

Supplementary material

Appendix 1. Altitudinal distribution and main black color of plumage in males of 60 species and subspecies of thrushes used in the plumage reconstruction analysis. It include the continent where each species inhabit and if have latitudinal migration (partial migration mean that all individuals from one species migrate to non-reproductive areas, but reproductive and non-reproductive areas overlap geographically). Information was obtained from Clement and Hathway (2000) and Collar (2005) reviews of the Turdidae family.

Species	Geographic region	Plumage color	Migratory behavior	Altitudinal distribution (m)		
				lower	middle	upper
<i>Turdus pelios</i>	Africa	brown	yes	0	1200	2400
<i>Turdus libonyanus</i>	Africa	grey	no	900	1200	1500
<i>Turdus olivaceus olivaceofuscus</i>	Africa	brown	no	0	1000	2000
<i>Turdus olivaceus smithi</i>	Africa	black	partial	1500	2450	3400
<i>Turdus olivaceus abyssinicus</i>	Africa	black	no	900	2125	3350
<i>Turdus olivaceus helleri</i>	Africa	black	no	1615	1677.5	1740
<i>Turdus olivaceus bewsheri</i>	Africa	brown	no	0	350	700
<i>Turdus olivaceus olivaceus</i>	Africa	grey	no	800	1150	1500
<i>Turdus olivaceus nyikae</i>	Africa	grey	no	950	1700	2450
<i>Turdus olivaceus transvaalensis</i>	Africa	grey	no	800	1150	1500
<i>Nesocichla eremita</i>	Africa	brown	no	0	0	0
<i>Turdus aurantius</i>	America	brown	no	0	900	1800
<i>Turdus plumbeus</i>	America	grey	no	0	600	1200
<i>Turdus chiguanco</i>	America	brown	no	2000	3150	4300
<i>Turdus nigrescens</i>	America	black	no	2500	3160	3820
<i>Turdus fuscater</i>	America	brown	no	1400	2825	4250
<i>Turdus infuscatus</i>	America	black	no	1200	2350	3500
<i>Turdus serranus</i>	America	black	no	1500	2150	2800
<i>Turdus nigriceps</i>	America	black	no	500	1250	2000
<i>Turdus reevei</i>	America	grey	no	0	900	1800
<i>Turdus olivater</i>	America	brown	no	800	1550	2300
<i>Turdus maranonicus</i>	America	brown	no	200	1100	2000
<i>Turdus fulviventris</i>	America	black	no	1300	2000	2700
<i>Turdus rufiventris</i>	America	brown	no	0	1300	2600
<i>Turdus falcklandii</i>	America	brown	no	0	1075	2150
<i>Turdus leucomelas</i>	America	brown	no	0	950	1900
<i>Turdus amaurochalinus</i>	America	brown	partial	0	1050	2100
<i>Turdus plebejus</i>	America	brown	partial	1600	2162.5	2725
<i>Turdus ignobilis</i>	America	brown	no	900	1500	2100
<i>Turdus lawrencii</i>	America	brown	no	0	250	500
<i>Turdus obsoletus</i>	America	brown	no	50	775	1500
<i>Turdus fumigatus</i>	America	brown	no	0	500	1000
<i>Turdus hauxwelli</i>	America	brown	no	0	200	400
<i>Turdus grayi</i>	America	brown	no	0	1350	2700

<i>Turdus nudigenis</i>	America	brown	no	0	500	1000
<i>Turdus maculirostris</i>	America	brown	no	0	1000	2000
<i>Turdus haplochrous</i>	America	brown	no	0	0	0
<i>Turdus jamaicensis</i>	America	brown	no	100	850	1800
<i>Turdus assimilis</i>	America	brown	partial	0	1500	3000
<i>Turdus albicollis</i>	America	brown	no	0	1200	2400
<i>Turdus rufopalliatus</i>	America	brown	no	0	750	1500
<i>Turdus swalesi</i>	America	brown	no	1360	1360	1360
<i>Turdus migratorius</i>	America	black	partial	0	1850	3700
<i>Turdus rufitorques</i>	America	black	no	1500	2565	3630
<i>Platycichla leucops</i>	America	black	no	1000	1500	2000
<i>Platycichla flavipes</i>	America	black	no	500	1250	2000
<i>Cichlherminia lherminieri</i>	America	brown	no	0	500	1000
<i>Turdus hortulorum</i>	Asia	grey	yes	0	550	1100
<i>Turdus unicolor</i>	Asia	grey	partial	1200	1950	2700
<i>Turdus dissimilis</i>	Asia	black	no	1200	1850	2500
<i>Turdus cardis</i>	Asia	black	yes	400	950	1500
<i>Turdus boulboul</i>	Asia	black	no	1500	1900	2300
<i>Turdus poliocephalus</i>	Asia	black	no	0	1375	2750
<i>Turdus kessleri</i>	Asia	black	yes	3600	4050	4500
<i>Turdus obscurus</i>	Asia	brown	yes	0	750	1500
<i>Turdus pallidus</i>	Asia	brown	yes	0	1650	3300
<i>Turdus chrysolaus</i>	Asia	brown	yes	0	1200	2400
<i>Turdus ruficollis</i>	Asia	grey	yes	0	1100	2200
<i>Turdus naumanni</i>	Asia	brown	yes	0	1500	3000
<i>Turdus iliacus</i>	Eurasia	brown	yes	0	0	0
<i>Turdus philomelos</i>	Eurasia	brown	partial	0	1100	2200
<i>Turdus viscivorus</i>	Eurasia	brown	partial	600	1150	1700
<i>Turdus torquatus</i>	Europe	black	yes	300	460	620
<i>Turdus merula</i>	Europe	black	no	0	2287.5	4575
<i>Turdus pilaris</i>	Europe	grey	yes	0	1155	2310

References

Clement, P. and Hathway, R. 2000. Thrushes. – Christopher Helm.

Collar, N. J. 2005. Family Turdidae (Thrushes). – In: del Hoyo, J., Elliott, A. and Christie, D. (eds.), Handbook of the birds of the world, volume 10. Cuckoo-shrikes to thrushes. Lynx Edicions, pp. 514–807.