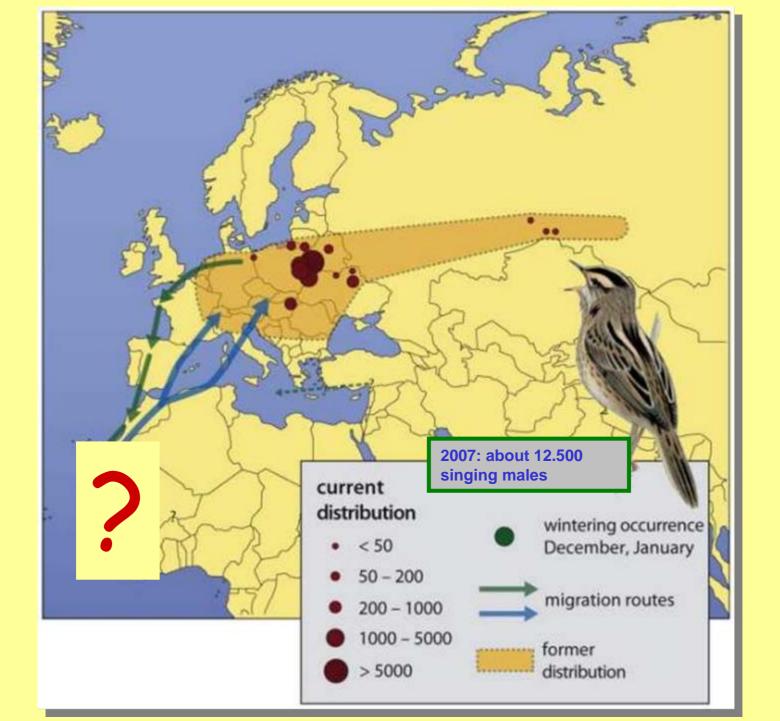
Wintering areas of the Aquatic Warbler Acrocephalus paludicola: assessment of recent discoveries and future prospects

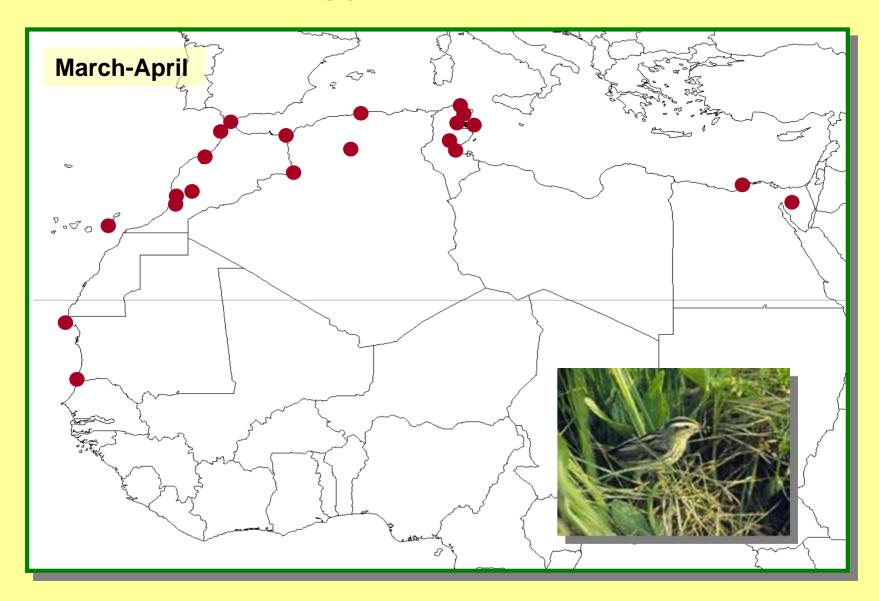


Lars Lachmann, Martin Flade, Ibrahima Diop & Volker Salewski, AWCT

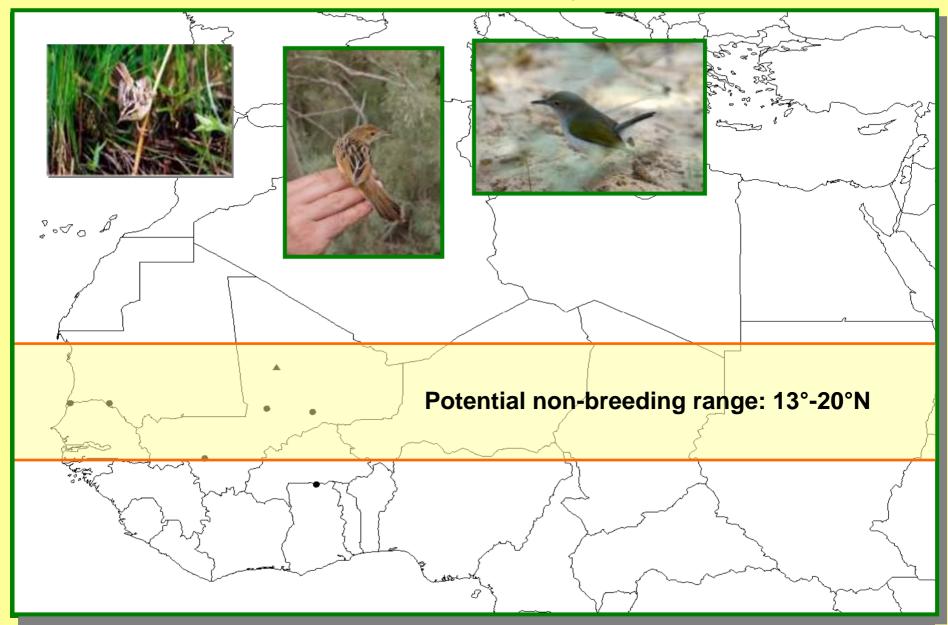




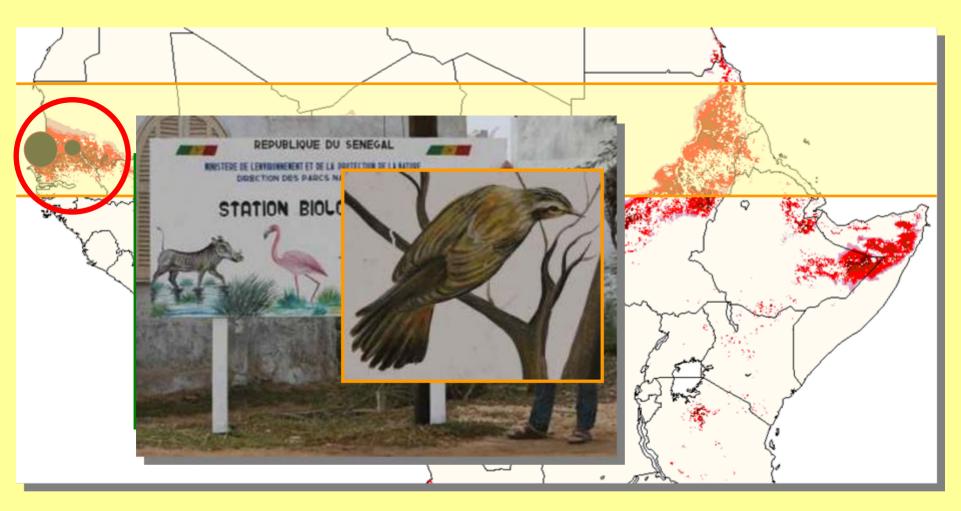
<u>Desk study 1:</u> Collecting records during the non-breeding period (Schäffer et al. 2006)



<u>Desk study 2:</u> $\delta^{13}C$ isotope analysis (Pain et al. 2004 and unpublished)



<u>Desk study 3:</u> BIOCLIM modelling of non-breeding distribution (see also Walther et al. 2007)



Djoudj Expedition January-February 2007: 39 participants from 12 countries from 2 continents



The Djoudj area





Vegetation map of Djoudj National Park (Schwöppe 1994)



Mistnetting in Typha: - no success



Mistnetting in deep water: - no success



Mistnetting at a lake shore: - no success



Mistnetting between *Tamarix*: - no success



Mistnetting in *Scirpus/Oryza/Sporobulus* marshes: - SUCCESS!





56 Aquatic Warblers mistnetted within two weeks



Fifty-six Aquatic Warblers mistnetted within two weeks

1 963 individual of 22 migrant species ringed in different habitats





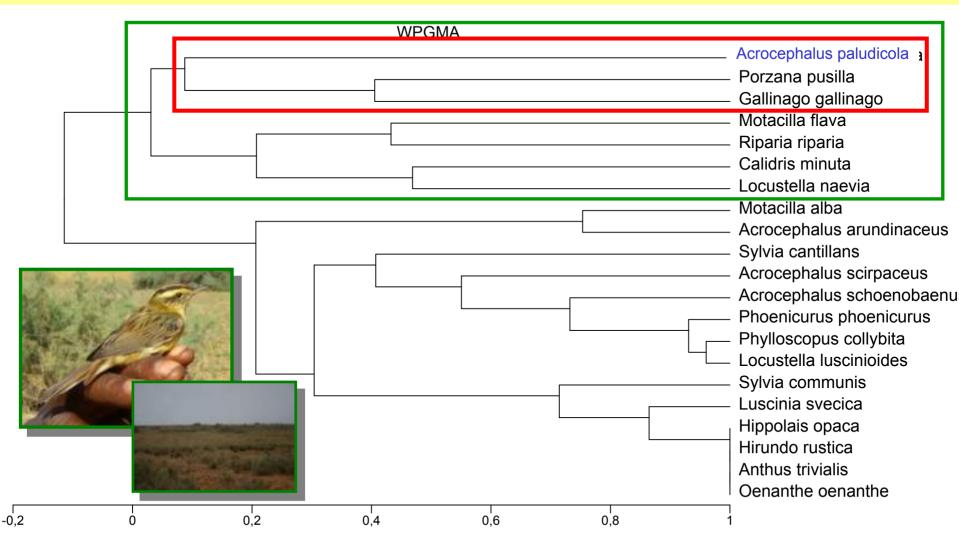








Cluster analysis of European bird species according to the occurrence at the trapping sites



Pearson Coefficient

Catching birds with claptraps



Porzana pusilla





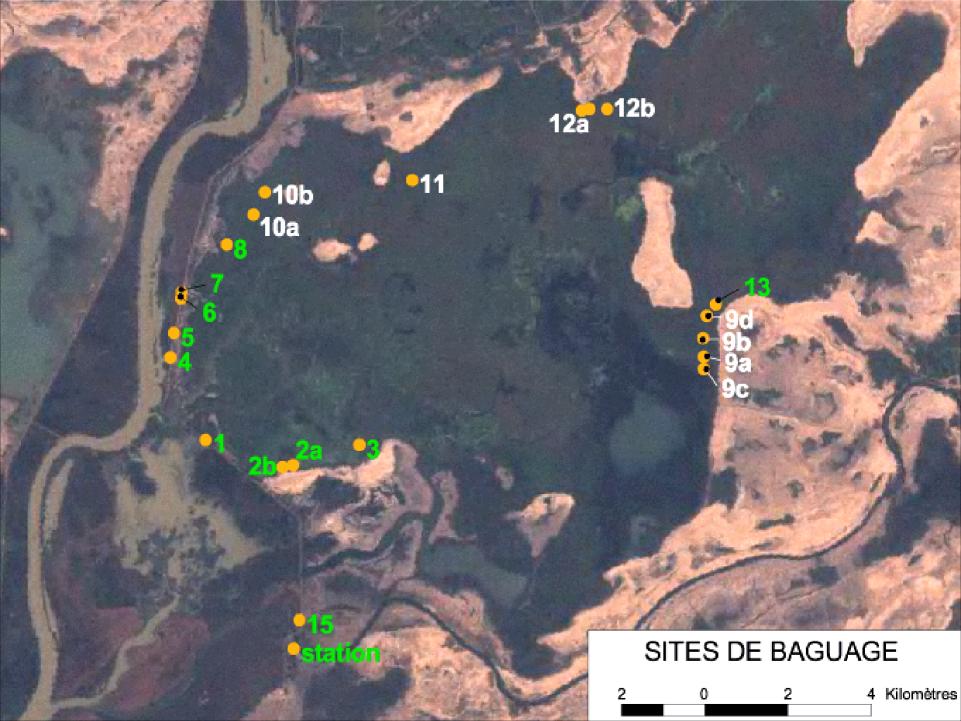
Sixteen captured

two former Senegalese records

... but no Aquatic Warbler

Rope method to catch Aquatic Warblers:







Estimation of total number of wintering Aquatic Warblers in Djoudj:



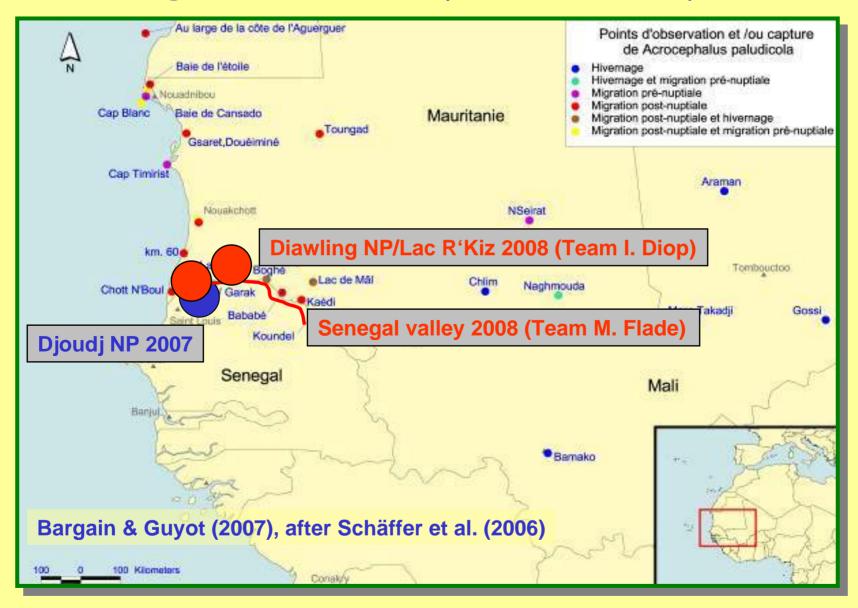
<u>Potential threats</u> for Aquatic Warbler habitats in the Djoudj area:



> Changes in landscape water budget

- > Changes in salinity (causing changes in vegetation structure and food supply)
- > Changes in water management
- > Changes in precipitation (climate change)

Known records of Aquatic Warbler in 2007 Senegal/Mauritania Expedition January 2008



Mauritania:

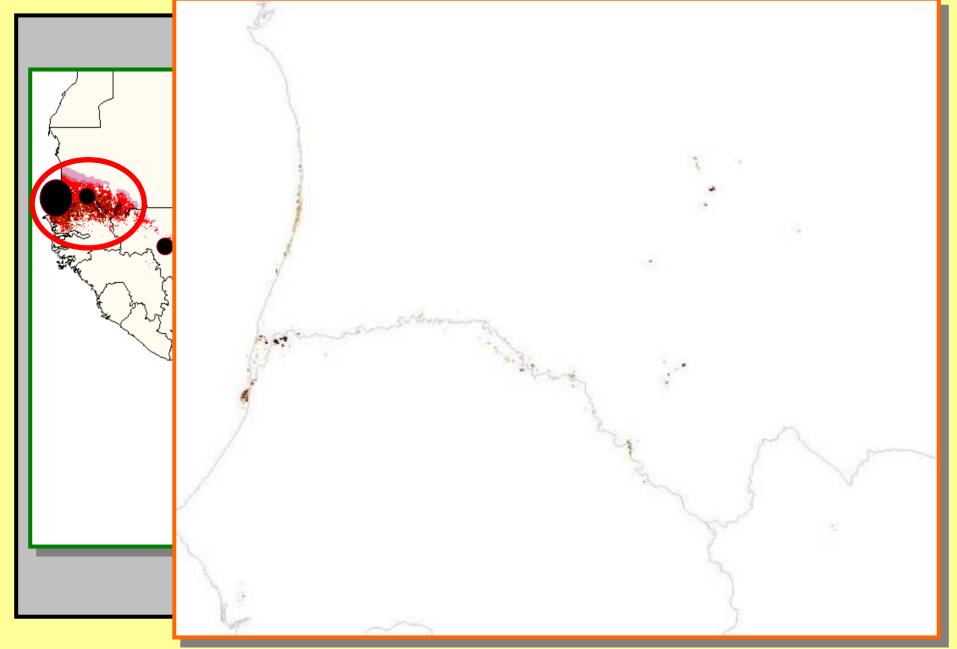


Senegal Valley:





New modelling of non-breeding distribution (data from January 2008, satellite image from 2007



Main threat in West Africa: habitat destruction



- Hydro-agriculture
- sugar cane
- Fresh water reservoirs
- Droughts, unsuitable water managment

Telemetry study to assess habitat use and requirements of Aquatic Warblers



What next: outlook

2008/2009:

- •further analysis of feather isotope ratios
- expert comments on search map from ornithologist working locally
- •Training workshop for leading local ornithologists from Senegal, Mali, Gambia and Mauritania
- more accurate number estimate for Djoudj
- continued study on habitat use in Djoudj
- checking of potential sites in Gambia and southern Senegal
 (Casamance)

2009/2010:

Another expedition checking potential sites

A model for successful inter-continental co-operation to protect a globally threatened migratory species

The Senegal 2007 Team

Thanks for support:Royal Society for the Protection of Birds (RSPB)Michael Otto Stiftung für UmweltschutzDeutsche Forschungsgemeinschaft (DFG)Deutsche Ornithologen-Gesellschaft (DO-G)Secretariat of the Bonn Convention (CMS)Naturschutzbund Deutschland (NABU)Deutsche Bundestiftung Umwelt (DBU)