

#### BioInvasions Records: making NIS data open access



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Obstacles for Open Access data

- 'data ownership' mentality
- lack of 'means' for making data open access
- 'cost' (money, time, effort,...)





## **BioInvasions Records**

- international journal founded in 2011 first issue in 2012
- focus: publication of new NIS records
- continuation of 'Aquatic Invasions Records'
- both aquatic and terrestrial
- contribute to biodiversity-related data sharing
- support online databases of NIS with georeferenced records
- rapid communications, data papers



European Commission EASIN European Alien Species Information Network







# Overview of published records in BIR\*

- April 2012 December 2019
- 467 published articles
- 10457 georeferenced records of 628 species (available as Supplementary file)





Europe and North America dominate in published records







## Overview of published records in BIR\*





increasing diversity of countries countries represented only once total number of countries n year number of countries once-represented countries





LifeWatch ERIC e-Science for NIS research workshop | 20-21 May 2021



### **Overview of published records in BIR\***

increasing use of molecular tools







# Overview of published records in BIR\*

#### analyses of pathways





Missions

• creating a global network of networks for development of open knowledge and open data on invasive species;

• transfer of this knowledge to all interested stakeholders



Lucy et al. 2016

#### http://www.invasivesnet.org







#### **InvasivesNet**

open access fees obstacle









#### **Collective Articles**

- opportunity for free publishing
- recognition
- citable dataset
- overcoming reluctance to publish data openly



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#### Data Paper

#### Unpublished Mediterranean records of marine alien and cryptogenic species

Stelios Katsanevakis\*, Dimitris Poursanidis, Razy Hoffman, Jamila Rizgalla, Shevy Bat-Sheva Rothman, Ya'arit Levitt-Barmats, Louis Hadjioannou, Domen Trkov, Joxe Mikel Garmendia, Miraine Rizzo, Angela G. Bartolo, Michel Bariche, Fiona Tomas, Periklis Kleitou, Patrick J. Schembri, Demetris Kletou, Francesco Tiralongo, Christine Pergent, Gérard Pergent, Ernesto Azzurro, Murat Bilecenoglu, Alice Lodola, Enric Ballesteros, Vasilis Gerovasileiou, Marc Verlague, Anna Occhipinti-Ambrogi, Eleni Kytinou, Thanos Dailianis, Jasmine Ferrario, Fabio Crocetta, Carlos Jimenez, Julian Evans, Michail Ragkousis, Lovrenc Lipej, Joseph A. Borg, Charalampos Dimitriadis, Giorgos Chatzigeorgiou, Paolo G. Albano, Stefanos Kalogirou, Hocein Bazairi, Free Espinosa, Jamila Ben Souissi, Konstantinos Tsiamis, Fabio Badalamenti, Joachim Langeneck, Pierre Noel, Alan Deidun, Agnese Marchini, Grigorios Skouradakis, Laura Royo, Maria Sini, Carlo Nike Bianchi, Yassine-Ramzi Sohaier, Raouia Ghanem, Nikos Doumpas, Jeanne Zaouali, Konstantinos Tsirintanis, Orestis Papadakis, Carla Morri, Melih Ertan Cinar, Jorge Terrados, Gianni Insacco, Bruno Zava, Emna Soufi-Kechaou, Luigi Piazzi, Khadija Ounifi Ben Amor, Emmanouil Andriotis, Maria Cristina Gambi, Mohamed Mourad Ben Amor, Joaquim Garrabou, Cristina Linares, Ana Fortič, Markos Digenis, Emma Cebrian, Maïa Fourt, Maria Zotou, Luca Castriota, Vincenzo Di Martino, Antonietta Rosso, Carlo Pipitone, Manuela Falautano, María García, Rym Zakhama-Sraieb, Faten Khamassi, Anna Maria Mannino, Mohamed Hédi Ktari, Ioanna Kosma, Mouna Rifi, Paraskevi K, Karachle, Sercan Yapıcı, Arthur R, Bos, Paolo Balistreri, Alfonso A. Ramos Esplá, Jonathan Tempesti, Omar Inglese, Ioannis Giovos, Dimitrios Damalas, Said Benhissoune, Mehmet Fatih Huseyinoglu, Wafa Rjiba-Bahri, Jorge Santamaría, Martina Orlando-Bonaca, Andres Izguierdo, Caterina Stamouli, Monica Montefalcone, Hasan Cerim, Raül Golo, Soultana Tsioli, Sotiris Orfanidis, Nikolas Michailidis, Martina Gaglioti, Ergün Taskın, Emilio Mancuso, Ante Žunec, Ivan Cvitković, Halit Filiz, Rossana Sanfilippo, Apostolos Siapatis, Borut Mavrič, Sami Karaa, Ali Türker, Françoise Monniot, Jana Verdura, Najib El Ouamari, Mohamed Selfati, Argyro Zenetos





#### **Collective Articles**

- 126 contributors (including citizen science initiatives)
- 16 countries







- BIR (2012-2019): 467 published articles  $\rightarrow$  10,457 georeferenced records
- 1 collective article  $\rightarrow$  5,376 georeferenced records

#### CONCLUSIONS

- wealth of information buried in personal files
- costs (time, effort, money) can restrict open data
- opportunities & coordinated efforts → substantially improve availability of open access data
- engagement of experts and citizens



# Thank you

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