

BLACK SEA MNEMIOPSIS LEIDYI DATABASE (MLDB)

Current status overview

The prototype of the Black Sea Mnemiopsis leidyi Database (MLDB) was developed in 2008 within the EC 6th Framework Program Black Sea SCENE project by the

Institute of Biology of the Southern Seas, Ukraine, and
Institute of Marine Sciences Middle East Technical University, Turkey

with the support of OCEAN-UKRAINE, a joint Flemish-Ukrainian project supported by the Flemish Government - Department of Foreign Affairs.



Black Sea
SCENE

Hosted with the support of
[OceanUkraine project](#)



OCEAN-UKRAINE is a project
Supported by [the Flemish
Government - Department of
Foreign Affairs](#)

Leading data holders from the Black Sea countries under the umbrella of the Permanent Secretariat of the Black Sea Commission (BSC/PS) **on voluntarily** basis agreed to create and maintain joint Black Sea Mnemiopsis Data Base (ML-DB) based on this prototype.

3 workshops were organized during the period 2008 -2010 with the support of the BSC/PS.

Minutes of the workshops and documents are available at:

Workshop 2008 - <http://bscps.ma.cx:88/MLDB/Meeting200812.aspx>

Workshop 2009 - <http://bscps.ma.cx:88/MLDB/Meeting200909.aspx>

Workshop 2010 - <http://bscps.ma.cx:88/MLDB/Meeting201010.aspx>

Data submission guidelines and data usage policy are described in the document “The Principles for Creation and Procedures for Future Utilization of the Black Sea Mnemiopsis leidyi and Beroe ovata Data Base”. The latest version (December 15, 2010) agreed during MLDV workshop 2010 is available at MLDB website:

http://bscps.ma.cx:88/MLDB/Doc/Black%20Sea%20ML-BO-DB%20agreement_v_III.doc

Data submission guidelines and data usage policy main provisions:

- All metadata for any year will be freely available for any user through the M. leidyi Database web site.
- Each data contributor will provide its M. leidyi data older than 5 years (based on the sampling date) to the development team for inclusion into the MLDB. Unless otherwise is stated by the data contributor, the data older than 15 years will be freely accessible at the MLDB web site, whereas data from 5 to 15 years old will be accessible to all registered users, however usage of data will require permission from the corresponding data contributor.
- Data contributor are encouraged to provide their data to MLDB with no access restriction applied. All submitted data will be included in MLDB within two months after the submission.

During the Second MLDB workshop held in September 2009 in Istanbul, Turkey, the MLDB data policy was partly updated: it was decided to decrease the restricted period from 15 years to 10 years in order to make in this way the MLDB easier accessible for users.

Black Sea Mnemiopsis leidyi Database (MLDB)

Mnemiopsis leidyi Database
Supported by the The Commission on the Protection of the Black Sea Against Pollution

User: guest

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ID	Dataset	Station	Lat	Lon	Date	Time	Upper	Lower	Abundance	Units	Biomass	Units1
MSD 1	Bilm, 1991 June	95	29.2500	41.2500	1991.06.02	00:17:00	0	30	0.69	ind/m3	16.47	mg/m3
MSD 2	Bilm, 1991 June	87	29.2500	41.5000	1991.06.02	05:15:00	0	100	0.16	ind/m3	2.47	mg/m3
MSD 3	Bilm, 1991 June	72	29.2500	42.0000	1991.06.02	10:40:00	0	100	0	ind/m3	0	mg/m3
MSD 4	Bilm, 1991 June	95a	29.5667	41.2833	1991.06.02	02:20:00	0	20	0.52	ind/m3	7.15	mg/m3
MSD 5	Bilm, 1991 June	72a	29.7500	42.2500	1991.06.02	16:00:00	0	100	0	ind/m3	0	mg/m3

Search parameters
 In a dataset: Bilm, 1991 June
 Search for: Biomass
parameter's units:
Parameter's value: From... 0 To..... 0

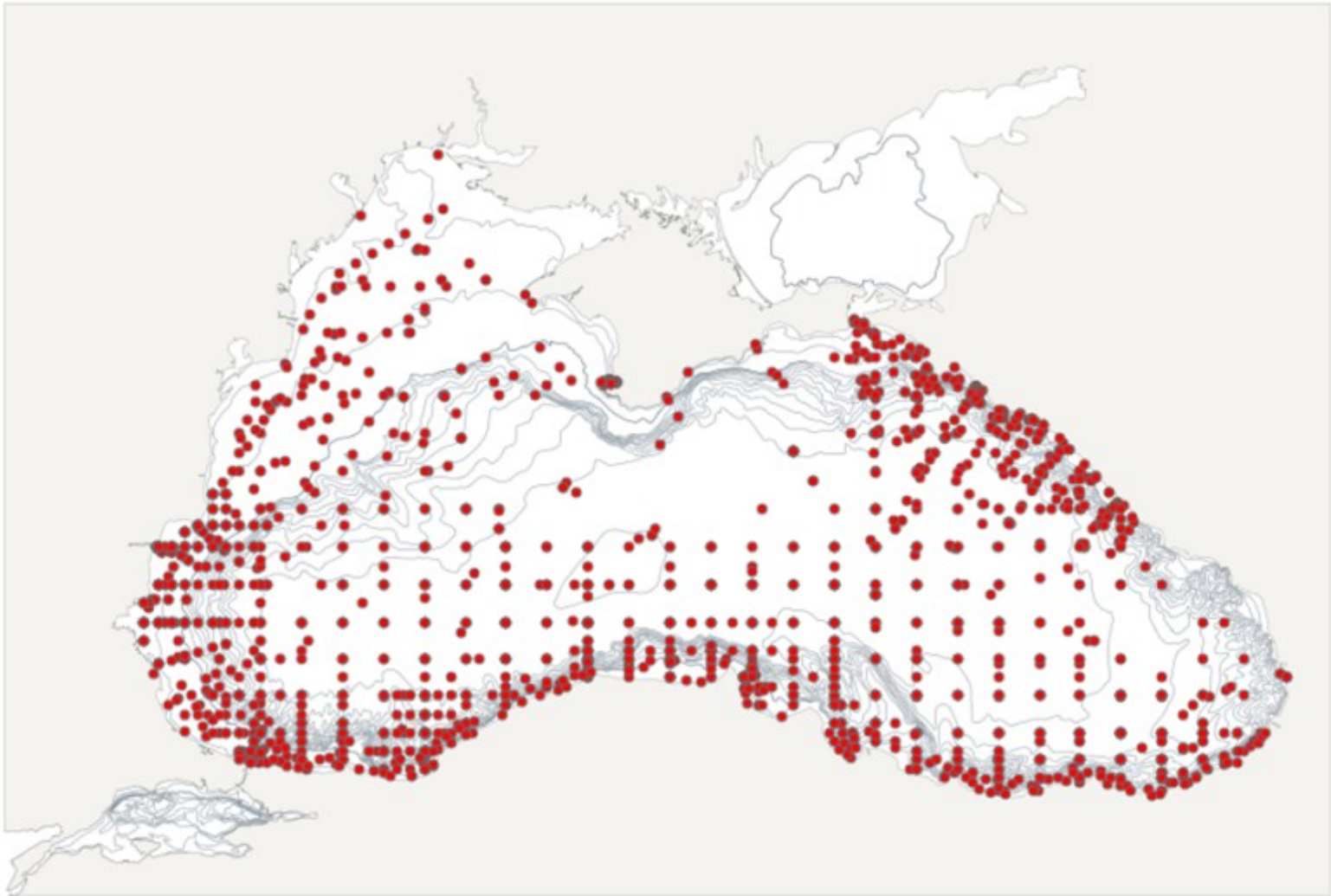
search in region
*coordinates are limited to Black Sea region - Latitude 40..48 and Longitude 27..42
Latitude to:
From To
Latitude from:
Search again

Should be available at <http://bscps.ma.cx:88/MLDB/>

Online database has primitive interface and very simple search and download open data features

Black Sea Mnemiopsis leidyi Database (MLDB)

	Country	Provider Name	Organization	Datasets	Stations	Samples	Samples with data	Samples with biomass	Samples with abundance
1	Bulgaria	Dr. L.Kamburska, K.Stefanova	IO BAS	12	265	265	265	205	256
2	Bulgaria	Mrs. Vesselina Mihneva	IFR	2	49	127	127	127	97
3	Georgia	Mrs. Meri Xalvashi	National Environmental Agency "Black Sea Monitoring Center"	1	2	5	5	5	5
4	Russian Federation	Dr. Tamara Shiganova	SIO RAS	20	446	523	411	411	411
5	Russian Federation	SIO RAS LFPE	SIO RAS, Laboratory of Functioning of Pelagic Ecosystems	3	252	254	254	254	
6	Turkey	Dr. Erhan Mutlu	IMS METU	11	859	880	747	747	747
7	Turkey	Dr. Melek Isinibilir	Istanbul University, Faculty of Fisheries	1	5	5	5	5	5
8	Turkey	Dr. Yesim Ak Orek	IMS METU	2	26	130	0	-	-
9	Turkey	Mrs. Zekiye Birinci Özdemir	Sinop University, Faculty of Fisheries	2	7	168	66	66	66
10	Turkey	Prof Ahmet E. Kideys	BSC PS	7	256	346	346	346	346
11	Ukraine	Dr. Boris Anninsky	IBSS	1	32	32	0	-	-
12	Ukraine	Dr. Galina Finenko, Dr. Galina Abolmasova	IBSS	2	17	890	478	478	478
13	Ukraine	Dr. Zinaida Romanova	IBSS	5	143	143	143	143	143
Total:				69	2359	3768	2847	2787	2563

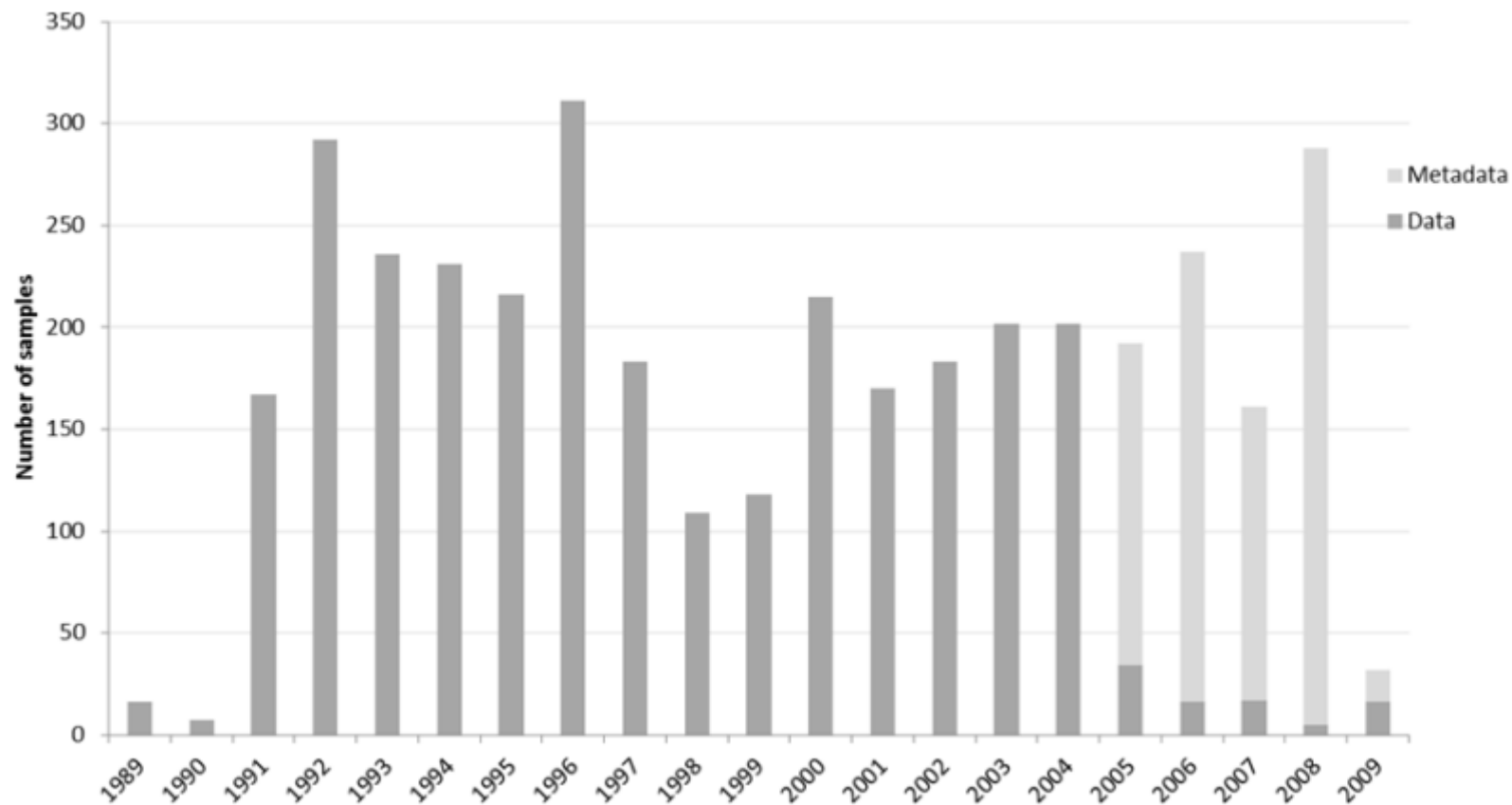


Map of sampling point where biomass or abundance data available



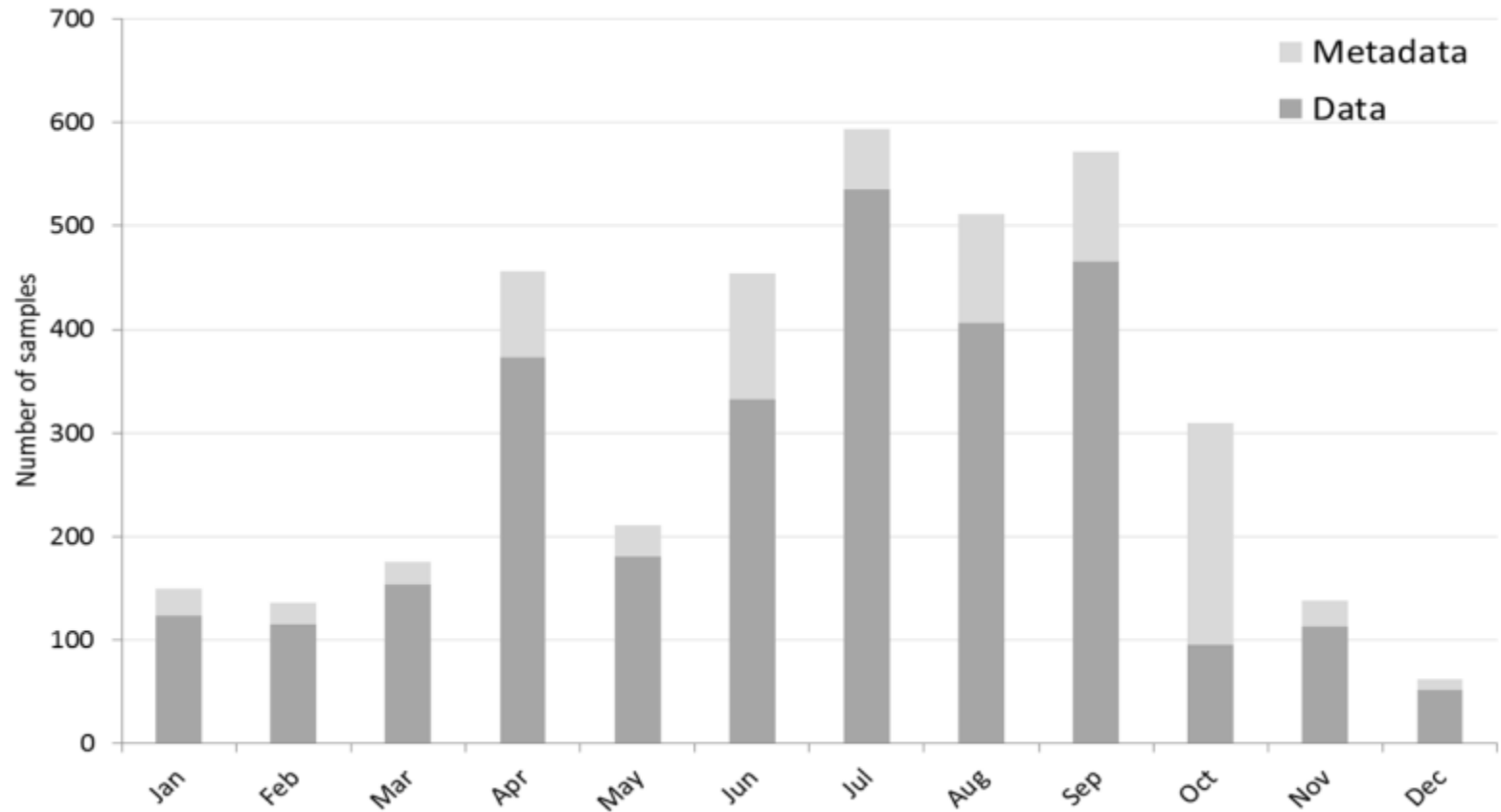
Map of sampling points where only metadata
available (no abundance or biomass data)

Black Sea Mnemiopsis leidyi Database (MLDB)



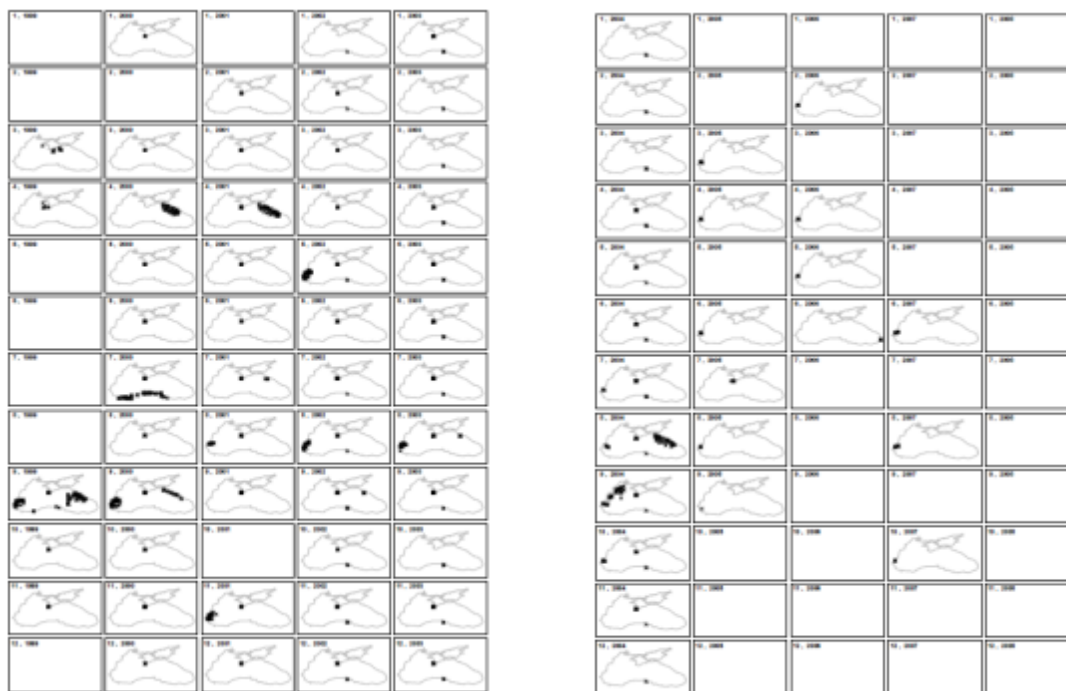
Temporal data distribution (number of measurements per year)

Black Sea Mnemiopsis leidyi Database (MLDB)



Monthly data distribution (summary for all years 1989 - 2009)

On December 2013 data loaded to database covers a period from 1989 until 2009 inclusive and by estimation (Vladymyrov V. et al., 2010) includes about 75% of all available *M. leidyi* data for this period. But the detailed analysis shows that there are still large spatial and temporal gaps in available datasets.



Due to the lack of financial support and voluntary basis of work and data submission the development of database and data submission were stopped in 2011.



Thank you