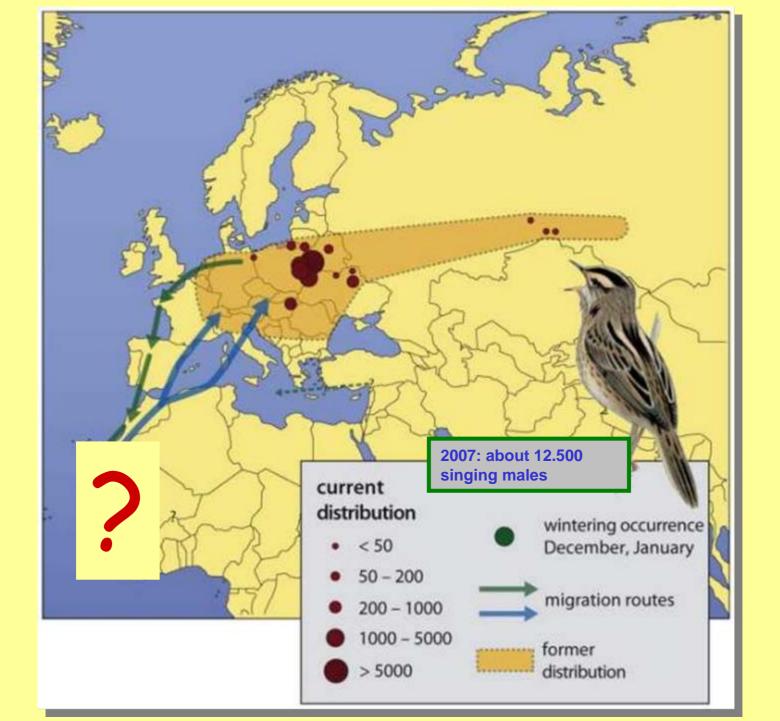
Wintering areas of the Aquatic Warbler Acrocephalus paludicola: assessment of recent discoveries and future prospects

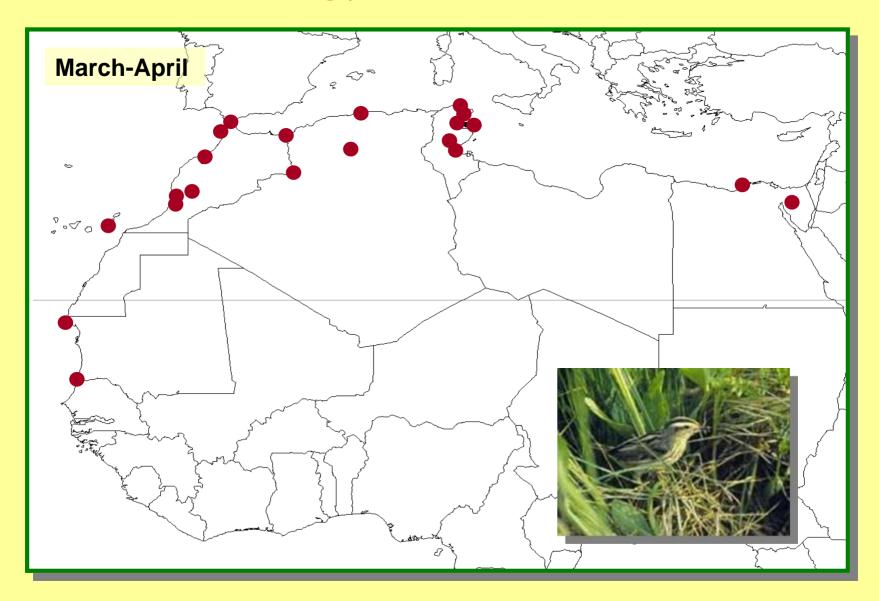


Lars Lachmann, Martin Flade, Ibrahima Diop & Volker Salewski, AWCT

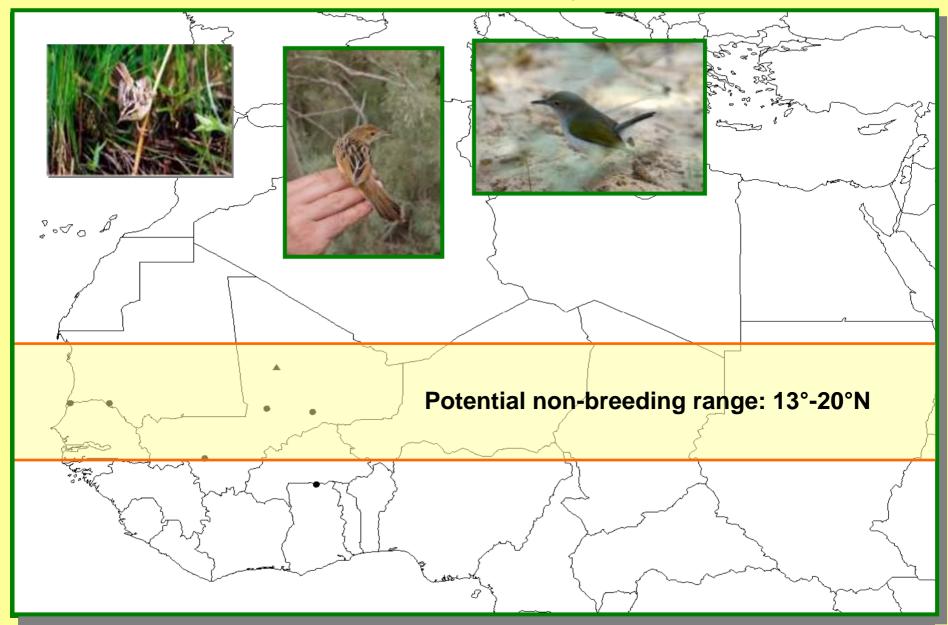




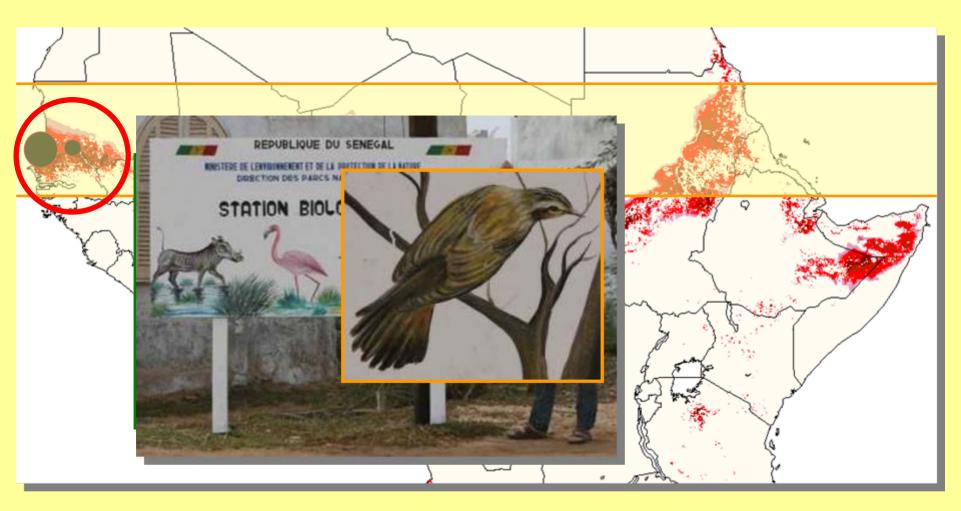
# <u>Desk study 1:</u> Collecting records during the non-breeding period (Schäffer et al. 2006)



#### <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 $\delta^{13}C$ isotope analysis (Pain et al. 2004 and unpublished)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



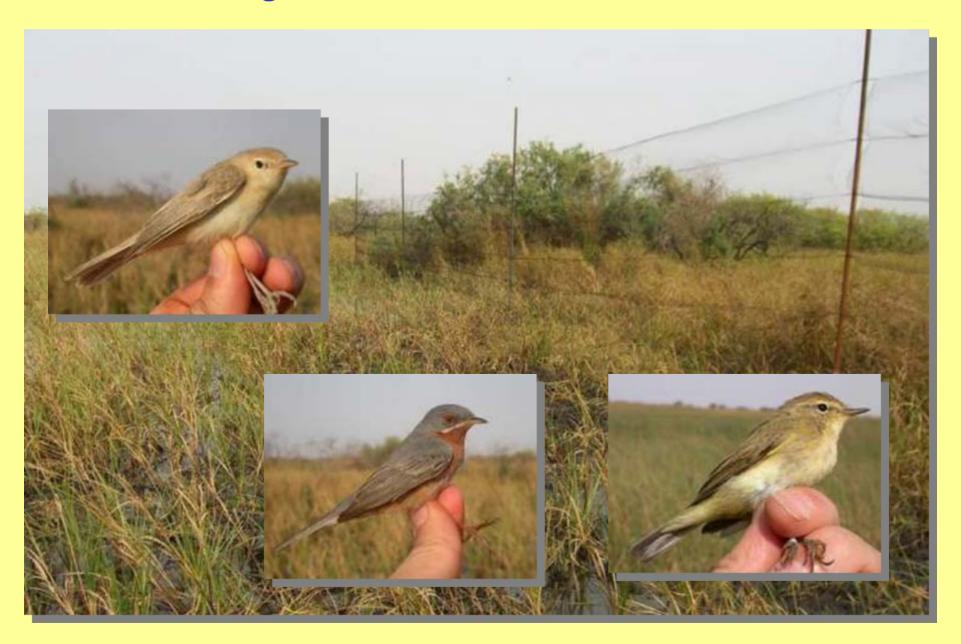
## Mistnetting in deep water: - no success



## 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





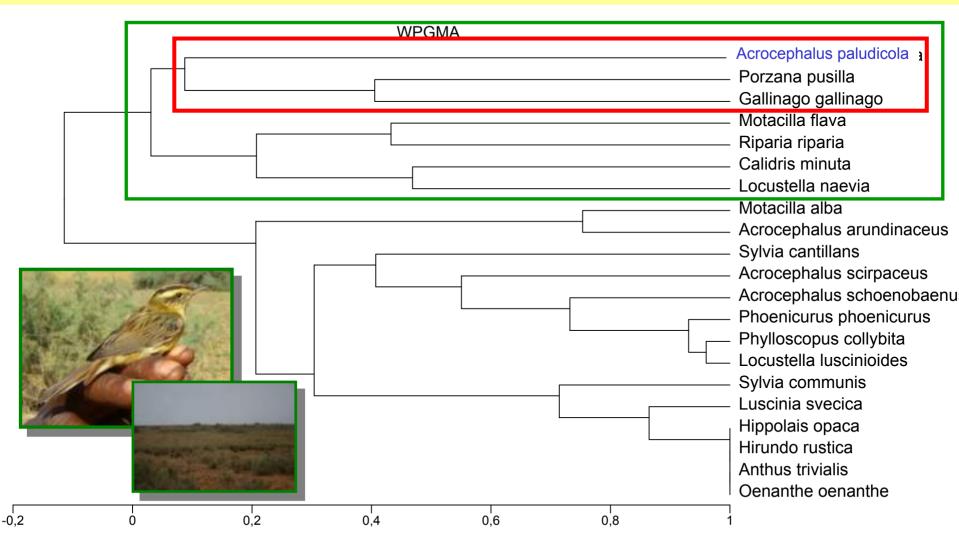








#### Cluster analysis of European bird species according to the occurrence at the trapping sites



Pearson Coefficient

#### Catching birds with claptraps



Porzana pusilla





Sixteen captured

two former Senegalese records

... but no Aquatic Warbler

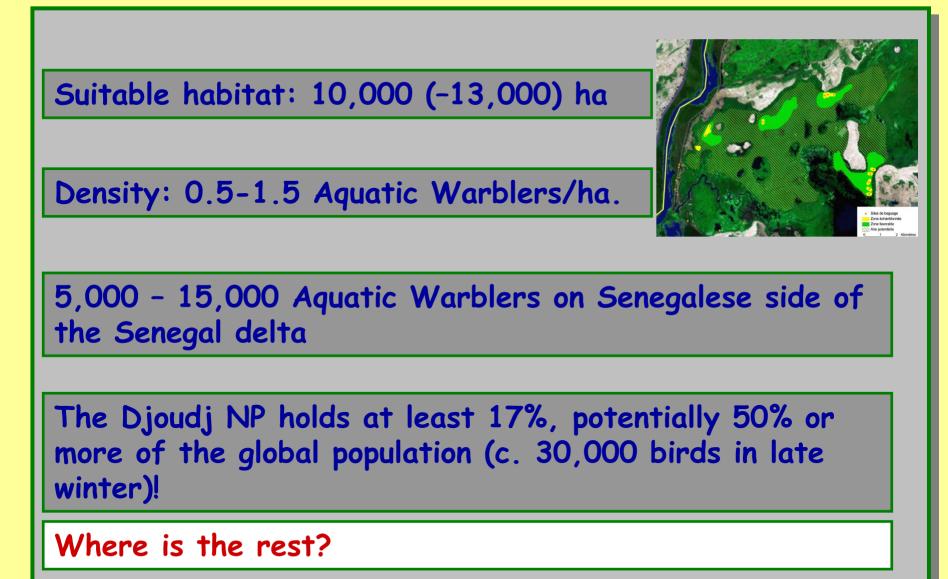
## Rope method to catch Aquatic Warblers:







#### Estimation of total number of wintering Aquatic Warblers in Djoudj:



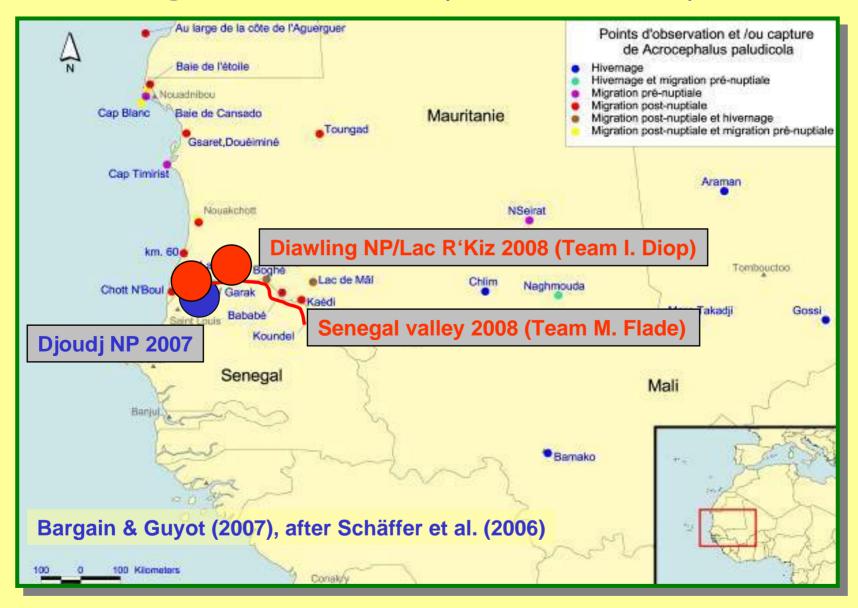
# <u>Potential threats</u> for Aquatic Warbler habitats in the Djoudj area:



#### > 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:

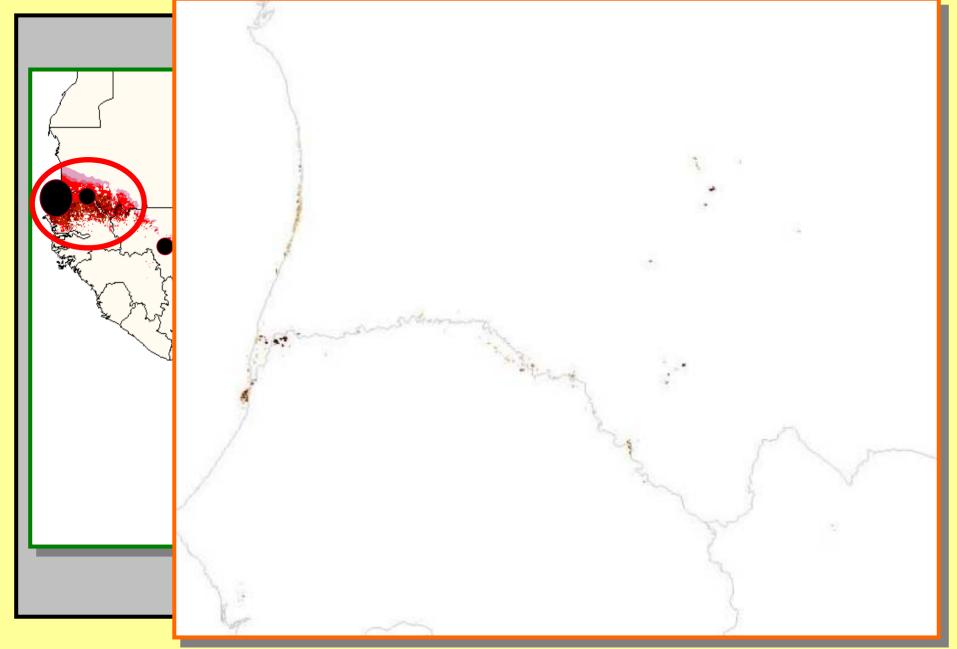


## Senegal Valley:





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)