

Georgian Maritime Search & Rescue and Pollution Incidents Response Organization

Introduction

SAR-OPRC organization structures

Introduction

- The Georgia is situated at the East coast of the Black Sea, the length of Georgian coasts from South to North is about 180 nautical miles.
- Vessels traffic in the short area between Batumi and Pot (distance by sea 32 n.m.) has significantly increased, in 2007 there were 3500 vessels calls at these ports, and about 500 from which are oil tankers of DWT 60 000 – 150 000 mt. Transporting crude oil from the Batumi, Supsa and Poti Ports reached about 14 000 000 mt.

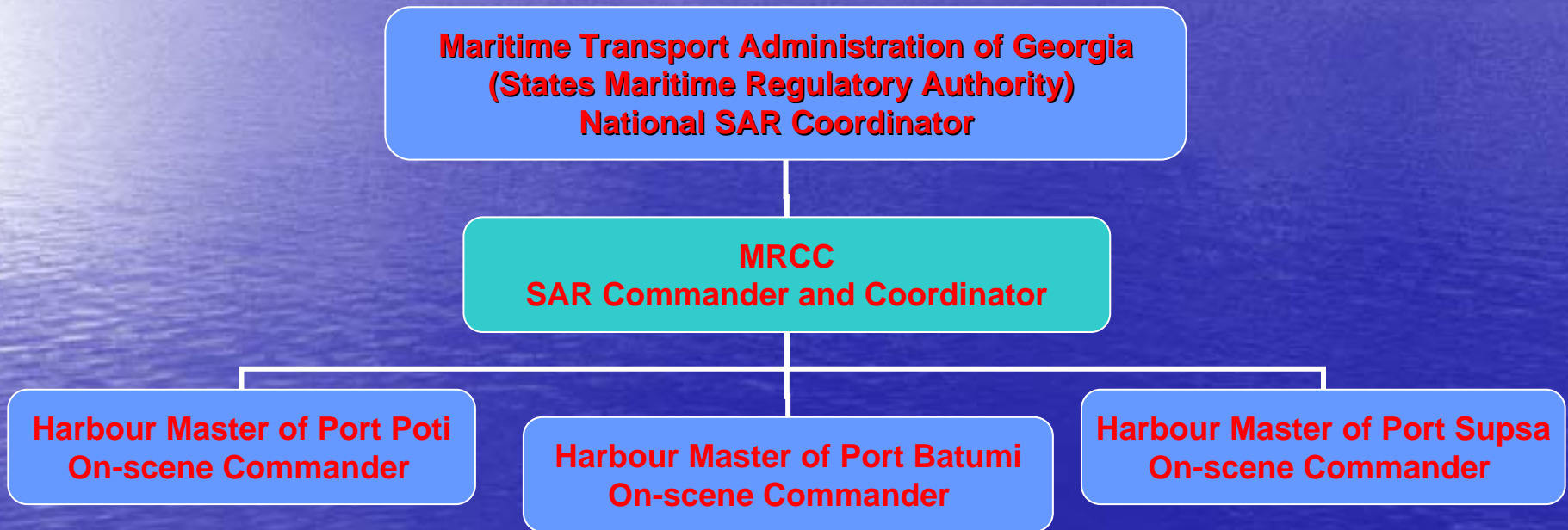
Introduction

- After gaining Independence in 1991, Georgia became a member of IMO 1993 and joint 22 Conventions (IMO)
- In the scope of implementation of the requirements of the following Conventions: SAR 79, OPRC 1990, Salvage, in 1994 the SAR Division was established in the structures of Maritime Department.
- In 1997 Georgian Parliament adopted Maritime Code of Georgia, and Maritime Transport Administration of Georgia started its work.

Introduction

- State Maritime Rescue Coordination Centre was established in 1997 at the basis of the SAR division of ex-Maritime Department
- On 29 of September 2000 by initiative of Maritime Transport Administration, the Parliament of Georgia adopted the Law on Maritime Rescue Service, No. 528-1c

SAR-OPRC organization structures



SAR-OPRC organization structures

- **Maritime Transport Administration** is an governmental maritime transport regulatory authority bearing the governmental responsibility for dealing with search and rescue, and marine pollution incidents

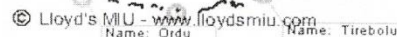
SAR-OPRS organization structures

- **State Maritime Rescue Co-ordination Center** is the organization, which carries out prompt and effective search and rescue operations and deals with pollution incidents in the whole area of Georgian responsibility
- **Harbour Master** acts as On-scene Commander in Port responsibility area (12 n.m.)

AIS Monitoring

1. Two independent AIS system :
2. first- own AIS system, antenna installed on the our office in Batumi, cover – 25 N.M. Sub centre –installed in port Kulevi, covers - 25 N.M.(antenna H- 45 m)
3. second –Lloyds MIU system, covers – area from Trabzon up to Sochi (antenna H-380 m.)
4. Lloyds MIU system we are using not only for Black Sea area, but also for Georgia Flag Vessel in World wide

19.03.10
K.F.



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Requirements

- Each country pays great attention to protection of human lives and the need of participating in the rendering the maritime search and rescue (SAR) services to person in distress and pollution incidents prevention
- For carrying out the above mentioned functions it's necessary to have sufficient technical recourses.

Requirement

- For carrying out the functions of maritime search & rescue (SAR) services and pollution incidents prevention, the Maritime Transport Administration of Georgia has developed 2 projects:
- **Project No.1**
SAR boats, pollution combating salvage tugs and helicopter
- **Project No.2**
Oil Spills Combating Equipment (completed in 2008 года)

Project No. 1

SAR boats, pollution combating salvage tugs and helicopters

- **The purpose** of the Project is equipment of State MRCC Georgia with high-speed, all-weather, self-recovering, unsinkable Search and Rescue Boats (“Norsafe Munin” –(10.0 m) type), Pollution Combating Salvage Tugs and SAR helicopter
- **Beneficiaries:** Maritime Transport Administration of Georgia and MRCC
- **Main Components:** Two high-speed, all-weather, self-recovering, unsinkable Search and Rescue Boats (“Norsafe Munin” –(10.0 m) type), one Pollution Combating Salvage Tug and one SAR helicopter

Project No. 1

SAR boats and pollution combating salvage tugs

- **Budget.**

The project budget as per the calculations of Administration is 270 000 Euro per each boat, and the price of the tug is about 5 000 000 USD, helicopter-2000 000 usd

Total: 7 500 000 USD.

- **Duration of the project:** The assumed duration of the project is delivery of vessels/helicopter within 6 months from the date of contract signing.

Project No. 1

SAR boats and pollution combating salvage tugs

- **Conclusions:** Realization of the project will let enhance the safety of navigation, including high tonnage tankers, and significantly decrease the risk of human death and ships loss at sea. It will also enhance safety of crude oil transportation through the territory of Georgia.
- **Conditionality:** The necessity of the project realization is stipulated for by the obligations of Georgia to comply with the requirements of SOLAS SAR, SALVAGE, MARPOL, OPRC.



GENERAL

Builder DAMEN SHIPYARDS GDYNIA
Commissione 1996

Classification Det Norske VERITAS to
class:

+A1 Tug SF, Fire Fighter I, OILREC, ICE
,1A, EO

Polish Register of Shipping to class: 1KML1
A16 m hol

PERFORMANCES

Bollard Pull 74 tons Towing Winch Pull 50
tons Speed 13 knots

DIMENSIONS

Length o.a. 53.37 m Length B.P. 48.00 m
Breadth Moulded 13.60 m Depth
Moulded 6.02 m Draught (max.) 4.60 m
Gross Tonnage 1347 tons DWT 930 tons

CAPACITIES

Deck Cargo 350 tons Deck Load 5 t/m 2 Total Cargo Deck Area 175.0m 2 Fuel 210. 0m 3 Potable Water 93. 4m 3 Ballast Water 606. 0m 3 Recovered Oil 512. 0m 3 Fi-Fi Foam 18.7m 3 Containerised Equipment 3 x 20'containers Salvage Hold 112.6m 3 Oil Recovery Equip. Hold 166. 8m 3

DISCHARGE RATES

Fuel Oil 100 m 3/h Potable Water 100 m 3/h Recovered Oil 130 m 3/h

MACHINERY

Main Engines 2 x DEUTZ SBV 12M 628, M.E. Power 2 x 1920 kW Propellers Twin Screw C.P.P. in nozzles Thrusters 1 x Bow 350 kW Generators 2 x Shaft 600 kVA, 2 x Diesel 280 kVA, 1 x Diesel 135 kVA Control Lips Joystick

DECK EQUIPMENT

Towing Winch hydraulically driven, 850 m 54 mm steel wire, max. pull 50 tons, break holding force 120 tons Tugger Winch hydraulically driven, 150 m 18 steel wire, nom. pull 8 tons Windlass electrically driven, nom. pull 12 tons Capstans 2 x hydraulically driven, nom. pull 4 tons

Deck Cranes 1 x 125 TM, telescopic boom, 360 rotation with constant tensioning device 1 x 20 TM, single boom, 360 rotation Anchors 3 x 1440 kg H.H.P. (one spare) Chain 2 x 412 m, stud-link 38 mm, U2 quality Diving Equipment breathing air system, 2 sets of equipment Salvage and Towage Equipment

OIL RECOVERY SYSTEM

Oil Collecting System brush type equipment - LAMOR Oil Spill Cleaning Capacity 150,000 m 2/h, 2 kn speed Oil Recovery Capacity 2 x max. 140 m 3/h Oil Recovery Tanks 4 tanks, total capacity 512 m 3 Oil Booms EXPANDI 4300, 800 m Auxiliary Boat for Oil Boom Handling 1 piece Oil/ Water Separator 5 m 3/h Recovery Tanks Heating System

FIRE FIGHTING SYSTEM - Fifi I class notation

Fire Fighting Pumps 2 x 1500 m 3/h, 14 bar Remote Controlled Water Monitors 2 x 1200 m 3/h Fire Fighting Pump 1 x 250 m 3/h, 13.8 bar Water/ Foam Monitor 1 x 250 m 3/h Foam System capacity 200 ltrs/min. Pre-wetting System 2 x 300 m 3/h

LIFE SAVING EQUIPMENT

Lifeboat 1 x 15 persons (totally enclosed boat) Rescue/Lifeboat 1 x 6 / 1 x 15 persons (totally enclosed boat) RIB Rescue Boat 1 x 6 persons Liferrafts 2 x 20 persons Life Buoys, Jackets, Survival Suits, Medical Equipment

NAUTICAL & COMMUNICATION EQUIPMENT

Arpa Radar 1 x Kelvin Hughes Nucleus 6000 Navigation Radar 1 x Kelvin Hughes Nucleus 5000

GPS, SBB Radio Telephone, VHF Radio Telephones, Radio Telex, Watch Keeping Receiver, EPIRB, Radar Transponders, Navtex, Portable VHF, Numersat Stand ard C, Magnetic Compass, Gyro Compass, Search lights, Echounder, Speedlog, Anemometer, Facsimile Receiver



Technical Data:

Overall dimensions L x B x H:

Maximum capacity:

Crew:

Boat weight with equipment and fuel

Height from underside keel to lifting point:

Cruising range (approx.)

Fuel capacity

Engine, standard

Options:

Propulsion

Speed with crew of 3 persons

10,0 x 3,51 x3,50 (m)

15-24 persons

3 persons

5.600 kgs

3,41 m

130 Nautical miles

300 litres

Twin 230 hp diesel inboard engines

Twin Diesel engines up to 420 hp

Twin waterjet

30 knots



Mission Brief

Sikorsky's HH-60J Jayhawk helicopter provide to perform its wide variety of missions.

Missions include:

Search and Rescue (SAR)
Offshore law enforcement
Environmental protection

Project No. 2

Oil Spills Combating Equipment (completed 05.2008)

- **The purpose** of the Project is equipment of State MCC Georgia with oil spills combating equipment
- **Main components:** The set of equipment for collection of oil, localization of spilt oil, skimmers, floating booms, pumps, immersion pumps and other equipment.
- **Budget:** The project budget as per the calculations of Administration is 450 000 USD

Project No. 2

Oil Spills Combating Equipment

- **Duration of the project:** The assumed duration of the project is delivery of the sets within 4 months from the date of contract signing and their installation within about 1 month
- **Conclusions:** Realization of the project will let enhance the safety of navigation, including high tonnage tankers, and significantly decrease the risk of environmental catastrophes similar to the catastrophe of m/t PRESTIGE at the coast of Spain.

Project No. 2

Oil Spills Combating Equipment

- **Conditionality:** The necessity of the project realization is stipulated for by the obligations of Georgia to comply with the requirements of SOLAS SAR, SALVAGE, MARPOL, OPRC and task of prevention of vessels collisions with the purpose of avoiding human death, ships and cargo loss at sea and maritime pollution with oil.

New equipment for MRCC

Storage place



Equipment



New equipment for MRCC

Equipment

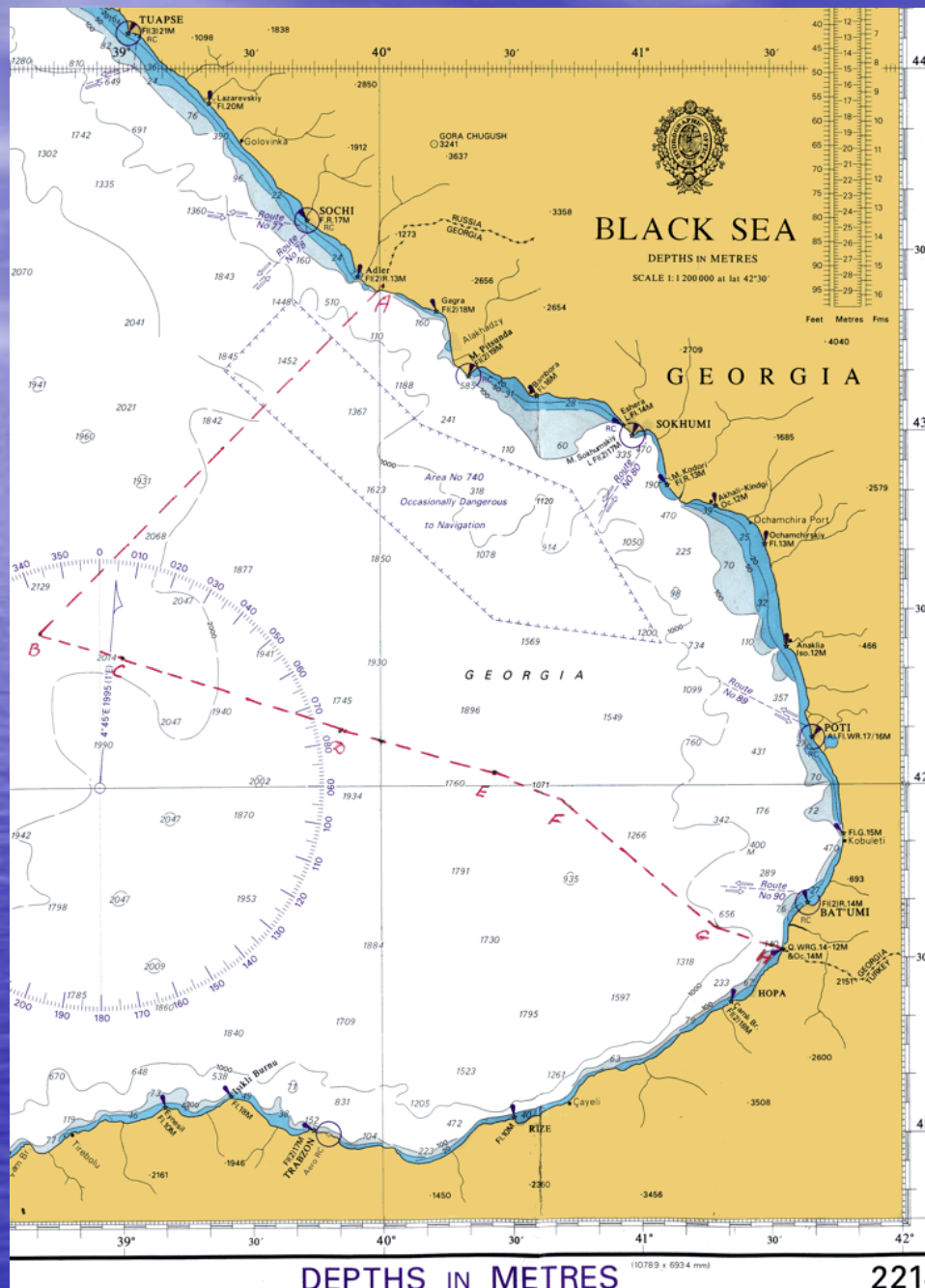


Equipment



Equipment





DEPTHS IN METRES

(10789 x 6934 mm)

2214