Scientific researches of the department of marine logistics are connected with the sea-economic complex of the region. The Department of Marine Logistics pays attention to the design of logistics systems, taking into account regional features that include the presence of a significant length of waterways, as well as in a large number of sea and river ports.

One of the scientific directions in the department of marine logistics is the application of project management methods in the design of logistics systems.

Much attention is paid to the department of scientific problems associated with the organization of cargo operations, which are conducted in raids and in the open sea.

Theoretical bases and methods of designing devices for reducing contact loads on ship structures during operations with floating objects under conditions of wave action are developed. The analysis of a condition and prospects of development of means of protection of courts from damage at joint parking of courts in the conditions of excitement is carried out. An assessment of the effectiveness of the use of fenders on ships was carried out. Prerequisites have been created for rationing the parameters of the fence protection of ships mooring in the conditions of excitement and developing instrumental control over the safety of joint parking of ships in the roadstead and at sea. A number of existing fender devices have been investigated and prospective fender protection schemes have been developed as well as original designs of hydraulic, hydropneumatic, jet, gravity, elastic, cushion single and multi-chamber fenders to protect ships and ocean technology.

To ensure the conduct of cargo operations at the objects of the sea economic complex, the Department of Marine Logistics developed principles of optimization of calculations and automation of design of ship devices and structures working in contact with a liquid and granular medium. Particular attention is paid to the use of elastic devices and structures, which the department has been researching and developing for several years. Specific designs and devices have been developed, for example, devices for moving and compacting bulk cargo in the hold of a ship, flexible pipelines operating in sea conditions. The designs of various launching devices, ship gangways and ramps are proposed. The research of launching devices of underwater technical means is carried out, the technique of choice of basic parameters and design loads is developed.

The Department of Marine Logistics created the prerequisites for the creation of standard logistic units for water transport in the region's marine economic complex. The principles of designing a universal hull of a standard vessel for a large-scale construction are proposed. Prospects of using armocement constructions for the creation of ships and objects of ocean technology have been explored, a body of a universal barge, manufactured from armocement, has been developed.

One of the promising areas of scientific research in the field of logistics, the department considers developments in the field of increasing the export of grain and other bulk cargo through the terminal terminals of the regional sea complex. Special attention is paid to the scientific problems of transportation of oil and natural gas by underwater offshore pipelines.

Among the scientific developments of the Department of Marine Logistics an important place is occupied by the problems of safe operation of ships and hydraulic structures. The Department has developed an approach to the designation of limited navigation areas for ships and especially small coastal vessels. A methodology has been developed for calculating the maneuverability of vessels and pushed trains for inland waterways.