



# National AIS network in Ukraine

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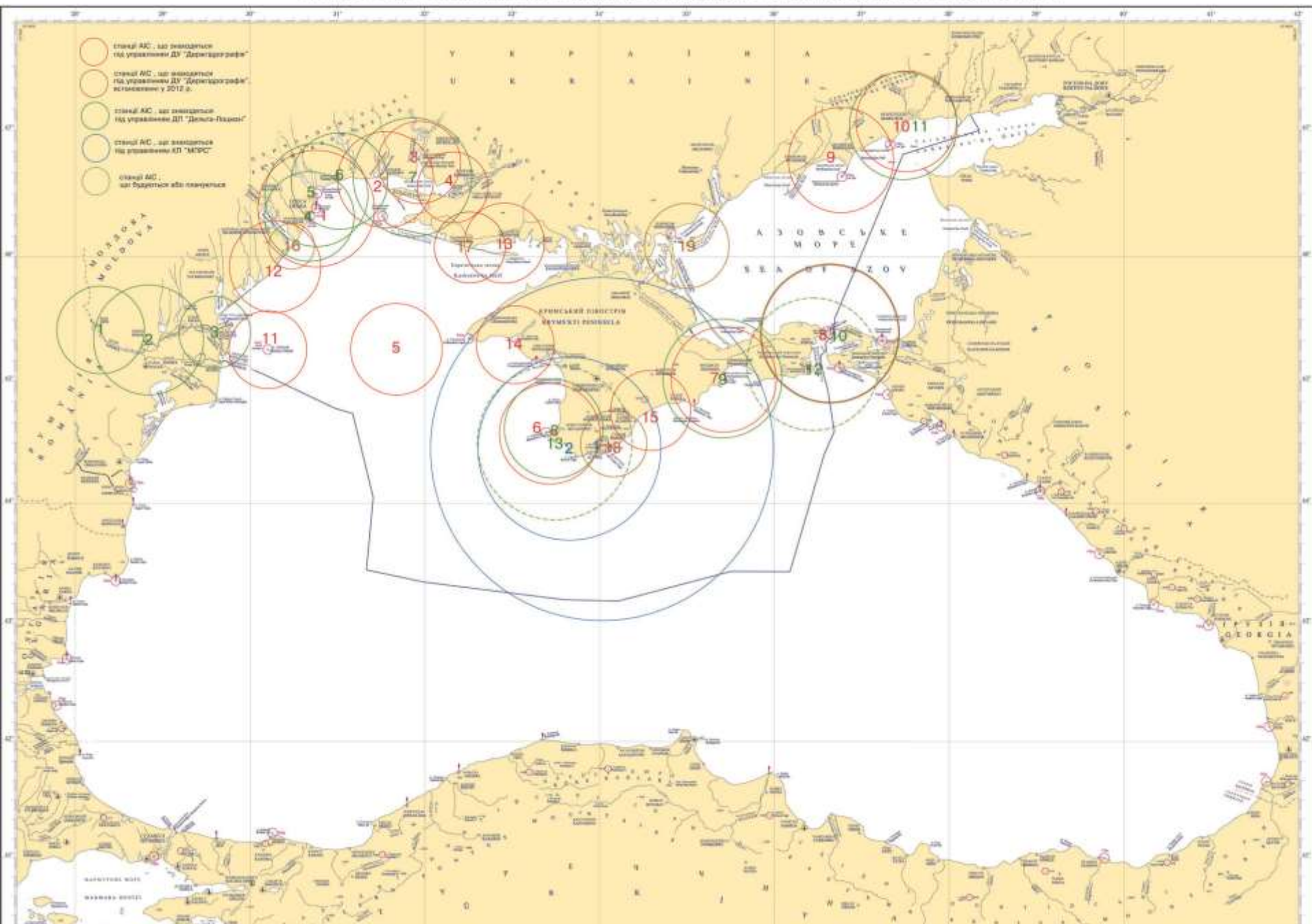
STATE HYDROGRAPHIC SERVICE OF UKRAINE

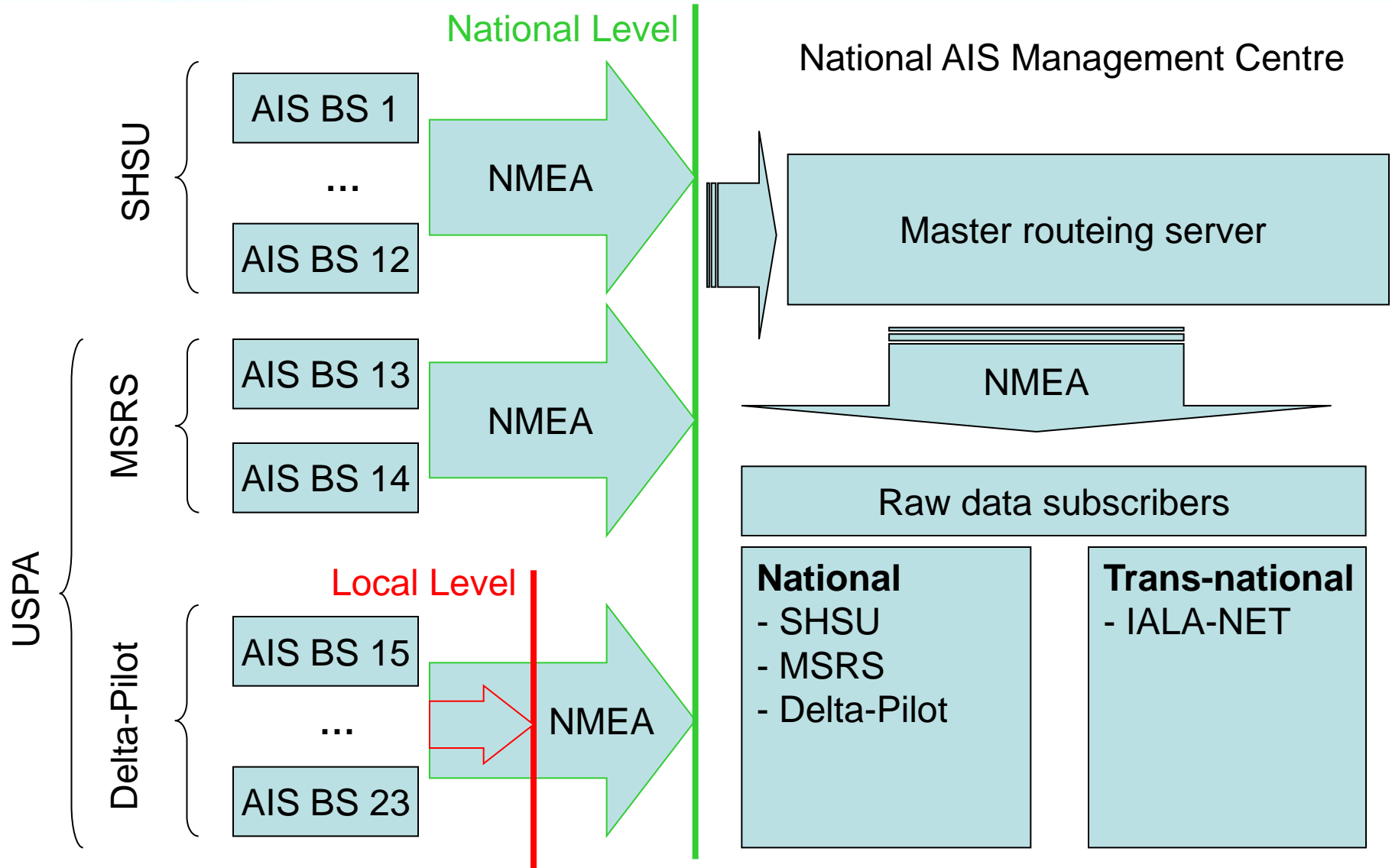


## Traffic monitoring and AIS information gathering

Traffic monitoring	State Enterprise “Ukrainian Sea Port Authority” Branch “Delta-pilot”	10 VTS
AIS data providers	State Hydrographic Service of Ukraine (SHSU)	12 AIS BS
	State Enterprise “Ukrainian Sea Port Authority” (USPA) Branch “Delta-pilot” Branch “Maritime Search and Rescue Service”	11 AIS BS
National AIS server provider	State Hydrographic Service of Ukraine (SHSU)	

# СХЕМА РОЗТАШУВАННЯ БАЗОВИХ СТАНЦІЙ АІС ДУ "ДЕРЖГІДРОГРАФІЯ", ДП "ДЕЛЬТА-ЛОЦМАН", КП "МПРС"







**Master routing server** - designed for routeing from various streams to raw data subscribers.

**Streaming format:** NMEA sentences with NMEA Tag Blocks (source, date and time stamp).

**Functions:**

- real-time routeing;
- area, source, NMEA sentences type filtering;
- lost-connection buffering.

Not intended for storage data, though can serve for storage each stream in a log file.



Each raw data subscriber has own storage and visualization tools with functionality according to their duties

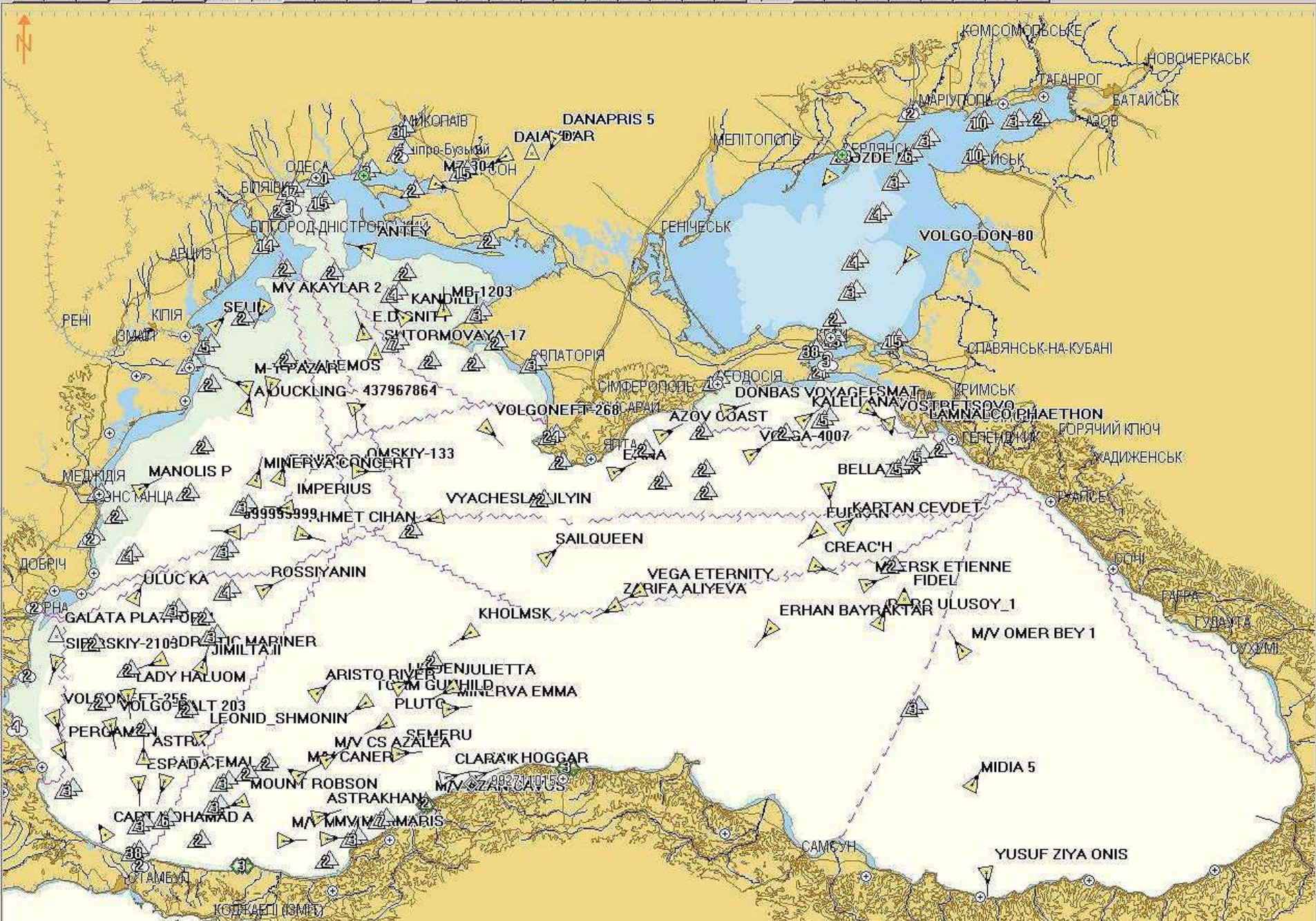
### **SHSU**

- data stored in the database in the decoded way;
- data available since 2010-2012;
- track visualization;
- history replay.

### **USPA**

- data stored in raw NMEA format;
- data directly available on line for a month and archived for a month.

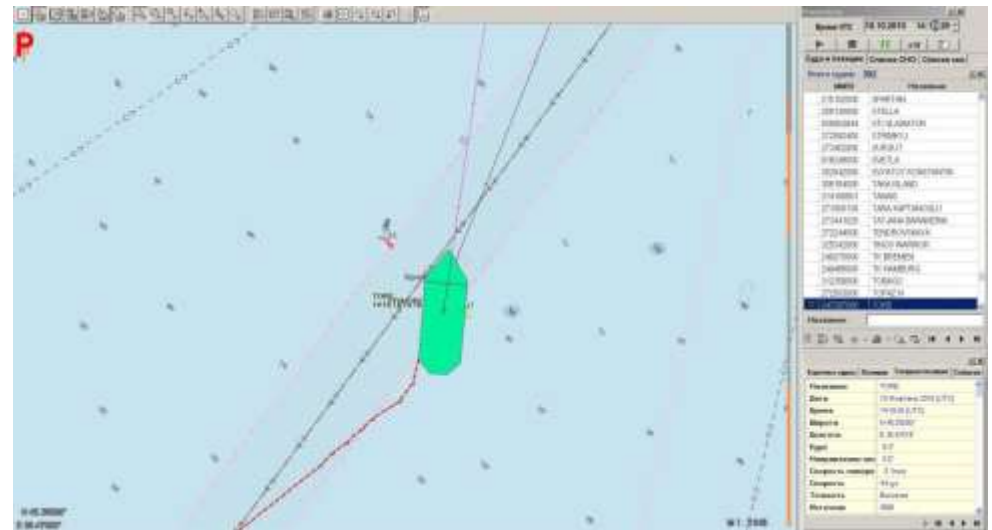








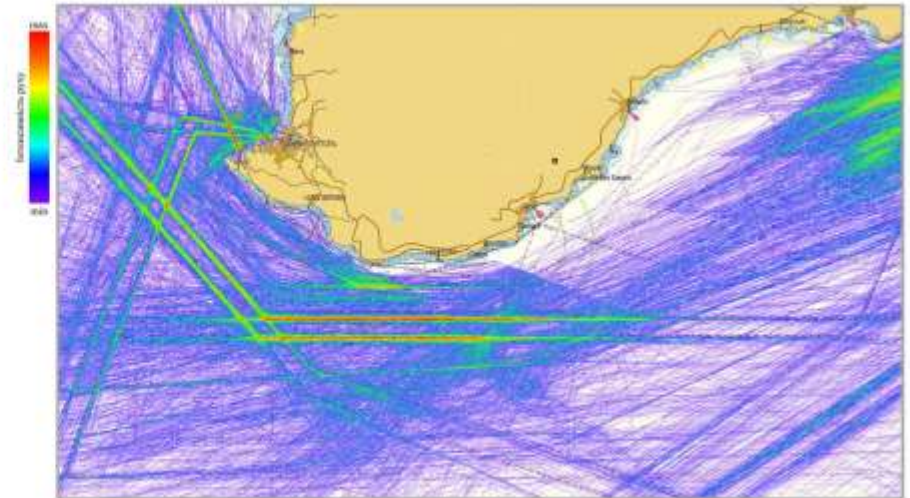
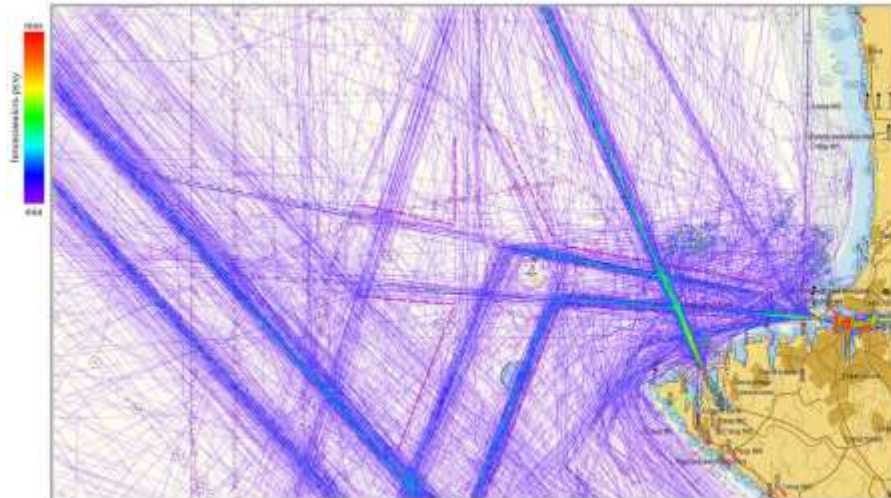
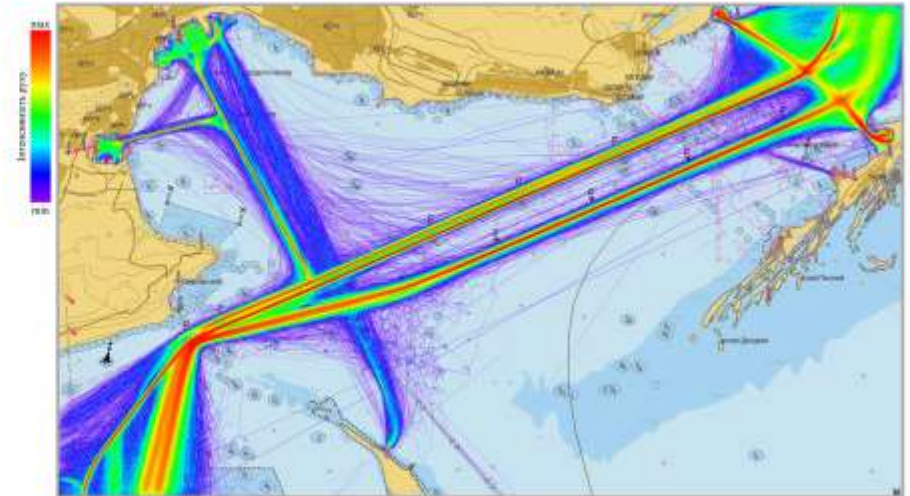
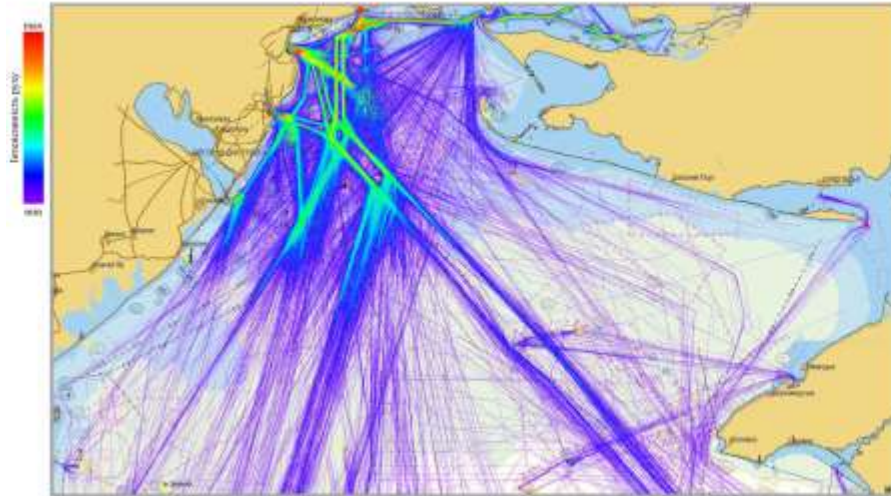
## Detection of collision with a buoy







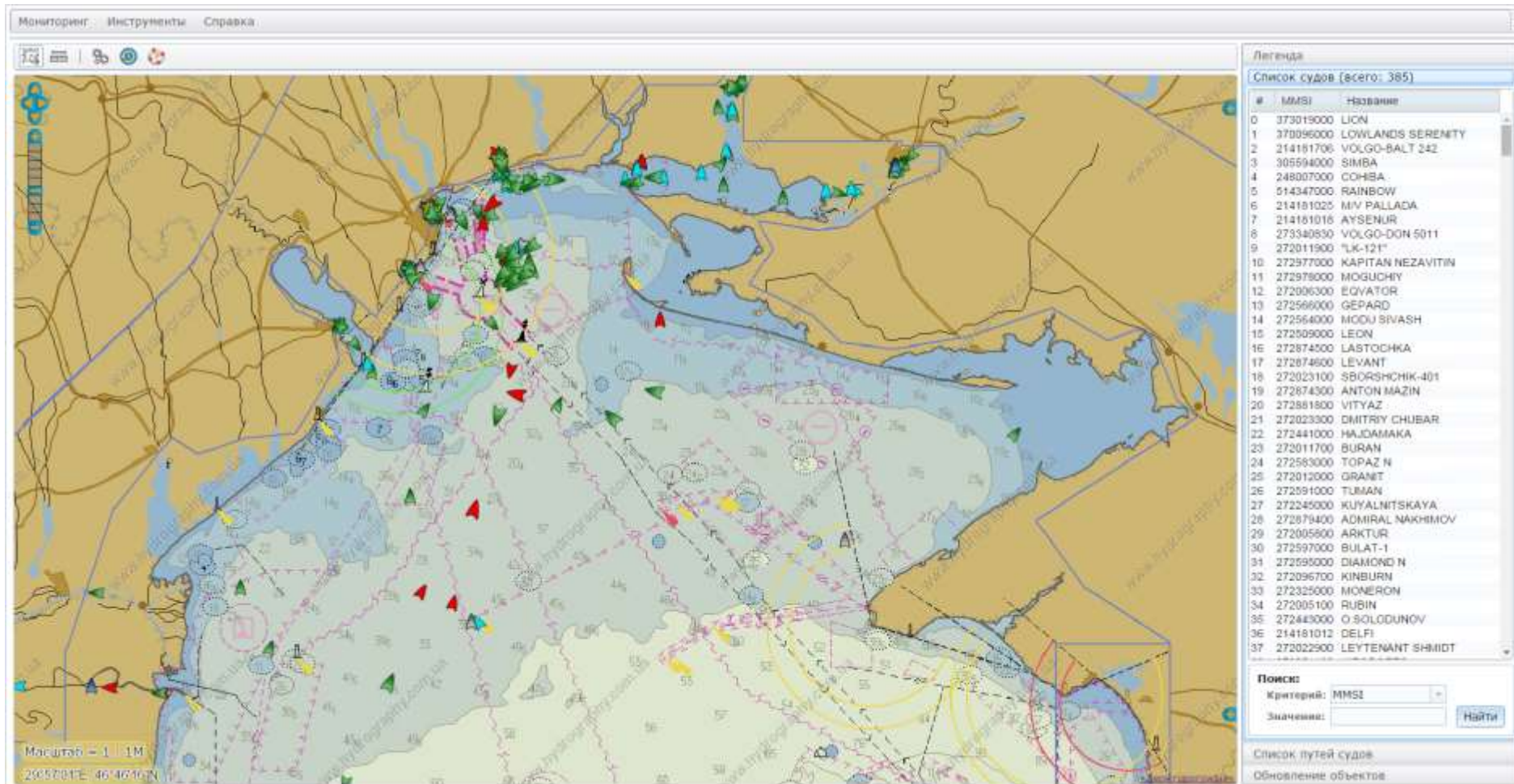
## Analysis of traffic intensity and routeings







## Web interface for non raw data subscribers





# The Ukraine–European Union Association Agreement

## Obligations:

### SafeSeaNet

#### **Directive 2002/59/EC**

establishing a Community vessel traffic monitoring and information system and repealing Council Directive 93/75/EEC

### National Single Window

#### **Directive 2010/65/EC**

on reporting formalities for ships arriving in and/or departing from ports of the Member States and repealing Directive 2002/6/EC





There are no extra requirements for AIS installation today in Ukraine





Ministry of Infrastructure of Ukraine



Thank you for your attention!