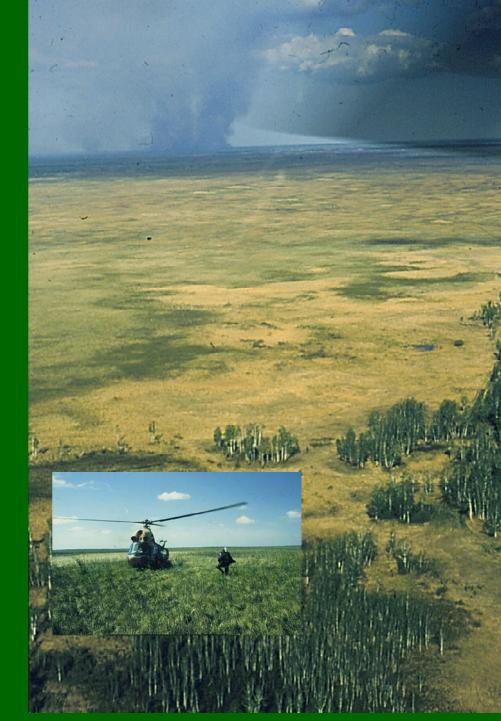
Conservation status of the Aquatic Warbler Acrocephalus paludicola in Siberia



Martin Flade, Aquatic Warbler Conservation Team



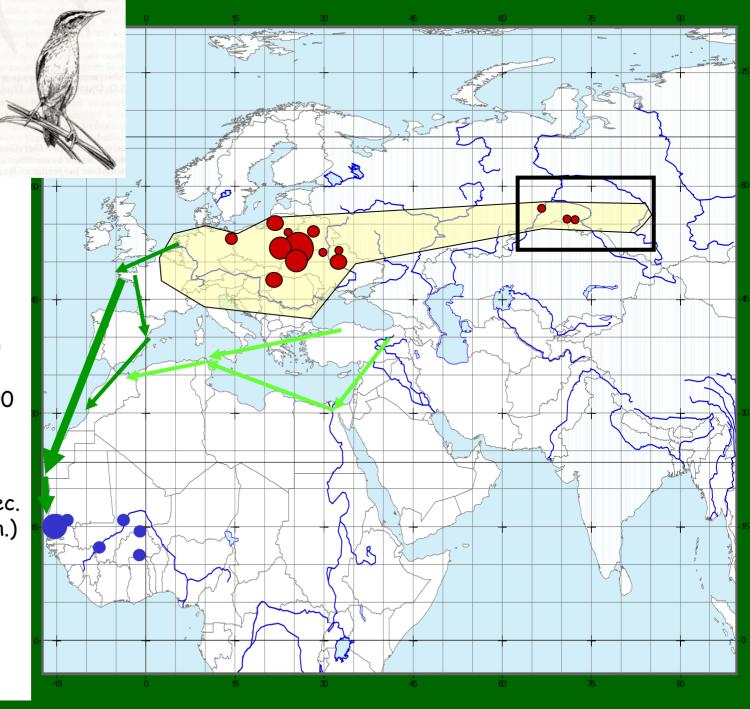
#### Aquatic Warbler

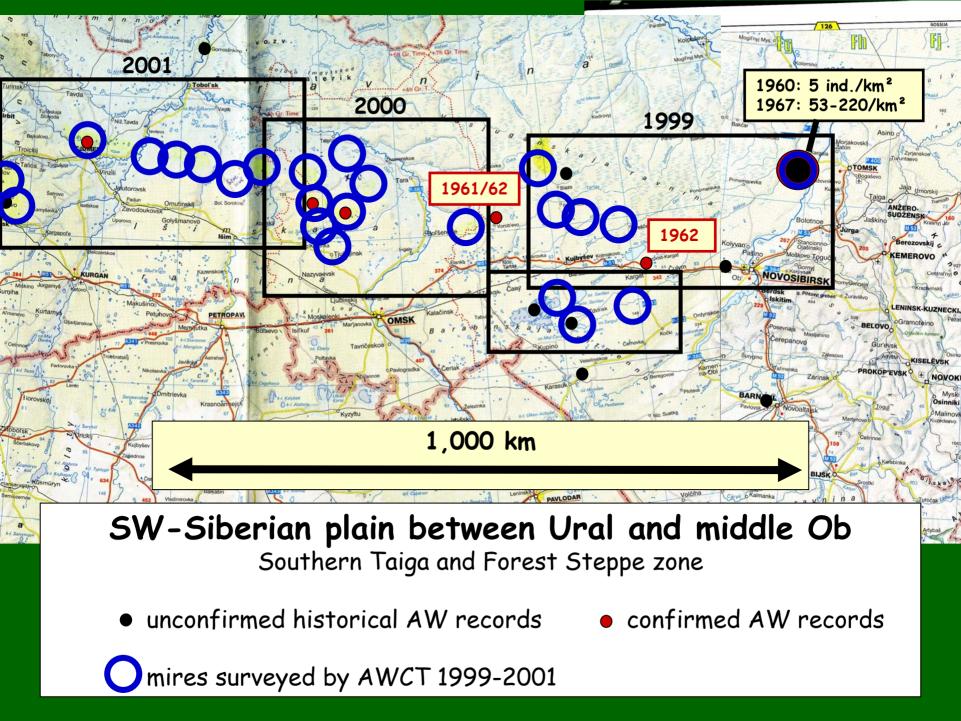
#### Global range

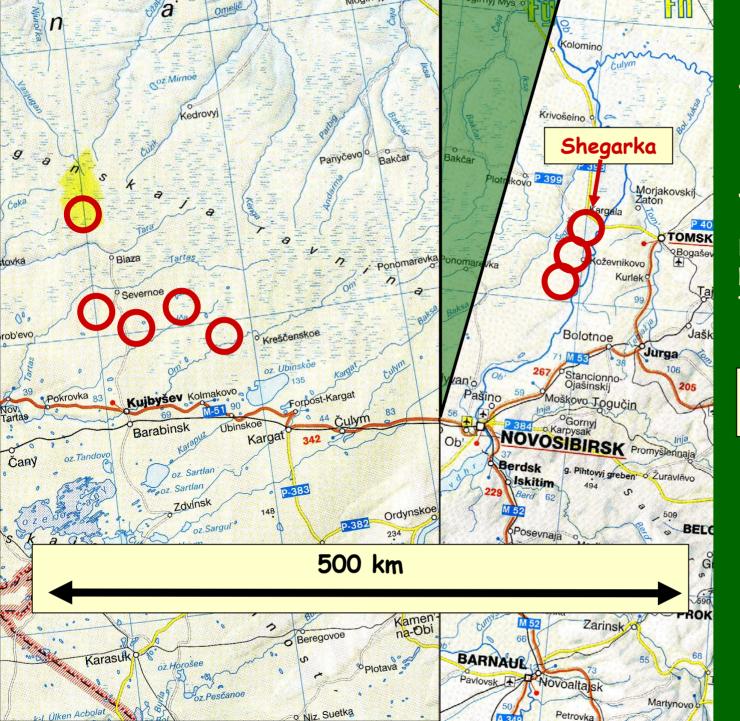
current breeding:

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

migration





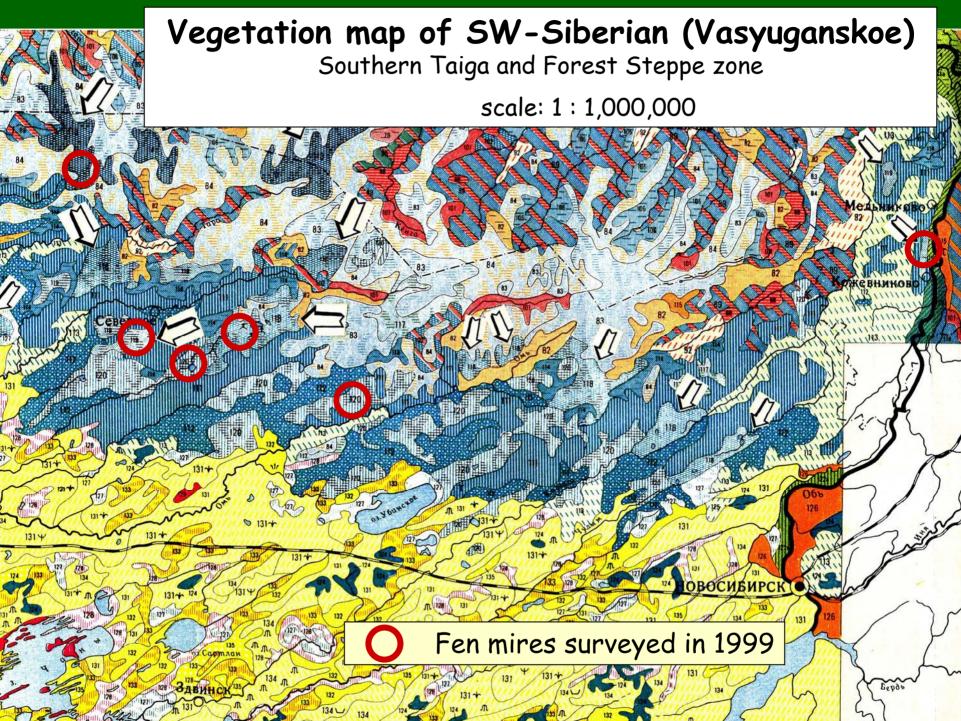


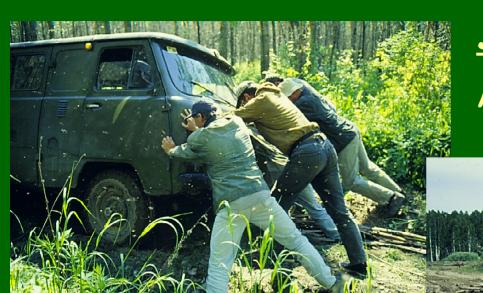
Survey area 1999:

SE-Vasyuganskoe

Barabinsk – Novosibirsk – Tomsk

o surveyed fen mires





#### Siberia 1999:

Huge transport problems...



#### Siberia 1999:

Hard field conditions, nasty animals...





"Moshka very klein, but bolshoj scheisse"

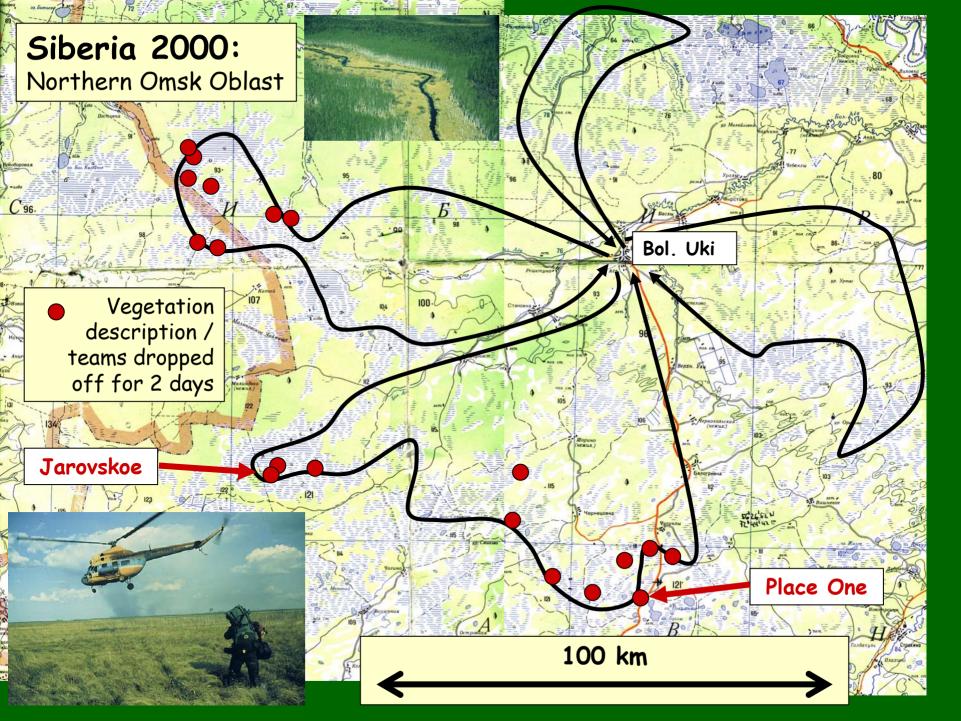
fresh Brown Bear foot prints beside our tents...



Wonderful Shegarka mire near Tomsk

Hundreds of singing Aquatic Warblers in 1967 ???





### AWCT Siberia expeditions 1999-2001 (-2005)

#### Field work done in the mires

- § Description of mire vegetation and habitat structures (water table etc.)
- § measurements of trophic level and mineralisation of mire water;
- § breeding-bird survey (line transects);
- § searching for Aquatic Warbler, catching, blood and feather sampling;
- § helicopter count of Dalmation Pelican at Lake Tenis (northernmost colonie on the world), for Wetlands International;
- § catching and feather sampling of waders in the 1<sup>st</sup> calendar year (for Debbie Pain/RSPB, as Slender-billed Curlew surrogate species);
- § catching and feather sampling of Corncrakes (for Walther Wettstein);
- § catching and feather sampling of Bluethroats (for Ake Linstrom);
- § catching and feather sampling of fen mire warblers (for Debbie Pain).







#### Siberia 2000 (Omsk, Alapy mire): "See you, darling!"



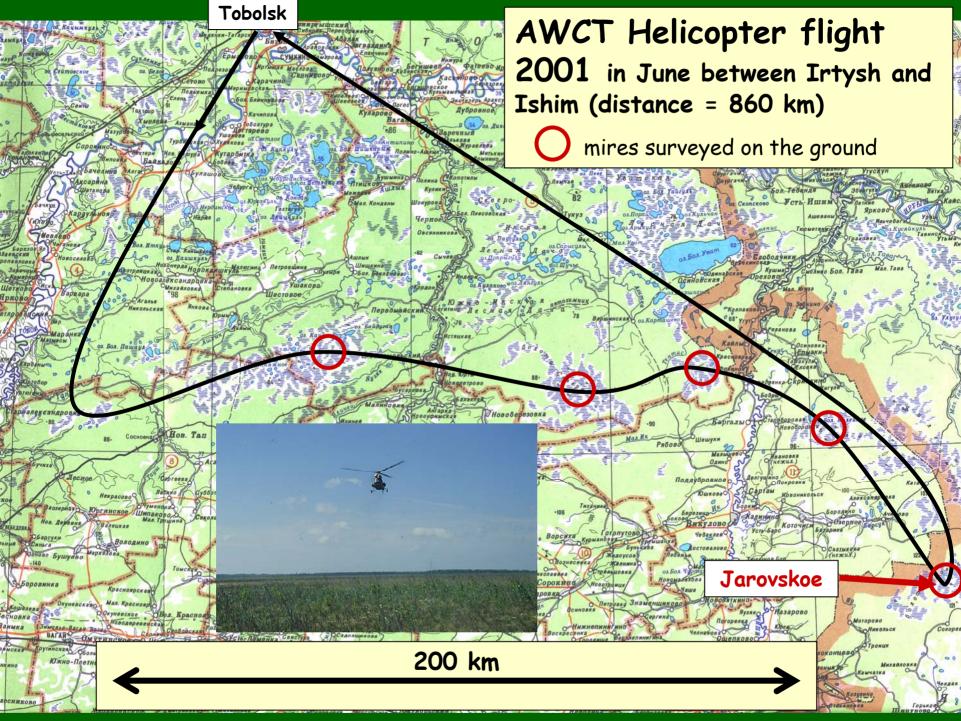
Martin, Janush, Mikhail, Sasha, Susanne, Torsten, Sebastian, Sergej, Vladimir, Benedikt, Jarek

#### Northern Omsk Oblast: area balance

Situation of type 118-120 mires according to the vegetation map, in spring 2000; figures indicate the area size of open mire in km<sup>2</sup>

(total area of fen mires surveyed: 2,200 km²)

S*X□M, �□SM◆		* <b>O</b> IM 		☐ጢ♍ጢ■♦●☒ ♌♦☐■ጢ≏		ਰ ਹੁਣਮ∎∭	
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<b>* †</b> M,□&= <b>X</b> M,		120		70	58 %	50	42 %
©©□□❖•&□M			200	70	35 %	-	
			180	180	100 %	-	
			150	-		150	100 %
8●●9□□			700	500	70 %	-	
<b>※□◆⊙●</b> □	500	470	1,230	830	38 %	200	9 %







#### AWCT Siberia expeditions 1999-2001 (-2005)

#### Conclusions

- There are > 4,000 km² of +/- suitable fen mires left in W-Siberia;
- even in W-Siberia the fen mires are threatened through drainage and uncontrolled burning;
- slightly drained fens are threatened by abandonment of hay cutting;
- Aquatic Warbler occurs in very small numbers on vast areas;
  populations are shifting permanently, no regular breeding site is known;
- AW population size is estimated at (not more than) 50-500 males;
- Siberian AW population is completely isolated and is most likely going extinct;
- Breeding-bird communities of sedge fens have largely been surveyed, with many surprises out of the known range (e.g. Pallas Bunting, Little Bunting, Pallas' Grashopper Warbler, Baillon's Crake, Honey Buzzard, Pallid Harrier, Swinhoe's Snipe, Scop's Owl...)

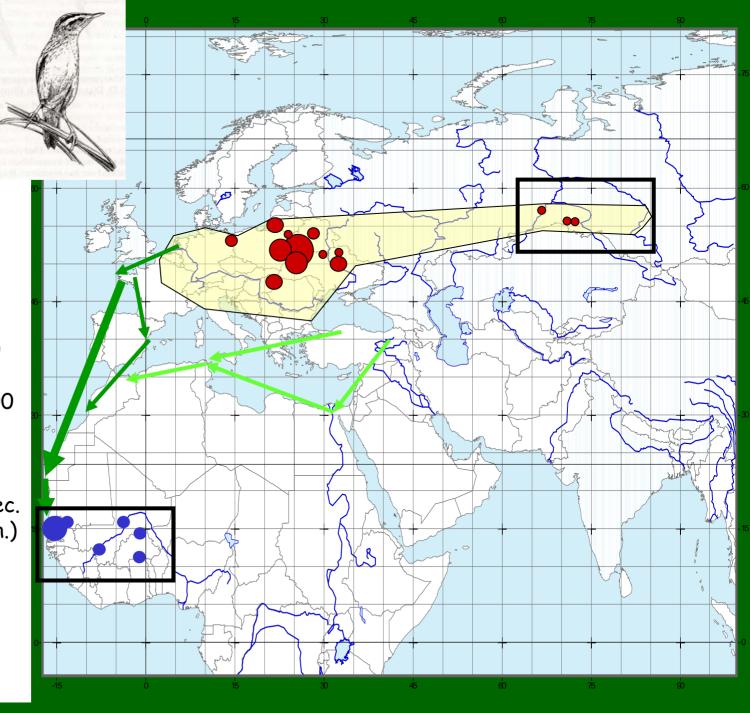
#### Aquatic Warbler

#### Global range

current breeding:

- <50
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# The secret of the Aquatic Warbler in W-Siberia Putting facts together:

- There is a conspicious concentration of reliable breeding records in W-Siberia (collected specimen, nests found, big numbers of singing AW) in the 1960s.
- At the same time, there was an increased occurrence of AW on migration in the E-Mediterranian and Middle East (4 out of 10 records: 1958, 1964, 65, 66).
- At the same time, tremendous drainage and land reclamation campaigns started in central Europe and European Russia.
- The occupation of sites in W-Siberia was (and is still) extremely discontinuous (no permanent breeding sites, maximum was 2 subsequent years).
  - => see the "Gypsy Theory" according to RAVKIN: "There exists a small breeding population of AW of nomadic character in W-Siberia, which is much smaller than the habitat capacity".
- Song and biometric measurements of Siberian AW are not different.
- Despite huge areas of suitable habitats in W-Siberia, the conditions for AW are pessimal:
- migration distance to W-Africa is as twice as long as from Polessye (and AW obviously is not capable to make long non-stop flights),
- due to climatic reasons, only 1 annual brood is possible (lower reproduction).

## The ,GULAG' Hypothesis:

The strong occurrence and recent disappearance of the Aquatic Warbler in W-Siberia was the result of a big exodus from central and eastern Europe in the 1960s to the east, leading into pessimal breeding sites.

This exodus was initiated through large-scale drainage campaigns in central and E-Europe which started in the early 1960s.

#### Waiting for the helicopter...



... bye bye!