

Éléments de bibliographie ornithologique marocaine

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Cette nouvelle livraison de nos 'Éléments de bibliographie ornithologique marocaine' regroupe une sélection d'articles traitant de l'avifaune du Maroc ¹. Parmi ceux-ci, nous avons distingué, comme dans les livraisons précédentes, ceux traitant spécifiquement de ce pays de ceux de portée plus générale mais concernant aussi le Maroc. Un résumé informatif suit certains d'entre eux, en particulier lorsque le titre n'exprime pas de façon évidente le lien avec le Maroc.

Un troisième paragraphe présente une sélection de travaux récents relatifs à d'autres pays proches (Espagne et Iles Canaries, Portugal, Libye, Tunisie, Algérie et Mauritanie en particulier), en lien direct avec l'avifaune marocaine.

Rappelons que la majeure partie de la bibliographie ornithologique marocaine disponible fin 2001 a été référencée dans 'The Birds of Morocco' (Thévenot, Vernon & Bergier 2003. British Ornithologist Union Checklist Series 20). Depuis, la majorité des nouveaux titres apparus ont été listés dans nos 'Éléments de bibliographie marocaine' :

- 1 (Bergier & Thévenot 2004 – *Go-South Bulletin* 1 : 7-12)
- 2 (Thévenot & Bergier 2005 – *Go-South Bulletin* 2 : 44-51)
- 3 (Thévenot & Bergier 2007 – *Go-South Bulletin* 4 : 32-41)
- 4 (Thévenot & Bergier 2008 – *Go-South Bulletin* 5 : 63-76)
- 5 (Thévenot & Bergier 2009 – *Go-South Bulletin* 6 : 113-123)
- 6 (Thévenot & Bergier 2010 – *Go-South Bulletin* 7 : 92-104)
- 7 (Thévenot & Bergier 2011 – *Go-South Bulletin* 8 : 44-52)
- 8 (Thévenot & Bergier 2012 – *Go-South Bulletin* 9 : 33-43)
- 9 (Thévenot & Bergier 2013 – *Go-South Bulletin* 10 : 86-101)
- 10 (Thévenot & Bergier 2014 – *Go-South Bulletin* 11 : 50-69)
- 11 (Thévenot & Bergier 2015 – *Go-South Bulletin* 12 : 84-98)
- 12 (Thévenot & Bergier 2016 – *Go-South Bulletin* 13 : 188-201)
- 13 (Thévenot & Bergier 2017 – *Go-South Bulletin* 14 : 181-192)
- 14 (Thévenot & Bergier 2019 – *Go-South Bulletin* 16 : 174-192)

Nous serions reconnaissant à toute personne ayant connaissance de publications récentes non signalées dans nos 'Éléments de bibliographie ornithologique marocaine' de bien vouloir nous en faire part. De même, nous

¹ Ainsi que des enclaves espagnoles de Ceuta et Melilla

vous remercions par avance de bien vouloir nous signaler toute erreur ou imprécision qui existerait dans les références présentées.

1. Nouveaux titres de bibliographie ornithologique marocaine

Il s'agit soit de titres parus depuis 2019, postérieurement à nos 'Éléments de bibliographie marocaine – 14' (cf. Thévenot & Bergier 2019 – *Go-South Bulletin* 16 : 174-192), soit de titres antérieurs non signalés dans nos quatorze précédentes livraisons.

Aispuro, A.A., Machowetz, C., Illa, M., Gargallo, G. & Maggini, I. 2020. Woodchat Shrike *Lanius senator* predation on migrating songbirds during a trans-Saharan stopover. *Ardeola* 67 (1) : 93-99.

[Field investigation in the oasis of Yasmina]

Anonyme 2020. Short-eared Owl tracked from Scotland to Morocco. *British Birds* 113 : 68.

[A female Short-eared Owl, fitted with a satellite tag whilst breeding in Scotland, has been tracked to Morocco, wintering near Oualidia]

Azaouaghe, S. 2020. Première nidification du Bruant du Sahara à Nador. *Go-South Bulletin* 17 : 121-122.

Azaouaghe, S., Thévenot, M. & Bergier, P. 2020. Première mention du Bruant du Sahara à Nador et compléments sur l'historique de l'expansion au Maroc. *Go-South Bulletin* 17 : 16-19.

Babouid, A., Abryka, H. & Cherkaoui, S.I. 2021. Sighting of a Common Crane far inland at Es-Semara (Moroccan Atlantic Sahara). *Go-South Bulletin* 18 : 19-21.

Bacon, L., Hingrat, Y. & Robert, A. 2017. Evidence of reproductive senescence of released individuals in a reinforced bird population. *Biological Conservation* 215 : 288-295.

[Study based on a 15-year nest survey of a North-African Houbara bustard *Chlamydotis undulata* population in Morocco]

Bacon, L., Hingrat, Y., Jiguet, F., Monnet, A.C., Sarrazin, F. & Robert, A. 2017. Habitat suitability and demography, a time-dependent relationship. *Ecology and Evolution* 7 (7) : 2214-2222.

[Study based on the survival rates of more than 3,000 nests monitored over 12 years (2003-2014) in the North African Houbara Bustard *Chlamydotis undulata* in two study areas in southern and eastern Morocco]

Bacon, L., Robert, A. & Hingrat, Y. 2019. Long lasting breeding performance differences between wild-born and released females in a reinforced North African Houbara bustard (*Chlamydotis undulata undulata*) population: a matter of release strategy. *Biodiversity and Conservation* 28 (7) : 553-570.

Barrios, V., Clavero, H., Numa, C., Martín, J. & Garrido, J.R. 2020. Un año de trabajos de campo con las rapaces de Marruecos. *Quercus* 408 : 42-43.

Bellout, S., Aït Baamrane, M.A., Aamiri, A. & Aourir, M. 2021. Changes in the population size of Yellow-legged Gull *Larus michahellis* at Essaouira and Mogador Islands, West-Central Morocco. *Marine Ornithology* 49 : 101-107.

Bergier, P., Thévenot, M. & Qninba, A. 2019. Notes naturalistes au Sahara Atlantique marocain – 8. *Go-South Bulletin* 16 : 193-249.

Böhm, C., Bowden, C.G.R., Seddon, P.J., Hatipoglu, T., Oubrou, W., El Bekkay, M., Quevedo, M.A., Fritz, J., Yenyurt, C., Lopez, J.M., Orueta, J.F., Frigerio, D. & Unsöld, M. 2020. The northern bald ibis *Geronticus eremita*: history, current status and future perspectives. *Oryx* 55 (6) : 934-946.

Bowden, C.G.R. 2021. The Northern Bald Ibis: population recovery and future prospects. *British Birds* 114 (9) : 541-553.

Butkauskas, D., Švažas, S., Bea, A., Prakas, P., Olano, I., Grishanov, G., Mischenko, A., Kozulin, A., Stanevičius, V., Báldi, A., Huysentruyt, F., Vaitkuvienė, D. & Red'kin, Y. 2019. Designation of flyways and genetic structure of Woodpigeon *Columba palumbus* in Europe and Morocco. *Journal of Wildlife Research* 65 (91). <https://doi.org/10.1007/s10344-019-1336-9>

Cabo, J.M. 2020. Jornadas Técnicas sobre Gaviota de Audouin en el Mar de Alborán celebradas en Melilla el 13 y 14 de mayo de 2019. *Revista Alcadón* 17 : 29-33.

[Présentation des résultats des campagnes de suivi réalisées en 2018 dans les cinq colonies de *Ichthyæetus audouinii* sous juridiction espagnole du détroit de Gibraltar et de la mer d'Alboran (en chiffres ronds) : Île

d'Alboran : 800 couples ; Melilla : 360 couples ; Peñón de Alhucemas : 250 couples ; Iles Chafarines : 200 couples ; Ceuta : 160 couples. Soit au total 1770 couples reproducteurs qui, ajoutés à ceux existant dans les colonies situées en territoire marocain, pourraient s'élever à 2000 environ]

Cambelo Jimenez, A.J. 2020a. Memoria de las actividades de marcaje con anillas de PVC de Cernícalo vulgar (*Falco tinnunculus*) en la ciudad autónoma de Ceuta durante el año 2019. *Revista Alcadón* 17 : 38-41.

Cambelo Jimenez, A.J. 2020b. Sobre la historia de la ornitología a ambos lados del estrecho de Gibraltar. *Revista Alcadón* 17 : 18-24.

Cambelo Jiménez, A.J. 2021. Memoria de las actividades de marcaje con anillas de PVC de Cernícalo vulgar (*Falco tinnunculus*) en la ciudad autónoma de Ceuta durante el año 2020. *Revista Alcadón* 18 : 43-45.

Castell, P. 2021. *Birds' nests - An obsession. A Nester's Story*. 356 pp.

[Inclut un chapitre sur le Maroc]

Cherkaoui, S.I., Boukherouk, M., Lakhali, T., Aghzar, A. & El Youssfi, L. 2020. Conservation Amid COVID-19 Pandemic: Ecotourism Collapse Threatens Communities and Wildlife in Morocco. *E3S Web of Conferences* 183, 01003.

Cherkaoui, S.I., El Yaacoubi, A., Aghzar, A., El Youssfi, L. & Qninba, A. 2020. Rapid extirpation of a newly discovered population of Little Bustard *Tetrax tetrax* in "Central plateau" (Morocco): lessons for conservation. *Bulletin de l'Institut Scientifique*, Rabat, section Sciences de la Vie 42 : 15-22.

Dakki, M., El Fellah, B. & Qninba, A. 2020. Rivers' natural reservoirs: new inputs to the classification of Mediterranean and Saharan wetlands. *Bulletin de l'Institut scientifique*, Rabat, section Sciences de la Vie 42 : 1-14.

Dufour, P., Sallé, L., de Franceschi, C., Morisot, A. & Delahaie, B. 2020. Are Red-rumped Swallows starting to winter in the Western Palearctic? *Dutch Birding* 42 (2) : 111-113.

Ebels, E.B. 2019. 'Brown' Temminck's Lark in Western Sahara, Morocco, in March 2018. *Dutch Birding* 41 (2) : 110-112.

El Hamoumi, R. & Rihane, A. 2019. *Guide de terrain des oiseaux d'eau au Maroc*. Publication du GREPOM/Birdlife Maroc n° 4. 80 pp.

El Hassani, A., Mansouri, I., Squalli, W., El Agy, A., Assouguem, A., Bouayad, K., Markou, A., Mounir, M., Achiban, H., Dakki, M. & El Ghadraoui, L. 2021. Breeding Performances of the European Blackbird (*Turdus merula*) in Morocco: Habitat Selection, Breeding Phenology, and Breeding Success. *International Journal of Zoology* vol. 2021, Article ID 7742894, 8 pp. <https://doi.org/10.1155/2021/7742894>.

El Khamlichi, R. 2020. Le Vautour de Rüppell (*Gyps rueppelli*), un migrateur régulier au Maroc en voie de sédentarisation dans la Péninsule Ibérique. *Go-South Bulletin* 17 : 156-160.

El Khattabi, A. 2021. Reproduction d'Anatidés rares dans le Delta de l'Oued Martil, au nord du Maroc. *Go-South Bulletin* 18 : 55-62.

El Krik, B. & Bousadik, H. 2020. Un Grand-duc d'Europe près d'Al Hoceima. *Go-South Bulletin* 17 : 22-23.

Fareh, M., Maire, B., Laïdi, K., Ennoury, A., Rousselon, K., Franchimont, J. & CHM. 2020. Les oiseaux rares au Maroc. Rapport de la Commission d'Homologation Marocaine numéro 25. *Go-South Bulletin* 17 : 104-120.

Garrido, J.R., Martín-Martín, J. & Clavero Sousa, H. 2020. An overview of the first international symposium on the Rüppell's Vulture in the Mediterranean region, 24th March 2021. *Vulture News* 79 : 38-44.

[The Rüppell's Vulture was first observed in Morocco in June 2002 close to the southern shore of the Strait of Gibraltar. The observations have been increasing since then, from one individual in 2002 to 55 in 2020, corresponding with the increasing number of migrant European Griffon Vultures returning from sub-Saharan Africa in spring. A scientific monitoring programme for the species was launched in June 2020 by the Department of Water and Forests and GREPOM/BirdLife, in collaboration with AMPR and the Emirates Center For Wildlife Propagation (ECWP). This programme has succeeded in the capture and tagging with patagial tags of 26 immature individuals, 12 of which were also equipped with GPS and Argos satellite transmitters. Monitoring of these individuals has shown routes to sub-Saharan Africa through Morocco, Mauritania, southwest Algeria, Mali, Senegal, Gambia and Burkina Faso. Of the 12 GPS-tagged vultures, only one is still active in The Gambia. Several died and almost all stopped transmitting after a few months, of which nine were found dead in the Sahara and Sahel region due to electrocution, illegal taking and other undefined causes. Recently two individuals were rehabilitated and released after being recovered in northern and central Morocco]

- Greig-Smith, P.W.** 2020. Winter breeding season of Brown-throated Martins *Riparia paludicola* in Morocco. *Ostrich* 91 (4) : 356-359.
- Greig-Smith, P.W.** 2021. Colonial versus solitary breeding: nesting patterns of Brown-throated Martins *Riparia paludicola* in Morocco. *Ostrich* 92 (3) : 203-217.
- GREPOM & INITIATIVE PIM.** 2020. *Archipel d'Essaouira. Un modèle de conservation à l'échelle mondiale.* 10 pp.
- Guelaya** 2019. *Conclusiones de las Jornadas Técnicas sobre Gaviota de Audouin en el Mar de Alborán celebradas en Melilla el 13-14 de mayo de 2019.* *Ecologistas en Acción Melilla* 6 pp.
- Guirado Cajal, M.A.** 2020. Noctua. Tendencia de las aves nocturnas en Ceuta. *Revista Alcadón* 17 : 36-37.
- Guirado Cajal, M.A.** 2021a. Pardelas y contaminación lumínica. *Revista Alcadón* 18 : 3-4.
- Guirado Cajal, M.A.** 2021b. Censo nacional de aves acuáticas. *Revista Alcadón* 18 : 29-30.
- Guirado Cajal, M.A.** 2021c. SEO/BirdLife denuncia la destrucción de la colonia de reproducción de la Gaviota de Audouin en el puerto de Ceuta. *Revista Alcadón* 18 : 34-37.
- Guirado Cajal, M.A.** 2021d. Noctua. Tendencia de las aves nocturnas en Ceuta. *Revista Alcadón* 18 : 38-42.
- Guirado Cajal, M.A. & López Rodríguez, J.** 2021. Resultados anillamiento de Gaviota de Audouin (*Ichtyaetus audouinii*) en Ceuta, año 2020. *Revista Alcadón* 18 : 61-63.
- Guirado Cajal, M.A., López Rodríguez, J., Martínez Montes, A., Lapeña Sarrías, J.A., Guirado Moya, A., Silva Gutiérrez, I., Corral López, J.J. & Mayorga Navarro, I.** 2020. Resumen de resultados anillamiento Gaviota patiamarilla (*Larus michahellis*) año 2019. *Revista Alcadón* 17 : 49-50.
- Guirado Cajal, M.A., López Rodríguez, J., Rodríguez Ríos, M., Guirado Cajal, A., Martínez Montes, A., Valero Alonso, B., Rodríguez Alarcón, J. & Mayorga Navarro, I.** 2021. Resumen de resultados anillamiento Gaviota patiamarilla (*Larus michahellis*) año 2020. *Revista Alcadón* 18 : 49-50.
- Guirado Moya, A. & Guirado Cajal, M.A.** 2020. Proyecto AVIN en Ceuta. *Revista Alcadón* 17 : 100-101.
- Guirado Moya, A. & Guirado Cajal, M.A.** 2021. Proyecto AVIN en Ceuta. *Revista Alcadón* 18 : 99-103.
- Gutiérrez Expósito, C.** 2020. *Biology and Conservation of the Andalusian Buttonquail (Turnix sylvaticus sylvaticus Desf. 1789).* PhD Thesis, Universidad Pablo de Olavide, 230 pp. Available at <https://rio.upo.es/xmlui/bitstream/handle/10433/8188/gutierrez-expósito-tesis-19-20.pdf>
- Gutiérrez Expósito, C., Revilla, E. & Clavero, M.** 2020. Vanishing wildlife in populated areas : the demise of the Andalusian Buttonquail. *Journal of Ornithology* 161 : 759-768. <https://doi.org/10.1007/s10336-020-01771-y>.
[The Andalusian Buttonquail (*Turnix sylvaticus sylvaticus*) is a critically endangered taxon, which barely survives in a single population in western Morocco. Here, we describe how this taxon with a formerly wide distribution range, high reproductive rates, low trophic level in the food chain, small size and apparently coarse habitat requirements, is heading towards extinction. By means of environmental niche modelling, we outline its historical distribution and then at a regional scale (Andalucía) we explore the role of historical land use changes and human population trends in the rapid decline of the species]
- Gutiérrez-Expósito, C., García-Gorria, R., Qninba, A., Clavero, M. & Revilla, E.** 2020. Breeding ecology of the Andalusian Buttonquail *Turnix sylvaticus sylvaticus*. *Ostrich* 91 (1) : 75-82.
[The Andalusian Buttonquail is an endangered endemic of the Western Mediterranean, confined to a cultivated strip in the Moroccan Atlantic coast. We performed 2 302 sampling events to determine the presence-absence and breeding of the species. The breeding season lasted for eight months, from February to October. Present in 17 different crops, breeding occurred in all but cucumber and artichoke. However, a strong preference for breeding crops was found for alfalfa, pumpkin and maize fields. Nests were 82 mm × 71.4 mm grass-lined structures built on a ground scrape. Eggs had 26.14 mm mean maximum length, 20.24 mm mean diameter and weighed 5.9 g. All complete clutches had four eggs and the hatching rate was 3.42. All but one of the monitored nests successfully reared at least one chick. Clutch size and hatching rate matched other Buttonquail populations and species, so causes of the decline must be found in other stages of the reproductive cycle. In this sense, additional studies are needed to reveal chick and juvenile survival]
- Hanane, S. & Besnard, A.** 2014. Are nest-detection probability methods relevant for estimating turtle dove breeding populations ? a case study in Moroccan agroecosystems. *European Journal of Wildlife Research* 60 (4) : 673-680.
- Hane, M.S., Kharraj, S., Laaroussi, A.S., Hane, M. & Qninba, A.** 2020. Expansion vers le nord du Moineau blanc *Passer simplex* dans le Sahara Atlantique. *Go-South Bulletin* 17 : 8-10.

Hane, M.S., Maire, B. & Qninba, A. 2020. De nouvelles observations de 'Cochevis huppés' dans le Sahara Atlantique Marocain. *Go-South Bulletin* 17 : 43-47.

Hane, M.S., Kharraj, S., Hane, B. & Qninba, A. 2021. Un cas de séjour hivernal prolongé de l'Étourneau sansonnet *Sturnus vulgaris* dans la zone de Fom El Oued (Région de Laâyoune-Saquia Al Hamra, Sahara atlantique, Maroc). *Go-South Bulletin* 18 : 17-18.

Hardouin, L.A., Robert, A., Nevoux, M., Gimenez, O., Lacroix, F. & Hingrat, Y. 2014. Meteorological conditions influence short-term survival and dispersal in a reinforced bird population. *Journal of Applied Ecology* 51 (6) : 1494-1503.

[Study based on a on long-term monitoring data of captive-bred North African houbara bustards *Chlamydotis undulata undulata* population in Morocco]

Hernández-Téllez, I., Aguirre, J.I., de la Hera, I., Onrubia, A. & Tellería, J.L. 2021. Feather traits in four southern populations of the Eurasian blackcap *Sylvia atricapilla*: do altitudinal movements explain the differences? *Journal of Avian Biology* <https://doi.org/10.1111/jav.02832>.

[Moult of birds is shaped by environmental and genetic drivers whose relative contribution to the structure of feathers may differ within and between populations. In this study, the authors compare some traits of tail feathers (growth bars, mass, rachis width and barb length) between four populations of the Eurasian blackcap *Sylvia atricapilla* breeding at different elevations within the southwestern Palaearctic. The four study areas are located in the Iberian Peninsula (Guadarrama Mountains and Los Alcornocales Natural Park) and in Morocco (Rif and Atlas Mountains), covering different elevation ranges within the typical Mediterranean climatic conditions]

Hilmi, M., Fernandes, P., Hassani, H., El Agbani, M.A., El Hamoumi, R. & Qninba, A. 2020. Valeur ornithologique d'un plan d'eau douce menacé, la Daya de Takaddoum (Vallée de l'Oued Bouregreg, nord-ouest du Maroc). *Go-South Bulletin* 17 : 24-42.

Hmamouchi, M.J., Agharroud, K., Dahmani, J. & Hanane, S. 2020. Seeking the least urbanized landscape: white stork nest abundance variation in a Mediterranean capital city. *European Journal of Wildlife Research* 66 (5) : 71.

[Knowledge of the factors influencing variation of nest abundance in cities is a major topic in urban ecology with important management and planning implications. In the present study, we aimed to investigate this issue with regards to white stork (*Ciconia ciconia*) in the capital of Morocco, Rabat]

Hmamouchi, M.J., Agharroud, K., Dahmani, J. & Hanane, S. 2020. Landscape and coloniality are robust predictors of White Stork nest habitat selection in a coastal urban environment. *Estuarine, Coastal and Shelf Science* 242 : 106825.

[Etude menée sur la population de Cigogne blanche (*Ciconia ciconia*) de la ville de Rabat, Maroc]

Irizi, A., Aourir, M., Mouadi, J. & Qninba, A. 2020. Prédation de l'Aigle de Bonelli *Aquila fasciata* sur le Fouette-queue du Maroc *Uromastix nigriventris* pendant la saison de reproduction dans l'Anti-Atlas Occidental (Maroc). *Go-South Bulletin* 17 : 87-90.

Irizi, A., Aourir, M., Znari, M., El Agbani, M.A. & Qninba, A. 2019. Spatial distribution and breeding territories of Bonelli's Eagle *Aquila fasciata* in the western Anti-Atlas Mountains, Morocco. *Ostrich* 90 (3) : 241-246.

[En Afrique du nord, l'aire de répartition de l'Aigle de Bonelli *Aquila fasciata* (Vieillot, 1822) s'étend jusqu'aux zones limitrophes nord du Sahara. Ce travail rapporte les premières données sur la répartition et la densité des Aigles de Bonelli reproducteurs au sud-ouest du Maroc, à la limite sud de leur aire de nidification dans le Paléarctique occidental. Nous avons effectué un échantillonnage à grande échelle afin d'identifier les territoires de nidification de l'Aigle de Bonelli et leur distribution spatiale, sur une aire d'environ 29 715 km² dans les montagnes de l'Anti-Atlas occidental au sud-ouest du Maroc, durant la période 2016–2018. Nous avons repéré 28 territoires de nidification accueillant 40 nids utilisés par l'espèce, répartis de manière hétérogène dans des zones à forte variation topographique, allant de 60 à 1 890 m d'altitude. La distance moyenne entre nids voisins les plus proches est de 14,12 ± 9,90 km et varie de 2,65 km au nord-ouest à 37,80 km dans les zones présahariennes au sud-ouest de la zone d'étude. Ces résultats montrent l'importance de l'Anti-Atlas occidental en tant que l'un des plus importants bastions de l'espèce au Maroc. Cependant, des analyses systématiques des différents facteurs affectant la répartition de l'espèce restent nécessaires pour mettre en œuvre des actions de conservation de cette population péripérienne]

Irizi, A., Aourir, M., El Agbani, M.A. & Qninba, A. 2021. Correlates of persistent electrocution-related mortality of raptors in Guelmim-Oued Noun province, Morocco. *Ostrich* 92 (2) : 85-93.

Lapeña Sarrias, J.A. & Guirado Cajal, M.A. 2020. Resultados anillamiento de Gaviota de Audouin (*Ichtyaetus audouinii*) año 2019. *Revista Alcadón* 17 : 63-65.

López Rodríguez, J. 2020a. Proyecto RAM en Ceuta. Informe año 2019. *Revista Alcadón* 17 : 76-78.

López Rodríguez, J. 2020b. Resumen de lectura de anillas de otros proyectos. Año 2019. *Revista Alcadón* 17 : 72-75.

López Rodríguez, J. 2021a. Proyecto RAM en Ceuta. Informe Año 2020. *Revista Alcadón* 18 : 73-75.

López Rodríguez, J. 2021b. Resumen de lectura de anillas de otros proyectos. Año 2020. *Revista Alcadón* 18 : 69-72.

Mansouri, I., Dakki, M., Squalli, W., Ousaaid, D., Elfalah, S. & Elghadraoui, L. 2020. Field investigation of Turtle doves' courtship: vocal calls versus arc-flight. *Journal of Animal Behaviour and Biometeorology* 8 (2) : 32-40.

[This study on *Streptopelia turtur* was performed in the Ait Ayach valley situated in the West of the Moulouya plain in Midelt Province, Morocco]

Mansouri, I., Mounir, M., Squalli, W., Elhanafi, L., Dakki, M. & El Ghadraoui, L. 2020. Migratory Dates, Breeding Phenology, and Reproductive Success of European Turtle Doves between Lowlands and Highest Breeding Habitats in North Africa. *International Journal of Zoology* vol. 2020, Article ID 8816577, 7 pages. <https://doi.org/10.1155/2020/8816577>.

[The migratory time, breeding chronology, and reproductive success of the European turtle doves (*Streptopelia turtur*) were studied in Midelt as a high-altitude breeding habitat and Beni Mellal as a low-altitude breeding site from 2015 to 2018 in Morocco]

Mansouri, I., Ousaaid, D., Squalli, W., El Agy, A., El-Hassani, A., Mounir, M., Elghadraoui, L. & Dakki, M. 2021. New Data on Migration Time, Breeding Phenology, and Breeding Success of European Turtle Doves in Their Highest Breeding Habitats in North Africa. *International Journal of Zoology*, vol. 2021, Article ID 6629285, 8 pages. <https://doi.org/10.1155/2021/6629285>.

[Data were recorded at Midelt (1400 to 1600 m), Morocco, from March to October between 2015 and 2018]

Mansouri, I., Ousaaid, D., Squalli, W., Squalli, H., El Ghadraoui, L. & Dakki, M. 2020. The turtle dove (*Streptopelia turtur*) in Midelt plain, Morocco: nesting preferences and breeding success versus the impact of predation and agricultural practices. *Journal of Animal Behaviour and Biometeorology* 8 (3) : 206-214.

Mansouri, I., Squalli, W., Dakki, M., Assouguem, A., El Agy, A., El Hassani, A., Belarbi, C., Dbiba, Y., Kouali, H. & El Ghadraoui, L. 2021. Breeding Biology, Chronology, and Reproductive Success of the European Serin (*Serinus serinus*) at Moulouya High Plain (Morocco). *International Journal of Zoology*, vol. 2021, Article ID 8737951, 8 pages, 2021. <https://doi.org/10.1155/2021/8737951>.

Mansouri, I., Squalli, W., El Agy, A., Ben Hichou, B., El Hassani, A., El Ghadraoui, L. & Dakki, M. 2021. Avifauna Diversity in the Gate between Humid Atlas and Saharan Desert: Midelt Province, Morocco. *International Journal of Zoology*, vol. 2021, Article ID 5557921, 10 pages. <https://doi.org/10.1155/2021/5557921>.

[The analysis of biological diversity at a regional scale is the first step to understand and classify the biological importance of a specific region and therefore the adoption of implementing conservation strategies. We conducted weekly bird counts by using the point count method from January 2015 to December 2017 in Midelt province, Morocco. A total of 130 bird species were observed, among breeding, migrant, and wintering species belonging to 42 families. Accipitridae (15 species), Muscicapidae (9 species), and Alaudidae (9 species) were the most observed families. Order of Passeriformes was the dominant order represented with 16 families and 68 species. Moreover, five species of conservation concern were recorded such as the vulnerable European turtle dove, houbara bustard, and Dupont's lark; the near threatened ferruginous duck and bearded vulture; and the endangered Egyptian vulture. On the other hand, the results of the diversity analysis showed the highest diversity in wetlands, forests, steppes, and farmlands, while cliff, landfills, and urban areas were the least diversified habitats. Finally, with its geographic situation between humid Atlas and Sahara desert, as well as the diversity of habitats and avifauna, Midelt region needs advanced analysis in terms of biodiversity and environmental characteristics, in order to provide effective conservation management]

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[This study, carried out during four years (2015-2018), compares nesting features of Turtle Dove *Streptopelia turtur* and its breeding success between apple orchards and riparian vegetation in Midelt Province, Morocco]

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[Un Labbe parasite bagué poussin en Finlande revu à l'âge de 33 ans dans le Courant des Canaries au large des côtes sahariennes]

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Monnier-Corbel, A., Monnet, A.C., Hingrat, Y. & Robert, A. 2021. Patterns of abundance reveal evidence of translocation and climate effects on Houbara bustard population recovery. *Animal Conservation* <https://doi.org/10.1111/acv.12738>.

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Navarrete Pérez, J. 2021a. Excursion a Marruecos. *Revista Alcadón* 18 : 31-32.

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- Rihane, A., Hane, M.S., Radi, M. & Qninba, A.** 2020. Afflux de Fauvettes de l'Atlas *Sylvia deserticola* dans la région de Laâyoune (Sahara Atlantique Marocain) en début d'hiver 2019-2020. *Go-South Bulletin* 17 : 48-54.
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- Rousselon, K.** 2020. Alianza entre cuervos y alcotanes en Marruecos. *Quercus* 411 : 54-55.
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[This study compares the distribution of the European turtle dove (*Streptopelia turtur*) in Spain and Morocco. These countries, which are separated by the Strait of Gibraltar, are each occupied by a different subspecies (i.e. *Streptopelia turtur turtur* in Spain and *S. t. arenicola* in Morocco) that may be adapted to different environmental conditions. Such differentiation could result in differences in the species' abundance between the two countries. The occurrence of this dove was assessed by means of road counts, and the resulting records were used to explore the niche overlap between the two subspecies]

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[Etude menée dans des forêts du Maroc]

Teyar, Y., Giunchi, D., Baratti, M., Falchi, V., Znari, M. & Aourir, M. 2020. Does the breeding biology of the Eurasian Stone-curlew *Burhinus oedicanus* in south-western Morocco differ between grazed steppe and irrigated farmland? *Acta Ornithologica* 55 (2): 215-225.

[In this study, we investigated the breeding biology of the Eurasian Stone-curlew nesting in grazed steppes and irrigated farmlands in south-western Morocco. Breeding data were collected during 2017 and 2018 breeding seasons on 59 nests. Egg volume was significantly higher in grazed steppes than in irrigated farmlands (37.3 ± 2.30 cm³ vs 35.1 ± 2.11 cm³, average \pm SD), possibly due to greater food availability in the former habitat. On the other hand, daily nest survival over the incubation period did not differ between habitats and it was quite high (0.85 [95% CI: 0.71–0.93]) also when compared to the data available for other regions. These results suggest that birds nesting in protected areas characterized by traditional pastoralism might find better conditions for reproduction which allow them to lay larger eggs. In addition, the ongoing process of agricultural intensification in the area does not seem to affect the likelihood of nest failure]

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2. Autres titres d'intérêt général concernant l'avifaune marocaine

Albrecht, F., Hering, J., Fuchs, E., Illera, J.C., Ihlow, F., Shannon, T.J., Collinson, J.M., Wink, M., Martens, J. & Päckert, M. 2020. Phylogeny of the Eurasian Wren *Nannus troglodytes* (Aves: Passeriformes: Troglodytidae)

reveals deep and complex diversification patterns of Ibero-Maghrebian and Cyrenaican populations. *PLoS ONE* 15 (3) e0230151. <https://doi.org/10.1371/journal.pone.0230151>.

[The Eurasian Wren *Nannus troglodytes* (until recently referred to as *Troglodytes troglodytes*; see explanation below ¹) inhabits the Ibero-Maghrebian Region at the south-western periphery of its Palearctic-wide distributional range. In the Eurasian Wren, two North African subspecies represented separate basal lineages from the Maghreb (*N. t. kabyloorum*) and from the Libyan Cyrenaica (*N. t. juniperi*), being only distantly related to other Mediterranean populations. Although *N. troglodytes* appeared to be paraphyletic with respect to the Nearctic Winter Wren (*N. hiemalis*), respective nodes did not receive strong statistical support. In contrast, paraphyly of the Ibero-Maghrebian taxon *N. t. kabyloorum* was strongly supported. Southern Iberian populations of *N. t. kabyloorum* did not clade with Maghrebian populations of the same subspecies but formed a sister clade to a highly diverse European clade (including nominate *N. t. troglodytes* and eight further taxa).

¹ According to a recent molecular study, there is increasing evidence that the genus *Troglodytes* is not monophyletic. Therefore it was recommended to transfer *T. troglodytes*, *T. pacificus*, and *T. hiemalis* into the re-established genus *Nannus* Billberg, 1828, and to restrict the genus name *Troglodytes* Vieillot, 1809, to a monophyletic group of New World taxa. Although these taxonomic recommendations have not yet been implemented into a major taxonomic compendium, the authors assume that this will be inevitably the case in the near future]

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[In this study the authors analysed isotopic and genetic data of the Iberian chiffchaff *Phylloscopus ibericus*, to shed light into the still unclear wintering grounds, population size and evolutionary history of this species included until recently within the common chiffchaff *Phylloscopus collybita* due to their phenotypic similarity. Their results strongly support the idea that Iberian chiffchaffs winter in tropical Africa. They additionally reconstructed the phylogeny and evolutionary history of the Iberian chiffchaff's clade using mitochondrial and nuclear markers. Their results revealed relatively high values of nucleotide diversity for the species that were greater than the values of the common/Iberian most recent common ancestor. This suggests that the Iberian chiffchaff did not experience strong bottlenecks after diverging from the common chiffchaff approximately one million years ago]

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[To assess the importance of Protected areas to affect species distribution change, the authors evaluated the changes in a non-breeding waterbird community as a response to temperature increase and protection status, using changes of species occurrence in the Western-Palearctic over 25 years (97 species, 7,071 sites); they used International Waterbird Census data from almost all of the Western-Palearctic from 1993 to 2017 in 39 countries of which Morocco (65 sites), Algeria (75 sites) and Tunisia (31 sites)]

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Ławicki, Ł. 2020. Go north – range extension of Namaqua Dove in the Palearctic and South Asia. *Dutch Birding* 42 : 103-111.

Loonstra, A.H.J., Verhoeven, M.A., Senner, N.R., Both, C. & Piersma, T. 2019. Adverse wind conditions during northward Sahara crossings increase the in-flight mortality of Black-tailed Godwits. *Ecology Letters* 22 (12) : 2060-2066.

[Long-distance migratory flights are predicted to be associated with higher mortality rates when individuals encounter adverse weather conditions. However, directly connecting environmental conditions experienced in-flight with the survival of migrants has proven difficult. We studied how the in-flight mortality of 53 satellite-tagged Black-tailed Godwits (*Limosa limosa limosa*) during 132 crossings of the Sahara Desert, a major geographical barrier along their migration route between The Netherlands and sub-Saharan Africa, is correlated with the experienced wind conditions and departure date during both southward and northward migration. We show that godwits experienced higher wind assistance during southward crossings, which seems to reflect local prevailing trade winds. Critically, we found that fatal northward crossings (15 deaths during 61 crossings) were associated with adverse wind conditions. Wind conditions during migration can thus directly influence vital rates. Changing wind conditions associated with global change may thus profoundly influence the costs of long-distance migration in the future]

Louzao, M., Delord, K., García, D., Boué, A. & Weimerskirch, H. 2012. Protecting Persistent Dynamic Oceanographic Features: Transboundary Conservation Efforts Are Needed for the Critically Endangered Balearic Shearwater. *PLOS ONE* 7: e35728. <https://doi.org/10.1371/journal.pone.0035728>.

Martín Martín, J., Barrios, V., Clavero Sousa, H. & Garrido López, J.R. 2019. Les oiseaux et les réseaux électriques en Afrique du Nord. Guide pratique pour l'identification et la prévention des lignes électriques dangereuses. UICN Gland, Suisse et Malaga, Espagne, xvi + 272.

Mateos-Rodríguez, M., Thomas, L. & Arroyo, G.M. 2012. The Development and Use of a Method to Fill Time Gaps in Migration Counts. *The Condor* 114 (3) : 513-522. <https://doi.org/10.1525/cond.2012.100053>.

[Migration counts from points strategically located on the coast can be a reliable and effective method for estimates of numbers of seabirds migrating past a specific site. The authors propose a consistent and statistically robust method for estimating such numbers by generalized additive modeling of the numbers passing during periods when counts are interrupted. They applied their method with three species of seabirds migrating through the Strait of Gibraltar. Estimated numbers of the Northern Gannet (*Morus bassanus*) are similar to the estimated Atlantic population that winters in the western Mediterranean Sea, while for both Cory's (*Calonectris diomedea*) and Balearic (*Puffinus mauretanicus*) Shearwaters they are greater than the current population estimates. These results have important implications in conservation and highlight the necessity for reestimation of the latter two species' global population]

MNHN. 2016. *Stratégie de migration du Bruant ortolan*. Rapport final du Comité scientifique. 17 p. + 5 Annexe. <https://www.actu-environnement.com/media/pdf/news-28115-etudemnhsortolans.pdf>

[Les données de photomètres géolocalisateurs, de génétique et d'isotopes stables ont mis en évidence deux principales voies de migration (orientale et occidentale) utilisées par les ortolans européens. La voie orientale est utilisée par les populations nichant en Russie et dans tous les pays situés à l'Est d'une ligne de partage reliant la Biélorussie à la Serbie. Cette voie orientale est empruntée par environ 4.283.250 couples représentant 90% de la population européenne. Ces oiseaux hivernent sur les hauts plateaux éthiopiens et érythréens. La voie occidentale est utilisée par les populations nichant à l'ouest de la ligne de partage située dans le centre de l'Europe. Ces oiseaux hivernent en Afrique de l'Ouest, de la Sierra Leone au sud de la Mauritanie et du Mali, surtout en Guinée. Cette voie est empruntée par environ 468.700 couples, représentant 10% de la population nicheuse européenne. Les principaux sites de halte migratoire sont situés en Espagne et dans le nord du Maroc]

Monti, F., Grémillet, D., Sforzi, A., Dominici, J.M., Triay Bagur, R., Muñoz Navarro, A., Fusani, L., Klaassen, R.H.G., Alerstam, T. & Duriez, O. 2018. Migration distance affects stopover use but not travel speed: contrasting patterns between long- and short-distance migrating ospreys. *Journal of Avian Biology* 9 (10) : e01839.

Morandini, V., González, E., Bildstein, K. & Ferrer, M. 2020. Juvenile dispersal in an uninhabited continent: young Spanish Imperial Eagles in Africa. *Journal of Ornithology* 161 (2) : 373-380.

Nagy, S. & Langendoen, T. 2020. *Flyway trend analyses based on data from the African-Eurasian Waterbird Census from the period of 1967-2018*. Online publication. Wetlands International, Wageningen, The Netherlands. <http://iwc.wetlands.org/static/files/IWC-trend-analysis-report-2020.pdf>.

Onrubia, A., Torralvo, C. & Martín, B. 2019. Migración de la cigüeña blanca por el estrecho de Gibraltar (conteos visuales). pp. 90-95 in **Bécares, J., Blas, J., López-López, P., Schulz, H., Torres-Medina, F., Flack, A., Enggist, P., Höfle, U., Bermejo, A. & De la Puente, J.** *Migración y ecología espacial de la cigüeña blanca en España*. Monografía n.º 5 del programa Migra. SEO/BirdLife. Madrid. <https://doi.org/10.31170/0071>.

Päckert, M., Bader-Blukott, M., Künzelmann, B., Sun, Y.H., Hsu, Y.C., Kehlmaier, C., Albrecht, F., Illera, J.C. & Martens, J. 2020. A revised phylogeny of nuthatches (Aves, Passeriformes, Sitta) reveals insight in intra- and interspecific diversification patterns in the Palearctic. *Vertebrate Zoology* 70 (2) : 241-262.

[Intègre trois échantillons du Maroc]

Pavón Jordán, D., Abdou, W., Azafzaf, H., Balaž M., Bino, T., Borg, J.J., Božič, L., Butchart, S.H.M., Clausen, P., Sniakusta, L., Dakki, M., Devos, K., Domsa, C., Encarnaçao, V., Etayeb, K., Faragó, S., Fox, A.D., Frost, T., Gaudard, C., Georgiev, V., Goratze, I., Hornman, M., Keller, V., Kostiuskyn, V., Langendoen, T., Ławicki, Ł., Ieronymidou, C., Lewis, L.J., Lorentsen, S.H., Luigujoe, L., Meissner, W., Mikuska, T., Molina, B., Musil, P., Musilova, Z., Nagy, S., Natykanets, V., Nilsson, L., Paquet, J.Y., Portolou, D., Ridzon, J., Santangeli, A., Sayoud, S., Šćiban, M., Stipnice, A., Teufelbauer, N., Topić, G., Uzunova, D., Vizi, A., Wahl, J., Yavuz, K.E., Zenatello, M., & Lehikoinen, A. 2020. Positive impacts of important bird and biodiversity areas on wintering waterbirds under changing temperatures throughout Europe and North Africa. *Biological Conservation* 246 : 108549.

Pellegrino, I., Cucco, M., Calà, E., Boano, G. & Pavia, M. 2020. Plumage coloration and morphometrics of the Little Owl *Athene noctua* in the Western Palearctic. *Journal of Ornithology* 161 (4) : 1071-1081.

Perktaş, U., De Silva, T.N., Quintero, E. & Tavşanoğlu, Ç. 2019. Adding ecology into phylogeography: ecological niche models and phylogeography in tandem reveals the demographic history of the subalpine warbler complex. *Bird Study* 66 (2) : 234-242.

Phipps, W.L., López-López, P., Buechley, E.R. et al. 2019. Spatial and Temporal Variability in Migration of a Soaring Raptor Across Three Continents. *Frontiers in Ecology and Evolution* 7 (323). Doi : 10.3389/fevo.2019.00323.

[Study based on the analysis of a large telemetry dataset of the globally endangered Egyptian Vulture *Neophron percnopterus* (94 individuals, 188 completed migratory journeys), tracked across ~70% of the species' global range, to analyze spatial and temporal variability of migratory movements within and among individuals and populations]

Pons, J.M., Masson, C., Olioso, G. & Fuchs, J. 2019. Gene flow and genetic admixture across a secondary contact zone between two divergent lineages of the Eurasian Green Woodpecker *Picus viridis*. *Journal of Ornithology* 160 (4) : 935-945.

Prakas, P., Butkauskas, D., Švažas, S., Bea, A., Yanenko, V., Ragauskas, A. & Vaitkuvienė, D. 2021. The Genetic Diversity and Structure of the European Turtle Dove *Streptopelia turtur*. *Animals* 11 : 1283.

[The European Turtle Dove, *Streptopelia turtur*, is a widespread Palearctic species. Due to a long-term population decline, it is listed as vulnerable by the IUCN. Population genetics studies are important to the management of threatened species. The present study aimed to identify the possible genetic divergence in the European Turtle Dove. A total of 258 birds collected from Spain, Ukraine, and Morocco were examined using mitochondrial DNA cytochrome-b and D-loop sequence analysis. The high genetic diversity was evaluated in both loci analysed. Various population genetic analyses displayed genetic differences between Turtle Doves from Morocco and Ukraine, and certain Spanish samples. The results of this study will be vital for effective conservation and sustainable management of this vulnerable species]

Recuerda, M., Illera, J.C., Blanco, G., Zardoya, R. & Milá, B. 2021. Sequential colonization of oceanic archipelagos led to a species-level radiation in the common chaffinch complex (Aves: *Fringilla coelebs*). *Molecular Phylogenetics and Evolution* 164 : 107291.

[Le processus de colonisation des archipels de l'Atlantique Nord par les Pinsons des arbres *Fringilla coelebs* du continent aurait débuté il y a environ un million d'années. Les colonisateurs seraient arrivés plutôt d'Europe (ssp *coelebs*) que d'Afrique du Nord (ssp *africana*). Les Açores ont été les premières terres atteintes, suivies par Madère puis des Canaries. Aux Açores, la diversité génétique est particulièrement élevée, comparable à celle sur le continent, tandis que sans surprise, elle est plus faible sur les îles des Canaries les plus récemment colonisées. Il s'agit donc là d'un exemple de radiation évolutive.

Les auteurs recommandent une révision taxonomique qui prend en compte la diversité génétique et phénotypique du complexe d'espèces jusqu'ici confondues dans le binôme *Fringilla coelebs* et proposent de reconnaître cinq espèces distinctes :

- Le Pinson des arbres (*Fringilla coelebs*), avec différentes sous-espèces réparties en Europe continentale
- Le Pinson d'Afrique du Nord (*Fringilla spodiogenys*), composé de trois sous-espèces (*F. s. spodiogenys*, *F. s. africana* et *F. s. harterti*). [Soulignons que 8 spécimens de *F. s. africana* de Ceuta figurent dans l'échantillonnage, mais aucun spécimen des ssp *spodiogenys* et *harterti*]
- Le Pinson des Açores (*Fringilla moreletti*)
- Le Pinson de Madère (*Fringilla maderensis*)
- Le Pinson des Canaries (*Fringilla canariensis*) avec quatre sous-espèces : *F. c. canariensis* sur Tenerife et La Gomera, *F. c. palmae* sur La Palma, *F. c. ombriosa* sur El Hierro, et *F. c. bakeri* sur Gran Canaria]

Salewski, V., Flade, M., Lisovski, S., Poluda, A., Iliukha, O., Kiljan, G., Malashevich, U. & Hahn, S. 2019. Identifying migration routes and non-breeding staging sites of adult males of the globally threatened Aquatic Warbler *Acrocephalus paludicola*. *Bird Conservation International* 29 (4) : 503-514.

Schild, D.R., Scordato, E.S.C., Smith, C.C.R. et al. 2021. Sex-linked genetic diversity and differentiation in a globally distributed avian species complex. *Molecular Ecology* 30 (10) : 2313-2332.

[*Hirundo rustica*. L'étude intègre des spécimens du Maroc]

Schweizer, M. 2020. Diversification and taxonomy of birds characteristic of the Palearctic desert belt. *Dutch Birding* 42 (3) : 191-202.

Shirihai, H. & Svensson, L. 2018. *Handbook of Western Palearctic Birds. Volume 1 Passerines: Larks to Warblers. Volume 2 Passerines: Flycatchers to Buntings.* Helm, Bloomsbury Publishing, London.

Vansteelant, W.M.G., Klaassen, R., Strandberg, R., Janssens, K., T'Jollyn, F., Bouten, W., Koks, B.J. & Anselin, A. 2020. Western Marsh Harriers *Circus aeruginosus* from nearby breeding areas migrate along comparable loops, but on contrasting schedules in the West African – Eurasian flyway. *Journal of Ornithology* 161 (4) : 953-965.

Vansteelant, W.M.G., Gangoso, L., Bouten, W., Viana, D.S. & Figuerola, J. 2021. Adaptive drift and barrier-avoidance by a fly-forage migrant along a climate-driven flyway. *Movement Ecology* 9, 37. <https://doi.org/10.1186/s40462-021-00272-8>.

[19 adult Eleonora's falcons tracked from the westernmost population on the Canary Islands across 39 autumn and 36 spring migrations to and from Madagascar]

Viganò, M., Corso, A., Illa, M. & Starnini, L. 2019. Identification of Mediterranean Flycatcher. *Dutch Birding* 41 (5) : 295-317.

Wang, E., Zhang, D., Braun, M.S., Hotz-Wagenblatt, A., Pärt, T., Arlt, D., Schmaljohann, H., Bairlein, F., Lei, F. & Wink, M. 2020. Can Mitogenomes of the Northern Wheatear (*Oenanthe oenanthe*) Reconstruct Its Phylogeography and Reveal the Origin of Migrant Birds? *Scientific Reports* 10: 9290. <https://doi.org/10.1038/s41598-020-66287-0>.

[This study is the first one to describe the complete mitogenome of the Northern Wheatear and to reconstruct phylogeographic relationships based on mitochondrial genomes using a large sample size. The results based on high-quality genetic data differ from the recent subspecies classification derived from morphological traits. The subspecies *O. o. oenanthe* and *O. o. leucorhoa* and even *O. seebohmi* (specimens from Morocco) cannot be distinguished by mtDNA. This might be the consequence of recent mitochondrial introgressive hybridizations between the taxa]

Zuccon, D., Pons, J.M., Boano, G., Chiozzi, G., Gamauf, A., Mengoni, C., Nespoli, D., Olioso, G., Pavia, M., Pellegrino, I., Raković, M., Randi, E., Rguibi Idrissi, H., Touihri, M., Unsöld, M., Vitulano, S. & Brambilla, M. 2020. Type specimens matter: new insights on the systematics, taxonomy and nomenclature of the subalpine warbler (*Sylvia cantillans*) complex. *Zoological Journal of the Linnean Society* 190 (1) : 314-341.

[This study revises the taxonomy of the *Sylvia cantillans* complex, a group of phenotypically distinct warblers with mainly parapatric distributions around a large part of the Mediterranean basin. The authors redefine the species limits using a combination of mitochondrial and nuclear markers and they link available names to the genetically defined lineages by genotyping the surviving type specimens. In addition, the study of archival documents clarifies the exact composition of type series and provides further evidence for the identification of lost types. These results support the recognition of three species-level taxa: Moltoni's warbler, *Sylvia subalpina* (north-central Italy, Corsica, Sardinia and the Balearics); the western subalpine warbler, *S. iberiae* (North Africa, Iberia, southern France and extreme north-west Italy); and the eastern subalpine warbler, *S. cantillans*, with subspecies *S. cantillans cantillans* (southern Italy, Sicily) and *S. cantillans albistriata* (Balkans, Greece, western Turkey).

The subspecies *inornata* is not valid. The authors could not find any significant genetic or phenotypic difference between the Maghreb (*inornata*) and the northwestern Mediterranean (*iberiae*) birds. So the species seems to be monotypic and the name *iberiae* should be retained because the study of the type specimens used to describe *inornata* shows that they were not local breeders but migrating Moltoni's Warbler *C. subalpina*]

3. Sélection de travaux relatifs à d'autres pays, en lien avec l'avifaune marocaine

Aarvak, T., Timonen, S., Gjerstad, D., Väisänen, R. & Pasanen, E. 2019. *Light-logger mapping of migratory connectivity of Dotterels breeding in alpine Fennoscandia.* Presented at International Wader Study Group conference, Morecambe, UK, September 2019.

Adamou, N. 2021. Première observation du Bruant nain *Emberiza pusilla* en Algérie. *Alauda* 89 (1) : 75.

Ailam, O. & Boulaouad, B.A. 2020. Faucon crécerelle *Falco tinnunculus* nichant sous un nid de Cigogne blanche *Ciconia ciconia* en Algérie. *Alauda* 88 (3) : 233-234.

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[Etude menée dans l'oasis de Gabès (Tunisie)]
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