

The Romanian Oil Pollution Response System

**EMSA – Pollution
Response Workshop
for Bulgaria and
Romania**

Lisbon, 28 February 2007



GENERAL INFORMATION

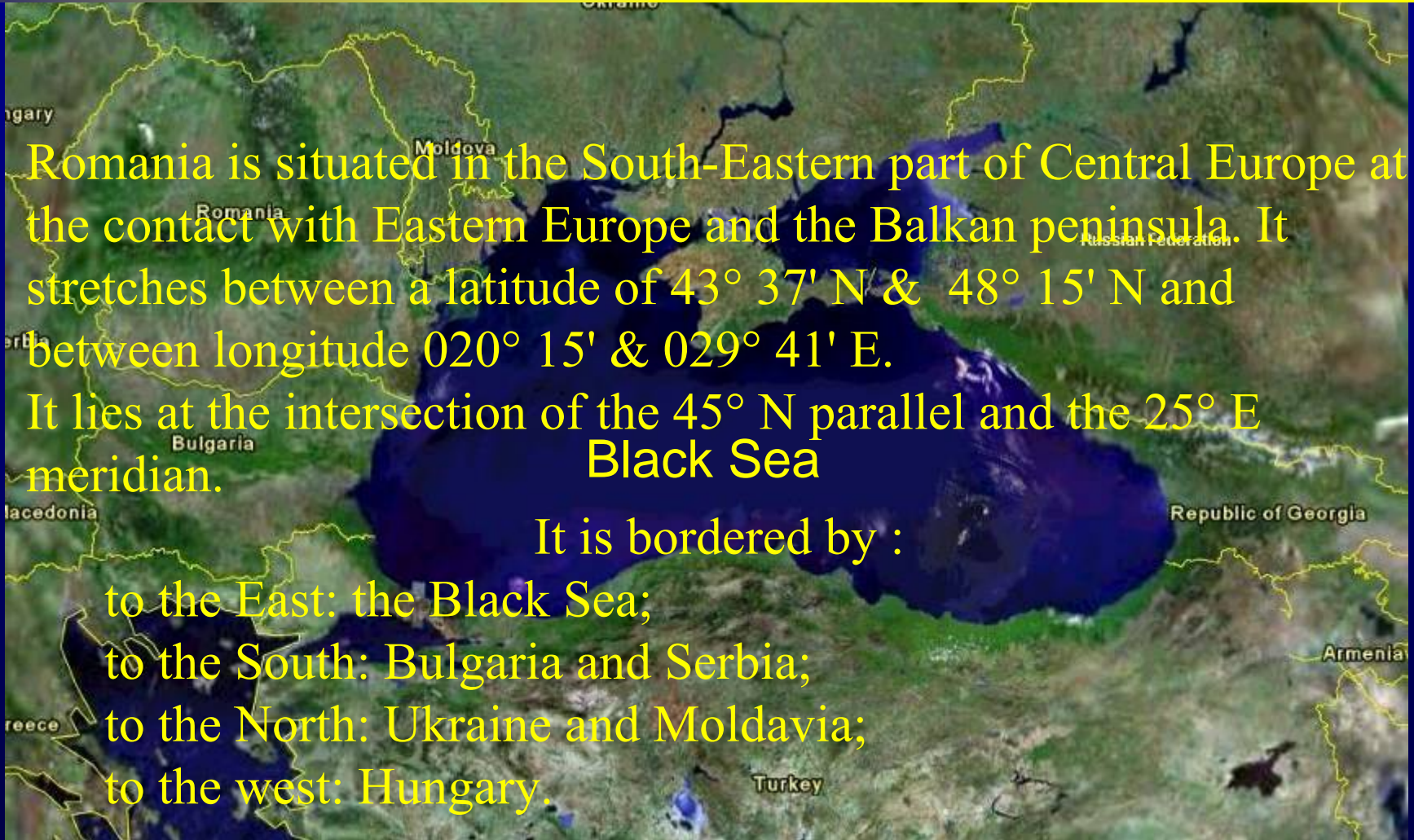
Romania is situated in the South-Eastern part of Central Europe at the contact with Eastern Europe and the Balkan peninsula. It stretches between a latitude of $43^{\circ} 37' \text{ N}$ & $48^{\circ} 15' \text{ N}$ and between longitude $020^{\circ} 15' \text{ E}$ & $029^{\circ} 41' \text{ E}$.

It lies at the intersection of the 45° N parallel and the 25° E meridian.

Black Sea

It is bordered by :

- to the East: the Black Sea;
- to the South: Bulgaria and Serbia;
- to the North: Ukraine and Moldavia;
- to the west: Hungary.



GENERAL INFORMATION

- length of the Romanian seaside - 244 km
- length of Delta Danube - Black Sea interface - 65 km
- 4 maritime ports
- length of tourist beaches - 30 km
- average global traffic in maritime ports in 2006 - 57 mil. tons
- 5849 ships called the maritime ports in 2006
- fishing activity:
 - 485 fishing boats;
 - 19 trawlers.
- the ancient cities: Histria, Tomis, Callatis



Constanta

Danube - Black Sea Channel



The Romanian Coast line

Economic activity
(all year)

Chemical & hydrocarbon
(all year)

Economic activity and pollution risk
(all year)

Recreation and resorts
(all year)

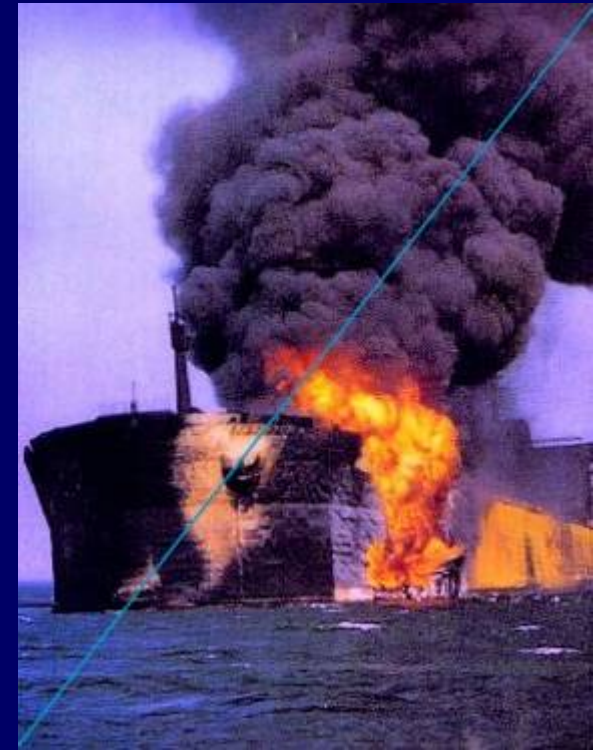
Economic activity
(all year)

Economic activity
(all year)

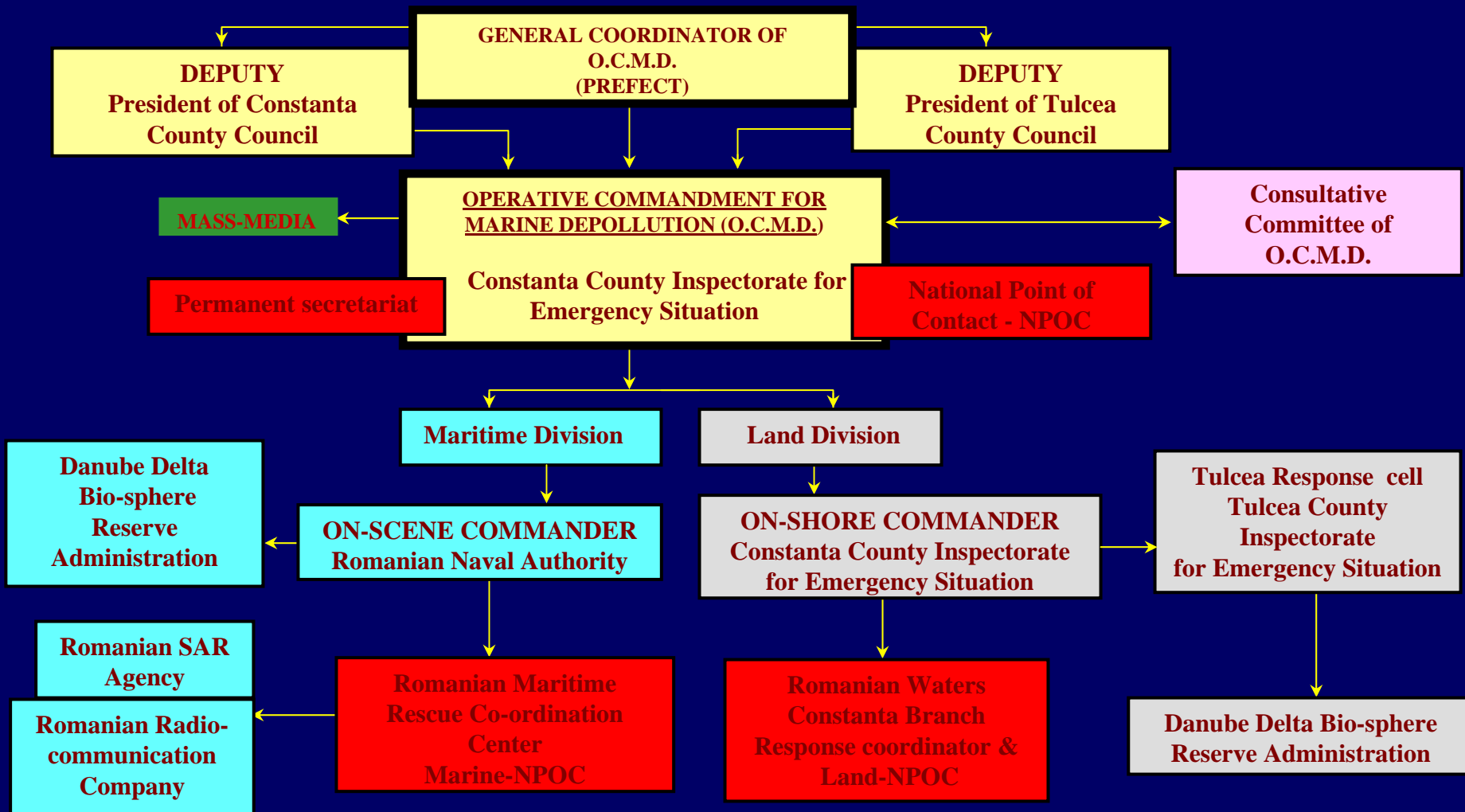
2 May

The 100,000 tons oil tanker Nassia, on fire near the Bosphorus on March 1994

- The accident released some 5,000 tons of oil to the Black Sea and posed on enormous security risk to the city of Istanbul.
- Every year about 50,000 tons of oil substances is discharged in the Black Sea through Danube river



ROMANIAN MARINE POLLUTION RESPONSE -ORGANIZATIONAL CHART-



OPERATIVE COMMANDMENT FOR MARINE DEPOLLUTION (O.C.D.M.)

- a structure for planning and monitoring of actions for response in case of marine pollution with hydrocarbons;
- subordinated to the Prefect of Constanta County;

MAIN RESPONSABILITIES OF O.C.D.M

- receive reports concerning the noticed:
 - incidents which result or could result in a marine pollution;
 - pollution in the Romanian waters or in the waters of neighbouring countries, within the area of regional cooperation.
- receive reports concerning incidents of marine pollution with consequences on shore;
- verify the source of information;
- evaluate the received reports and the reported discharge, if applicable;
- initiate the response operations, depending on the situation.

RESPONSABILITIES OF PERMANENT SECRETARIAT

- alert the parties involved in the plan;
- gather reports from the divisions;
- provide communication between the parties involved;
- obtain information regarding the characteristics of pollutant materials;
- supplies with maps and charts of the areas;
- proposes the areas for temporary storage of pollutant materials;
- evaluates methods of storage to be used;

MAIN STRUCTURE OF O.C.D.M

Division for maritime operations

- Romanian Naval Authority;
- Romanian SAR Agency (ARSVOM);
- National Company for Naval Radio-communications;
- County Inspectorate for Border Police
- Navy Headquarters;
- University Hospital Port Constanta;
- Department for Public Health of
County Constanta;
- Dobrogea-Littoral Waters Directorate
- Danube Delta Biosphere
Reserve Administration ;
- National Institute for Marine Research
and Development;
- Inspectorates for Environmental
Protection Constanta and Tulcea;
- Environmental Guard Constanta
and Tulcea;
- other companies, including shipyards ;
- NGO, volunteers.



MAIN STRUCTURE OF O.C.D.M

Division for land operations



- Constanta County Inspectorate for Emergency Situations;
- Dobrogea Littoral - Waters Directorate
- Romanian Naval Authority – harbour area;
- Inspectorates for Environmental Protection Constanta and Tulcea;
- Environmental Guard Constanta and Tulcea ;
- Depollution companies;
- County Inspectorate for Border Police
- Department for Public Health of County Constanta;
- Prefecture, municipalities;
- National Institute of Meteorology and Hydrology;
- National Institute for Marine Research and Development;
- NGO's;
- Other companies.

ROMANIAN NAVAL AUTHORITY

Within Romanian Naval Authority has been organized a new directorate - *Romanian Maritime Co-ordination Center*, which consist of two departments :

- SAR & OPRC Department (MRCC)
- VTS Department

MARITIME CO-ORDINATION CENTER

Romanian Maritime Co-ordination Center, as the responsible directorate for SAR – OPRC and VTS activities co-ordination , acts in accordance with the international and regional requirements as follows:

● **international**

- International Convention on the Prevention of Pollution from Ships - MARPOL73/78;
- OPRC'90 - Oil Pollution Response and Cooperation Convention;
- CLC'92, (Civil Liability Convention);
- Decision no 2850/2000/EC – Setting up a Community framework for cooperation in the field of accidental or deliberate marine pollution.

● **regional**

- Bucharest Convention 1992 – Convention on the protection of the Black Sea against pollution;
- Ministerial Declaration on the Protection of the Black Sea - Odessa, 1993
- Strategic Action Plan for the Rehabilitation and Protection of the Black Sea, Istanbul 1996 ;
- Black Sea Contingency Plan 2004

MARITIME CO-ORDINATION CENTER

The Romanian Maritime Co-ordination Center main duties:

- Co-ordination of search and rescue activities within its area of responsibility;
- Prevention, co-ordination of marine pollution response;
- Vessel traffic service;
- Co-operation with competent authorities for any illegal activities at sea, that can affect safety and security of the State.

Some of the Co-ordination Center personnel are initiated as SAR Mission Co-ordinator and Supervisors for response to Oil Spill and OPRC On Scene Commander by International Maritime Organization and Swedish Maritime Administration.

SAR – OPRC DEPARTEMENT (MRCC)

- Constanta MRCC is the maritime focal point of contact according with the National Contingency Plan, the director of Maritime Co-ordination Center being the Co-ordinator of Division for Marine Operation.
- To mitigate the oil spill at sea, the preferred response option is to recovery it with the dedicated vessels and special equipments using mechanical device as :
 - 4 skimmer ships – 20 cbm each;
 - 3 storage tanks of 970/700/100 cbm belonging to Constanta Port Admin.
 - one specialized depoll boat belonging to National Institute for Marine Research and Development ,
 - other private companies.



FACILITIES BELONGS TO ROMANIAN NATIONAL SAR AGENCY

Product name	RO-BOOM-1500	C 600 curtain	RO-BOOM-1300	COURTAIN	Desmi Terminator	Desmi Termite
Description	Inflatable boom	Inflatable boom	Inflatable boom	Inflatable boom	Weir, oil recovery skimmer	Weir, oil recovery skimmer
Quantity	3300 meters RO-BOOM-1500 off-shore boom, height wave 3 m	1700 metres C 600, off-shore boom, height wave 5 m	2000 meters of RO-BOOM-1300, wave height 2.5 m	1000 metres, height wave 2 m	130 m3/hour 2 pcs.	20 m3/hour 5 pcs.
Normal location:	800 meters on tug HERCULES; 2500 metres - Constanta port- berth 78	15 Km from Constanta	2000 metres – Constanta port berth 78	1000 metres - Constanta port berth 78	2 pcs. Constanta port berth 78	4 pcs. Constanta port berth 78; 1 pc - on tug Hercules
Perssonel	4	4	4	4	2	2

The dedicated ships for pollution response :

- tug Hercules, tug boats Rubin, Cristal and Safir

International oil spill report requirements :

- MARPOL 73/78
 - art.8 – Reports on incidents involving harmful substances;
 - art.11 (MEPC/Circ.318, Part.1) – Annual Mandatory Report Incidental Spillages of Harmful Substances of 50 Tones or more;
 - art.12 – Ship's accidents (incidents) investigation;
 - Annex 7 – POLREP; • Black Sea Contingency Plan

National oil spill report requirements :

- Governmental Decision no.893/2006 – National Contingency Plan
- Ministry of Transports, Constructions and Tourism Order:
 - no. 217/2004 – Regulation for organization and functioning of the marine oil spill response Coordination Group;
 - no. 1730/2001 – Reports on incidents involving seagoing vessels, which transport harmful substances.

Pollution reporting system (POLREP) as per Black Sea Contingency Plan annex 7

- Pollution Report (POLREP) means the report by which the Lead State informs other relevant parties on the situation.
 - Part I POLWARN
 - Part II POLINF
 - Part III POLFAC

POLREP

Introductory Part			
Maritime Rescue Co-ordination Centre – Address Constanta Address: Constanta Port, Gate no.1 Constanta Romania Telephone: + 40 241 615 949; + 40 241 601 232 Telefax: + 40 241 606 065 ; + 40 241 601 223 E-mail: mrcc@rna.ro		From:	MRCC Romania
		To:	MRCC Bulgaria, MRCC Georgia, MRCC Russia, MRCC Turkey, DKSR Ukraine
		Cc:	ERAC Varna
Date Time Group		250920zJAN	
Identification		POLREP BLACK SEA	
Serial Number		BG/SEA KING/1	
Part I POLWARN			
1	Date and time	1	250840zJAN
2	Position	2	42 deg 25 min N, 028 deg 15 min E
3	Incident	3	Collision between Liberian dry cargo vessel "CANOPUS" and Panamas oil tanker "SEA KING".
4	Outflow	4	10 000 tonnes crude oil
5	Acknowledge	5	Acknowledge

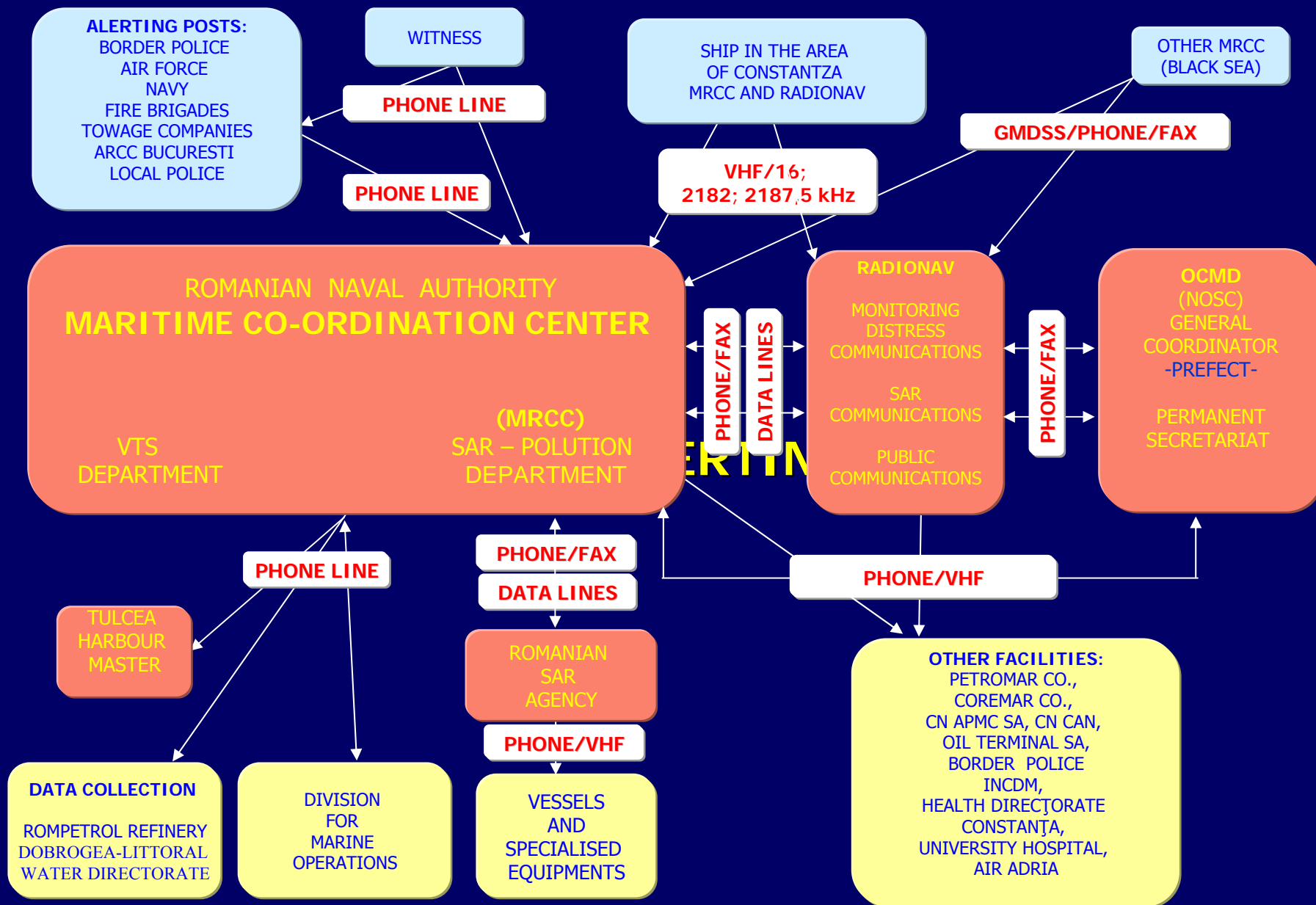
Introductory Part			
Maritime Rescue Co-ordination Centre – Constanta Address Constanta Port, Gate no.1 Constanta Romania Telephone: + 40 241 615 949; + 40 241 601 232 Telefax: + 40 241 606 065 ; + 40 241 601 223 E-mail: mrcc@rna.ro		From:	MRCC Romania
		To:	MRCC Bulgaria, MRCC Georgia, MRCC Russia, MRCC Turkey, DKSR Ukraine
Date Time Group		250920zJAN	
Identification		POLREP BLACK SEA	
Serial Number		BG/SEA KING/2	
Part II POLINF			
40	Date and time	40	251020zJAN
41	Position	41	42 deg 23 min N, 028 deg 13 min E
42	Characteristics of pollution	42	Russian export blend crude oil (REBCO)
43	Source and cause of pollution	43	Source: "SEA KING" – oil tanker, flag Panama, GT 23566, LOA 201.50, IMO No. 8512637, Call sign JQ6P. Cause: cargo tank leaking.
44	Wind direction and speed	44	N, 10 m/sec
45	Current or tide	45	S, 0.2 knots
46	Sea state and visibility	46	Wave height 1.2 m, visibility 10 NM.
47	Drift of pollution	47	SSW, 0.2 knots
48	Forecast	48	Expect to reach the creek of Rezovo river in 72 hours.
49	Identity of observer and ships on scene	49	Bulgarian Maritime Administration (BMA) survey vessel "Tchervenov", Bulgarian Border Police Patrol boat at spill site.
50	Action taken	50	Bulgarian National Contingency Plan activated.
51	Photographs or samples	51	Photos and samples taken of the spill.
52	Names of other States informed	52	States – parties to the Black Sea Regional Contingency Plan and ERAC.
53	Spare	53	Results of laboratory analyzes oil samples: type of oil - REBCO, °API at 60 °F = 31.10, density at 15 °C = 0.86-0.87, viscosity 248 cSt @ 15 °C
54	Spare	54	Photographic analysis show the approximate size of the spill: 13 km long, 9 km wide
55	Spare	55	No damage to m/v "CANOPUS". It proceeds to Port of Burgas for examination.
56	Spare	56	Black Sea Contingency Plan activated. Lead country – Bulgaria.
60	Acknowledge	60	Acknowledge

Introductory Part			
Maritime Rescue Co-ordination Centre		From:	MRCC Romania
Address Constanta		To:	MRCC Bulgaria, MRCC Georgia, MRCC Russia, MRCC Turkey, DKSR Ukraine
Address:		Cc:	ERAC Varna
Telephone: + 40 241 615949; + 40 241 601232			
Telefax: + 40 241 606065			
E-mail: mrcc@rna.ro			
Date Time Group		250920zJAN	
Identification		POLREP BLACK SEA	
Serial Number		Your BG/SEA KING/3 refers	
Part III POLFAC			
80	Date and time	80	251555z Jan
81	Request for assistance	81	According NOSC approval Romania can supply : - offshore booms - type RO-BOOM 1500 (3300 meters), - weir skimmer Desmi Terminator – 130 cm/h – 2 pcs - weir skimmer Desmi Termite – 20 cm/h – 5 pcs. - storage floating tank with its own transfer pumps and hoses – type RO-TANK 25 (25,000 litters) – 10 pcs. - HERCULES - multi grade tug; - ACTIVE KING – Anchor Handling Supply Tug .
82	Cost	82	- m/t ACTIVE KING –2500 USD/h - all other equipments and m/t HERCULES at OSRL known rates.
83	Pre-arrangements for the delivery of assistance	83	Bulgaria provides customs clearance and free access to its territorial waters of the requested equipment.
84	To where assistance should be rendered and how	84	ETA Ro units to Burgas Port 260300z Jan WP.
99	Acknowledge	99	Acknowledge

- In order to ensure the proficient and effective application of the Regional Contingency Plan, the Advisory Group on Environmental Safety Aspects of Shipping within Black Sea Commission has approved an Action Plan for Oil Spill Exercises.

Three communication BRAVO type exercises have been already done :

- 25.01.2006 coordinated by Bulgaria
- 26.04.2006 coordinated by Georgia
- 14.11.2006 coordinated by Romania



OIL SPILL DISPERSION ASSESSMENT CAPABILITIES (from NIMRD)

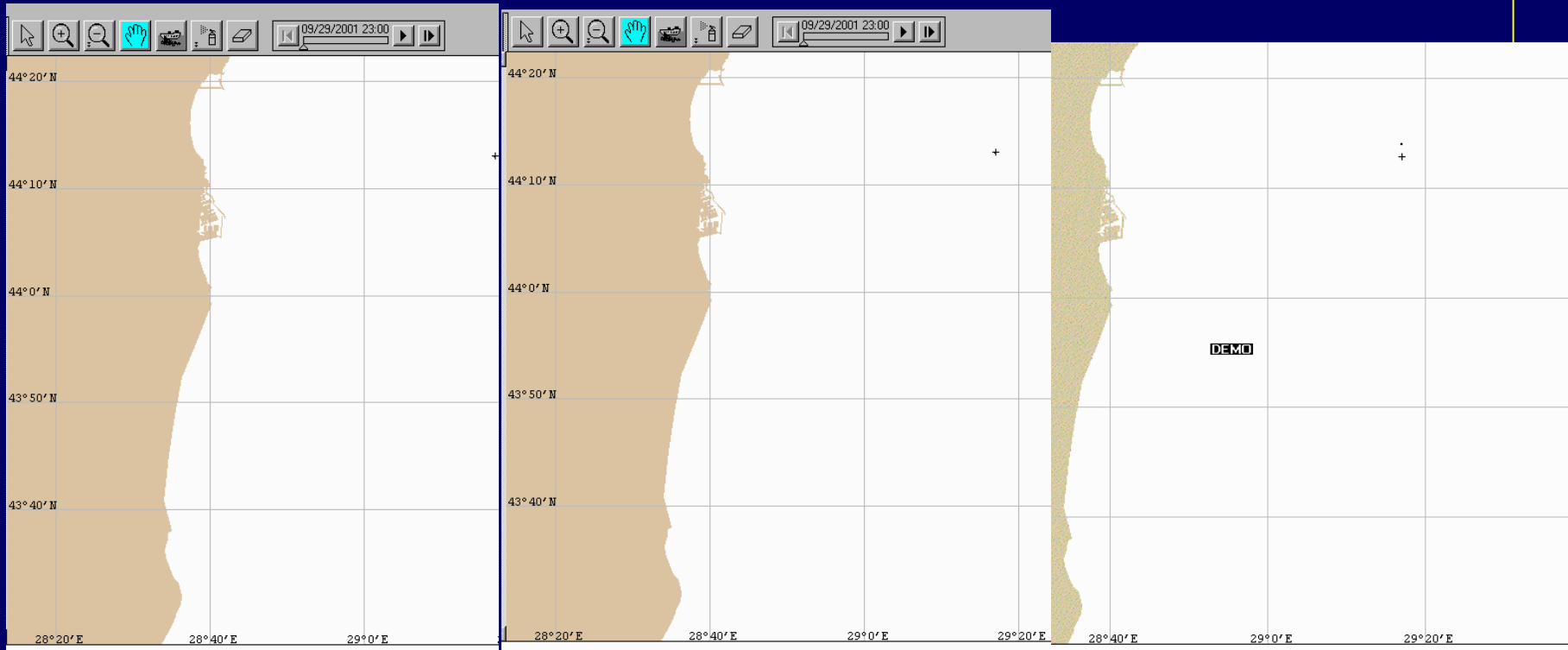
Current status: 2 – wind input data

Scenarios for KAPTAN YASAR sinking (2001) using

Hourly wind (NMA)

mean wind (NNE 5 m/s)

no wind



OIL SPILL DISPERSION ASSESSMENT CAPABILITIES from NIMRD

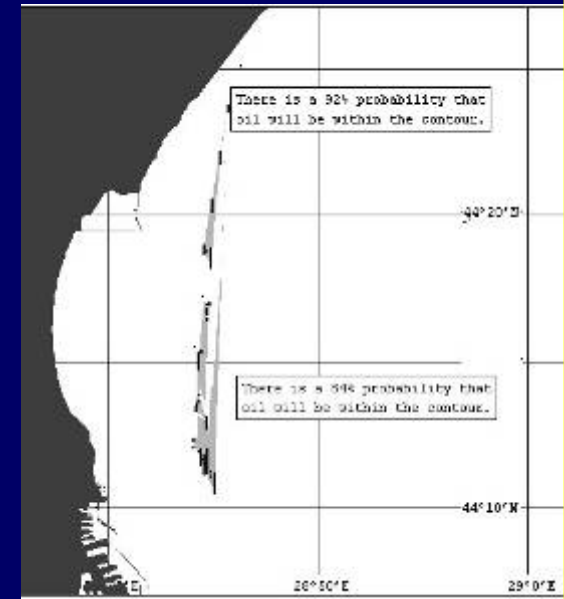
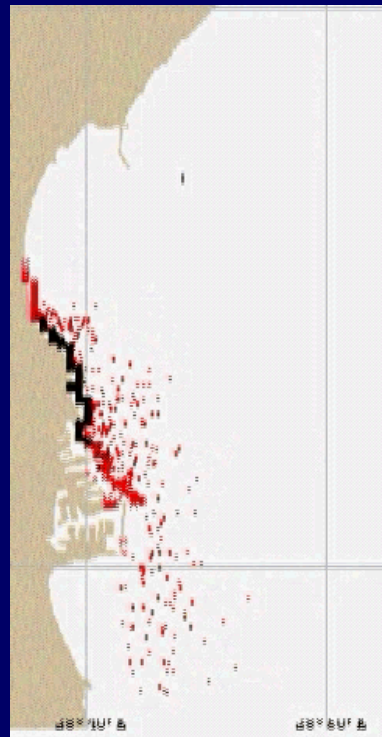
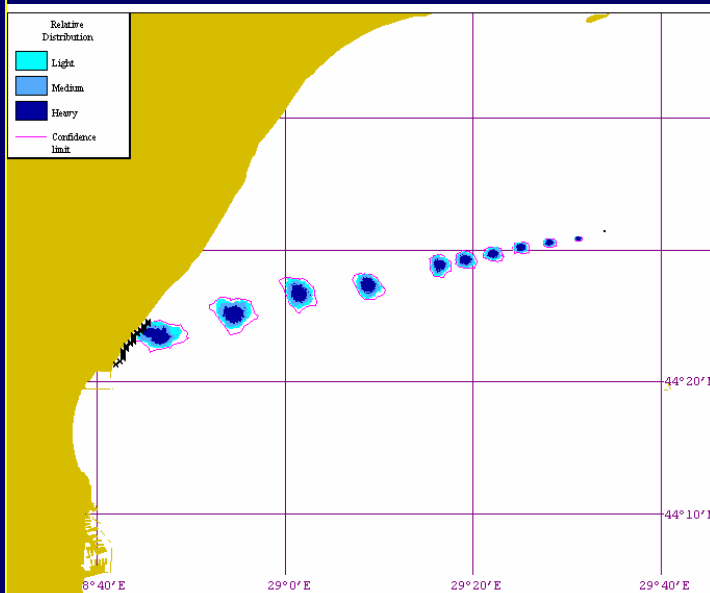
-Current status:

Support for
decisions

GNOME animation

Gnome
Analyst
works

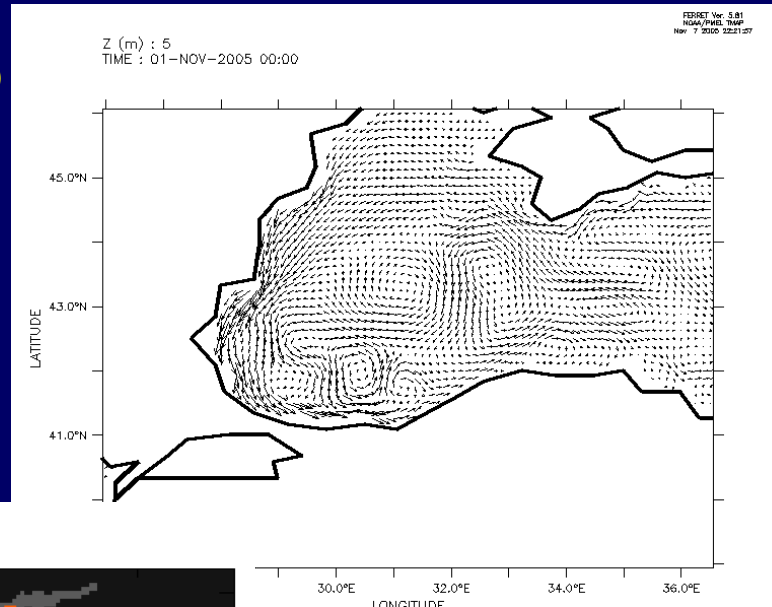
GNOME scenarios



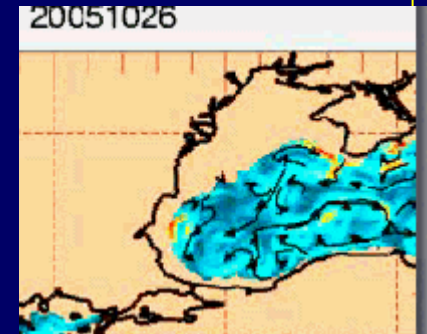
Development of the OIL SPILL DISPERSION ASSESSMENT CAPABILITIES from NIMRD

2. Software needed to use/import free net data into CATS/Gnome system :

wind speed

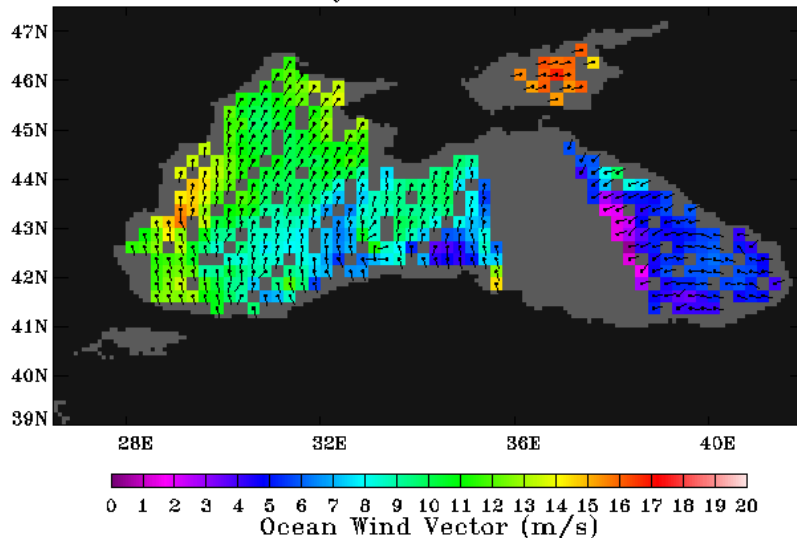


current field

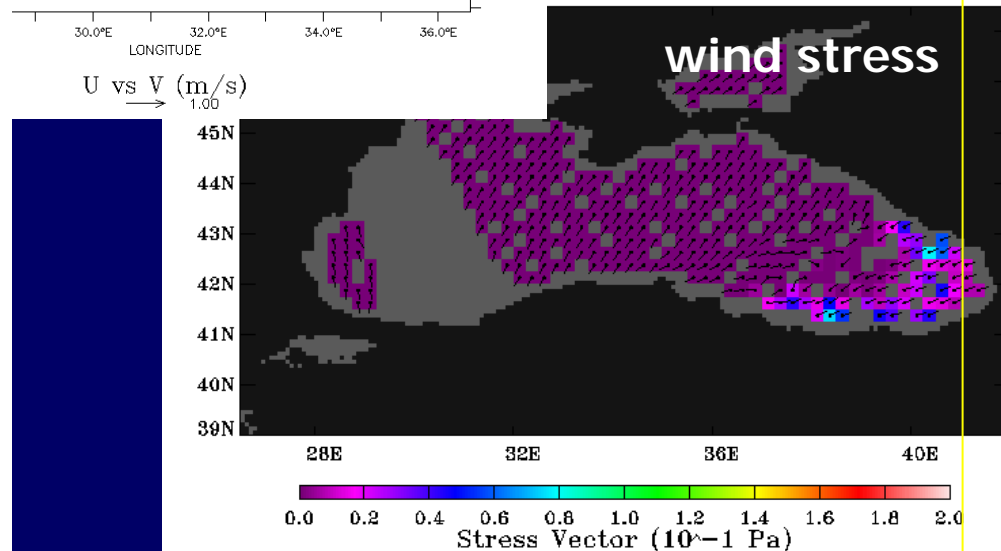


currents forecast

Day: 304 Year: 2005



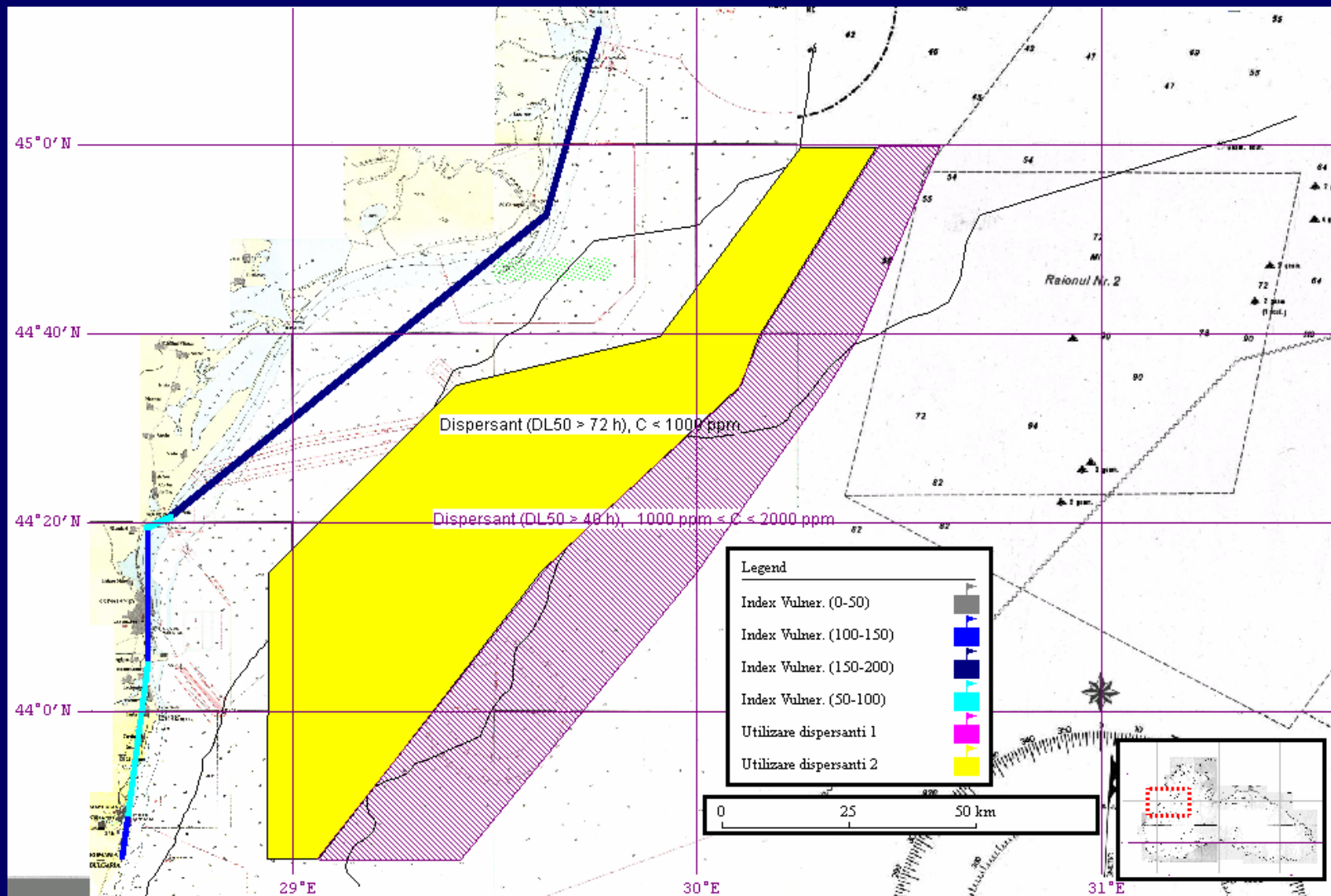
303 Year: 2005



OIL SPILL RESPONSE RELEVANT INSTITUTIONS

- Ministry of Transports, Constructions and Tourism
(main task: maritime interventions -respond to pollution from ships)
Romanian Naval Authority, Romanian SAR Agency
- Ministry of Environment and Water Management
(main task: elaboration and updating of the National Plan)
Dobrogea Littoral - Waters Directorate
National Institute for Marine Research and Development
- Ministry of Administration and Interior
(main task: terrestrial interventions coordination)
General Inspectorate for Emergency Situations
- Ministry of National Defense
Romanian Navy

Shore vulnerability and dispersant permitted zones:



Thank you for your attention!

