

CONTENTS

DEDICATION	vi
ABSTRACT	vii
<i>SECTION I</i>	1
INTRODUCTION	1
ACKNOWLEDGMENTS	2
AVAILABLE LOCALITY INFORMATION	2
ABBREVIATIONS	2
Specimen Institutional Identifications	2
Standard Dental Measurements and Ratios	3
Statistics	3
Tooth Abbreviations	3
SYSTEM OF MEASUREMENTS AND THEIR ABBREVIATIONS	3
TAXONOMIC HISTORY	8
<i>SECTION II</i>	15
SYSTEMATIC PALEONTOLOGY	15
<i>Centetodon</i> Marsh, 1872G	15
<i>Centetodon chadronensis</i> , new species	15
DESCRIPTION	16
DECIDUOUS TEETH AND ERUPTION SEQUENCE	16
PERMANENT TEETH AND MANDIBLE	17
Upper Incisors	17
Upper Canine and Premolars	20
<i>C1P1-2U</i>	20
<i>P3U</i>	21
<i>P4U</i>	22
Upper Molars	23
Lower Incisors	26
<i>I1-2L</i>	26
<i>I3L</i>	26
Lower Canine	26
Lower Premolars	27
<i>P1L</i>	27
<i>P2L</i>	27
<i>P3L</i>	28
<i>P4L</i>	29
Lower Molars	30
Mandible	30
Description	30
Comments on Mandible	31
GEOGRAPHICAL COMPARISONS	31

<i>Centetodon pulcher</i> , Marsh, 1872G	32
DESCRIPTION	32
P4U	32
Upper Molars	33
Lower Premolars, Canine, and Incisors	33
P3L	33
P4L	37
Lower Molars	37
Mandible	37
Comments	37
<i>Centetodon bembicophagus</i> , new species	38
DESCRIPTION	38
P4U	38
Upper Molars	38
Lower Canine and Premolars	40
Lower Molars	40
Mandible	40
GEOGRAPHICAL COMPARISON	40
<i>Centetodon aztecus</i> , new species	40
DESCRIPTION	43
P3U	43
P4U	45
Upper Molars	45
Lower Incisors	45
P1L	45
P4L	46
Lower Molars	46
<i>Centetodon hendryi</i> , new species	46
COMMENTS	46
DESCRIPTION	46
Upper Molars	46
Lower Incisors	46
P4L	46
Lower Molars	47
<i>Centetodon marginalis</i> (Cope, 1873CC)	47
DESCRIPTION	49
Upper Incisors, Canines, and Anterior Premolars	49
P4U	49
Upper Molars	49
Lower Incisors, Canines, and Anterior Premolars	49
P4L and Lower Molars	55
Mandible	55
<i>Centetodon magnus</i> (Clark, 1936)	55
INTRODUCTORY STATEMENTS	56

DESCRIPTION	58
Upper Molars	58
Posterior Lower Premolars and Lower Molars	58
Mandible	58
<i>Centetodon wolffi</i> (Macdonald, 1965)	58
INTRODUCTORY COMMENTS	58
COMPARISONS	61
P4U	61
Upper Molars	61
Lower Molar	61
Mandible	61
 SECTION III	 64
TRENDS IN DENTAL MEASUREMENTS AND PROPORTIONS	64
DENTAL DESCRIPTION OF <i>Ankyloodon</i>, AND ITS TAXONOMIC IMPLICATIONS	72
Introduction	72
Upper Dentition	73
<i>P3-4U</i>	73
<i>Upper Molars</i>	76
Lower Dentition	77
<i>Lower Incisors</i>	77
<i>Lower Canine</i>	77
<i>P1-2L</i>	77
<i>P3-4L</i>	78
<i>Lower Molars</i>	80
Mandible	80
RELATIONSHIPS AMONG <i>Ankyloodon</i>, <i>Centetodon</i>, AND <i>Geolabis rhyndaeus</i>	81
BIOLOGICAL ASPECTS OF <i>Centetodon</i>	84
Geographical and Ecological Ranges	84
Predator-prey Relationships	84
Sexual Dimorphism	84
Interpretations of Evolutionary History	85
<i>Miscellany Concerning Methodology</i>	85
<i>Phylogeny</i>	85
<i>General Discussion</i>	90
<i>Preliminary Assessment of Affinities</i>	90
 REFERENCES CITED	 94
Appendix 1	100
Appendix 2	106
Appendix 3	112