

European Alien Species Information Network (EASIN), knowledge gap observations

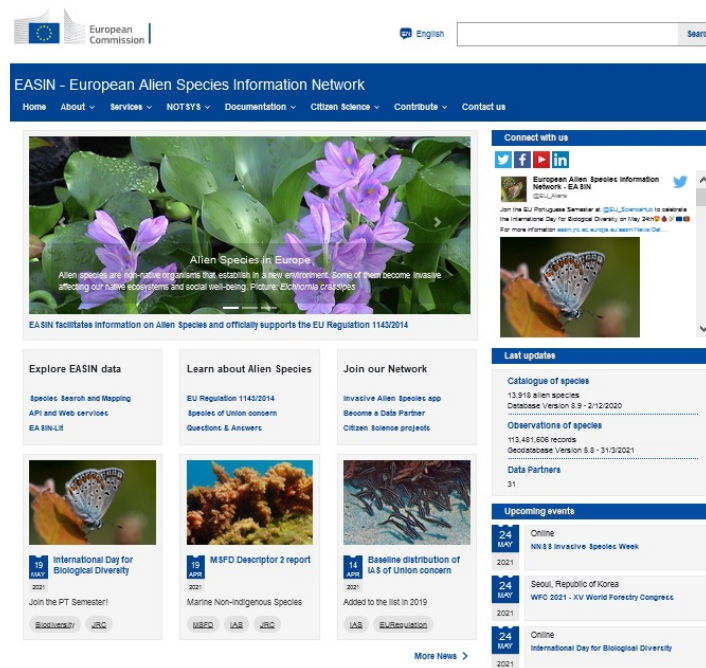


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EASIN: What is it?

Facilitates access to updated scientific information and spatial data on alien species occurring in Europe; web tools and services to support policy makers, researchers, stakeholders

Official information system supporting the implementation of the EU Reg. 1143/2014 on IAS



The screenshot shows the EASIN website homepage. At the top, there is a navigation bar with the European Commission logo and a search bar. Below this is a blue header with the title "EASIN - European Alien Species Information Network" and a menu with options like Home, About, Services, NOTSYS, Documentation, Citizen Science, Contribute, and Contact us. The main content area features a large image of purple flowers with the text "Alien Species in Europe" and a sub-headline "EASIN facilitates information on Alien Species and officially supports the EU Regulation 1143/2014". To the right, there is a "Connect with us" section with social media icons and a "Last updates" section listing recent news items such as "Catalogue of species" and "Observations of species". At the bottom, there are three event cards: "International Day for Biological Diversity 2021", "MSFD Descriptor 2 report Marine Non-Indigenous Species", and "Baseline distribution of IAS of Union concern".

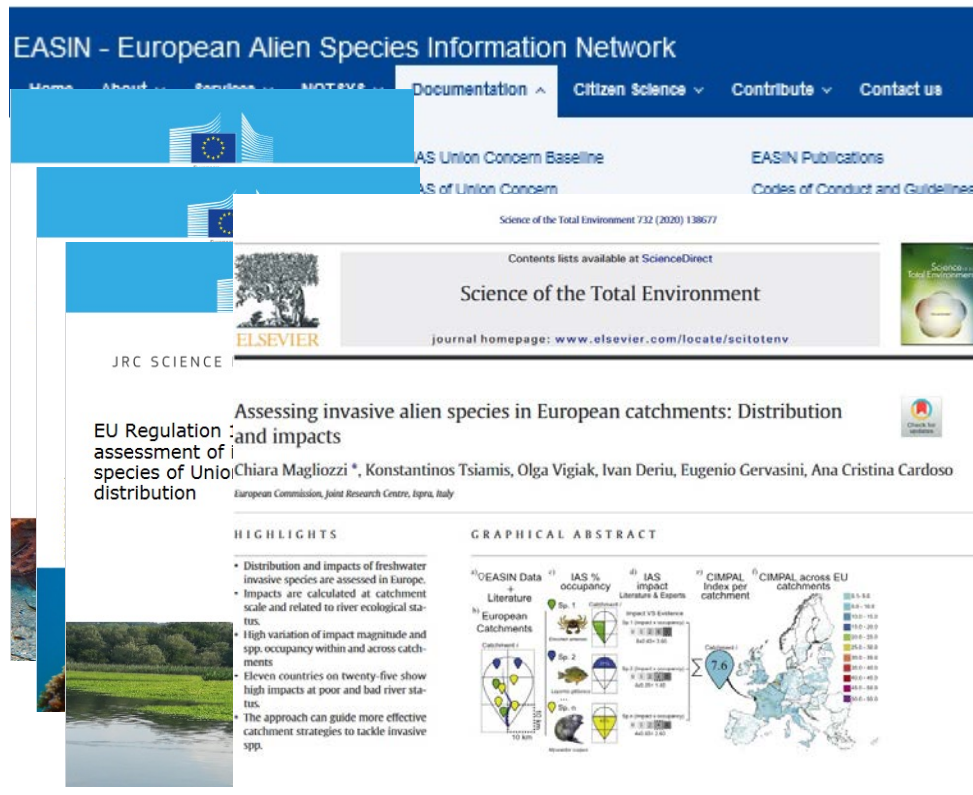
EASIN: data collaborators

- Biodiversity and Alien Species data publishers
- Research Institutions and projects
- Non-governmental organisations
- EU Member states authorities and national experts
- Citizen Science projects and initiatives

 REABIC Partner Since 14 September 2012	 GISIN Partner Since 14 September 2012	 GBIF Partner Since 14 September 2012	 ELNAIS Partner Since 15 November 2012	 EASIN-Lit Partner Since 11 March 2013	 CIESM Partner Since 11 March 2013
 EEA Partner Since 17 June 2013	 hcmr Partner Since 17 June 2013	 IUCN MedMis Partner Since 28 September 2014	 Eppo Partner Since 16 February 2016	 NBIC Partner Since 21 October 2016	 MAMIAS Partner Since 21 October 2016
 CABI Partner Since 10 July 2017	 STOPVESPA Partner Since 28 July 2017	 Eiiko Partner Since 28 July 2017	 TO Belgium Partner Since 29 March 2018	 NBN UK Partner Since 29 March 2018	 INVASORAS Partner Since 4 April 2018
 MITECO Partner Since 23 July 2018	 BASELINE Partner Since 26 August 2018	 NOTSYS Partner Since 12 November 2018	 IA SE Partner Since 12 November 2018	 IZASM Partner Since 14 May 2019	 NBDC Partner Since 14 May 2019
 OUC Partner Since 14 May 2019	 ESENIA Partner Since 14 May 2019	 iSEA Partner Since 14 May 2019	 INNH Partner Since 14 May 2019	 INVAZIVKE Partner Since 17 July 2019	 MNH Partner Since 29 December 2020

EASIN: policy and research outputs

- Alien Species (AS) and Invasive Alien Species (IAS) distribution baselines
- Policy implementation assessments
- Assessments of time and spatial trends of AS/ IAS
- Assessment of pathways and gateways of introduction, and species origins
- Assessment of IAS impact
- Prediction of future introduction and distribution



EASIN - European Alien Species Information Network

Home About Services NOTICES Documentation Citizen Science Contribute Contact us

EU Union Concern Baseline EASIN Publications

AS of Union Concern Codes of Conduct and Guidelines

Science of the Total Environment 732 (2020) 138677

Contents lists available at ScienceDirect

Science of the Total Environment

journal homepage: www.elsevier.com/locate/scitotenv

JRC SCIENCE

EU Regulation assessment of species of Union distribution

Assessing invasive alien species in European catchments: Distribution and impacts

Chiara Magliozzi *, Konstantinos Tsiamis, Olga Vigiaki, Ivan Deriu, Eugenio Gervasini, Ana Cristina Cardoso

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HIGHLIGHTS

- Distribution and impacts of freshwater invasive species are assessed in Europe.
- Impacts are calculated at catchment scale and related to river ecological status.
- High variation of impact magnitude and spp. occupancy within and across catchments
- Eleven countries on twenty-five show high impacts at poor and bad river status.
- The approach can guide more effective catchment strategies to tackle invasive spp.

GRAPHICAL ABSTRACT

¹CEASIN Data ²IAS % occupancy ³IAS Impact Literature & Experts

⁴ CIMPAL Index per catchment ⁵ CIMPAL across EU catchments

7.6

Legend for CIMPAL Index per catchment: 0.0-5.0, 5.0-10.0, 10.0-15.0, 15.0-20.0, 20.0-25.0, 25.0-30.0, 30.0-35.0, 35.0-40.0, 40.0-45.0, 45.0-50.0

Legend for CIMPAL across EU catchments: 0.0-10.0, 10.0-20.0, 20.0-30.0, 30.0-40.0, 40.0-50.0, 50.0-60.0, 60.0-70.0, 70.0-80.0, 80.0-90.0, 90.0-100.0



Gap areas, research and policy

Better and more collaboration and coordination of initiatives:

- collecting data, interlinking data and information from different sources (e.g. traditional in situ monitoring, satellite, eDNA/ genomics, CS contributions, etc).
- Foster policy coherence.
- Citizen and stakeholders involvement

- Systematic collection of data on ecological, economic and social impacts based on common protocols
- Research on interactions with other pressures at multiple spatial and temporal scales.
- Integrative approaches, e.g. ecosystem approach taking account of climate change
- Communication and education

Thank You!



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EU Science, Research and Innovation



EU Science Hub