

# Maritime and Coastal Zone Management in Uruguay



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**Client:** Oficina of planeamiento y presupuesto (OPP) de la Republica oriental del Uruguay

**Date:** 2001 – 2002

**Budget:** € 500 000

**Location:** Republica Oriental de Uruguay

**Partners:** CSI Ingenieros

## Assignment:

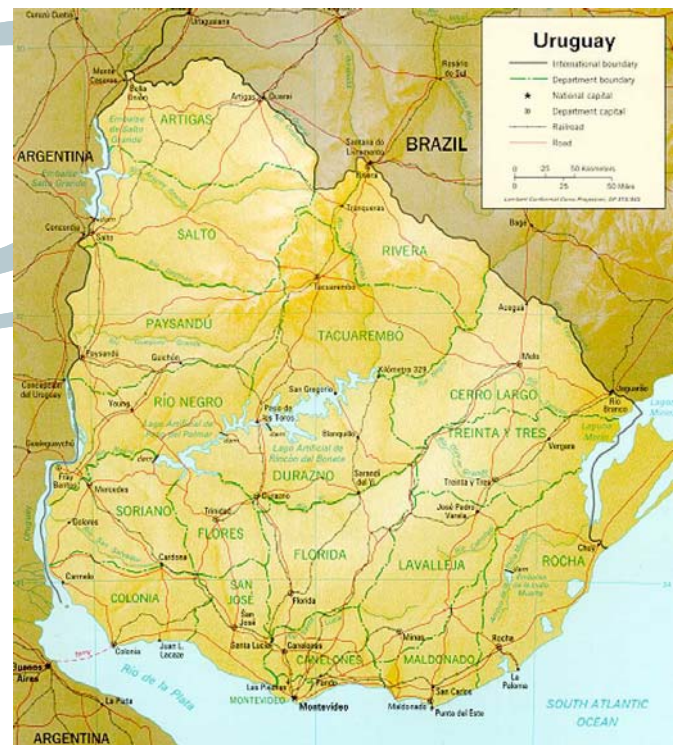
The consultant group was appointed the detailed analysis of the existing contingency and maritime navigation management plans in Uruguay. One of the main objectives of the study was to assess and propose the necessary improvements in order to meet international standards for integrated coastal zone and maritime zone management.

## Scope of Services:

- Analysis of existing management organisation
- Institutional strengthening
- Preliminary design of navigation safety and eco-system protection systems
- Oil spill response
- Emergency response plan
- Maritime navigation safety
- VTS, AIS + Aids to Navigation
- DGPS
- Dangerous goods
- Hydrometeorology
- Dredging/disposal

## Technical Description:

The water team of Soresma-haecon, in co-operation with CSI Ingenieros (Montevideo), was appointed for the maritime and coastal zone management study which comprises the Atlantic coast (Chuy to Punta del Este), the Río de la Plata (Punta del Este, Montevideo up to Nueva Palmira) and the Río Uruguay (Nueva Palmira to Fray Bentos), in Uruguay.



*Coastal and maritime zone of Uruguay considered by this study*

The mission's scope includes assessment and improvement study of all management aspects related to :

- maritime and fluvial navigation safety
- emergency response planning (oil spills, toxic wastes, ...)
- dredging and disposal in ports and waterways
- management of dangerous and hazardous goods
- environmental sensitivity analysis and monitoring
- legislation and regulation.



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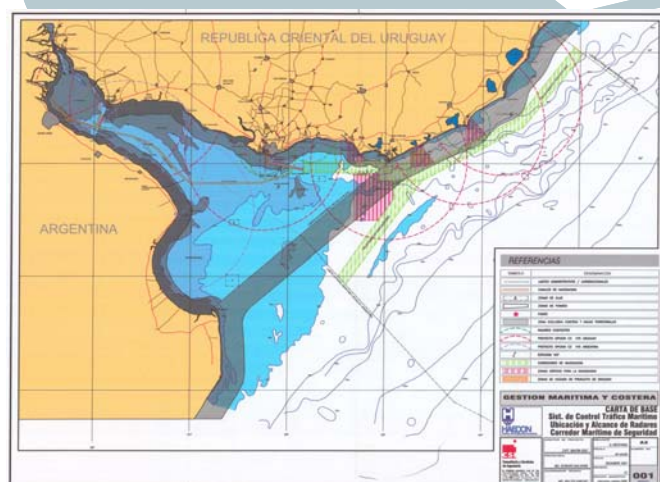
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Bay of Montevideo

The assignment is subdivided into 4 modules :

- Mod. A : Management of maritime and coastal zone
- Mod. B : Management of ports and waterways
- Mod. C : Implementation of global environmental facility (GEF, UN)
- Mod. D : Institutional strengthening and capacity building



General map of the study area (Frente Atlantico / Rio de la Plata / Rio Uruguay) with radar coverage for VTS (circle-lines)

The capacity building programme consisted of a detailed analysis of the existing situation, the comparison with European systems, a study tour in Belgium and a report with recommendations. Topics related to navigation safety included the preliminary design of VTS (Vessel Traffic System), including the links towards AIS (Automated Identification Systems), the monitoring of the GPS-network reliability, the SAR-organisation (Search and Rescue), etc. ...

Topics related to the protection of maritime and port ecosystem, included overall Emergency Response Planning, the Oil Spill Contingency Planning, the monitoring (via aerial detection and automated data acquisition networks), etc. ...



Nueva Palmira by night

As a result, some basic principles to generate an integrated coastal zone management policy in the study area are formulated. So local authorities will be able to develop their own sustainable coast development.