

## List of NNS occurring in Montenegro

| Habitat    | Scientific name                 | English name       | Common name in National Language | National Geographical Distribution     | Status* | Pathway/Vector                 | Main Reference  |
|------------|---------------------------------|--------------------|----------------------------------|--|---------|--------------------------------|---|
| Macroalgae |                                 |                    |                                  |  |         |                                |   |
| Marine     | <i>Antithamnion amphigeneum</i> | red algae          |                                  | Tivat municipality                     | Extant  | fouling on ships               | Mačić V. & Ballesteros E. 2016. First record of the alien alga <i>Antithamnion amphigeneum</i> (Rhodophyta) in the Adriatic Sea. <i>Acta Adriatica</i> 57 (2): 315–320.   |
| Marine     | <i>Caulerpa cylindracea</i>     | green algae        |                                  | From Bar to Herceg Novi                | Extant  | Unknown                        | Petović S, Marković O & Đurović M (2019) Inventory of non-indigenous and cryptogenic marine benthic species of the south-east Adriatic Sea, Montenegro. <i>Acta Zoologica Bulgarica</i> 71(1):47-52   |
| Marine     | <i>Asparagopsis taxiformis</i>  | red seaweed        |                                  | Boka Kotorska bay                      | Extant  | Unknown                        | Zenetos A., Katsanevakis S., Beqiraj S., Mačić V., Poursanidis D. & Kashta L. 2011. Rapid assessment survey of marine alien species in the Albanian and Montenegrin coast. Technical report. RAC/SPA, N° 37/38/39/2010: 54  |
| Marine     | <i>Asparagopsis armata</i>      | red algae          |                                  | Boka Kotorska bay and surrounding area | Extant  | fouling on ships               | Špan A. & Antolić B. 1983. Prilog poznavanju ftobentosa Crnogorskog primorja, južni Jadran (A contribution to the knowledge of phytobenthos of an open region (Crnogorsko primorje) in the eastern South Adriatic). <i>Studia Marina</i> 13/14: 87-110.   |
| Marine     | <i>Womersleyella setacea</i>    | red algae          |                                  | Whole coast                            | Extant  | fouling on ships, sea currents | Battelli C. & Rindi F. 2008. The extensive development of the turfforming red alga <i>Womersleyella setacea</i> (Hollenberg) R. E. Norris (Rhodophyta, Ceramiales) in the Bay of Boka Kotorska, Montenegro (southern Adriatic Sea). <i>Plant Biosystems</i> 142 (1): 120-125  |
| Marine     | <i>Ganonema farinosum</i>       | algae              |                                  | Bar                                    | Extant  | Lessepian migration            | IBM data  |
| Marine     | <i>Caulerpa taxifolia</i>       | killer algae       |                                  |  | Horizon |                                | Karachle, P.K., Corsini Foka, M., cCrocetta, F., Dulčić, J., Dzhebekova, N., Galanidi, M., ... Zenetos, A. (2017). Setting-up a billboard of marine invasive species in the ESENIAS area: current situation and future expectancies. <i>Acta Adriatica</i> , 58 (3), 429-456. <a href="https://doi.org/10.32582/aa.58.3.4">https://doi.org/10.32582/aa.58.3.4</a> |
| Marine     | <i>Halophila stipulacea</i>     | halophila seagrass |                                  |  | Horizon |                                | CABI 2021<br>Karachle, P.K., Corsini Foka, M., cCrocetta, F., Dulčić, J., Dzhebekova, N., Galanidi, M., ... Zenetos, A. (2017). Setting-up a billboard of marine invasive species in the  |

|                    |                                 |                          |                      |             |         |   |
|--------------------|---------------------------------|--------------------------|----------------------|-------------|---------|---|
|                    |                                 |                          |                      |             |         | ESENIAS area: current situation and future expectancies. <i>Acta Adriatica</i> , 58 (3), 429-456. <a href="https://doi.org/10.32582/aa.58.3.4">https://doi.org/10.32582/aa.58.3.4</a>   |
|                    |                                 |                          |                      |             |         | CABI 2021   |
| Marine             | <i>Codium fragile</i>           | green sea finger         |                      |             | Horizon | Karachle, P.K., Corsini Foka, M., cCrocetta, F., Dulčić, J., Dzhebekova, N., Galanidi, M., ... Zenetos, A. (2017). Setting-up a billboard of marine invasive species in the ESENIAS area: current situation and future expectancies. <i>Acta Adriatica</i> , 58 (3), 429-456. <a href="https://doi.org/10.32582/aa.58.3.4">https://doi.org/10.32582/aa.58.3.4</a> |
| Marine             | <i>Bonnemaisonia hamifera</i>   |                          |                      |             | Horizon | Karachle, P.K., Corsini Foka, M., cCrocetta, F., Dulčić, J., Dzhebekova, N., Galanidi, M., ... Zenetos, A. (2017). Setting-up a billboard of marine invasive species in the ESENIAS area: current situation and future expectancies. <i>Acta Adriatica</i> , 58 (3), 429-456. <a href="https://doi.org/10.32582/aa.58.3.4">https://doi.org/10.32582/aa.58.3.4</a> |
| Marine             | <i>Lophocladia lallemandii</i>  |                          |                      |             | Horizon | Karachle, P.K., Corsini Foka, M., cCrocetta, F., Dulčić, J., Dzhebekova, N., Galanidi, M., ... Zenetos, A. (2017). Setting-up a billboard of marine invasive species in the ESENIAS area: current situation and future expectancies. <i>Acta Adriatica</i> , 58 (3), 429-456. <a href="https://doi.org/10.32582/aa.58.3.4">https://doi.org/10.32582/aa.58.3.4</a> |
| <b>Macrophytes</b> |                                 |                          |                      |             |         |   |
| Freshwater         | <i>Egeria densa</i>             | Large-flowered waterweed |                      | Skadar Lake | Unknown | The Sixth National Report Of Montenegro to the United Nations Convention on Biological Diversity, 2018  |
| Freshwater         | <i>Vallisneria spiralis L.</i>  | Straight vallisneria     |                      |             | Unknown | Hussner, A. (2012). Alien aquatic plant species in European. <i>Weed Research</i> , Vol 52(4): 297-306.; Pulević, V. 2005: Građa za vaskularnu floru Crne Gore, Dopuna "Conspectus Florae Montenegrinae" J. Rohlene - Republički Zavod za zaštitu prirode Crne Gore, Posebna izdanja, knj. 2, Podgorica., 218 pp. countries. <i>Weed Research</i> . 52, 297–306.  |
| Freshwater         | <i>Elodea canadensis Michx.</i> | American waterweed       | Kanadska vodena kuga | Ulcinj      | Unknown | Bubanja & Stevanović: <i>Elodea canadensis Michx.</i> New species of flora in Montenegro. <i>Natura Montenegrina</i> , Podgorica, 2013, 12(1): 7-12   |

|            |                                   |                     |  |             |                                       |  |  |
|------------|-----------------------------------|---------------------|--|-------------|---------------------------------------|--|--|
| Freshwater | <i>Hydrocharis morsus</i>         |                     |  | Skadar Lake | acclimatized only in restricted areas |  | Petrović, D., Stešević, D., Vuksanović, S. 2008. Materials for the red book of Montenegro. <i>Natura Montenegrina</i> 7(2): 605-631  |
| Freshwater | <i>Arundo donax</i>               | Elephant grass      |  | Ulcinj      | acclimatized                          |  | Nikčević J. (2010). Some ecological data of Coleoptera in a beach dune system of Long Ulcinj Beach in Montenegro. <i>Natura Montenegrina</i> , Podgorica, 2010, 10(1): 41-48   |
| Freshwater | <i>Cabomba caroliniana</i>        |                     |  |             | horizon                               |  | Cabi, 2021   |
| Freshwater | <i>Cyperus rotundus</i>           | Java grass          |  | Ulcinj      | acclimatized                          |  | Nikčević, J. (2010). Some ecological data of Coleoptera in a beach dune system of Long Ulcinj Beach in Montenegro. <i>NATURA MONTENEGRINA</i> , Podgorica, 2010, 10(1): 41-48  |
| Freshwater | <i>Elodea nuttallii</i>           |                     |  |             | unknown                               |  | Hussner, A. (2012). Alien aquatic plant species in European. <i>Weed Research</i> , Vol 52(4): 297-306.<br><br>Pulević, V. 2005: Građa za vaskularnu floru Crne Gore, Dopuna "Conspectus Florae Montenegrinae" J. Rohlene Republički Zavod za zaštitu prirode Crne Gore, Posebna izdanja, knj. 2, Podgorica., 218 pp. countries. <i>Weed Research</i> . 52, 297–306. |
| Freshwater | <i>Juncus effuses</i>             |                     |  |             | unknown                               |  | <a href="https://rainforests.mongabay.com/biodiversity/en/montenegro/LILIOPSISIDA.html">https://rainforests.mongabay.com/biodiversity/en/montenegro/LILIOPSISIDA.html</a>  |
| Freshwater | <i>Ludwigia palustris</i>         |                     |  |             | Unknown                               |  | Lakusić R, Pavlović D. Vegetacija Skadarskog jezera. <i>Glasnik Reickog Zavoda za Zastitu Prirode i Prirodnjackog Muzeja Titogradu</i> . 1976;9:45–50.   |
| Freshwater | <i>Ludwigia peploides</i>         |                     |  |             | Horizon                               |  | <a href="https://www.codeplantesenvahissantes.fr/fileadmin/PE/E_Ressources/RTE/RE_1143_Ludwigia_peploides.pdf">https://www.codeplantesenvahissantes.fr/fileadmin/PE/E_Ressources/RTE/RE_1143_Ludwigia_peploides.pdf</a>  |
| Freshwater | <i>Lythrum salicaria</i>          |                     |  |             | Horizon                               |  | Cabi, 2021   |
| Freshwater | <i>Myriophyllum heterophyllum</i> |                     |  |             | Horizon                               |  | Cabi, 2021   |
| Freshwater | <i>Myriophyllum spicatum</i>      | spiked watermilfoil |  |             | Horizon                               |  | Cabi, 2021   |
| Freshwater | <i>Nymphoides peltata</i>         |                     |  |             | Horizon                               |  | Cabi, 2021   |

|                      |   |                   |  |                   |              |         |   |
|----------------------|---|-------------------|--|-------------------|--------------|---------|---|
| Freshwater           | <i>Paspalum distichum</i>               |                   |  |                   | Unknown      |         | Stešević D, Petrović D (2010) Preliminary list of plant invaders in Montenegro. <i>Biologica Nyssana</i> 1: 35-42   |
| Freshwater           | <i>Paspalum dilatatum</i>               |                   |  |                   | Unknown      |         | Stešević D, Petrović D (2010) Preliminary list of plant invaders in Montenegro. <i>Biologica Nyssana</i> 1: 35-42   |
| Freshwater           | <i>Polypogon monspelicansis</i>         |                   |  |                   | horizon      |         | Cabi, 2021  |
| Freshwater           | <i>Utricularia gibba /</i>              |                   |  |                   | horizon      |         | Cabi, 2021  |
| Freshwater           | <i>Typha domingensis</i>                |                   |  |                   | Acclimatized |         | Rohlens J. 1942. <i>Conspectus Florae Montenegrinae</i> . <i>Preslia</i> 20-21: 1-506   |
| Freshwater           | <i>Ammannia verticillata (Ard.) Lam</i> |                   |  |                   | Unknown      |         | Lansdown, R., Anastasiu, P., Barina, Z., Bazos, I., Çakan, H., Caković, D., Delipetrou, P., Matevski, V., Mitić, B. & Ruprecht, E. (2016) Review of Alien Freshwater Vascular Plants in South-east Europe. U: Rat, M., Katsanevakis, S., Rozyłowicz, L., Solarz, W. & Spassov, N. (ur.) <i>ESENIAS Scientific Reports 1. State of the Art of Alien Species in South - Eastern Europe</i> . Novi Sad, University of Novi Sad, Serbia; IBER-BAS, Bulgaria ; ESENIAS, str. 137-154 |
| <b>Invertebrates</b> |   |                   |  |                   |              |         |   |
| Marine               | <i>Paraleucilla magna</i>               | calcareous sponge |  | Boka Kotorska Bay | Extant       | Unknown | Mačić V. & Petrović S. 2016. New data on the distribution of the alien sponge <i>Paraleucilla magna</i> Klautau, Monteiro & Borojević, 2004 in the Adriatic Sea. <i>Studia Marina</i> 29 (1): 63-68.  |
| Marine               | <i>Aplysia dactylomela</i>              | spotted sea hare  |  | Herceg Novi       | Extant       | Unknown | Mačić V. & Kljajić Z. 2012. Pregled unešenih vrsta u crnogorskom podmorju (In Serbian). <i>Vode, Divčibare</i> , pp. 255-260  |
| Marine               | <i>Bursatella leachi</i>                | ragged sea hare   |  | Boka Kotorska bay | Extant       | Unknown | Zenetos A., Katsanevakis S., Beqiraj S., Mačić V., Poursanidis D. & Kashta L. 2011. Rapid assessment survey of marine alien species in the Albanian and Montenegrin coast. Technical report. RAC/SPA, N° 37/38/39/2010: 54  |
| Marine               | <i>Melibe viridis</i>                   | sea slug          |  | Boka Kotorska bay | Extant       | Unknown | Jančić G. 2004. <i>Melibe</i> from the Adriatic. [Message in] <i>SeaSlug Forum</i> . Australian Museum, Sydney. <a href="http://www.seaslugforum.net/fnd.cfm?id=12280">http://www.seaslugforum.net/fnd.cfm?id=12280</a> .   |
| Marine               | <i>Thecacera pennigera</i>              | winged thecacera  |  | Tivat             | Extant       | Unknown | Petrović S. & Lipej L. 2014. First record of the sea slug <i>Thecacera pennigera</i> (Montagu, 1815), (Nudibranchia, Polyceridae) in the Adriatic Sea in: V. Gerovasileiou et al.:  |

|        |                                   |                       |  |                   |        |                               |  |
|--------|-----------------------------------|-----------------------|--|-------------------|--------|-------------------------------|--|
|        |                                   |                       |  |                   |        |                               | New Mediterranean Biodiversity Records, Mediterranean Marine Science 18: 366-368.  |
| Marine | <i>Anadara transversa</i>         | transverse ark clam   |  | Boka Kotorska bay | Extant | Unknown                       | Petović S., Gvozdenović S. & Ikica Z. 2017. An Annotated Checklist of the Marine Molluscs of the South Adriatic Sea (Montenegro) and a Comparison with Those of Neighbouring Areas. Turkish Journal of Fisheries and Aquatic Sciences 17: 921-934  |
| Marine | <i>Arcuatula senhousia</i>        | Asian date mussel     |  | Bar and Ulcinj    | Extant | Lessepien migration           | Petović S., Gvozdenović S. & Ikica Z. 2017. An Annotated Checklist of the Marine Molluscs of the South Adriatic Sea (Montenegro) and a Comparison with Those of Neighbouring Areas. Turkish Journal of Fisheries and Aquatic Sciences 17: 921-934  |
| Marine | <i>Ruditapes philippinarum</i>    | Japanese carpet shell |  | Ulcinj            | Extant | Unknown                       | Petović S., Gvozdenović S. & Ikica Z. 2017. An Annotated Checklist of the Marine Molluscs of the South Adriatic Sea (Montenegro) and a Comparison with Those of Neighbouring Areas. Turkish Journal of Fisheries and Aquatic Sciences 17: 921-934  |
| Marine | <i>Teredo navalis</i>             | naval shipworm        |  | Kotor             | Extant | Unknown                       | Stjepčević J. 1967. Makro-Mollusca Bokokotorskog zaliva (In Serbian). Studia Marina 2: 3-67.   |
| Marine | <i>Pinctada imbricata radiata</i> | Rayed pearl oyster    |  | Boka Kotorska bay | Extant | Lessepien migration           | Petović S. & Mačić V. 2017. New data on Pinctada radiata (Leach, 1814) (Bivalvia: Pteriidae) in the Adriatic Sea. Acta Adriatica 58(2): 359 - 364.   |
| Marine | <i>Magallana gigas</i>            | Japanese oyster       |  | Boka Kotorska bay | Extant | introduced due to cultivation | Stjepčević J., Mandić S. & Dragović R. 1977. Mogućnost industrijskog uzgoja jestivih školjkaša u Bokokotorskom zalivu i uvođenja novih vrsta u proces uzgoja (In Serbian). Ichthyologia 9 (1): 107-120.  |
| Marine | <i>Rapana venosa</i>              | veined rapa whelk     |  | Herceg Novi       | Extant | Unknown                       | Kousteni, V., Bakiu, R., Benhmida, A., Crocetta, F., Di Martino, V., Dogrammatzi, A., Doumpas, N., Durmishaj, S., Grovos, I., Gökoğlu, M., Huseynoglu, M., Jimenez, C., Kalogirou, S., Kleitou, P., Lipej, I., Macali, A., Petani, A., Petović, S., Prato, E., Fernando, R., Sghaier, Y., Stancanelli, B., Teker, S., Tiralongo, F., & Trkov, D. (2019). "New Mediterranean Biodiversity Records" April 2019. Mediterranean Marine Science, 20(1), 230-247. doi:https://doi.org/10.12681/mms.19609 |
| Marine | <i>Penaeus aztecus</i>            | brown shrimp          |  | Boka Kotorska bay | Extant | ballast water                 | Marković O. & Djurović M. 2014. First documented record of the American blue crab, <i>Callinectes sapidus</i> Rathbun, 1896 in the Boka Kotorska Bay, South Adriatic sea, Montenegro. In: Kapisir et al., 2014. New Mediterranean Marine biodiversity records (April, 2014). Mediterranean Marine Science 15 (1): 198-212  |
| Marine | <i>Callinectes sapidus</i>        | Blue crab             |  | Whole coast       | Extant | ballast water                 | Zenetos A., Katsanevakis S., Beqiraj S., Mačić V., Poursanidis D. & Kashta L. 2011. Rapid assessment   |

|        |                               |                    |  |                  |         |                        |  |
|--------|-------------------------------|--------------------|--|------------------|---------|------------------------|--|
|        |                               |                    |  |                  |         |                        | survey of marine alien species in the Albanian and Montenegrin coast. Technical report. RAC/SPA, N° 37/38/39/2010: 54  |
| Marine | <i>Amphibalanus eburneus</i>  | ivory barnacle     |  | Kotor            | Extant  | ballast water          | Igić Lj. 1983. Karakteristike obraštaja u Kotorskom zalivu Fouling characteristics in Kotor Bay. (In Serbian) Studia Marina 13-14: 275-292.  |
| Marine | <i>Hydroides dirampha</i>     | Tubeworm           |  | Bar              | Extant  | Unknown                | Spagnolo A., Auriemma R., Bacci T., Balković I., Bertasi F., Bolognini L., Cabrini M., Cilenti L., Cuicchi C., Cvitković I., Despalatović M., Grati F., Grossi L., Jaklin A., Lipej L., Marković O., Mavrič B., Mikac B., Nasi F., Nerlović V., Pelosi S., Penna M., Petović S., Punzo E., Santucci A., Scirocco T., Strafella P., Trabucco B., Travizi A. & Žuljević A. 2019. Non-indigenous macrozoobenthic species on hard substrata of Selected harbours in the Adriatic Sea. Marine Pollution Bulletin 147: 150-158.  |
| Marine | <i>Palola valida</i>          | Unknown            |  | Bar              | Extant  | Unknown                | Spagnolo A., Auriemma R., Bacci T., Balković I., Bertasi F., Bolognini L., Cabrini M., Cilenti L., Cuicchi C., Cvitković I., Despalatović M., Grati F., Grossi L., Jaklin A., Lipej L., Marković O., Mavrič B., Mikac B., Nasi F., Nerlović V., Pelosi S., Penna M., Petović S., Punzo E., Santucci A., Scirocco T., Strafella P., Trabucco B., Travizi A. & Žuljević A. 2019. Non-indigenous macrozoobenthic species on hard substrata of Selected harbours in the Adriatic Sea. Marine Pollution Bulletin 147: 150-158.  |
| Marine | <i>Bugula neritina</i>        | brown bryozoan     |  | Bar and Boka bay | Extant  | fouling on ships       | Spagnolo A., Auriemma R., Bacci T., Balković I., Bertasi F., Bolognini L., Cabrini M., Cilenti L., Cuicchi C., Cvitković I., Despalatović M., Grati F., Grossi L., Jaklin A., Lipej L., Marković O., Mavrič B., Mikac B., Nasi F., Nerlović V., Pelosi S., Penna M., Petović S., Punzo E., Santucci A., Scirocco T., Strafella P., Trabucco B., Travizi A. & Žuljević A. 2019. Non-indigenous macrozoobenthic species on hard substrata of Selected harbours in the Adriatic Sea. Marine Pollution Bulletin 147: 150-158.  |
| Marine | <i>Styela plicata</i>         | pleated sea squirt |  | Bar and Boka bay | Extant  | Ships and sea currents | Yokeş, M., Andreou, V., Bakiu, R., Bonanomi, S., Camps, J., Christidis, G., Crocetta, f., Givos, I., Gori, A., Juretić, T., Ūnsal Karhan, S., Katsanevakis, S., Kytinou, E., Langeneck, J., Lipej, I., Maximadi, M., Michailidis, N., Mitsou, E., Nicolaidou, A., Petović, S., Prado, P., Santín, A., Teneketzis, K., Thasitis, I., Tirelli, V., Trkov, D., Troplini, E., Tsiamis, K., & Vannucci, A. (2018). New Mediterranean Biodiversity Records. Mediterranean Marine Science, 19(3), 673-689. doi: <a href="https://doi.org/10.12681/mms.19386">https://doi.org/10.12681/mms.19386</a> |
| Marine | <i>Brachidontes pharaonis</i> |                    |  |                  | Horizon |                        | CABI 2021  |

|        |                                       |                   |  |  |         |  |   |
|--------|---------------------------------------|-------------------|--|--|---------|--|---|
| Marine | <i>Diplosoma listerianum</i>          |                   |  |  | Horizon |  | CABI 2021   |
| Marine | <i>Ficopomatus enigmaticus</i>        | tubeworm          |  |  | Horizon |  | Karachle, P.K., Corsini Foka, M., Crocetta, F., Dulčić, J., Dzhebekova, N., Galanidi, M., ... Zenetos, A. (2017). Setting-up a billboard of marine invasive species in the ESENIAS area: current situation and future expectancies. <i>Acta Adriatica</i> , 58 (3), 429-456. <a href="https://doi.org/10.32582/aa.58.3.4">https://doi.org/10.32582/aa.58.3.4</a>              |
| Marine | <i>Hemigrapsus sanguineus</i>         | Asian shore crab  |  |  | Horizon |  | CABI 2021<br>Karachle, P.K., Corsini Foka, M., Crocetta, F., Dulčić, J., Dzhebekova, N., Galanidi, M., ... Zenetos, A. (2017). Setting-up a billboard of marine invasive species in the ESENIAS area: current situation and future expectancies. <i>Acta Adriatica</i> , 58 (3), 429-456. <a href="https://doi.org/10.32582/aa.58.3.4">https://doi.org/10.32582/aa.58.3.4</a> |
| Marine | <i>Desdemona ornata</i>               | calcareous sponge |  |  | horizon |  | CABI 2021<br>Karachle, P.K., Corsini Foka, M., Crocetta, F., Dulčić, J., Dzhebekova, N., Galanidi, M., ... Zenetos, A. (2017). Setting-up a billboard of marine invasive species in the ESENIAS area: current situation and future expectancies. <i>Acta Adriatica</i> , 58 (3), 429-456. <a href="https://doi.org/10.32582/aa.58.3.4">https://doi.org/10.32582/aa.58.3.4</a> |
| Marine | <i>Polydora cornuta</i>               |                   |  |  | horizon |  | Karachle, P.K., Corsini Foka, M., Crocetta, F., Dulčić, J., Dzhebekova, N., Galanidi, M., ... Zenetos, A. (2017). Setting-up a billboard of marine invasive species in the ESENIAS area: current situation and future expectancies. <i>Acta Adriatica</i> , 58 (3), 429-456. <a href="https://doi.org/10.32582/aa.58.3.4">https://doi.org/10.32582/aa.58.3.4</a>              |
| Marine | <i>Pseudopolydora paucibranchiata</i> |                   |  |  | horizon |  | Karachle, P.K., Corsini Foka, M., Crocetta, F., Dulčić, J., Dzhebekova, N., Galanidi, M., ... Zenetos, A. (2017). Setting-up a billboard of marine invasive species in the ESENIAS area: current situation and future expectancies. <i>Acta Adriatica</i> , 58 (3), 429-456. <a href="https://doi.org/10.32582/aa.58.3.4">https://doi.org/10.32582/aa.58.3.4</a>              |
| Marine | <i>Amathia verticillata</i>           |                   |  |  | horizon |  | Karachle, P.K., Corsini Foka, M., Crocetta, F., Dulčić, J., Dzhebekova, N., Galanidi, M., ... Zenetos, A. (2017). Setting-up a billboard of marine invasive species in the ESENIAS area: current situation and future expectancies. <i>Acta Adriatica</i> , 58 (3), 429-456. <a href="https://doi.org/10.32582/aa.58.3.4">https://doi.org/10.32582/aa.58.3.4</a>              |
| Marine | <i>Diadumene lineata</i>              |                   |  |  | horizon |  | Karachle, P.K., Corsini Foka, M., Crocetta, F., Dulčić, J., Dzhebekova, N., Galanidi, M., ... Zenetos, A. (2017). Setting-up a billboard of marine invasive species in the ESENIAS area: current situation and future   |

|        |                              |                       |  |  |         |   |
|--------|------------------------------|-----------------------|--|--|---------|---|
|        |                              |                       |  |  |         | expectancies. Acta Adriatica, 58 (3), 429-456. <a href="https://doi.org/10.32582/aa.58.3.4">https://doi.org/10.32582/aa.58.3.4</a>  |
| Marine | <i>Clytia hummelincki</i>    |                       |  |  | horizon | KARACHLE, P.K., CORSINI FOKA, M., CROCETTA, F., DULČIĆ, J., DZHEMBEKOVA, N., GALANIDI, M., ... ZENETOS, A. (2017). Setting-up a billboard of marine invasive species in the ESENIAS area: current situation and future expectancies. Acta Adriatica, 58 (3), 429-456. <a href="https://doi.org/10.32582/aa.58.3.4">https://doi.org/10.32582/aa.58.3.4</a> |
| Marine | <i>Clytia linearis</i>       |                       |  |  | horizon | Karachle, P.K., Corsini Foka, M., Crocetta, F., Dulčić, J., Dzhezbekova, N., Galanidi, M., ... Zenetos, A. (2017). Setting-up a billboard of marine invasive species in the ESENIAS area: current situation and future expectancies. Acta Adriatica, 58 (3), 429-456. <a href="https://doi.org/10.32582/aa.58.3.4">https://doi.org/10.32582/aa.58.3.4</a> |
| Marine | <i>Garveia franciscana</i>   |                       |  |  | horizon | Karachle, P.K., Corsini Foka, M., Crocetta, F., Dulčić, J., Dzhezbekova, N., Galanidi, M., ... Zenetos, A. (2017). Setting-up a billboard of marine invasive species in the ESENIAS area: current situation and future expectancies. Acta Adriatica, 58 (3), 429-456. <a href="https://doi.org/10.32582/aa.58.3.4">https://doi.org/10.32582/aa.58.3.4</a> |
| Marine | <i>Cassiopea andromeda</i>   | Upside-down jollyfish |  |  | horizon | Karachle, P.K., Corsini Foka, M., Crocetta, F., Dulčić, J., Dzhezbekova, N., Galanidi, M., ... Zenetos, A. (2017). Setting-up a billboard of marine invasive species in the ESENIAS area: current situation and future expectancies. Acta Adriatica, 58 (3), 429-456. <a href="https://doi.org/10.32582/aa.58.3.4">https://doi.org/10.32582/aa.58.3.4</a> |
| Marine | <i>Percnon gibbesi</i>       | Nimble spray crab     |  |  | horizon | Karachle, P.K., Corsini Foka, M., Crocetta, F., Dulčić, J., Dzhezbekova, N., Galanidi, M., ... Zenetos, A. (2017). Setting-up a billboard of marine invasive species in the ESENIAS area: current situation and future expectancies. Acta Adriatica, 58 (3), 429-456. <a href="https://doi.org/10.32582/aa.58.3.4">https://doi.org/10.32582/aa.58.3.4</a> |
| Marine | <i>Mnemiopsis leidyi</i>     | Sea walnut            |  |  | horizon | Karachle, P.K., Corsini Foka, M., Crocetta, F., Dulčić, J., Dzhezbekova, N., Galanidi, M., ... Zenetos, A. (2017). Setting-up a billboard of marine invasive species in the ESENIAS area: current situation and future expectancies. Acta Adriatica, 58 (3), 429-456. <a href="https://doi.org/10.32582/aa.58.3.4">https://doi.org/10.32582/aa.58.3.4</a> |
| Marine | <i>Anadara kagoshimensis</i> | Ark clam              |  |  | horizon | Karachle, P.K., Corsini Foka, M., Crocetta, F., Dulčić, J., Dzhezbekova, N., Galanidi, M., ... Zenetos, A. (2017). Setting-up a billboard of marine invasive species in the ESENIAS area: current situation and future expectancies. Acta Adriatica, 58 (3), 429-456. <a href="https://doi.org/10.32582/aa.58.3.4">https://doi.org/10.32582/aa.58.3.4</a> |

|            |  |                      |  |             |              |  |
|------------|--|----------------------|--|-------------|--------------|--|
| Marine     | <i>Anadara transversa</i>                  | Transverse ark clam  |  |             | horizon      | Karachle, P.K., Corsini Foka, M., Crocetta, F., Dulčić, J., Dzhebekova, N., Galanidi, M., ... Zenetos, A. (2017). Setting-up a billboard of marine invasive species in the ESENIAS area: current situation and future expectancies. Acta Adriatica, 58 (3), 429-456. <a href="https://doi.org/10.32582/aa.58.3.4">https://doi.org/10.32582/aa.58.3.4</a>   |
| Marine     | <i>Asciidiella aspersa</i>                 |                      |  |             | horizon      | Karachle, P.K., Corsini Foka, M., Crocetta, F., Dulčić, J., Dzhebekova, N., Galanidi, M., ... Zenetos, A. (2017). Setting-up a billboard of marine invasive species in the ESENIAS area: current situation and future expectancies. Acta Adriatica, 58 (3), 429-456. <a href="https://doi.org/10.32582/aa.58.3.4">https://doi.org/10.32582/aa.58.3.4</a>   |
| Marine     | <i>Ciona robusta</i>                       |                      |  |             | horizon      | Karachle, P.K., Corsini Foka, M., Crocetta, F., Dulčić, J., Dzhebekova, N., Galanidi, M., ... Zenetos, A. (2017). Setting-up a billboard of marine invasive species in the ESENIAS area: current situation and future expectancies. Acta Adriatica, 58 (3), 429-456. <a href="https://doi.org/10.32582/aa.58.3.4">https://doi.org/10.32582/aa.58.3.4</a>   |
| Marine     | <i>Styela clava</i>                        |                      |  |             | horizon      | Karachle, P.K., Corsini Foka, M., Crocetta, F., Dulčić, J., Dzhebekova, N., Galanidi, M., ... Zenetos, A. (2017). Setting-up a billboard of marine invasive species in the ESENIAS area: current situation and future expectancies. Acta Adriatica, 58 (3), 429-456. <a href="https://doi.org/10.32582/aa.58.3.4">https://doi.org/10.32582/aa.58.3.4</a>   |
| Marine     | <i>Styela plicata</i>                      |                      |  |             | horizon      | Karachle, P.K., Corsini Foka, M., Crocetta, F., Dulčić, J., Dzhebekova, N., Galanidi, M., ... Zenetos, A. (2017). Setting-up a billboard of marine invasive species in the ESENIAS area: current situation and future expectancies. Acta Adriatica, 58 (3), 429-456. <a href="https://doi.org/10.32582/aa.58.3.4">https://doi.org/10.32582/aa.58.3.4</a>   |
| Freshwater | <i>Aedes albopictus</i> Skuse, 1894        | Asian tiger mosquito |  |             | Unknown      | <a href="https://www.researchgate.net/publication/260049667_Possible_establishment_of_Aedes_albopictus_Skuse_1894_in_Serbia_and_Montenegro">https://www.researchgate.net/publication/260049667_Possible_establishment_of_Aedes_albopictus_Skuse_1894_in_Serbia_and_Montenegro</a>  |
| Freshwater | <i>Trithemis annulata</i> , Beauvois, 1807 | Violet dropwing      |  |             | Acclimatized | G. De Knijf , C. Vanappelghem and H. Demolder, 2013. Odonata from Montenegro, with notes on taxonomy, regional diversity and conservation. Odonatologica 42(1): 1-29   |
| Freshwater | <i>Dreissena polymorpha</i> Pallas, 1871   |                      |  | Skadar Lake | Unknown      | Pešić V., Karaman G.S., Kostianoy A.G., Vukašinić-Pešić V. (2018) Conclusions: Recent Advances and the Future Prospects of the Lake Skadar/Shkodra Environment. In: Pešić V., Karaman G., Kostianoy A. (eds) The Skadar/Shkodra Lake Environment. The Handbook of Environmental Chemistry, vol 80. Springer, Cham. <a href="https://doi.org/10.1007/698_2018_274">https://doi.org/10.1007/698_2018_274</a> |

|             |   |                         |              |                      |             |  |  |
|-------------|---|-------------------------|--------------|----------------------|-------------|--|--|
| Freshwater  | <i>Sinanodonta woodiana</i> (Lea, 1834)             |                         |              |                      | horizon     |  | Cabi 2021  |
| Freshwater  | <i>Corbicula fluminalis</i> (Müller 1774)           |                         |              |                      | horizon     |  | Cabi 2021  |
| Freshwater  | <i>Corbicula fluminea</i> (Müller 1774)             |                         |              |                      | horizon     |  | Cabi 2021  |
| Freshwater  | <i>Chelicorophium curvispinum</i> (G.O. Sars, 1985) |                         |              |                      | horizon     |  | Cabi 2021  |
| Freshwater  | <i>Dikerogammarus villosus</i> (Sowinsky, 1894)     |                         |              |                      | horizon     |  | Cabi 2021  |
| Freshwater  | <i>Eriocheir sinensis</i> (Edwards, 1853)           |                         |              |                      | horizon     |  | Cabi 2021  |
| Freshwater  | <i>Hemimysis anomala</i> (G.O. Sars, 1907)          |                         |              |                      | horizon     |  | Cabi 2021  |
| Freshwater  | <i>Limnomysis benedeni</i> (Czerniavsky, 1882)      |                         |              |                      | horizon     |  | Cabi 2021  |
| Freshwater  | <i>Craspedacusta sowerbii</i>                       | peach blossom jellyfish |              | Yangtze River, China | Naturalized | artificial impoundments or botanical ponds | Milovanović, D, Živković A (1965) Plankton Skadarskog jezera (1957–1958). Zbornik Radova Biol Inst Beograd 8:1–36;<br><br>Pulevic, V., Hadžiablahovic, S., Kasom, G., Rakocevic Nedovic, J., Nikcevic, S., Pešić, V., Ražnatovic, A., Cirovic, R., Saveljic, D., Buškovic, Dhimitër, D., Lefter, K., Fatbrdh, S., Idriz, H., Taulant, B., Ferdinand, B., Rrok, S., Marash, R. (2001). Biodiversity database of the Shkodra/Skadar Lake. Project: Floristic diversity of Balkan (Promotion of networks and exchanges in the countries of the South Eastern Europe). <a href="https://www.researchgate.net/publication/285736522_Biodiversity_database_of_the_ShkodraSkadar_Lake#ullTextFileContent">https://www.researchgate.net/publication/285736522_Biodiversity_database_of_the_ShkodraSkadar_Lake#ullTextFileContent</a> |
| <b>Fish</b> |   |                         |              |                      |             |  |  |
| Marine      | <i>Fistularia commersonii</i>                       | bluespotted cornetfish  | Riba truba   | Boka bay, Budva, Bar | Extant      | Lessepien migration                        | Joksimović, B. Dragičević and J. Dulčić, "Additional record of <i>Fistularia commersonii</i> from the Adriatic Sea (Montenegrin coast)," <i>Marine Biodiversity Records</i> , vol. 6232, pp. 1-4, 2008.  |
| Marine      | <i>Lagocephalus sceleratus</i>                      | silver-cheeked toadfish | Cetvorozupka | Budva and Boka bay   | Extant      | Lessepien migration                        | Joksimović, S. Regner, J. Dulčić, A. Pešić, O. Marković, Z. Ikica and M. Đurović, "Scientific monitoring of the alien fish and crustaceans species in the Adriatic Sea (Montenegrin coast)," in „Water & Fish“ 7th International Conference proceedings, Belgrade, 2015.   |

|        |                                |                       |                  |                      |        |                     |  |
|--------|--------------------------------|-----------------------|------------------|----------------------|--------|---------------------|--|
| Marine | <i>Siganus luridus</i>         | dusky spinefoot       | Tamna mramornica | Budva and Bigova bay | Extant | Lessepien migration | Joksimović, S. Regner, J. Dulčić, A. Pešić, O. Marković, Z. Ikica and M. Đurović, "Scientific monitoring of the alien fish and crustaceans species in the Adriatic Sea (Montenegrin coast)," in „Water & Fish“ 7th International Conference proceedings, Belgrade, 2015.   |
| Marine | <i>Caranx crysos</i>           | Blue runner           | Plavi trkac      | Whole coast          | Extant | Unknown             | Dulčić, J., B. Dragičević, M. Pavičić, Z. Ikica, A. Joksimović and O. Marković, "Additional records of non-indigenous, rare and less known fishes in the Eastern Adriatic," <i>Annales Ser hist nat</i> , vol. 24(1), pp. 17-22, 2014.   |
| Marine | <i>Tylosurus imperialis</i>    | agujon needlefish     | Carska iglica    | Whole coast          | Extant | Unknown             | Dulčić, J., B. Dragičević, M. Pavičić, Z. Ikica, A. Joksimović and O. Marković, "Additional records of non-indigenous, rare and less known fishes in the Eastern Adriatic," <i>Annales Ser hist nat</i> , vol. 24(1), pp. 17-22, 2014. ; A. Joksimović, A. Pešić, Z. Ikica, O. Marković and M. Đurović, "New additional records of <i>Tylosurus acus imperialis</i> (Rafinesque, 1810) in the Adriatic Sea (Montenegrin coast)," in International scientific conference "Integrated Coastal Zone Management in the Adriatic Sea" - Book of abstracts, Kotor, Montenegro, 2014. |
| Marine | <i>Sphoeroides pachygaster</i> | blunthead puffer      | Cetvorozupka     | Whole coast          | Extant | Through Gibraltar   | Joksimović, S. Regner, J. Dulčić, A. Pešić, O. Marković, Z. Ikica and M. Đurović, "Scientific monitoring of the alien fish and crustaceans species in the Adriatic Sea (Montenegrin coast)," in „Water & Fish“ 7th International Conference proceedings, Belgrade, 2015.   |
| Marine | <i>Stephanolepis diaspros</i>  | reticulated filefish  | Africki kostorog | Whole coast          | Extant | Lessepien migration | Dulčić J. and A. Pallaoro, "First record of the filefish, <i>Stephanolepis diaspros</i> (Monacanthidae), in the Adriatic Sea," <i>Cybiurn</i> , vol. 27, pp. 321-322, 2003.  |
| Marine | <i>Siganus rivulatus</i>       | marbled spinefoot     |                  |                      | Extant |                     | Pešić A., Marković O., Joksimović A., Četković I., Jevremović A. (2020) Invasive Marine Species in Montenegro Sea Waters. In: Joksimović A., Đurović M., Zonn I.S., Kostianoy A.G., Semenov A.V. (eds) The Montenegrin Adriatic Coast. The Handbook of Environmental Chemistry, vol 109. Springer, Cham. <a href="https://doi.org/10.1007/698_2020_700">https://doi.org/10.1007/698_2020_700</a>   |
| Marine | <i>Saurida undosquamis</i>     | brushtooth lizardfish |                  |                      | Extant |                     | Pešić A., Marković O., Joksimović A., Četković I., Jevremović A. (2020) Invasive Marine Species in Montenegro Sea Waters. In: Joksimović A., Đurović M., Zonn I.S., Kostianoy A.G., Semenov A.V. (eds) The Montenegrin Adriatic Coast. The Handbook of Environmental Chemistry, vol 109. Springer, Cham. <a href="https://doi.org/10.1007/698_2020_700">https://doi.org/10.1007/698_2020_700</a>   |
| Marine | <i>Inistius pavo</i>           | peacock wrasse        |                  |                      | Extant |                     | Pešić A., Marković O., Joksimović A., Četković I., Jevremović A. (2020) Invasive Marine Species in   |

|            |                               |                        |                               |   |  |              |  |   |
|------------|-------------------------------|------------------------|-------------------------------|---|--|--------------|--|---|
|            |                               |                        |                               |   |  |              | Montenegro Sea Waters. In: Joksimović A., Đurović M., Zonn I.S., Kostianoy A.G., Semenov A.V. (eds) The Montenegrin Adriatic Coast. The Handbook of Environmental Chemistry, vol 109. Springer, Cham. <a href="https://doi.org/10.1007/698_2020_700">https://doi.org/10.1007/698_2020_700</a>  |   |
| Marine     | <i>Sphyaenaviridensis</i>     | yellowmouth barracuda  |                               |   |  | Extant       | Pešić A., Marković O., Joksimović A., Četković I., Jevremović A. (2020) Invasive Marine Species in Montenegro Sea Waters. In: Joksimović A., Đurović M., Zonn I.S., Kostianoy A.G., Semenov A.V. (eds) The Montenegrin Adriatic Coast. The Handbook of Environmental Chemistry, vol 109. Springer, Cham. <a href="https://doi.org/10.1007/698_2020_700">https://doi.org/10.1007/698_2020_700</a> |   |
| Marine     | <i>Sphyaena chrysotaenia</i>  | yellowstripe barracuda |                               |   |  | Extant       | Pešić A., Marković O., Joksimović A., Četković I., Jevremović A. (2020) Invasive Marine Species in Montenegro Sea Waters. In: Joksimović A., Đurović M., Zonn I.S., Kostianoy A.G., Semenov A.V. (eds) The Montenegrin Adriatic Coast. The Handbook of Environmental Chemistry, vol 109. Springer, Cham. <a href="https://doi.org/10.1007/698_2020_700">https://doi.org/10.1007/698_2020_700</a> |   |
| Freshwater | <i>Ameiurus nebulosus</i>     | Brown bullhead         | patuljasti američki somić     | Krupac, Slano and Skadar lake                             |  | Naturalized  | Unintentional  | Piria, M., Simonović, P., Kalogianni, E., Vardakas, L., Koutsikos, N., Zanella, D., Ristovska, M., Apostolou, A., Adrović, A., Mrdak, D., Tarkan, A. S., Milošević, D., Zanella, L. N., Bakiu, R., Ekmekçi, F. G., Povž, M., Korro, K., Nikolić, V., Škrijelj, R., Kostov, V., Gregori, A., Joy, M. K., 2017. Alien freshwater fish species in the Balkans - vectors and pathways of introduction. Fish and Fisheries, Vol 19/1, 138-169. |
| Freshwater | <i>Carassius gibelio</i>      | Gibel carp             | srebrni karaš, kinez, babuška | Skadar lake, Sasko lake, Moraca, Cijevna and Bojana river |  | Naturalized  | Aquaculture  | Piria, M., Simonović, P., Kalogianni, E., Vardakas, L., Koutsikos, N., Zanella, D., Ristovska, M., Apostolou, A., Adrović, A., Mrdak, D., Tarkan, A. S., Milošević, D., Zanella, L. N., Bakiu, R., Ekmekçi, F. G., Povž, M., Korro, K., Nikolić, V., Škrijelj, R., Kostov, V., Gregori, A., Joy, M. K., 2017. Alien freshwater fish species in the Balkans - vectors and pathways of introduction. Fish and Fisheries, Vol 19/1, 138-169. |
| Freshwater | <i>Ctenopharygodon idella</i> | Grass carp             | bijeli amur                   | Skadar lake   |  | Acclimatized | Aquaculture  | Piria, M., Simonović, P., Kalogianni, E., Vardakas, L., Koutsikos, N., Zanella, D., Ristovska, M., Apostolou, A., Adrović, A., Mrdak, D., Tarkan, A. S., Milošević, D., Zanella, L. N., Bakiu, R., Ekmekçi, F. G., Povž, M., Korro, K., Nikolić, V., Škrijelj, R., Kostov, V., Gregori, A., Joy, M. K., 2017. Alien freshwater fish species in the Balkans -  |

|            |                                    |                      |                    |   |              |                    |   |
|------------|------------------------------------|----------------------|--------------------|---|--------------|--------------------|---|
|            |                                    |                      |                    |   |              |                    | vectors and pathways of introduction. Fish and Fisheries, Vol 19/1, 138-169.  |
| Freshwater | <i>Gambusia holbrooki</i>          | Eastern mosquitofish | gambuzija          | Skadar lake, Sasko lake, Moraca, Cijevna and Bojana river | Naturalized  | Biological control | Piria, M., Simonović, P., Kalogianni, E., Vardakas, L., Koutsikos, N., Zanella, D., Ristovska, M., Apostolou, A., Adrović, A., Mrdak, D., Tarkan, A. S., Milošević, D., Zanella, L. N., Bakiu, R., Ekmekçi, F. G., Povž, M., Korro, K., Nikolić, V., Škrijelj, R., Kostov, V., Gregori, A., Joy, M. K., 2017. Alien freshwater fish species in the Balkans - vectors and pathways of introduction. Fish and Fisheries, Vol 19/1, 138-169. |
| Freshwater | <i>Hypophthalmichthys molitrix</i> | Silver carp          | bijeli tolstolobik | Skadar lake, Sasko lake                                   | Acclimatized | Aquaculture        | Piria, M., Simonović, P., Kalogianni, E., Vardakas, L., Koutsikos, N., Zanella, D., Ristovska, M., Apostolou, A., Adrović, A., Mrdak, D., Tarkan, A. S., Milošević, D., Zanella, L. N., Bakiu, R., Ekmekçi, F. G., Povž, M., Korro, K., Nikolić, V., Škrijelj, R., Kostov, V., Gregori, A., Joy, M. K., 2017. Alien freshwater fish species in the Balkans - vectors and pathways of introduction. Fish and Fisheries, Vol 19/1, 138-169. |
| Freshwater | <i>Hypophthalmichthys nobilis</i>  | Bighead carp         | sivi tolstolobik   | Skadar lake   | Acclimatized | Aquaculture        | Piria, M., Simonović, P., Kalogianni, E., Vardakas, L., Koutsikos, N., Zanella, D., Ristovska, M., Apostolou, A., Adrović, A., Mrdak, D., Tarkan, A. S., Milošević, D., Zanella, L. N., Bakiu, R., Ekmekçi, F. G., Povž, M., Korro, K., Nikolić, V., Škrijelj, R., Kostov, V., Gregori, A., Joy, M. K., 2017. Alien freshwater fish species in the Balkans - vectors and pathways of introduction. Fish and Fisheries, Vol 19/1, 138-169. |
| Freshwater | <i>Lepomis gibbosus</i>            | Pumpkinseed          | Sunčanica          | Krupac  | Naturalized  | Unintentional      | Piria, M., Simonović, P., Kalogianni, E., Vardakas, L., Koutsikos, N., Zanella, D., Ristovska, M., Apostolou, A., Adrović, A., Mrdak, D., Tarkan, A. S., Milošević, D., Zanella, L. N., Bakiu, R., Ekmekçi, F. G., Povž, M., Korro, K., Nikolić, V., Škrijelj, R., Kostov, V., Gregori, A., Joy, M. K., 2017. Alien freshwater fish species in the Balkans - vectors and pathways of introduction. Fish and Fisheries, Vol 19/1, 138-169. |
| Freshwater | <i>Megalobrama terminalis</i>      | Black Amur bream     | amurska deverika   | Skadar lake   | Unknown      | Aquaculture        | Piria, M., Simonović, P., Kalogianni, E., Vardakas, L., Koutsikos, N., Zanella, D., Ristovska, M., Apostolou, A., Adrović, A., Mrdak, D., Tarkan, A. S., Milošević, D., Zanella, L. N., Bakiu, R., Ekmekçi, F. G., Povž, M., Korro,   |

|            |                               |                  |                        |   |              |                      |   |
|------------|-------------------------------|------------------|------------------------|---|--------------|----------------------|---|
|            |                               |                  |                        |   |              |                      | K., Nikolić, V., Škrijelj, R., Kostov, V., Gregori, A., Joy, M. K., 2017. Alien freshwater fish species in the Balkans - vectors and pathways of introduction. Fish and Fisheries, Vol 19/1, 138-169.   |
| Freshwater | <i>Mylopharyngodon piceus</i> | Black carp       | crni amur              | Skadar lake   | Acclimatized | Aquaculture          | Piria, M., Simonović, P., Kalogianni, E., Vardakas, L., Koutsikos, N., Zanella, D., Ristovska, M., Apostolou, A., Adrović, A., Mrdak, D., Tarkan, A. S., Milošević, D., Zanella, L. N., Bakiu, R., Ekmekçi, F. G., Povž, M., Korro, K., Nikolić, V., Škrijelj, R., Kostov, V., Gregori, A., Joy, M. K., 2017. Alien freshwater fish species in the Balkans - vectors and pathways of introduction. Fish and Fisheries, Vol 19/1, 138-169. |
| Freshwater | <i>Oncorhynchus mykiss</i>    | rainbow trout    | kalifornijska pastrmka | Montenegro  | Acclimatized | Angling or bait fish | Piria, M., Simonović, P., Kalogianni, E., Vardakas, L., Koutsikos, N., Zanella, D., Ristovska, M., Apostolou, A., Adrović, A., Mrdak, D., Tarkan, A. S., Milošević, D., Zanella, L. N., Bakiu, R., Ekmekçi, F. G., Povž, M., Korro, K., Nikolić, V., Škrijelj, R., Kostov, V., Gregori, A., Joy, M. K., 2017. Alien freshwater fish species in the Balkans - vectors and pathways of introduction. Fish and Fisheries, Vol 19/1, 138-169. |
| Freshwater | <i>Perca fluviatilis</i>      | Eurasian perch   | Grgeč                  | Skadar lake, Sasko lake, Moraca, Cijevna, Zeta and Bojana river | Naturalized  | Unknown              | Piria, M., Simonović, P., Kalogianni, E., Vardakas, L., Koutsikos, N., Zanella, D., Ristovska, M., Apostolou, A., Adrović, A., Mrdak, D., Tarkan, A. S., Milošević, D., Zanella, L. N., Bakiu, R., Ekmekçi, F. G., Povž, M., Korro, K., Nikolić, V., Škrijelj, R., Kostov, V., Gregori, A., Joy, M. K., 2017. Alien freshwater fish species in the Balkans - vectors and pathways of introduction. Fish and Fisheries, Vol 19/1, 138-169. |
| Freshwater | <i>Piaractus brachypomus</i>  | pirapatinga      |                        | Skadar lake   | Unknown      | Ornamental           | Piria, M., Simonović, P., Kalogianni, E., Vardakas, L., Koutsikos, N., Zanella, D., Ristovska, M., Apostolou, A., Adrović, A., Mrdak, D., Tarkan, A. S., Milošević, D., Zanella, L. N., Bakiu, R., Ekmekçi, F. G., Povž, M., Korro, K., Nikolić, V., Škrijelj, R., Kostov, V., Gregori, A., Joy, M. K., 2017. Alien freshwater fish species in the Balkans - vectors and pathways of introduction. Fish and Fisheries, Vol 19/1, 138-169. |
| Freshwater | <i>Pseudorasbora parva</i>    | topmouth gudgeon | amurski čebačok        | Skadar lake, Sasko lake, Bojana river                           | Naturalized  | Unintentional        | Piria, M., Simonović, P., Kalogianni, E., Vardakas, L., Koutsikos, N., Zanella, D., Ristovska, M., Apostolou, A.,   |

|            |                              |             |                     |  |                                       |                      |   |
|------------|------------------------------|-------------|---------------------|--|---------------------------------------|----------------------|---|
|            |                              |             |                     |  |                                       |                      | Adrović, A., Mrdak, D., Tarkan, A. S., Milošević, D., Zanella, L. N., Bakiu, R., Ekmekçi, F. G., Povž, M., Korro, K., Nikolić, V., Škrijelj, R., Kostov, V., Gregori, A., Joy, M. K., 2017. Alien freshwater fish species in the Balkans - vectors and pathways of introduction. Fish and Fisheries, Vol 19/1, 138-169.   |
| Freshwater | <i>Salvelinus alpinus</i>    | Arctic char | jezerska zlatovčica | mountain lakes except Plavsko lake. Slano, Krupac and Liverovići | Naturalized                           | Aquaculture          | Piria, M., Simonović, P., Kalogianni, E., Vardakas, L., Koutsikos, N., Zanella, D., Ristovska, M., Apostolou, A., Adrović, A., Mrdak, D., Tarkan, A. S., Milošević, D., Zanella, L. N., Bakiu, R., Ekmekçi, F. G., Povž, M., Korro, K., Nikolić, V., Škrijelj, R., Kostov, V., Gregori, A., Joy, M. K., 2017. Alien freshwater fish species in the Balkans - vectors and pathways of introduction. Fish and Fisheries, Vol 19/1, 138-169. |
| Freshwater | <i>Salvelinus fontinalis</i> | brook trout | potočna zlatovčica  | Skadar lake  | acclimatized only in restricted areas | Unintentional        | Piria, M., Simonović, P., Kalogianni, E., Vardakas, L., Koutsikos, N., Zanella, D., Ristovska, M., Apostolou, A., Adrović, A., Mrdak, D., Tarkan, A. S., Milošević, D., Zanella, L. N., Bakiu, R., Ekmekçi, F. G., Povž, M., Korro, K., Nikolić, V., Škrijelj, R., Kostov, V., Gregori, A., Joy, M. K., 2017. Alien freshwater fish species in the Balkans - vectors and pathways of introduction. Fish and Fisheries, Vol 19/1, 138-169. |
| Freshwater | <i>Thymallus thymallus</i>   | grayling    | Lipljen             | Montenegro   | Naturalized                           | Angling or bait fish | Piria, M., Simonović, P., Kalogianni, E., Vardakas, L., Koutsikos, N., Zanella, D., Ristovska, M., Apostolou, A., Adrović, A., Mrdak, D., Tarkan, A. S., Milošević, D., Zanella, L. N., Bakiu, R., Ekmekçi, F. G., Povž, M., Korro, K., Nikolić, V., Škrijelj, R., Kostov, V., Gregori, A., Joy, M. K., 2017. Alien freshwater fish species in the Balkans - vectors and pathways of introduction. Fish and Fisheries, Vol 19/1, 138-169. |
| Freshwater | <i>Tinca tinca</i>           | tench       | Linjak              | River Matica   | Unknown                               | Unknown              | Piria, M., Simonović, P., Kalogianni, E., Vardakas, L., Koutsikos, N., Zanella, D., Ristovska, M., Apostolou, A., Adrović, A., Mrdak, D., Tarkan, A. S., Milošević, D., Zanella, L. N., Bakiu, R., Ekmekçi, F. G., Povž, M., Korro, K., Nikolić, V., Škrijelj, R., Kostov, V., Gregori, A., Joy, M. K., 2017. Alien freshwater fish species in the Balkans - vectors and pathways of introduction. Fish and Fisheries, Vol 19/1, 138-169. |

|            |                               |                       |         |              |         |         |  |
|------------|-------------------------------|-----------------------|---------|--------------|---------|---------|--|
| Freshwater | <i>Perccotus glenii</i>       | amur sleeper          |         |              | horizon |         | Cabi 2021  |
| Freshwater | <i>Poecilia reticulata</i>    | guppy                 |         |              | horizon |         | Cabi 2021  |
| Freshwater | <i>Sander lucioperka</i>      | pike perch            | smud    | Skadar lake  | Unknown | Unknown | Marić, D., 2019. Fauna slatkovodnih riba (Osteichthyes) Crne Gore [Fauna of Freshwater fish (Osteichthyes) of Montenegro]. Crnogorska Akademija Nauka i Umjetnosti, [Montenegrin Academy of Sciences and Arts] Podgorica, Tom 149, pp 419. |
| Freshwater | <i>Gambusia affinis</i>       | Western mosquito fish |         |              | horizon |         | Cabi 2021  |
| Freshwater | <i>Gymnocephalus cernuus</i>  | ruffe                 | balavac | Bilečko lake | Unknown | Unknown | Marić, D., 2019. Fauna slatkovodnih riba (Osteichthyes) Crne Gore [Fauna of Freshwater fish (Osteichthyes) of Montenegro]. Crnogorska Akademija Nauka i Umjetnosti, [Montenegrin Academy of Sciences and Arts] Podgorica, Tom 149, pp 419. |
| Freshwater | <i>Leucaspius delineatus</i>  | sunbleak              |         |              | horizon |         | Cabi 2021  |
| Freshwater | <i>Leuciscus idus</i>         | ide                   |         |              | horizon |         | Cabi 2021  |
| Freshwater | <i>Neogobius fluviatilis</i>  | monkey goby           |         |              | horizon |         | Cabi 2021  |
| Freshwater | <i>Neogobius melanostomus</i> | round goby            |         |              | horizon |         | Cabi 2021  |
| Freshwater | <i>Oreochromis niloticus</i>  | Nile tilapia          |         |              | horizon |         | Cabi 2021  |
| Freshwater | <i>Ameiurus melas</i>         | blackbullhead         |         |              | horizon |         | Cabi 2021  |
| Marine     | <i>Apletodon incognitus</i>   |                       |         |              | Horizon |         | Dulčić J., Dragičević B., 2011: NoveribeJadranskog i Sredozemskog mora, Institutuzaoceanografiju i ribarstvo, Split i Državnizavod za zaštituprirode, Zagreb., 2011.   |
| Marine     | <i>Alectis alexandrines</i>   |                       |         |              | Horizon |         | Dulčić J., Dragičević B., 2011: NoveribeJadranskog i Sredozemskog mora, Institutuzaoceanografiju i ribarstvo, Split i Državnizavod za zaštituprirode, Zagreb., 2011.   |
| Marine     | <i>Bathypterois dubius</i>    |                       |         |              | Horizon |         | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011.   |
| Marine     | <i>Cataetyx alleni</i>        |                       |         |              | Horizon |         | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011.   |

|        |                                   |  |  |  |         |  |
|--------|-----------------------------------|--|--|--|---------|--|
| Marine | <i>Cyclopterus lumpus</i>         |  |  |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |
| Marine | <i>Coelorinchus mediterraneus</i> |  |  |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |
| Marine | <i>Diaphus metopoclampus</i>      |  |  |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |
| Marine | <i>Dicologlossa hexophthalma</i>  |  |  |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |
| Marine | <i>Didogobius splechnai</i>       |  |  |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |
| Marine | <i>Elates ransonnetti</i>         |  |  |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |
| Marine | <i>Enchelycore anatine</i>        |  |  |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |
| Marine | <i>Epinephelus aeneus</i>         |  |  |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |
| Marine | <i>Epinepheluscoioides</i>        |  |  |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |
| Marine | <i>Equulites klunzingeri</i>      |  |  |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |
| Marine | <i>Facciolella oxyrhyncha</i>     |  |  |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |

|        |                                  |  |  |  |         |  |
|--------|----------------------------------|--|--|--|---------|--|
| Marine | <i>Gammogobius steinitzi</i>     |  |  |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |
| Marine | <i>Gobius ater</i>               |  |  |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |
| Marine | <i>Gobius couchi</i>             |  |  |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |
| Marine | <i>Hemiramphus far</i>           |  |  |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |
| Marine | <i>Hyporhamphus saffinis</i>     |  |  |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |
| Marine | <i>Lagocephalus lagocephalus</i> |  |  |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |
| Marine | <i>Lebetus guilleti</i>          |  |  |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |
| Marine | <i>Lepidion lepidion</i>         |  |  |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |
| Marine | <i>Lobotes surinamensis</i>      |  |  |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |
| Marine | <i>Melanostigma atlanticum</i>   |  |  |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |
| Marine | <i>Mycteroperca rubra</i>        |  |  |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |

|             |                                      |           |                    |  |         |  |
|-------------|--------------------------------------|-----------|--------------------|--|---------|--|
| Marine      | <i>Pagrus major</i>                  |           |                    |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |
| Marine      | <i>Pampus argenteus</i>              |           |                    |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |
| Marine      | <i>Parexocoetus mento</i>            |           |                    |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |
| Marine      | <i>Plectorhinchus mediterraneus</i>  |           |                    |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |
| Marine      | <i>Polyacanthonus rissoanus</i>      |           |                    |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |
| Marine      | <i>Pomatoschistus norvegicus</i>     |           |                    |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |
| Marine      | <i>Salaria basilisca</i>             |           |                    |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |
| Marine      | <i>Terapon theraps</i>               |           |                    |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |
| Marine      | <i>Valenciennellus tripunculatus</i> |           |                    |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |
| Marine      | <i>Vanneaugobius dollfusi</i>        |           |                    |  | Horizon | Dulčić J., Dragičević B., 2011: Nove ribe Jadranskog i Sredozemskog mora, Institut uza oceanografiju i ribarstvo, Split i Državni zavod za zaštitu prirode, Zagreb., 2011. |
| <b>AVES</b> |                                      |           |                    |  |         |  |
|             | <i>Cygnus olor</i>                   | Mute swan | Labud crvenokljuni |  | unknown | Cabi 2021  |

\*for freshwater: Acclimatized, naturalized, unknown or horizon; for marine: extant, or horizon- including casual