



**MSFD Guiding  
Improvements in the Black  
Sea  
Integrated Monitoring  
System**



# **Black Sea ZOOBENTHOS LIST IUCN CRITERIA**

**Contact details:**

	NAME	ORGANIZATION	E-MAIL ADDRESS
BG	Valentina TODOROVA	Institute of Oceanology, Varna, Bulgaria	vtodorova@io-bas.bg
GE			
RO	Valeria ABAZA	National Institute for Marine Research and Development, Constanta, Romania	vabaza@alpha.rmri.ro
RO	Adrian FILIMON	National Institute for Marine Research and Development, Constanta, Romania	afilimon@alpha.rmri.ro
RO	Camelia DUMITRACHE	National Institute for Marine Research and Development, Constanta, Romania	cdumitrache@alpha.rmri.ro
RO	Tatiana BEGUN	NIRD GeoEcoMar, Constanta, Romania	tatianabegun@yahoo.com
RO	Adrian TEACA	NIRD GeoEcoMar, Constanta, Romania	adrianxteaca@yahoo.com
RU			
TR	Murat SEZGIN	Sinop University Faculty of Fisheries, Sinop, Turkey	msezgin@sinop.edu.tr
TR	Melek ERSOY KARACUHA	Sinop University Faculty of Fisheries, Sinop, Turkey	
TR	Mehmet ÇULHA	Katip Celebi University Faculty of Fisheries, Sinop, Turkey	
TR	Güley Kurt SAHIN	Sinop University, Faculty of Arts and Sciences Dept. of Biology, Sinop, Turkey	gkurtsahin@gmail.com
TR	Derya ÜRKMEZ	Sinop University, Faculty of Fisheries, Sinop, Turkey	deryaurkmez@gmail.com
TR	Bülent TOPALOĞLU	Istanbul University, Faculty of Fisheries, Sinop, Turkey	
TR	İbrahim ÖKSÜZ	Sinop University, Faculty of Fisheries, Sinop, Turkey	

**Abbreviations used:**

Black Sea countries	
BG	BULGARIA
GE	GEORGIA
RO	ROMANIA
RU	RUSSIAN FEDERATION
TR	TURKEY
UA	UKRAINE

IUCN - categories	
EX	Extinct (исчезнувший)
EW	Extinct in the Wild (исчезнувший в дикой природе)
CR	Critical Endangered (на грани исчезновения)
EN	Endangered (исчезающий)
VU	Vulnerable (уязвимый)
NT	Near Threatened (редкий)
LC	Least Concern (относительно благополучный)
DD	Data Deficient (не достаточно известен)
NE	Not Evaluated (неоцененный)

## Aknowledgements

The authors of this document aknowledge the financial support provided by European Commission – DG Environment though the project MISIS (Grant Agreement No. 07.020400/2012/616044/SUB/D2 ) that made possible the compilation of the existent information on the Black Sea red data invertebrates.

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# Background

The Black Sea Red Data Book published in 1999 contains a preliminary list of species in need for conservation actions, which were introduced in the Annex II (List of Species of the Black Sea Importance) of the Black Sea Biodiversity and Landscape Conservation Protocol, signed in Sofia (Bulgaria) in 2002 and enforced in 2011. There is an urgent need to update and publish the regional Red Data Book and although the list compiled and presented below refers to the marine invertebrates only, it represents a starting point in this process.

The Red Data List of the marine invertebrates is based on the National Red Data Books of the countries around the Black Sea and contains 80 species assessed against IUCN criteria and categories. Most of them are crustaceans and molluscs (95%).

The presentation is quite heterogenous and there is a need to harmonize the categorization of species in such a way to identify their regional conservation status. As for the moment not all species were included in distinct categories, additional effort should be paid in this direction.

# Black Sea Red Data List

Phylum PORIFERA

Class DEMOSPONGIAE



1. *Halichondria panicea* (Pallas, 1766)

<http://www.habitas.org.uk/marinelife/species.asp?item=C4840>

**Family:** Halichondriidae

**Order:** Halichondrida

2. *Lissodendoryx variisclera*

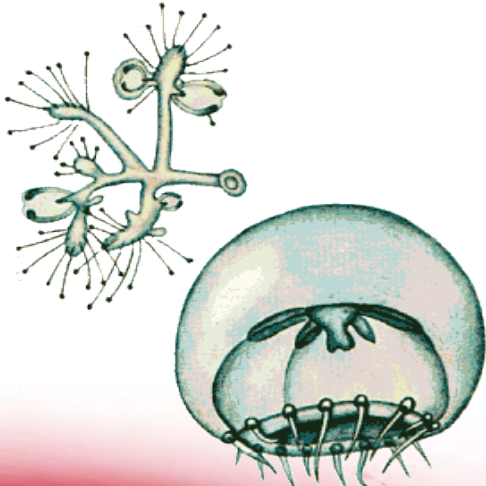
**Family:** Coelosphaeridae

**Suborder:** Myxillina

**Order:** Poecilosclerida

Phylum CNIDARIA

Class HYDROZOA



3. *Odessia maeotica* (Ostroumoff, 1896)

Syn. *Moerisia maeotica* (Ostroumov, 1896)

<http://www.grid.unep.ch/bsein/redbook/txt/moerisia.htm?%20COELENTERATA>

**Family:** Moerisiidae

**Suborder:** Capitata

**Order:** Anthoathecata

**Subclass:** Hydroidolina



4. *Olindias inexpectata* (Ostroumov, 1896)

<http://mail.menr.gov.ua/publ/redbook/redbook.php?lang=ukr&kingdom=1&class=1&ordo=1&fam=1&num=16>

**Family:** Olindiidae

**Order:** Limnomedusae

**Subclass:** Trachylina

Phylum NEMATODA

Class ADENOPHOREA



5. *Axonolaimus sera*

<http://coo.fieldofscience.com/>

**Family:** Axonolaimidae

**Order:** Araeolaimida



6. *Chromadorina bioculata*

[http://mail.menr.gov.ua/publ/redbook/main.php?num=21&action=print\\_ver](http://mail.menr.gov.ua/publ/redbook/main.php?num=21&action=print_ver)

**Family:** Chromadoridae

**Suborder:** Chromadorina

**Order:** Chromadorida

**Subclass:** Chromadoria

Phylum ANNELIDA

Class POLYCHAETA



7. *Arenicola marina* (Linnaeus 1758)

<http://www.discoverlife.org/mp/20q?search=Arenicola+marina>

**Family:** Arenicolidae

**Subclass:** Sedentaria



8. *Ophelia bicornis* (Savigny, 1820)

<http://www.grid.unep.ch/bsein/redbook/txt/ophelia.htm?%20POLYCHAETA>

**Family:** Opheliidae

**Order:**

**Subclass:** Sedentaria

9. *Phyllodoce nana*

**Family:** Phyllodocidae

**Suborder:** Phyllodociformia

**Order:** Phyllodocida

**Subclass:** Errantia

Class OLIGOCHAETA



10. *Eisenia gordejefi* (Michaelsen 1899)

**Subfamily:** Lumbricinae

**Family:** Lumbricidae

**Suborder:** Lumbricina

**Order:** Opisthopora

**Subclass:** Diplotesticulata



Class HIRUDINEA



11. *Archaeobdella esmonti* (Grimm 1876)

[http://mail.menr.gov.ua/publ/redbook/main.php?num=26&action=print\\_ver](http://mail.menr.gov.ua/publ/redbook/main.php?num=26&action=print_ver)

**Family:** Erpobdellidae  
**Suborder:** Erpobdelliformes  
**Order:** Arhynchobdellida



12. *Batracobdella algira* (Moquin-Tandon, 1846)

<http://redbook-ua.org/item/batracobdella-algira-moquin-tandon/>

**Family:** Glossiphoniidae  
**Order:** Rhynchobdellida



13. *Erpobdella stschegolewi* (Lukin & Epshtein, 1950)

[http://nature.land.kiev.ua/RB\\_94/25.htm](http://nature.land.kiev.ua/RB_94/25.htm)

**Family:** Erpobdellidae



14. *Trocheta subviridis* (Dutrochet, 1817)

**Family:** Erpobdellidae  
**Order:** Arhynchobdellida





15. *Aporrhais pespelecani* (Linnaeus, 1758)  
([http://www.gastropods.com/2/Shell\\_282.shtml](http://www.gastropods.com/2/Shell_282.shtml))

**Family:** Aporrhaidae  
**Order:** Littorinimorpha  
**Subclass:** Caenogastropoda



16. *Bela nebula* (Montagu, 1803)  
([http://www.gastropods.com/7/Shell\\_11187.shtml](http://www.gastropods.com/7/Shell_11187.shtml))

**Family:** Mangeliidae  
**Order:** Neogastropoda  
**Subclass:** Caenogastropoda



17. *Calyptraea chinensis* (Linnaeus, 1758)  
(<http://www.abysoblu.com/shellsMESO04calyptraeidae.htm>)

**Family:** Calyptraeidae  
**Order:** Littorinimorpha  
**Subclass:** Caenogastropoda



18. *Gibbula divaricata* (Linnaeus, 1758)  
(<http://malacos.chez.com/ACTUEXTN.HTM>)

**Subfamily:** Cantharidinae  
**Family:** Trochidae  
**Subclass:** Vetigastropoda



19. *Patella ulyssiponensis* (Gmelin, 1791)  
Syn. *Patella tarentina* (Salis, 1793)  
([http://www.gastropods.com/0/Shell\\_5820.shtml](http://www.gastropods.com/0/Shell_5820.shtml))

**Family:** Patellidae  
**Subclass:** Patellogastropoda



20. *Tricolia pullus pullus* (Linnaeus, 1758)  
Syn. *Phasianella pontica* (Milaschewitsch, 1909)  
(<https://www.google.ro/#q=Phasianella+ponticas>)

**Family:** Phasianellidae  
**Subclass:** Vetigastropoda

*Tricolia pullus pullus* (?) *pontica*  
Bulgaria, Burgas, Morvata, Buhtta Michurin  
NMR 77852. Actual size 5.5 mm



21. *Turricaspia lincta*  
(<http://redbook-ua.org/item/turricaspia-lincta-milashevich/>)

**Family:** Pyrgulidae  
**Order:** Neotaenioglossa  
**Subclass:** Orthogastropoda

### Class BIVALVIA

*Donacilla cornea* mm 20



22. *Donacilla cornea* (Poli, 1791)  
(<http://www.fotoconchigliemediterraneo.com/2013/01/bivalvia-5-carditidae-crassatellidae.html>)

**Family:** Mesodesmatidae  
**Order:** Veneroida  
**Subclass:** Heterodonta



23. *Donax trunculus* Linnaeus, 1758  
Photo Adrian Filimon

**Family:** Donacidae  
**Order:** Veneroida  
**Subclass:** Heterodonta





24. *Gastrana fragilis* (Linnaeus, 1758)  
(<http://www.habitas.org.uk/marinelife/species.asp?item=W20710>)

**Family:** Tellinidae  
**Order:** Veneroida  
**Subclass:** Heterodonta



25. *Hypanis laeviscula* (Milachevitch, 1916)  
(<http://redbook-ua.org/item/hypanis-laeviscula-milachevitch/>)

**Family:** Cardiidae  
**Order:** Veneroida

26. *Hypanis plicata* (Milashevitch, 1916)

**Family:** Cardiidae  
**Order:** Veneroida



27. *Irus irus* (Linnaeus, 1758)

**Family:** Veneridae  
**Order:** Veneroida  
**Subclass:** Heterodonta

Photo Adrian Filimon



Loripes lucinalis  
Tunisia, Medenine, Ile de Jerba  
NMR 36106. Common size 20 mm

**28. *Loripes lucinalis*** (Lamarck, 1818)

[http://www.nmr-pics.nl/Lucinidae\\_new/album/slides/Loripes%20lucinalis.html](http://www.nmr-pics.nl/Lucinidae_new/album/slides/Loripes%20lucinalis.html)

**Family:** Lucinidae

**Order:** Lucinoida

**Subclass:** Heterodonta



**29. *Ostrea edulis*** (Linnaeus, 1758)

[http://www.idscaro.net/sci/01\\_coll/plates/bival/pl\\_ostreidae\\_1.htm](http://www.idscaro.net/sci/01_coll/plates/bival/pl_ostreidae_1.htm)

**Subfamily:** Ostreinae

**Family:** Ostreidae

**Order:** Ostreoida

**Subclass:** Pteriomorpha



**30. *Petricola lithophaga*** (Retzius, 1788)

<http://www.femorale.com/>

**Subfamily:** Petricolinae

**Family:** Veneridae

**Order:** Veneroida

**Subclass:** Heterodonta



31. *Pholas dactylus* (Linnaeus, 1758)  
<http://www.elrincondelmalacologo.com/>

**Subfamily:** Pholadinae  
**Family:** Pholadidae  
**Order:** Myoida  
**Subclass:** Heterodonta



32. *Pitar rudis* (Poli, 1795)  
<http://blacksea-education.ru/bivalvia.shtml>

**Family:** Veneridae  
**Order:** Veneroida  
**Subclass:** Heterodonta



33. *Politapes aureus* (Gmelin, 1791)  
*Syn. Paphia aurea*  
<http://www.biolib.cz/en/image/id163942/>

**Family:** Veneridae  
**Order:** Veneroida  
**Subclass:** Heterodonta



34. *Solen marginatus* (Pulteney, 1799)  
[http://www.aphotomarine.com/bivalve\\_solen\\_marginatus](http://www.aphotomarine.com/bivalve_solen_marginatus)

**Family:** Solenidae  
**Order:** Euheterodonta  
**Subclass:** Heterodonta





35. *Tellina fabula* (Gmelin, 1791)

[http://commons.wikimedia.org/wiki/File:Tellina\\_fabula](http://commons.wikimedia.org/wiki/File:Tellina_fabula)

**Subfamily:** Tellininae

**Family:** Tellinidae

**Order:** Veneroida

**Subclass:** Heterodonta



36. *Moerella donacina* (Linnaeus, 1758)

[http://www.idscaro.net/sci/04\\_med/class/fam5/species/tell\\_donacina1.htm](http://www.idscaro.net/sci/04_med/class/fam5/species/tell_donacina1.htm)

**Subfamily:** Tellininae

**Family:** Tellinidae

**Order:** Veneroida

**Subclass:** Heterodonta

Subphylum CRUSTACEA

Class Branchiopoda

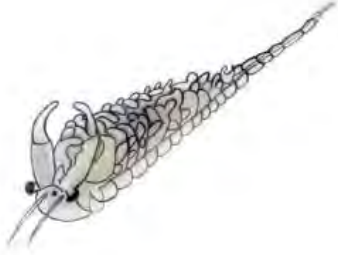

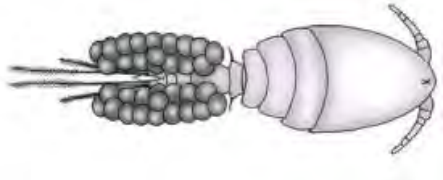


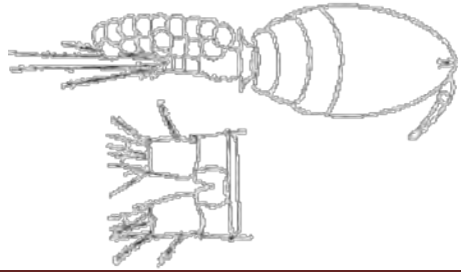
37. *Branchinecta ferox* (M. Milne-Edwards, 1840)

[http://mail.menr.gov.ua/publ/redbook/main.php?num=30&action=print\\_ver](http://mail.menr.gov.ua/publ/redbook/main.php?num=30&action=print_ver)

**Family:** Branchinectidae

**Order:** Anostraca

	<p><b>38. <i>Branchinecta orientalis</i></b> (G.O. Sars, 1901)  <a href="http://redbook-ua.org/item/branchinecta-orientalis-go-sars/">http://redbook-ua.org/item/branchinecta-orientalis-go-sars/</a></p> <p><b>Family:</b> Branchinectidae  <b>Order:</b> Anostraca</p>
	<p><b>39. <i>Branchinecta spinosa</i></b> ( Schmankewitsch, 1873)</p> <p><b>Family:</b> Branchinectidae  <b>Order:</b> Anostraca</p>
	<p><b>40. <i>Branchinecta media</i></b> (Schmankewitsch, 1873)</p> <p><b>Family:</b> Branchinectidae  <b>Order:</b> Anostraca</p>
<p><b>Class Maxillopoda</b></p>	
	<p><b>41. <i>Anomalocera patersoni</i></b> (Templeton, 1837)  <a href="https://www.google.ro/#q=Anomalocera+patersoni&amp;spell=1">https://www.google.ro/#q=Anomalocera+patersoni&amp;spell=1</a></p> <p><b>Family:</b> Pontellidae  <b>Order:</b> Calanoida  <b>Subclass:</b> Copepoda</p>
	<p><b>42. <i>Colpocyclops dulcis</i></b> (Monchenko, 1977)  <a href="http://redbook-ua.org/item/colpocyclops-dulcis-monchenko/">http://redbook-ua.org/item/colpocyclops-dulcis-monchenko/</a></p> <p><b>Family:</b> Cyclopidae  <b>Order:</b> Cyclopoida  <b>Subclass:</b> Copepoda</p>



43. *Colpocyclops longispinosus* (Monchenko, 1977)  
<http://www.grid.unep.ch/bsein/redbook/txt/colpolon.htm?%20CRUSTACEA>

**Family:** Cyclopidae  
**Order:** Cyclopoida  
**Subclass:** Copepoda

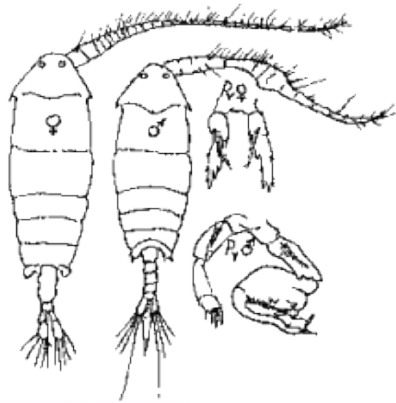
44. *Labidocera brunescens* (Czerniavski, 1868)

**Family:** Pontellidae  
**Order:** Calanoida  
**Subclass:** Copepoda



45. *Oithona nana* (Giesbrecht, 1893)  
[http://www.obs-vlfr.fr/~gaspari/copepods\\_guide/oitho\\_nana\\_fem.htm](http://www.obs-vlfr.fr/~gaspari/copepods_guide/oitho_nana_fem.htm)

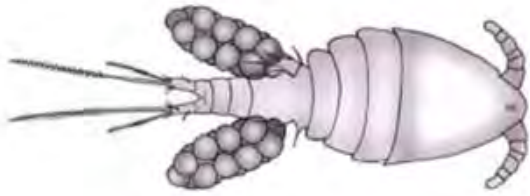
**Family:** Oithonidae  
**Order:** Cyclopoida  
**Subclass:** Copepoda



46. *Pontella mediterranea* (Claus, 1863)  
<http://www.grid.unep.ch/bsein/redbook/txt/pontella.htm?%20CRUSTACEA>

**Family:** Pontellidae  
**Order:** Calanoida  
**Subclass:** Copepoda





47. *Smirnoviella reducta* Monchenko, 1977  
Syn. *Sergiosmirnovia reducta* (Monchenko, 1977)  
(<http://redbook-ua.org/item/sergiosmirnovia-reducta-monchenko/>)

**Family:** Cyclopidae  
**Order:** Cyclopoida  
**Subclass:** Copepoda

Class Malacostraca



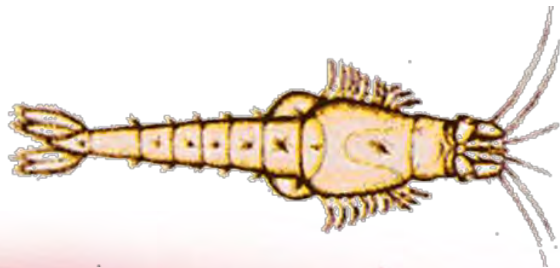
48. *Hemimysis anomala* G.O.Sars, 1907  
(<http://www.nobanis.org/MarineIdkey/Small%20crustaceans/HemimysisAnomala.htm>)

**Subfamily:** Mysinae  
**Family:** Mysidae  
**Order:** Mysida  
**Subclass:** Eumalacostraca



49. *Hemimysis serrata* (Bacescu, 1938)  
(<http://redbook-ua.org/item/hemimysis-serrata-bacescu/>)

**Subfamily:** Mysinae  
**Family:** Mysidae  
**Order:** Mysida  
**Subclass:** Eumalacostraca



50. *Katamysis warpachowskyi* G.O. Sars, 1893  
(<http://www.grid.unep.ch/bsein/redbook/txt/katamysi.htm?%20CRUSTACEA>)

**Subfamily:** Mysinae  
**Family:** Mysidae  
**Order:** Mysida  
**Subclass:** Eumalacostraca



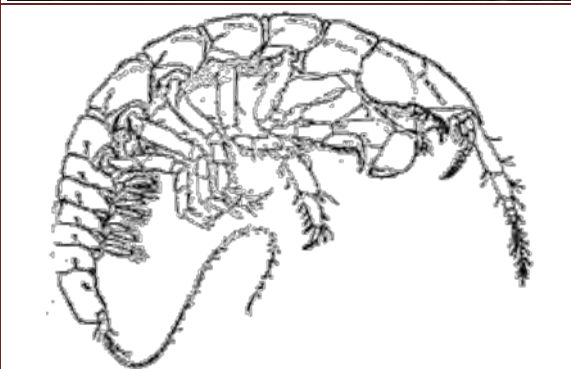
51. *Mesopodopsis slabberi* (Van Beneden, 1861)  
([http://www.com.univ-mrs.fr/DIMAR/GBIRM/sampling\\_protocols/index.htm](http://www.com.univ-mrs.fr/DIMAR/GBIRM/sampling_protocols/index.htm))

**Subfamily:** Mysinae  
**Family:** Mysidae  
**Order:** Mysida  
**Subclass:** Eumalacostraca



52. *Tanais dulongii* (Audouin, 1826)  
(<http://nature22.com/estran22/crustace/crustaces.html>)

**Subfamily:** Tanainae  
**Family:** Tanaidae  
**Suborder:** Tanaidomorpha  
**Order:** Tanaidacea  
**Subclass:** Eumalacostraca

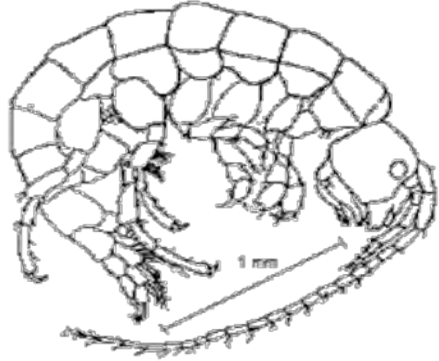


53. *Apseudopsis ostroumovi* (Bacescu & Carausu, 1947)  
(<http://www.grid.unep.ch/bsein/redbook/txt/apseudop.htm?%20CRUSTACEA%20i>)

**Subfamily:** Apseudinae  
**Family:** Apseudidae  
**Suborder:** Apseudomorpha  
**Order:** Tanaidacea  
**Subclass:** Eumalacostraca

54. *Biancolina algicola* Della Valle, 1893

**Family:** Biancolinidae  
**Suborder:** Senticaudata  
**Order:** Amphipoda  
**Subclass:** Eumalacostraca



55. *Biancolina cuniculus* (Stebbing, 1874)

<http://www.grid.unep.ch/bsein/redbook/txt/biancol.htm?%20CRUSTACEA>

**Family:** Amphithoidae

**Order:** Amphipoda

**Subclass:** Eumalacostraca



56. *Caprella acanthifera* (Leach, 1814)

<http://www.cryptosula.nl/native%20Amphipoda.html>

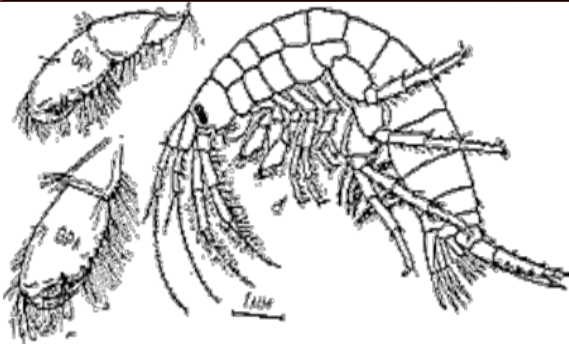
**Subfamily:** Caprellinae

**Family:** Caprellidae

**Suborder:** Senticaudata

**Order:** Amphipoda

**Subclass:** Eumalacostraca



57. *Chaetogammarus ischnus major* (Stebbing, 1898)

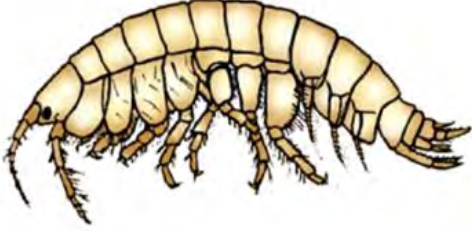
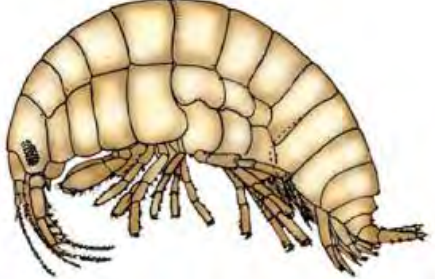
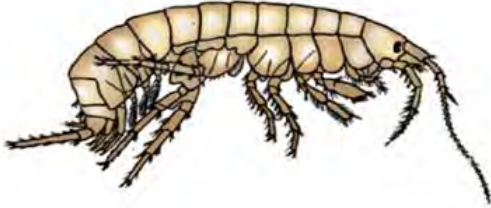
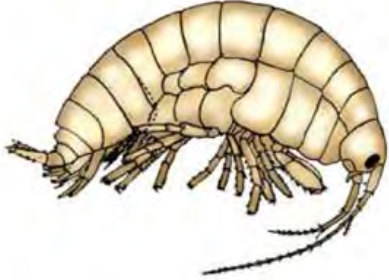
<http://www.grid.unep.ch/bsein/redbook/txt/chaetoga.htm?%20CRUSTACEA>

**Family:** Gammaridae

**Order:** Amphipoda

**Subclass:** Eumalacostraca

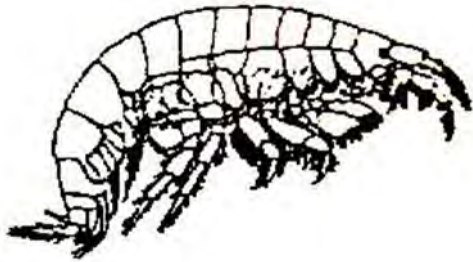


	<p><b>58.</b> <i>Yngmelina pusilla</i> (G.O. Sars, 1896)  Syn. <i>Gmelina pusilla</i> Sars, 1896  <a href="http://redbook-ua.org/item/gmelina-pusilla-sars/">http://redbook-ua.org/item/gmelina-pusilla-sars/</a></p> <p><b>Family:</b> Gammaridae  <b>Suborder:</b> Senticaudata  <b>Order:</b> Amphipoda  <b>Subclass:</b> Eumalacostraca</p>
	<p><b>59.</b> <i>Iphigenella acanthopoda</i> G.O. Sars, 1896  <a href="http://redbook-ua.org/item/iphigenella-acanthopoda-sars/">http://redbook-ua.org/item/iphigenella-acanthopoda-sars/</a></p> <p><b>Family:</b> Iphigenellidae  <b>Suborder:</b> Senticaudata  <b>Order:</b> Amphipoda  <b>Subclass:</b> Eumalacostraca</p>
	<p><b>60.</b> <i>Iphigenella andrussovi</i> (Sars, 1896)  <a href="http://redbook-ua.org/item/iphigenella-andrussovi-sars/">http://redbook-ua.org/item/iphigenella-andrussovi-sars/</a></p> <p><b>Family:</b> Gammaridae  <b>Order:</b> Amphipoda  <b>Subclass:</b> Eumalacostraca</p>
	<p><b>61.</b> <i>Iphigenella shablensis</i> (Carausu, 1943)  <a href="http://redbook-ua.org/item/iphigenella-shablensis-carausu/">http://redbook-ua.org/item/iphigenella-shablensis-carausu/</a></p> <p><b>Family:</b> Iphigenellidae  <b>Suborder:</b> Senticaudata  <b>Order:</b> Amphipoda  <b>Subclass:</b> Eumalacostraca</p>



62. *Niphargoides intermedius* (Carausu, 1943)  
[http://mail.menr.gov.ua/publ/redbook/main.php?num=44&action=print\\_ver](http://mail.menr.gov.ua/publ/redbook/main.php?num=44&action=print_ver)

**Family:** Pontogammaridae  
**Order:** Amphipoda  
**Subclass:** Eumalacostraca



63. *Pontogammarus maeoticus* (Sowinsky, 1894)  
<http://www.lefo.ro/iwlearn/zoobentos-45htm.htm>

**Family:** Pontogammaridae  
**Suborder:** Senticaudata  
**Order:** Amphipoda  
**Subclass:** Eumalacostraca



64. *Brachynotus sexdentatus*  
[http://www.klissurov.dir.bg/black\\_sea/crustaceans/crustaceans1.htm](http://www.klissurov.dir.bg/black_sea/crustaceans/crustaceans1.htm)

**Subfamily:** Varuninae  
**Family:** Varunidae  
**Order:** Decapoda  
**Subclass:** Eumalacostraca



65. *Pestarella candida* (Olivi, 1792)  
Syn. *Callianassa pontica*  
[http://decapoda.aquarius-s.ru/dec\\_as\\_01eng.html](http://decapoda.aquarius-s.ru/dec_as_01eng.html)

**Subfamily:** Callianassinae  
**Family:** Callianassidae  
**Order:** Decapoda  
**Subclass:** Eumalacostraca





66. *Necallianassa truncata* (Giard & Bonnier, 1890)

<http://ecomareaneagra.wordpress.com/ecosistemul/animalia/crustacea/malacostraca/>

**Family:** Callianassidae

**Order:** Decapoda

**Subclass:** Eumalacostraca



67. *Carcinus aestuarii* Nordo 1847

Photo Adrian Filimon

**Subfamily:** Carcininae

**Family:** Portunidae

**Order:** Decapoda

**Subclass:** Eumalacostraca



68. *Clibanarius erythropus* (Latreille, 1818)

[http://en.wikipedia.org/wiki/Clibanarius\\_erythropus](http://en.wikipedia.org/wiki/Clibanarius_erythropus)

**Family:** Diogenidae

**Order:** Decapoda

**Subclass:** Eumalacostraca





69. *Eriphia verrucosa* Forskall, 1755  
([http://www.ictioterms.es/nombre\\_cientifico.php?nc=253](http://www.ictioterms.es/nombre_cientifico.php?nc=253))

**Family:** Eriphiidae  
**Order:** Decapoda  
**Subclass:** Eumalacostraca



70. *Liocarcinus depurator* (Linnaeus, 1758)  
([http://en.wikipedia.org/wiki/Liocarcinus\\_depurator](http://en.wikipedia.org/wiki/Liocarcinus_depurator))

**Family:** Polybiidae  
**Order:** Decapoda  
**Subclass:** Eumalacostraca



71. *Liocarcinus navigator* Herbst, 1794  
(<http://www.grid.unep.ch/bsein/redbook/txt/macropip.htm?%20CRUSTACEA>)  
([http://en.wikipedia.org/wiki/File:Liocarcinus\\_navigator.jpg](http://en.wikipedia.org/wiki/File:Liocarcinus_navigator.jpg))

**Family:** Polybiidae  
**Order:** Decapoda  
**Subclass:** Eumalacostraca



**72. *Pachygrapsus marmoratus* Fabricius, 1787**

Photo. Valeria Abaza

**Family:** Grapsidae

**Order:** Decapoda

**Subclass:** Eumalacostraca



**73. *Potamon tauricum* Czerniavsky, 1884**

<http://www.grid.unep.ch/bsein/redbook/txt/potamon.htm?%20CRUSTACEA>

**Family:** Potamidae

**Order:** Decapoda

**Subclass:** Eumalacostraca

**Phylum ECHINODERMATA**

**Class Holothuroidea**

**74. *Stereoderma kirchsbergii* (Heller, 1868) Panning, 1949**

**Family:** Cucumariidae

**Order:** Dendrochirotida

Subphylum CEPHALOCHORDATA

Class LEPTOCARDII



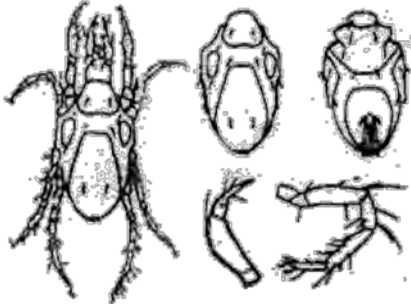
75. *Branchiostoma lanceolatum* Pallas, 1774

[http://en.wikipedia.org/wiki/File:Branchiostoma\\_lanceolatum.jpg](http://en.wikipedia.org/wiki/File:Branchiostoma_lanceolatum.jpg)

**Family:** Branchiostomatidae

Subphylum CHELICERATA

Class ARACHNIDA



76. *Halacarellus procerus* (Viets, 1927)

<http://www.grid.unep.ch/bsein/redbook/txt/halacare.htm?%20HALACARIDAE>

**Family:** Halacaridae

**Order:** Trombidiformes

**Subclass:** Acari ?

INSECTA



77. *Anax imperator* Leach, 1815

<http://furiarossaandmimma.deviantart.com/art/Anax-imperator-larva-342312865>

**Family:** Aeshnidae

**Order:** Odonata





78. *Calopteryx splendens* – complex  
(<http://www.dragonfly-images.co.uk/#/banded-demoiselle/4532378508>)

**Family:** Calopterygidae  
**Order:** Odonata



79. *Calopteryx virgo* - complex (meridionali+?)  
([http://www.aphotofauna.com/damsselfly\\_calopteryx\\_virgo\\_beautiful\\_demoiselle.html](http://www.aphotofauna.com/damsselfly_calopteryx_virgo_beautiful_demoiselle.html))

**Family:** Calopterygidae  
**Order:** Odonata



80. *Epallage fatime* (Charpentier 1840)  
([http://greekdragonfly.nature4stock.com/?page\\_id=156](http://greekdragonfly.nature4stock.com/?page_id=156))

**Family:** Euphaeidae  
**Order:** Odonata

NOTE	Taxonomic groups, species	IUCN	European	Black Sea Red Data Book - BS RDB (1999)							National Red Data Books (Lists)						Proposed status for species in new version											
		status	status	status							and year of their last version						of the Black Sea Red Data Book											
				Black Sea	Regional level							2007						2009						2014				
				level	BG	GE	RO	RU	TR	UA	BG	GE	RO	RU	TR	UA	BG	GE	RO	RU	TR	UA	BG	GE	RO	RU	TR	UA
	<b>INVERTEBRATES</b>																											
	* <i>Anax imperator</i> Leach, 1815			DD	VU		VU		VU							VU												
	*** <i>Anomalocera patersoni</i> (Templeton, 1837)			EN						EN			DD				DD		DD	DD								
	* <i>Aporrhais pespelecani</i> (Linnaeus, 1758)			VU		VU			VU																			
	* <i>Apseudopsis ostroumovi</i> Bacescu & Carausu, 1947							LR								LC											LC	
UA **	<i>Archaeobdella esmonti</i>																										RA	
RO **	<i>Arenicola marina</i> (Linnaeus 1758)															RE			EN									
UA **	<i>Axonolaimus sera</i>																										RA	
RO **	<i>Bela nebula</i> (Montagu, 1803)															DD			DD									
TR **	<i>Biancolina algicola</i>																										RA	
UA **	<i>Batracobdella algira</i>																											
	* <i>Biancolina cuniculus</i> (Stebbing, 1874)								EN							EN											LC	
	<i>Branchinecta ferox</i> (M. Milne-Edwards, 1840)																					DD					CR (or DD)	
	<i>Branchinecta orientalis</i> G.O. Sars, 1901																					CR					CR	
	* <i>Branchinecta spinosa</i> Schmankewitsch, 1873			EN						EN												VU					CR	
	* <i>Branchinectella media</i> Schmankewitsch, 1873			EN						EN												VU					CR	
	* <i>Branchiostoma lanceolatum</i> Pallas, 1774			VU																RE								
RO **	<i>Brachyotus sexdentatus</i>															CR			NT									
RO **	<i>Calyptrea chinensis</i>															VU			VU									
RO **	<i>Pestarella candida</i> (Olivi, 1792) (syn.															NA			CR									
RO **	<i>Necallianassa truncata</i> (Giard & Bonnier, 1890)															NA			EN									
	* <i>Calopteryx splendens</i> - complex (balcanica+taurica?)			LR	VU											DD					VU						VU	
	* <i>Calopteryx virgo</i> - complex (meridionali+?)			VU	VU					VU						DD					VU						VU	
RO **	<i>Caprella acanthifera</i>															VU			VU		NT							
	* <i>Carcinus aestuarii</i> Nordo 1847				VU		VU			VU						EN			RA		CR						LC (or EN)	
	* <i>Chaetogammarus ischnus major</i> (Stebbing, 1898)	VU		VU	VU		VU			VU																	VU	
UA **	<i>Chromadorina bioculata</i>																										VU	
RO **	<i>Clibanarius erythropus</i>															CR				CR								
	* <i>Colpocyclops dulcis</i> (Monchenko, 1977)									VU												VU					VU	
	* <i>Colpocyclops longispinosus</i> (Monchenko, 1977)									EN												VU					EN	
	* <i>Donacilla cornea</i> (Poli, 1791)			EN			EN			EN						CR				CR							EN	
RO **	<i>Donax trunculus</i>															VU				VU								
UA **	<i>Eisenia gordejefi</i>																										EN	
	* <i>Epallage fatime</i> (Charpentier, 1840)			DD	VU				VU																			
	* <i>Eriphia verrucosa</i> Forskall, 1755						EN			EN						NT			EN								EN	
UA **	<i>Erpobdella stschegolewi</i>																										RA	
RO **	<i>Gastrana fragilis</i>															EN				EN								
RO **	<i>Gibbula divaricata</i>															CR				CR								
	<i>Yogmelina pusilla</i> (G.O. Sars, 1896) Syn. <i>Gmelina pusilla</i> Sars, 1896																					VU					VU (or RA)	
	* <i>Halacarellus procerus</i> (Viets, 1927)									EN																	EN	
	* <i>Halichondria panicea</i> (Pallas, 1766)							VU		VU						VU											EN	
	* <i>Hemimysis anomala</i> G.O. Sars, 1907			EN						EN						LC			EN								EN	
	* <i>Hemimysis serrata</i> (Bacescu, 1938)			EN						EN						EN			EN								EN	
	<i>Hypanis laeviuscula</i> (Milashevitch, 1916)																					VU					VU	
	<i>Hypanis plicata</i> (Milashevitch, 1916)																					VU					VU	
	* <i>Iphigenella acanthopoda</i> GO. Sars, 1896			VU						VU						DD			EN								VU	

NOTE	Taxonomic groups, species	IUCN	European	Black Sea Red Data Book - BS RDB (1999)							National Red Data Books (Lists) and year of their last version						Proposed status for species in new version of the Black Sea Red Data Book					
		status	status	status							2007						2009					
				Black Sea level	BG	GE	RO	RU	TR	UA	BG	GE	RO	RU	TR	UA	BG	GE	RO	RU	TR	UA
	<b>INVERTEBRATES</b>																					
*	<i>Iphigenella andrussovi</i> (Sars, 1896)			LR	LR		LR			LR			DD			VU						VU
*	<i>Iphigenella shablensis</i> (Carausu, 1943)			VU	VU		VU									VU						VU
RO **	<i>Irus irus</i> (Linnaeus, 1758)												CR						EN			
*	<i>Katamysis warpachowskyi</i> G.O. Sars, 1893			EN						EN			LC			EN						EN
***	<i>Labidocera brunescens</i> (Czernjavsky, 1868)			EN						EN			DD?				DD		DD	DD		VU
TR **	<i>Liocarcinus depurator</i> (Linnaeus, 1758)																					
RO **	<i>Lissodendoryx variisclera</i>												DD						DD			
RO **	<i>Loripes lucinalis</i> (Lamarck, 1818)												RE						EN			
*	<i>Liocarcinus navigator</i> (Herbst, 1794) Syn. <i>Macropipus arcuatus</i> Leach, 1814						VU						EN						EN			VU
RO **	<i>Mesopodopsis slabberi</i>												EN						LC			
*	<i>Odessia maeotica</i> (Ostroumov, 1896)			VU			EN			VU						CR						CR
	<i>Niphargoides intermedius</i> (Carausu, 1943)															VU						VU (or RA)
	<i>Oithona nana</i> Giesbrecht, 1893					EN											EX		EX	EX		EX
	<i>Olindias inexpectata</i> (Ostroumov, 1896)															VU						CR
*	<i>Ophelia bicornis</i> (Savigny, 1820)			EN			EN			EN			RE						CR			VU
*	<i>Ostrea edulis</i> (Linnaeus, 1758)			EN			VU			EN			CR			VU			RE			CR
*	<i>Pachygrapsus marmoratus</i> Fabricius, 1787						VU			VU			LC			RA			LC			VU
RO **	<i>Polititapes aureus</i> (Gmelin, 1791)												VU						EN			
*	<i>Patella tarentina</i> (Salis, 1793)			EN						EN			DD									CR
RO **	<i>Petricola lithophaga</i>												CR						CR			
RO **	<i>Phasianella pontica</i> (Tricolia pullus)												CR						CR			
RO **	<i>Phyllodoce nana</i>												DD						DD			
RO **	<i>Pholas dactylus</i>												CR						CR			
RO **	<i>Pitar rudis</i>												VU						VU			
***	<i>Pontella mediterranea</i> (Claus, 1863)			EN						EN			DD?				DD		DD	DD		VU
TR **	<i>Pontogammarus maeoticus</i>																					
*	<i>Potamon tauricum</i> Czerniavsky, 1884			DD						EN						EN						EN
*	<i>Smirnoviella reducta</i> Syn. <i>Sergiosmirnovia reducta</i> (Monchenko, 1977)			EN						EN						VU						EN
RO **	<i>Solen marginatus</i>												CR						RE			
TR **	<i>Stereoderma kirschbergi</i>																					
TR **	<i>Tanais dulongii</i>																					
RO **	<i>Tellina fabula</i>																		CR			
RO **	<i>Tellina donacina</i>												RE						RE			
UA **	<i>Trocheta subviridis</i>																					EN
UA **	<i>Turricaspia lincta</i>																					RA

\* - Species from Black Sea Red Data Book (1999)

\*\* - New proposals, country of proposal indicated in the first column (NOTE)

\*\*\* - Not evaluated (Romanian comment)



# **Black Sea ZOOBENTHOS LIST IUCN CRITERIA**



**MSFD Guiding Improvements in the  
Black Sea Integrated Monitoring System**

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