

IWC Meeting Saturday, 9 April 2022 Lucerne - Switzerland

MEDITERRANEAN WATERBIRDS **NETWORK (MWN)**



Mediterranean Waterbirds Oiseaux d'eau Méditerranée الطيور الوالية بونطقة البدر اوتوسط



MINISTÈRE DE LA TRANSITION ÉCOLOGIQUE AFD AGENCE FRANÇAISE zaliki



FONDS FRANÇAIS POUR L'ENVIRONNEMENT MONDIAL

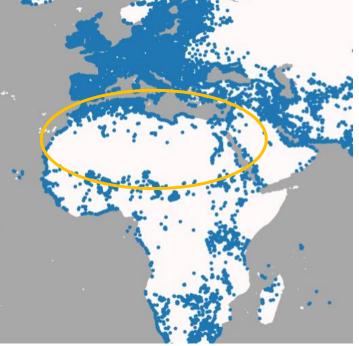
IWC context

2012: African data on waterbirds census were not regular enough

How can we rightly estimate the status of waterbirds populations (status, size and trends) and the international importance of wetlands ?







Medwaterbirds Network

2012-2017 : The AEWA Plan of Action for Africa, 5 Objectives:

- 1. Conservation measures (legislation , key sites id[°]...)
- 2. Sustainable use of waterbirds (legislation, illegal killing ...)
- 3. Improve knowledge: IWC data quality and quantity
- 4. Improve communication, education
- 5. Improve capacity for international cooperation (trainings in international wildlife training center...).
- **2012** : Medwaterbirds Network:
 - ✓ Supported by France
 - ✓5 North African countries, OFB and Tour du Valat.







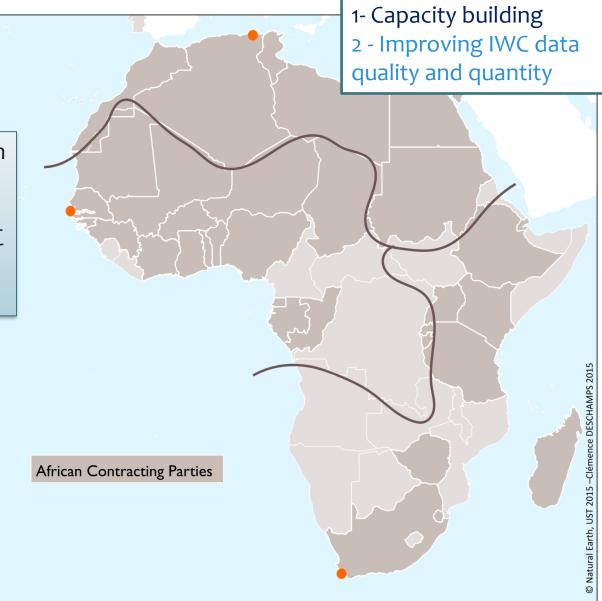




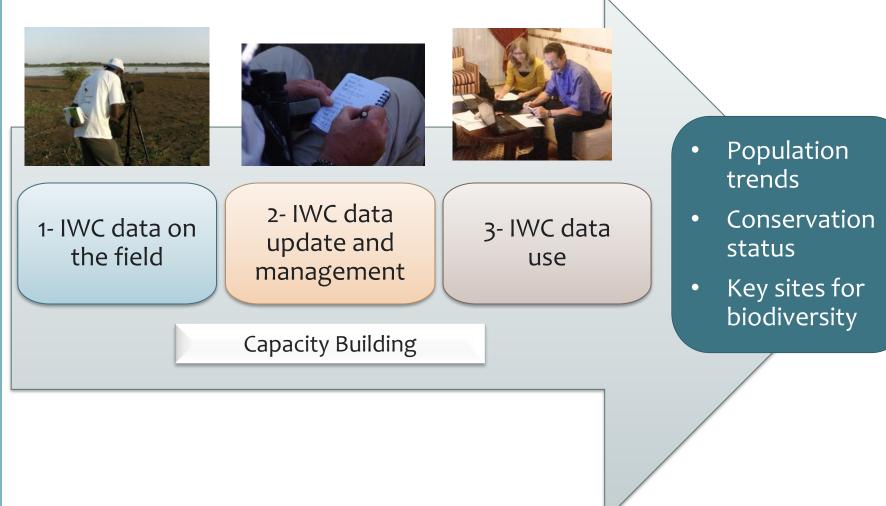


Medwaterbirds Network

2013 : MEETING with AEWA Focal Points and National Coordinators of IWC to list activities and priorities



Medwaterbirds Network





I- Capacity building in IWC data collection in the field

Capacity building in IWC data collection



Improving capacity building in the field through:

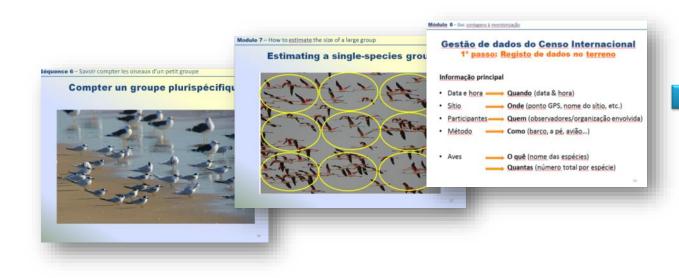
- International and annual training sessions,
- Optical equipment donation,
- Financial contribution to IWC,
- Contribution to TOTAL COUNTS since 2014.



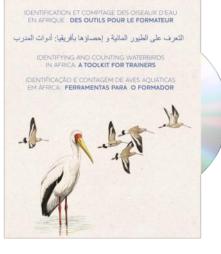


Capacity building in IWC data collection

- A "Training the trainers" module on CD
- For North African & Sub-Saharans species,
- 4 languages : Arabic, English, French & Portuguese,
- 8 training modules : from the field on Waterbird identification to the data input.



The 1st modern ornithological guide in Arabic language
 New Edition: December 2021 (AFD-FFEM support)



www.medwaterbirds.net





Maintaining data quality during the whole process (from field \rightarrow international database) is essential

Medwaterbirds website :

- To manage different data,
- To share tutorials and documents,
- To share data with partners (eg. the Mediterranean IWC data).



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Chroicocephalus ridibundus	30/01/2018	Bab al Bahr coast [Libya]	Ali Berbash	62	-	20/04/2018 23:12	୍
Common Teal Anas crecca	30/01/2018	Al Mallahah [Libya]	Ali Berbash	6	-	20/04/2018 23:12	•
Marbled Teal Marmaronetta angustirostris	30/01/2018	Al Mallahah (Libya)	Ali Berbash	з	-	20/04/2018 23:12	•
Northern Shoveler Anas clypeata	30/01/2018	Al Mallahah [Libya]	Ali Berbash	64	-	20/04/2018 23:12	
Black-headed Gull Chroicocephalus ridibundus	30/01/2018	Al Mallahah (Libya)	Ali Berbash	11	-	20/04/2018 23:12	•
Great Cormorant Phalacrocorax carbo	30/01/2018	Al Mallahah [Libya]	Ali Berbash	34		20/04/2018 23:12	Θ,
Northern Pintail	30/01/2018	Al Mallahah (Libya)	Ali Berbash	44	-	20/04/2018 23:12	
Anas acuta Common Shelduck	30/01/2018	Al Mallahah [Libya]	Ali Berbash	5	-	20/04/2018 23:12	۹
Tadorna tadorna Black-winged Stilt	30/01/2018	Al Mallahah [Libya]	Ali Berbash	40		20/04/2018 23:12	
Himantopus himantopus Greater Flamingo					-		
Phoenicopterus roseus Slender-billed Gull	30/01/2018	Al Mallahah [Libya]	Ali Berbash	81	-	20/04/2018 23:12	•
Chroicocephalus ganei Little Egret	30/01/2018	Al Mallahah (Libya)	Ali Berbash	137	-	20/04/2018 23:12	€,
Egretta garzetta	30/01/2018	Tripoli harbour [Libya]	Ali Berbash	2	-	20/04/2018 23:12	୍
Sandwich Tern Thalasseus sandvicensis	30/01/2018	Tripoli harbour [Libya]	Ali Berbash	9	-	20/04/2018 23:12	€,
Slender-billed Gull Chroicocephalus genei	30/01/2018	Tripoli harbour [Libya]	Ali Berbash	24	-	20/04/2018 23:12	•
Lesser Black-backed Gull Larus fuscus	30/01/2018	Tripoli harbour [Libya]	Ali Berbash	68	-	20/04/2018 23:12	€,
Great Cormorant Phalacrocorax carbo	30/01/2018	Tripoli harbour [Libya]	Ali Berbash	56	-	20/04/2018 23:12	•
Great Crested Grebe Podiceps cristatus	30/01/2018	Tripoli harbour [Libya]	Ali Berbash	8	-	20/04/2018 23:12	
Black-necked Grebe Podiceps nigricollis	30/01/2018	Tripoli harbour [Libya]	Ali Berbash	30	-	20/04/2018 23:12	•
Black-headed Gull Chroicocephalus ridibundus	30/01/2018	Tripoli harbour [Libya]	Ali Berbash	65	-	20/04/2018 23:12	•
Great Grey Shrike Lanius excubitor	30/01/2018	Al-Naghaza Coast [Libya]	Khaled Et ayeb Rida Sherif	z		20/04/2018 23:12	
Eurasian Hoopoe Upupa epops	30/01/2018	Al-Naghaza Coast [Libya]	Najib Frooja Khaled Etayeb Rida Sherif	1	-	20/04/2018 23:12	0,
Spanish Sparrow Passer hispaniolensis	30/01/2018	Al-Naghaza Coast [Libya]	Najib Frooja Khaled Etayeb Rida Sherif	45	-	20/04/2018 23:12	0
Yellow-legged Gull Larus michahellis	30/01/2018	Al-Naghaza Coast [Libya]	Najib Frooja Khaled Etayeb Rida Sherif	1		20/04/2018 23:12	0
Sandwich Tern Thalasseus sandvicensis	30/01/2018	Al-Naghaza Coast [Libya]	Najib Frooja Khaled Etayeb Rida Sherif	2	-	20/04/2018 23:12	0,
Crested Lark			Najib Frooja Khaled Etayeb				
Galerida cristata	30/01/2018	Ain Ghnima (Falfool) [Libya]	Rida Sherif Najib Frooja Khaled Etayeb	4	-	20/04/2018 23:12	୍

www.medwaterbirds.net

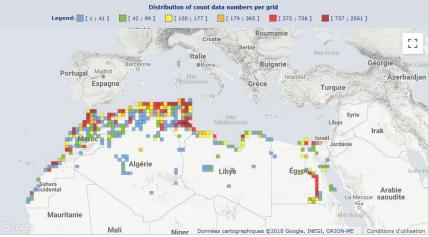
Mediterranean Waterbirds Forme Profile Forme Profile Species Stes Techniques Data Pata Import Manual addition Search Display all Export selection (86812) Synthesis Distribution of count data numbers per grid Legend: [1;41] [42;99] [100;177] Croatie Roumanie Serbie Mer Note

Outputs:

 number of observation per cell and per country

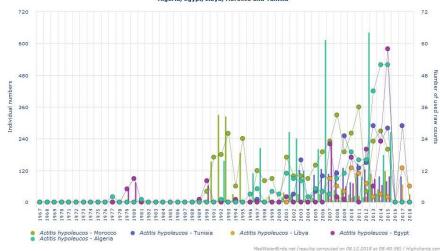
Synthetic graphs showing:

- number of counts for a selected species in selected countries,
- number of visited sites for these counts,
- list of field contributors for these visits.



Tutoria

Annual numbers of Actitis hypoleucos Algeria, Egypt, Libya, Morocco and Tunisi



Observer(s): Lilia ???, D.J. ABAD, Abdelaziz ABBASSI, Salem ABBASSI, Amr ABD ELHADY, Abdelkaser ABDELHADI, K. ABI, Mhemed ABOENA, AA ABOSSAUD KA ABULQADER, Messaoud ADHIMEN, A. AGHNAJ, Boualem AGOUNE, L. AISSANI, Brahim AKKOUCHE, AJ AL-JANEL, Abdelkader ALLALI, Imen ALLOUT, Mourad ANALOU, M. ANEZIAM, M. AMHEND, Mourin FOUISSI, NA AZABI, SA AZABI, Hichem AZAFZAF, S. AZAOUAGHE, Gaci AZIZ, Nader AZZABI, Sabia AZZABI, Saida AZZABI, Darradji BÁADACHE, Nicola BACCETTI, Tassaàdit BACHA, Larbi BADAOUI, Rezki BAGRA, M. BAHA, Fatha BAKARIA, Mokhtar BAKHTI, Abdel Ali BAKIT Shem BAKOUR, H. BANAN, Abdulmonzem BAOUR, Wageh BASHEMAN, H. BAYTAR, P.C. BAURRUN, Wassila Lilia BEDOUHEN, Habib BEKKAR, Amar BELÂMAN,

Improving capacity building :

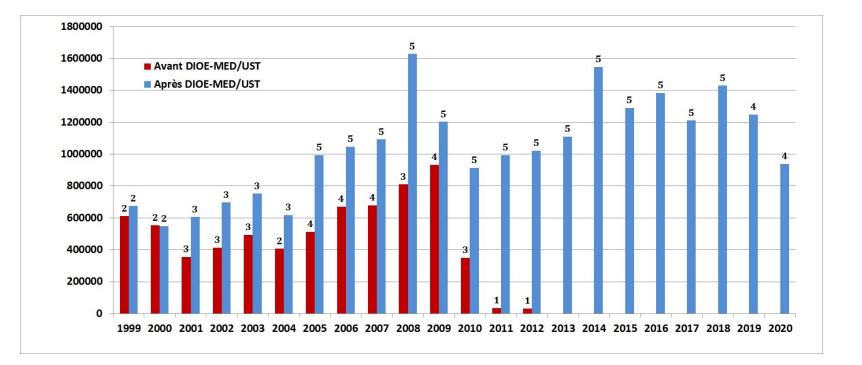
- 6 large-scale data update workshops,
- support to the North-African national coordinators on database update and on GIS,
- Improve relationships between North-African IWC coordinators and WI.
- Start scientific discussions with other Mediterranean Countries (3 workshops, 2 projects)

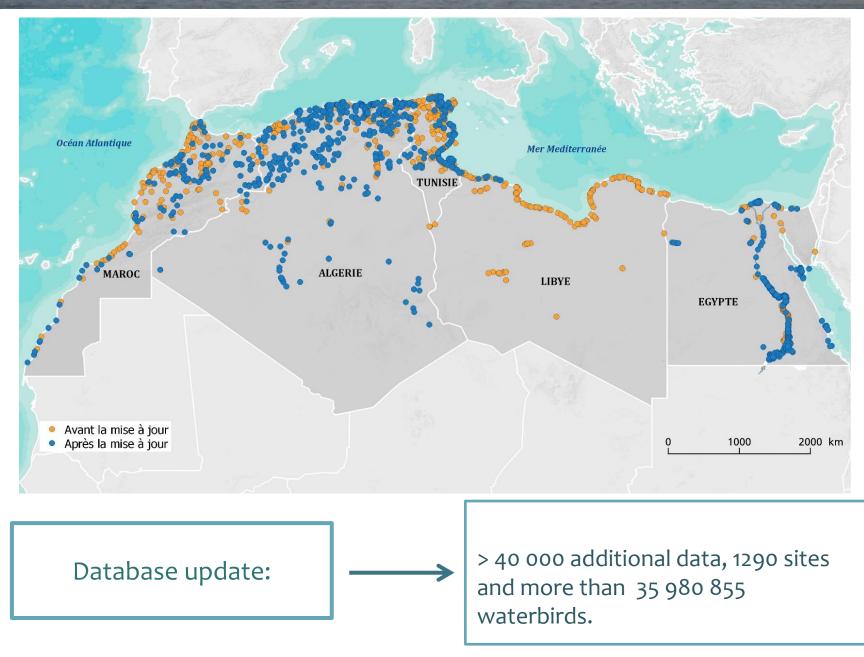






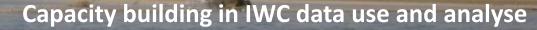
North African countries involved in the IWC and number of counted waterbirds







III-Capacity building in IWC data use and analyse





OFB

Contents lists available at ScienceDirect Biological Conservation

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



The first coordinated trans-North African mid-winter waterbird census: The contribution of the International Waterbird Census to the conservation of waterbirds and wetlands at a biogeographical level



Sayoud M.S.^a, Salhi H.^b, Chalabi B.^c, Allali A.^d, Dakki M.^e, Qninba A.^e, El Agbani M.A.^e, Azafzaf H.^f, Feltrup-Azafzaf C.^f, Dlensi H.^f, Hamouda N.^f, Abdel Latif Ibrahim W.^g, Asran H.^g, Abu Elnoor A.^g, Ibrahim H.^g, Etayeb K.^h, Bouras E.ⁱ, Bashaimam W.^j, Berbash A.ⁱ, Deschamps C.^k, Mondain-Monval J.Y.¹, Brochet A.L.^k, Véran S.^k, Defos du Rau P.^{1,*}

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^d Conservation des Forêts de la Wilaya de Naama, 45000, Algeria

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⁸ Egyptian Environmental Affairs Agency, 30 Misr/Helwan El Zyrae Raad, PO 11728, El Maadi Helwan, Egypt

^b Zoolo gy Dept, Tripoli University, PO Box: 13227, Tripoli, Libya
ⁱ Environment General Authority, Ganzor Alghenan, PO Box 13793, Tripoli, Libya

¹ Environment General Authority, Ganzor Algheian, PO¹ ¹ Lihvan Society for Birds PO, Rox 81417, Tripoli, Lihva

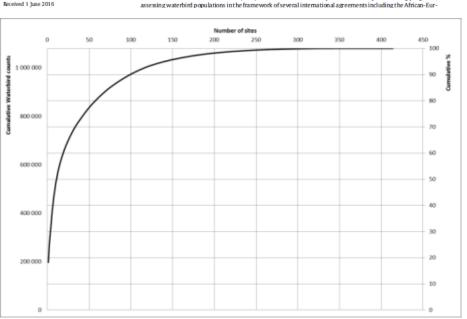
² Institut de Recherche de la Tour du Valat. Le Sambuc, 13200 Arles. France

msatut de Recherche de la Tour du Valat, Le Sambuc, 13200 Arles, Hance Office National de la Chasse et de la Faune Sauvage, Unité Avifaune Migratrice, Le Sambuc, 13200 Arles, France

ARTICLE INFO ABST

ABSTRACT

Article history: Received 1 June 2016



The International Waterbird Census (IWC) is one of the most widespread biodiversity monitoring programs

- <u>Synchronized censuses bring</u> added value!
- IWC design can be optimized for North African countries
- The network of Ramsar sites is efficient but could be extended

Sayoud M.S. et al., 2017. Biological Conservation

 Received: 24 July 2020
 Accepted: 29 December 2020

 DOI: 10.1111/2041-210X.13594

RESEARCH ARTICLE

Imputation of incomplete large-scale monitoring count data via penalized estimation

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Hosni H. Asran ⁶ Amr A. Elhady ⁶ Haitham Ibrahim ⁶ Khaled Etayeb ^{7,9}
Essam Bouras ^{8,9} Almokhtar Saied ^{8,9} Ashrof Glidan ^{8,9} Bakar M. Habib ¹⁰
Mohamed S. Sayoud ¹¹ Nadjiba Bendjedda ¹² Laura Dami ³ Clemence Deschamps ³
Elie Gaget ^{3,13} 💿 Jean-Yves Mondain-Monval ¹⁴ Pierre Defos du Rau ¹⁴ 💿

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Funding information

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Abstract

 In biodiversity monitoring, large datasets are becoming more and more widely available and are increasingly used globally to estimate species trends and conservation status. These large-scale datasets challenge existing statistical analysis methods, many of which are not adapted to their size, incompleteness and heterogeneity. The development of scalable methods to impute missing data in incomplete large-scale monitoring datasets is crucial to balance sampling in time

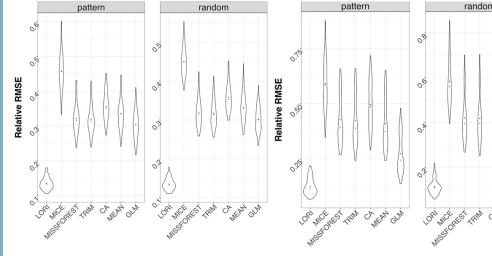
fethods in Ecology and Evolution

- LORI has the capacity to integrate many environmental covariates, as well as time × space interactions
- LORI can potentially indicate different trends compared to those inferred from existing methods,
- The use of several covariates may account for most of the autocorrelation that could otherwise penalize subsequent modelling [1,2]

FROM: Dakki M et al, Imputation of incomplete largescale monitoring count data via penalized estimation. *Methods Ecol Evol*. 2021;00:1– 9. PRESENTED by F. DEFOS DU RAU, 5 April 2022 – EBCC2022

[1]Bardos, D. C et al.(2015). Methods in Ecology and Evolution 6(10), 1137–1149.

[2] Wintle, B. A. et al. (2006). Ecological Applications, 16(5), 1945–1958.



Capacity building in IWC data use and analyse

Biodiversity and Conservation https://doi.org/10.1007/s10531-021-02236-1

ORIGINAL PAPER

Check for updates

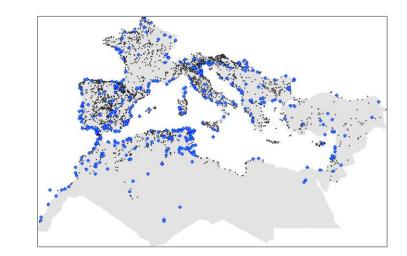
Gap analysis of the Ramsar site network at 50: over 150 important Mediterranean sites for wintering waterbirds omitted

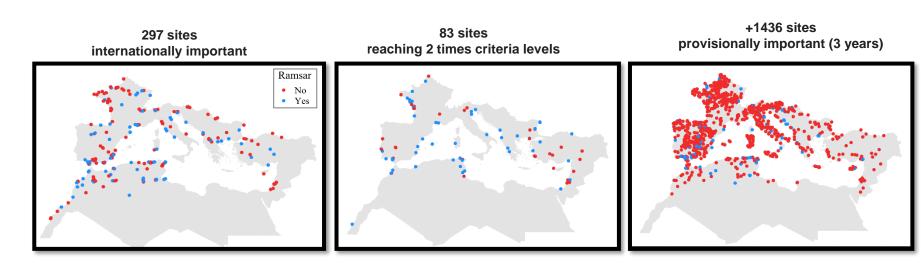
Nadège Popoff, et al. [full author details at the end of the article]

Received: 4 October 2020 / Revised: 20 April 2021 / Accepted: 28 June 2021 © The Author(s), under exclusive licence to Springer Nature B.V. 2021

Abstract

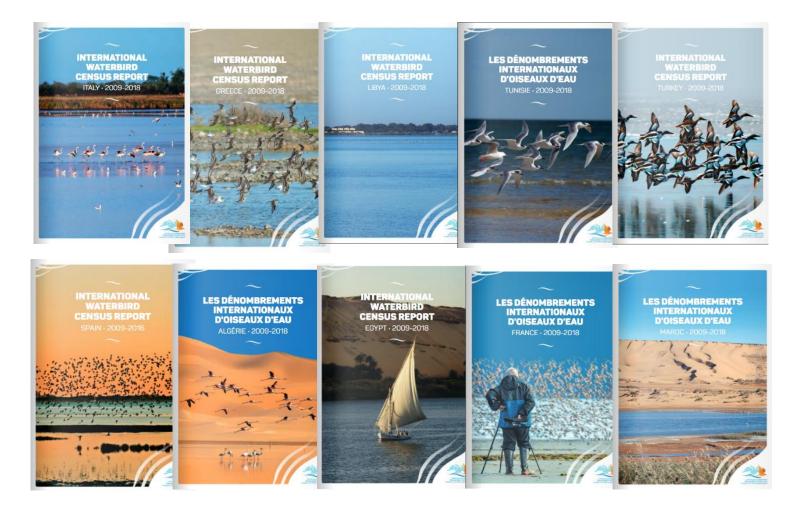
The Mediterranean Basin is a biodiversity hotspot. Wetlands make a key contribution to this status, but many of them remain outside the Ramsar network fifty years after the estab-





From Popoff et al. Gap analysis of the Ramsar site network at 50: over 150 important Mediterranean sites for wintering waterbirds omitted. Biodivers Conserv 30, 3067–3085 (2021). – PRESENTED by F. VERNIEST, 8 April 2022 – EBCC2022

Capacity building in IWC data use and analyse



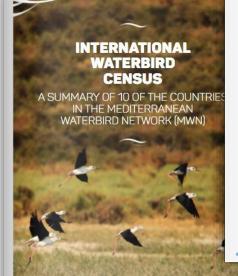
Technical reports on the IWC status in 10 countries of the Mediterranean

OFB

www.medwaterbirds.net

and the second second second





M WATERBIRD POPULATIONS* IN THE MEDITERRANEAN

a ten coentries in this report are concerned with at least 324 waterbird populations. Of these populations are declining, some are presumed extinct, while only BS are increasing (significantly or slightly), and 7 stable. The remaining 43 populations are fluctuating or undetermined due to lack of the regular or effective into needed to determine their actual trends.

in the 10 countries o	table of Analidae popul d this report, as records W Tool 2.0 http://wowcw	d on the Criti etlandcorg/m/	whites of indivi-	hals which	defined as a distinct does not experience pation (definition of
lirends have been tak WPF; http://wpc.web	en from Waterhind Popula lands.orgl		ands Internation	at 2002)	
which occur in at lea each of which may so	hibit contrasting trends,	Ansertformes in this report. Note that some and that each country may he If the other waterbird populati	rst more than or		
ORDER - FAMET Species - Scientific mane	Englishmen	Papalation name	Transla years	Secto	Countries involved in the report and induceday by the psychology
ANSERFORMES - ANAL	UNE	and the second second second			
Ozysez Inacocephala	White-beaded Dack	West Mediterraneae Cquain & Maraccoli	2000-2012	0	Morazzo, Spale, France
Orpus Incorphala	White-beaded Dack	Cost Mediterranean, Tarley & South-west Asia	2006-2015	0	Greece, Tarlory, Tgypt
Organa Inacomphaila	White-beaded Duck	Argenta & Tarata	2006-2015	0	Algoria, Taninias
Grean olar	Mute Supe	North-word Maintand	2000-2015	00	Scales, France, Bally

Oryusz Aurorephala	White-beaded Duck	& South-word Asia	2006-2015	0	Geneca, Tarlorg, Tgapi
Oryuna Inucacryphala	White-beaded Duck	Argenta & Tanània	2006-2015	0	Algoria, Taminia
Ggroun aller	Mute Same	North-west Maintani & Central Carope	2000-2015	00	Sparies, Feature, Italy
Ogenet eller	Mute Swon	Black See	2550-2015	0	Raly, Genece, Tarkey
Ggas ogas	Wheeper Swan	N Dampe A.W. Sherin/Glark Sea A.C.Mediterranean	2006-2015	0	Italy, Greece, Tarkey
Oppose cyprus	Whenper Same	West & Control Schorie/Coopien	2006-2015	0	Tarkey
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Ogens oppos	Missiper Swatt	B Dampe A W Sherin/Black Sen A C Mediterration	3006-3015	0	FEARCH
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Ogenes columbianus	Tundra Saran	breakliki, Northern Siberta/Campian	2506-2015	0	General Tatlary
Branie bernütle	Brent Game	Bernicia, Western Silaria/ Western Camps	3002-3011	0	France
Dramie Inscriptik	Barnarde Gases	Renia/Germany & Metherlands	2000-2016	0	France
Anner anner	Graying Goons	anner, NW Europe/ Scults-weed Europe	2003-2012	0	Algeria, Marocca, Spain, France
toser anner	Graying Goose	anner, Central Damps/North Mrica	3007-3017	0	Taninia, Ngwia, Baly
Koser anner	Graying Genera	radefeorately, Illack See & Tarkey	2000-2012	0	Taskey
Acourt Jostulia	Basan Gasana	romicus, West & Control Silveta/ RE & SW Europe	1990-2013	0	Spain, France, Italy, Genera
Acuar abdross	Greater White-trusted George	albitrare, NW Silveria & NE Carope/ Narth-west Carope	3003-3012	0	France
Anur abijum	Greater White-Instead Googe	ablicon, Western Sheria/ Black Search Tarkey	2003-2012	0	Tarkey, Geneca
Acuer albitross	Grouter White-Instead Googe	abilitions, Westwart Sharie/ Central Dargan	2003-2012	0	Taly.

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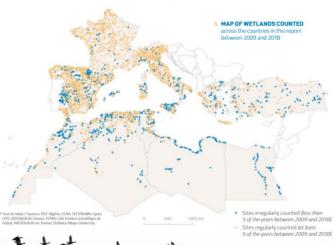
Spectra - Chanty Spectra - Scheelijk mener	English terms	Pagedalism teacor	Treads parts		Councilians investment in the request and involvemented by the proposition
ANSENFORMES - ANALYZAR					
Anny system	Launar White-Inanted Gaste	ME Dampe & W Sherka/Skark Sea & Campion	1999-2013	0	Torkey
Clangule hymeralic	Long-tailed Dack	Western Scheric/North Campe (ber)	1995-2010	0	Trance, Baly
Clasgole tynnolic	Long-tailed Duck	izedanut & Grewmand (breij	2000-3012	(Deleteret	France
Sematorie molificaires	Common Cider	moliosima, Dallic, Denmark A.Netherlands	2006-2015	0	France, Spain
Melanitizjana	Voluet Scater	Western Sheria & Northern Europe/ NWEurope	1962-3009	0	Spain, France, Baly
Mirlasitta (Losca	Volunt Scotor	Black Sex & Campion	2006-2015	0	Turkey
Melantin ager	Common Scator	W Sheria & N Earspe/W Earspe & NW Africa	2000-2015	00	Monoco, Spain, France, Ba
Decembric chargeds	Common Soldeneye	ctorgola, North-west & Central Europe (winj	2006-3015	00	Foatca, Italy
Bucepholo clungulo	Common Goldanaya	clargels, North-east Carope/Aduatic	2000-3012	00	Italy, Genece
Buerphole changula	Common Soldanarya	chorgole, Wettern Siberia & North-east Coope/Allack See	2006-2015	0	Genece, Tarkey
Megellas alteritas	Seema	North-west & Central Campo (with)	2006-2015	0	Foatce, Italy
Megelia abelia	Stew	North-nast Europe/Black Sea. A Cast Neddlerranean	2006-2015	0	Italy, Genera, Tarkey
Meganangunar	Gaenander	merganise, North-west A Central Carope (wint)	2006-2015	00	Force
Megacine gance	Gestander	merganiser, North-east Europe/ Ulark Sea	2880-2852	00	Tarking Genera
Margue storator	Hed-breasted Merganeer	North-sent & Central Campo (with	2006-3015	00	Morretz, Spain, Franze, Ital
Mergun servelor	And-breasted Marganeer	North-east Carope/Illack Sea A.Medikerceean	2006-2015	0	Genera, Tarkey
Alegeichen orgophilaca	Egyptian Goose	Eastern & Southern Mitca	2006-2015	0	Empt
Subout datives	Common Sheldark	North-west Camps	2006-2015	0	Spain, France, Baly
Reference factore	Common Shekkark	Black Son & Medil empresat	2006-2015	0	Spain, France, Italy, Greece Turkey, Cyypt, Libys, Turks Algeria, Morreco
Radarina (invisginera	Roddy Oreklack	Cast Mediterrarean & Illark Sea/ North-east Africa	2006-2015	0	Genera, Sadary, Cappi
Radarnar (wrsginna	Ruddy Shebback	North-west Africa	2006-3015	0	Spain, Morocco, Algeria, Tatinis
Mannessettia argatilestric	Machined Total	East Mediterreeas	2006-2015	0	Geneux, Barlery, Cypel
Mamoratetta argestiossys	Muchled Test	West Mediterranean/West Medit. & West Mrica	2006-2015	0	Spain, Morocco, Algeria, Tatitis
Retanglese	And-constad Pacharal	South-west & Central Compet West Medilemanway	2006-2015	0	Spain, Morocca, Algeria, Taninia
Britandes	Red-created Pactural	Thirty Son & Cast Mediterraneer	2006-2015	0	Greco, Salara Const.
Apilya Jerina	Common Pothand	North-west Europe/ North-west Europe	2006-2015	0	France
Apitipo finina	Common Fechand	Central & MC Campo / Black Son A Mediterrozean	2006-2015	0	Spain, France, Italy, Greek Turkey, Egypt, Libya, Tanisi Algeria, Maracco
Autora linita	Common Fechard	Western Shevia/South-west Asia	2006-2015	0	Egypt



Capacity building in IWC data use and analyse







A joint technical report on the IWC status in 10 countries of the Mediterranean

www.medwaterbirds.net

AFD-FFEM project which ensure activities in cooperation to the Mediterranean Alliance of wetlands

- Training sessions on different topics
- Collaboration and discussion with partners of the Alliance
- Different micro-projects (to implement knowledge on the field)
- Support to IWC activities (IWC in the field, training sessions, scholar module)







- Continue to support the capacity building of countries, including other countries to ensure a long-term commitment and involvement on IWC
- Strengthen scientific production (articles) for North-African countries and extend this kind of collaboration to other Mediterranean countries
- Support the involvement of North-African countries in International events/meetings
- Improve knowledge on population through crossed analyses with other networks/projects: RESSOURCE and EAF and WI
- Improve the collaborations with other Mediterranean countries
- Improve knowledge on illegal killing activities during IWC
- (improve knowledge on colonial breeding waterbirds)









Next steps



Méditerranéennes

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Thanks to everyone involved in IWC!

Thank you for your attention !





