

SUPPLEMENTARY INFORMATION

Towards more comprehensive population genetics of European Turtle Doves: Microsatellite markers and cytochrome b from across the distribution range

Hannes Russ, Yvonne R. Schumm, Uta Gerz, Benjamin J. Metzger, Gregorio Rocha, Viktoria Mader, Elchin Sultanov, Ilgar Mustafayev Mirzaga, Jens Hering, Hans-Joachim Fünfstück, Juan Carlos Illera, Juan F. Masello, & Petra Quillfeldt

Table S1 Turtle Dove individuals for microsatellite and cyt *b* analyses.

ID	Breeding region	Location	Coordinates	Date	Subspecies
TT-01	Western-Germany	Hesse	50.052432, 8.451323	21.06.2018	<i>S. t. turtur</i>
TT-03	Western-Germany	Hesse	50.052432, 8.451323	25.06.2018	<i>S. t. turtur</i>
TT-04	Western-Germany	Hesse	50.052432, 8.451323	25.06.2018	<i>S. t. turtur</i>
TT-05	Western-Germany	Hesse	50.348942, 8.653543	02.07.2018	<i>S. t. turtur</i>
TT-19-01	Western-Germany	Hesse	50.491078, 8.922468	13.06.2019	<i>S. t. turtur</i>
TT-20-01	Western-Germany	Hesse	50.436582, 8.550373	05.07.2020	<i>S. t. turtur</i>
TT-20-02	Western-Germany	Hesse	50.436582, 8.550373	07.07.2020	<i>S. t. turtur</i>
TT-20-03	Western-Germany	Hesse	50.491082, 8.92239	08.07.2020	<i>S. t. turtur</i>
TT-20-04	Western-Germany	Hesse	50.436582, 8.550373	13.06.2020	<i>S. t. turtur</i>
TT-23-HE-01	Western-Germany	Hesse	50.862776, 8.866623	02.06.2023	<i>S. t. turtur</i>
TT-23-HE-02	Western-Germany	Hesse	50.862776, 8.866623	15.06.2023	<i>S. t. turtur</i>
TT-23--HE03	Western-Germany	Hesse	51.269438, 8.792881	20.06.2023	<i>S. t. turtur</i>
TT-23-HE-04	Western-Germany	Hesse	51.269438, 8.792881	20.06.2023	<i>S. t. turtur</i>
TT-23-HE-05	Western-Germany	Hesse	50.456711, 8.224726	29.06.2023	<i>S. t. turtur</i>
TT-23-HE-06	Western-Germany	Hesse	50.445464, 8.258582	05.07.2023	<i>S. t. turtur</i>
TT-19-02	Eastern-Germany	Brandenburg	51.916765, 14.32890	24.06.2019	<i>S. t. turtur</i>
TT-19-03	Eastern-Germany	Brandenburg	51.917851, 14.32971	25.06.2019	<i>S. t. turtur</i>
TT-19-04	Eastern-Germany	Brandenburg	51.917374, 14.33740	25.06.2019	<i>S. t. turtur</i>
BB1-A	Eastern-Germany	Brandenburg	51.921461, 14.28055	01.07.2018	<i>S. t. turtur</i>
TT-23-SA-01	Eastern-Germany	Saxony-Anhalt	51.144531, 12.14625	06.06.2023	<i>S. t. turtur</i>
TT-23-SA-02	Eastern-Germany	Saxony-Anhalt	51.144531, 12.14625	07.06.2023	<i>S. t. turtur</i>
TT-23-SA-03	Eastern-Germany	Saxony-Anhalt	51.144531, 12.14625	07.06.2023	<i>S. t. turtur</i>
TT-23-SA-04	Eastern-Germany	Saxony-Anhalt	51.144531, 12.14625	07.06.2023	<i>S. t. turtur</i>
TT-23-SA-05	Eastern-Germany	Saxony-Anhalt	51.144531, 12.14625	08.06.2023	<i>S. t. turtur</i>
TT-23-SA-06	Eastern-Germany	Saxony-Anhalt	51.144531, 12.14625	24.06.2023	<i>S. t. turtur</i>
TT-23-AZ-01	Azerbaijan	Moranli	39.740144, 48.70868	09.07.2023	<i>S. t. turtur</i>
TT-23-AZ-02	Azerbaijan	Moranli	39.740144, 48.70868	09.07.2023	<i>S. t. turtur</i>
TT-23-AZ-03	Azerbaijan	Moranli	39.740144, 48.70868	09.07.2023	<i>S. t. turtur</i>
TT-23-AZ-05	Azerbaijan	Moranli	39.744345, 48.68672	09.07.2023	<i>S. t. turtur</i>
TT-23-AZ-06	Azerbaijan	Moranli	39.744345, 48.68672	09.07.2023	<i>S. t. turtur</i>
TT-23-AZ-07	Azerbaijan	Moranli	39.744345, 48.68672	09.07.2023	<i>S. t. turtur</i>
TT-23-AZ-08	Azerbaijan	Moranli	39.744345, 48.68672	10.07.2023	<i>S. t. turtur</i>
TT-23-AZ-09	Azerbaijan	Moranli	39.757966, 48.63387	12.07.2023	<i>S. t. turtur</i>

TT-23-AZ-10	Azerbaijan	Moranli	39.757966, 48.63387	12.07.2023	<i>S. t. turtur</i>
TT-23-AZ-11	Azerbaijan	Moranli	39.757966, 48.63387	12.07.2023	<i>S. t. turtur</i>
TT-23-AZ-12	Azerbaijan	Moranli	39.740144, 48.70868	13.07.2023	<i>S. t. turtur</i>
TT-23-AZ-13	Azerbaijan	Moranli	39.740144, 48.70868	13.07.2023	<i>S. t. turtur</i>
EGY-19-TT-02	Egypt	Lake Nasser	23.247075, 32.724433	08.05.2019	<i>S. t. rufescens</i>
EGY-19-TT-03	Egypt	Lake Nasser	23.186525, 32.713514	09.05.2019	<i>S. t. rufescens</i>
EGY-19-TT-04	Egypt	Lake Nasser	23.186525, 32.713514	09.05.2019	<i>S. t. rufescens</i>
EGY-19-TT-05	Egypt	Lake Nasser	22.492097, 31.806886	15.05.2019	<i>S. t. rufescens</i>
EGY-19-TT-06	Egypt	Lake Nasser	22.492097, 31.806886	15.05.2019	<i>S. t. rufescens</i>
EGY-19-TT-07	Egypt	Lake Nasser	22.492097, 31.806886	15.05.2019	<i>S. t. rufescens</i>
EGY-19-TT-08	Egypt	Lake Nasser	22.492097, 31.806886	15.05.2019	<i>S. t. rufescens</i>
EGY-19-TT-09	Egypt	Lake Nasser	22.492097, 31.806886	16.05.2019	<i>S. t. rufescens</i>
TT-MAR_01	Morocco	Souss-Massa	30.525020, -8.895971	17.08.2020	<i>S. t. arenicola</i>
TT-MAR_02	Morocco	Souss-Massa	30.525020, -8.895971	17.08.2020	<i>S. t. arenicola</i>
TT-MAR_03	Morocco	Souss-Massa	30.525020, -8.895971	17.08.2020	<i>S. t. arenicola</i>
TT-MAR_04	Morocco	Souss-Massa	30.525020, -8.895971	18.08.2020	<i>S. t. arenicola</i>
TT-MAR_05	Morocco	Souss-Massa	30.525020, -8.895971	18.08.2020	<i>S. t. arenicola</i>
TT-MAR_06	Morocco	Souss-Massa	30.525020, -8.895971	18.08.2020	<i>S. t. arenicola</i>
TT-MAR_07	Morocco	Souss-Massa	30.525020, -8.895971	18.08.2020	<i>S. t. arenicola</i>
TT-MAR_08	Morocco	Souss-Massa	30.525020, -8.895971	18.08.2020	<i>S. t. arenicola</i>
TT-MAR_09	Morocco	Souss-Massa	30.525020, -8.895971	19.08.2020	<i>S. t. arenicola</i>
TT-MAR_10	Morocco	Souss-Massa	30.525020, -8.895971	19.08.2020	<i>S. t. arenicola</i>
TT-MAR_11	Morocco	Souss-Massa	30.525020, -8.895971	19.08.2020	<i>S. t. arenicola</i>
TT-MAR_12	Morocco	Souss-Massa	30.525020, -8.895971	19.08.2020	<i>S. t. arenicola</i>
TT-MAR_13	Morocco	Souss-Massa	30.525020, -8.895971	19.08.2020	<i>S. t. arenicola</i>
TT-MAR_14	Morocco	Souss-Massa	30.525020, -8.895971	20.08.2020	<i>S. t. arenicola</i>
TT-MAR_15	Morocco	Souss-Massa	30.525020, -8.895971	20.08.2020	<i>S. t. arenicola</i>
TT-MAR_16	Morocco	Souss-Massa	30.525020, -8.895971	20.08.2020	<i>S. t. arenicola</i>
TT-MAR_17	Morocco	Souss-Massa	30.525020, -8.895971	20.08.2020	<i>S. t. arenicola</i>
TT-MAR_18	Morocco	Souss-Massa	30.525020, -8.895971	20.08.2020	<i>S. t. arenicola</i>
TT-MAR_19	Morocco	Souss-Massa	30.525020, -8.895971	21.08.2020	<i>S. t. arenicola</i>
TT-MAR_20	Morocco	Souss-Massa	30.525020, -8.895971	21.08.2020	<i>S. t. arenicola</i>
TT-MAR_21	Morocco	Souss-Massa	30.525020, -8.895971	21.08.2020	<i>S. t. arenicola</i>
TT-MAR_22	Morocco	Souss-Massa	30.525020, -8.895971	21.08.2020	<i>S. t. arenicola</i>
CI2015_TT01	Tenerife	Guamasa	28.495556, -16.372500	17.05.2015	<i>S. t. turtur</i>
CI2015_TT02	Tenerife	Guamasa	28.495556, -16.372500	17.05.2015	<i>S. t. turtur</i>
CI2015_TT03	Tenerife	Guamasa	28.495556, -16.372500	17.05.2015	<i>S. t. turtur</i>

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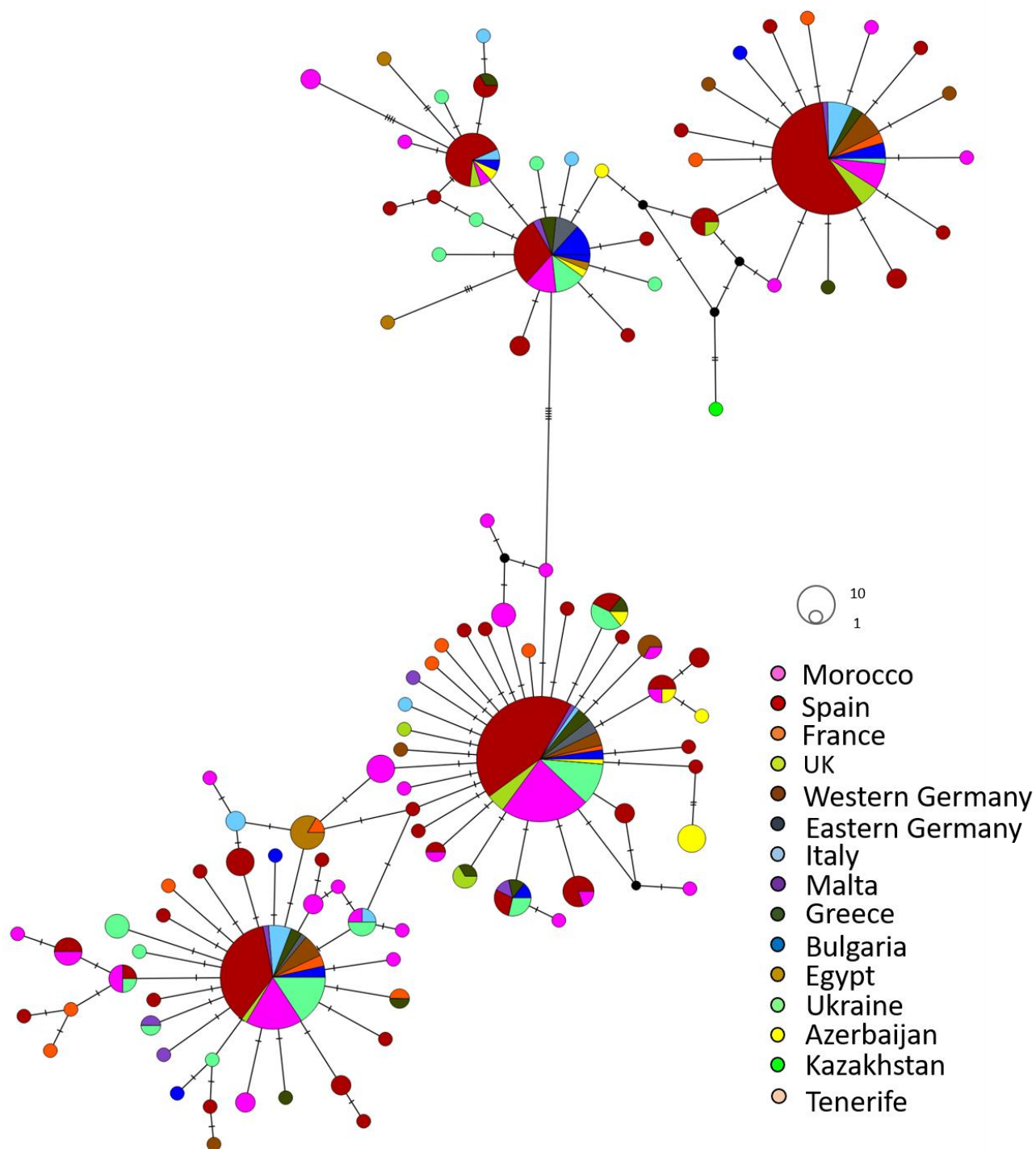


Fig. S1 Median joining network based on cytochrome *b* sequences of 421 Turtle Dove individuals collected in 15 countries. The size of the circles indicates the number of individuals sharing the sample haplotype, the lines represent mutational steps



Fig. S2 Turtle dove belonging to *Streptopelia turtur rufescens* caught at Lake Nasser in Egypt. The plumage has a high proportion of brown-orange compared to European individuals. Photo credit: Jens Hering



Fig. S3 Turtle dove that was caught in Germany belonging to the nominate subspecies *S. t. turtur*. Body feathers on the head and the back are mainly grey and less brown-orange compared to *S. t. rufescens*. Photo credit: Benjamin Metzger



Fig. S4 Breeding pair of Turtle doves (*S. t. rufescens*) at Lake Nasser in Egypt. Photo credit: Hans-Joachim Fünfstück



Fig. S5 Turtle doves belonging to the nominate subspecies *S. t. turtur*. Photo credit: Hans-Joachim Fünfstück

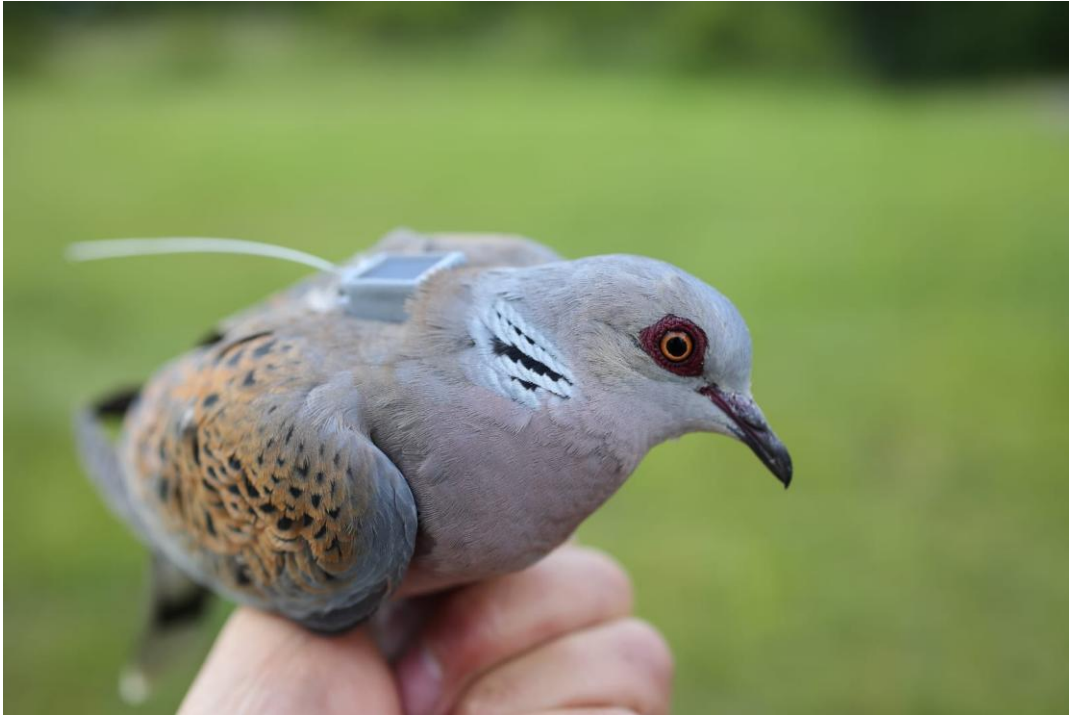


Fig. S6 Turtle dove (*S. t. turtur*) caught in Germany with more grey and less coloured parts in the region of the head and the breast compared to individuals from Egypt. Photo credit: Benjamin Metzger



Fig. S7 Turtle dove (*S. t. rufescens*) from Lake Nasser, Egypt. Photo credit: Jens Hering