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**The basic results of the joint  
Russian-Moroccan-Mauritanian researches  
of small pelagic fishes in the economic zones  
of the Kingdom of Morocco  
and Islamic Republic of Mauritania  
fulfilled onboard the Russian research  
vessels during 1994-2008**

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**ATLAS OCEANOGRAPHIQUE DES ZONES  
D'UPWELLING  
DU COURANT DES CANARIES  
SUR LA PERIODE 1994-2007  
(Russia-Marocco-Mauritania)**

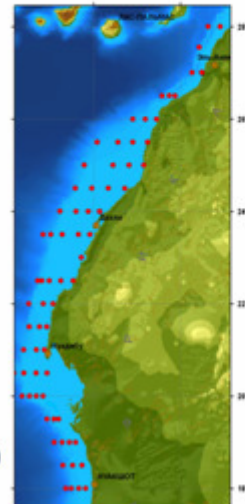


**Russia**



**Logo IMROP (Mauritania)**

**JUILLET 2007**



**Volume of biological and oceanologic observations in AtlantNIRO expeditions carried out in the Central Eastern Atlantic (CEA) area under inter-governmental agreements between Russia and Kingdom of Morocco and Islamic Republic of Mauritania during 1994-2007**

No	Name of vessel	Survey area	Survey period		Number of oceanologic stations	Observations type				
			start	finish		Plankton samples			Ichthyological studies	
						phyto-	zoo-	ichthyo-	mass measurements	biological analysis
1	ATLANTNIRO	21-35°N	17.01.1994	16.03.1994	192	376	180	180	11788	2384
2	ATLANTNIRO	21-36°N	05.07.1994	26.07.1994	85	314	89	121	21804	5686
3	ATLANTNIRO	21-36°N	25.01.1995	25.02.1995	109	291	92	114	35396	8755
4	ATLANTNIRO	16-34°N	19.07.1995	30.09.1995	101	196	65	65	19946	4519
5	ATLANTNIRO	16-31°N	06.06.1996	19.07.1996	96	119	43	43	20558	6191
6	ATLANTNIRO	16-33°N	08.01.1997	17.02.1997	125	211	80	80	23557	6670
7	ATLANTNIRO	18-34°N	21.06.1997	10.08.1997	125	195	121	121	37845	5742
8	ATLANTNIRO	21-33°N	26.02.1998	05.04.1998	75	123	56	56	25897	5837
9	ATLANTNIRO	16-32°N	21.06.1998	12.08.1998	114	162	84	84	29125	6167
10	ATLANTIDA	21-33°N	03.04.1999	01.05.1999	83	129	77	77	29665	3795
11	ATLANTIDA	16-33°N	05.07.1999	23.08.1999	115	207	91	91	33210	8079
12	ATLANTIDA	16-21°N	14.07.2000	30.07.2000	43	215	-	-	43840	10746
13	ATLANTIDA	16-21°N	06.08.2001	18.08.2001	35	240	85	85	30474	5565
14	ATLANTNIRO	16-33°N	14.10.2003	10.12.2003	122	231	77	77	96585	4205
15	ATLANTIDA	16-28°N	07.07.2004	26.08.2004	156	396	70	89	31029	7228
16	ATLANTIDA	16-33°N	24.11.2004	16.01.2005	120	233	78	83	51081	1546
17	ATLANTIDA	16-31°N	05.05.2005	17.06.2005	93	-	-	4	21721	2658
18	ATLANTNIRO	16-32°N	25.11.2005	07.01.2006	116	231	75	75	55162	775
19	ATLANTIDA	16-28°N	07.07.2006	21.08.2006	110	165	63	63	40671	5194
20	ATLANTIDA	21-32°N	15.12.2006	18.01.2007	74	144	48	48	48486	2680
21	ATLANTIDA	16-32°N	03.07.2007	25.08.2007	137	219	68	68	52789	9068
22	ATLANTIDA	21-32°N	21.11.2007	23.12.2007	115	231	82	82	51967	2846
<b>TOTAL:</b>					<b>2341</b>	<b>4628</b>	<b>1624</b>	<b>1706</b>	<b>812596</b>	<b>116336</b>



- complex trawl-acoustic surveys



- surveys of pelagic fish recruitment



- bottom surveys

**Works fulfilled in AtlantNIRO expeditions carried out in the Central Eastern Atlantic (CEA) area under inter-governmental agreements between Russia and Kingdom of Morocco and Islamic Republic of Mauritania during 1994-2007**

No	Name of vessel	Survey area	Survey period	Works fulfilled
1	ATLANTNIRO	21-35°N	I-III.1994	Two trawl-acoustic surveys ( <b>TAS</b> ) in Moroccan zone
2	ATLANTNIRO	21-36°N	VII.1994	TAS and geological surveys, hydrographic measurements in Moroccan zone
3	ATLANTNIRO	21-36°N	I-II.1995	TAS in Moroccan zone
4	ATLANTNIRO	16-34°N	VII-IX.1995	TAS for assessment of squid <i>Todarodes sagittatus</i> biomass
5	ATLANTNIRO	16-31°N	VI-VII.1996	TAS in Moroccan zone, bottom trawl survey in Mauritania
6	ATLANTNIRO	16-33°N	I-II.1997	TAS in Moroccan and Mauritanian zones
7	ATLANTNIRO	18-34°N	VI-VIII.1997	TAS for assessment of squid <i>Todarodes sagittatus</i> biomass
8	ATLANTNIRO	21-33°N	II-IV.1998	TAS for assessment of pelagic fish biomass in Moroccan zone
9	ATLANTNIRO	16-32°N	VI-VIII.1998	TAS for assessment of pelagic fish biomass in Moroccan and Mauritanian zones
10	ATLANTIDA	21-33°N	IV-V.1999	Experimental survey of commercial fish recruitment in Moroccan zone
11	ATLANTIDA	16-33°N	VII-VIII.1999	TAS for assessment of pelagic fish biomass in summer 1999
12	ATLANTIDA	16-21°N	VII.2000	TAS for assessment of commercial fish stocks in Mauritanian zone
13	ATLANTIDA	16-21°N	VIII.2001	TAS for assessment of commercial fish stocks in Mauritanian zone
14	ATLANTNIRO	16-33°N	X-XII.2003	Survey of pelagic fish recruitment in Mauritanian zone
15	ATLANTIDA	16-28°N	VII-VIII.2004	TAS for assessment of pelagic fishes stocks in Moroccan and Mauritanian zones
16	ATLANTIDA	16-33°N	XI.2004-I.2005	Surveys of pelagic fish recruitment in Moroccan and Mauritanian zones
17	ATLANTIDA	16-31°N	V-VI.2005	Bottom survey in Moroccan and Mauritanian zones
18	ATLANTNIRO	16-32°N	XI.2005-I.2006	Surveys of pelagic fish recruitment in Moroccan and Mauritanian zones
19	ATLANTIDA	16-28°N	VII-VII.2006	TAS for assessment of pelagic fishes stocks in Moroccan and Mauritanian zones
20	ATLANTIDA	21-32°N	XII.2006-I.2007	Survey of pelagic fish recruitment in Moroccan zone
21	ATLANTIDA	16-32°N	VII-VIII.2007	TAS for assessment of pelagic fishes stocks in Moroccan and Mauritanian zones
22	ATLANTIDA	21-32°N	XI-XII.2007	Surveys of pelagic fish recruitment in Moroccan and Mauritanian zones