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SUPPLEMENTARY ONLINE MATERIAL FOR

**Non-destructive analysis of pathological belemnite rostra
by micro-CT techniques**

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Supplementary Online Material

Table 1. Data of the specimens or CT-data related information.

Taxon	Size [GB]	Vol file [GB]	Voxel size [μm]	Locality	Stratigraphy	Housing institute	Coll. number	References	Forma aegra
? <i>Acrocoelites</i>	23.9	close up 10.8	close up 3.9	Altdorf, SW-Germany	Lower Jurassic, Toarcian	Museum der Universität Zuerich, Switzerland	PIMUZ 37346	Weißmüller 2017: fig. 173-176; Hoffmann and Weißmüller 2018	saepia
<i>Actinocamax =Goniot euthis?</i>	12	11.9	4.6	Alemannia, Höver, NW-Germany	Upper Cretaceous, Lower Campanian	SNSB - Bayerische Staatssammlung für Paläontologie und Geologie München	PB-246; SNSB-BSPG-83246	Mietchen et al. 2005: fig. 1; Keupp 2012: fig. 396)	angulata-clavata
<i>Belemnello camax mammilatus mammilatus</i>	17.8	6.2	21.3	Ivø Klack (=Blaksudden), Scania, Sweden	Upper Cretaceous, Lower Campanian	Natural History Museum of Denmark (Geological Museum)	GM 01.1918	curator: Sten Lennart Jakobsen	clavata
<i>Belemnello camax mammilatus mammilatus</i>	4.51	4.46	20	Ugnsmunarna, Scania, Sweden	Upper Cretaceous, Lower Campanian	Natural History Museum of Denmark (Geological Museum)	GM 03.1918	curator: Sten Lennart Jakobsen	collata
<i>Belemnello camax mammilatus mammilatus</i>	2.12	2.06	20	Ivø Klack (=Blaksudden), Scania, Sweden	Upper Cretaceous, Lower Campanian	Natural History Museum of Denmark (Geological Museum)	GM 04.1918	curator: Sten Lennart Jakobsen	angulata
<i>Belemnello camax mammilatus mammilatus</i>	8.23	8	19	Ivø Klack (=Blaksudden), Scania, Sweden	Upper Cretaceous, Lower Campanian	Natural History Museum of Denmark (Geological Museum)	GM 02.1918	curator: Sten Lennart Jakobsen	clavata
<i>Belemnitella</i>	13.2	13.2	10	Höver, NW-Germany	Upper Cretaceous, Lower Campanian	Ruhr-Universität Bochum	RUB-Pal 11273		non
? <i>Belemnitella</i>	29.7	close up 15.7	close up 12.2	NW Germany	Upper Cretaceous	Ruhr Museum Essen	RE 551.763.333 A 5238	curator: Udo Scheer, Achim Reisdorf, leg. Baschin	bullata
<i>Duvalia emeric</i>	5.3	5.2	16.6	Laborel, France	Lower Cretaceous (Upper Valanginian)	collection Marie-Claire Thomel-Picollier, France	RUB-Pal 22170		bullata

<i>Goniocamax</i>	13.8	1.26; close up: 10.8	18.7; close up: 6.2	Bavnodde, Denmark	Upper Cretaceous, Lower Santonian	University of Copenhagen	MGUH 32024	Hoffmann et al. 2018	bullata
<i>Goniateuthis</i>	12	11.6	13.6	Höver, NW-Germany	Upper Cretaceous, Lower Campanian	SNSB - Bayerische Staatssammlung für Paläontologie und Geologie München	PB-370; SNSB-BSPG- 83370	Keupp 2012: fig. 392	hamata
<i>Goniateuthis</i>	13.1	4.78	8.3	Höver, NW-Germany	Upper Cretaceous, Lower Campanian	Ruhr-Universität Bochum, leg. Jens Bruns	RUB-Pal 11264		saepia
<i>Goniateuthis</i>	6.06	2.52	15	Höver, NW-Germany	Upper Cretaceous, Lower Campanian	Ruhr-Universität Bochum, leg. Lutz Kaecke	RUB-Pal 11301		clavata
<i>Goniateuthis quadrata</i>	3.36	3.16	14	Höver, NW-Germany	Upper Cretaceous, Lower Campanian	Ruhr-Universität Bochum, leg. Udo Frerichs	RUB-Pal 11302		angulata
<i>Hibolithes</i>	12.1	11.3	7.4	Heligoland, NW-Germany	Lower Cretaceous, Hauterivian	SNSB - Bayerische Staatssammlung für Paläontologie und Geologie München	PB-251; SNSB-BSPG- 83251	Mietchen et al. 2005: fig. 5; Keupp 2012: fig. 386; Hoffmann et al. 2014: fig. 11	bullata
<i>Hibolithes jaculoides</i>	5.85	1.7	16	Resse, NW-Germany	Lower Cretaceous, Hauterivian	Ruhr-Universität Bochum, leg. Udo Frerichs	RUB-Pal 11303		clavata
<i>Neoclavibelus subclavatus</i>	3.32	3.17	15.5	Mistelgau, S-Germany	Lower Jurassic, Upper Toarcian	SNSB - Bayerische Staatssammlung für Paläontologie und Geologie München	PB-264; SNSB-BSPG- 83264	Mietchen et al. 2005: fig. 4; Keupp 2012: fig. 404	bullata
<i>Pseudobelus</i>	10.1	2.06	11.7	Barret-Meouge, France	Lower Cretaceous (Upper Valanginian)	collection Marie-Claire Thomel-Picollier, France	RUB-Pal 3196	Thomel-Picollier 2018: pl. 4: 16	hamata
undetermined specimen	18.1+ M32C32:N32	6.94	19	East-Greenland	Lower Cretaceous	CASP, Cambridge, United Kingdom	K9068		bullata