

CONTENTS

1. Introduction (P. H. Verner, J. Jeník)	5
2. Biogeographical setting (J. Jeník)	8
2.1. Geology and geomorphology	9
2.2. Climate	10
2.3. Position in biogeographical division	12
2.4. Vegetation and ecological maps	14
2.5. Human population	15
2.6. Conclusion	15
3. Environmental observations (J. Jeník, K. Otto)	16
3.1. Methods used	16
3.2. Results	18
3.2.1. Diversity of soils	18
3.2.2. Spatial and temporal variation of the microclimate	20
3.2.3. Vegetation cover	27
3.3. Evidence derived from environmental study	31
3.3.1. Peculiarities of the reserve	31
3.3.2. Environmental changes	32
3.3.3. Adverse ecological events?	32
4. Uganda kob and other large mammals	34
4.1. Zoological research (P. H. Verner, I. Hájek)	34
4.1.1. Literature	34
4.1.2. Methods	36
4.1.2.1. Study of Uganda kob population	37
4.1.2.2. Behaviour	37
4.1.2.3. Study of predators and predation	37
4.1.2.4. Poaching and cropping	38
4.1.3. Results and discussion	39
4.1.3.1. Uganda kob population study	39
4.1.3.2. Other large mammals	41
4.1.3.3. Medium sized mammals	44
4.1.3.4. Comparison of occurrence of large mammals species in Toro G. R. with other protected areas in East Africa	45
4.1.3.5. Behavioural notes	48
4.1.3.6. Predators and predation	48
4.1.3.7. Poaching and cropping	53
4.1.3.8. Hypotheses concerning the causes of decline of Uganda kob po- pulation	54

4.1.3.9. Prognosis of the future development of kob population	56
4.2. Veterinary examination of Uganda kob (I. Těšík)	61
4.3. Parasitological examination of Uganda kob (F. Dusbábek, M. Daniel)	62
4.3.1. Material	62
4.3.2. Field methods	62
4.3.3. Laboratory work	63
4.3.4. Results	63
5. Environmental parasitology with special regard to potential occurrence of natural foci of diseases (M. Daniel, F. Dusbábek)	65
5.1. Small mammals	65
5.1.1. <i>Chiroptera</i>	65
5.1.2. <i>Insectivora</i>	67
5.1.3. <i>Rodentia</i>	67
5.2. Parasitic arthropods	71
5.2.1. <i>Acarina</i>	71
5.2.2. <i>Siphonaptera</i>	75
5.2.3. <i>Diptera</i>	76
6. Faunistic observations	78
6.1. Ornithological observations (P. H. Verner)	78
6.2. Herpetological observations (I. Těšík, P. H. Verner)	82
6.3. Entomological observations (P. H. Verner)	82
7. Evaluation of the results (J. Jeník, P. H. Verner, I. Hájek)	87
7.1. Reiteration of the results	87
7.2. Discussion	93
7.3. Recommendations	95
Acknowledgements	99
Summary	101
Резюме	103
References	105
Plates (Figs. 25—47)	113
List of contributors	127