

### MATAGORDA DRY DOCK

PUERTO REAL (CADIZ) - SPAIN

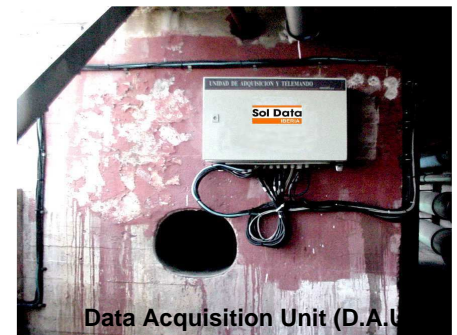
#### Monitoring system of the Matagorda dock



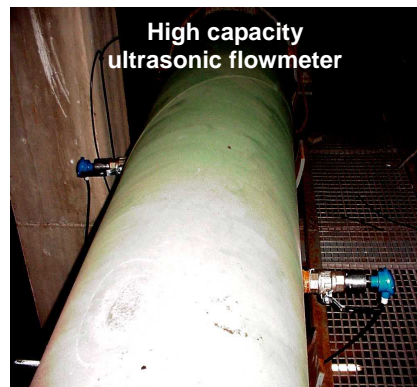
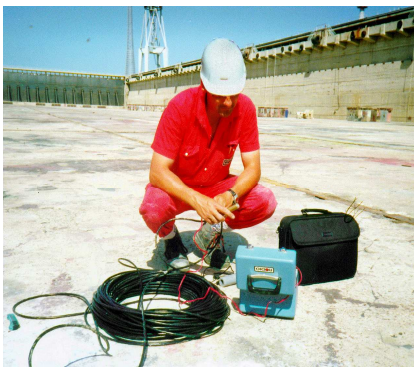
The installed telemetric data acquisition system enables, through the GEOSCOPE software, a real-time visualization of the data obtained thanks to the piezometers, mareograph and flowmeter installed, as well as their recording with a possibility to present the trend through the historical records.

To monitor the behavior of the dock's bottom slab during the operations of water filling or drainage, vibrating wire piezometers were installed below and around the 500 m dock structure.

The high capacity ultrasonic flowmeter was installed on the main pumping pipe situated in the pumping room of the dock.



A special attention has been paid to local marine environment and corrosion using high level of protections and specifically designed instruments.



In addition, a large capacity ultrasonic flowmeter has been installed in order to measure, in real time, the salted water flow and to determine the pumped water volumes. The system enables a highly accurate estimation of the pumping times and the water decrease.

OWNER :	EMPRESA NACIONAL BAZAN DE CONSTRUCCIONES NAVALES MILITARES
DATE OF WORKS :	2001
<b>WORKS DONE :</b>	
	<ul style="list-style-type: none"> <li>• Installation of :             <ul style="list-style-type: none"> <li>- 54 vibrating wire piezometers,</li> <li>- 1 mareograph,</li> <li>- 1 debitmeter by ultrasounds.</li> </ul> </li> <li>• Real-time and automated data acquisition system</li> </ul>