

## Project Title

Puerto Caucedo, Dominican Republic

**The project involved the construction of an entire maritime shipping terminal and associated infrastructure. A joint venture of European contractors, with local sub-contractors, was employed to design and build the works. These included a 950m long breakwater to protect the 14m deep port basin and its 600m long berthing quay, the container handling yard and other facilities.**

This deep water container terminal on the Caucedo Peninsula of the Dominican Republic is intended as the country's primary facility for international shipping. In addition the port operator expects that the Republic's central location in the Caribbean Basin will facilitate Caucedo's rapid development as a strategic shipping hub for the region.

The new terminal was constructed on a 50 hectare Greenfield site within a free trade zone and has the capacity to handle 1M TEU's (twenty foot equivalent units) containers each year.

Following Hurricane Ivan in September 2004, significant settlement of the armouring layer to the breakwater was discovered.

The armouring layer comprises a single level of interlocking concrete units protecting the rock core of the breakwater. The design called for the placement of three sizes of armour blocks, 4m<sup>3</sup> (10 tonne), 9m<sup>3</sup> (22 tonne) and 16 m<sup>3</sup> (40 tonne) the smallest sizes being for the shallower water and the largest for t the end of the breakwater.

The agreed scope of remedial works envisaged the removal, storage and inspection of armour blocks for a defined area of damage, the reshaping of the rock core where it had destabilised, the fabrication of additional armour blocks to fill voids in the armour layer and the repositioning of the removed armour blocks to comply with design specification.

With structural works complete at the time of the loss the JV had to remobilise the heavy plant to site in order to undertake remedial works. In addition the JV found it necessary to hire, under long term contracts, three large cranes to remove and replace some 4000 armour blocks to 40 tonne and to place 30,000 tonnes of rockfill.

ICC were retained to assist in the evaluation and quantification of the claim.

Puerto Caucedo Container Terminal

