

Ecography

ECOG-01163

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Supplementary material

790 **Appendix 1. Additional tables and figures.**

791

792 **Table A1.**

793 North African samples of *Testudo graeca* whose Cytochrome *b* sequences were
 794 downloaded from GenBank. Geographic information was taken from previous works or
 795 in the case of sequences from works pending publication was directly provided by the
 796 authors. GenCODE refers to voucher samples in the collections of the Museum of
 797 Zoology Dresden (MZD) or Miguel Hernandez University (MHU).

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Subspecies	genCODE	Collection	Locality	Cyt <i>b</i> haplotype	GenBank accession number	Reference
<i>T. g. graeca</i>	A-AC01	MHU	(AL) Ain Chorfa	B ₁ 29	HE585732	Graciá et al., 2013
<i>T. g. graeca</i>	A-AC02	MHU	(AL) Ain Chorfa	B ₁ 29	HE585732	Graciá et al., 2013
<i>T. g. graeca</i>	A-AC03	MHU	(AL) Ain Chorfa	B ₁ 29	HE585732	Graciá et al., 2013
<i>T. g. graeca</i>	A-AC04	MHU	(AL) Ain Chorfa	B ₁ 29	HE585732	Graciá et al., 2013
<i>T. g. graeca</i>	A-AC05	MHU	(AL) Ain Chorfa	B ₁ 29	HE585732	Graciá et al., 2013
<i>T. g. graeca</i>	A-AC06	MHU	(AL) Ain Chorfa	B ₁ 29	HE585732	Graciá et al., 2013
<i>T. g. graeca</i>	A-AC07	MHU	(AL) Ain Chorfa	B ₁ 29	HE585732	Graciá et al., 2013
<i>T. g. graeca</i>	A-AC08	MHU	(AL) Ain Chorfa	B ₁ 29	HE585732	Graciá et al., 2013
<i>T. g. graeca</i>	A-AC09	MHU	(AL) Ain Chorfa	B ₁ 29	HE585732	Graciá et al., 2013
<i>T. g. graeca</i>	A-AC10	MHU	(AL) Ain Chorfa	B ₁ 33	HE585736	Graciá et al., 2013
<i>T. g. graeca</i>	A-AN01	MHU	(AL) Ain Naga	B ₁ 22	HE585725	Graciá et al., 2013
<i>T. g. graeca</i>	4104	MZD	(AL) Algiers	B ₁ 3	FM162028	Fritz et al., 2009
<i>T. g. graeca</i>	A-AR01	MHU	(AL) Algiers	B ₁ 21	HE585724	Graciá et al., 2013
<i>T. g. graeca</i>	A-AM01	MHU	(AL) Amoura	B ₁ 2	FM162027	Graciá et al., 2013
<i>T. g. graeca</i>	4106	MZD	(AL) Annaba	B ₁ 3	FM162028	Graciá et al., 2013
<i>T. g. graeca</i>	A-A1	MHU	(AL) Annaba	B ₁ 3	FM162028	Graciá et al., 2013
<i>T. g. graeca</i>	A-BI01	MHU	(AL) Birkhadem	B ₁ 3	FM162028	Graciá et al., 2013
<i>T. g. graeca</i>	A-GA01	MHU	(AL) Gare Aomar	B ₁ 29	HE585732	Graciá et al., 2013
<i>T. g. graeca</i>	A-G01	MHU	(AL) Guelma	B ₁ 3	FM162028	Graciá et al., 2013
<i>T. g. graeca</i>	A-G03	MHU	(AL) Guelma	B ₁ 3	FM162028	Graciá et al., 2013
<i>T. g. graeca</i>	A-G04	MHU	(AL) Guelma	B ₁ 3	FM162028	Graciá et al., 2013
<i>T. g. graeca</i>	A-GU01	MHU	(AL) Guertofa	B ₁ 17	HE585720	Graciá et al., 2013
<i>T. g. graeca</i>	A-GU02	MHU	(AL) Guertofa	B ₁ 29	HE585732	Graciá et al., 2013
<i>T. g. graeca</i>	A-GU03	MHU	(AL) Guertofa	B ₁ 19	HE585722	Graciá et al., 2013
<i>T. g. graeca</i>	A-GU04	MHU	(AL) Guertofa	B ₁ 29	HE585732	Graciá et al., 2013
<i>T. g. graeca</i>	A-GU05	MHU	(AL) Guertofa	B ₁ 17	HE585720	Graciá et al., 2013
<i>T. g. graeca</i>	A-GU06	MHU	(AL) Guertofa	B ₁ 17	HE585720	Graciá et al., 2013
<i>T. g. graeca</i>	A-GU07	MHU	(AL) Guertofa	B ₁ 29	HE585732	Graciá et al., 2013
<i>T. g. graeca</i>	A-GU08	MHU	(AL) Guertofa	B ₁ 17	HE585720	Graciá et al., 2013
<i>T. g. graeca</i>	A-GU09	MHU	(AL) Guertofa	B ₁ 17	HE585720	Graciá et al., 2013

Subspecies	genCODE	Collection	Locality	Cyt <i>b</i> haplotype	GenBank accession number	Reference
<i>T. g. graeca</i>	A-GU10	MHU	(AL) Guertofa	B ₁ 32	HE585735	Graciá et al., 2013
<i>T. g. graeca</i>	A-GU11	MHU	(AL) Guertofa	B ₁ 29	HE585732	Graciá et al., 2013
<i>T. g. graeca</i>	A-KA01	MHU	(AL) Kadiria	B ₁ 3	FM162028	Graciá et al., 2013
<i>T. g. graeca</i>	4101	MZD	(AL) Khenchela	B ₁ 3	FM162028	Fritz et al., 2009
<i>T. g. graeca</i>	4102	MZD	(AL) Khenchela	B ₁ 3	FM162028	Fritz et al., 2009
<i>T. g. graeca</i>	4103	MZD	(AL) Khenchela	B ₁ 3	FM162028	Unpublished
<i>T. g. graeca</i>	A-MS05	MHU	(AL) Messad	B ₁ 11	HE585714	Graciá et al., 2013
<i>T. g. graeca</i>	A-MS06	MHU	(AL) Messad	B ₁ 29	HE585732	Graciá et al., 2013
<i>T. g. graeca</i>	A-MS07	MHU	(AL) Messad	B ₁ 14	HE585717	Graciá et al., 2013
<i>T. g. graeca</i>	A-MS08	MHU	(AL) Messad	B ₁ 29	HE585732	Graciá et al., 2013
<i>T. g. graeca</i>	A-MS09	MHU	(AL) Messad	B ₁ 31	HE585734	Graciá et al., 2013
<i>T. g. graeca</i>	A-MS10	MHU	(AL) Messad	B ₁ 3	FM162028	Graciá et al., 2013
<i>T. g. graeca</i>	A-MS11	MHU	(AL) Messad	B ₁ 29	HE585732	Graciá et al., 2013
<i>T. g. graeca</i>	A-MS12	MHU	(AL) Messad	B ₁ 11	HE585714	Graciá et al., 2013
<i>T. g. graeca</i>	A-MS13	MHU	(AL) Messad	B ₁ 14	HE585717	Graciá et al., 2013
<i>T. g. graeca</i>	A-MS14	MHU	(AL) Messad	B ₁ 12	HE585715	Graciá et al., 2013
<i>T. g. graeca</i>	A-MB00	MHU	(AL) Moudjbara	B ₁ 23	HE585726	Graciá et al., 2013
<i>T. g. graeca</i>	A-MB01	MHU	(AL) Moudjbara	B ₁ 13	HE585716	Graciá et al., 2013
<i>T. g. graeca</i>	A-MB02	MHU	(AL) Moudjbara	B ₁ 13	HE585716	Graciá et al., 2013
<i>T. g. graeca</i>	A-MB04	MHU	(AL) Moudjbara	B ₁ 11	HE585714	Graciá et al., 2013
<i>T. g. graeca</i>	A-MB05	MHU	(AL) Moudjbara	B ₁ 23	HE585726	Graciá et al., 2013
<i>T. g. graeca</i>	A-MB06	MHU	(AL) Moudjbara	B ₁ 23	HE585726	Graciá et al., 2013
<i>T. g. graeca</i>	A-MB07	MHU	(AL) Moudjbara	B ₁ 23	HE585726	Graciá et al., 2013
<i>T. g. graeca</i>	A-MB08	MHU	(AL) Moudjbara	B ₁ 23	HE585726	Graciá et al., 2013
<i>T. g. graeca</i>	A-MB10	MHU	(AL) Moudjbara	B ₁ 13	HE585716	Graciá et al., 2013
<i>T. g. graeca</i>	A-MB11	MHU	(AL) Moudjbara	B ₁ 23	HE585726	Graciá et al., 2013
<i>T. g. graeca</i>	A-MB14	MHU	(AL) Moudjbara	B ₁ 23	HE585726	Graciá et al., 2013
<i>T. g. graeca</i>	A-MB15	MHU	(AL) Moudjbara	B ₁ 23	HE585726	Graciá et al., 2013
<i>T. g. graeca</i>	A-MB16	MHU	(AL) Moudjbara	B ₁ 23	HE585726	Graciá et al., 2013
<i>T. g. graeca</i>	A-MB17	MHU	(AL) Moudjbara	B ₁ 23	HE585726	Graciá et al., 2013
<i>T. g. graeca</i>	5391	MZD	(AL) Mountains near Tiaret (confiscated)	B ₁ 29	HE585732	Unpublished
<i>T. g. graeca</i>	5396	MZD	(AL) Mountains near Tiaret (confiscated)	B ₁ 29	HE585732	Unpublished
<i>T. g. graeca</i>	5144	MZD	(AL) Oran	B ₁ 3	FM162028	Fritz et al., 2009
<i>T. g. graeca</i>	A-SS01	MHU	(AL) Saf Saf	B ₁ 2	FM162027	Graciá et al., 2013
<i>T. g. graeca</i>	A-SS02	MHU	(AL) Saf Saf	B ₁ 2	FM162027	Graciá et al., 2013
<i>T. g. graeca</i>	A-SS03	MHU	(AL) Saf Saf	B ₁ 2	FM162027	Graciá et al., 2013
<i>T. g. graeca</i>	A-SS04	MHU	(AL) Saf Saf	B ₁ 27	HE585730	Graciá et al., 2013
<i>T. g. graeca</i>	A-SS05	MHU	(AL) Saf Saf	B ₁ 2	FM162027	Graciá et al., 2013
<i>T. g. graeca</i>	A-SS06	MHU	(AL) Saf Saf	B ₁ 28	HE585731	Graciá et al., 2013
<i>T. g. graeca</i>	A-SS07	MHU	(AL) Saf Saf	B ₁ 26	HE585729	Graciá et al., 2013
<i>T. g. graeca</i>	A-SS08	MHU	(AL) Saf Saf	B ₁ 8	HE588137	Graciá et al., 2013
<i>T. g. graeca</i>	A-SS09	MHU	(AL) Saf Saf	B ₁ 2	FM162027	Graciá et al., 2013
<i>T. g. graeca</i>	A-SS10	MHU	(AL) Saf Saf	B ₁ 29	HE585732	Graciá et al., 2013
<i>T. g. graeca</i>	A-SS11	MHU	(AL) Saf Saf	B ₁ 29	HE585732	Graciá et al., 2013
<i>T. g. graeca</i>	A-SB01	MHU	(AL) Sidi M'Hamed Benaouda	B ₁ 30	HE585733	Graciá et al., 2013
<i>T. g. graeca</i>	A-SB02	MHU	(AL) Sidi M'Hamed Benaouda	B ₁ 2	FM162027	Graciá et al., 2013
<i>T. g. graeca</i>	A-TH01	MHU	(AL) Theniet el Had	B ₁ 3	FM162028	Graciá et al., 2013

Subspecies	genCODE	Collection	Locality	Cyt <i>b</i> haplotype	GenBank accession number	Reference
<i>T. g. graeca</i>	A-TH02	MHU	(AL) Theniet el Had	B ₁ 3	FM162028	Graciá et al., 2013
<i>T. g. graeca</i>	A-TH03	MHU	(AL) Theniet el Had	B ₁ 3	FM162028	Graciá et al., 2013
<i>T. g. graeca</i>	A-TH05	MHU	(AL) Theniet el Had	B ₁ 24	HE585727	Graciá et al., 2013
<i>T. g. graeca</i>	A-TH06	MHU	(AL) Theniet el Had	B ₁ 3	FM162028	Graciá et al., 2013
<i>T. g. graeca</i>	A-TH07	MHU	(AL) Theniet el Had	B ₁ 3	FM162028	Graciá et al., 2013
<i>T. g. graeca</i>	A-KH01	MHU	(AL) Zemmora	B ₁ 29	HE585732	Graciá et al., 2013
<i>T. g. graeca</i>	A-KH02	MHU	(AL) Zemmora	B ₁ 2	FM162027	Graciá et al., 2013
<i>T. g. graeca</i>	A-KH03	MHU	(AL) Zemmora	B ₁ 18	HE585721	Graciá et al., 2013
<i>T. g. graeca</i>	A-KH04	MHU	(AL) Zemmora	B ₁ 20	HE585723	Graciá et al., 2013
<i>T. g. graeca</i>	A-ZE01	MHU	(AL) Zemouri-Leguata	B ₁ 25	HE585728	Graciá et al., 2013
<i>T. g. graeca</i>	A-ZE02	MHU	(AL) Zemouri-Leguata	B ₁ 3	FM162028	Graciá et al., 2013
<i>T. g. graeca</i>	A-ZE03	MHU	(AL) Zemouri-Leguata	B ₁ 3	FM162028	Graciá et al., 2013
<i>T. g. graeca</i>	A-ZE04	MHU	(AL) Zemouri-Leguata	B ₁ 3	FM162028	Graciá et al., 2013
<i>T. g. graeca</i>	A-ZE06	MHU	(AL) Zemouri-Leguata	B ₁ 3	FM162028	Graciá et al., 2013
<i>T. g. graeca</i>	A-ZE07	MHU	(AL) Zemouri-Leguata	B ₁ 3	FM162028	Graciá et al., 2013
<i>T. g. graeca</i>	A-ZE08	MHU	(AL) Zemouri-Leguata	B ₁ 3	FM162028	Graciá et al., 2013
<i>T. g. graeca</i>	A-ZE09	MHU	(AL) Zemouri-Leguata	B ₁ 3	FM162028	Graciá et al., 2013
<i>T. g. graeca</i>	A-ZE10	MHU	(AL) Zemouri-Leguata	B ₁ 3	FM162028	Graciá et al., 2013
<i>T. g. graeca</i>	4451	MZD	(MO) Debdou	B ₁ 5	FM162030	Fritz et al., 2009
<i>T. g. graeca</i>	M-MO02	MHU	(MO) Moulouya	B ₁ 10	HE585713	Graciá et al., 2013
<i>T. g. graeca</i>	M-MO03	MHU	(MO) Moulouya	B ₁ 9	HE588138	Graciá et al., 2013
<i>T. g. graeca</i>	M-MO04	MHU	(MO) Moulouya	B ₁ 6	FM162031	Graciá et al., 2013
<i>T. g. graeca</i>	M-MO05	MHU	(MO) Moulouya	B ₁ 6	FM162031	Graciá et al., 2013
<i>T. g. graeca</i>	M-MO06	MHU	(MO) Moulouya	B ₁ 6	FM162031	Graciá et al., 2013
<i>T. g. graeca</i>	M-MO07	MHU	(MO) Moulouya	B ₁ 34	HE585737	Graciá et al., 2013
<i>T. g. graeca</i>	4447	MZD	(MO) Moulouya River Mouth	B ₁ 6	FM162031	Fritz et al., 2009
<i>T. g. graeca</i>	4448	MZD	(MO) Moulouya River Mouth	B ₁ 6	FM162031	Fritz et al., 2009
<i>T. g. graeca</i>	2294	MZD	(MO) NE Otat Oulad el Hajj	B ₁ 7	AM230965	Fritz et al., 2007
<i>T. g. graeca</i>	M-KA11	MHU	(MO) Sidi Redouane	B ₁ 6	FM162031	Unpublished
<i>T. g. marokkensis</i>	5445	MZD	(MO) Ain Bouali (Fes)	B ₂ 2	HE585738	Unpublished
<i>T. g. marokkensis</i>	5446	MZD	(MO) Ain Bouali (Fes)	B ₂ 2	HE585738	Unpublished
<i>T. g. marokkensis</i>	5468	MZD	(MO) Ain Bouali (Fes)	B ₂ 1	FM162032	Unpublished
<i>T. g. marokkensis</i>	5469	MZD	(MO) Ain Bouali (Fes)	B ₂ 3	HE585739	Unpublished
<i>T. g. marokkensis</i>	5470	MZD	(MO) Ain Bouali (Fes)	B ₂ 4	HE585740	Unpublished
<i>T. g. marokkensis</i>	5471	MZD	(MO) Ain Bouali (Fes)	B ₂ 1	FM162032	Unpublished
<i>T. g. marokkensis</i>	5472	MZD	(MO) Ain Bouali (Fes)	B ₂ 1	FM162032	Unpublished
<i>T. g. marokkensis</i>	5235	MZD	(MO) Arbaoua, near the barrage of Al Makhazine	B ₂ 1	FM162032	Fritz et al., 2009
<i>T. g. marokkensis</i>	5236	MZD	(MO) Arbaoua, near the barrage of Al Makhazine	B ₂ 1	FM162032	Fritz et al., 2009
<i>T. g. marokkensis</i>	4446	MZD	(MO) Balcon D'Ito	B ₂ 1	FM162032	Fritz et al., 2009
<i>T. g. marokkensis</i>	M-EH1	MHU	(MO) Harcha-Oulmés	B ₂ 1	FM162032	Unpublished
<i>T. g. marokkensis</i>	M-EH2a	MHU	(MO) Harcha-Oulmés	B ₂ 7	HE585743	Unpublished
<i>T. g. marokkensis</i>	M-EH2b	MHU	(MO) Harcha-Oulmés	B ₂ 1	FM162032	Unpublished
<i>T. g. marokkensis</i>	M-EH3	MHU	(MO) Harcha-Oulmés	B ₂ 1	FM162032	Unpublished
<i>T. g. marokkensis</i>	M-KB1	MHU	(MO) Kariat Bamohammed	B ₂ 1	FM162032	Unpublished
<i>T. g. marokkensis</i>	M-KB2	MHU	(MO) Kariat Bamohammed	B ₂ 1	FM162032	Unpublished
<i>T. g. marokkensis</i>	5237	MZD	(MO) Near Lalla Mimouna	B ₂ 1	FM162032	Fritz et al., 2009
<i>T. g. marokkensis</i>	M-SA1	MHU	(MO) Near Volubilis, Moulay	B ₂ 1	FM162032	Unpublished

Subspecies	genCODE	Collection	Locality	Cyt <i>b</i> haplotype	GenBank accession number	Reference
			Driss Zerhoune			
<i>T. g. marokkensis</i>	M-SA2	MHU	(MO) Near Volubilis, Moulay Driss Zerhoune	B ₂ 1	FM162032	Unpublished
<i>T. g. marokkensis</i>	M-SA3	MHU	(MO) Near Volubilis, Moulay Driss Zerhoune	B ₂ 1	FM162032	Unpublished
<i>T. g. marokkensis</i>	4182	MZD	(MO) Oudrass, S Tétouan	B ₂ 1	FM162032	Fritz et al., 2009
<i>T. g. marokkensis</i>	4183	MZD	(MO) Oudrass, S Tétouan	B ₂ 1	FM162032	Fritz et al., 2009
<i>T. g. marokkensis</i>	4184	MZD	(MO) Oudrass, S Tétouan	B ₂ 1	FM162032	Fritz et al., 2009
<i>T. g. marokkensis</i>	5366	MZD	(MO) Oued Errif, Douar El Bacha	B ₂ 1	FM162032	Unpublished
<i>T. g. marokkensis</i>	M-OU1	MHU	(MO) Oued Khemis	B ₂ 1	FM162032	Unpublished
<i>T. g. marokkensis</i>	M-OU2	MHU	(MO) Oued Khemis	B ₂ 1	FM162032	Unpublished
<i>T. g. marokkensis</i>	M-RH1	MHU	(MO) Oued Miet. Between Beni Ammar and Moulay Driss Zerhoune	B ₂ 1	FM162032	Unpublished
<i>T. g. marokkensis</i>	5423	MZD	(MO) Oulmes	B ₂ 5	HE585741	Unpublished
<i>T. g. marokkensis</i>	5424	MZD	(MO) Oulmes	B ₂ 5	HE585741	Unpublished
<i>T. g. marokkensis</i>	5425	MZD	(MO) Oulmes	B ₂ 1	FM162032	Unpublished
<i>T. g. marokkensis</i>	5426	MZD	(MO) Oulmes	B ₂ 1	FM162032	Unpublished
<i>T. g. marokkensis</i>	5450	MZD	(MO) Oulmes	B ₂ 5	HE585741	Unpublished
<i>T. g. marokkensis</i>	5451	MZD	(MO) Oulmes	B ₂ 5	HE585741	Unpublished
<i>T. g. marokkensis</i>	5452	MZD	(MO) Oulmes	B ₂ 9	HE585745	Unpublished
<i>T. g. marokkensis</i>	5453	MZD	(MO) Oulmes	B ₂ 5	HE585741	Unpublished
<i>T. g. marokkensis</i>	5454	MZD	(MO) Oulmes	B ₂ 9	HE585745	Unpublished
<i>T. g. marokkensis</i>	5455	MZD	(MO) Oulmes	B ₂ 5	HE585741	Unpublished
<i>T. g. marokkensis</i>	5456	MZD	(MO) Oulmes	B ₂ 5	HE585741	Unpublished
<i>T. g. marokkensis</i>	M-KA01	MHU	(MO) Sidi Redouane	B ₂ 1	FM162032	Unpublished
<i>T. g. marokkensis</i>	M-KA02	MHU	(MO) Sidi Redouane	B ₂ 1	FM162032	Unpublished
<i>T. g. marokkensis</i>	M-KA04	MHU	(MO) Sidi Redouane	B ₂ 1	FM162032	Unpublished
<i>T. g. marokkensis</i>	M-KA05	MHU	(MO) Sidi Redouane	B ₂ 8	HE585744	Unpublished
<i>T. g. marokkensis</i>	M-KA06	MHU	(MO) Sidi Redouane	B ₂ 1	FM162032	Unpublished
<i>T. g. marokkensis</i>	M-KA07	MHU	(MO) Sidi Redouane	B ₂ 1	FM162032	Unpublished
<i>T. g. marokkensis</i>	M-KA09	MHU	(MO) Sidi Redouane	B ₂ 1	FM162032	Unpublished
<i>T. g. marokkensis</i>	M-KA10	MHU	(MO) Sidi Redouane	B ₂ 1	FM162032	Unpublished
<i>T. g. marokkensis</i>	M-KA12	MHU	(MO) Sidi Redouane	B ₂ 8	HE585744	Unpublished
<i>T. g. marokkensis</i>	M-SM	MHU	(MO) Smir	B ₂ 1	FM162032	Unpublished
<i>T. g. marokkensis</i>	M-SL1a	MHU	(MO) Souk Letnin	B ₂ 9	HE585745	Unpublished
<i>T. g. marokkensis</i>	M-SL1b	MHU	(MO) Souk Letnin	B ₂ 1	FM162032	Unpublished
<i>T. g. marokkensis</i>	5457	MZD	(MO) Souss Valley: Admine Forest	B ₂ 1	FM162032	Unpublished
<i>T. g. marokkensis</i>	M-JK1	MHU	(MO) south Bab Taza	B ₂ 6	HE585742	Unpublished
<i>T. g. nabeulensis</i>	3250	MZD	(AL) El Kala	A7	FM162024	Fritz et al., 2009
<i>T. g. nabeulensis</i>	A-E1	MHU	(AL) El Kala	A6	FM162023	Unpublished
<i>T. g. nabeulensis</i>	A-E2	MHU	(AL) El Kala	A6	FM162023	Unpublished
<i>T. g. nabeulensis</i>	A-E3	MHU	(AL) El Kala	A7	FM162024	Unpublished
<i>T. g. nabeulensis</i>	A-E4	MHU	(AL) El Kala	A7	FM162024	Unpublished
<i>T. g. nabeulensis</i>	A-E5	MHU	(AL) El Kala	A6	FM162023	Unpublished
<i>T. g. nabeulensis</i>	A-E6	MHU	(AL) El Kala	A6	FM162023	Unpublished
<i>T. g. nabeulensis</i>	A-E7	MHU	(AL) El Kala	A6	FM162023	Unpublished
<i>T. g. nabeulensis</i>	A-E8	MHU	(AL) El Kala	A6	FM162023	Unpublished
<i>T. g. nabeulensis</i>	A-E9	MHU	(AL) El Kala	A6	FM162023	Unpublished
<i>T. g. nabeulensis</i>	5145	MZD	(AL) Skikda	A6	FM162023	Fritz et al., 2009
<i>T. g. nabeulensis</i>	6451	MZD	(LI) unknown exact origin	A12	HE585712	Unpublished

Subspecies	genCODE	Collection	Locality	Cyt <i>b</i> haplotype	GenBank accession number	Reference
<i>T. g. nabeulensis</i>	6453	MZD	(LI) unknown exact origin	A2	FM162020	Unpublished
<i>T. g. nabeulensis</i>	6454	MZD	(LI) unknown exact origin	A4	FM162022	Unpublished
<i>T. g. nabeulensis</i>	6455	MZD	(LI) unknown exact origin	A4	FM162022	Unpublished
<i>T. g. nabeulensis</i>	6456	MZD	(LI) unknown exact origin	A2	FM162020	Unpublished
<i>T. g. nabeulensis</i>	6458	MZD	(LI) unknown exact origin	A4	FM162022	Unpublished
<i>T. g. nabeulensis</i>	6459	MZD	(LI) unknown exact origin	A2	FM162020	Unpublished
<i>T. g. nabeulensis</i>	6460	MZD	(LI) unknown exact origin	A11	HE585711	Unpublished
<i>T. g. nabeulensis</i>	930	MZD	North Africa: confiscated	A2	FM162020	Unpublished
<i>T. g. nabeulensis</i>	1899	MZD	North Africa: confiscated	A3	FM162021	Unpublished
<i>T. g. nabeulensis</i>	41852	MZD	(TU) (confiscated)	A4	FM162022	Fritz et al., 2009
<i>T. g. nabeulensis</i>	42883	MZD	(TU) (confiscated)	A2	FM162020	Fritz et al., 2009
<i>T. g. nabeulensis</i>	42893	MZD	(TU) (confiscated)	A4	FM162022	Fritz et al., 2009
<i>T. g. nabeulensis</i>	44857	MZD	(TU) (confiscated)	A6	FM162023	Fritz et al., 2009
<i>T. g. nabeulensis</i>	44864	MZD	(TU) (confiscated)	A4	FM162022	Fritz et al., 2009
<i>T. g. nabeulensis</i>	44865	MZD	(TU) (confiscated)	A2	FM162020	Fritz et al., 2009
<i>T. g. nabeulensis</i>	46397	MZD	(TU) (confiscated)	A3	FM162021	Fritz et al., 2009
<i>T. g. nabeulensis</i>	46588	MZD	(TU) (confiscated)	A6	FM162023	Fritz et al., 2009
<i>T. g. nabeulensis</i>	4151	MZD	(TU) Djebel Bou Kornine near Hamam Lif	A2	FM162020	Fritz et al., 2009
<i>T. g. nabeulensis</i>	800	MZD	(TU) Nabeul	A4	FM162022	Fritz et al., 2009
<i>T. g. nabeulensis</i>	149	MZD	(TU) Sousse	A1	AM230971	Fritz et al., 2007
<i>T. g. nabeulensis</i>	5002	MZD	(TU) Tabarka	A6	FM162023	Fritz et al., 2009
<i>T. g. nabeulensis</i>	5003	MZD	(TU) Tabarka	A6	FM162023	Fritz et al., 2009
<i>T. g. nabeulensis</i>	5004	MZD	(TU) Tabarka	A8	FM162025	Fritz et al., 2009
<i>T. g. nabeulensis</i>	5005	MZD	(TU) Tabarka	A6	FM162023	Fritz et al., 2009
<i>T. g. soussensis</i>	3826	MZD	(MO) Aït-Ouirir	D6	FM162040	Fritz et al., 2009
<i>T. g. soussensis</i>	3817	MZD	(MO) 25 Km N Marrakech	D3	FM162037	Fritz et al., 2009
<i>T. g. soussensis</i>	3818	MZD	(MO) 25 Km N Marrakech	D1	FM162035	Fritz et al., 2009
<i>T. g. soussensis</i>	4441	MZD	(MO) Central Jbilet Mountains	D6	FM162040	Fritz et al., 2009
<i>T. g. soussensis</i>	4442	MZD	(MO) Central Jbilet Mountains	D1	FM162035	Fritz et al., 2009
<i>T. g. soussensis</i>	4443	MZD	(MO) Central Jbilet Mountains	D6	FM162040	Fritz et al., 2009
<i>T. g. soussensis</i>	4445	MZD	(MO) Central Jbilet Mountains	D6	FM162040	Fritz et al., 2009
<i>T. g. soussensis</i>	4449	MZD	(MO) Demnate region: Iminifri	D5	FM162039	Fritz et al., 2009
<i>T. g. soussensis</i>	4450	MZD	(MO) Demnate region: Iminifri	D5	FM162039	Fritz et al., 2009
<i>T. g. soussensis</i>	4431	MZD	(MO) Essaouira	D4	FM162038	Fritz et al., 2009
<i>T. g. soussensis</i>	4432	MZD	(MO) Essaouira	D4	FM162038	Fritz et al., 2009
<i>T. g. soussensis</i>	4433	MZD	(MO) Essaouira	D4	FM162038	Fritz et al., 2009
<i>T. g. soussensis</i>	4434	MZD	(MO) Essaouira	D4	FM162038	Fritz et al., 2009
<i>T. g. soussensis</i>	4435	MZD	(MO) Essaouira	D9	FM162043	Fritz et al., 2009
<i>T. g. soussensis</i>	3815	MZD	(MO) Foothills of Jbel Amsitene	D3	FM162037	Fritz et al., 2009
<i>T. g. soussensis</i>	5272	MZD	(MO) near Rabat	D11	HE585747	Unpublished
<i>T. g. soussensis</i>	5036	MZD	(MO) Sidi Toual	D8	FM162042	Fritz et al., 2009
<i>T. g. soussensis</i>	4436	MZD	(MO) Souss Valley, Admine Forest	D4	FM162038	Fritz et al., 2009
<i>T. g. soussensis</i>	4437	MZD	(MO) Souss Valley, Admine Forest	D9	FM162043	Fritz et al., 2009
<i>T. g. soussensis</i>	4438	MZD	(MO) Souss Valley, Admine Forest	D8	FM162042	Fritz et al., 2009
<i>T. g. soussensis</i>	4439	MZD	(MO) Souss Valley, Admine Forest	D2	FM162036	Fritz et al., 2009
<i>T. g. soussensis</i>	4440	MZD	(MO) Souss Valley, Admine Forest	D8	FM162042	Fritz et al., 2009
<i>T. g. soussensis</i>	5429	MZD	(MO) Souss Valley, Admine Forest	D9	FM162043	Unpublished
<i>T. g. soussensis</i>	5430	MZD	(MO) Souss Valley, Admine Forest	D8	FM162042	Unpublished
<i>T. g. soussensis</i>	5431	MZD	(MO) Souss Valley, Admine Forest	D8	FM162042	Unpublished

Subspecies	genCODE	Collection	Locality	Cyt <i>b</i> haplotype	GenBank accession number	Reference
<i>T. g. soussensis</i>	5432	MZD	(MO) Souss Valley, Admine Forest	D3	FM162037	Unpublished
<i>T. g. soussensis</i>	5433	MZD	(MO) Souss Valley, Admine Forest	D2	FM162036	Unpublished
<i>T. g. soussensis</i>	5458	MZD	(MO) Souss Valley, Admine Forest	D8	FM162042	Unpublished
<i>T. g. soussensis</i>	5459	MZD	(MO) Souss Valley, Admine Forest	D2	FM162036	Unpublished
<i>T. g. soussensis</i>	5460	MZD	(MO) Souss Valley, Admine Forest	D8	FM162042	Unpublished
<i>T. g. soussensis</i>	4426	MZD	(MO) Tafarayate	D3	FM162037	Fritz et al., 2009
<i>T. g. soussensis</i>	4427	MZD	(MO) Tafarayate	D3	FM162037	Fritz et al., 2009
<i>T. g. soussensis</i>	4428	MZD	(MO) Tafarayate	D7	FM162041	Fritz et al., 2009
<i>T. g. soussensis</i>	4429	MZD	(MO) Tafarayate	D3	FM162037	Fritz et al., 2009
<i>T. g. soussensis</i>	4430	MZD	(MO) Tafarayate	D6	FM162040	Fritz et al., 2009
<i>T. g. soussensis</i>	5436	MZD	(MO) Taroudannt	D9	FM162043	Unpublished
<i>T. g. soussensis</i>	5437	MZD	(MO) Taroudannt	D3	FM162037	Unpublished
<i>T. g. soussensis</i>	5438	MZD	(MO) Taroudannt	D2	FM162036	Unpublished
<i>T. g. soussensis</i>	5439	MZD	(MO) Taroudannt	D8	FM162042	Unpublished
<i>T. g. soussensis</i>	5440	MZD	(MO) Taroudannt	D2	FM162036	Unpublished
<i>T. g. soussensis</i>	5441	MZD	(MO) Taroudannt	D10	HE585746	Unpublished
<i>T. g. soussensis</i>	5442	MZD	(MO) Taroudannt	D3	FM162037	Unpublished
<i>T. g. soussensis</i>	5443	MZD	(MO) Taroudannt	D8	FM162042	Unpublished
<i>T. g. soussensis</i>	5461	MZD	(MO) Taroudannt	D3	FM162037	Unpublished
<i>T. g. soussensis</i>	5462	MZD	(MO) Tnine de l'Ourika	D3	FM162037	Unpublished
<i>T. g. soussensis</i>	5463	MZD	(MO) Tnine de l'Ourika	D3	FM162037	Unpublished
<i>T. g. soussensis</i>	5464	MZD	(MO) Tnine de l'Ourika	D3	FM162037	Unpublished
<i>T. g. soussensis</i>	5465	MZD	(MO) Tnine de l'Ourika	D3	FM162037	Unpublished
<i>T. g. soussensis</i>	5466	MZD	(MO) Tnine de l'Ourika	D3	FM162037	Unpublished

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804 **Table A2.** Evaluation metrics for the ecological niche models of the five subspecies of
805 *T. graeca* in North Africa for the present time and for the biological and the non-
806 correlated climatic datasets. AUC and omission rate as assessed from Maxent (Phillips
807 et al. 2006). True skill statistic (TSS)(Allouche et al. 2006) uses the specificity and
808 sensitivity of the model. Sensitivity was calculated as 1-omission rate and specificity as
809 1 – predicted area (see Phillips et al. (2006) for further details). *cyren* = *T.g.cyrenaica*,
810 *graeca*=*T. g. graeca*, *marok* = *T. g. marokkensis*, *nabeul*= *T.g. nabeulensis*, *souss* = *T.*
811 *g. soussensis*.

	<i>cyren</i>	<i>graeca</i>	<i>marok</i>	<i>nabeul</i>	<i>souss</i>	Average
<i>Non-correlated dataset</i>						
AUC	0.935	0.785	0.856	0.866	0.867	0.862
Omission rate	0.170	0.288	0.173	0.189	0.267	0.217
Predicted area	0.116	0.333	0.247	0.243	0.181	0.224
Sensitivity	0.830	0.712	0.827	0.811	0.733	0.783
Specificity	0.884	0.667	0.753	0.757	0.819	0.776
TSS	0.714	0.378	0.580	0.568	0.552	0.558
<i>Biological dataset</i>						
AUC	0.946	0.792	0.845	0.869	0.844	0.859
Omission rate	0.100	0.338	0.177	0.183	0.198	0.199
Predicted area	0.115	0.281	0.272	0.254	0.256	0.236
Sensibility	0.900	0.663	0.823	0.817	0.802	0.801
Specificity	0.885	0.719	0.728	0.746	0.744	0.765
TSS	0.785	0.382	0.551	0.563	0.546	0.565

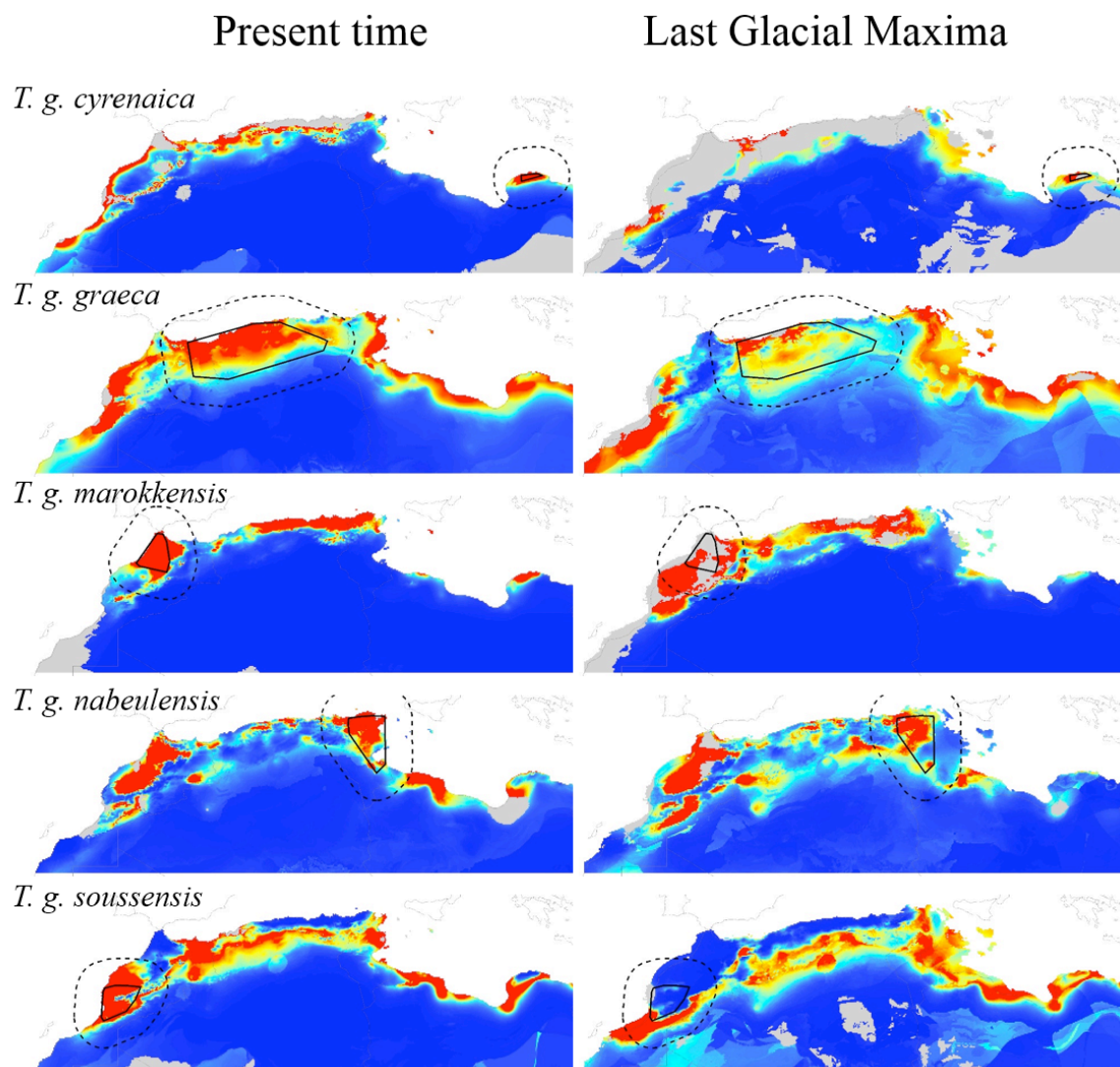
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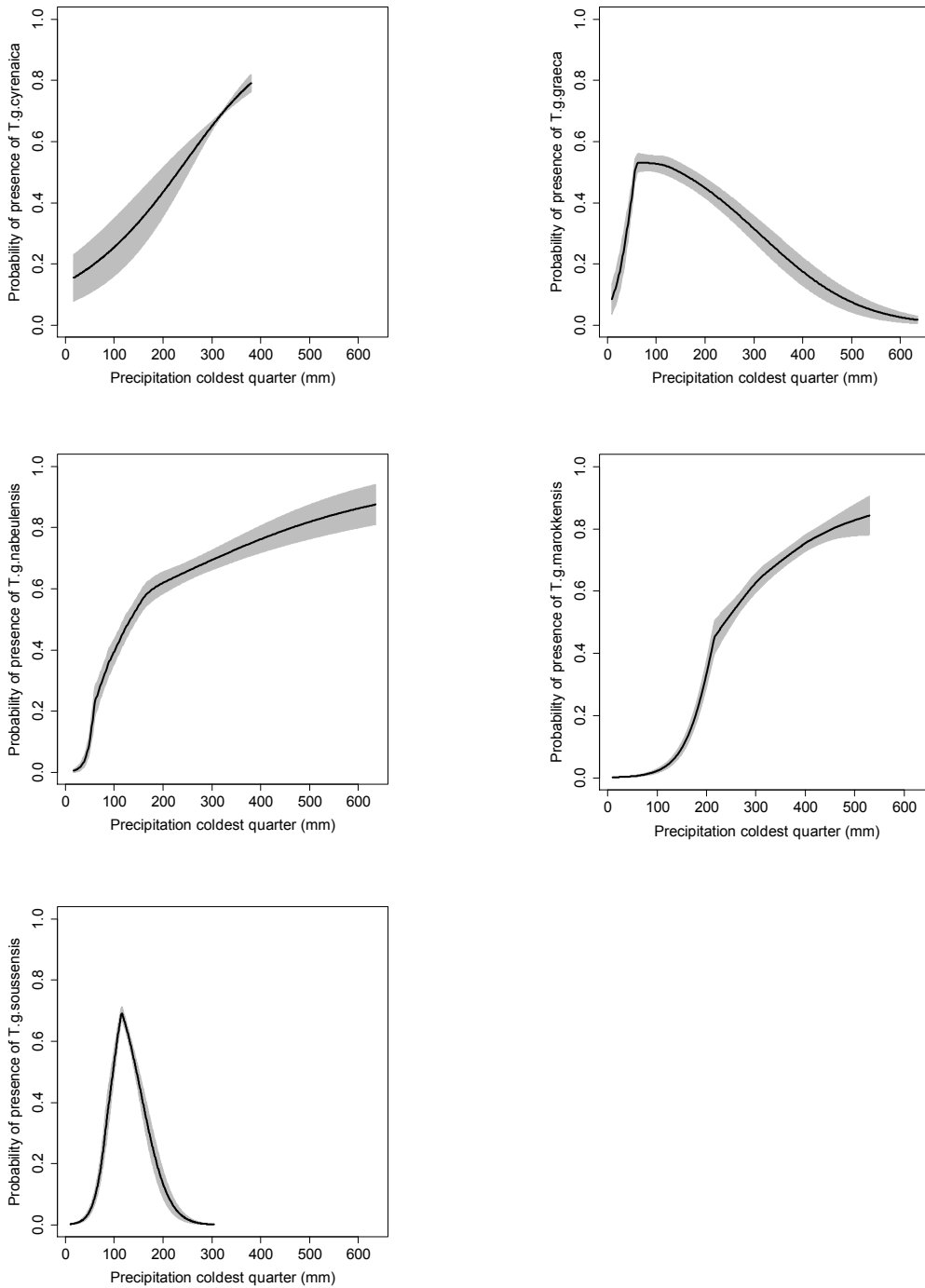
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 818 **Figure A1.** Consensus predictive distribution maps of the five subspecies of *T. graeca*
 819 in North Africa for the present time and the Last Glacial Maxima. Colder colors indicate
 820 low probability values of presence and warmer colors indicate high probability of
 821 presence. Areas in grey indicates non-analogous climates. The distribution of non-
 822 analogous climates was comprised by identified as those pixels where the difference
 823 between prediction values with and without clamping as assessed by Maxent is less than
 824 0.05. For each subspecies, the polygon on continuous line indicates the area enclosing
 825 location records assigned to the subspecies. Polygon on dotted line indicates the buffer
 826 area employed as training area for drawing pseudoabsences in Maxent (see Methods).
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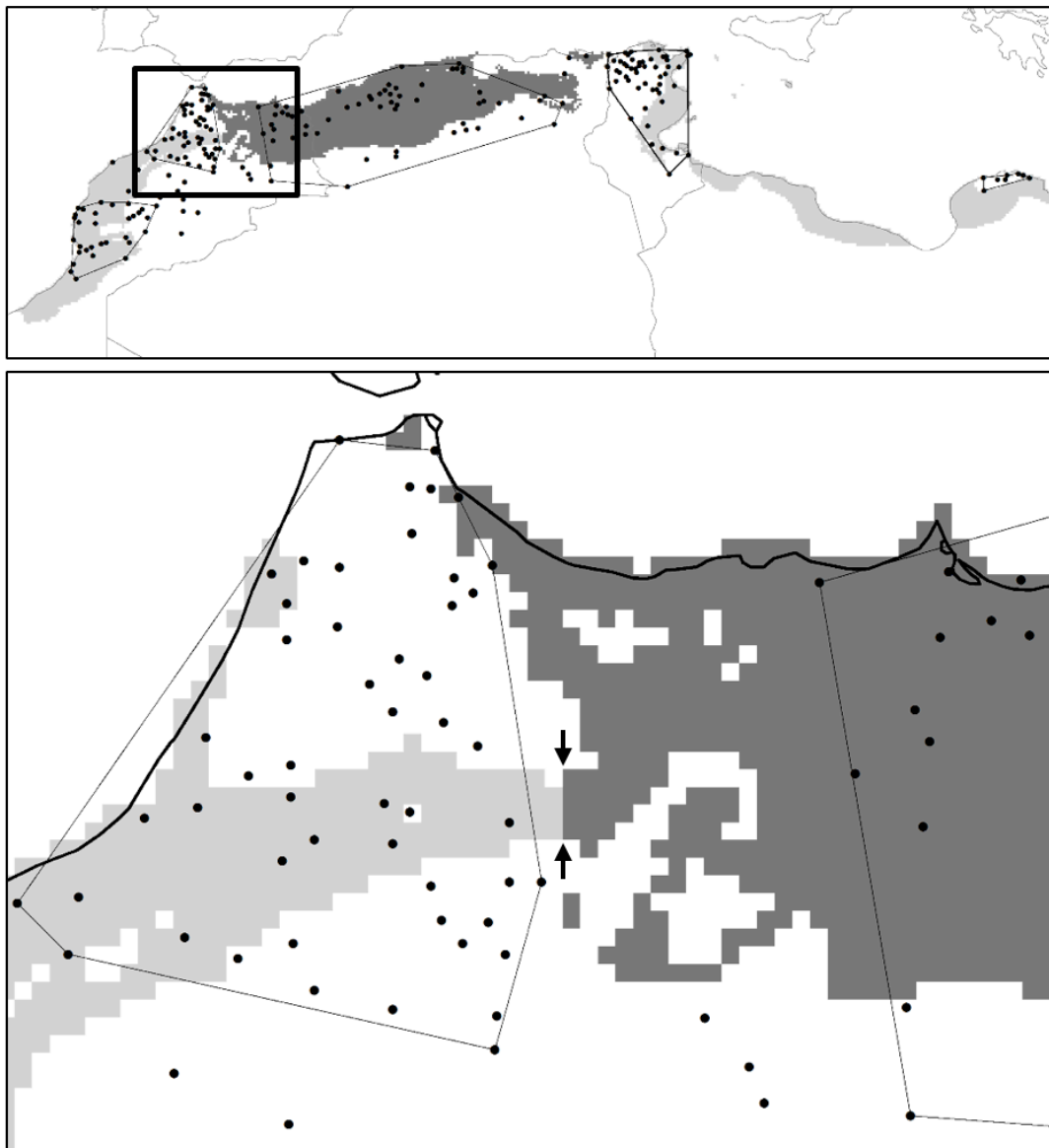
829 **Figure A2.** Response of the five subspecies of *T. graeca* to precipitation in the coldest
830 quarter (PCOLD_q) in mm. The curves show the mean response of the 100 replicate
831 Maxent runs and the mean +/- one standard deviation (grey).
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835 **Figure A3.** Delimitation between occupied and unoccupied suitable patches for *T. g.*
836 *graeca* in the present time. Top: Occupied and unoccupied suitable patches for *T. g.*
837 *graeca* in the entire study area. Bottom: Detail of the contact zone between the occupied
838 and unoccupied suitable areas. The limit of the suitable patch was set at the line of
839 weakest connection (lowest number of connecting pixels) between the two patches.
840 Dark grey: occupied suitable patch, light grey=unoccupied suitable patch, black dots
841 =occurrence of *T. graeca* (species level), polygons=MCP delimiting occurrence data
842 assigned to a single subspecies (see Methods section and Fig. 1 for details), black
843 arrows= limit between the occupied and unoccupied suitable patch for *T. g. graeca*.



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