), our personnel performed the ACSM-developed "Wolf Jaw" operation. It allowed the recovery of the wreckage from 140 m depth and transport it to a shallow area to enable divers access.



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