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.

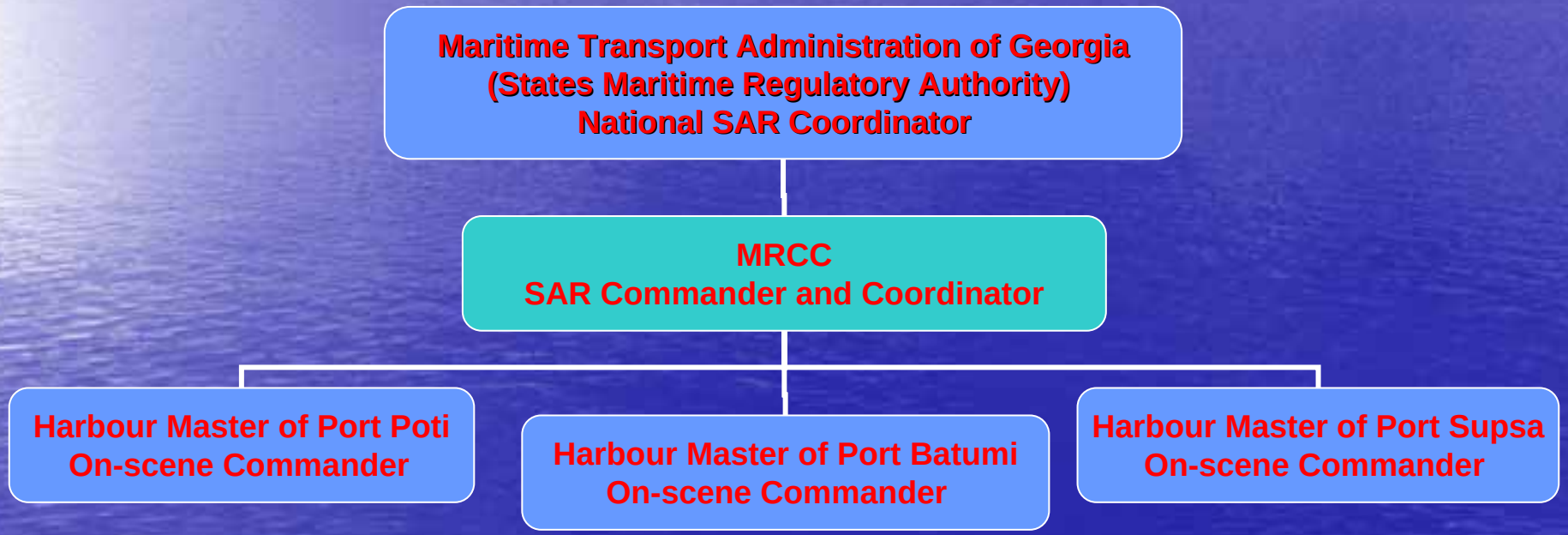
Introduction

- 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

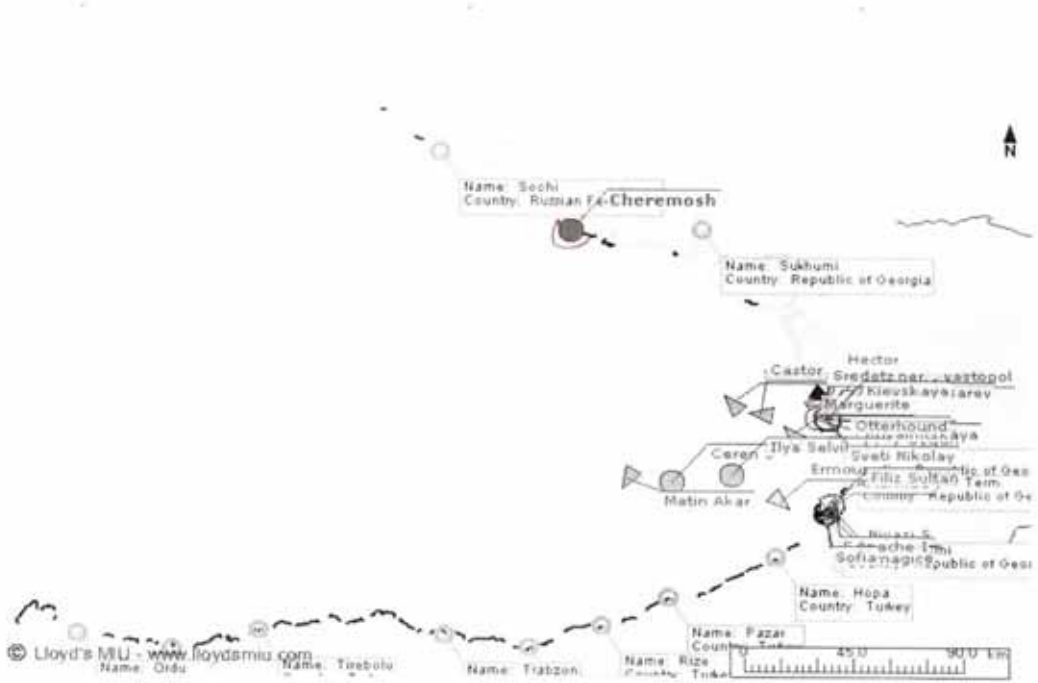
SAR-OPRS organization structures

- 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

Data from AIS Georgia



Name:Cheremosh, Length:54.0Beam:9.9, Status:Moored, Flag:UKR, MMSI:272384000
Draft:Heading:0Destination:Gross:657IMO:7436363Speed:0Rotation:0ETA:Class:Unknown () Call Sign:UUWP
Course:340, Reported:18 Mar 2008 23:06:20, Ais Type:, Position:40-22-45E : 43-9-42N, Type:FTR

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 Commissione1996

ClassificationDet Norske VERITAS to class:
+A1 Tug SF, Fire Fighter I, OILREC, ICE ,1A, EO

Polish Register of Shipping to class:lKML1 A16 rn hol

PERFORMANCES

Bollard Pull74 tons Towing Winch Pull50 tons Speed 13 knots

DIMENSIONS

Length o.a.53.37 m Length B.P.48.00 m Breadth Moulded 13.60 m Depth Moulded6.02 m Draught (max.)4.60 m Gross Tonnage1347 tons DWT 930 tons

CAPACITIES

Deck Cargo 350 tons Deck Load 5 t/m 2 Total Cargo Deck Area175.0m 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. 8m3

DISCHARGE RATES

Fuel Oil 100 m 3/h Potable Water 100 m3/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 nozzlesThrusters1 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 Winchhydraulically driven, 850 m 54 mm steel wire, max. pull 50 tons, break holding force 120 tons Tugger Winchhydraulically driven, 150 m 18 steel wire, nom. pull 8 tons Windlasselectrically driven, nom. pull 12 tons Capstans2 x hydraulically driven, nom. pull 4 tons

Deck Cranes1 x 125 TM, telescopic boom, 360 rotation with constant tensioning device 1 x 20 TM, single boom, 360 rotationAnchors3 x 1440 kg H.H.P. (one spare)Chain2 x 412 m, stud-link 38 mm, U2 quality Diving Equipmentbreathing air system, 2 sets of equipmentSalvage and Towage Equipment

OIL RECOVERY SYSTEM

Oil Collecting Systembrush type equipment - LAMOROil Spill Cleaning Capacity 150,000 m2/h, 2 kn speed Oil Recovery Capacity2 x max. 140 m3/h Oil Recovery Tanks4 tanks, total capacity 512 m3Oil Booms EXPANDI 4300, 800 m Auxiliary Boat for Oil Boom Handling 1 piece Oil/ Water Separator 5 m3/h Recovery Tanks Heating System

FIRE FIGHTING SYSTEM - Fifi I class notation

Fire Fighting Pumps2 x 1500 m3/h, 14 bar Remote Controlled Water Monitors2 x 1200 m3/hFire Fighting Pump1 x 250 m3/h, 13.8 bar Water/ Foam Monitor1 x 250 m3/h Foam Systemcapacity 200 ltrs/min. Pre-wetting System2 x 300 m3/h

LIFE SAVING EQUIPMENT

Lifeboat1 x 15 persons (totally enclosed boat) Rescue/Lifeboat1 x 6 / 1 x 15 persons (totally enclosed boat)RIB Rescue Boat1 x 6 personsLiferafts2 x 20 persons Life Buoys, Jackets, Survival Suits, Medical Equipment

NAUTICAL & COMMUNICATION EQUIPMENT

Arpa Radar 1 x Kelvin Hughes Nucleus 6000 Navigation Radar1 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, Echosounder, Speedlog, Anemometer, Facsimile Receiver





NORSAFE MUNIN 10.0 M DAUGTHER CRAFT

Technical Data:	
Overall dimensions L x B x H:	10,0 x 3,51 x3,50 (m)
Maximum capacity:	15-24 persons
Crew:	3 persons
Boat weight with equipment and fuel	5.600 kgs
Height from underside keel to lifting point:	3,41 m
Cruising range (approx.)	130 Nautical miles
Fuel capacity	300 litres
Engine, standard	Twin 230 hp diesel inboard engines
Options:	Twin Diesel engines up to 420 hp
Propulsion	Twin waterjet
Speed with crew of 3 persons	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 PRESTIJE 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




BLACK SEA
DEPTHS IN METRES
SCALE 1:1 200 000 at lat 42°30'
GEORGIA
RUSSIA
GEORGIA
TUAPSE
SOCHI
Adler
Gagra
SOKHUMI
Ochamchira Port
Anaklia
POTI
Kobuleti
BAT'UMI
HOPA
RIZE
Çayeli
Area No 740
Occasionally Dangerous
to Navigation
GEORGIA
TURKEY
DEPTHS IN METRES
(10789 x 6934 mm)
2214