

LRTIT

LRIT NATIONAL CENTRE



The Long-Range Identification and Tracking (LRIT) system provides for the global identification and tracking of ships. The obligations of ships to transmit LRIT information and the rights and obligations of SOLAS Contracting Governments and of Search and rescue services to receive LRIT information are established in regulation V/19-1 of the 1974 SOLAS Convention. According to the Regulation 19-1 Chapter V of the International Convention for the Safety of Life at Sea (SOLAS-74), on the last floor of the building of the State Maritime Administration of the Republic of Azerbaijan has been created Long Range Identification and Tracking National Centre (LRIT) which equipped with the new typed navigational radio equipment which answering the appropriate recent requirements

National Centre conducts such functions as observing position of ships in the territorial waters of Republic of Azerbaijan through radar and Satellite System, providing the safety of ships' navigation, transmitting the relevant data concerning the navigational warnings and weather forecast to ships, controlling abiding by the ships requirements of the "Regulation of navigation in the territorial waters of the Azerbaijan Republic", transferring SOS signals received from ships and other information to relevant authorities and organizations and in the case of necessity organize cooperation with them, as well as creating regular operative connection and information exchange with international organizations and the similar national centers and shipping companies of other countries.



Structure and equipment of National Centre

The functions of National Centre:

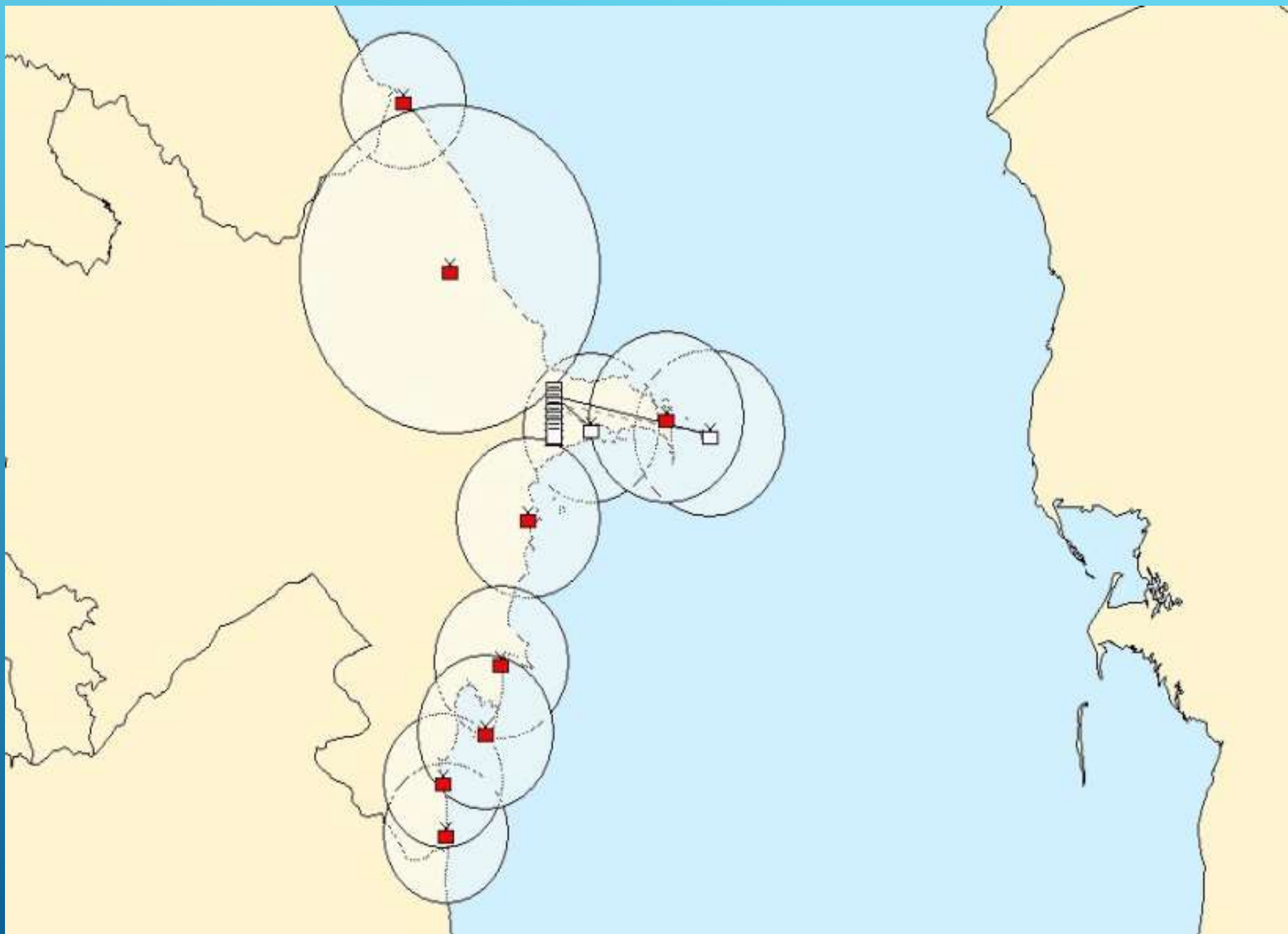
1. Vessel Traffic service
 2. Long Range Identification and Tracking of ships
 3. Global Maritime and Safety System
 4. Automatic Identification System
 5. Video Camera Control
 6. Meteo Station
- 
- A series of white diagonal lines of varying lengths and thicknesses, located in the bottom right corner of the slide, creating a modern, abstract graphic element.

Seven AIS Base stations provide a full coverage of the coastline and all of them are fully operational.

Such AIS Base stations are linked to the national network via 1(one)base station controller.

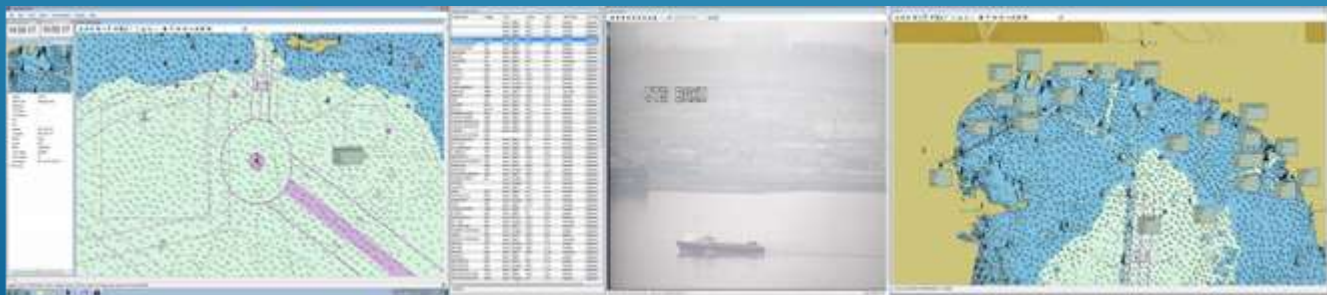
The national AIS management center is set up at
LRIT National Center

Station Identifier	Latitude	Longitude	Antenna height(meter)above sea level	End users supplied
Yalama AIS Base Station			45	Yalama AIS Base Station provides AIS data to LRIT National Center
Siyazan AIS Base Station			900	Yalama AIS Base Station provides AIS data to LRIT National Center
Chilov AIS Base Station			55	Yalama AIS Base Station provides AIS data to LRIT National Center
Baku AIS Base Station	40 ⁰ 21'21"N	049 ⁰ 49' 87"E	40	Yalama AIS Base Station provides AIS data to LRIT National Center
Alat AIS Base Station	39 ⁰ 56'80"N	049 ⁰ 24' 72"E	45	Yalama AIS Base Station provides AIS data to LRIT National Center
Neftchala AIS Base Station			45	Yalama AIS Base Station provides AIS data to LRIT National Center
Astara AIS Base Station			330	Yalama AIS Base Station provides AIS data to LRIT National Center



Equipment and functions of Vessel Traffic service;

Electron PANEL



AIS

Automatic Identification System power equals to 12.5 Wts. and consists 2 R40 IEC 62320-1 equipment of production of SAAB company. AIS operated in ULTRA SHORT WAVES and has opportunity to identify ships provided by analogical system in 30 nautical miles.

Applying the modern technology the ships depending on identification types in radar screen or in other monitors displays: tankers-red, passenger ship, ferry-blue, dry cargo ship-green, tugs-orange and other ships and objects-dark triangle.

Information received from AIS in Electron Board displayed on electron chart as information collection. Data are directly available online and archived for 6 years

Function and equipment of Global Marine Distress Safety System

Radiostation Sailor RT-4801 with a power 25 W is used to create radiocommunication with vessels. In order to expand radiocommunication in Cilov island and in the National Center.

Function and equipment of Long Range Identification and Tracking System

The National Center has continuous communication with the National Centers of other countries. The System of stations Sailor 500/250 Fleet Broadband satellite communication and INMARSAT-C merge the recent progresses of the marine equipment. With the help of those stations it is possible to determine the location of all vessels flying flag of Azerbaijan Republic.

Video Camera Control

Video camera equipment of American firm PELCO. It carries out the clock round visual observation to 360° 5 miles distance. If view is well, observation distance reaches to 10 mile.

Meteo Station

Equipment of meteorological station VAISALA WXT520, displays direction, speed of the wind, temperature, dampness of the air atmosphere pressure and rainfall. Measures (the) speed of the wind 250 m/s.

With purpose of carrying out the requirements of International Convention for the Safety of Life at Sea adopted by IMO as a shore state it is necessary to create AIS and UGD/VHF GMDSS area A1 the base stations along the shore.

