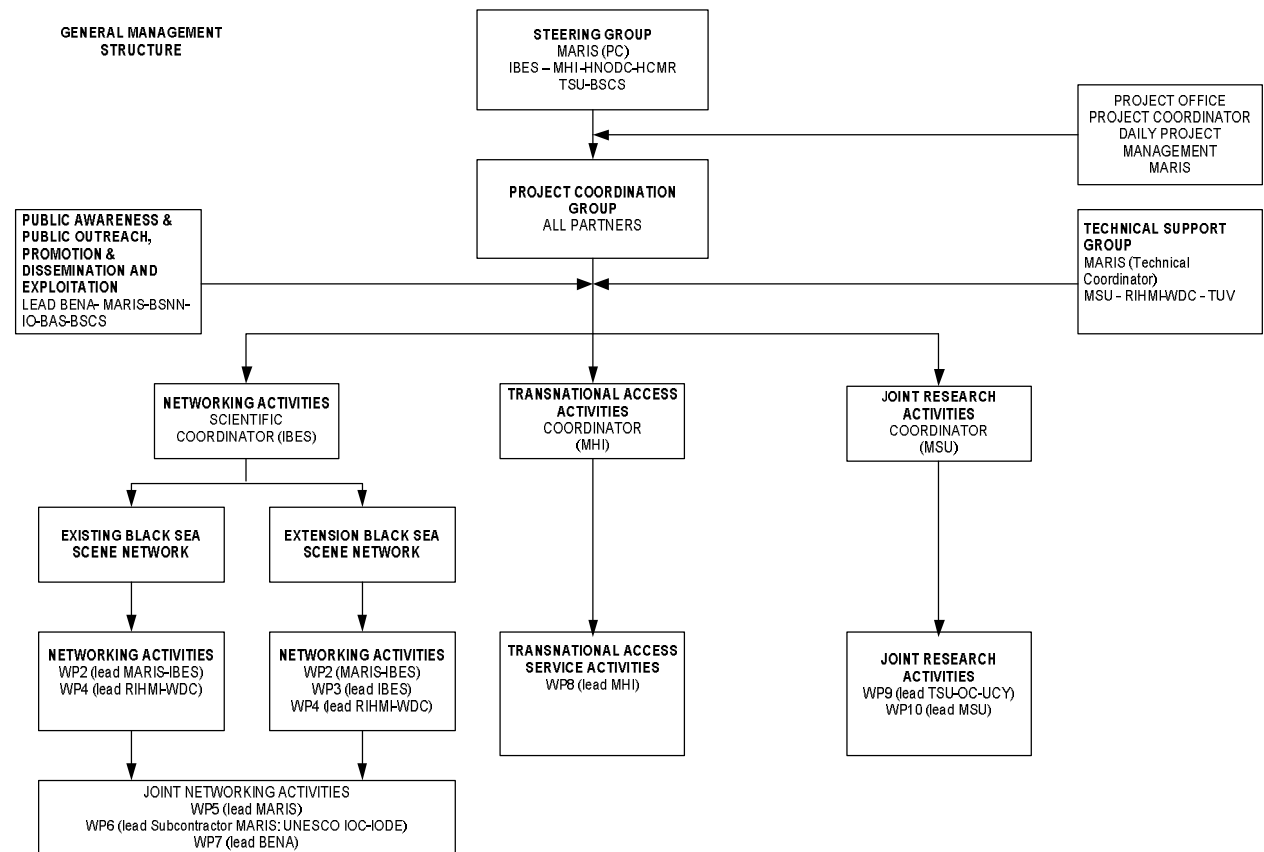


Document with illustrations and tables to the Final Report

Section 4.1

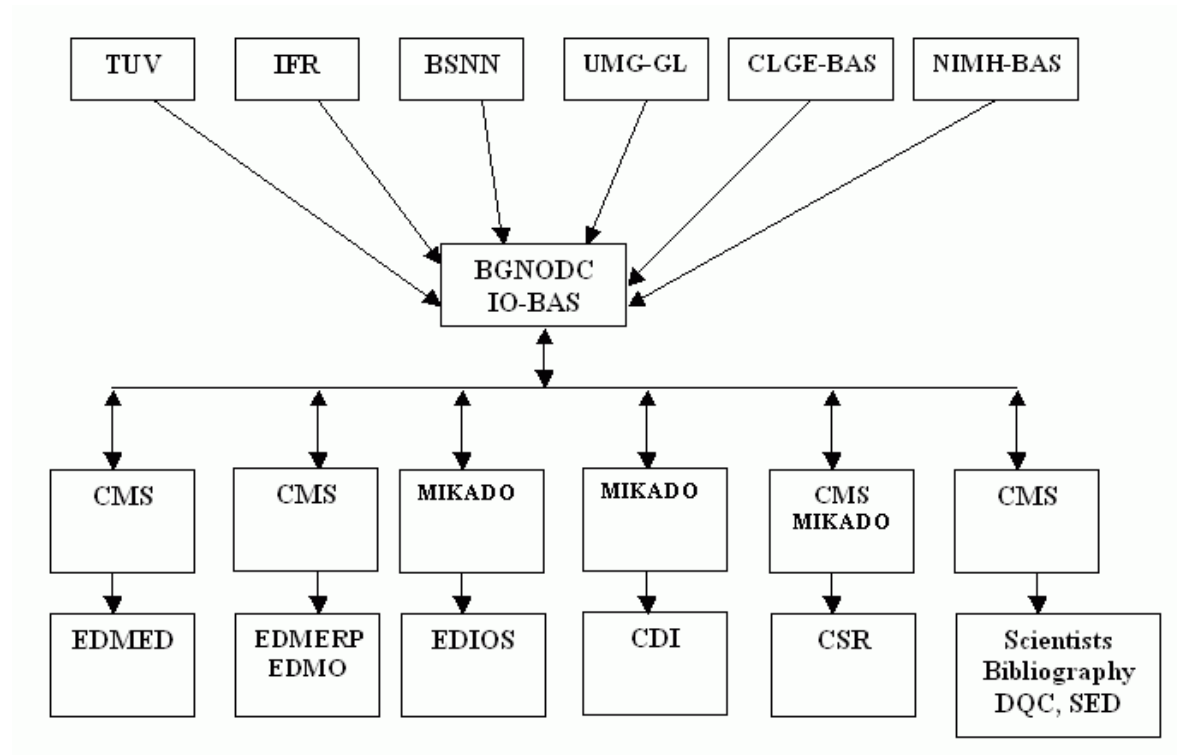
WP1: Project Management:

Applied Management Structure:



WP4 Population of V1 meta-databases

The role of the NODC's is schematized (example for Bulgaria):



The number of records populated for each of the directories submitted by each of the Black Sea countries during the period P1-P36 is shown in the table below.

NODC	COUNTRY	EDMED	CSR (V1)	EDMERP	EDMO	CDI	DQC*	Scientists	Publ.	SED
MHI	Ukraine	56	267	168	22	119775	37	413	1008	34
SIO-RAS/RIHMI-WDC	Russian Federation	116	82	147	128	23374	8	226	832	28
METU-IMS	Turkey	42	206	95	49	5669	11	357	1293	16
IO-BAS	Bulgaria	31	104	47	21	3168	10	144	495	34
NIMRD	Romania	66	99	43	16	4254	5	219	626	6
TSU	Georgia	197	7	142	25	1543	2	116	235	40
Totals		508	765	642	261	158110	73*	1475	4489	158

* Extended DQC forms to describe Data Quality Control applied to databases

WP5: Updating Black Sea virtual data & information infrastructure to V1 level

Deliverable 5-1: Upgraded Black Sea SCENE web portal

UBSS Homepage:

Welcome to the Upgrade BlackSeaScene website - Black Sea SCENE - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Welcome to the Upgrade BlackSeaScene... +

www.blackseascene.net

Black Sea SCENE

Introduction
Metadata services
Data Access Service
The Black Sea
Project background
Partners
Newsletter

Black Sea SCENE SEARCH DATASETS
Click here to visit the Black Sea SCENE database

Project poster
View the poster of the project for dissemination purposes(English language). Available for partners and other interested audience.
» [Read more](#)

Black Sea Outlook conference
View the complete programme including the downloadable presentations from the speakers!
» [Read more](#)

[Home](#)

Welcome to the Upgrade BlackSeaScene website

The UP-GRADE BS-SCENE project is an FP7 EU funded project running from 2009-2011 that is building and extending the existing research infrastructure (developed under FP6 project BlackSeaScene 1) with an additional 19 marine environmental institutes/organizations from the 6 Black Sea countries. Implementing FP6 RI SeaDataNet project standards regarding common communication standards and adapted technologies will ensure the datacenters interoperability. Main output will be on-line access to in-situ and remote sensing data, meta-data and products.

Please browse through this website for information about the services offered and background information on the project.

News

BlackSeaScene article in International Innovation magazine of December 2011
20 December 2011
The December 2011 issue of the International Innovation magazine is headed "We must act now on ..."
» [Read more](#)

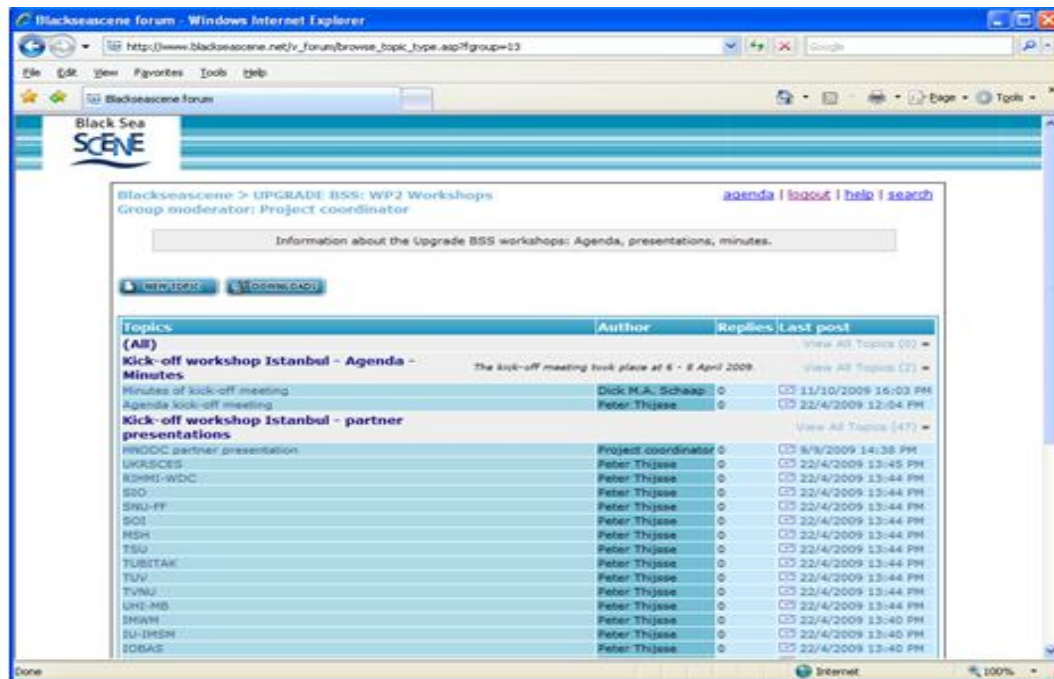
Conference announcement: Black Sea Outlook - 31 Oct - 4 Nov 2011 ***Update***
10 October 2011
The third Black Sea Commission (BSC) Scientific & Final UP-GRADE BS-SCENE EC Project Conference ...
» [Read more](#)

Training Workshop - 28th February - 4th March 2011
6 February 2011
The coming Training Workshop will take place at the IODE programme office in Ostend - Belgium. The Workshop ...
» [Read more](#)

» [More news](#)

mozilla Firefox

Extranet page:



Deliverable 5-2: Upgrading and provision of the online Black Sea EDMED, EDMERP, CSR and EDMO V1 meta-databases

Screenshots show examples of the interfaces.

Marine Environmental Datasets (EDMED): Search and Results

Marine Environmental Datasets — Black Sea SCENE Web Application - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Marine Environmental Datasets — Black Sea SCENE

subsite.blackseascene.net/blackseascene/edmed.jsp

Back to portal

Marine Environmental Datasets

Map Tools

Lon: 30.8 Lat: 40.8

Layer Selection

Default Base Map

Search By

Title:

Time Period, From:

Time Period, To:

Centre:

Country:

Bulgaria

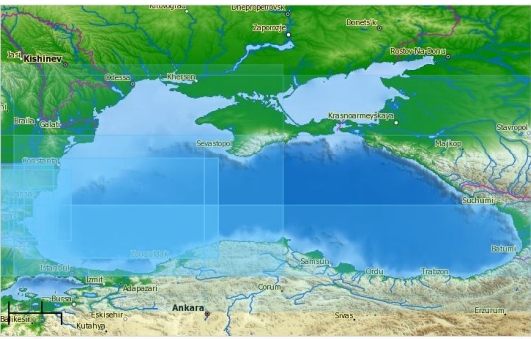
Originator:

Originator Country:

Sea Area:

Parameter:

Instrument:



Prev Set Next Set Per Page: 5 10 20 50 Found: 30 Result page: 1 2 3

Title	Begin	End	Centre	Country
Multi-parametric Meteorological and Oceanographic Data Set for Bulgarian coastal zone	2006		Bulgarian National Oceanographic Data Centre (BOODC), Institute of Oceanology	Bulgaria
Cetaceans Data-set	1992	2002	Institute of Fishery Resources (IFR)	Bulgaria
Western Black Sea Phytoplankton Data Set (1997 onwards)	1997		Bulgarian National Oceanographic Data Centre (BOODC), Institute of Oceanology	Bulgaria

mozilla Firefox

Marine Environmental Datasets (EDMED): Detail

Marine Environmental Datasets — Black Sea SCENE Web Application - Mozilla Firefox

subsite.blackseascene.net/blackseascene/edmed.jsp

Marine Environmental Datasets

Map Tools

Layer Selection

Default Base Map

Search By

Title:

Time Period, From:

Time Period, To:

Centre:

Country:

Bulgaria

Originator:

Originator Country:

Sea Area:

Parameter:

Instrument:

Project:

Clear All

Totals

Records: 665

mosilla Firefox

Marine Environmental Dataset Details

Dataset Name: Multi-parametric Meteorological and Oceanographic Data Set for Bulgarian coastal zone

Data Centre: Bulgarian National Oceanographic Data Centre(BGODC), Institute of Oceanology, Bulgaria

Contact Person: Dr. Atanas Palazov, Bulgarian National Oceanographic Data Centre(BGODC), Institute of Oceanology, Bulgaria

Phone: +359 52 370 486

Fax: +359 52 370 483

E-mail: palazov@io-bas.bg

Dataset Originator(s): Bulgarian National Oceanographic Data Centre(BGODC), Institute of Oceanology, Bulgaria

Abstract: The system intends to provide both real-time information and operational forecasts of weather and sea state for the Bulgarian coastal areas. Weather and oceanographic station will be installed in crucial points along the coast. The implementation of this task has initiated with launch of the Galata station located off of the cape Galata near Varna on the wellhead development platform. In the future identical stations will be installed in the major Bulgarian ports. The in-situ data, together with satellite data and meteorological forecasts will be used to produce operational forecast for the region. Currently, the system is extended on three sites: Galata platform, Petresco shore control centre-PSCC and the Institute of Oceanology Operational Data Centre-IO-ODC. To transfer data between these three sites, a communication system is developed, which consists of radio communication between platform and PSCC and Internet connection between PSCC and IO-ODC. The raw data are stored in the IO-ODC.

Marine Environmental Research Projects (EDMERP): Search and Results

Marine Environmental Research Projects — Black...

Back to portal

Black Sea SCENE

Marine Environmental Research Projects

Search By

Name:

Begin:

End:

Coordinator:

Country:

Partner:

Partner Country:

Sea Area:

Data Theme:

Clear All

Result page: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38

Title	Acronym	Begin	End	Coordinator	Country
Review of Environmental Projects of the Caspian Sea for the Planning of Future Activities		1998-03-01	1999-09-30	Institute of Marine Sciences, Middle East Technical University	Turkey
Development of Black Sea Integrated Coastal and Shelf Zone Monitoring and Modeling (INCOM) Program Science Plan	INCOM	1999-01-01	2000-10-31	Institute of Marine Sciences, Middle East Technical University	Turkey
Black Sea Ecosystem Processes And Forecasting / Operational Database Management System	ODBMS Black Sea	1999-01-01	2003-03-31	Institute of Marine Sciences, Middle East Technical University	Turkey
Black Sea Global Ocean Observing System	Black Sea GOOS	2001-06-06	2010-12-01	Marine Hydrophysical Institute	Ukraine
The Influence of atmospheric Saharan dust on phytoplankton dynamics in Eastern Mediterranean		2001-01-01	2003-12-01	Institute of Marine Sciences, Middle East Technical University	Turkey
Determination of the sedimentological mineralogical and geochemical properties of the atmospheric dust of Northeastern Mediterranean		2001-05-01	2004-05-01	Institute of Marine Sciences, Middle East Technical University	Turkey
Determination of pigment markers of the phytoplankton composition in the Northeastern Mediterranean		2001-06-01	2003-12-01	Institute of Marine Sciences, Middle East Technical University	Turkey
Evaluation of biogeochemical impact of African dust deposition to the East Mediterranean basin by combining ground based and satellite measurements		2001-01-01	2002-02-01	Institute of Marine Sciences, Middle East Technical University	Turkey

Marine Environmental Research Projects (EDMERP): Detail

Marine Environmental Research Projects — Black...





[Back to portal](#)

Marine Environmental Research Projects

Search By

Name:

Begin:

End:

Coordinator:

Country:

Partner:

Partner Country:

Sea Area:

Data Theme:

Marine Environmental Research Project Details [Back](#)

Project Name: Black Sea Global Ocean Observing System
 Acronym: Black Sea GOOS
 Associated: EURO GOOS
 Programme:
 Project Coordinator: Marine Hydrophysical Institute, Ukraine
 Contact Person: VALERY N. EREMEEV, Marine Hydrophysical Institute, Ukraine
 Phone: 380 692 54 02 52
 Fax: 380 692 55 42 53
 E-mail: eremeev@alpha.mhi.iuf.net
 Project Partners: Institute of Biology of the Southern Seas, NAS of Ukraine, Ukraine; Marine branch of Ukrainian Hydrometeorological Institute, Ukraine; Experimental Branch of Marine Hydrophysical Institute, Ukraine

Abstract: The Black Sea GOOS is a local Association formed by the Black Sea riparian countries in order to foster Operational Oceanography in the region and set up links with other regional and global organizations (with similar objectives). The Major Aims and Objectives of the Black Sea GOOS are:
 - To contribute to international planning and implementation of the GOOS and to promote it at national, regional and global level.
 - To identify regional priorities for operational oceanography.
 - To develop capacity of the regional countries and promote the level to sustain GOOS activities.
 - To provide high quality data and time series, for a better understanding of, the Black Sea ecosystem.
 - To assess the economic and social benefits achieved by operational oceanography. Black Sea GOOS activities will be designed to foster operational oceanography in the Black Sea basin collaborate with and maximise the benefits from existing activities of EuroGOOS and Med-GOOS, promoting

Marine Organisations (EDMO): Search and Results

Marine Organisations — Black Sea SCENE Web A...





[Back to portal](#)

Marine Organisations

Map Tools

Lon: 41.8 Lat: 46.5

Layer Selection

Default Base Map

No overlay

Spatial Search

(Country's EMZ)

Search By

Name:

City:

Country:



Cruise Summary Reports (CSR): Search

CSR - BlackSeaSCENE

Welcome to the Cruise Summary Reports

Search

Free search:

Country of ship:

Project:

Cruise name/nr:

Discipline:

Ports:

Country of institute:

Date (yyyy-mm-dd) from: to:

Ship(s):

Oceans/Sea area(s):

Data type(s):

Institute(s):

© Powered by SeaDataNet

[Search](#) [Reset](#)

Cruise Summary Reports (CSR): Results

CSR - BlackSeaSCENE

Welcome to the Cruise Summary Reports

Search results

[Refine query](#) | [New query](#) | Found 90 | Show (1-20) | [Previous](#) | [Next 20](#) | 20 50 100 records [Go](#)

Platform/Ship Name	Country of ship	Cruise name	From	To	Show
Steaua de Mare	Romania	PN08102009	2009-10-08	2009-10-10	Show
Steaua de Mare	Romania	PN15092009	2009-09-15	2009-09-16	Show
Steaua de Mare	Romania	POL17072009	2009-07-17	2009-07-21	Show
Steaua de Mare	Romania	PN06052009	2009-05-06	2009-05-09	Show
Steaua de Mare	Romania	PN15062009	2009-06-15	2009-06-17	Show
Steaua de Mare	Romania	POL230808	2008-08-23	2008-08-25	Show
Steaua de Mare	Romania	POL290908	2008-09-29	2008-09-30	Show
Steaua de Mare	Romania	POL-2605	2008-08-20	2008-08-22	Show
Steaua de Mare	Romania	POL230708	2008-07-23	2008-07-24	Show
Steaua de Mare	Romania	POL210708	2008-07-21	2008-07-22	Show
Steaua de Mare	Romania	POL140608	2008-06-14	2008-06-15	Show
Steaua de Mare	Romania	POL100508	2008-05-10	2008-05-12	Show

Cruise Summary Reports (CSR): Detail

CSR - BlackSeaSCENE



Back to portal

Welcome to the Cruise Summary Reports

Details

| Refine query | New query | Results | Found 90 | Show 1 | Previous | Next

Details of PN08102009 (BSH20103102)

General Information				
Platform/Ship	Steaua de Mare			
Cruise name	PN08102009			
Cruise begin	2009-10-08			
Cruise end	2009-10-10			
Port of departure	Navodari			
Port of return	Navodari			
Chief Scientist(s)	Aurel Cristea - National Institute for Marine Research and Development Grigore Antipa			
Responsible Laboratory	National Institute for Marine Research and Development Grigore Antipa			
Country	Romania			
Location				
General Ocean Areas	Black Sea			
Marsden squares (S,N,E,W)	178 (40.0, 50.0, 20.0, 30.0)			
	South	West	North	East
Bounding Box(es)	40	20	50	30

DQC application TUV: Statistical filter for outliers

Data analysis - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Data analysis

ubss-tuv.com/outliers.jsp



Back to portal

Home > Data quality analysis > Outliers

Data quality analysis

Annotation

As part of NAS of Black Sea SCENE, the team from TU-Varna (BG) develops program- and web-based procedures for data quality analysis.

Collected data is subjected to statistical procedures in order to study how disturbances in the measurement process influence the quality of information.

Outliers are identified that are not representative for the analyzed object/process. Statistical procedures analyze two types of data:

- 1) multiple measurements of 1-D variables that are not correlated with other variables;
- 2) measurements of correlated parameters, between which linear dependence exists.

This web page allows project partners to access to the statistical procedures and test data for outliers depending on the type of measurements.

Through the user-friendly interface, users can send data files and receive results quickly in final txt files and/or on their web-mail. They can also receive help information regarding the structure of data files, as well as for the statistical procedures executed.

In case users do not enter e-mail address, the results of the analysis shall be visualized on the screen only.

Back

- 1-D txt
- 1-D csv
- 1-D xls
- 1-D odv
- Multi-D txt
- Multi-D csv
- Multi-D xls
- Multi-D odv

mozilla Firefox

Deliverable 5-3: Upgrading and provision of the online Black Sea Scientists, Publications and Socio-economic meta-databases:

All services are available from the UBSS website. Below some screenshots are provided to illustrate the developed interfaces.

BSNN Legislative and Socio Economic Data (SED): Overview of documents

The screenshot displays a web browser window with the address bar showing "Upgrade Black Sea SCENE — Black Sea Informati...". The website has a blue header with three tabs: "Introduction", "Black Sea Information" (selected), and "News & References". Below the header are three images: a Black Sea SCENE logo over a wave, a flock of birds in flight, and a person working with a net. A "Back to portal" button is visible in the bottom right of the image area.

The main content area is titled "Socio-economic data" with a dropdown arrow. A sidebar on the left lists various data categories: Fish catch, Population density, Regional GDP, Pollution prevention, Statistical organisations: Links, Land use, Average population in Black Sea regions, Water statistics, Bulgaria, Area of Black Sea regions, and Downloadable data. Below this is a "Legal framework" section with a search bar and a "Black Sea SCENE" logo.

The main content area shows the "European legislation" section, which includes a breadcrumb trail: "Home > Black Sea Information > Legal framework". The section is divided into "Environmental protection" and "Regulations". Under "Environmental protection", there are "Directives" and "Regulations" listed, including Council Directive 79/409/EEC of 2 April 1979 on the conservation of wild birds, Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora, Directive 2008/56/EC of the European Parliament and of the Council of 17 June 2008 establishing a framework for community action in the field of marine environmental policy (Marine Strategy Framework Directive), Council Regulation (EC) No 708/2007 of 11 June 2007 concerning use of alien and locally absent species in aquaculture, and Commission Regulation (EC) No 535/2008 of 13 June 2008 laying down detailed rules for the implementation of Council Regulation (EC) No 708/2007 concerning use of alien and locally

BSNN Socio Economic Data (SED): View of statistics



Black Sea Scientists: Search and Results (RIHMI-WDC)

BlackSeaScene - Mozilla Firefox

File Edit View History Bookmarks Tools Help

BlackSeaScene

bssupgrade.oceaninfo.ru/scientists/index.jsp?action=list&page=8

Manual Summary

Back to portal

Home > Scientists

Scientists

Please, select the scientist you want to view
Sort by clicking column heading

Found: 666 Page: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 ...

	Name	Organisation	Country
71	Besiktepe Sengul	Institute of Marine Sciences, Middle East Technical University	Turkey
72	Bilanchyn Yaroslav	Odessa National I.I.Mechnikov University	Ukraine
73	Bilashvili Kakhaber	Iv.Javakishvili Tbilisi State University, Centre of Relations with UNESCO	Georgia
74	Bilgin Sabri	Canakkale Onsekiz Mart University- Fisheries Faculty	Turkey
75	BILOGUROVA Iuliia	Institute of Biology of the Southern Seas, NAS of Ukraine	Ukraine
76	Binget Ferit	Institute of Marine Sciences, Middle East Technical University	Turkey
77	Bircan Recep	Sinop University, Fisheries Faculty	Turkey
78	Birinci Ozdemir Zekiye	Sinop University, Fisheries Faculty	Turkey
79	Blinkov Viktor A.	Marine Hydrophysical Institute	Ukraine
80	Boborykina Olga	Taurida V.I. Vernadsky National University	Ukraine

Display 10 records per page

Create date: 2007-02-21. Number of views: 96930, today: 216

Workplace developed by National Oceanographic Data Centre, RIHMI-WDC.
© 2005-2011 RIHMI-WDC. All rights reserved.
Technical support: vjaz@meteo.ru

mozilla Firefox

Black Sea Scientists: Details (RIHMI-WDC)

BlackSeaScene - Mozilla Firefox

File Edit View History Bookmarks Tools Help

BlackSeaScene

bssupgrade.oceaninfo.ru/scientists/index.jsp?action=view&scientistid=5757

Manual Summary

Back to portal

Editing
List
View
Add
Edit
Help

Search by:
Name:
Alternative name(spelling):
Country:
Language:
Keyword:
Search

Home > Scientists > View details: Bingel Ferit

Scientists

Information on the selected scientist

Name	Ferit
Last Name	Bingel
Country	Turkey
Citizenship	Turkey
Language	German, English, Turkish
Organization	Institute of Marine Sciences, Middle East Technical University
Position	Professor
Birth date	11 January 1946
Degree	PhD
Education	M.S. Kiel University, Germany Ph.D. Kiel University, Germany
Scientist publications number	32
Address	P.O. Box 28, Erdemli, 33731, Mersin, Turkey
Email	bingel@ims.metu.edu.tr
Phone	+90 (324) 5212406
Alternative Phone	+90 (324) 5212150
Fax	+90 (324) 5212327
Keywords	Fish, fish stocks, biodiversity, fish stock assessment, fisheries acoustics
Insert date	2007-06-19 00:00:00.0
Update date	2007-06-19 00:00:00.0

Edit

Create date: 2007-02-21. Number of views: 96931, today: 217

Workplace developed by [National Oceanographic Data Centre, RIHMI-WDC](#).
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TechnicalSupport@oceaninfo.ru

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Bibliography: Search and Results (RIHMI-WDC)

BlackSeaScene



Manual Summary

Back to portal

Editing

List

View

Add

Edit

Help

Home > Bibliography

Bibliography

Please, select the document you want to view
Sort by clicking column heading

Found: 2802 Page: 1 2 3 4 5 6 7 8 9 ...

	Title	Download	Publish Date	Language	Country
1	50 questions about dolphins		01/01/1975		Georgia
2	3-5 Aralık 1994 tarihleri arasında Trabzon kıyılarında görülen dalgalar ve özellikleri.		26/04/1995	Turkish	Turkey
3	İz elementlerden bakır ve çinko'nun gökkuşağı alabalığının (Onchorhynchus mykiss W., 1972) dokusundaki birikimi ve letal toksik değerlerinin saptanması (Accumulation of the heavy metals copper and zinc in tissues of Rainbow Trout (Onchorhynchus mykiss W., 1972) and evaluation of lethal acute toxicity values)		01/01/2003	Turkish	Turkey
4	İstanbul Boğazi Karadeniz girişi Ostrakod (Crustacea) Faunası ve Zoocoğrafyası. Zoogeography and fauna of the freshwater Ostracod (Crustacea) fauna in the Black Sea inlet of the Bosphorus.		01/01/1992	Turkish	Turkey
5	İnebolu-Abana (Batı Karadeniz) kıyı şeridinde örneklenen Hippocampus guttulatus'da dalgalanan asimetri (Fa) değerleri. Fluctuating asymmetry profiles of Hippocampus guttulatus from İnebolu-Abana (West Blacksea) Shoreline.		01/01/2007	Turkish	Turkey
6	İki tekne ile çekilen orta su trölu ve gırgır avcılığının su ürünleri stoklarının korunması ve av verimi açısından karşılaştırmalı olarak araştırılması		05/09/2005	Turkish	Turkey

Black Sea article publications (BENA)

Black Sea SCENE data & information infrastructure - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Black Sea SCENE data & information infrastructure

www.tetthe.gr/BSS_project/index.php



Black Sea SCENE data & information infrastructure

The UBSS project <http://www.blackseascene.net> is providing access to a wide set of data and information, enhancing the vigorously and seamless growing interest in the area of the Black Sea. The overall scope of the website is to offer a rostrum for academics and researchers, able to enhance the produced knowledge and contribute to the common benefit of the region stakeholders. In this e-library, which will constantly and thoroughly be updated, you may find (a) scientific articles published in the Journal of Environmental Protection and Ecology -which has been recognized and accepted by THOMPSON Scientific and Elsevier Abstracts: Database, EMBiology and SCOPUS-, and (b) fully accepted presentations in conferences organized by the Balkan Environmental Association- (B.EN.A.), Black Sea NGO Network (B.S.N.N.), Black Sea Commission Secretariat (B.S.C.S) and IO BAS.

Latest articles:

1	report on the state of the black sea marine and coastal environment in 2010	2.23 MB
2	report on the state of the black sea marine and coastal environment in 2010	2.23 MB
3	coastal lakes of the black seay	434.33 KB
4	fishing vessel monitoring system (vms): application and challenges in bulgarian black sea coastal waters8 case	620.97 KB
5	characteristics of freshwater fish population in the danube river near braila within the period 2006-2008 case	645.15 KB

To view all articles press here...

Get involved!! **FORUM**

mozilla Firefox

Deliverable 5-4: Upgrading of the Common Data Index (CDI) system to SeaDataNet V1 level:

Below some screenshots are given of the UBSS CDI interface.

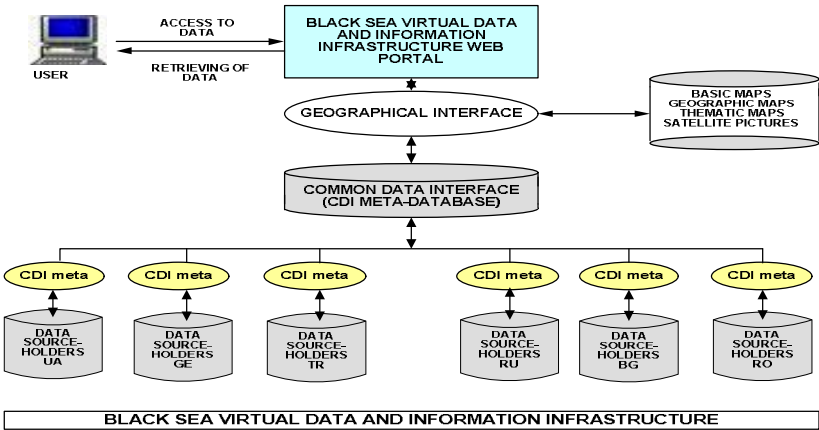


Figure 1: Search the CDI database

Blackseascene Common Data Index (CDI) V2 - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Blackseascene Common Data Index (CDI) V2

www.blackseascene.net/v_cdi_v2/browse_Step.asp

Back to portal

Cart: 0 Dataset(s) Proceed to checkout Reset basket Export Store query Summary Show on map ?

Reset all steps

Search by:

Geographical Box

Time period

Measuring area type

point (157242)

surface (431)

Parameter categories

Water column temperature and salinity (126969)

Dissolved gases (33659)

Nutrients (25468)

Carbon, nitrogen and phosphorus (24907)

Administration and dimensions (23676)

Disciplines

Physical oceanography (127518)

Chemical oceanography (50769)

Administration and dimensions (23676)

Biological oceanography (6039)

Environment (4618)

Instrument / gear type

thermistor chains (70574)

discrete water samplers (50930)

CTD (18023)

bathymographs (2830)

spectrophotometers (2806)

Add to basket 20 50 100 Records Go

Found 157673 | Show (1-20) | Previous | Next 20

#	Data set name	Variables measured	Instrument / gear type	Show
biota_68521	Biological oceanography > Zooplankton > Biota abundance, biomass and diversity > Rock and sediment biota Marine geology > Rock and sediment biota Terrestrial > Rock and sediment biota	optical microscopes		
biota_68511	Biological oceanography > Zooplankton > Biota abundance, biomass and diversity > Rock and sediment biota Marine geology > Rock and sediment biota Terrestrial > Rock and sediment biota	optical microscopes		
biota_68507	Biological oceanography > Zooplankton > Biota abundance, biomass and diversity > Rock and sediment biota Marine geology > Rock and sediment biota Terrestrial > Rock and sediment biota	optical microscopes		
biota_68505	Biological oceanography > Zooplankton > Biota abundance, biomass and diversity > Rock and sediment biota Marine geology > Rock and sediment biota Terrestrial > Rock and sediment biota	optical microscopes		
biota_68503	Biological oceanography > Zooplankton > Biota abundance, biomass and diversity	optical microscopes		

mozilla Firefox

Figure 2: Display results on map

Blackseascene Common Data Index (CDI) V2 - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Blackseascene Common Data Index (CDI) V2

www.blackseascene.net/v_cdi_v2/browse_Step.asp

Black Sea SCENE Common Data Index (CDI) V2

Back to portal

Cart: 0 Dataset(s) Proceed to checkout Reset basket Export Store query Summary Hide map ?

Reset all steps

TOOLS

Enlarge Position Index

LAYER CONTROL Expand Add layer

☐ CDI entry Points
☐ CDI entry Tracks
☐ CDI entry Areas

☐ Grid Lines
☐ Regional sea
☐ Regional sea labels
☐ Main sea
☐ Main sea labels
☒ Bathymetry

☒ Display all selected records
☐ Only selected records in results list

Zoom to selected

Search by:

Add to basket 20 50 100 Records Go

Found 157673 | Show (1-20) | Previous | Next 20

Geographical Box

Time period

Measuring area type

point (157242)
surface (431)

Parameter categories

Water column temperature (126969)
and salinity
Dissolved gases (33659)
Nutrients (25468)
Carbon, nitrogen and phosphorus (24907)

#	Data set name	Variables measured	Instrument / gear type	Show
☐	biota_68521	Biological oceanography > Zooplankton > Biota abundance, biomass and diversity > Rock and sediment biota Marine geology > Rock and sediment biota Terrestrial > Rock and sediment biota	optical microscopes	
☐	biota_68511	Biological oceanography > Zooplankton > Biota abundance, biomass and diversity > Rock and sediment biota Marine geology > Rock and sediment biota Terrestrial > Rock and sediment biota	optical microscopes	

mozilla Firefox

Figure 3: Add external WMS layer via “add layer” option

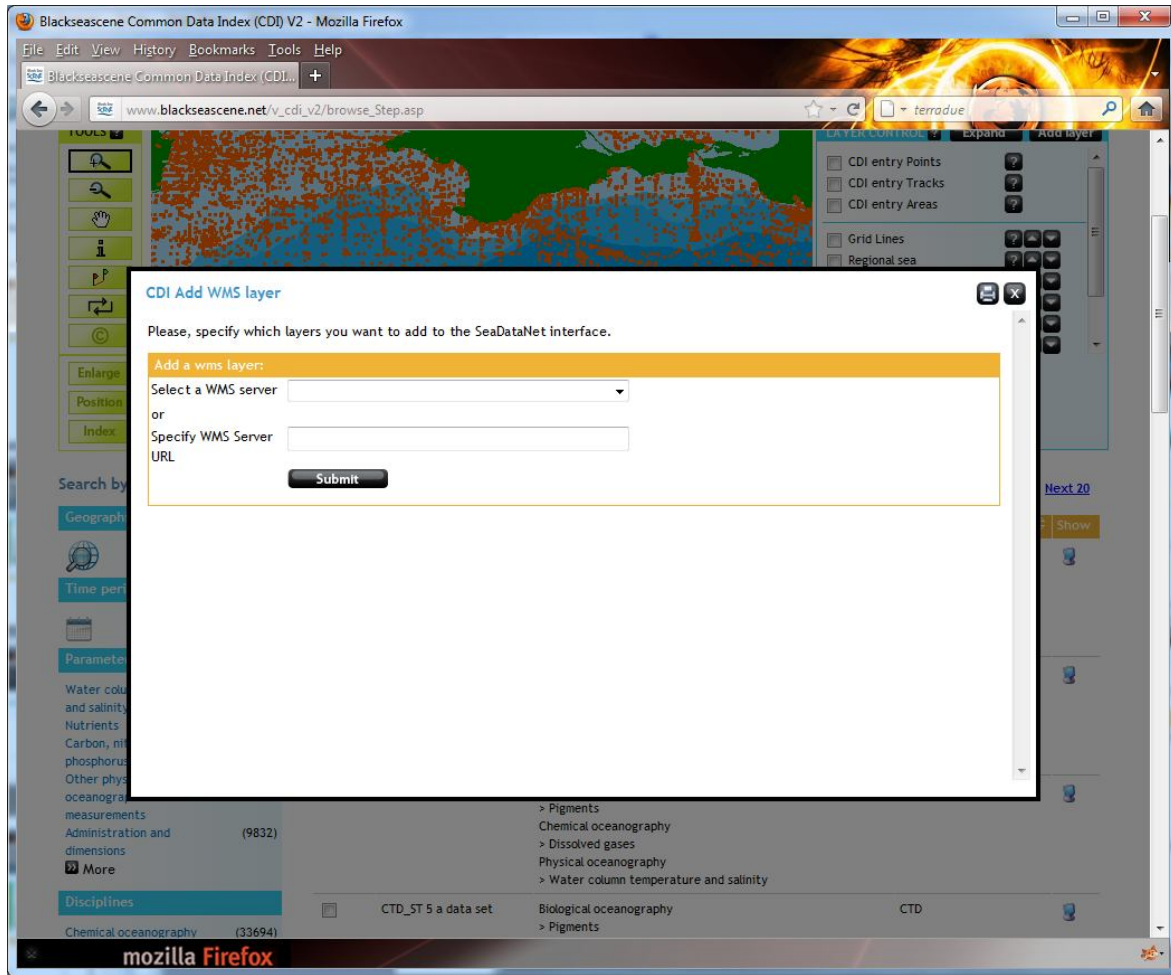


Figure 4: Display WMS layer

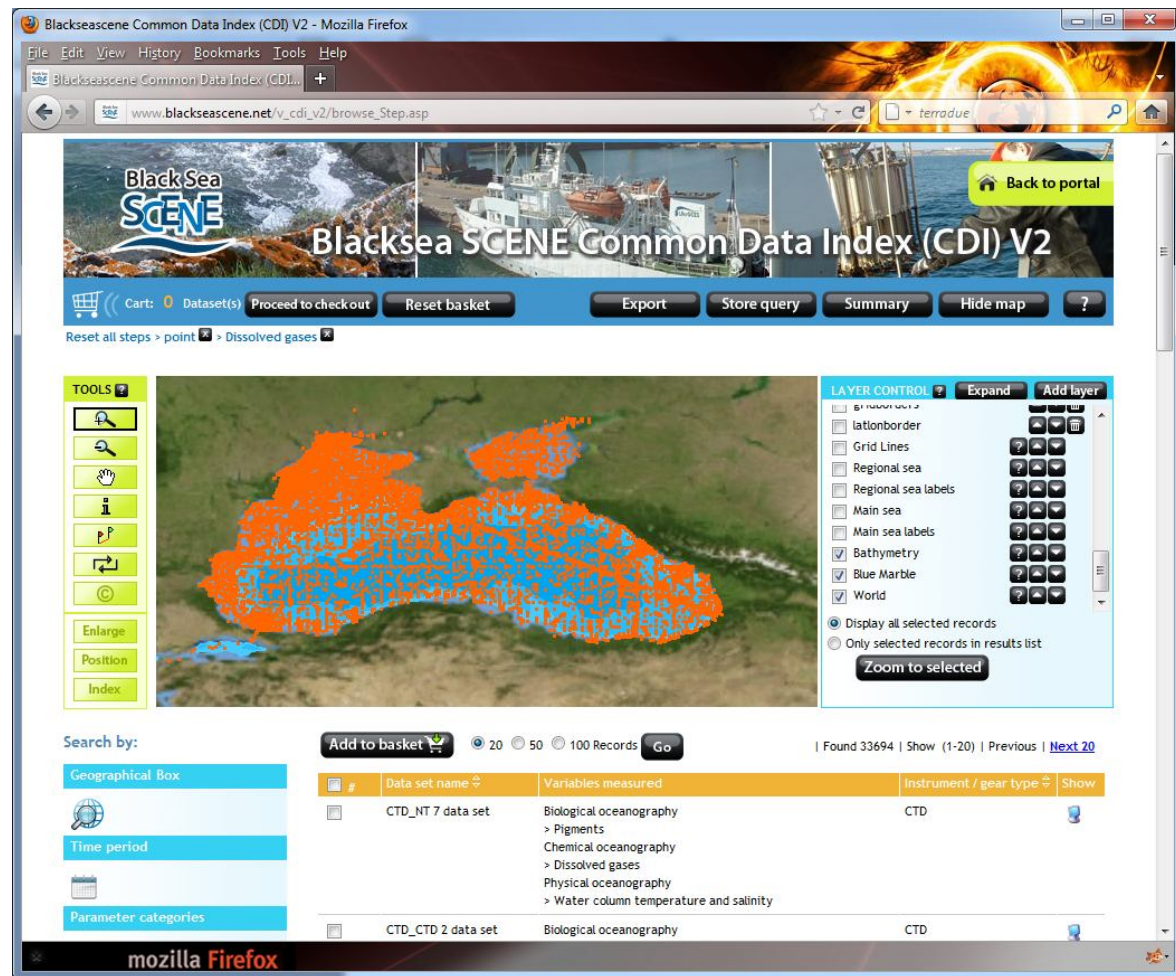


Figure 5: Show summary of search result

Blackseascene Common Data Index (CDI) V2 - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Blackseascene Common Data Index (CDI) V2

www.blackseascene.net/v_cdi_v2/browse_Step.asp

Back to portal

Blacksea SCENE Common Data Index (CDI) V2

Summary

PER CDI PARTNER	COUNTRY	DATASETS
Marine Hydrophysical Institute	Ukraine	86302
Southern Scientific Research Institute of Marine Fisheries and Oceanography	Ukraine	19159
P.P.Shirshov Institute of Oceanology, RAS	Russian Federation	15535
Ukrainian scientific center of Ecology of Sea (UkrSCES)	Ukraine	7955
All-Russia Research Institute of Hydrometeorological Information - World Data Centre (RIHMI-WDC) National Oceanographic Data Centre (NODC)	Russian Federation	7367
National Institute for Marine Research and Development "Grigore Antipa"	Romania	4254
Institute of Marine Sciences, Middle East Technical University	Turkey	3082
Odessa National I.I.Mechnikov University	Ukraine	2334
Permanent Secretariat Commission on the Protection of the Black Sea Against Pollution	Turkey	2021
Marine branch of Ukrainian Hydrometeorological Institute	Ukraine	1976
Institute of Biology of the Southern Seas, NAS of Ukraine	Ukraine	1865
Bulgarian National Oceanographic Data Centre (BGODC), Institute of Oceanology	Bulgaria	1489
Scientific - Research Firm "GAMMA"	Georgia	807
University of Mining and Geology - Saint Ivan Rilski	Bulgaria	726
Institute of Fishery Resources (IFR)	Bulgaria	667
Iv.Javakishvili Tbilisi State University, Centre of Relations with UNESCO Oceanological Research Centre and GeoDNA (UNESCO)	Georgia	464
Space Research Institute of RAS	Russian Federation	387

Environment (4618)

More

Instrument / gear type

thermistor chains	(70574)
discrete water samplers	(50930)
CTD	(18023)
bathythermographs	(2830)
spectrophotometers	(2806)

biota_68503

optical microscopes

Biological oceanography

Zooplankton

Biota abundance, biomass and diversity

mozilla Firefox

Figure 6: Display CDI record details for observation information



Figure 7: Create order of selected datasets

Blackseascene Common Data Index (CDI) V2 - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Blackseascene Common Data Index (CDI) V2

www.blackseascene.net/v_cdi_v2/browse_Step.asp

Back to portal

Shopping basket

Black Sea SCENE

Requesting Datasets

During this session you have selected the following data sets. You can shop for more or continue the ordering dialogue by submitting to finalize your order request and have it processed. When submitting you will have to log-in with your user registration details or register then first. Thereafter you can finalise your order request by deselect items, indicating which format type you require and whether you also want to include related publications (if available).

IMPORTANT NOTICE
 Downloading of data sets is only possible for registered users.
 Access to datasets might be restricted. In that case your request will be handled by the contact person of the SeadatanetNet Data Centre managing the specific datasets.
 You will be able to follow the progress of all your requests via your personal account in the Request Status Manager, using your user id - password.

Search for more Cancel request Submit request

If you would like to continue searching (to add more to your request list) click Search for more.
 If you would like to cancel your requests (to empty your request list) click Cancel.
 If you are satisfied with your request list then click on Submit order.

The number of data-requests per shopping session has a maximum of 500 datasets.

CDI-record id	Dataset Name	Status
1227392	CTD_Nesbur data set	unrestricted
1227395	CTD_Koketrys data set	unrestricted
1227397	CTD_Varna_bay data set	unrestricted

Water column temperature and salinity (26397) > Carbon, nitrogen and phosphorus
 > Dissolved gases
 Nutrients (25468) Physical oceanography
 Carbon, nitrogen and phosphorus (24907) > Water column temperature and salinity
 Administration and dimensions (18664) ☒ CTD_Albona data set Chemical oceanography CTD, spectrophotometers
 > Nutrients
 > Carbon, nitrogen and phosphorus
 > Dissolved gases

More

mozilla Firefox

Figure 8: Login to central SDN user register before sending in order of selected datasets

Blackseascene Common Data Index (CDI) V2 - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Blackseascene Common Data Index (CDI) V2

www.blackseascene.net/v_cdi_v2/browse_Step.asp

Back to portal

Blacksea SCENE Common Data Index (CDI) V2

Shopping basket

Enter your NetID and Password

For security reasons, please Log Out and Exit your web browser when you are done accessing services that require authentication!

NetID:

Password:

☐ Warn me before logging me into other sites.

LOGIN CLEAR



SeaDataNet

[I want to register](#) - [I forgot my password](#) - [I want to check/change my personal information](#)

Water column temperature and salinity (26397)		> Carbon, nitrogen and phosphorus	
Nutrients (25468)		> Dissolved gases	
Carbon, nitrogen and phosphorus (24907)		Physical oceanography	
Administration and dimensions (18664)		> Water column temperature and salinity	
More	☒ CTD_Abena data set	Chemical oceanography	CTD, spectrophotometers
		> Nutrients	
		> Carbon, nitrogen and phosphorus	
		> Dissolved gases	

mozilla Firefox

Figure 9: Confirm order of selected datasets

Blackseascene Common Data Index (CDI) V2 - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Blackseascene Common Data Index (CDI) V2

www.blackseascene.net/v_cdi_v2/browse_Step.asp

Back to portal

Blacksea SCENE Common Data Index (CDI) V2

Shopping basket

Confirmation of your request list

Organisation	MARIENE INFORMATIE SERVICE MARIS B.V.
Contact name	Mr Peter THIJSSSE
Contact email	peter@maris.nl
Address	Koningin Julianalaan 345 A
Zipcode	2273 JJ
City	Voorburg
Country	Netherlands
Telephone	
Role IDs	SDNR07;SDNR03
Role names	partner;Academic

Please motivate why you want to have access to these data sets and for what purpose.

Text 496 test

Water column temperature and salinity (26397)	> Carbon, nitrogen and phosphorus	
Nutrients (25468)	> Dissolved gases	
Carbon, nitrogen and phosphorus (24907)	Physical oceanography	
Administration and dimensions (18664)	> Water column temperature and salinity	
☒ CTD_Abena data set	Chemical oceanography	CTD, spectrophotometers
☐ More	> Nutrients	
	> Carbon, nitrogen and phosphorus	
	> Dissolved gases	

mozilla Firefox

Figure 10: User tracks order status via the Request Status Manager (Orange = pending, Green = ready for download, Red = rejected/denied)



Request Status Manager

Pan-European infrastructure for Ocean & Marine Data Management

SeaDataNet Overview of dataset requests and processing per SeaDataNet Data Centre

| FOUND 13 | CURRENT | PREVIOUS | NEXT

Data centre	Country	Approval pending	Ready for downloading	Downloaded	Access denied	All
Rijkswaterstaat Waterdienst	Netherlands			400		400
Karadeniz Technical University, Faculty of Marine Sciences	Turkey	20				20
National Environmental Research Institute, University of Aarhus, Department of Marine Ecology	Denmark			240		240
Iv Javakhiashvili Tbilisi State University, Centre of Relations with UNESCO Oceanological Research Ce	Georgia		20			20
Bulgarian National Oceanographic Data Centre (BGODC), Institute of Oceanology	Bulgaria	20	20			40
Southern Scientific Research Institute of Marine Fisheries and Oceanography	Ukraine			20		20
All-Russia Research Institute of Hydrometeorological Information - World Data Centre (RIHMI-WDC) Nat	Russian Federation			20		20
TNO Built Environment and Geosciences, Geological Survey of the Netherlands	Netherlands		5			5
NIOZ Royal Netherlands Institute for Sea Research	Netherlands			290	20	310
Swedish Meteorological and Hydrological Institute	Sweden			20		20
Hellenic Centre for Marine Research, Hellenic National Oceanographic Data Centre (HCMR/HNODC)	Greece			3		3
ENEA Special Project on Global and Mediterranean Climate - Marine Branch - La Spezia	Italy			106		106
British Oceanographic Data Centre	United Kingdom	40	20	103		163

mozilla Firefox

Figure 10: User views downloadable records (green status) via the Request Status Manager

SEADATANET RSM - Mozilla Firefox

File Edit View History Bookmarks Tools Help

seadatanet.maris2.nl/v_rsm/welcome.asp?userid=ptleaab

Request Status Manager Logout Help Home

Pan-European infrastructure for Ocean & Marine Data Management

SeaDataNet Overview of dataset requests and processing per SeaDataNet Data Centre

Download selected datasets in zip file 25 50 100 1000 RECORDS Go FOUND 20 | CURRENT | PREVIOUS | NEXT

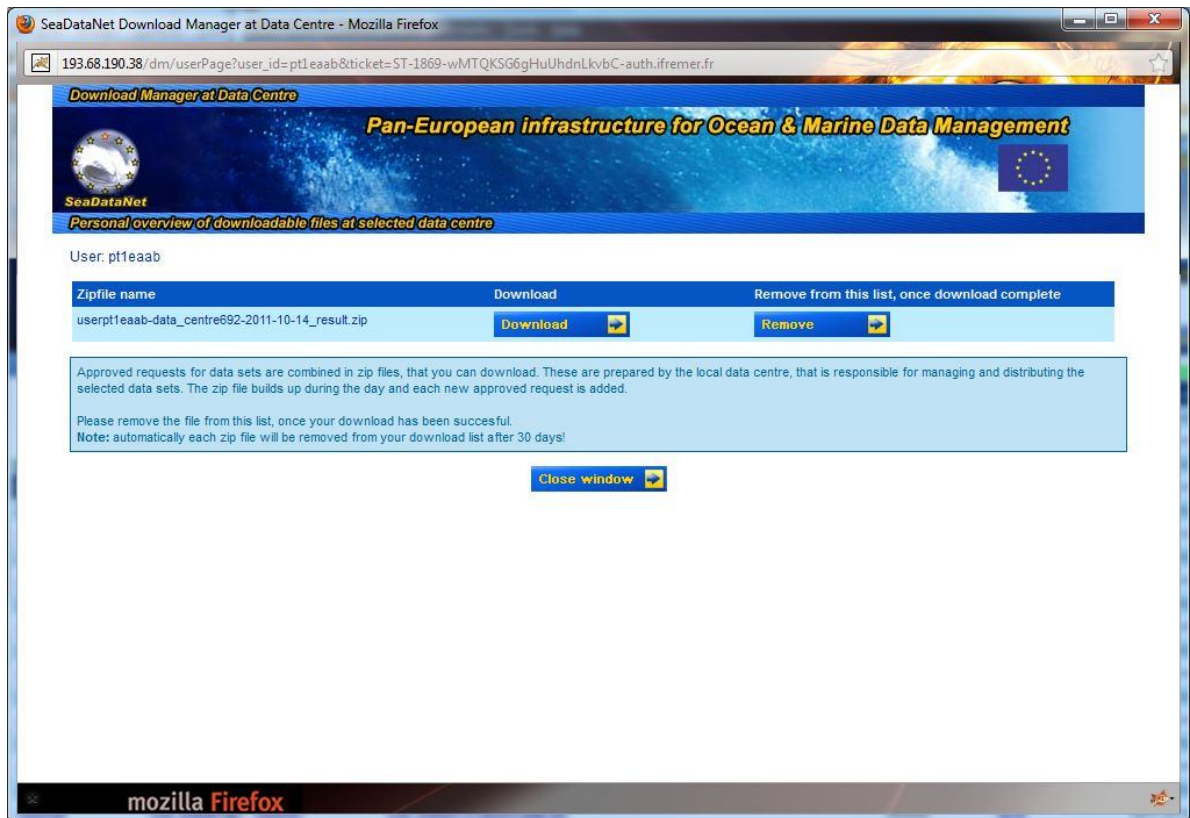
Bulgarian National Oceanographic Data Centre (BGODC), Institute of Oceanology Status: Ready for downloading

Dataset CDI-ID	Dataset name	Request-ID	Request-key	Request date	Last update	Format
1223888	CTD S-BG01-13 Intercalibration data set	660085	4016	2011-10-12	2011-10-14	ODV
1223886	CTD 303G data set	660084	4016	2011-10-12	2011-10-14	ODV
1223874	CTD S-BG01-04 (M204) data set	660083	4016	2011-10-12	2011-10-14	ODV
1223872	CTD S-BG01-03 (M203) data set	660082	4016	2011-10-12	2011-10-14	ODV
1223859	CTD 301G data set	660081	4016	2011-10-12	2011-10-14	ODV
1223853	CTD S-BG01-07 (M303) data set	660080	4016	2011-10-12	2011-10-14	ODV
1223852	CTD S-BG01-11 (M307) data set	660079	4016	2011-10-12	2011-10-14	ODV
1223829	CTD 303G data set	660078	4016	2011-10-12	2011-10-14	ODV
1223823	CTD S-BG01-01 (M201) data set	660077	4016	2011-10-12	2011-10-14	ODV
1223818	CTD S-BG01-04 (M204) data set	660076	4016	2011-10-12	2011-10-14	ODV
1223813	CTD S-BG01-13 Intercalibration data set	660075	4016	2011-10-12	2011-10-14	ODV
1223810	CTD S-BG01-03 (M203) data set	660074	4016	2011-10-12	2011-10-14	ODV
1223803	CTD 301G data set	660073	4016	2011-10-12	2011-10-14	ODV
1223799	CTD S-BG01-09 (M305) data set	660072	4016	2011-10-12	2011-10-14	ODV
1223798	CTD S-BG01-13 Intercalibration data set	660071	4016	2011-10-12	2011-10-14	ODV
1223796	CTD S-BG01-08 (M304) data set	660070	4016	2011-10-12	2011-10-14	ODV
1223793	CTD S-BG01-09 (M305) data set	660069	4016	2011-10-12	2011-10-14	ODV
1223791	CTD S-BG01-11 (M307) data set	660068	4016	2011-10-12	2011-10-14	ODV
1223777	CTD S-BG01-06 (M302) data set	660067	4016	2011-10-12	2011-10-14	ODV
1223773	CTD S-BG01-12 (M308) data set	660066	4016	2011-10-12	2011-10-14	ODV

Download selected datasets in zip file

mozilla Firefox

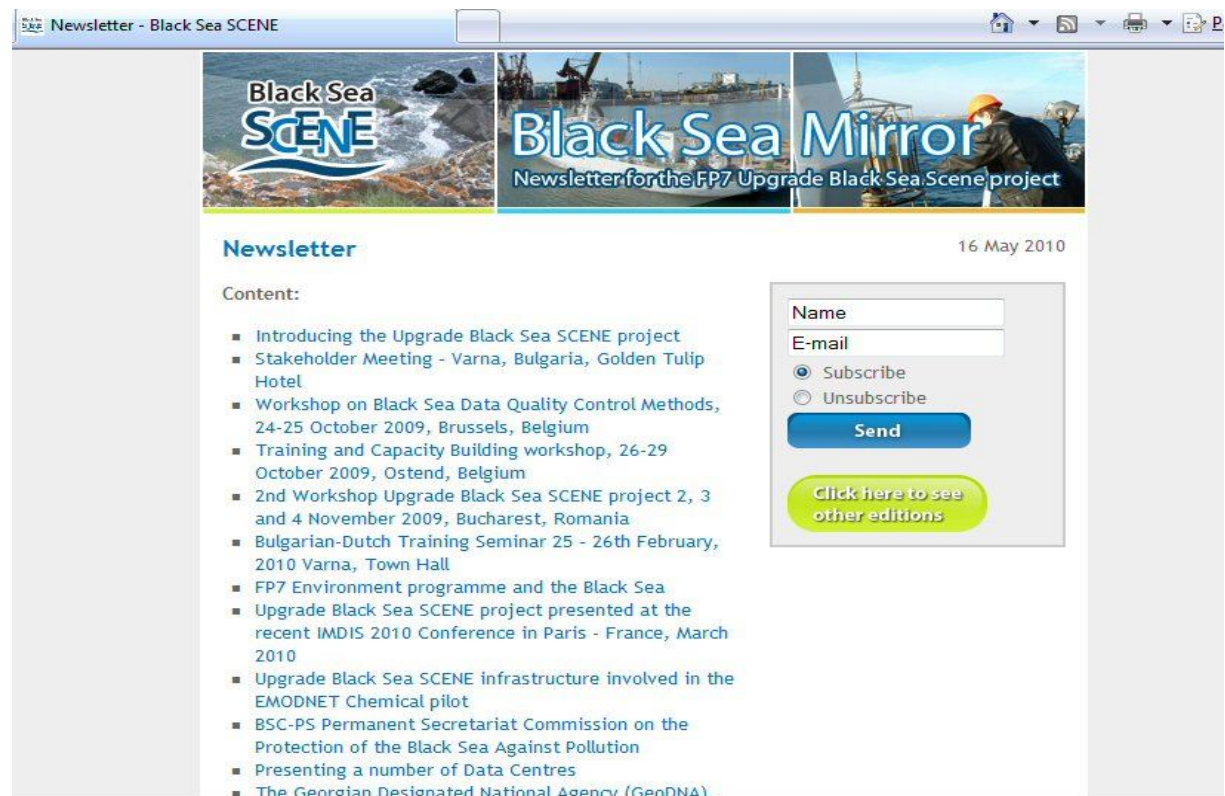
Figure 11: User downloads files per data center in a zipped file and uniform format (ODV)



UBSS Leaflet

[illegible]

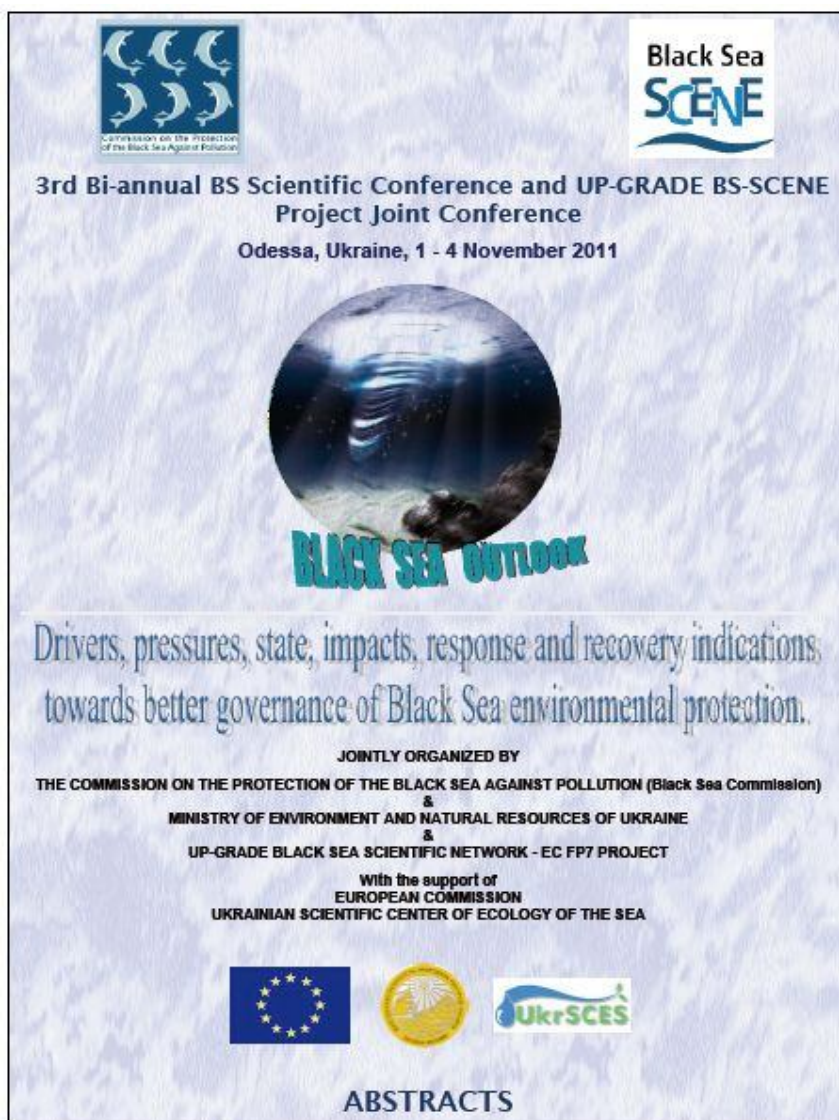
First issue of the UBSS electronic Newsletter:



Poster for Black Sea Outlook Conference - November 2011



Book of Abstracts of Black Sea Outlook Conference



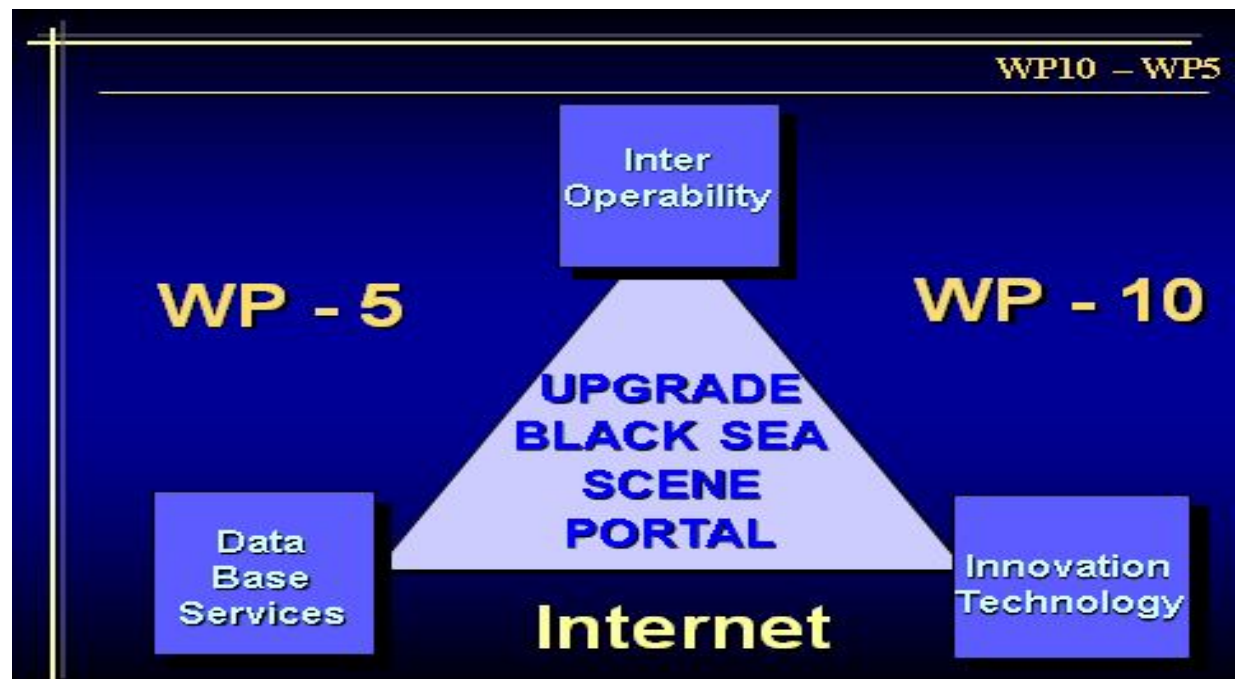
WP8: Operation Transnational Scientific Access Services of Black Sea partner's installations

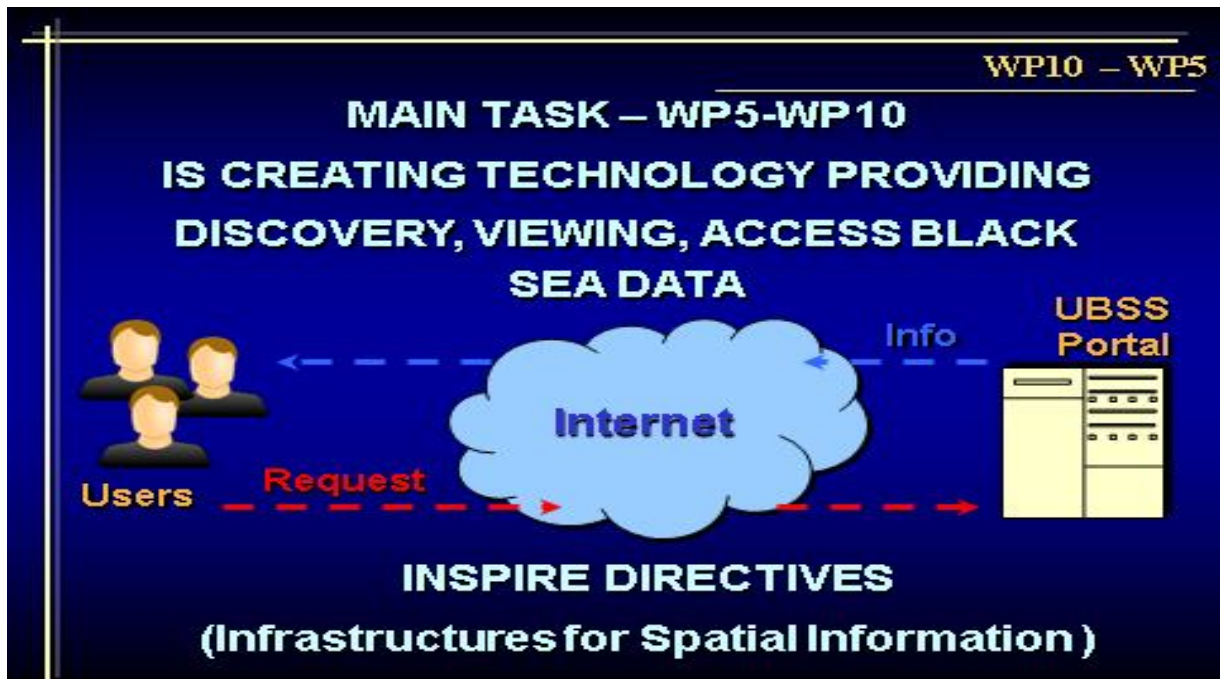
Partner	Country	Status (calculated)	Date CDI production operational since
IO-BAS	BG	in production*	Begin project
BSNN	BG	no CDI; different services	20100722
CLGE-BAS			20100921
(192)	BG	Hosted at NIMH	
IFR (191)	BG	in production	20100729
NIMH-BAS			20101206
(961)	BG	in production	
TUV	BG	no CDI; different services	20100716
UMG-GI	BG	in production	20110127
TSU	GE	in production*	Begin project
CMP	GE	Did not succeed	
GAMMA	GE	In production and upgrading	20100913
GIH-GAS	GE	in production*	20110627
GWMI	GE	in production*	20110627
IG-GAS	GE	in production*	20110627
BENA	GR	no CDI; different services	20101224
NIMRD	RO	in production	Begin project
DDBRA	RO	Hosted at NIMRD	20110531
GeoEcoMar	RU	Did not succeed	
CDNZ	RU	in production*	20101230
RNODC	RU	in production*	Begin project
IORAS	RU	in production*	Begin project
IEG-RAS	RU	Hosted at IORAS	20110620
IKI-RAS	RU	in production	20110311
IL-RAS	RU	Did not succeed	
SOI	RU	Via SIORAS	20110513
IMS-METU	TR	in production*	Begin project
AU-FAF	TR	in production*	20110316
BSCS	TR	in production	20101230
BSTU	TR	in production	20110330
DEU-IMST	TR	in production	20110401
IU-IMS	TR	in production	20110325
SNU-FF	TR	in production	20101021
MHI-MIST	UA	in production	Begin project
DHMO	UA	in production	20110630
IBSS	UA	in production	20100702
IGS	UA	in production	20111027
ONU	UA	In production and upgrading	20100806
TNU (2227)	UA	in production	20110406
UHI-MB	UA	in production	20110216
UkrSCES	UA	in production	20110126
USRIEP	UA	in production	20101230
YugNIRO	UA	in production	20110704

Table with start of Transnational Access Services

WP10: Developing new data visualization services

WP10 has a narrow relation with WP5:





EDMED interface supported with WMS

Marine Environmental Datasets — Black Sea SCENE Web Application - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Marine Environmental Datasets — Black ...

subsite.blackseascene.net/blackseascene/edmed.jsp

terradue

Marine Environmental Datasets

Map Tools

Lon: 39.6 Lat: 43.4

Layer Selection

Default Base Map

Search By

Title:

Time Period, From:

Time Period, To:

Centre:

Country:

Bulgaria

Originator:

Originator Country:

Sea Area:

Parameter:

Instrument:

Prev Sel Next Sel Per Page: 5 10 20 50 Found: 30

Title	Begin	End	Centre	Country
Multi-parametric Meteorological and Oceanographic Data Set for Bulgarian coastal zone	2006		Bulgarian National Oceanographic Data Centre(BGODC), Institute of Oceanology	Bulgaria
Cetaceans Data-set	1992	2002	Institute of Fishery Resources (IFR)	Bulgaria
Western Black Sea Phytoplankton Data Set (1997 onwards)	1997		Bulgarian National Oceanographic Data Centre(BGODC), Institute	Bulgaria

Result page: 1 2 3

mozilla Firefox

Interface for catalogues of map services

Black Sea SCENE Web Application - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Black Sea SCENE Web Application

subsite.blackseascene.net/blackseascene/atlas.html

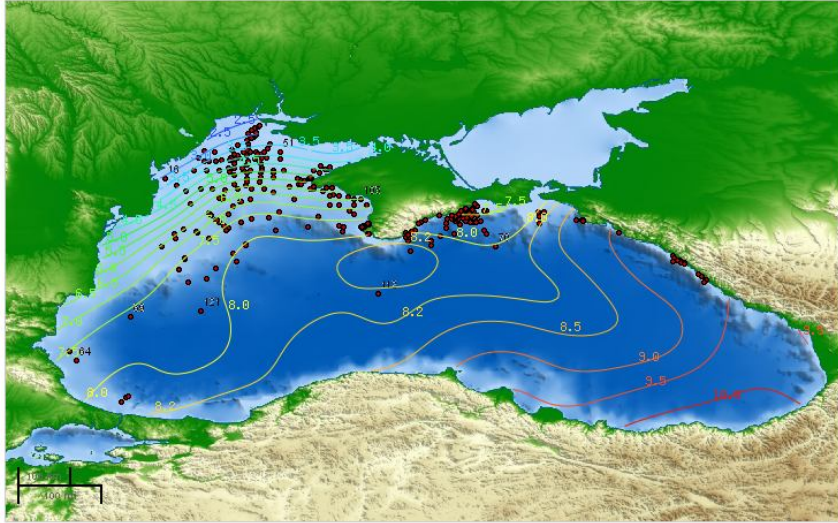
Map Catalogue

Map Tools

Lon: 41.6 Lat: 41.4

Layer Selection

- ☒ **NODC of Ukraine MapServer**
 - ☒ Temperature in January
- ☒ **IBSS WMS**
 - ☒ Akademik Kovalevskiy Cruise 117, 16/04/1990 - 07/06/1990, stations
 - ☒ Akademik Kovalevskiy Cruise 118, 25/06/1990 - 09/08/1990, stations
 - ☒ Akademik Kovalevskiy Cruise 119, 31/08/1990 - 20/10/1990, stations
 - ☐ Akademik Kovalevskiy Cruise 120, 18/05/1991 - 25/05/1991, stations
 - ☐ Phytoplankton total biomass at depth=0, February 1993
- ☒ **Black Sea SCENE WMS**
 - ☐ Cities
 - ☐ State Boundaries
 - ☐ Hydrography
 - ☒ Relief



Result page: 1

Title	Description	URL
Black Sea SCENE WMS		http://www.blackseascene.net/
Demis WMS	Web Map Server provided by Demis presented such geographic layers as Elevation, Hydrography, Cities, Roads and etc.	http://www.demis.nl/
IBSS WMS	This service is provided by Institute of Biology of the Southern Seas. Service provides some biological maps and measuring points.	http://www.ibss.iuf.net/
M.Nodia IG WMS	This service is provided by M. Nodia Institute of Geophysics of Georgia. Service provides forecast fields of temperature and salinity on different depths.	http://www.ig-geophysics.ge/

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