

Appendix 1

Tables listing the climate variables from the WorldClim dataset used to model the distributions of species, and the sites visited and species recorded during the new field survey. The data from the new field survey were used to evaluate the species distribution models.

Table A1. Bioclimatic and altitude variables taken from the WorldClim ver. 1.4 dataset (Hijmans et al. 2005).

Altitude

Annual mean temperature

Mean diurnal range

Isothermality

Temperature seasonality

Maximum temperature of warmest month

Minimum temperature of coldest month

Temperature annual range

Mean temperature of wettest quarter

Mean temperature of driest quarter

Mean temperature of warmest quarter

Mean temperature of coldest quarter

Annual precipitation

Precipitation of wettest month

Precipitation of driest month

Precipitation seasonality

Precipitation of wettest quarter

Precipitation of driest quarter

Precipitation of warmest quarter

Precipitation of coldest quarter

Table A2. A list of the sites visited and their geographical coordinates. Sites where we performed repeat transects (fully-surveyed sites) and sites with incidental records are listed separately.

Site	Longitude	Latitude
Sites with replicate transects:		
Coast near Baltim	31.072	31.599
Farm near Rosetta	30.380	31.459
Farm south of Rosetta	30.453	31.380
Fruit farm	30.432	31.359
Farms near El Zarqa	31.700	31.265
Farms near Lake Manzala	31.800	31.251
Farms near Salamun	31.576	31.122
El Tina	32.290	31.041
Farms west of Ismailia	32.097	30.685
Wadi Bad'	32.252	29.727
Wadi Qena	31.862	29.548
Wadi Abu Fera'	31.726	29.477
Wadi Al Khalal	31.936	29.358
Wadi Abu Remth	31.948	29.211
Wadi Araba	32.075	28.955
Wadi Aldakhal	32.706	28.725
Wadi Abu Had	32.561	28.168
Wadi Abu Sliy	31.075	28.388
Western Desert near Samalut	30.549	28.402
North of Beni Hasan	30.881	27.954
Wadi Kid	34.168	28.351
Sites with incidental records:		
Wadi Natrun (lower)	30.169	30.447
Wadi Natrun (upper)	30.105	30.352
Wadi Shrayg	33.958	28.552
Wadi Arbaein	33.953	28.539
Wadi Itlah	33.933	28.570
Sheikh Mubarak (centre)	31.089	31.591
Landfill site	30.475	31.422
Coastal salt marshes near Baltim	30.376	31.462
Farm in Sheikh Mubarak	31.100	31.587
Near Damietta	31.392	31.428
West of Ismailia	32.096	30.685
Desert between Ain Sukhna and Wadi Qena	32.185	29.642
Matai	30.788	28.417

Table A3. A list of all species sampled during the new survey. More information, including taxonomic authorities, can be found for reptiles and amphibians in (Baha El Din 2006), for butterflies in (Larsen 1990) and for mammals in (Hoath 2003).

Reptiles and amphibians:

Acanthodactylus aegyptius
Acanthodactylus boskianus
Acanthodactylus scutellatus
Cerastes cerastes
Cerastes vipera
Chalcides ocellatus
Chamaeleo africanus
Chamaeleo chamaeleon
Eryx jaculus
Hemidactylus turcicus
Laukadia stellio
Malpolon monspessulanus
Mesalina guttulata
Naja haje
Natrix tessellata
Platycephalus florulentus
Psammophis schokari
Psammophis sibilans
Pseudotrapelus sinaitus
Ptychadena mascareniensis
Ptyodactylus guttatus
Ptyodactylus hasselquistii
Ptyodactylus siphonorhina
Rana bedriagae
Scincus scincus
Sphenops sepsoides
Stenodactylus stenodactylus
Tarentola annularis
Trachylepis vittata
Trapelus mutabilis
Varanus griseus

Butterflies:

Colias croceus
Danaus chrysippus
Euchloe aegyptiaca
Lampides boeticus
Leptotes pirithous
Pelopidas thrax
Pieris rapae
Pontia daplidice
Pontia glauconome
Vanessa atalanta
Vanessa cardui
Zizeeria karsandra

Mammals:

Asellia tridens
Capra nubiana
Felis chaus
Gazella dorcas
Gerbillus gerbillus
Hemiechinus auritus
Lepus capensis
Mus musculus
Rattus rattus
Rhinopoma hardwickii

References

- Baha El Din, S. 2006. A guide to the reptiles and amphibians of Egypt. – Am. Univ. in Cairo Press.
Hijmans, R. J. et al. 2005. Very high resolution interpolated climate surfaces for global land areas. – Int. J. Climatol. 25: 1965–1978.
Hoath, R. 2003. A field guide to the mammals of Egypt. – Am. Univ. in Cairo Press.
Larsen, T. B. 1990. The butterflies of Egypt. – Am. Univ. Press.