

Martin Flade, Brodowin, Germany

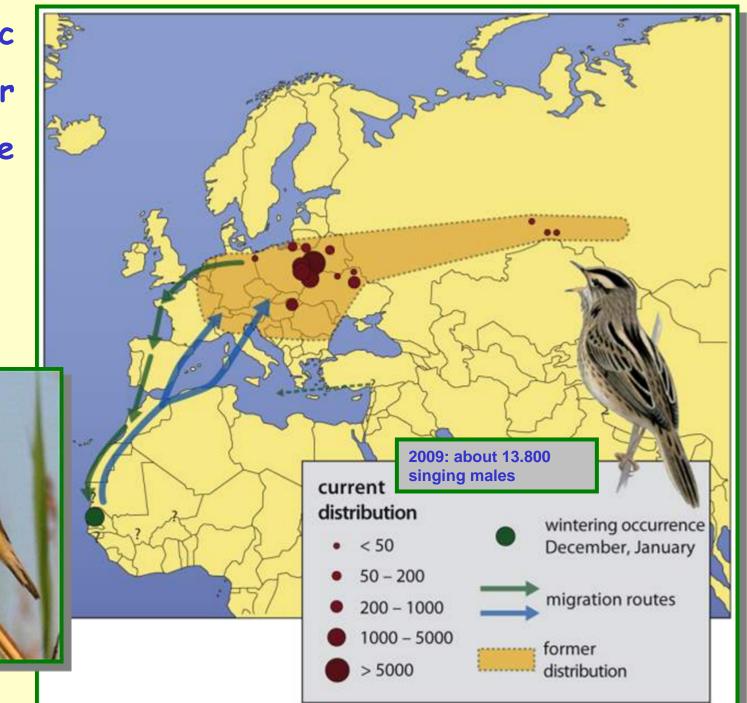
on behalf of the

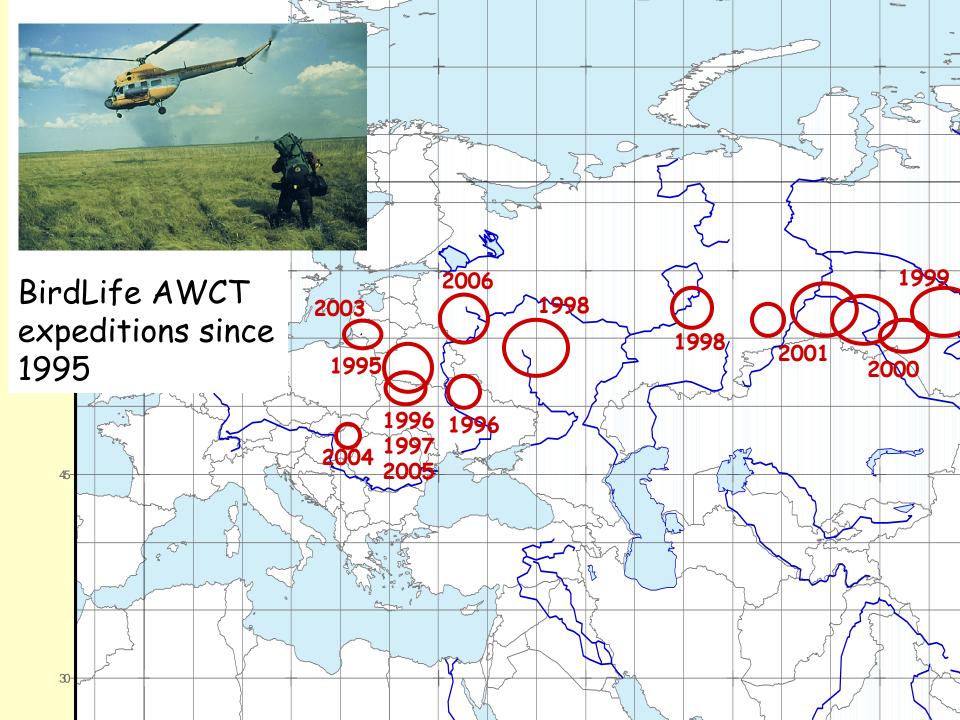
BirdLife International Aquatic Warbler Conservation Team

Main research activities of AWCT since 1995

- ✓ Search for remaining AW populations in Europe and West-Siberia
- ✓ Systematic survey of Eurasian fen mires and their threat status
- ✓ Studies on breeding habitat structure and diet
- √ Studies on breeding biology, breeding success, predation
- ✓ Studies on mating system and reproduction system
- ✓ Analysis of the genetic population structure at different scales
- ✓ Studies on stopover behaviour and migration strategy
- ✓ Analysis of stable isotopes in AW feathers to identify wintering areas
- ✓ Desk study on and modelling of the potential African wintering grounds
- ✓ Search for AW wintering sites in West Africa (Senegal, Mauritania)
- ✓ Study on habitat features and habitat use, home range, seasonal movements and diet of wintering AW in the Senegal delta.

Aquatic Warbler range



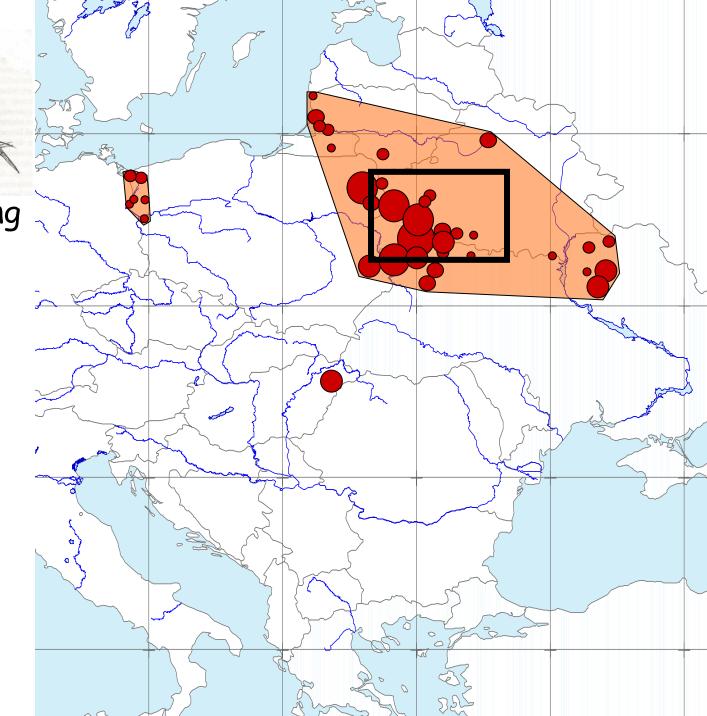


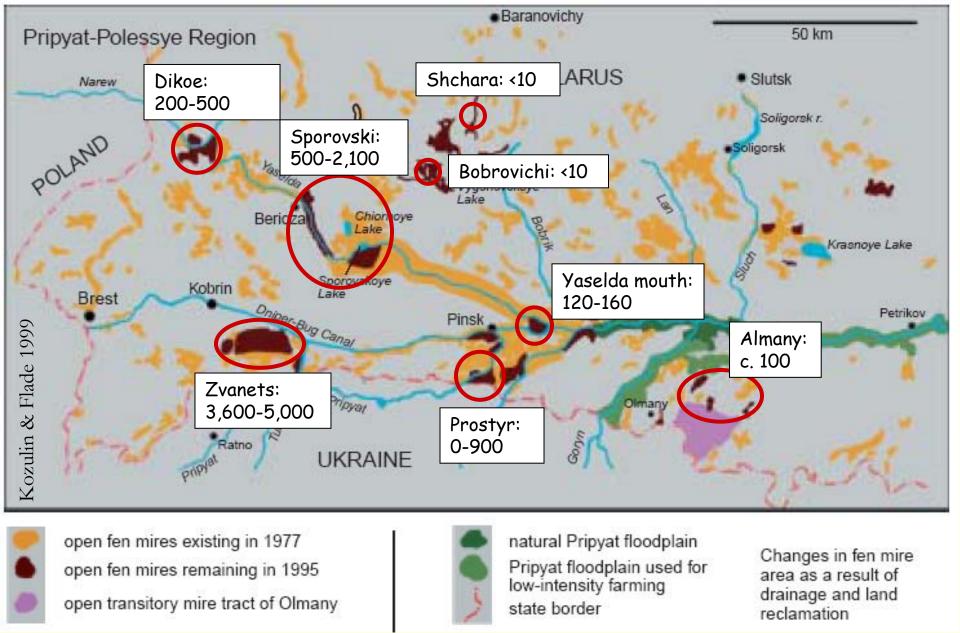
Aquatic Warbler



Current breeding distribution (maximum number of singing males)

- 0-10
- **10-50**
- **50-200**
- 200-1000
- 1000-5000
- >5000





Aquatic Warbler and fen mires in Belarus





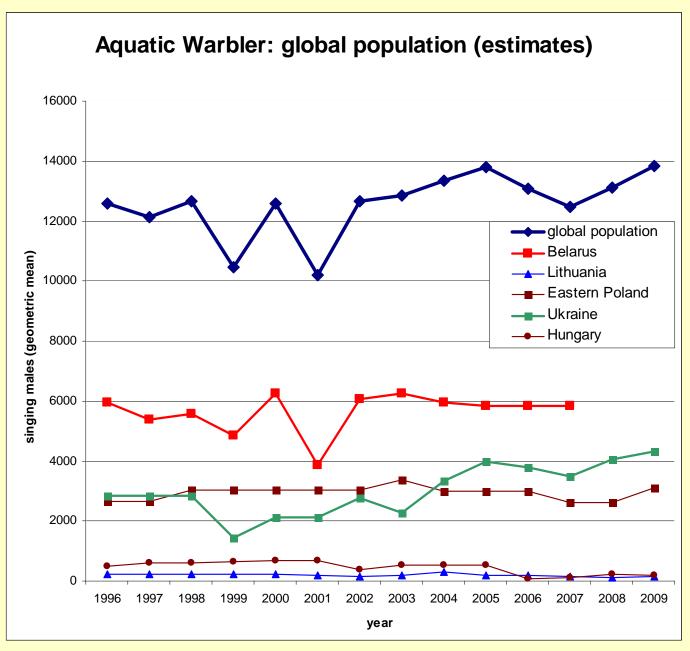


Zvanets, Belarus, June 2004



Borki, NW-Ukraine, summer 2005



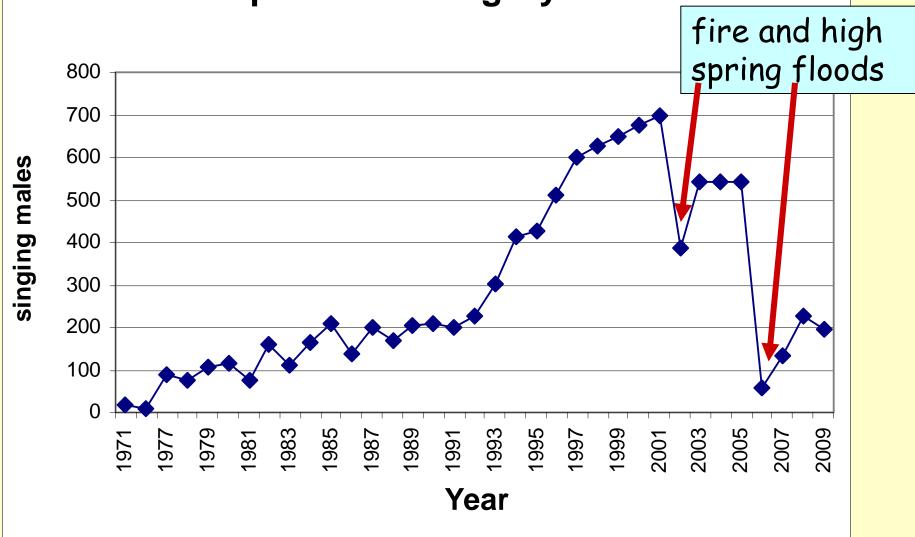


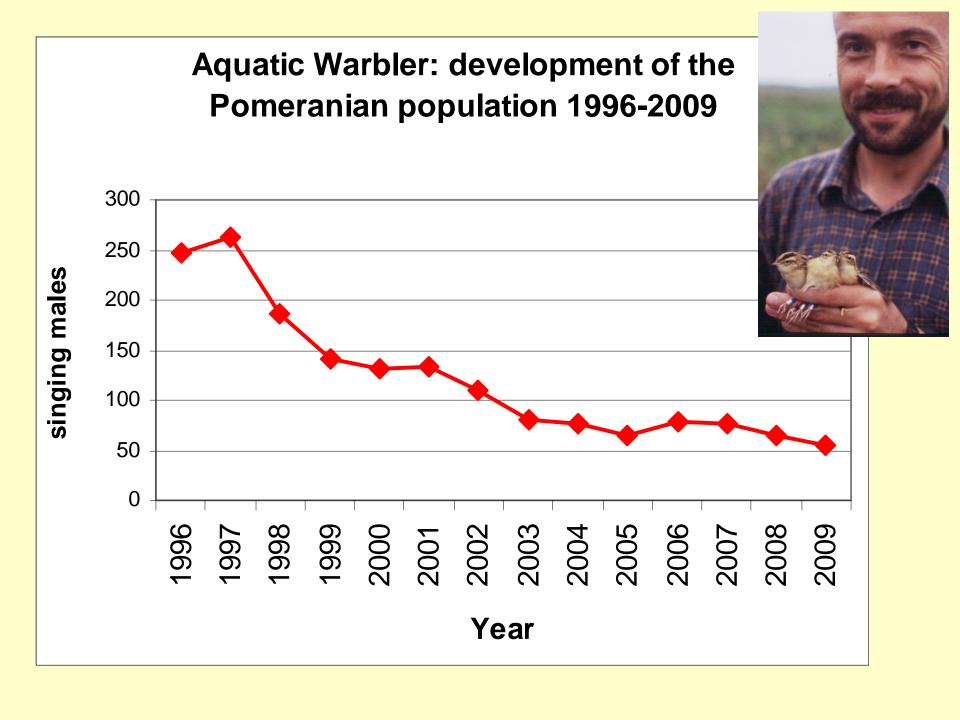


Current major threats to the central-European AW population:

- > River bed deepening at the upper Ukrainian Pripyat
- > to early mowing of polder meadows at the Lithuanian Nemunas delta
- > Vegetation succession of fen mires speeds up







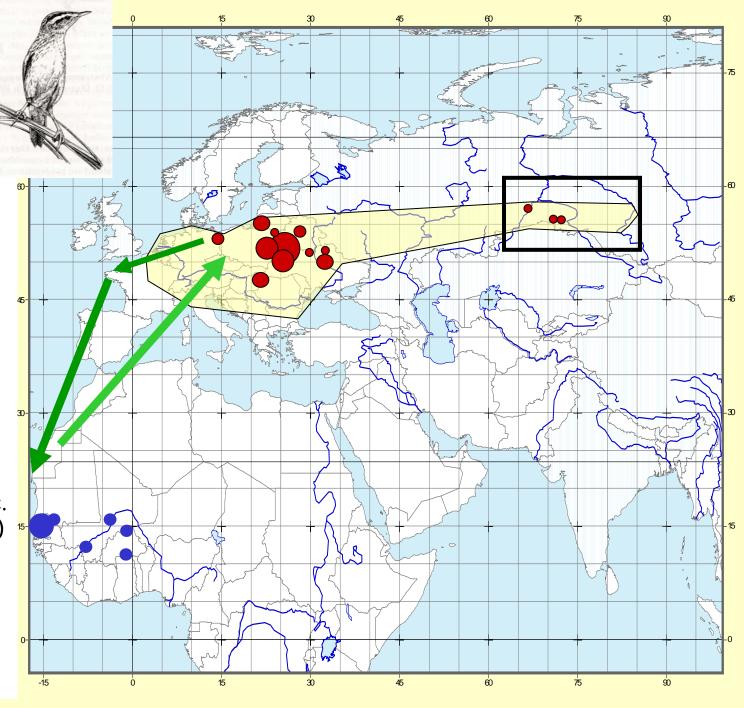
Aquatic Warbler

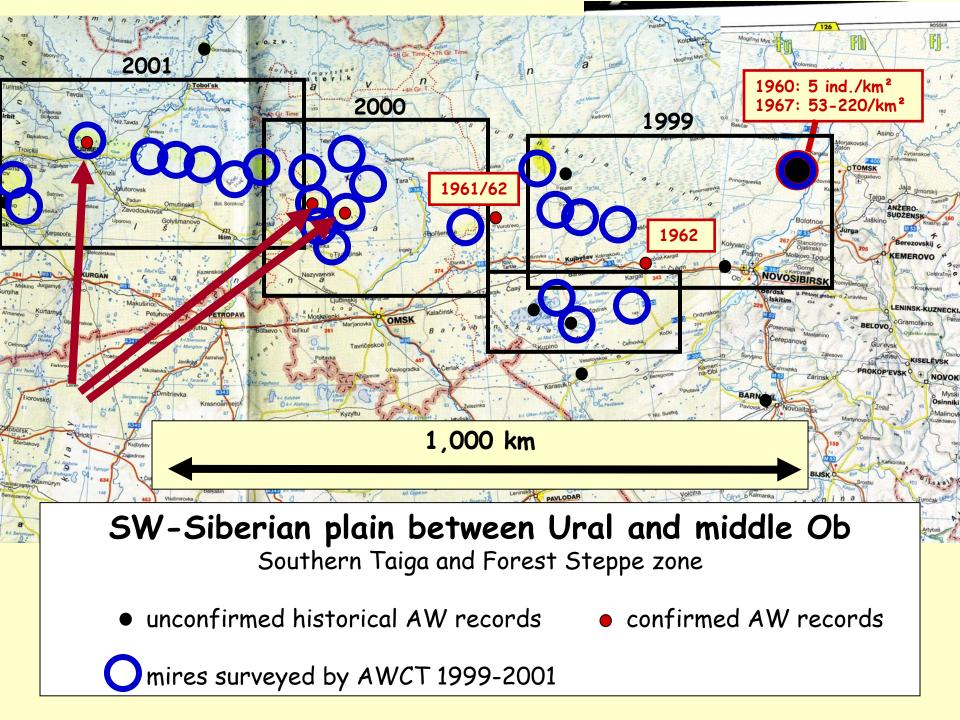
Global range

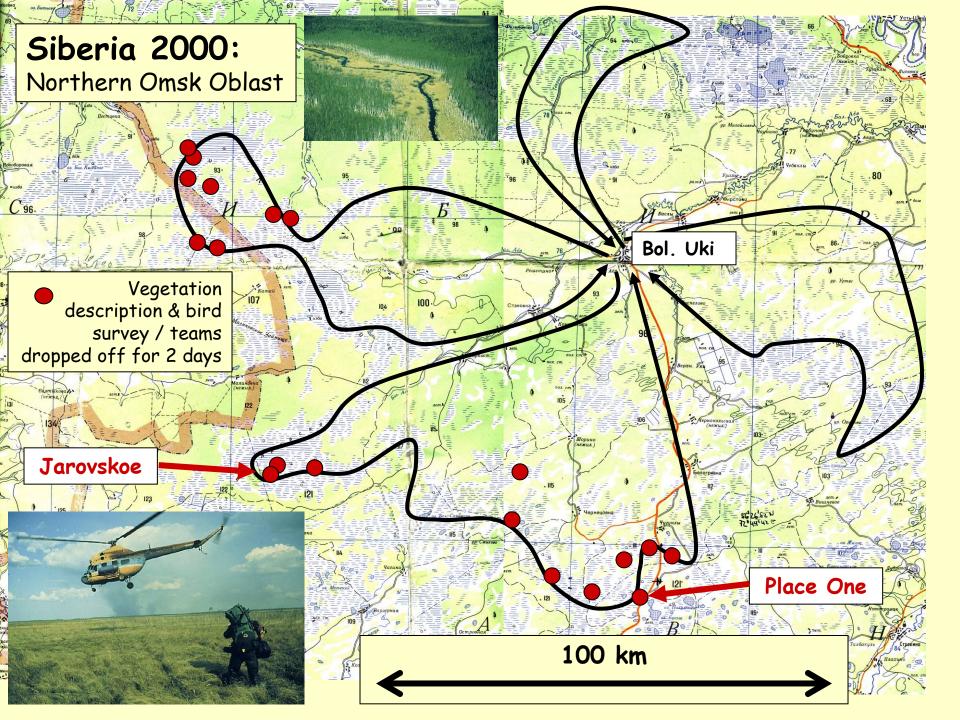
current breeding:

- <50
- 50-200
- **200-1000**
- 1000-5000
- >5000
- Winter rec.(Dec., Jan.)
- former range

migration











The secret of Aquatic Warbler occurrence in W-Siberia

- tremendous drainage campaigns in central Europe/Russia starting in the 1950s
- concentration of reliable breeding records in W-Siberia in the 1960s
- increased occurrence of AW on migration in the E-Mediterranean 1958-66
- occupation of sites in W-Siberia extremely discontinuous, despite huge areas of suitable habitats
- song, biometric measurements and genetics of Siberian AW are not different.

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The ,Exodus Hypothesis':

The strong occurrence of AW in W-Siberia in the 1950s/60s and recent disappearance was the result of a big exodus from central and eastern Europe to the east, initiated through large-scale drainage campaigns in the 1950s.

Summary:

Current status of the globally threatened Aquatic Warbler

- · Dramatic decline of population size and range during the 20th century;
- Regular breeding occurrence at less than 40 sites in 5 countries only;
- area of occupied habitat in Europe is $< 1000 \text{ km}^2 (30 \times 30 \text{ km})$ in total;
- 90 % of the global population is concentrated to Polessye and E-Poland (50,000 km²), >50 % is concentrated in Belarus, up to 40 % in one single mire.
- The isolated and probably genetically distinct or disconnected populations in Pomerania and W-Siberia are critically endangered.
- , partial extinction' = loss of genetic variability
- Only one important wintering site (Djoudj area) known so far (2009).



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BirdLife Belarus (APB)

and

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