

THE NEW REAL-TIME VERSION OF THE EUROBIIRDPORTAL VIEWER

Gabriel Gargallo, David Martí, Juan Arizaga, Stephen Baillie, Lluís Brotons, Brian Caffrey, Tomasz Chodkiewicz, Gaëtan Delaloye, Cristi Domsa, Frode Falkenberg, Ruud Foppen, Carlos Godinho, Marc Herremans, Philippe Jourde, Andres Kalamees, Nagy Károly, Ivan Katanović, Istvan Kovacs, Roberto Lardelli, Itri Levent Erkol, Patric Lorgé, Sam Marston, Blas Molina, Johan Nilsson, Anders Olsen, Jean-Yves Paquet, Yoav Perlman, Clara Pladevall, Georgi Popgeorgiev, Danae Portolou, Ilze Priedniece, Jozef Ridzoň, Hans Schmid, Norbert Teufelbauer, Gerard Troost, Peter Uppstu, Dylan Verheul, Zdeněk Vermouzek, Dani Villero, Johannes Wahl, Chris Wood

GG: Catalan Ornithological Institute, Spain (anella@ornitologia.org); DM: Catalan Ornithological Institute, Spain; JA: Aranzadi Zientzia Elkartea, Spain; SB: British Trust for Ornithology, UK; LB: Forest Science and Technology Centre of Catalonia, Spain; BC: BirdWatch Ireland, Republic of Ireland; TC: Polish Society for the Protection of Birds, Poland; GD: BioloVision, Switzerland; CD: Societatea Ornitologica Romana, Romania; FF: Norsk Ornitologisk Forening, Norway; RF: Dutch Centre for Field Ornithology, the Netherlands; CG: Laboratório de Ornitologia (LABOR), Portugal; MH: Natuurpunt, Belgium; PJ: Ligue pour la Protection des Oiseaux, France; AK: Estonian Ornithological Society, Estonia; NK: Magyar Madártani és Természetvédelmi Egyesület, Hungary; IK: Association BIOM, Croatia; IKO: Milvus Group, Romania; RL: Swiss Ornithological Institute, Switzerland; IL: Doğa, Turkey; PL: Natur&mwelt, Luxembourg; SM: British Trust for Ornithology, UK; BM: Sociedad Española de Ornitología, Spain; JN: Swedish Species Information Centre, Sweden; AO: Dansk Ornitologisk Forening, Denmark; JP: Aves-Natagora, Belgium; YP: Society for the Protection of Nature in Israel, Israel; CP: Centre d'Estudis de la Natura i de la Muntanya d'Andorra, Andorra; GP: Bulgarian Society for the Protection of Birds, Bulgaria; DP: Hellenic Ornithological Society, Greece; IP: Latvian Fund for Nature, Latvia; JR: SOS/BirdLife, Slovenia; HS: Swiss Ornithological Institute, Switzerland; NT: BirdLife Austria, Austria; GT: Dutch Centre for Field Ornithology, the Netherlands; PU: BirdLife Suomi, Finland; DV: Observation.org, the Netherlands; ZV: Czech Society for Ornithology, Czech Republic; DV: Forest Science and Technology Centre of Catalonia, Spain; JW: Dachverband Deutscher Avifaunisten, Germany; CW: Cornell Lab Ornithology, USA

Thanks to the work undertaken in the framework of the LIFE EBP project (2016-2018), the new version of the EuroBirdPortal - EBP (<https://www.eurobirdportal.org>) viewer is now depicting the spatio-temporal patterns of bird distribution of 105 bird species in near real-time. This unprecedented development has required the creation of a new central database repository and the implementation of an automated data flow system between the local online portals and the EBP central database. Now, the central database repository infrastructure, developed using PostgreSQL on an Amazon instance, collects all the data and automatically updates the tables used by the cloud data visualization platform CARTO so that the EBP viewer maps and graphs are kept updated on a weekly basis. Moreover, to facilitate the visualization of the most recent data a new functionality of the EBP viewer depicts animated maps based on the last 52 weeks of data. The automated data flow, on the other hand, uses a JSON schema to format the data provisions following the new EBP data standard and an API/web service to manage the data exchange flow automatically. Data provisions mostly take place on a daily or weekly basis and include new data and edits or deletions of the data submitted on previous occasions. The bulk of the data from the local online portals is received using this new automated data flow system. However, to ensure that this new version of the EBP viewer showed data from the whole partnership, for portals that were not connected automatically in the course of the LIFE project, mostly those that joined once the LIFE project started, a temporary manual or semiautomatic data flow solution was put in place. The overall relevance of these new developments and their implications for the future of the EBP project will be discussed.