

[<Back](#)



With authorization of the Navy department and operational support of the Port administration of the State of the Paraná and professional divers of the APASUB thirty and quadrilateral blocks of concrete had been launched first (to the side), weighing 850 kg each, in three selected points ([figure](#)). The success of the operation ([figure 1](#) and [appears 2](#)) certified the viability of nesting of artificial reefs. For next the two years it is intended to install, beyond the artificial quadrilaterals that function as habitats and modules for

oceanographical equipment installation, new structures using the technology [Reef Ball®](#).

The technology Reef Ball®, developed for the American company north Reef Ball Development Group Ltd., was placed the disposal of the Program RAM for the Institute ECOPLAN, detainer of the rights in Brazil. The Reef Ball® was adopted by forming steady recifais systems, with raised resistance mechanics and low visual impact, beyond presenting operational easinesses (construction, transport, installation and technology transfer) and low cost of construction, accessible to the artisan fishing.

The reficais systems will be formed by esruturas Reef Ball® and quadrilaterals of concrete. The cement for the confection of 365 units of artificial reef (180 Reef Ball® and 185 quadrilaterals) was donated by the Cia. de Cimento Portland - Rio Branco. Researchers of the Laboratory of Materials and Structures (LAME - COPEL/UFPR) will supply traces (composition) of concrete that will be tested *in situ*, searching bigger durability, resistance and pH adjusted to the biological settling.

return 