



SPANISH MARITIME SAFETY AGENCY (SASEMAR)





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Spanish Maritime Safety Agency (SASEMAR)

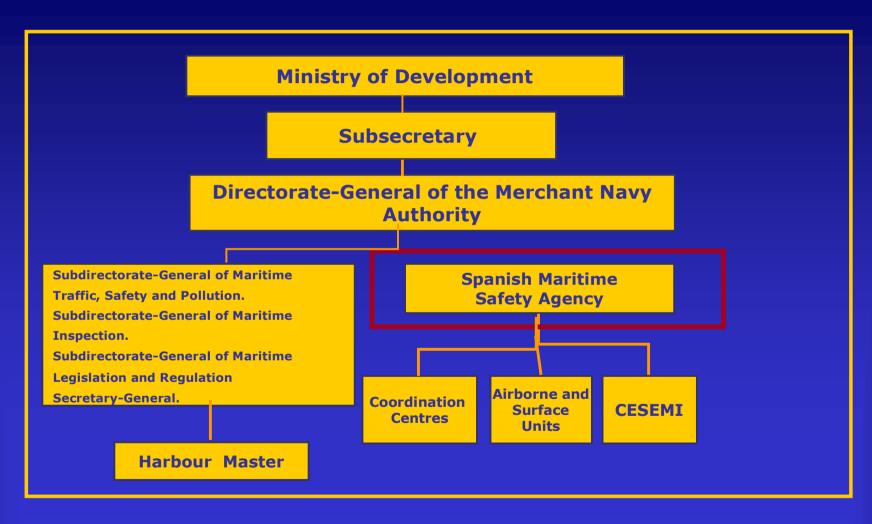
- It is a Public Body under the Ministry of Development
- Set up in 1992 under the Ports and Merchant Navy Act.
 - Scope of action is to provide services in:
 - Search and Rescue
 - Vessel Traffic Service
 - Protection of the Marine Environment



Introduction









Introduction





1986







17 Years After





For a proper understanding of the "Castillo de Salas" Operations we shall consider in three phases:

1986 THE ACCIDENT
2001 FUELOIL RECOVERY
2003 WRECK REMOVAL













"Castillo de Salas" Bulkcarrier Technical Data

Name: Castillo de Salas

Lenght: 261 mts.

Beam: 40 mts.

Draft: 14,5 mts.

Cargo: 99.277 tn. of coal

Shipowner: Empresa Nacional Elcano











The 11th January 1986 the bulkcarrier "Castillo de Salas" run aground over a rocky bottom.







By the end of January 1986, the "Castillo de Salas" parted in two pieces and sunk in Bay of Gijon.











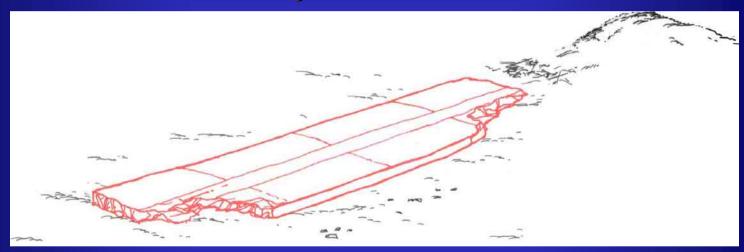
The 22 th February the BOW was refloated after the coal cargo was removed. And then foundered in a 4.000 mts depth, 40 miles north Cape Peñas.







▶ 6 th November 1986; The Authorities announced that the fueloil extraction and the scraping operations were concluded satisfactorily.



> Although the stern was broken up, it was agreed to leave the double bottom tanks remainings on the sea bed as a biotope.





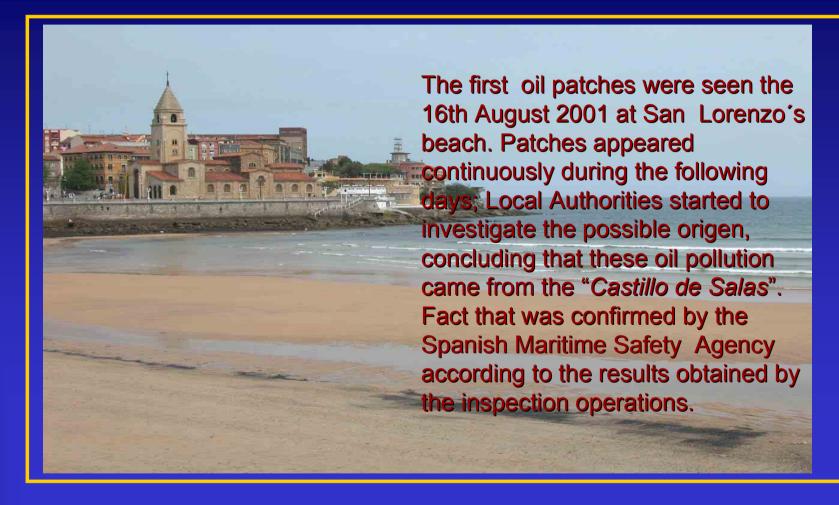


2001







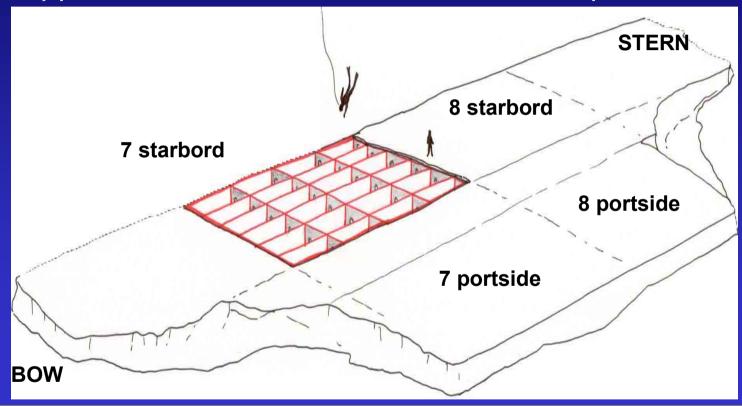








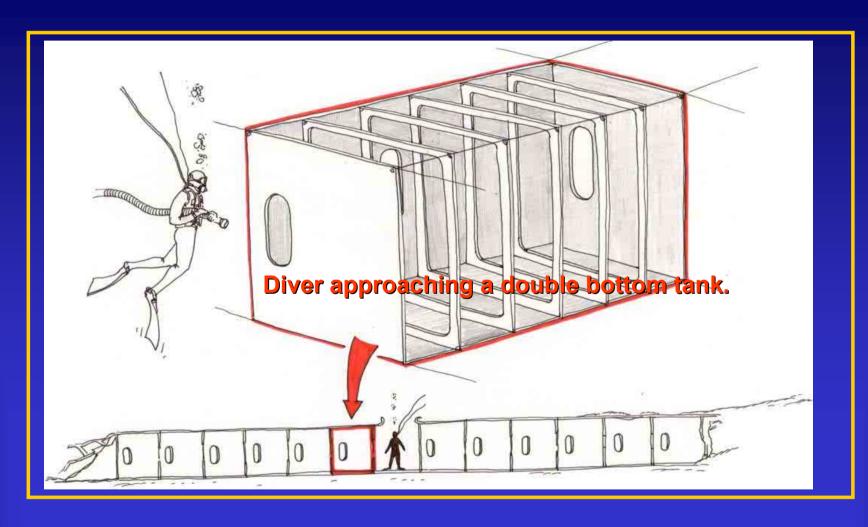
Appearence of the structure after the inspection.









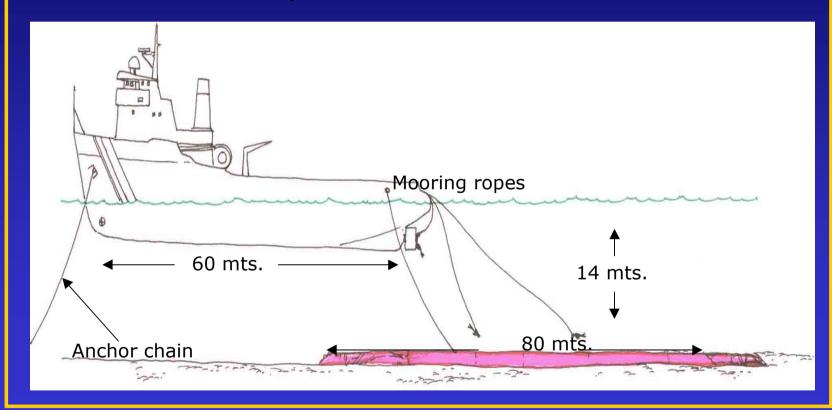








Rescue vessel position in relation to the wreck.

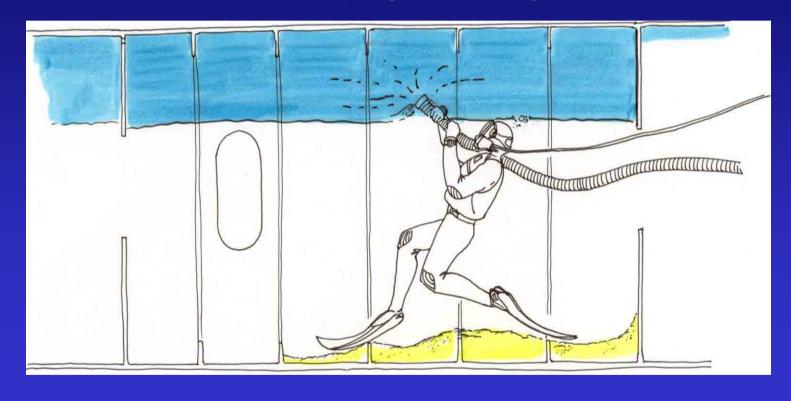








Fueloil Pumping Recovery.







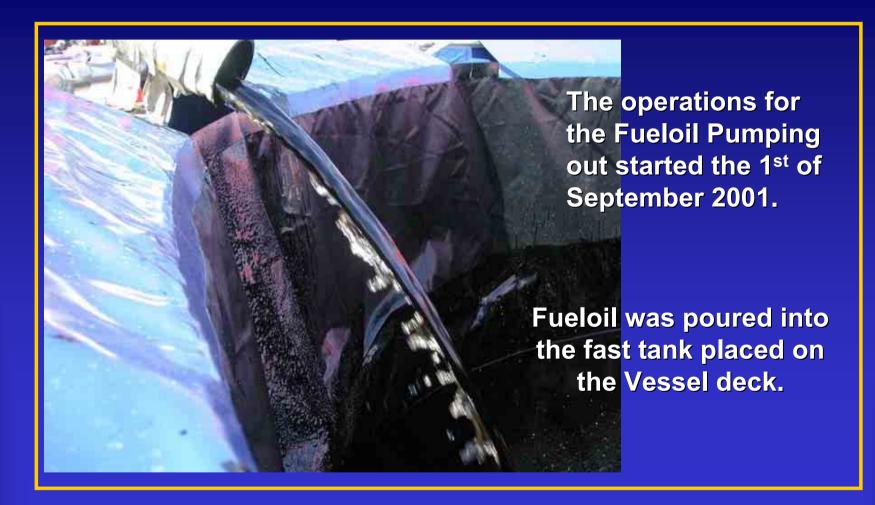


























➢ Oil Pumping Out Operations 1st Stage ended the 23 October 2001.

Total fueloil recovered 256.600 Kg

The 2nd stage started on May 2002 and ended the 19 June 2002.

The operations were hampered by the weather conditions.

Total fueloil recoverd 148.720 Kg

With these oil pumping out works, the operation was concluded. Although the Surveillance program was still activated.





WRECK RENOVAL May-July 2003







- ➤ 2002 The Ministry of Development issued a public tender to remove "Castillo de Salas" wreck.
- > Technical especifications established two possible options:
 - 1- Removal of the wreckage and sinking in deep water.
 - 2- Cut, remove and shore transfer of the wreckage.
- > Tender was awared to "Titan Maritime UK Ltd".

At the end the selected option was the second one.







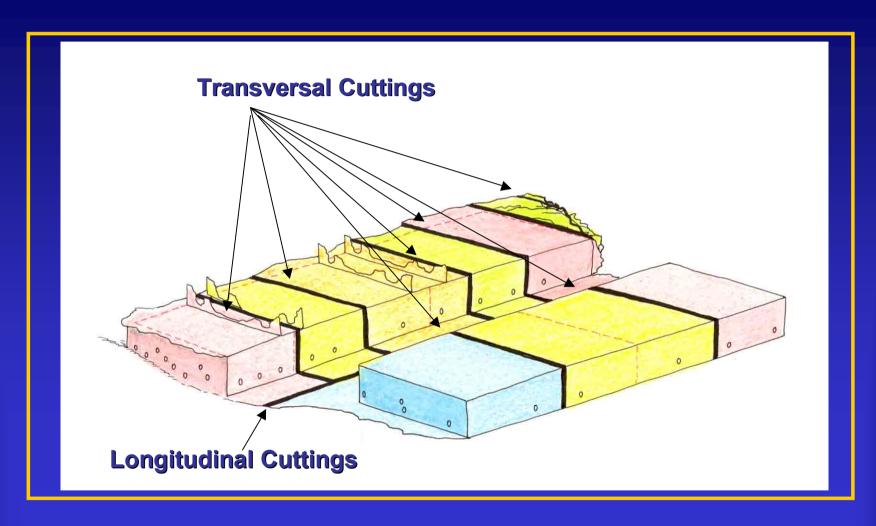
Extraction and removal of the wreckage works started in May 2003. Operations planning was:

- Cutting Wreck
- Removal of cut pieces.
- Shore Transfer.





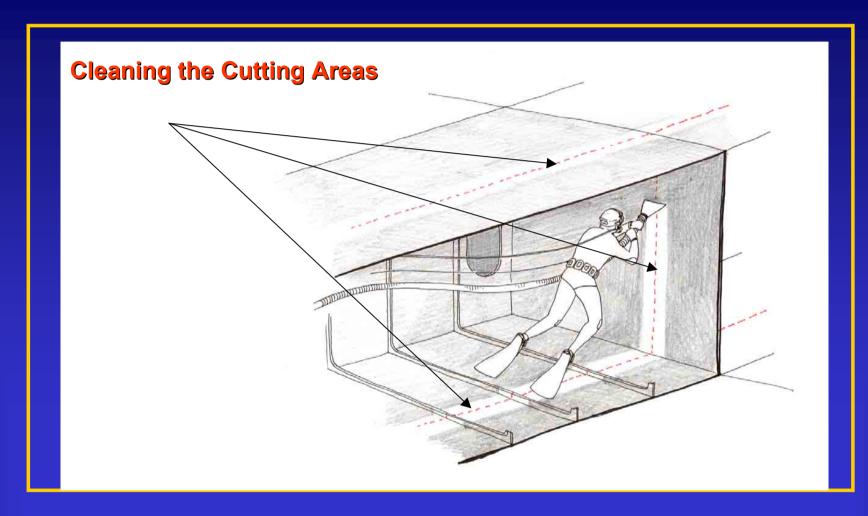








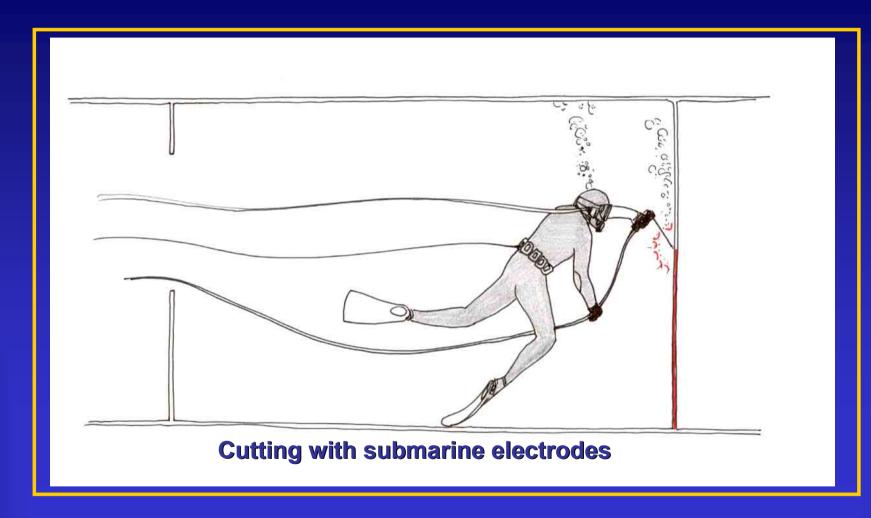








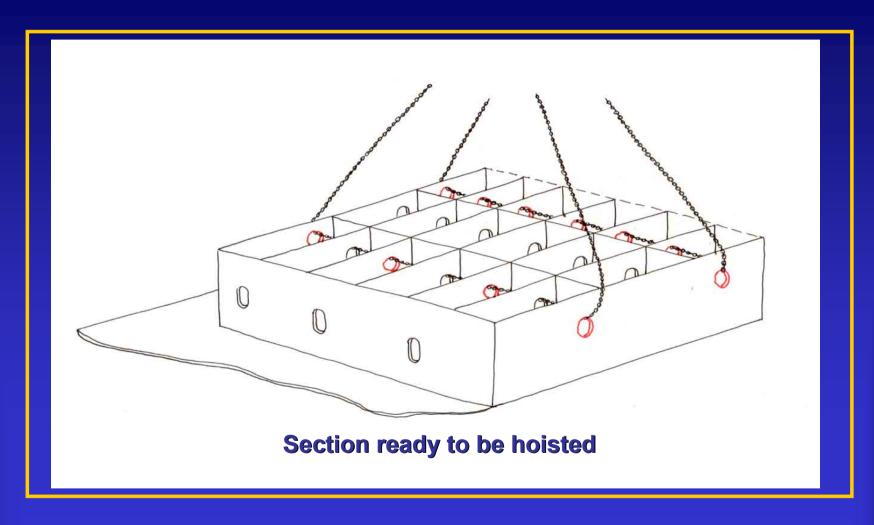










































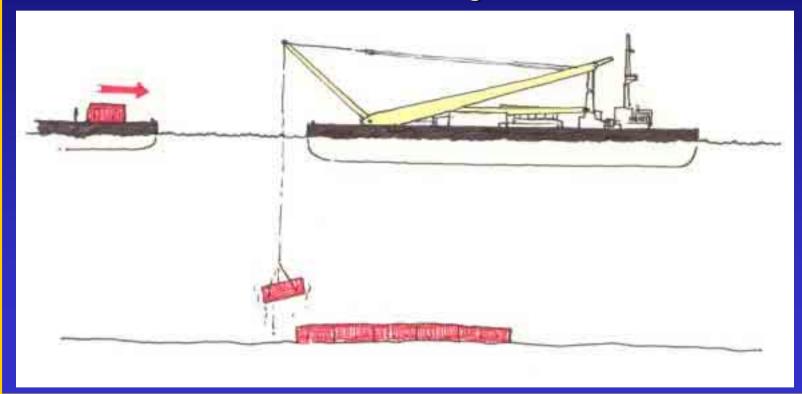








The floating crane raise the blocks to place them over the barge.







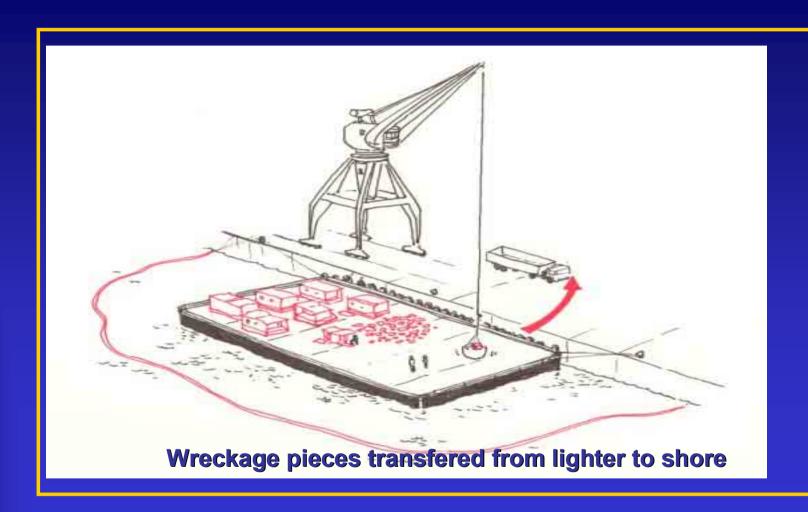


















- Information and Coordination between different Authorities (Local, Autonomical and National) with the Maritime Administration has made easier the operational works.
- With this complicated operation the Ministry of Development has eliminated the risk of fueloil spills and the potential danger for sportificity diving.
- Monitoring activities (Sonar and Batimetric studies) of the sinking area had finally put and ending point to the "Castillo de Salas" Accident.



The Ending of the Operation





Thank you for your attention



Gloria López Gamallo