

# G E O C E A N

## REFERENCES

### **TOWING AND ANTIPOLLUTION SERVICES**

**PRESTIGE 2004**

**FUEL EXTRACTION PROJECT**

**Galicia, Spain**



The oil tanker Prestige sank on November 19th 2002, after rupturing its hull in bad weather. The hull split into two sections, coming to rest in a water depth of close to 4000 m, 240 km of the north-western coast of Spain. Measurement taken during project first phase in 2003 indicate a quantity of approx. 13,000 Tonnes of oil.

In spring 2003 Repsol selected a preliminary concept based on recovering the oil by using dedicated purpose built recovery bags (concept jointly patented by Saipem and Geoccean), following installation of special extraction valves on the deck of the wreck. A doability study carried out by Sonsub, with the support of Geoccean, led to the validation test of the system in October 2003.

End of 2003, the Spanish government entrusted Repsol YPF to develop the project to recover the remaining fuel from the Prestige wreck. Repsol contracted Sonsub as main Contractor to carry out all 2004 marine activities.

During the PRESTIGE 2004 fuel extraction project, GEOCEAN has been supporting SONSUB SLtd by providing engineering, procurement and vessels for towing the oil recovery shuttles and for pollution prevention onsite during the extraction operations.



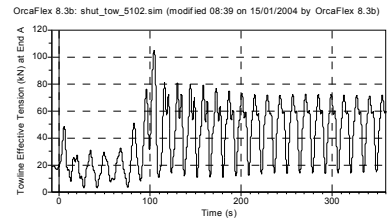
# TOWING AND ANTIPOLLUTION SERVICES

## PROJECT MAIN CHARACTERISTICS

In order to support PRESTIGE 2004 deep water and oil extraction works, GEOCEAN designed a Towing and Antipollution integrated service adapted to the deep water oil recovery shuttles .

### ENGINEERING

- Shuttles towing numeric simulation
- Interface with shuttle design
- Towing model tests
- Vessels and equipments selection
- Towing procedures (reviewed by Noble Denton)
- Project Oil spill prevention procedures



### OPERATION MEANS : 4 vessels

#### DPI Oil Recovery Supply Vessel:

- Towing vessel
- Support shuttle ballasting operation
- Support diving spread
- Shuttle transfer operations to ROV vessels
- 300 m oil boom and pumping capacity
- 500 m3 oil recovery capacity
- Shuttle monitoring w/ load cell and Hipap 500



#### Assistant Towing tug

#### Antipollution Supply vessel:

- Dynamic oil booms
- 800 m oil boom and pumping capacity
- 350 m3 oil recovery capacity



#### Antipollution Tug

### CONTRACT CHRONOLOGY

- |  |          |
|--|----------|
| • Study/design/calculation             | 2 months |
| • Model tests                          | 1 month  |
| • Procurement/Mobilisation/Preparation | 1 months |
| • Operations                           | 5 months |



**GEOCEAN**

520 Avenue de Jouques  
13685 Aubagne Cedex France  
Tél. : 04.42.18.02.18 Fax : 04.42.18.02.20  
Email : [info@geocean.fr](mailto:info@geocean.fr)  
Site internet : <http://www.geocean.fr>

