

## Towards a Mediterranean Wetland Plant Red List Index

### Call for collaboration by Mediterranean botanists



**Antoine Gazaix, Patrick Grillas, Thomas Galewski and Richard Lansdown**



**MINISTÈRE  
DE LA TRANSITION  
ÉCOLOGIQUE**

*Liberté  
Égalité  
Fraternité*

27/10/2023  
*Valencia*



**PRINCE ALBERT II  
OF MONACO  
FOUNDATION**

# Introduction



35% loss globally since 1970

*Convention on Wetlands 2021*

Between **150,000–260,000** species  
extinct since AD 1500

*Cowie et al. 2022*

# Introduction



Natural Wetland Loss:

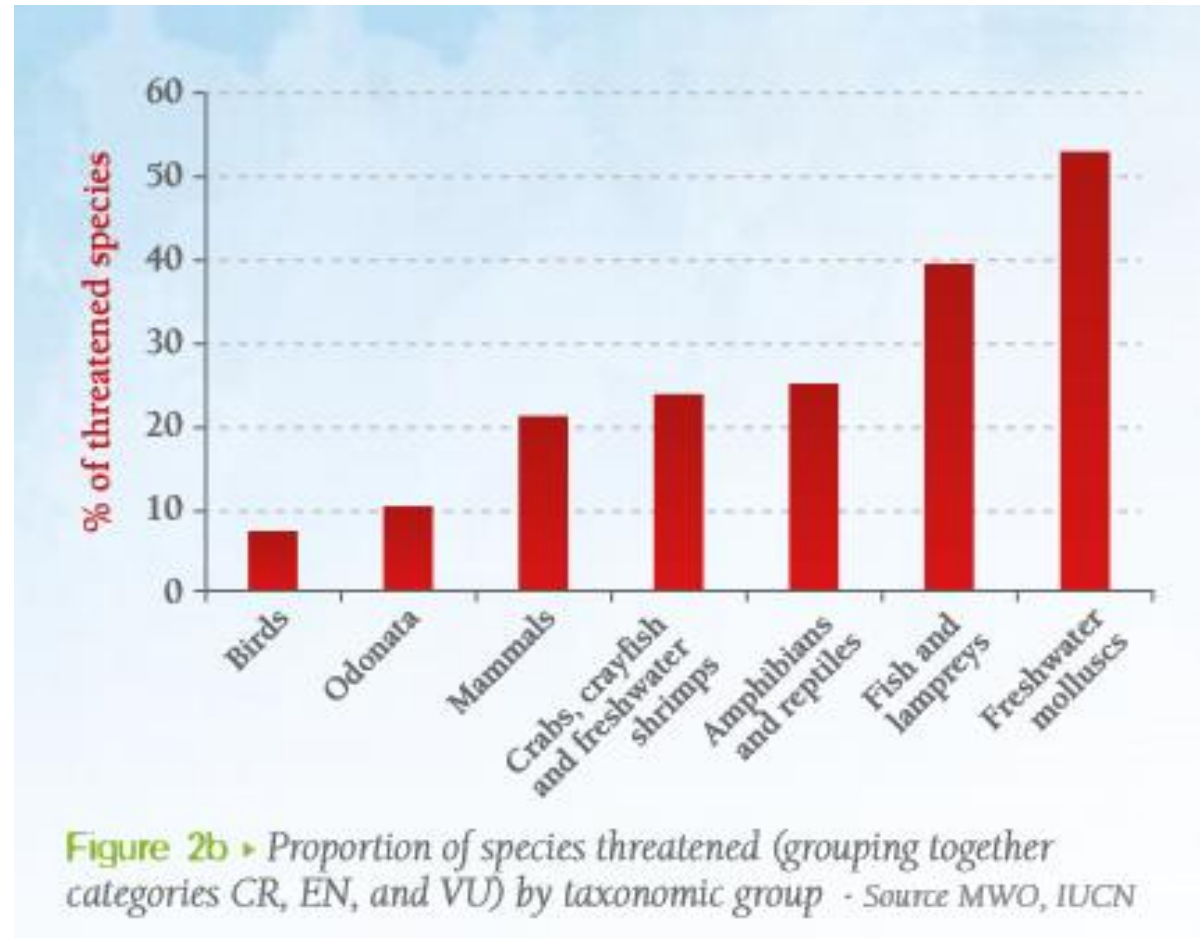
45-51% since 1970

*Mediterranean Wetlands Outlook 2, 2018*





# Introduction



*Mediterranean Wetlands Outlook 2, 2018*

No indicator on plants

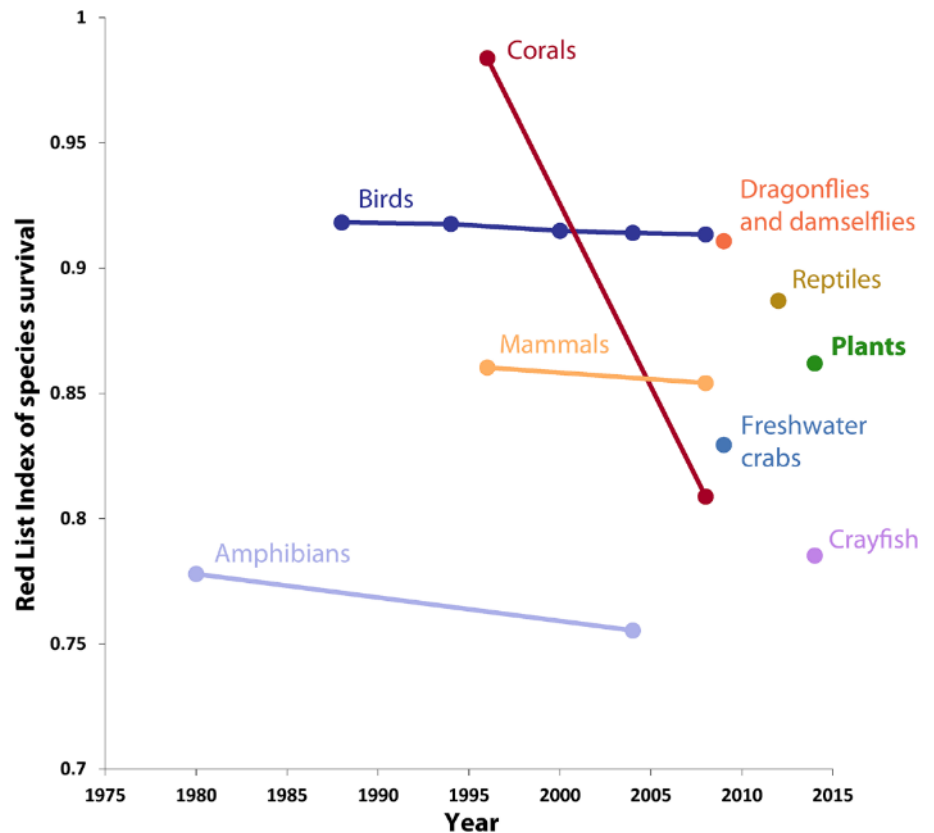
# Objectives



## Red List Index

List of species

IUCN  
Assessments



*Brummitt et al. 2015*

## Method

Mediterranean species

# Method

Mediterranean species



> 80% of its range lies within the Mediterranean region

Quezel 1985

# Method

Mediterranean species



Wetland species

**aquatic, hydrophytes, emergent, helophytes**



**The Status and Distribution of Freshwater Biodiversity in Northern Africa**

habitantes del agua  
**macrófitos**

**Autores**

Pablo García Murillo  
Rocío Fernández Zamudio  
Santos Cirujano Bracamonte

**Dibujos descriptivos**  
Marta Chirino Argenta

# European Red List of Vascular Plants



# Method

Mediterranean species



Wetland species

**aquatic, hydrophytes, emergent, helophytes**



**The Status and Distribution of Freshwater Biodiversity in Northern Africa**

habitantes del agua  
**macrófitos**

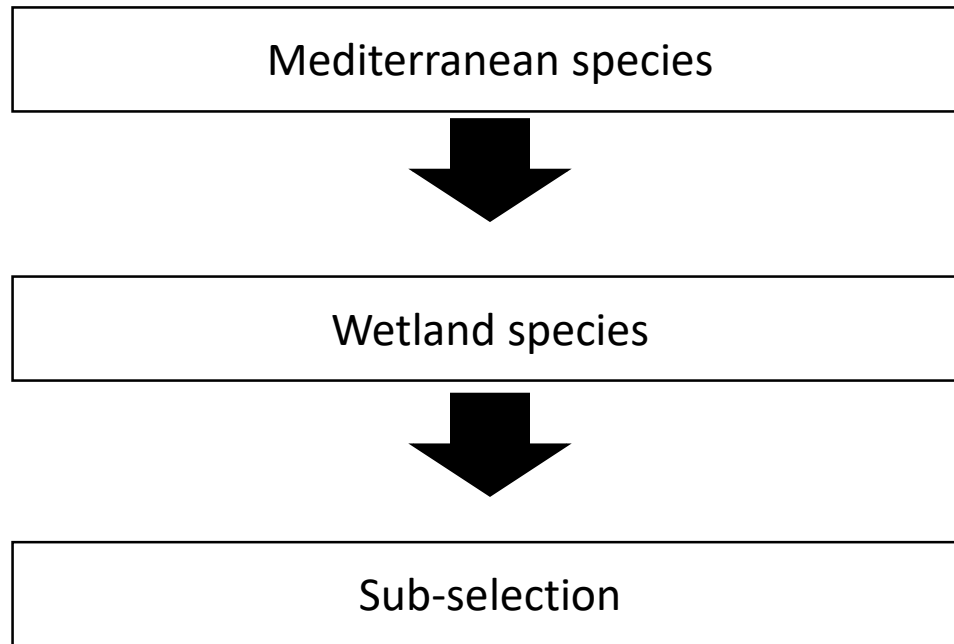
**919 taxons**

**Autores**  
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Santos Cirujano Bracamonte

**Dibujos descriptivos**  
Marta Chirino Argenta

**European Red List of Vascular Plants**

## Method



Endemic taxa

**358 taxa**

Assessment - Med. scale

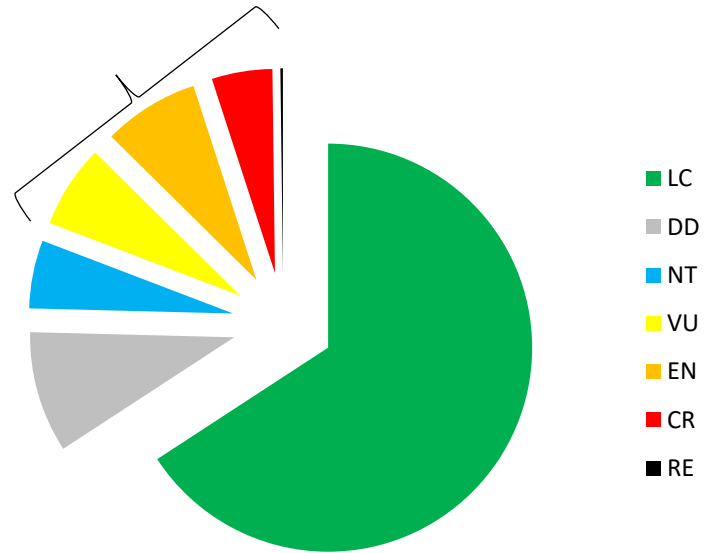
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wetland-dependent species >20% distribution in the Mediterranean  
published assessment between 2013-2017

**571 taxa**

# Results

**20 % of threatened species**

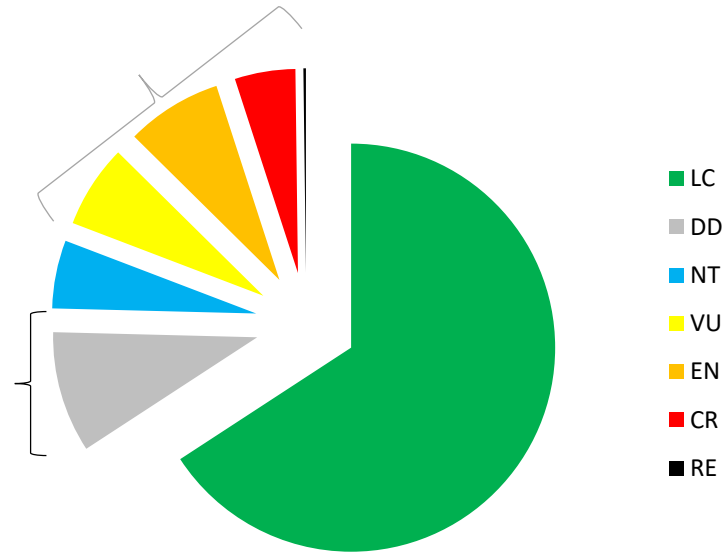


Mediterranean Red List status for  
571 wetland plant species.

# Results

20 % of threatened species



10 % of DD



Mediterranean Red List status for  
571 wetland plant species.

# Results

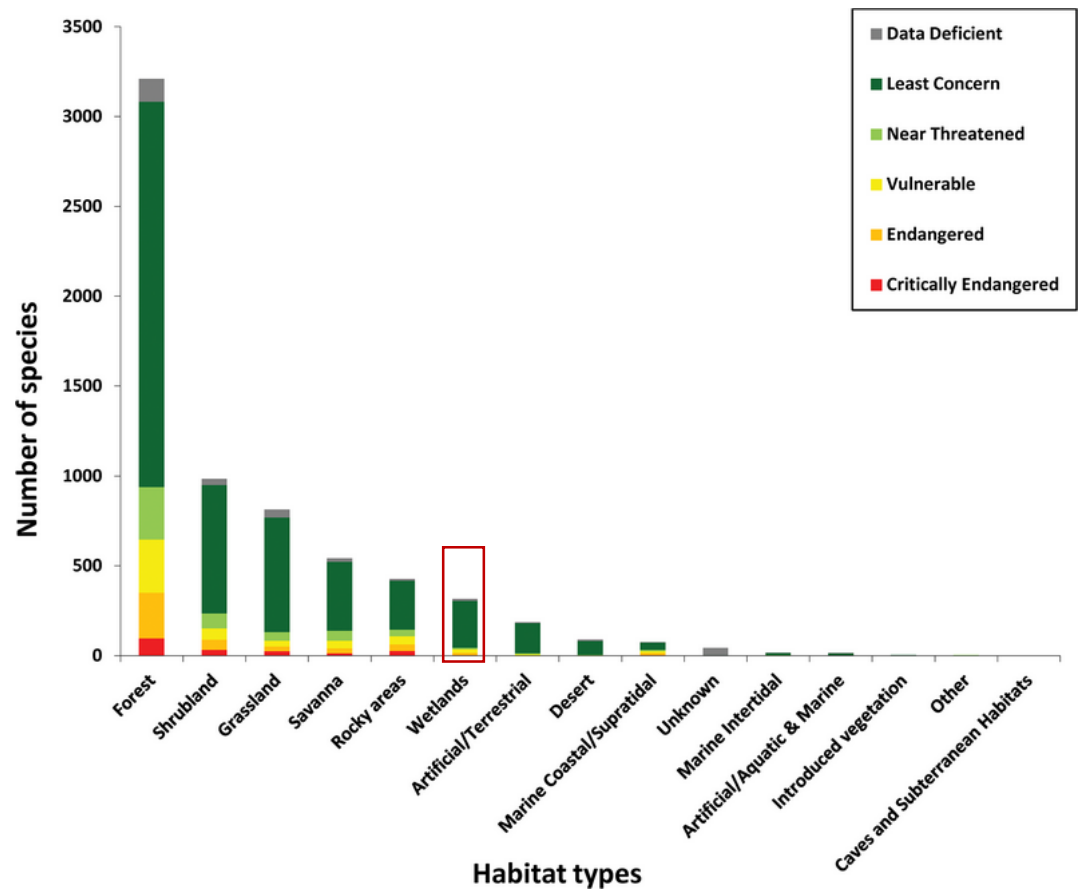
## Green Plants in the Red: A Baseline Global Assessment for the IUCN Sampled Red List Index for Plants

Neil A. Brummitt  Steven P. Bachman  Janine Griffiths-Lee, Maiko Lutz, Justin F. Moat, Aljos Farjon, John S. Donaldson, Craig Hilton-Taylor, Thomas R. Meagher, Sara Albuquerque, Elina Aletrari, A. Kei Andrews, Guy Atchison, [...], Eimear M. Nic Lughadha [ [view all](#) ]

Threatened species  
(20 %)

Endemic :  
(32%).

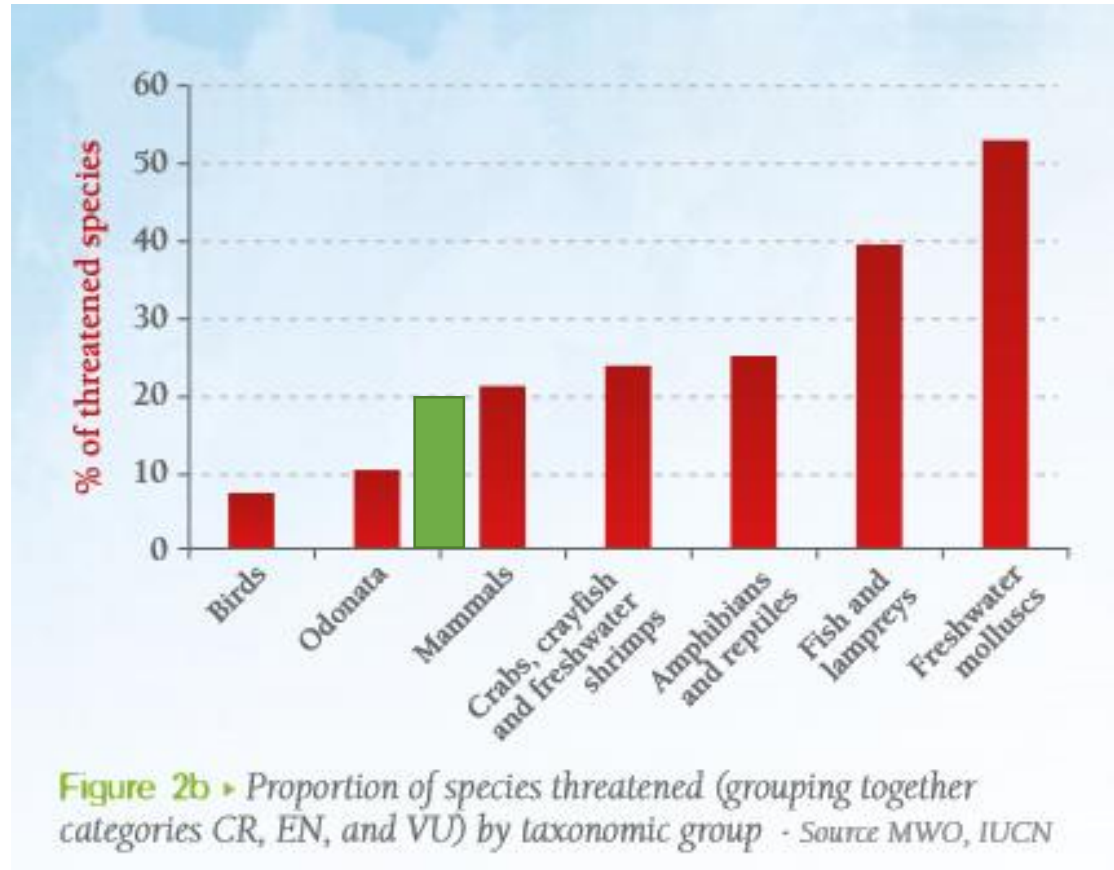
Pteridophytes  
(48%)





# Perspectives

*Building of a new indicator*



## Perspectives

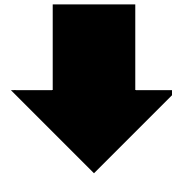
*IUCN Red List Assessment is a long process*

*500 species / collecting accurated information on local distribution*

## Perspectives

*IUCN Red List Assessment is a long process*

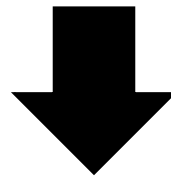
*500 species / collecting accurated information on local distribution*



**Call for collaboration by Mediterranean botanists**

*IUCN Red List Assessment is a long process*

*500 species / collecting accurated information on local distribution*







## Call for collaboration by Mediterranean botanists



*Perspective*

### **The IUCN Green Status of Species: A Call for Mediterranean Botanists to Contribute to This New Ambitious Effort**

Donatella Cogoni <sup>1</sup>, Molly K. Grace <sup>2</sup>, Barney Long <sup>3</sup>, Simone Orsenigo <sup>4</sup> and Giuseppe Fenu <sup>1,\*</sup>

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Delta du Gediz, Turquie © Hellio & Van Ingen



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**Thank you for your attention**