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SUPPLEMENTARY ONLINE MATERIAL FOR

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The first possible remingtonocetid from North America

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Supplementary Online Material

Table 1: List of specimens included in our Elliptic Fourier Analysis with associated specimen numbers, taxonomic identities, tooth identity, grouping used in Figure 2, and source of the photograph.

Table 2: Measurements (in mm) of premolars from small to moderately sized Remingtonocetidae, Protocetidae, and Basilosauridae.

References

Institutional abbreviations.—GSM, Georgia Southern Museum, Statesboro, Georgia; GSP-UM, Geological Survey of Pakistan-University of Michigan, Islamabad, Pakistan; IITR-SB, Indian Institute of Technology (Sunil Bajpai collection), Uttarakhand, India; KPG-M, Institut des Sciences de l'Evolution Paleontology collection, Montpellier, France; MNHN, Muséum national d'Histoire naturelle, Paris, France; MSNTUP I, Museo di Storia Naturale e del Territorio, Università di Pisa, Pisa, Italy; MUSM, Museo de Historia Natural, Universidad Nacional Mayor de San Marcos, Lima, Peru; SCSM, NSF, Naturmuseum Senckenberg, Frankfurt am Main; South Carolina State Museum, Columbia, South Carolina; SMNS, Staatliches Museum für Naturkunde, Stuttgart, UAM, University of Alabama Museum, Tuscaloosa, Alabama; UM, University of Michigan Museum of Paleontology, Ann Arbor MI; USNM, U.S. National Museum of Natural History, Washington, DC.

Table 1: List of specimens included in our Elliptic Fourier Analysis with associated specimen numbers, taxonomic identities, tooth identity, grouping used in Figure 2, and source of the photograph. Abbreviations: l, left; r, right.

Specimen	Identification	Tooth ID	Figure 2 group	Source
MSNTUP I-15459	<i>Aegyptocetus tarfa</i>	r p4	Protocetidae	Bianucci and Gingerich (2011)
IITR-SB 2723	<i>Andrewsiphium sloani</i>	r p4	Remingtonocetidae	Thewissen and Bajpai (2009)
MNHN.F.PRU10	<i>Cynthiacetus peruvianus</i>	l p2	Basilosauridae	Martínez-Cáceres et al. (2017)
MNHN.F.PRU10	<i>Cynthiacetus peruvianus</i>	l p3	Basilosauridae	Martínez-Cáceres et al. (2017)
MNHN.F.PRU10	<i>Cynthiacetus peruvianus</i>	l p4	Basilosauridae	Martínez-Cáceres et al. (2017)
MNHN.F.PRU10	<i>Cynthiacetus peruvianus</i>	l P3	Basilosauridae	Martínez-Cáceres et al. (2017)
MNHN.F.PRU10	<i>Cynthiacetus peruvianus</i>	l P4	Basilosauridae	Martínez-Cáceres et al. (2017)
MNHN.F.PRU10	<i>Cynthiacetus peruvianus</i>	r p3	Basilosauridae	Martínez-Cáceres et al. (2017)
MNHN.F.PRU10	<i>Cynthiacetus peruvianus</i>	r p4	Basilosauridae	Martínez-Cáceres et al. (2017)
IITR-SB 2521	<i>Dalanistes ahmedi</i>	l p3	Remingtonocetidae	J.G.M. Thewissen (unpublished data)
UM 101222	<i>Dorudon atrox</i>	r p4	Basilosauridae	Uhen (2004)
GSM 350	<i>Georgiacetus vogtlensis</i>	l P4	Protocetidae	Hulbert et al. (1998)
GSM 350	<i>Georgiacetus vogtlensis</i>	r P3	Protocetidae	Hulbert et al. (1998)
IITR-SB 2986	<i>Indocetus ramani</i>	l dp4	Protocetidae	J.G.M. Thewissen (unpublished data)
IITR-SB 40001	<i>Indocetus ramani</i>	r P3	Protocetidae	J.G.M. Thewissen (unpublished data)
IITR-SB 40001	<i>Indocetus ramani</i>	r P4	Protocetidae	J.G.M. Thewissen (unpublished data)
IITR-SB 3189	<i>Kharodacetus sahnii</i>	l p2	Protocetidae	J.G.M. Thewissen (unpublished data)
IITR-SB 3189	<i>Kharodacetus sahnii</i>	l p3	Protocetidae	J.G.M. Thewissen (unpublished data)
USNM 449550	Remingtonocetidae indet.	unknown	unknown	M.D. Uhen (unpublished data)
IITR-SB 2630	<i>Remingtonocetus harudiensis</i>	r P4	Remingtonocetidae	J.G.M. Thewissen (unpublished data)
GSP-UM 3325	<i>Remingtonocetus domandaensis</i>	r p2	Remingtonocetidae	Gingerich et al. (2001)
GSP-UM 3325	<i>Remingtonocetus domandaensis</i>	r p3	Remingtonocetidae	Gingerich et al. (2001)
GSP-UM 3325	<i>Remingtonocetus domandaensis</i>	r p4	Remingtonocetidae	Gingerich et al. (2001)
IITR-SB 2770	<i>Remingtonocetus harudiensis</i>	r p3	Remingtonocetidae	Bajpai et al. (2011)
IITR-SB 2770	<i>Remingtonocetus harudiensis</i>	r p4	Remingtonocetidae	Bajpai et al. (2011)
IITR-SB 2592	<i>Remingtonocetus harudiensis</i>	r p3	Remingtonocetidae	J.G.M. Thewissen (unpublished data)
USNM 11962	<i>Zygorhiza kochii</i>	r P2	Basilosauridae	C.M. Peredo (unpublished data)
SCSM 87.195	<i>Chrysocetus healyorum</i>	r p3	Basilosauridae	M.D. Uhen (unpublished data)
SCSM 87.195	<i>Chrysocetus healyorum</i>	r P3	Basilosauridae	M.D. Uhen (unpublished data)
UM 101222	<i>Dorudon atrox</i>	r p3	Basilosauridae	M.D. Uhen (unpublished data)
UAM PV 2005.008.001	<i>Georgiacetus vogtlensis</i>	r p2	Protocetidae	M.D. Uhen (unpublished data)
UAM PV 2005.008.001	<i>Georgiacetus vogtlensis</i>	r p3	Protocetidae	M.D. Uhen (unpublished data)
UAM PV 2001.0001.0001	<i>Zygorhiza kochii</i>	r p3	Basilosauridae	M.D. Uhen (unpublished data)
KPG-M 10	<i>Togocetus traversei</i>	dp4	Protocetidae	M.D. Uhen (unpublished data)
KPG-M 16	<i>Togocetus traversei</i>	dp2	Protocetidae	M.D. Uhen (unpublished data)
KPG-M 23	<i>Togocetus traversei</i>	dp4	Protocetidae	M.D. Uhen (unpublished data)
KPG-M 133	<i>Togocetus traversei</i>	dp3	Protocetidae	M.D. Uhen (unpublished data)

Table 2: Measurements (in mm) of premolars from small to moderately sized Remingtonocetidae, Protocetidae, and Basilosauridae. Larger species have been omitted. All known protocetid and remingtonocetid specimens are included, along with exemplar basilosaurids for which many specimens are known, particularly *Dorudon atrox* and *Zygorhiza kochii*. All estimates and measurements from worn teeth were omitted. Note that among the second to fourth premolars, only the remingtonocetids and two deciduous teeth of *Togocetus traversei* have widths less than 10 mm, in the range of the width of USNM 449550. Abbreviations: l, left; r, right.

Museum	Specimen	Family	Genus	Species	Tooth	Length	Width	Height	References
UM	94814	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	l dP1	28.0			Uhen (2004)
UM	94814	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	r dP1	26.0	11.4	35.0	Uhen (2004)
UM	94814	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	l dP2	43.5			Uhen (2004)
NHML	21896	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	r dP2	33.3	11.4	22.7	Uhen (2004)
UM	83902	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	l dP3	58.7	11.4	27.2	Uhen (2004)
UM	83902	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	r dP3	58.2	11.3	26.3	Uhen (2004)
UM	94814	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	l dP4	56.1	10.7	27.0	Uhen (2004)
SMNS	UnI	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	r dP4	56.3	12.0		Uhen (2004)
UM	94814	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	l dp1	28.0			Uhen (2004)
UM	94814	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	r dp1	26.0	11.4	35.0	Uhen (2004)
UM	83902	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	l dp2	38.7	9.5	21.5	Uhen (2004)
SMNS	UnI	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	r dp2	35.9	11.0		Uhen (2004)
UM	83902	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	l dp3	58.7	11.4	27.2	Uhen (2004)
UM	83902	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	r dp3	58.2	11.3	26.3	Uhen (2004)
UM	94814	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	l dp4	56.1	10.7	27.0	Uhen (2004)
UM	83902	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	r dp4	56.3	12.0		Uhen (2004)
NSFM	4451	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	l P1	21.7			Uhen (2004)
NSFM	4451	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	r P1	22.1		9.3	Uhen (2004)
NSFM	4451	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	l P2	51.7	14.1	32.5	Uhen (2004)
NSFM	4451	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	r P2	51.7	13.5	27.7	Uhen (2004)
NSFM	4451	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	l P3	42.6	13.4		Uhen (2004)
NSFM	4451	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	r P3	47.9	14.7	11.8	Uhen (2004)
NSFM	4451	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	l P4	43.0	13.6	26.4	Uhen (2004)
NSFM	4451	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	r P4	43.3	13.8	24.7	Uhen (2004)
NSFM	4451	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	l p1	34.1	15.4	29.0	Uhen (2004)
UM	101215	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	r p1	34.0	13.1	25.2	Uhen (2004)
NSFM	4451	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	l p2	46.2	14.4	30.3	Uhen (2004)
UM	101215	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	r p2	48.9	13.8		Uhen (2004)
NSFM	4451	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	l p3	60.2	15.5	19.7	Uhen (2004)
UM	101215	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	r p3	61.9	14.5		Uhen (2004)
NSFM	4451	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	l p4	53.0	15.3	38.2	Uhen (2004)
UM	101215	Basilosauridae	<i>Dorudon</i>	<i>atrox</i>	r p4	53.6	14.6		Uhen (2004)
USNM	11962	Basilosauridae	<i>Zygorhiza</i>	<i>kochii</i>	r P4	45.0			Kellogg (1936)
USNM	11962	Basilosauridae	<i>Zygorhiza</i>	<i>kochii</i>	l P4	42.8	20.7	31.8	Kellogg (1936)
USNM	11962	Basilosauridae	<i>Zygorhiza</i>	<i>kochii</i>	r P3	50.5			Kellogg (1936)
USNM	11962	Basilosauridae	<i>Zygorhiza</i>	<i>kochii</i>	l P3	49.0	21.8	39.6	Kellogg (1936)
USNM	11962	Basilosauridae	<i>Zygorhiza</i>	<i>kochii</i>	l P2	53.8	14.7	42.0	Kellogg (1936)

Museum	Specimen	Family	Genus	Species	Tooth	Length	Width	Height	References
USNM	11962	Basilosauridae	<i>Zygorhiza</i>	<i>kochii</i>	l P1	32.3	13.0	33.7	Kellogg (1936)
USNM	11962	Basilosauridae	<i>Zygorhiza</i>	<i>kochii</i>	r p4	56.7	16.6	47.3	Kellogg (1936)
USNM	11962	Basilosauridae	<i>Zygorhiza</i>	<i>kochii</i>	l p4	56.2	16.8	45.2	Kellogg (1936)
USNM	11962	Basilosauridae	<i>Zygorhiza</i>	<i>kochii</i>	l p3	55.0	14.7	44.8	Kellogg (1936)
USNM	11962	Basilosauridae	<i>Zygorhiza</i>	<i>kochii</i>	r p2	46.8	13.3	35.6	Kellogg (1936)
USNM	11962	Basilosauridae	<i>Zygorhiza</i>	<i>kochii</i>	l p2	45.2	13.3	35.0	Kellogg (1936)
USNM	11962	Basilosauridae	<i>Zygorhiza</i>	<i>kochii</i>	r p1	22.4	12.5	26.8	Kellogg (1936)
USNM	11962	Basilosauridae	<i>Zygorhiza</i>	<i>kochii</i>	l p1	22.5	12.8	29.2	Kellogg (1936)
UAM PV	2000.11	Basilosauridae	<i>Zygorhiza</i>	<i>kochii</i>	r P1	33.0	11.9	21.7	M.D. Uhen measurements (unpublished data)
UAM PV	2000.11	Basilosauridae	<i>Zygorhiza</i>	<i>kochii</i>	l P1	31.8	12.9	23.4	M.D. Uhen measurements (unpublished data)
UAM PV	2000.11	Basilosauridae	<i>Zygorhiza</i>	<i>kochii</i>	r P2		13.0	23.7	M.D. Uhen measurements (unpublished data)
UAM PV	2000.11	Basilosauridae	<i>Zygorhiza</i>	<i>kochii</i>	l P2	57.2	13.0	21.9	M.D. Uhen measurements (unpublished data)
UAM PV	2000.11	Basilosauridae	<i>Zygorhiza</i>	<i>kochii</i>	r P3	51.4	14.9	21.9	M.D. Uhen measurements (unpublished data)
UAM PV	2000.11	Basilosauridae	<i>Zygorhiza</i>	<i>kochii</i>	l P3			23.5	M.D. Uhen measurements (unpublished data)
UAM PV	2000.11	Basilosauridae	<i>Zygorhiza</i>	<i>kochii</i>	r P4	41.0	14.2	20.2	M.D. Uhen measurements (unpublished data)
UAM PV	2000.11	Basilosauridae	<i>Zygorhiza</i>	<i>kochii</i>	l P4	43.1	13.8	19.6	M.D. Uhen measurements (unpublished data)
UAM PV	2000.11	Basilosauridae	<i>Zygorhiza</i>	<i>kochii</i>	r p1	23.8	11.4	19.4	M.D. Uhen measurements (unpublished data)
UAM PV	2000.11	Basilosauridae	<i>Zygorhiza</i>	<i>kochii</i>	l p1	23.6	11.4		M.D. Uhen measurements (unpublished data)
UAM PV	2000.11	Basilosauridae	<i>Zygorhiza</i>	<i>kochii</i>	r p2	41.1	11.7	23.1	M.D. Uhen measurements (unpublished data)
UAM PV	2000.11	Basilosauridae	<i>Zygorhiza</i>	<i>kochii</i>	r p3	53.9	13.6	29.6	M.D. Uhen measurements (unpublished data)
UAM PV	2000.11	Basilosauridae	<i>Zygorhiza</i>	<i>kochii</i>	l p3		13.9	34.8	M.D. Uhen measurements (unpublished data)
UAM PV	2000.11	Basilosauridae	<i>Zygorhiza</i>	<i>kochii</i>	r p4	56.8			M.D. Uhen measurements (unpublished data)
UAM PV	2000.11	Basilosauridae	<i>Zygorhiza</i>	<i>kochii</i>	l p4	54.0	13.7		M.D. Uhen measurements (unpublished data)
SCSM	87.195	Basilosauridae	<i>Chrysoctetus</i>	<i>healyorum</i>	l P1	22.2	11.7	26.4	Uhen and Gingerich (2001)
SCSM	87.195	Basilosauridae	<i>Chrysoctetus</i>	<i>healyorum</i>	r P1	22.1	12.3		Uhen and Gingerich (2001)
SCSM	87.195	Basilosauridae	<i>Chrysoctetus</i>	<i>healyorum</i>	l P2		12.1	27.8	Uhen and Gingerich (2001)
SCSM	87.195	Basilosauridae	<i>Chrysoctetus</i>	<i>healyorum</i>	r P2	41.6	12.0	29.0	Uhen and Gingerich (2001)
SCSM	87.195	Basilosauridae	<i>Chrysoctetus</i>	<i>healyorum</i>	l P3	46.7	13.2	29.0	Uhen and Gingerich (2001)
SCSM	87.195	Basilosauridae	<i>Chrysoctetus</i>	<i>healyorum</i>	l P4	38.0	11.0		Uhen and Gingerich (2001)
SCSM	87.195	Basilosauridae	<i>Chrysoctetus</i>	<i>healyorum</i>	r p3	49.3	11.8	32.0	Uhen and Gingerich (2001)
FSAC	Bouj-1	Basilosauridae	<i>Chrysoctetus</i>	<i>fouadassii</i>	l p4	47.2	13.2	28.6	(Gingerich and Zouhri 2015)
NHML	10228	Basilosauridae	<i>Saghacetus</i>	<i>osiris</i>	r P1	27.1	16.8		M.D. Uhen measurements (unpublished data)
NHML	10228	Basilosauridae	<i>Saghacetus</i>	<i>osiris</i>	l P1	26.4			M.D. Uhen measurements (unpublished data)
NHML	10228	Basilosauridae	<i>Saghacetus</i>	<i>osiris</i>	r P2	42.5	13.7		M.D. Uhen measurements (unpublished data)
NHML	10228	Basilosauridae	<i>Saghacetus</i>	<i>osiris</i>	l P2	47.8			M.D. Uhen measurements (unpublished data)
NHML	10228	Basilosauridae	<i>Saghacetus</i>	<i>osiris</i>	r P3		15.1		M.D. Uhen measurements (unpublished data)
NHML	10228	Basilosauridae	<i>Saghacetus</i>	<i>osiris</i>	l P3	50.4			M.D. Uhen measurements (unpublished data)
NHML	10228	Basilosauridae	<i>Saghacetus</i>	<i>osiris</i>	r P4		16.5		M.D. Uhen measurements (unpublished data)
H-GSP	96232	Remingtonocetidae	<i>Attockicetus</i>	<i>praecursor</i>	P3	28.9	10.4		Thewissen and Hussain (2000)
H-GSP	96232	Remingtonocetidae	<i>Attockicetus</i>	<i>praecursor</i>	P4	26.2			Thewissen and Hussain (2000)
IITR-SB	2521	Remingtonocetidae	<i>Dalanistes</i>	<i>ahmedi</i>	p2	45.0	14.0		Thewissen and Bajpai (2001)
IITR-SB	2521	Remingtonocetidae	<i>Dalanistes</i>	<i>ahmedi</i>	p3	58.0	14.0		Thewissen and Bajpai (2001)

Museum	Specimen	Family	Genus	Species	Tooth	Length	Width	Height	References
IITR-SB	2521	Remingtonocetidae	<i>Dalanistes</i>	<i>ahmedi</i>	p4	46.0	18.0		Thewissen and Bajpai (2001)
IITR-SB	2647	Remingtonocetidae	<i>Kutchicetus</i>	<i>minimus</i>	P3		7.2		Bajpai and Thewissen (2000)
GSP-UM	3225	Remingtonocetidae	<i>Remingtonocetus</i>	<i>domandaensis</i>	P1	20.0	6.8		Gingerich et al. (2001)
GSP-UM	3225	Remingtonocetidae	<i>Remingtonocetus</i>	<i>domandaensis</i>	p1	16.6	6.7	17.2	Gingerich et al. (2001)
GSP-UM	3225	Remingtonocetidae	<i>Remingtonocetus</i>	<i>domandaensis</i>	p2	34.2	7.4	19.5	Gingerich et al. (2001)
GSP-UM	3225	Remingtonocetidae	<i>Remingtonocetus</i>	<i>domandaensis</i>	p3	46.5	8.4	23.0	Gingerich et al. (2001)
GSP-UM	3225	Remingtonocetidae	<i>Remingtonocetus</i>	<i>domandaensis</i>	p4	46.3	11.3	27.0	Gingerich et al. (2001)
IITR-SB	2770	Remingtonocetidae	<i>Remingtonocetus</i>	<i>harudiensis</i>	l P1	19.0	5.0		Bajpai et al. (2011)
IITR-SB	2770	Remingtonocetidae	<i>Remingtonocetus</i>	<i>harudiensis</i>	r P2	38.0	5.0		Bajpai et al. (2011)
IITR-SB	2770	Remingtonocetidae	<i>Remingtonocetus</i>	<i>harudiensis</i>	l P2	36.0	6.0		Bajpai et al. (2011)
IITR-SB	2770	Remingtonocetidae	<i>Remingtonocetus</i>	<i>harudiensis</i>	r P3	39.0	7.0		Bajpai et al. (2011)
IITR-SB	2770	Remingtonocetidae	<i>Remingtonocetus</i>	<i>harudiensis</i>	l P3	39.0	7.0		Bajpai et al. (2011)
IITR-SB	2770	Remingtonocetidae	<i>Remingtonocetus</i>	<i>harudiensis</i>	r P4	28.0	12.0		Bajpai et al. (2011)
IITR-SB	2770	Remingtonocetidae	<i>Remingtonocetus</i>	<i>harudiensis</i>	l P4	31.0	11.0		Bajpai et al. (2011)
CGM	60584	Protocetidae	<i>Aegicetus</i>	<i>gehennae</i>	P1	39.0	15.7	27.7	Gingerich et al. (2019)
CGM	60584	Protocetidae	<i>Aegicetus</i>	<i>gehennae</i>	P2	49.0		25.1	Gingerich et al. (2019)
CGM	60584	Protocetidae	<i>Aegicetus</i>	<i>gehennae</i>	P3	42.1	25.3		Gingerich et al. (2019)
CGM	60584	Protocetidae	<i>Aegicetus</i>	<i>gehennae</i>	P4	40.0	26.3	27.6	Gingerich et al. (2019)
CGM	60584	Protocetidae	<i>Aegicetus</i>	<i>gehennae</i>	p4	49.8	18.3		Gingerich et al. (2019)
MSNTUP I	15459	Protocetidae	<i>Aegyptocetus</i>	<i>tarfa</i>	P1	20.6	11.7		Bianucci and Gingerich (2011)
MSNTUP I	15459	Protocetidae	<i>Aegyptocetus</i>	<i>tarfa</i>	P2	40.0	15.2		Bianucci and Gingerich (2011)
MSNTUP I	15459	Protocetidae	<i>Aegyptocetus</i>	<i>tarfa</i>	P3	37.0	21.5		Bianucci and Gingerich (2011)
MSNTUP I	15459	Protocetidae	<i>Aegyptocetus</i>	<i>tarfa</i>	P4	33.3	24.5		Bianucci and Gingerich (2011)
MSNTUP I	15459	Protocetidae	<i>Aegyptocetus</i>	<i>tarfa</i>	p1	18.2	10.6		Bianucci and Gingerich (2011)
MSNTUP I	15459	Protocetidae	<i>Aegyptocetus</i>	<i>tarfa</i>	p2	34.6	14.0		Bianucci and Gingerich (2011)
MSNTUP I	15459	Protocetidae	<i>Aegyptocetus</i>	<i>tarfa</i>	p3	46.4	16.0	33.7	Bianucci and Gingerich (2011)
MSNTUP I	15459	Protocetidae	<i>Aegyptocetus</i>	<i>tarfa</i>	p4	39.4	15.8		Bianucci and Gingerich (2011)
GSP-UM	3005	Protocetidae	<i>Babiacetus</i>	<i>indicus</i>	P1	36.7	17.0	22.1	Gingerich et al. (1995a)
GSP-UM	3005	Protocetidae	<i>Babiacetus</i>	<i>indicus</i>	P2	41.7			Gingerich et al. (1995a)
GSP-UM	3005	Protocetidae	<i>Babiacetus</i>	<i>indicus</i>	P3	43.8	23.0	25.6	Gingerich et al. (1995a)
GSP-UM	3005	Protocetidae	<i>Babiacetus</i>	<i>indicus</i>	P4	36.8	25.6	25.6	Gingerich et al. (1995a)
GSP-UM	3005	Protocetidae	<i>Babiacetus</i>	<i>indicus</i>	p1	35.7	15.0		Gingerich et al. (1995a)
GSP-UM	3005	Protocetidae	<i>Babiacetus</i>	<i>indicus</i>	p2	40.1	17.5	27.0	Gingerich et al. (1995a)
GSP-UM	3005	Protocetidae	<i>Babiacetus</i>	<i>indicus</i>	p3	44.0	19.3		Gingerich et al. (1995a)
GSP-UM	3005	Protocetidae	<i>Babiacetus</i>	<i>indicus</i>	p4	49.5	18.2		Gingerich et al. (1995a)
IITR-SB	2512	Protocetidae	<i>Babiacetus</i>	<i>mishrai</i>	r p2	41.8	14.9		Bajpai and Thewissen (2014)
IITR-SB	2512	Protocetidae	<i>Babiacetus</i>	<i>mishrai</i>	r p3	53.2	15.6		Bajpai and Thewissen (2014)
IITR-SB	2512	Protocetidae	<i>Babiacetus</i>	<i>mishrai</i>	r p4	42.3			Bajpai and Thewissen (2014)
USNM	392014	Protocetidae	<i>Cretatocetus</i>	<i>rayi</i>	l p4	53.0	15.0		McLeod and Barnes (2008)
IITR-SB	2870	Protocetidae	<i>Dhedacetus</i>	<i>hyaeni</i>	l P1	22.4	10.5		Bajpai and Thewissen (2014)
IITR-SB	2870	Protocetidae	<i>Dhedacetus</i>	<i>hyaeni</i>	r P2	34.1	11.9		Bajpai and Thewissen (2014)
IITR-SB	2870	Protocetidae	<i>Dhedacetus</i>	<i>hyaeni</i>	l P3	33.1	15.0		Bajpai and Thewissen (2014)

Museum	Specimen	Family	Genus	Species	Tooth	Length	Width	Height	References
GSM	350	Protocetidae	<i>Georgiacetus</i>	<i>vogtlensis</i>	P1	27.7	12.9		Hulbert et al. (1998)
GSM	350	Protocetidae	<i>Georgiacetus</i>	<i>vogtlensis</i>	P2	47.3	18.0		Hulbert et al. (1998)
GSM	350	Protocetidae	<i>Georgiacetus</i>	<i>vogtlensis</i>	P3	44.0	25.5		Hulbert et al. (1998)
GSM	350	Protocetidae	<i>Georgiacetus</i>	<i>vogtlensis</i>	P4	39.7	24.0		Hulbert et al. (1998)
GSM	350	Protocetidae	<i>Georgiacetus</i>	<i>vogtlensis</i>	p1	24.0	11.8		Hulbert et al. (1998)
LUVP	11034	Protocetidae	<i>Indocetus</i>	<i>ramani</i>	P4	21.5			Bajpai and Thewissen (2014)
IITR-SB	2000-33	Protocetidae	<i>Indocetus</i>	<i>ramani</i>	dp3	40.8	13.3		Bajpai and Thewissen (2014)
IITR-SB	2000-33	Protocetidae	<i>Indocetus</i>	<i>ramani</i>	dp4	43.8	12.7		Bajpai and Thewissen (2014)
IITR-SB	2986	Protocetidae	<i>Indocetus</i>	<i>ramani</i>	dp4	45.9	10.9		Bajpai and Thewissen (2014)
IITR-SB	2986	Protocetidae	<i>Indocetus</i>	<i>ramani</i>	P3	34.4			Bajpai and Thewissen (2014)
IITR-SB	2986	Protocetidae	<i>Indocetus</i>	<i>ramani</i>	P4	29.8	22.3		Bajpai and Thewissen 2014
IITR-SB	4001	Protocetidae	<i>Indocetus</i>	<i>ramani</i>	P3	33.4	17.9		Bajpai and Thewissen 2014
IITR-SB	4001	Protocetidae	<i>Indocetus</i>	<i>ramani</i>	P4	28.5	22.2		Bajpai and Thewissen (2014)
IITR-SB	3189	Protocetidae	<i>Kharodacetus</i>	<i>sahnii</i>	l p2	48.4	16.7		Bajpai and Thewissen (2014)
IITR-SB	3189	Protocetidae	<i>Kharodacetus</i>	<i>sahnii</i>	r p2		16.9		Bajpai and Thewissen (2014)
IITR-SB	3189	Protocetidae	<i>Kharodacetus</i>	<i>sahnii</i>	r p3	55.8	22.2		Bajpai and Thewissen (2014)
IITR-SB	3189	Protocetidae	<i>Kharodacetus</i>	<i>sahnii</i>	l p3	53.8	18.3		Bajpai and Thewissen (2014)
IITR-SB	3189	Protocetidae	<i>Kharodacetus</i>	<i>sahnii</i>	r p4	58.7	23.3		Bajpai and Thewissen (2014)
IITR-SB	3189	Protocetidae	<i>Kharodacetus</i>	<i>sahnii</i>	l p4	55.0	19.2		Bajpai and Thewissen (2014)
IITR-SB	5029	Protocetidae	<i>Kharodacetus</i>	<i>sahnii</i>	p4	57.4	18.1		Bajpai and Thewissen (2014)
IITR-SB	3189	Protocetidae	<i>Kharodacetus</i>	<i>sahnii</i>	r P1	32.7	14.8		Bajpai and Thewissen (2014)
IITR-SB	3189	Protocetidae	<i>Kharodacetus</i>	<i>sahnii</i>	l P1		14.2		Bajpai and Thewissen (2014)
IITR-SB	3189	Protocetidae	<i>Kharodacetus</i>	<i>sahnii</i>	r P2	49.4	17.9		Bajpai and Thewissen (2014)
IITR-SB	3189	Protocetidae	<i>Kharodacetus</i>	<i>sahnii</i>	l P2	45.5	17.6		Bajpai and Thewissen (2014)
IITR-SB	3189	Protocetidae	<i>Kharodacetus</i>	<i>sahnii</i>	r P3	45.7	21.1		Bajpai and Thewissen (2014)
IITR-SB	3189	Protocetidae	<i>Kharodacetus</i>	<i>sahnii</i>	r P4	40.1			Bajpai and Thewissen (2014)
IITR-SB	3189	Protocetidae	<i>Kharodacetus</i>	<i>sahnii</i>	l P4	39.5	33.7		Bajpai and Thewissen (2014)
GSP-UM	3475a	Protocetidae	<i>Maiacetus</i>	<i>inuus</i>	r P1	16.8	7.8	16.1	Gingerich et al. 2009
GSP-UM	3475a	Protocetidae	<i>Maiacetus</i>	<i>inuus</i>	r P2	28.6			Gingerich et al. (2009)
GSP-UM	3475a	Protocetidae	<i>Maiacetus</i>	<i>inuus</i>	r P3	28.7			Gingerich et al. (2009)
GSP-UM	3475a	Protocetidae	<i>Maiacetus</i>	<i>inuus</i>	r P4	25.5			Gingerich et al. (2009)
GSP-UM	3475a	Protocetidae	<i>Maiacetus</i>	<i>inuus</i>	l p1	15.7	8.7	14.1	Gingerich et al. (2009)
GSP-UM	3475a	Protocetidae	<i>Maiacetus</i>	<i>inuus</i>	l p2	28.3			Gingerich et al. (2009)
GSP-UM	3475a	Protocetidae	<i>Maiacetus</i>	<i>inuus</i>	l p3		11.6		Gingerich et al. (2009)
GSP-UM	3551	Protocetidae	<i>Maiacetus</i>	<i>inuus</i>	r P1	16.2	9.0	17.1	Gingerich et al. (2009)
GSP-UM	3551	Protocetidae	<i>Maiacetus</i>	<i>inuus</i>	r P2	29.0	12.7	27.3	Gingerich et al. (2009)
GSP-UM	3551	Protocetidae	<i>Maiacetus</i>	<i>inuus</i>	r P3	33.8	16.4	25.0	Gingerich et al. (2009)
GSP-UM	3551	Protocetidae	<i>Maiacetus</i>	<i>inuus</i>	r P4	25.6	20.2	23.7	Gingerich et al. (2009)
GSP-UM	3551	Protocetidae	<i>Maiacetus</i>	<i>inuus</i>	l p2	29.0	11.4	27.6	Gingerich et al. (2009)
GSP-UM	3551	Protocetidae	<i>Maiacetus</i>	<i>inuus</i>	l p3		12.1	304.0	Gingerich et al. (2009)
GSP-UM	3551	Protocetidae	<i>Maiacetus</i>	<i>inuus</i>	l p4	33.2	12.2	30.3	Gingerich et al. (2009)
NHML	11414	Protocetidae	<i>Pappocetus</i>	<i>lugardi</i>	l dp2	36.9	12.4		M.D. Uhen measurements (unpublished data)

Museum	Specimen	Family	Genus	Species	Tooth	Length	Width	Height	References
NHML	11414	Protocetidae	<i>Pappocetus</i>	<i>lugardi</i>	l dp3		14.5	14.8	M.D. Uhen measurements (unpublished data)
MUSM	3580	Protocetidae	<i>Peregocetus</i>	<i>pacificus</i>	p1	21.7	13.1		Lambert et al. (2019)
MUSM	3580	Protocetidae	<i>Peregocetus</i>	<i>pacificus</i>	p2	43.5	16.3		Lambert et al. (2019)
MUSM	3580	Protocetidae	<i>Peregocetus</i>	<i>pacificus</i>	p3	51.7	19.3		Lambert et al. (2019)
MUSM	3580	Protocetidae	<i>Peregocetus</i>	<i>pacificus</i>	p4	48.0	18.2		Lambert et al. (2019)
SMNS	11085	Protocetidae	<i>Protocetus</i>	<i>atavus</i>	r P1		9.4		M.D. Uhen measurements (unpublished data)
SMNS	11085	Protocetidae	<i>Protocetus</i>	<i>atavus</i>	r P2	33.1			M.D. Uhen measurements (unpublished data)
SMNS	11085	Protocetidae	<i>Protocetus</i>	<i>atavus</i>	r P3	35.5	13.9	15.7	M.D. Uhen measurements (unpublished data)
SMNS	11085	Protocetidae	<i>Protocetus</i>	<i>atavus</i>	r P4		17.7	14.9	M.D. Uhen measurements (unpublished data)
SMNS	11085	Protocetidae	<i>Protocetus</i>	<i>atavus</i>	l P2	34.1	11.0		M.D. Uhen measurements (unpublished data)
SMNS	11085	Protocetidae	<i>Protocetus</i>	<i>atavus</i>	l P4			16.4	M.D. Uhen measurements (unpublished data)
GSP-UM	3012	Protocetidae	<i>Rodhocetus</i>	<i>kasranii</i>	P2	35.5			Gingerich et al. (1995b)
GSP-UM	3316	Protocetidae	<i>Qaisracetus</i>	<i>arifi</i>	P4	27.5	23.1		Gingerich et al. (2001)
GSP-UM	3012	Protocetidae	<i>Rodhocetus</i>	<i>kasranii</i>	P3	37.5	14.9		Gingerich et al. (1995b)
GSP-UM	3012	Protocetidae	<i>Rodhocetus</i>	<i>kasranii</i>	p1	18.4	8.9		Gingerich et al. (1995b)
GSP-UM	3012	Protocetidae	<i>Rodhocetus</i>	<i>kasranii</i>	p2		13.4		Gingerich et al. (1995b)
GSP-UM	3012	Protocetidae	<i>Rodhocetus</i>	<i>kasranii</i>	p3	42.3	16.2	34.0	Gingerich et al. (1995b)
GSP-UM	3012	Protocetidae	<i>Rodhocetus</i>	<i>kasranii</i>	p4	38.6	14.6		Gingerich et al. (1995b)
KPG-M	133	Protocetidae	<i>Togocetus</i>	<i>traversei</i>	r dP3	27.3	12.0	17.4	Gingerich and Cappetta (2014)
KPG-M	10	Protocetidae	<i>Togocetus</i>	<i>traversei</i>	l dP4	26.0	13.4	16.0	Gingerich and Cappetta (2014)
KPG-M	16	Protocetidae	<i>Togocetus</i>	<i>traversei</i>	r dp2	18.8	6.6	13.1	Gingerich and Cappetta (2014)
KPG-M	15	Protocetidae	<i>Togocetus</i>	<i>traversei</i>	l dp3	24.0	7.9	16.4	Gingerich and Cappetta (2014)
KPG-M	23	Protocetidae	<i>Togocetus</i>	<i>traversei</i>	l dp4	35.0	10.2		Gingerich and Cappetta (2014)
KPG-M	9	Protocetidae	<i>Togocetus</i>	<i>traversei</i>	l P1	17.5	8.6	14.6	Gingerich and Cappetta (2014)
KPG-M	20	Protocetidae	<i>Togocetus</i>	<i>traversei</i>	r P1	17.5	8.4		Gingerich and Cappetta (2014)
KPG-M	39	Protocetidae	<i>Togocetus</i>	<i>traversei</i>	l P3			21.7	Gingerich and Cappetta (2014)
KPG-M	59	Protocetidae	<i>Togocetus</i>	<i>traversei</i>	l P4		16.4	22.3	Gingerich and Cappetta (2014)
KPG-M	134	Protocetidae	<i>Togocetus</i>	<i>traversei</i>	l P4			21.7	Gingerich and Cappetta (2014)
KPG-M	12	Protocetidae	<i>Togocetus</i>	<i>traversei</i>	r p2	24.8	10.8	22.6	Gingerich and Cappetta (2014)
ChM PV	6950	Protocetidae	<i>Tupelocetus</i>	<i>palmeri</i>	r P2	43.6	16.5		Gibson et al. (2019)

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