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SUPPLEMENTARY INFORMATION

REFERENCES

Aarestrup, K. & N. Jepsen, 1998. Spawning migration of sea trout (*Salmo trutta* L.) in a Danish river. *Journal of Fish Biology*, 55: 767–83.

Acolas, M. L., J. M. Roussel. & J. L. Bagliniere. 2008. Linking migratory patterns and diet to reproductive traits in female brown trout (*Salmo trutta* L.) by means of stable isotope analysis on ova. *Ecology of Freshwater Fish*, 17 (3): 382-393.

Alexandrino, P. J. 1996. *Estudo de populações de sável (Alosa alosa L.) e savelha (Alosa fallax Lacépède). Análise da diferenciação interespecífica, subestruturação e hibridação*. Ph.D. Thesis. University of Porto, Portugal.

Almaça, C. & B. Elvira. 2000. Past and present distribution of *Acipenser sturio* L., 1758 on the Iberian Peninsula. *Boletín Instituto Español de Oceanografía*, 16: 11-16.

Almeida, P. R., B. R. Quintella, N. M. Dias & N. Andrade. 2002a. The Anadromous sea lamprey in Portugal: Biology and Conservation perspectives. Proceedings of the International Congress on the Biology of Fishes. July 22-25, 2002. American Fisheries Society, Vancouver, Canada: 49-58.

Almeida P. R., H. T. Silva & B. R. Quintella. 2002b. The spawning migration of the sea lamprey (*Petromyzon marinus* L.), in the River Mondego (Portugal). In: *Aquatic ecology of the*

Mondego river basin. Global importance of local experience. Pardal M.A., J.C. Marques & M.A. Graça (eds.): 381-386. Imprensa da Universidade de Coimbra. Coimbra, Portugal.

Almeida, P.R., G. Tomaz, N.O. Andrade & B.R. Quintella. 2008. Morphological analysis of geographic variation of sea lamprey ammocoetes in Portuguese river basins. *Hydrobiologia*, 602: 47-59.

Álvarez, J.J., A. Antón, I. Azpíroz, P. Caballero, F. Hervella, J. De la Hoz, M. Lamuela, I. Mendiola, J. Monge, A. Serdio & I. Urrizalki. 2010. *Atlas de los Ríos Salmoneros de la Península Ibérica.* Ekolur SLL.

Alvarez-Riera, J. 1985. Datos preliminares sobre la biología del reo (*Salmo trutta* L.) en el río Sella (Asturias). Proceedings of the First International Symposium on the Study, Conservation and Rational Use of Salmonid Fisheries. July 7-12, 1985. AEMS, Asociación Española de Mosca Y Salmónidos. Navarra, Spain.

Andonegi, E., A. Aranburu, M. Santurtún, A. Maceira & E. Díaz. 2011. *Report on the eel stock and fishery in Spain 2010/2011.* Report of the EIFAC/ICES Working Group on eels, 673-715.

Andrade, N.O., B.R. Quintella, J. Ferreira, S. Pinela, I. Póvoa, S. Pedro & P.R. Almeida. 2007. Sea lamprey (*Petromyzon marinus* L.) spawning migration in the Vouga river basin (Portugal): poaching impact, preferential resting sites and spawning grounds. *Hydrobiologia*, 582: 121–132.

Antunes, A., R. Faria, S. Weiss & P. Alexandrino. 2001. Complex evolutionary history in the brown trout: insights on the recognition of conservation units. *Conservation Genetics*, 2: 337-347.

Antunes C. & M. Weber. 1990. A pesca profissional no estuário do rio Minho. Resultados da pesca experimental. Proceedings of the 1º Simpósio Sobre a Protecção e Valorização da Faixa Costeira do Minho ao Lis. Porto, Portugal: 16-31.

Antunes, C. & M. Weber. 1996. The glass eel fishery and the by-catch in the Rio Minho after one decade (1981-1982 and 1991-1992). *Archives of Polish Fisheries*, 2a: 131-139.

Antunes, C., M.J. Araújo, C. Braga, A. Roleira & M. Mota. 2012. Plano de Gestão da Enguia Europeia, *Anguilla anguilla* (L.), no Troço Internacional do rio Minho. In: *Valorização dos recursos naturais da bacia hidrográfica do rio Minho*. Antunes, C (Coor): Vol II. Relatório Final do Projeto Natura Miño-Minho, CIIMAR – Universidade do Porto. Porto, Portugal.

Antunes, P. & O. Gil. 2002. Accumulation of PCBs in three fish species from Ria de Aveiro, Portugal. *Organohalogen Compounds*, 58: 33-36.

Aprahamian, M. W., C.D. Aprahamian, J. L. Bagliniere, R. Sabatié & P. Alexandrino. 2003. *Alosa alosa* and *Alosa fallax* spp.: Literature review and bibliography. R&D Technical Report W1-014/TR, Environment Agency. Bristol, UK.

Araújo, M. J., D. Novais & C. Antunes. 2013c. Record of newly metamorphosed anadromous sea lamprey (*Petromyzon marinus* Linnaeus, 1758) feeding on a freshwater fish. *Journal of Applied Ichthyology*, 29 (6): 1380–1381.

Araújo, M. J., R. O. A. Ozório, R. J. B. Bessa, A. Kijjoo, J. F. M. Gonçalves & C. Antunes. 2013a. Nutritional status of adult sea lamprey (*Petromyzon marinus*, Linnaeus, 1758) during spawning migration in the Minho River, NW Iberian Peninsula. *Journal of Applied Ichthyology*, 29 (4): 808-814.

Araújo, M. J., P. Reis, A. C. Braga & C. Antunes. 2013b. Metal levels and accumulation patterns of sea lamprey ammocoetes (*Petromyzon marinus* Linnaeus, 1758) from a tidal freshwater habitat. *Annales de Limnologie - International Journal of Limnology*, 49 (2): 107-112.

Assis, C. A. 1990. Threats to the survival of anadromous fishes in the River Tagus, Portugal. *Journal of Fish Biology*, 37: 225–226..

Assis, C. A., P. R. Almeida, F. Moreira, J.L. Costa & M.J. Costa. 1992. Diet of the twaite shad *Alosa fallax* (Lacépède) (Clupeidae) in the River Tagus estuary, Portugal. *Journal of Fish Biology*, 41: 1049–1050.

Baglinière, J. L. 2000. Le genre *Alosa* sp. In: *Les aloses (Alosa alosa et Alosa fallax spp.)*. *Écobiologie et variabilité des populations*. Baglinière, J.L. & P. Elie (eds): 3-30. Inra-Cemagref, Paris, France.

Baglinière, J. L. & G. Maisse. 2002. La biologie de la truite commune (*Salmo trutta* L.) dans la rivière Scorff, Bretagne: une synthèse des études de 1972 à 1997. *INRA Productions Animales*, 15: 319-331.

Baglinière, J. L., M. R. Sabatié, E. Rochard, P. Alexandrino & M.W. Aprahamian. 2003. The Allis Shad *Alosa alosa*: Biology, Ecology, Range, and Status of Populations. *American Fisheries Society Symposium*, 35: 85-102.

Baldaque da Silva, A. A., 1892. *Estado actual das pescas em Portugal*. Ministério da Marinha e Ultramar, Imprensa Nacional. Lisboa, Portugal.

- Beaulaton, L., C. Taverny & G. Castelnaud. 2008. Fishing, abundance and life history traits of the anadromous sea lamprey (*Petromyzon marinus*) in Europe. *Fisheries Research*, 92: 90–101.
- Beeck, P., H. Klinger, P. Jatteau & M. Chanseau. 2008. Re-introduction of allis shad to the River Rhine System: Netherlands, Germany & France. In: *Global Re-introduction Perspectives: re-introduction case studies from around the globe*. Soorae P. S. (ed.): VIII, 19-21. IUCN/SSC Re-introduction Specialist Group, Abu Dhabi, UAE.
- Béguer, M., L. Beaulaton & E. Rochard. 2007. Distribution and richness of diadromous fish assemblages in Western Europe: large-scale explanatory factors. *Ecology of Freshwater Fish*, 16: 221–237.
- Beja, P. R. 1996. Seasonal breeding and food resources of otters, *Lutra lutra* (Carnivora, Mustelidae), in south-west Portugal: a comparison between coastal and inland habitats. *Mammalia*, 60 (1): 27-34.
- Belpaire, C. & G. Goemans. 2007. Eels: contaminant cocktails pinpointing environmental contamination. *ICES Journal of Marine Science*, 64: 1423–1436.
- Bernat, Y., J. Lobón-Cervia & P. A. Rincón. 1987. Aspectos autoecológicos de la población de anguilas (*Anguilla anguilla* L.) del río Muñas (Cuenca del Esva, Asturias). Proceedings of the IV Spanish Congress of Limnology. May 5-8. Sevilla, Spain..
- Bernat, Y., J. Lobón-Cervia & P.A. Rincón. 1988. Números y densidades de anguilas (*Anguilla anguilla* L.) en un río cantábrico. *Revista de Biología de la Universidad de Oviedo*, 6: 95-108.
- Blanco, J. C. & J. L. González. 1992. *Libro Rojo de los Vertebrados de España* (Red Book of the Vertebrates of Spain). Ministerio de Agricultura Pesca y Alimentación, Madrid, Spain.

Bordajandi, L. R., G. Gómez, M. A. Fernández, E. Abad, J. Rivera & M. J. González. 2003. Study on PCBs, PCDD/Fs, organochlorine pesticides, heavy metals and arsenic content in freshwater fish species from the River Turia (Spain). *Chemosphere*, 53 (2): 163-171.

Boisneau, C., F. Moatar, M. Bodin & P. Boisneau. 2008. Does global warming impact on migration patterns and recruitment of Allis shad (*Alosa alosa* L.) young of the year in the Loire River, France?. *Hydrobiologia*, 602: 179-186.

Braum, E. & Tesch F.W., 1990. Editorial Note. *Internationale Revue der Gesamten Hydrobiologie*, 75: 697- 700.

Butler, J. R. A. & A. F. Walker. 2006. Characteristics of the Sea Trout *Salmo trutta* (L.) Stock Collapse in the River Ewe (Wester Ross, Scotland), in 1988–2001. In: *Sea Trout: Biology, Conservation and Management*. Harris, G.S. & N.J. Milner (Eds): 45-59. Proceedings of the First International Sea Trout Symposium, Cardiff, Wales. Blackwell Publishing, Oxford, UK.

Caballero, P. 2002a. Programas de recuperación del salmón Atlántico (*Salmo salar* L.) en los ríos Ulla, Lérez y Miño, Consellería de Medio Ambiente. II Jornadas del Salmón Atlántico en la Península Ibérica, Xunta de Galicia, Spain: 83-116.

Caballero, P. 2002b. Ciclo vital del reo (*Salmo trutta* Linnaeus, 1758) en la Cuenca del río Ulla. Dissertation, University of Santiago de Compostela, Spain.

Caballero, P., M. García Rego & C. García de Leániz. 2002. Estrategias migratorias y reproductivas del salmon atlántico e la trucha común en la cuenca del río Ulla (Galicia): Implicaciones para la conservación de las poblaciones. In: *El Salmón Joya de nuestros ríos*.

García de Leániz, C., A. Serdio & S. Consuegra (Eds): 155-171. Consejería de Ganadería, Agricultura y Pesca, Santander, Spain.

Caballero P., F. Cobo & M. A. Gonzalez. 2006. Life History of a Sea Trout (*Salmo trutta* L.) Population from the North-West Iberian Peninsula (River Ulla, Galicia, Spain). In: *Sea Trout: Biology, Conservation and Management*. Harris, G.S. & N.J. Milner (Eds): 234-247. Proceedings of the 1st International Sea Trout Symposium, Cardiff, Wales. Blackwell Publishing, Oxford, UK.

Cabral, M. J. (coord.), J. Almeida, P. R. Almeida, T. Dellinger, N. Ferrand de Almeida, M. E. Oliveira, J. M. Palmeirim, A. L. Queiroz, L. Rogado & M. Santos-Reis (eds), 2006. *Red Book of the Portuguese Vertebrates*. 2nd ed. Instituto da Conservação da Natureza Assírio & Alvim, Lisboa, Portugal.

Castonguay, M., P. V. Hodson, C. Moriarty, K. F. Drinkwater & B. M. Jessop. 1994. Is there a role of ocean environment in American and European eel decline? *Fisheries Oceanography*, 3 (3): 197-203.

Cerqueira, L. 2005. *Distribuição e ecologia alimentar da Lontra (Lutra lutra) em dois sistemas costeiros em Portugal*. Dissertation, University of Minho, Portugal.

Cobo, F. 2009. Estado de conservación y pesquería de la lamprea de mar (*Petromyzon marinus*) en Galicia. Proceedings of the Foro de Acuicultura e Recursos Mariños das Rías Galegas. October 8-9, 2009. O Grove, España: 11: 43-48.

Cobo, F., S. Silva, R. Vieira-Lanero, M. J. Servia, J. Sánchez-Hernández, S. Barca, S. Rivas, P. Couto, M. Gómez, D. J. Nachón, C. Morquecho, L. Lago & M. C. Cobo. 2010. *Estado de*

conservación das poboacións de lamprea mariña en ríos de Galicia. Xunta de Galicia, Consellería do Medio Rural. Dirección Xeral de Conservación da Natureza, Dire, Spain.

Collares-Pereira, M. J., I. G. Cowx, F. Ribeiro, J. A. Rodrigues & L. Rogado. 2000. Threats imposed by water resource development schemes on the conservation of endangered fish species in the Guadiana River basin in Portugal. *Fisheries Management and Ecology* 7: 167-178.

Cooke, S. J., C. Paukert & Z. Hogan. 2012. Endangered river fish: factors hindering conservation and restoration. *Endangered Species Research*, 17: 179–191.

Costa, M. J., P. R. Almeida, I.M. Domingos, J. L. Costa, M. J. Correia, M. L. Chaves & C. M. Teixeira. 2001. Present status of shads' populations in Portugal. First Conference of European Shads, Bordeaux, France. *Bulletin Francais De La Peche Et De La Pisciculture.*, 362-363.

Costa, J. L., I. Domingos, A. J. Almeida, E. Feunteun & M. J. Costa. 2008. Interaction between *Halobatrachus didactylus* and *Anguilla anguilla*: what happens when these species occur in sympatry? *Cybium*, 32 (2): 111-117.

Dellefors, C. & U. Faremo. 1988. Early sexual maturation in males of wild sea trout, *Salmo trutta* L., inhibits smoltification. *Journal of Fish Biology*, 33 (5): 741–749.

Dias, E. 2007. *Estudo da dieta do Corvo-marinho-de-faces-brancas (Phalacrocorax carbo Linnaeus, 1758) no Estuário do Rio Minho (NO-Portugal)*. Master Thesis. University of Porto, Portugal.

Dias, E., P. Morais, M. Leopold, J. Campos & C. Antunes. 2012. Natural born indicators: Great cormorant *Phalacrocorax carbo* (Aves: Phalacrocoracidae) as monitors of river discharge influence on estuarine ichthyofauna. *Journal of Sea Research*, 73: 101-108.

Díaz, E. & J. Castellanos. 2007. *Report on the eel stock and fishery in Spain 2007*. Report of the EIFAC/ICES Working Group on eels, 442-466.

Doadrio, I., B. Elvira & Y. Bernat (eds.) 1991. *Peces continentales españoles. Inventario y clasificación de zonas fluviales*. ICONA, Colección Técnica, Madrid, Spain.

Doadrio, I. (Ed). 2002. *Atlas y Libro Rojo de los Peces Continentales de España*. Dirección General de Conservación de la Naturaleza/Museo Nacional de Ciencias Naturales-CSIC, Madrid, Spain.

Doadrio, I., S. Perea, P. Garzón-Heydt & J. L. González. 2011. *Ictiofauna continental española. Bases para su seguimiento*. DG Medio Natural y Política Forestal, MARM. Madrid, Spain.

Domingos, I. & C. Antunes. 2011. *Report on the eel stock and fishery in Portugal 2010/2011*. Report of the EIFAC/ICES Working Group on eels, 643-672.

Domingos, I., J. L. Costa & M. J. Costa. 2006. Factors determining length distribution and abundance of the European eel, *Anguilla anguilla*, in the River Mondego (Portugal). *Freshwater Biology*, 51 (12): 2265–2281.

Eel Management Plan, 2010. Resposta do Estado Português ao Regulamento (CE) nº 1100/2007, de 18 de Setembro. Direcção Geral das Pescas e Aquicultura. Ministério da Agricultura, do Desenvolvimento Rural e das Pescas, Portugal.

Elliott, J. M. 1989. Wild brown trout *Salmo trutta*: an important national and international resource. *Freshwater Biology*, 21: 1–5.

Elliott, J. M. & J. A. Elliott. 2006. A 35-year study of stock–recruitment relationships in a small population of sea trout: assumptions, implications and limitations for predicting targets. In: *Sea Trout: Biology, Conservation and Management*. Harris, G. & N.J. Milner (Eds): 257–78, Proceedings of the 1st International Sea Trout Symposium, Cardiff, Wales. Blackwell Publishing, Oxford, UK.

Elvira, B., 1995. Conservation status of endemic freshwater fish in Spain. *Biological Conservation*, 72: 129–136.

Elvira, B. 2004. La ictiofauna del Guadiana: un patrimonio amenazado. In: *Una nueva cultura del agua para el Guadiana. Desde Ruidera a Ayamonte*. Martínez-Gil, F.J. (ed.): 409–418. Fundación Nueva Cultura del Agua, Zaragoza, Spain.

Establier, R. 1975. Contenido en mercurio de las anguilas (*Anguilla anguilla*) de la desembocadura del río Guadalquivir y esteros de las salinas de la zona de Cádiz. *Investigación Pesquera*, 39 (1): 249–255.

Esteve, C. & E. Alcaide. 2009. Influence of diseases on the wild eel stock: The case of Albufera Lake. *Aquaculture*, 289: 143–149.

Euzenat, G., F. Fournel & A. Richard 1999. Sea trout (*Salmo trutta* L.) in Normandy and Picardy. In: *Biology and Ecology of the Brown and Sea trout*. Bagliniere, J.L. & G. Maisse (Eds): 175–203. Springer–Praxis, Chichester, UK.

Euzenat, G., F. Fournel & J. L. Fagard. 2006. Population Dynamics and Stock–Recruitment Relationship of Sea Trout in the River Bresle, Upper Normandy, France. In: *Sea Trout: Biology, Conservation and Management*. Harris G.S. & N.J. Milner (Eds): 307-323. Proceedings of the 1st International Sea Trout Symposium, Cardiff, Wales. Blackwell Publishing, Oxford, UK.

Faria, R., 2007. *Estudo de Processos Evolutivos e Filogeografia em Espécies Europeias do Género Alosa*. Ph.D. Thesis. Faculty of Sciences, University of Porto, Portugal.

Ferrando, M. D., M. Gamon & E. Andreu. 1992. Accumulation and distribution of pesticides in *Anguilla anguilla* from Albufera Lake (Spain). *Journal of Environmental Biology*, 13 (1): 75-82.

Ferreira, M. T. & J. M., Oliveira. 1996. Gestão da lampreia marinha *Petromyzon marinus* no rio Tejo. *Anais do Instituto Superior de Agronomia*, 45: 401-439.

Fraser, D. J. 2008. How well can captive breeding programs conserve biodiversity? A review of salmonids. *Evolutionary Applications*, 1(4): 535–586.

Gargan P. G., W. R. Poole & G. P. Forde. 2006. A Review of the Status of Irish Sea Trout Stocks. In: *Sea Trout: Biology, Conservation and Management*. Harris G.S. & N.J. Milner (Eds): 25–44. Proceedings of the 1st International Sea Trout Symposium, Cardiff, Wales. Blackwell Publishing, Oxford, UK.

Groot, S. J., 2002. A review of the past and present status of anadromous fish species in the Netherlands: is restocking the Rhine feasible? *Hydrobiologia*, 478: 205–218.

Guitart, R., B. Martínez, E. Piqué, R. Mateo, M. Solar & M. Rodríguez. 2005. Organochlorine residues in fishes from two rivers in Cantabria, Spain: implications for a program of otter (*Lutra*

lutra) reintroduction. *Bulletin of Environmental Contamination and Toxicology*, 75 (1): 143-148.

Hagstrom, O. & H. Wickstrom. 1990. Immigration of young eels to the Skagerrak-Kattegat Area, 1900-1989. *Internationale Revue der gesamten Hydrobiologie und Hydrographie*, 75: 707-716.

Halliday, R. G. 1991. Marine distribution of the sea lamprey (*Petromyzon marinus*) in the northwest Atlantic. *Canadian Journal of Fisheries and Aquatic Sciences*, 48: 832-842.

Hardisty, M. W. 1986. *Petromyzon marinus* Linnaeus, 1758. In: *The Freshwater fish of Europe – Petromyzontiformes*: 94-116. Vol. I. Part 1, Aula-Verlag, Wiesbaden.

Harris, G. S. & N. J. Milner. (Eds), 2006. Sea Trout: Biology, Conservation and Management. Proceedings of the 1st International Sea Trout Symposium. Cardiff, Wales. Blackwell Publishing, Oxford, UK.

Hay, D. W. & M. Hatton-Ellis. 2006. Stocking Sea Trout (*Salmo trutta* L.) in the River Shieldaig, Scotland. In: *Sea Trout: Biology, Conservation and Management*. Harris, G.S. & N.J. Milner (Eds): 349-355. Proceedings of the 1st International Sea Trout Symposium. Cardiff, Wales. Blackwell Publishing, Oxford, UK.

Henderson P. A. 2003. Background information on species of shad and lamprey, Bangor, CCW Marine Monitoring Report 7.

Hendry, K. & D. Cragg-Hine. 2003. *Ecology of the Atlantic Salmon*. Conserving Natura 2000 Rivers Ecology Series No. 7. English Nature, Peterborough, UK.

Hervella, F. H. 2002. El salmón atlántico en los ríos gallegos. Proceedings of the II Jornadas del Salmón Atlántico en la Península Ibérica. October 19-21, 2002. Xunta de Galicia, Consellería de Medio Ambiente – Dirección Xeral de Conservación da Natureza, Santiago de Compostela, Spain: 23-45.

Hervella, F. & P. Caballero. 1999. *Inventario Piscícola dos Ríos Galegos, Centro de investigaciónes Forestales de Lourizán*. Dir. Xeral de Montes e Medio Ambiente Natural, Consellería de Medio Ambiente, Xunta de Galicia, Spain.

Hindar, K., B. Jonsson, N. Ryman & G. Stahl. 1991. Genetic relationship among landlocked, resident and anadromous brown trout, *Salmo trutta* L. *Heredity*, 66: 83–91.

ICONA. 1986. *Lista roja de los vertebrados de España*. ICONA, Ministerio de Agricultura, Pesca y Alimentación, Madrid, Spain.

IUCN, 2013. IUCN Red List of Threatened Species. Version 2013.1. <<http://www.iucnredlist.org>>. Downloaded on 02 July 2013.

Johnstone, A. D. F., A. F. Walker, G. G. Urquhart & A. E. Thorne. 1995. *The movement of sea trout smolts, Salmo trutta L., in a Scottish west coast sea loch determined by acoustic tracking*. Scottish Fisheries Research Report.

Jonsson, B. & N. Jonsson. 2009. A review of the likely effects of climate change on anadromous Atlantic salmon *Salmo salar* and brown trout *Salmo trutta*, with particular reference to water temperature and flow. *Journal of Fish Biology*, 75: 2381–2447.

Jonsson, B. & J. H. L' Ábée-Lund .1993, Latitudinal clines in life-history variables of anadromous brown trout in Europe. *Journal of Fish Biology*, 43 (Suppl. A): 1-16.

Jutila, E., A. Saura, I. Kallio-Nyberg, A. Huhmarniemi & A. Romakkaniemi. 2006. The Status and Exploitation of Sea Trout on the Finnish Coast of the Gulf of Bothnia in the Baltic Sea. In: *Sea Trout: Biology, Conservation and Management*. Harris, G.S. & N.J. Milner (Eds): 128-138. Proceedings of the 1st International Sea Trout Symposium. Cardiff, Wales. Blackwell Publishing, Oxford, UK.

Kelly, F. L. & J. J. King. 2001. A review of the ecology and distribution of three lamprey species, *Lampetra fluviatilis* (L.), *Lampetra planeri* (Bloch) and *Petromyzon marinus* (L.): a context for conservation and biodiversity considerations in Ireland, *Biology and Environment: Proceedings of the Royal Irish Academy*, 101B (3): 165-185.

Kennedy, C. R. 2007. The pathogenic helminth parasites of eels. *Journal of Fish Diseases*, 30: 319–334.

Landergren, P. 1999. Spawning of anadromous rainbow trout, *Oncorhynchus mykiss* (Walbaum): a threat to sea trout, *Salmo trutta* L., populations? *Fisheries Research*, 40: 55-63.

Langston, W. J., B. S. Chesman, G.R. Burt, N.D. Pope & J. McEnvoy. 2002. Metallothionein in liver of eels *Anguilla anguilla* from the Thames Estuary: an indicator of environmental quality? *Marine Environmental Research*, 53: 263–93.

Larinier, M. 2001. Environmental issues, dams and fish migration. In: *Dams, fish and fisheries: opportunities, challenges and conflict resolution*. Marmulla G. (Ed.): 45–89. FAO Fisheries Technical Paper. Rome, Italy.

Lassalle, G., M. Béguer, L. Beaulaton & E. Rochard. 2008. Diadromous fish conservation plans need to consider global warming issues: An approach using biogeographical models. *Biological Conservation*, 141: 1105-1118.

Lassalle, G. & E. Rochard. 2009. Impact of twenty-first century climate change on diadromous fish spread over Europe, North Africa and the Middle East. *Global Change Biology*, 15 (5): 1072–1089.

Lassalle, G., P. Crouzet, J. Gessner & E. Rochard. 2010. Global warming impacts and conservation responses for the critically endangered European Atlantic sturgeon. *Biological Conservation*, 143: 2441–2452.

Limburg, K. & J. Waldman. 2009. Dramatic declines in North Atlantic Diadromous fishes. *BioScience, AIBS*, 59: 955-965.

Linde, A. R., S. Sánchez-Galán, D. Klein, E. García-Vázquez & K. H. Summer. 1999. Metallothionein and heavy metals in brown trout (*Salmo trutta*) and European eel (*Anguilla anguilla*): a comparative study. *Ecotoxicology and Environmental Safety*, 44 (2): 168-173.

Lobón-Cervia, J. 1999. The decline of eel *Anguilla anguilla* (L.) in a river catchment of northern Spain 1986–1997. Further evidence for a critical status of eel in Iberian waters. *Archiv für Hydrobiologie*, 144: 245–253.

Lobón-Cervia, J., C. G. Utrilla & P. A. Rincón. 1995. Variation in the population dynamics of the european eel *Anguilla anguilla* (L.) along the course of a cantabrian river. *Ecology of Freshwater Fish*, 4 (1): 17-27.

Loza, A. & J. A. Pis 2010. Captura accidental de un esturión (*Acipenser* sp.) en la Bahía de San Lorenzo de Gijón, Asturias (N de España). *Boletín de Ciencias Naturales R.I.D.E.A.* 51: 385-387.

Lund, R. A. & L. P. Hansen .1992. Exploitation pattern and migration of the anadromous brown trout, *Salmo trutta* L., from the river Gjengedal, western Norway. *Fauna Norvegica. Serie A*, 13: 29–34.

Lundqvist, H., S. M. McKinnell, S. Jonsson & J. Ostergren. 2006. Is Stocking with Sea Trout Compatible with the Conservation of Wild Trout (*Salmo trutta* L.)? In: *Sea Trout: Biology, Conservation and Management*. Harris, G.S. & N.J. Milner (Eds): 356-371. Proceedings of the 1st International Sea Trout Symposium. Cardiff, Wales. Blackwell Publishing, Oxford, UK.

Lundqvist, H., P. Rivinoja, K. Leonardsson & S. McKinnell. 2008. Upstream passage problems for wild Atlantic salmon (*Salmo salar* L.) in a regulated river and its effect on the population. *Hydrobiologia*, 602: 111-127.

Lyse, A. A., S. O. Stefansson & A. Ferno. 1998. Behaviour and diet of sea trout post-smolts in a Norwegian fjord system. *Journal of Fish Biology*, 52 (5): 923–936.

Maes, J., M. Stevens & J. Breine. 2008. Poor water quality constrains the distribution and movements of twaite shad *Alosa fallax* (Lacépède, 1803) in the watershed of river Scheldt. *Hydrobiologia*, 602: 129-143.

Maitland, P. S. 2003. *Ecology of the River, Brook and Sea Lamprey*. Conserving Natura 2000 Rivers Ecology Series No. 5. English Nature, Peterborough, UK.

Mateus, C. S., R. Rodríguez-Muñoz, B. R. Quintella, M. J. Alves & P. R. Almeida. 2012. Lampreys of the Iberian Peninsula: distribution, population status and conservation. *Endangered Species Research*, 16: 183–198.

McDowall, R. M. 1999. Different kinds of diadromy: Different kinds of conservation problems. *ICES Journal of Marine Science*, 56 (4): 410–413.

Milner, N. J., L. Karlsson, E. Degerman, A. Johlander, J. C. MacLean & L.P. Hansen. 2006a. Sea Trout (*Salmo trutta* L.) in European Salmon (*Salmo salar* L.) Rivers. In: *Sea Trout: Biology, Conservation and Management*. Harris, G.S. & N.J. Milner (Eds): 139-153. Proceedings of the 1st International Sea Trout Symposium. Cardiff, Wales. Blackwell Publishing, Oxford, UK.

Milner, N. J., G. S. Harris, P. Gargan, M. Beveridge, M. G. Pawson, A. Walker & K. Whelan. 2006b. Perspectives on Sea Trout Science and Management. In: *Sea Trout: Biology, Conservation and Management*. Harris, G.S. & N.J. Milner (Eds): 480-490. Proceedings of the 1st International Sea Trout Symposium. Cardiff, Wales. Blackwell Publishing, Oxford, UK.

Moriarty, C. 1990. European catches of elver of 1928-1988. *Internationale Revue der gesamten Hydrobiologie und Hydrographie*, 75 (6): 701-706.

Moriarty, C. 1996. The decline in catches of European elver 1980-1992. *Archives of Polish Fisheries*, 20: 215-217.

Moriarty, C. & F. W. Tesch. 1996. Possible increase in catch of Atlantic elver *Anguilla anguilla* in 1993 and 1994. *Ecology of Freshwater Fish*, 5 (4): 213-215.

Mota, M. & C. Antunes. 2011. First report on the status of Allis shad (*Alosa alosa*) in the Minho River (Northwestern Iberian Peninsula). *Journal of Applied Ichthyology*, 27 (Suppl.3): 56–59.

Mota, M. & C. Antunes. 2012. A preliminary characterisation of the habitat use and feeding of Allis shad (*Alosa alosa*) juveniles in the Minho River tidal freshwater wetlands. *Limnetica*, 31 (1): 165-172.

Mota, M., A. Bio, M. Bao, S. Pascual, E. Rochard & C. Antunes (2015). New insights into biology and ecology of the Minho River Allis shad *Alosa alosa* (L.) – contribution to the conservation of one of the last European shad populations. *Reviews in Fish Biology and Fisheries*, 25: 395-412

Münderle, M., B. Sures & H. Taraschewski. 2004. Influence of *Anguillicola crassus* (Nematoda) and *Ichthyophthirius multifiliis* (Ciliophora) on swimming activity of European eel *Anguilla anguilla*. *Diseases of Aquatic Organisms*, 60 (2): 133–139.

Nachón, D. J., J. Sánchez-Hernández, R. Vieira-Lanero & F. Cobo. 2013. Feeding of twaite shad, *Alosa fallax* (Lacépède, 1803), during the upstream spawning migration in the River Ulla (NW Spain). *Marine and Freshwater Research*, 64: 233–236.

Neto, A. F., D. Passos, J. L. Costa, M. J. Costa, I. Caçador, M. E. Pereira, A. C. Duarte, M. Pacheco & I. Domingos. 2011. Accumulation of metals in *Anguilla anguilla* from the Tagus estuary and relationship to environmental contamination. *Journal of Applied Ichthyology*, 27 (5):1265-1271.

Nicola, G. G., B. Elvira & A. Almodovar. 1996. Dams and fish passage facilities in the large rivers of Spain: effects on migratory species. *Archiv fur Hydrobiologie* 10: 375–379.

Nikolic, N., J. L. Baglinière, C. Rigaud, C. Gardes, M.L. Masquillier & C. Taverny. 2011. Bibliometric analysis of diadromous fish research from 1970s to 2010 - a case study of seven species. *Scientometrics*, 88 (3): 929-947.

Okumus, I., I. Z. Kurtoglu & S. Atasaral. 2006. General Overview of Turkish Sea Trout (*Salmo trutta* L.) Populations. In: *Sea Trout: Biology, Conservation and Management*. Harris, G.S. & N.J. Milner (Eds): 115-127. Proceedings of the 1st International Sea Trout Symposium. Cardiff, Wales. Blackwell Publishing, Oxford, UK.

OSPAR. 2008. *Case Reports for the OSPAR List of threatened and/or declining species and habitats*. Biodiversity Series, 358/2008, OSPAR Commission, London, UK.

OSPAR. 2009. *Background Document for Sea lamprey (Petromyzon marinus)*. Biodiversity Series, 431/2009, OSPAR Commission, London, UK.

OSPAR. 2010. *Background Document for Atlantic Salmon Salmo salar*. Biodiversity Series, 480/2010, OSPAR Commission, London, UK.

Perea, S., P. Garzón, J. L. González, V. C. Almada, A. Pereira & I. Doadrio. 2011. New distribution data on Spanish autochthonous species of freshwater fish. *Graellsia*, 67 (1): 91-102.

Pettersson, J. C. E., M. A. Hansen & T. Bohlin. 2001. Does dispersal from landlocked trout explain the coexistence of resident and migratory trout females in a small stream? *Journal of Fish Biology*, 58 (2): 487-495.

Poole, W. R., M. Dillane, E. DeEyto, G. Rogan, P. McGinnity & K. Whelan. 2006. Characteristics of the Burrishoole Sea Trout Population: Census, Marine Survival, Enhancement and Stock-Recruitment Relationship, 1971-2003. In: *Sea Trout: Biology, Conservation and*

Management. Harris, G.S. & N.J. Milner (Eds): 279-306. Proceedings of the 1st International Sea Trout Symposium. Cardiff, Wales. Blackwell Publishing, Oxford, UK.

Pratten, D. J. & W. M. Shearer. 1983. The migrations of north Esk sea trout. *Aquaculture Research*, 14: 99–113.

Quintella, B. R. 2006. *Biology and conservation of the sea lamprey (Petromyzon marinus L.) in Portugal*. Ph.D. Thesis. University of Lisbon, Portugal.

Quintella, B. R., N. O. Andrade & P. R. Almeida. 2003. Distribution, larval stage duration and growth of the sea lamprey ammocoetes, *Petromyzon marinus* L., in a highly modified river basin. *Ecology of Freshwater Fish*, 12: 286-293.

Richard, A. 1986. *Les populations de truite de mer, Salmo trutta L., de L'Orne et de la Touques (Basse-Normandie): scalimetrie, sexage, caracteristiques biometriques, demographiques et migratoires*. Ph.D. Thesis. University of Rennes, France.

Rico, M. C., L. M. Hernández, M. J. González, M. A. Fernández & M. C. Montero. 1987. Organochlorine and metal pollution in aquatic organisms sampled in the Doñana National Park during the period 1983-1986. *Bulletin of Environmental Contamination and Toxicology*, 39 (6): 1076-1083.

Rochard, E., G. Castelnaud & M. Lepage. 1990. Sturgeons (Pisces: Acipenseridae): threats and prospects. *Journal of Fish Biology*, 37: 123–132.

Rodríguez-Muñoz, R. 1992. *Plan de conservación de la lamprea marina (Petromyzon marinus Linnaeus, 1758) en Asturias*. ECOPLAN - Consejería de Agricultura del Principado de Asturias. Oviedo, Spain.

Rodríguez-Muñoz, R., J. R. Waldman, C. Grunwald, N. K. Roy & I. Wirgin. 2004. Absence of shared mitochondrial DNA haplotypes between sea lamprey from North American and Spanish rivers. *Journal of Fish Biology*, 64: 783–787.

Rogado, L. (coord.), P. Alexandrino, P.R. Almeida, J. Alves, J. Bochechas, R. Cortes, I. Domingos, F. Filipe, J. Madeira & F. Magalhães. 2006a. *Salmo salar* Slamão do Atlântico. In: Red Book of the Portuguese Vertebrates. Cabral, M.J., J. Almeida, P.R. Almeida, T. Dellinger, N. Ferrand de Almeida, M.E. Oliveira, J.M. Palmeirim, A.I. Queiroz, L. Rogado & M. Santos-Reis (eds.): 103-104. 2ª Ed. Instituto da Conservação da Natureza/Assírio & Alvim. Lisboa, Portugal.

Rogado, L. (coord.), P. Alexandrino, P. R. Almeida, J. Alves, J. Bochechas, R. Cortes, I. Domingos, F. Filipe, J. Madeira & F. Magalhães. 2006b. *Salmo trutta* Truta-marisca. In: Red Book of the Portuguese Vertebrates. Cabral, M.J., J. Almeida, P.R. Almeida, T. Dellinger, N. Ferrand de Almeida, M.E. Oliveira, J.M. Palmeirim, A.I. Queiroz, L. Rogado & M. Santos-Reis (eds.): 105-106. 2ª Ed. Instituto da Conservação da Natureza/Assírio & Alvim. Lisboa, Portugal.

Rougier, T., P. Lambert, H. Drouineau, M. Girardin, G. Castelnaud, L. Carry, M. Aprahamian, E. Rivot & E. Rochard. 2012. Collapse of Allis shad, *Alosa alosa*, in the Gironde system (southwest France): environmental change, fishing mortality or Allee effect? *ICES Journal of Marine Science*, 69 (10): 1802-1811.

Ruiz, X. & G. A. Llorente. 1991. Seasonal variation of DDT and PCB accumulation in muscle of carp (*Cyprinus carpio*) and eels (*Anguilla anguilla*) from the Ebro Delta, Spain. *Vie et Milieu*, 41 (2-3) : 133-140.

Sánchez, J., M.C. Vaquero & I. Legorburu. 1994. Metal pollution from old lead-zinc mine works: biota and sediment from Oiartzun Valle. *Environmental Technology*, 15 (11): 1069-1076.

Sánchez, J., N. Marino, M. C. Vaquero, J. Ansorena & I. Legorburu. 1998. Metal pollution by old lead-zinc mines in Urumea river valley (Basque Country, Spain). Soil, biota and sediment. *Water, Air and Soil Pollution*, 107 (1-4): 303-319.

Saura, M., P. Caballero, A. Caballero & P. Morán 2006. Genetic variation in restored Atlantic salmon (*Salmo salar* L.) populations in the Ulla and Lérez rivers, Galicia, Spain. *ICES Journal of Marine Science*, 63 (7): 1290-296.

Saura, M., P. Caballero & P. Moran. 2008. Are there Atlantic salmon in the River Tambre? *Journal of Fish Biology*, 72 (5): 1223–1229.

Silva, S., M. J. Servia, R. Vieira-Lanero, D. J. Nachón & F. Cobo. 2013. Haematophagous feeding of newly metamorphosed European sea lampreys *Petromyzon marinus* on strictly freshwater species. *Journal of Fish Biology*, 82: 1739–1745.

Solomon, D. J. 1995. *Sea trout stocks in England and Wales*. National Rivers Authority R&D Report 25. Bristol, UK.

Taraschewski, H. 2006. Hosts and parasites as aliens. *Journal of Helminthology*, 80: 99–128.

Taverny, C. & P. Elie. 2009. *Bilan des connaissances biologiques et de l'état des habitats des lamproies migratrices dans le bassin de la Gironde – Propositions d'actions prioritaires*. Rapport final, Etude Cemagref, n°123. Groupement de Bordeaux, France.

Toledo, M. M., A. L. Lemaire, J. L. Baglinière & F. Braña. 1993. Caractéristiques biologiques de la truite de mer (*Salmo trutta* L.) au nord de l'Espagne, dans deux rivières des Asturies. *Bulletin Français de la Pêche et de la Pisciculture*, 330: 295-306.

Trigo, M. I. 1994. Predação por lontra (*Lutra lutra* Linnaeus, 1758) em pisciculturas do estuário do Mira. Master's Thesis. University of Lisbon, Portugal.

Urena, R., S. Peri, J. del Ramo & A. Torreblanca. 2007. Metal and metallothionein content in tissues from wild and farmed *Anguilla anguilla* at commercial size. *Environment International*, 33 (4): 532-539.

Usero, J., C. Izquierdo, J. Morillo & I. Gracia. 2004. Heavy metals in fish (*Solea vulgaris*, *Anguilla anguilla* and *Liza aurata*) from salt marshes on the southern Atlantic coast of Spain. *Environment International*, 29 (7) : 949-956.

Valente, A. & P. Alexandrino. 1990. A ictiofauna do rio Lima. Alguns aspectos sobre a sua exploração e conservação. Proceedings of the 1º Simpósio Sobre a Protecção e Valorização da Faixa Costeira do Minho ao Lis. Porto, Portugal: 32-47.

Valente, A., P. Alexandrino, M. Thibault & E. Prevost. 1991. La population de saumon Atlantique, *Salmo salar* L. du fleuve Lima, Portugal: quelques observations préliminaires, ICES C.M 1991, M: 15.

Valente, A. (Coord), M. Cruz, R. Silva, D. Serpa, M. Vieira & R. Branco. 2000. *Avaliação da pesca dos migradores nos estuários dos rios Cávado e Neiva*. Report CECA-ICETA/UP and APPLE-ICN. Faculdade Ciências da Universidade do Porto, Portugal.

Valiente, A. G., E. Beall & E. Garcia-Vazquez. 2010. Population genetics of south European Atlantic salmon under global change. *Global Change Biology*, 16: 36–47.

Van Dijk, G. M., E. C. L. Marteiijn, & A. Schulte-Wulver-Leidig. 1995. Ecological rehabilitation of the River Rhine: plans, progress and perspectives. *Regulated Rivers: Research & Management* 11: 377-388.

Vasemägi, A., R. Gross, T. Paaver, M. Kangur, J. Nilsson & L. O. Eriksson 2001. Identification of the origin of an Atlantic salmon (*Salmo salar* L.) population in a recently recolonized river in the Baltic Sea. *Molecular Ecology*, 10 (12): 2877–2882.

Viéitez, E. & J. M. Rey. 2005. *A natureza ameazada 2004*. Consello da Cultura Galega. Sección de Patrimonio Cultural. Spain.

Walker, A. M., M. G. Pawson & E. C. E. Potter. 2006. Sea Trout Fisheries Management: Should We Follow the Salmon? In: *Sea Trout: Biology, Conservation and Management*. Harris, G.S. & N.J. Milner (Eds): 466-479. Proceedings of the 1st International Sea Trout Symposium. Cardiff, Wales. Blackwell Publishing, Oxford, UK.