

Bulgarian National Agency of Fisheries and Aquacultures

BULGARIAN FISHING FLEET

Number of fishing vessels in the registry

Segment distribution

	Number of fishing vessels									
Segments	31.12.2 008	31.12.2 009	31.12.2 010	31.12.2 011 activ vessels						
To 6 meters	846	708	762	341						
from 6 to 11.99 м	1 593	1 392	1 471	585						
from 12 to 17.99 м	68	65	67	60						
from 18 to 23.99 м	29	28	27	12						
over 24 м	12	13	13	12						
total	2 548	2 206	2 340	1010						

STOCKS SUBJECT OF ASSETS OF FISHING VESSELS FLYING THE FLAG OF BULGARIA

- Demersal Turbot,flounder,whiting,thornback ray etc.
- Pelagic-sprat,anchovy,horse mackerel,bonito,bluefish etc.
- CURRENTLY TWO STOCKS ARE SUBJECT of fixing the fishing opportunities (turbot and sprat) in Bklack Sea community watres.

Used fishing gears

- Demersal fishing gears (gill nets.....)
- Pelagic fishing gears GNS, OTM, FPO
- prohibition for demersal trawling-Introduced by the Law on Fisheries and Aquaculture in 2002 to protect the demersal communities in the Black Sea, which is unique in nature because is closed sea

Control of fishing activities

- Control measures
- EU legislation: REG. control
- introduced VMS
- Information Statistical system (ISS)

INFORMATION SYSTEMS

 NAFA - Bulgaria developed and implemented two information systems and operative levels – Information Statistical system (ISS) and Vessels Monitoring system (VMS).

 The implementation of these Information systems is in conformity with the EU Regulations and recommendations.

General features:

Produces authoritative fishing statistics reports in conformity with the EU legislation requirements related to data format.

 Thorough analysis of the results, determining adequate management decisions.

 Basic advantage of the adopted systems is their contribution to the enhancement of NAFA's control techniques efficiency

 Effectiveness and high speed data processing.

nformation statistical System of NAFA





General features and aims

- To carry out processes of centralized collection of fishing statistics data, processing, validation and storage
- To receive, store and exchange data with other systems VMS, Other Information systems
- To analyze the data and to facilitate revealing nonconformity of data
- To summarize data and automatically supply it to EC
- To render various e-services to public part of egovernment

Structure, Information Modules

- The information system is web server based system, working in real time and the data stored is renewed up to date by the authorized operators. The access to the system is secured by individual password assigned to the relevant authorized operator.
- The system is a combination of information modules related to the different directions in the fishing statistics. The data collected could be transferred from one information module to another automatically or depending on the user's classification criteria.





My Network Places



Internet Explorer









1 Акстър ОФИС Достъп до ИАРА ИС 2006 ð Парола ष्ट्र 🌖 ИБикарска -Име Смяна на парола **** Парола Кръстосани проверки 🖌 ОК 🖉 Отказ F Kaca документи

NAFA ISS Registers

menu







Structure, Information Modules

- Fishing fleet register: the data collected includes registration number, name of the vessel, technical parameters, producer information, personal details of the vessel's owner;
- Commercial Fishing licenses register the information collected in this information module is for the fishing licenses issued by the agency: the number of the license, the type of the fishing gears, the number of the logbooks etc.. This module corresponds with the fleet register automatically
- Recreational fishing register
- Catch register: contains information like: landing declarations, take over declarations, transport documents – corresponds with Commercial Fishing licenses register.
- Branch organizations register. Contains: list of main data of branch organizations and operational program list of projects
- Register of Producer Organizations. Contains: Registration of Producer organizations. Production and processing data.
 Operational program list of projects.

Subsystem analyses and reports

- Quota expiry reports
- Scientific data available resources and catches effected
- Fishing effort
- Catches effected (different species)
- Fishing fleet capacity
- Warning for delayed submission of landing declarations and sales notes

VESSEL MONITORING SYSTEM

Visualization of the vessel's movement

- ☑ Large scale vector electronic map in WGS 84 coordinate system
- Options for monitoring of predefined number of objects
- ☑ The data stored in the system (current coordinates, date, time...) could be checked and analyzed easily for programmable period of time.



Message format

- The messages transmitted through the onboard equipment, installed on the board of the fishing vessels contain the following information:
- Name of the vessel \ external mark
- Date and time of transmission
- Position time
- Reason for transmission (data report, message)
- Current coordinates
- Speed
- Course
- Distance from homeport
- Message number
- In case of text message transmission the message is displayed along with positions registration data

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Communication between the FMC and the Master of the fishing vessel

- The system disposes with module designed for communication between the FMC and the Master of the fishing vessel. This is accomplished by the transfer of text messages – could be free style.
- Request for current position suspecting IUU fishing activity the operator from the VMS center could generate request for reporting the current position, which will be responded automatically by the vessel's equipment – prevents data corruption by third parties
- Polling option in case of infringement the vessels activity can be controlled more strictly. The frequency of transmission can be increased remotely.

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чавдар кирил 45 нико одесте рк 41 корсар руса свети и	2008.04.05 15:57:50 2008.04.05 09:32:00 2008.04.05 08:43:49 2008.04.05 08:43:49 2008.04.05 08:43:49 2008.04.05 08:43:49 2008.04.05 15:417 2008.04.03 10:54:17 2008.03.31 13:57:36 2008.03.31 13:57:36 2008.03.31 13:57:36	DATA_REPOF Message DATA_REPOF DATA_REPOF DATA_REPOF SATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF	LAST EVENTS (25 Vehicle PK ДЕВА PK ДЕЛТА PK 26 PK ШЕНЮЗЕР PK 28 PK ДЕВА OMETA DK 26	54:254) Date 2008.04.06 16:44:26 2008.04.06 16:42:18 2008.04.06 16:41:14 2008.04.06 16:15:56 2008.04.06 16:15:55 2008.04.06 16:01:22 2008.04.06 16:01:22	Position time 2008.04.06 16:46:39 2008.04.06 16:44:29 2008.04.06 16:43:29 2008.04.06 16:28:01 2008.04.06 16:18:08 2008.04.06 16:18:08 2008.04.06 16:03:36 2008.04.06 16:03:09	Reason DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE	Longitude 028 37' 12"E 028 40' 28"E 027 47' 02"E 028 40' 45"E 027 44' 31"E 028 38' 26"E 027 43' 50"E 027 54' 31"E	NC Latitude 043 06' 48''N 043 14' 38''N 042 28' 16''N 043 14' 48''N 042 25' 19''N 043 09' 07''N 042 20' 52''N 042 30' 02''N	SOUND S C. 003 211 004 321 004 28 014 28 014 28 014 28 003 111 000 311	DELETE . Message 0 1 2 3 3 3 3 3 3 3 5 5 5	EXPO Messag 1624128 1624127 1624125 1624125 1624123 1624123 1624122 1624121	0 <u>46 km</u> <u>RT</u> <u>SETTINGS</u> Nearest POI Балчик-47,4km Балчик-45,7km Созопол-9,2km Балчик-46,0km Созопол-4,1km Балчик-48,4km Созопол-9,1km Созопол-19,7km
чавдар кирил 45 нико одестре рк 41 корсар руса свети и свети и ченісце se	2008.04.05 15:57:50 2008.04.05 09:32:00 2008.04.05 08:43:49 2008.04.05 08:43:49 2008.04.05 08:43:49 2008.04.05 08:43:49 2008.04.03 10:54:17 2008.03.31 13:57:36 2008.03.31 13:57:36 2009.03.20 13:57:37 2008.03.31 13:57:37 2008.03.31 13:57:37 2008.03.31 13:57:36 2008.03.31 13:57:36 2008.03.31 13:57:36 2008.03.31 13:57:37 2008.03.31 13:57:37 2009.03.31 13:57:37 2009.03.31 13:57:37 2009.03.31 13:57	DATA_REPOF Message DATA_REPOF DATA_REPOF DATA_REPOF SUCCEPT DATA_REPOF DATA_REPOF DATA_REPOF	LAST EVENTS (25 Vehicle PK ДЕВА PK ДЕЛТА PK 26 PK ШЕНЮЗЕР PK 28 PK ДЕВА OMETA PK 26 E45159	54:254) Date 2006.04.06 16:44:26 2008.04.06 16:42:18 2008.04.06 16:42:18 2008.04.06 16:41:14 2008.04.06 16:15:56 2008.04.06 16:01:22 2008.04.06 16:01:12 2008.04.06 16:01:12	Position time 2008.04.06 16:46:39 2008.04.06 16:44:29 2008.04.06 16:43:29 2008.04.06 16:28:01 2008.04.06 16:18:08 2008.04.06 16:03:26 2008.04.06 16:03:20 2008.04.06 16:03:20	Reason DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE Message DATA_RE	Longitude 028 37' 12"E 028 40' 28"E 027 47' 02"E 028 40' 45"E 027 44' 31"E 028 38' 26"E 027 43' 50"E 027 54' 31"E 028 37' 33"E	NC Latitude 043 08' 48''N 043 14' 38''N 042 28' 16''N 043 14' 48''N 042 25' 19''N 043 09' 07''N 042 20' 52''N 042 00' 20''N 043 16' 21''N	SOUND S C. 003 211 004 321 016 23 014 28 014 28 014 28 003 111 000 3111 000 3111	DELETE Message Switch on	EXPO Messag 1624128 1624127 1624125 1624125 1624124 1624123 1624122 1624121 1624121	0 46 km DRT SETTINGS Nearest POI Балчик-47,4km Балчик-45,7km Созопол-9,2km Балчик-46,0km Созопол-9,2km Балчик-48,4km Созопол-9,1km Созопол-9,1km Созопол-19,7km Балчик-40,9km
HABDAP KUPUN 45 HUKO ODEC PK 4 PVC4 CBETH M CBETH M CBETH M CBETH M CBETH M CBETH M	2008.04.05 15:57:50 2008.04.05 09:32:00 2008.04.05 08:43:49 2008.04.05 08:43:49 2008.04.05 08:43:49 2008.04.05 08:43:49 2008.04.01 10:24:17 2008.04.01 10:24:17 2008.03.31 13:57:36 2008.03.31 13:57:36 2009.03.31 13:57:36 2009.03.31 13:57:36 2009.03.31 13:57:57:57:57:	DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF	LAST EVENTS (25 Vehicle PK ДЕВА PK ДЕПТА PK 26 PK ШЕНЮЗЕР PK 28 PK ДЕВА OMEFA PK 26 B45159 PK 40	54:254) Date 2008.04.06 16:44:26 2008.04.06 16:42:18 2008.04.06 16:42:18 2008.04.06 16:42:18 2008.04.06 16:15:56 2008.04.06 16:01:55 2008.04.06 16:01:22 2008.04.06 16:01:05 2008.04.06 16:01:39	Position time 2008.04.06 16:46:39 2008.04.06 16:44:29 2008.04.06 16:43:29 2008.04.06 16:28:01 2008.04.06 16:18:08 2008.04.06 16:03:36 2008.04.06 16:03:20 2008.04.06 16:03:20 2008.04.06 16:03:20	Reason DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE	Longitude 028 37' 12"E 028 40' 28"E 027 47' 02"E 028 40' 45"E 027 44' 31"E 028 38' 26"E 027 43' 50"E 027 54' 31"E 028 37' 33"E 027 34' 28"E	NC Latitude 043 08' 48''N 043 14' 38''N 042 28' 16''N 043 14' 48''N 042 25' 19''N 043 09' 07''N 042 20' 52''N 042 30' 02''N 043 16' 21''N 042 38' 57''N	SOUND S C. 003 211 004 32 016 23 004 28 014 28 003 111 000 311 003 23 016 27	DELETE Message Switch on	EXPO Messag 1624128 1624127 1624125 1624125 1624124 1624123 1624122 1624121 1624120 1624119	0 46 km PRT SETTINGS Nearest POI Балчик-47,4km Балчик-45,7km Созопол-9,2km Балчик-46,0km Созопол-9,2km Балчик-48,4km Созопол-9,1km Созопол-9,1km Созопол-9,1km Созопол-19,7km Балчик-40,9km Несебър-1,1km
чавдар кирил 45 нико одестре руса свети и свети и ченісце se send mess status re	2008.04.05 15:57:50 2008.04.05 09:32:00 2008.04.05 09:32:00 2008.04.05 08:43:49 2008.04.05 08:43:49 2008.04.05 08:43:49 2008.04.02 10:54:17 2008.04.02 10:54:17 2008.03.31 13:57:36 2008.03.31 13:57:37	DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF	LAST EVENTS (25 Vehicle PK ДЕВА PK ДЕПТА PK 26 PK ШЕНЮЗЕР PK 28 PK ДЕВА OMEFA PK 26 EV5159 PK 40 PK 26	54:254) Date 2008.04.06 16:44:26 2008.04.06 16:42:18 2008.04.06 16:42:18 2008.04.06 16:42:18 2008.04.06 16:15:56 2008.04.06 16:01:55 2008.04.06 16:01:22 2008.04.06 16:01:25 2008.04.06 16:01:39 2008.04.06 16:01:39 2008.04.06 15:51:01	Position time 2008.04.06 16:46:39 2008.04.06 16:44:29 2008.04.06 16:43:29 2008.04.06 16:43:29 2008.04.06 16:18:08 2008.04.06 16:18:08 2008.04.06 16:03:36 2008.04.06 16:03:20 2008.04.06 16:03:20 2008.04.06 16:02:52 2008.04.06 15:48:00	Reason DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE	Longitude 028 37' 12"E 028 40' 28"E 027 47' 02"E 028 40' 45"E 027 44' 31"E 028 38' 26"E 027 43' 50"E 027 54' 31"E 028 37' 33"E 028 37' 33"E 028 37' 33"E 027 54' 28"E	NC Latitude 043 08' 48''N 043 14' 38''N 042 28' 16''N 043 14' 48''N 042 20' 71''N 043 09' 07''N 042 20' 52''N 042 30' 02''N 043 16' 21''N 042 30' 55''N	SOUND S C. 003 211 004 32 016 23 004 28 014 28 003 111 000 311 003 23 016 27 016 27	DELETE Message Switch on Switch off	Expo Messag 1624128 1624127 1624125 1624125 1624123 1624123 1624122 1624121 1624120 1624119 1624118	0 46 km PRT SETTINGS Nearest POI Балчик-47,4km Балчик-45,7km Созопол-9,2km Балчик-46,0km Созопол-9,2km Балчик-48,4km Созопол-9,1km Созопол-19,7km Балчик-40,9km Несебър-1,1km Созопол-22,9km
чавдар кирил 45 нико одестре руса корсар руса свети и ченісце se send mess status re Request tyr	2008.04.05 15:57:50 2008.04.05 09:32:00 2008.04.05 09:32:00 2008.04.05 09:32:00 2008.04.05 09:32:01 2008.04.04 1924 2008.04.01 10:54:17 2008.04.01 10:54:17 2008.03.31 13:57:36 2008.03.31 13:57:36 2009.03.31 13:57:36 2009.03.31 13:57:36 2009.03.31 13:57:36 2009.03.31 13:57:36 2009.03.31	DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF	LAST EVENTS (25 Vehicle PK ДЕВА PK ДЕПТА PK 26 PK ШЕНЮЗЕР PK 28 PK ДЕВА OMEFA PK 26 PK 40 PK 26 PK 26	54:254) Date 2008.04.06 16:44:26 2008.04.06 16:42:18 2008.04.06 16:42:18 2008.04.06 16:42:18 2008.04.06 16:15:56 2008.04.06 16:15:55 2008.04.06 16:01:22 2008.04.06 16:01:12 2008.04.06 16:01:39 2008.04.06 15:51:01 2008.04.06 15:48:29	Position time 2008.04.06 16:46:39 2008.04.06 16:44:29 2008.04.06 16:43:29 2008.04.06 16:43:29 2008.04.06 16:18:08 2008.04.06 16:18:08 2008.04.06 16:03:20 2008.04.06 16:03:20 2008.04.06 16:02:52 2008.04.06 15:48:00	Reason DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE Message Message	Longitude 028 37' 12"E 028 40' 28"E 027 47' 02"E 028 40' 45"E 027 44' 31"E 028 38' 26"E 027 44' 31"E 028 37' 33"E 027 54' 31"E 028 37' 33"E 027 56' 28"E 027 56' 33"E	NC Latitude 043 08' 48''N 043 14' 38''N 042 28' 16''N 043 14' 48''N 042 25' 19''N 043 09' 07''N 042 20' 52''N 042 30' 02''N 043 16' 21''N 042 38' 57''N 042 30' 55''N	SOUND S C. 003 211 004 32 016 23 014 28 014 28 003 111 000 311 003 23 016 27 016 27 	DELETE Message Switch on 2 Switch off Switch on	Expo Messag 1624128 1624127 1624125 1624125 1624123 1624123 1624122 1624121 1624120 1624119 1624118	0 <u>46 km</u> <u>RT</u> <u>SETTINGS</u> Nearest POI Балчик-47,4km Балчик-45,7km Созопол-9,2km Балчик-46,0km Созопол-9,1km Созопол-9,1km Созопол-9,1km Созопол-9,1km Созопол-9,1km Созопол-2,9km Несебър-1,1km Созопол-22,9km
VABDAP KUPUJ 45 HUKO ODEC PK4 PVC4 COPCAP PVC4 COPCAP PVC4 COPCAP PVC4 COPCAP PVC4 COPCAP PVC4 COPCAP PVC4 COPCAP PVC4 COPCAP C	2008.04.05 15:57:50 2008.04.05 09:32:00 2008.04.05 09:32:00 2008.04.05 09:43:49 2008.04.05 09:43:49 2008.04.04 19:24 2008.04.04 19:24 2008.03.31 13:57:36 2008.03.31 13:57:36 2009.03.31 13:57:36 2009.03.31 13:57:36 2009.03.31 13:57:36 2009.03.31 13:57:36 2009.03.31 13:57:36 2009.03.31 13:57:36 2009.03.31 13:57:36 2009.03.31 13:57:37 2009.03.31 1	DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF	LAST EVENTS (25 Vehicle PK ДЕВА PK ДЕЛТА PK 26 PK ШЕНЮЗЕР PK 28 PK ДЕВА OMEFA PK 26 PK 26 PK 26 PK 26 PK 26 PK 26 PK ДЕВА	54:254) Date 2008.04.06 16:44:26 2008.04.06 16:44:26 2008.04.06 16:42:18 2008.04.06 16:42:18 2008.04.06 16:15:56 2008.04.06 16:15:55 2008.04.06 16:01:22 2008.04.06 16:01:22 2008.04.06 16:01:39 2008.04.06 15:51:01 2008.04.06 15:45:101	Position time 2008.04.06 16:46:39 2008.04.06 16:44:29 2008.04.06 16:43:29 2008.04.06 16:43:29 2008.04.06 16:18:08 2008.04.06 16:18:08 2008.04.06 16:03:20 2008.04.06 16:03:20 2008.04.06 16:02:52 2008.04.06 15:48:00 2008.04.06 15:48:00 2008.04.06 15:48:00	Reason DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE Message DATA_RE DATA_RE Message Message Message DATA_RE	Longitude 028 37' 12"E 028 40' 28"E 027 47' 02"E 027 44' 31"E 028 38' 26"E 027 44' 31"E 028 37' 33"E 027 54' 31"E 027 54' 28"E 027 56' 28"E 027 56' 33"E 028 38' 55"E	NC Latitude 043 08' 48''N 043 14' 38''N 042 28' 16''N 043 14' 48''N 042 25' 19''N 043 09' 07''N 042 20' 52''N 042 30' 02''N 042 30' 57''N 042 30' 57''N 042 30' 57''N 042 30' 57''N	SOUND S C. 003 211 004 322 016 23 014 28 004 28 014 28 003 111 000 311 003 23 016 27 003 02	DELETE Message Switch on Switch on	Expo Messag 1624128 1624127 1624125 1624125 1624123 1624123 1624122 1624121 1624120 1624119 1624118 1624117 1624116	0 <u>46 km</u> <u>RT</u> <u>SETTINGS</u> Nearest POI Балчик-47,4km Балчик-45,7km Созопол-9,2km Балчик-46,0km Созопол-9,2km Созопол-9,1km Созопол-9,1km Созопол-9,1km Созопол-9,7km Балчик-40,9km Несебър-1,1km Созопол-22,9km Созопол-22,9km Созопол-23,0km
VABDAP KUPUJ 45 HUKO ODEC PK4 PVC4 COPCAP OCETU И VEHICLE SE SEND MESS STATUS RE Request typ C DNID po C Minimal	2008.04.05 15:57:50 2008.04.05 09:32:00 2008.04.05 09:32:00 2008.04.05 09:43:49 2008.04.05 09:43:49 2008.04.05 09:43:49 2008.04.04 19:24 2008.04.04 19:24 2008.03.31 13:57:36 2008.03.31 13:57:36 2009.03.31 13:57:37 2009.03.31 1	DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF DATA_REPOF	LAST EVENTS (25 Vehicle PK ДЕВА PK ДЕЛТА PK 26 PK ШЕНЮЗЕР PK 28 PK ДЕВА OMEFA PK 26 PK 26 PK 26 PK 26 PK 26 PK 26 PK ДЕВА PK ДЕЛТА	54:254) Date 2008.04.06 16:44:26 2008.04.06 16:44:16 2008.04.06 16:42:18 2008.04.06 16:42:18 2008.04.06 16:15:56 2008.04.06 16:15:55 2008.04.06 16:01:22 2008.04.06 16:01:22 2008.04.06 16:01:39 2008.04.06 15:51:01 2008.04.06 15:48:29 2008.04.06 15:48:49 2008.04.06 15:48:49	Position time 2008.04.06 16:46:39 2008.04.06 16:44:29 2008.04.06 16:43:29 2008.04.06 16:43:29 2008.04.06 16:28:01 2008.04.06 16:18:08 2008.04.06 16:03:20 2008.04.06 16:03:20 2008.04.06 16:02:52 2008.04.06 15:48:00 2008.04.06 15:48:00 2008.04.06 15:48:00 2008.04.06 15:48:52	Reason DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE DATA_RE Message Message DATA_RE DATA_RE	Longitude 028 37' 12"E 028 40' 28"E 027 47' 02"E 028 40' 45"E 027 44' 31"E 028 38' 26"E 027 44' 31"E 028 37' 33"E 027 54' 31"E 027 56' 28"E 027 56' 33"E 027 56' 33"E 028 38' 55"E 028 43' 19"E	NC Latitude 043 08' 48"N 043 14' 38"N 042 28' 16"N 043 14' 48"N 042 25' 19"N 043 09' 07"N 042 20' 52"N 042 30' 02"N 043 16' 21"N 042 30' 57"N 042 30' 57"N 042 30' 57"N 042 30' 57"N 043 08' 43"N	SOUND S C. 003 211 004 322 016 23 014 28 004 28 014 28 003 111 000 311 003 23 016 27 016 27 003 021 004 25	DELETE Message Switch on Switch on Switch on	Expo Messag 1624128 1624127 1624125 1624125 1624123 1624123 1624122 1624121 1624119 1624118 1624117 1624116 1624115	0 <u>46 km</u> RT <u>SETTINGS</u> Nearest POI Балчик-47,4km Балчик-45,7km Созопол-9,2km Балчик-46,0km Созопол-9,2km Созопол-9,1km Созопол-9,1km Созопол-9,1km Созопол-9,7km Балчик-40,9km Несебър-1,1km Созопол-22,9km Созопол-22,9km Созопол-22,9km Балчик-49,4km Балчик-49,4km
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20744	EJINC PK 26	2006.12.14 10:50:	2006/12/14 10:51:	POI	Sending in progress Sending failed	Inmarsat-minic	Supervise	or s	Supervisor	INMARSATC-INTE	INTERNET	5
20743	ДЕЛФИН	2006.12.14 10:50:	2006.12.14 10:51:	Poll	Sending in progress	Inmarsat-minic	Supervise	or S	Supervisor	INMARSATC-INTE	INTERNET	5
20747	ПРИЯТЕЛ	2006.12.14 10:51:	2006.12.14 10:51:	Poll	Sending in progress	Inmarsat-minic	Supervise	or S	Supervisor	INMARSATC-INTE	INTERNET	10
20746	НАРВАЛ 1	2006.12.14 10:50:	2006.12.14 10:51:	Poll	Sending in progress	Inmarsat-minic	Supervise	or S	Supervisor	INMARSATC-INTE	INTERNET	 5
20749	PK 21	2006.12.14 10:51:	2006.12.14 10:51:	Poll	Sending in progress	Inmarsat-minic	Supervise	or S	Supervisor	INMARSATC-INTE	INTERNET	5
20781	ЧАВДАР	2006.12.14 10:58:	2006.12.14 10:59:	Poll	Sending in progress	Inmarsat-minic	Superviso	or S	Supervisor	INMARSATC-INTE	INTERNET	10
20782	PK 28	2006.12.14 10:58:	2006/12/14 10:59:	Poll	Sending in progress	Inmarsat-minic	Supervise	or s	Supervisor	INMARSATC-INTE	INTERNET	10
20785	ЕЛИС	2006.12.14 10:58:	2006.12.14 10:03	Poll	Sending in progress	Inmarsat-minic	Supervise	or S	Supervisor	INMARSATC-INTE	INTERNET	10
20784	ПРИЯТЕЛ	2006.12.14 10:58:	2006.12.14 10:59:	Poll	Sending in progress	Inmarsat-minic	Supervise	or S	Supervisor	INMARSATC-INTE	INTERNET	10
20786	МЕДУЗА З	2006.12.14 10:58:	2006.12.14 11:00:	Poll	Sending in progress	Inmarsat-minic	Supervise	or S	Supervisor	INMARSATC-INTE	INTERNET	10
20795	PK 27	2006.12.14 11:45:	2006.12.14 12:10:	Poll	Sending in progress	Inmarsat-minic	Monitor-v	n N	Monitor-v	INMARSATC-INTE	INTERNET	10
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VMS Features and aims

- The system provides an indication of the fishing activity and records the vessel's track pattern
- Option for detailed analysis of the vessel's fishing activity
- The catch could be checked and registered even in case that the vessel is not discharged at it's homeport
- Enhances the control efficiency over the Bulgarian part of the Black sea coast

Scientific orientated data rawl surveys for assessment of the resources of commercially important species

 One of NAFA's main activities is research of sustainable catch levels and determination of the national quotas of commercially important species.

The agency is financially involved in trawl survey projects and in data processing. The FMC provides information stored in the FVMS to support the surveys' reports preparation.

- Figure 1. Trace of the Fishing vessel "Elis" trawl survey for turbot recourses
- Figure 2. Trace if the Fishing vessel "Prof. Vulkanov' trawl survey for sprat recourses.









Figure 1

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Fishing Vessels Database

A special database is created within the VMS to serve the operators and inspectors, allowing faster identification of the fishing vessel. In this database are stored such vessel's characteristics like:

- Name of the vessel
- Registration number
- Call sign (vessel's main identification elements)
- MMSI (vessel's main identification elements)
- Technical parameters like length, width ...
- Actual picture of the fishing vessel
- Contact details of the Master of the vessel
- Contact details of the vessel's owner



Additional software products WebOverMap" and "ZoneMaker"

1. "WebOverMap"

A special software was developed and implemented in operation in order to allow the operator to perform different reports with the system's data.

The purpose of this software is to help the operators in data analysis. This program is taking a place also in the monitoring of the patrol vessels, helping the operator to submit the necessary information to the inspectors in time and to enhance the control efficiency. In this matter the program will also allow us to record the number of the inspections at sea and according to these records we will be enough flexible to improve and expand the existing control techniques.

Multiple track of the fishing vessels pattern for predefined periodscientific orientated data.









2. "ZoneMaker"

The purpose of this software is to link information about forbidden areas with other programs like "WebOverMap" and to allow the operator to monitor if the offence will occur.

To help the operators in data analysis.

The offenders will be marked in red and sound signalization is also provided.



🧭 MTS - WebOverMap



IUU

	SECTOR Fisheries	Infringeme nt,	quantities confiscate	Estimated revenues of the IUU products,
Nº	Control	number	d, kg	levs
1	Burgas	99	20318	243 <mark>816</mark>
2	Dobrich	35	451	5412
3	Varna	120	3215	38580
	TOTAL	254	23984	287808

 During last two years we have undertaken measures for amendments of the National legislation. One of the main goals is to increase the amount of sanctions for fishing vessels, their owners and captains, as well as for citizens involved in IUU fisheries.

Impacts of IUU fishing

 Impact of IUU can be both directly and indirectly. The direct impact is reflected in the overfishing, which violates a dynamic balance among marine species. The indirectly impact on IUU affects on the environment and through fishing techniques, discard and disruption of habitats. For example, application of techniques such as bottom trawling leads to a distortion of bottom habitats and the consequences for the entire marine ecosystem. One of the most serious threats to marine biodiversity and sustainable fisheries is illegal, unreported and unregulated fishing.

Management plans

 Plan for Adjustment of fishing effort. The main characteristics of the plan are management of the entry/exit regime, Information for capacity of the vessels, which was entered/excluded from the FR, segmentation of vessels, scrapping of vessels, redirect a vessels for activities other than fishing, redirecting the vessels for the purpose of tourism, redirecting the vessels to create a museum vessels, redirect vessels for training, redirecting the vessels to create artificial reefs, a permanent cessation of fishing activities, distribution of catches by species and state of fish stocks.

Responsible authorities

- The main national authorities involved in implementation of the IUU Regulation are:
- NAFA the Agency is contact point for the implementation of the IUU Regulation. Its main activities are fisheries control, granting fisheries permissions, verification and validation of catch certificates, designating of ports for landing and transshipments for third countries fishing vessels.

- Customs Agency, which is competent authority for customs control, authorization, suspension and denial of importation or exportation.
- Bulgarian Food Safety Agency, Directorate "Border Control" which carries out state veterinary control of imported/exported animal products.
- Directorate General "Border Police" at the Ministry of Interior, which implements control in National waters and EEZ;
- Maritime administration Agency and Bulgarian Ports Infrastructure Company – these authorities are responsible for port access and granting of port services.
- The activities of all authorities are coordinated by Instruction for co-operation



