|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Type / Inv. Nr. | Fig. | D | H | W | U | ah | H/W | H/D | H/U | U/D | W/D | WER |
|  |  | in mm |  |  |  |  |  |  |
| *Kasimlarceltites krystyni* gen. et sp. nov. and related genera |  |  |  |  |  |  |
| NHMW-2012z0133/0268,data source: sm | 4C | 0.6 | 0.3 | - | 0.1 | 0.2 | - | 0.42 | 1.93 | 0.22 | - | 2.250(mh) |
| NHMW-2012z0133/0006,data source: sm | 5M–N | 18.5 | 5.8 | 4.5 | 7.4 | 5.0 | 1.27 | 0.31 | 0.78 | 0.4 | 0.24 | 1.888(m) |
| NHMW-2012z0133/0007,data source: sm | 5O–P | 18.5 | 5.9 | 4.6 | 7.3 | 5.0 | 1.28 | 0.32 | 0.81 | 0.40 | 0.25 | 1.885(m) |
| NHMW-2012z0133/0008,data source: sm | 5Q–R | 19.1 | 6.1 | 4.9 | 8.8 | 4.3 | 1.25 | 0.32 | 0.69 | 0.46 | 0.25 | 1.666(m) |
| NHMW-2012z0133/0009,data source: sm | 5S–T | 20.4 | 6.4 | 5.0 | 9.2 | 5.4 | 1.28 | 0.32 | 0.70 | 0.45 | 0.25 | 1.841(m) |
| NHMW-2012z0133/0010,data source: sm | 5U–V | 20.2 | 6.2 | 4.5 | 9.0 | 5.1 | 1.38 | 0.30 | 0.68 | 0.45 | 0.22 | 1.786(m) |
| NHMW-2012z0133/0011,data source: sm | 5W–X | 29.9 | 9.5 | 5.4 | 14.2 | 6.3 | 1.74 | 0.32 | 0.67 | 0.48 | 0.18 | 1.605(m) |
| *Dinarites* *avisianus*in Mojsisovics 1882(p. 13, pl. 27, fig. 17), data source: rOP | - | 40 | 14 | 10 | 16.5 | 11.5 | 1.40 | 0.35 | 0.85 | 0.41 | 0.25 | 1.971(m) |
| *D. avisianus*in Mojsisovics 1882(p. 13, pl. 27, fig. 19), data source: rOP | - | 29 | 10 | 7.5 | 12.5 | 8.57 | 1.33 | 0.34 | 0.80 | 0.43 | 0.26 | 2.015(mh) |
| HT of *Aploceras transiens* inManfrin *et al*. 2005(fig. 5, 10–11),data source: mOF | - | 24.6 | 7.24 | 5.7 | 10.6 | - | 1.27 | 0.29 | 0.69 | 0.43 | 0.23 | - |
| *A. laczkoi* in Manfrin *et al*. 2005 (fig. 5, 1–2),data source: mOF | - | 21.4 | 7.6 | 5.4 | 9.1 | - | 1.42 | 0.36 | 0.83 | 0.43 | 0.25 | - |
| HT of *Celtites neumayri*Mojsisovics 1893(p. 348, pl. 200,figs. 5a–b),data source: rOP | - | 27 | 7 | 9 | 15 | 5.4 | 0.78 | 0.26 | 0.47 | 0.56 | 0.33 | 1.561(l) |
| HT of *C. edithae*Mojsisovics 1893(p. 349, pl. 200, fig. 7), data source: rOP | - | 16 | 5 | 6 | 8 | 3.96 | 0.83 | 0.31 | 0.63 | 0.50 | 0.38 | 1.766(m) |
| HT of *C. epolensis* Mojsisovics 1882(p. 149, pl.38, fig. 13), data source: rOP | - |  26 | 6 | - | 15 | - | - | 0.23 | 0.40 | 0.58 | - | - |
| HT of *C. laevior* Diener 1917 (p. 390, pl. 3, fig. 9),data source: sm | - | 14.0 | 4.0 | 3.5 | 7.0 | 3.9 | 1.14 | 0.29 | 0.57 | 0.5 | 0.25 | 1.937(m) |
| HT of *C. ottiliae*Diener 1921 (p. 512, pl. 8, figs. 8a–b),data source: sm | - | 12.5 | 3.5 | 3.0 | 6.0 | - | 1.17 | 0.28 | 0.58 | 0.48 | 0.24 | - |
| HT of *C. laevissimus*Diener 1921 (p. 512, pl. 8, figs. 7a–b),data source: sm | - | 11.0 | 3.0 | 3.0 | 5.5 | - | 1.00 | 0.27 | 0.55 | 0.50 | 0.27 | - |
| HT of *C. conifer* Diener 1917, (p. 390–391, pl. 3, fig. 10),data source: sm | - | 9.0 | 2.0 | 3.5 | 4.5 | 2.9 | 0.57 | 0.22 | 0.44 | 0.50 | 0.39 | 2.177(mh) |
| HT of *O. belcheri*Tozer 1994, (p. 125,pl. 103, figs 1a–b), data source: mOF | - | 13.8 | 3.9 | 5.6 | 5.9 | 5.4 | 0.70 | 0.28 | 0.66 | 0.43 | 0.4 | 2.667(h) |
| Type of *“Goniatites” buchi* Klipstein 1843(p. 137, pl. 8, figs 11a–c),data source: mOF | - | 17.9 | 6.47 | 4.8 | 9.1 | 5.5 | 1.35 | 0.36 | 0.71 | 0.51 | 0.27 | 2.085(mh) |
| Type of *“Ammonites” klipsteinianus* Laube 1870 (p. 83, p. 37, fig. 8),data source: rOP | - | 11 | 4 | 4 | 4.5 | 3.3 | 1.00 | 0.36 | 0.89 | 0.41 | 0.36 | 2.057(mh) |
| Type of*Lecanites glaucus*Mojsisovics 1882(p. 200, pl. 30, fig. 4), data source: rOP | - | 12 | 4 | 2 | 5 | 4 | 2.00 | 0.33 | 0.80 | 0.42 | 0.17 | 2.250(mh) |
| *L. vogdesi* inAssereto 1969(p. 2, fig. 2),data source: mOF | - | 50.9 | 13.9 | - | 26.1 | 12.9 | - | 0.27 | 0.53 | 0.51 | - | 1.854(m) |
| *L. vogdesi* inAssereto1969(p. 1, figs 6a–c),data source: mOF | - | 36.8 | 11.6 | 10.4 | 14.4 | 8.4 | 1.12 | 0.32 | 0.80 | 0.39 | 0.28 | 1.683(m) |
| *L. vogdesi* inAssereto 1969(p. 2, figs 7a–c),data source: mOF | - | 28.0 | 10.1 | 8.1 | 12.9 | 9.4 | 1.25 | 0.36 | 0.79 | 0.46 | 0.29 | 2.276(mh) |
| *L. vogdesi* inAssereto 1969(p. 2, figs 10a–c),data source: mOF | - | 33.8 | 10.8 | 9.5 | 13.4 | 10.6 | 1.13 | 0.32 | 0.80 | 0.40 | 0.28 | 2.129(mh) |
| *L. misanii* inManfrin *et al*. 2005(p. 484, fig. 5, 21–22), data source: mOF | - | 17.9 | 6.1 | 3.6 | 7.6 | 4.6 | 1.69 | 0.34 | 0.80 | 0.43 | 0.20 | 1.822(m) |
| Type of *Coeloceltites rectangularis*(Hauer, 1860, p. 351),data source: rOP | - | 27.7 | 7.3 | 7.8 | 15.3 | 7.3 | 0.94 | 0.26 | 0.48 | 0.55 | 0.28 | 1.838(m) |
| Type of*Cycloceltites arduini* (Mojsisovics 1893, p. 360, pl. 122, fig. 6),data source: rOP | - | 31 | 8 | 5.0 | 19 | 7.5 | 1.60 | 0.26 | 0.42 | 0.61 | 0.16 | 1.740(m) |
| *Spirogmoceras* cf*. shastense* and type material of *Sp. shastense* |  |  |  |  |  |  |
| NHMW-2012z0133/0467 | 8A | 46 | 24 | – | – | – | – | 0.52 | – | – | – | – |
| HT of *Sp.* *lecontei* (Hyatt & Smith 1905), data source: rOP | – | 141 | 83 | 41 | 14 | 60 | 2.02 | 0.59 | 5.93 | 0.10 | 0.29 | 3.03 (vh) |
| HT of *Sp. californicum* (Smith 1927), data source: rOP | – | 170 | 90 | 63 | 26 | – | 1.43 | 0.53 | 3.46 | 0.15 | 0.37 | – |
| *Sandlingites* cf. *pilari* and type material of *Sa. pilari* |
| NHMW-2012z0133/0335,data source: sm | 8B | – | 12.1 | – | – | – | – | – | – | – | – | – |
| NHMW-2012z0133/0338,data source: sm | – | 16.0 | 6.41 | – | 6.0 | – | – | 0.40 | 1.07 | 0.38 | – | – |
| NHMW-2012z0133/0475,data source: sm | 8D | 13.3 | 5.2 | 2.0 | 5.3 | 4.5 | 2.60 | 0.39 | 0.98 | 0.40 | 0.15 | 2.284(mh) |
| LT of*Sa. pilari* Diener 1917, NHMW-1998z0056/0007,data source: rOP | – | 30.0 | 12.0 | 8.0 | 11.0 | 12.1 | 1.50 | 0.40 | 1.09 | 0.37 | 0.27 | 2.810(vh) |
| PT of *Sa. pilari* Diener 1917NHMW-1998z0056/0019,data source: sm | – | 22.3 | 9.4 | 7.6 | 8.0 | 9.4 | 1.24 | 0.42 | 1.18 | 0.36 | 0.34 | 2.990(vh) |
| *Klipsteinia disciformis* sp. nov. and related species |  |  |  |  |  |  |  |  |  |
| *“Ammonites” hirschi*in Laube (1870, pl.41, fig. 9), data source: rOP, mOF (ah) | – | 13 | 5.6 | 5 | 3.5 | 5.30 | 1.12 | 0.43 | 1.6 | 0.27 | 0.38 | 2.850(vh) |
| *“Ceratites” achelous*in Münster (1841, p. 134, pl. 15, figs. 23a–c),data source: mOF | – | 12.87 | 5.67 | 4.88 | 3.78 | 5.58 | 1.16 | 0.44 | 1.50 | 0.29 | 0.38 | 3.117(vh) |
| *“Ceratites” boetus*in Münster (1841, p. 129, pl. 14, figs 14a–d),data source: mOF | – | 12.8 | 3.04 | 3.74 | 6.85 | 4.64 | 0.81 | 0.24 | 0.44 | 0.54 | 0.29 | 2.461(h) |
| *„Ceratites“ irregularis*in Münster (1841, p. 135, pl. 15, fig. 26a–c),data source: mOF | – | 15.0 | 4.13 | 4.03 | 7.37 | 4.62 | 1.02 | 0.28 | 0.56 | 0.49 | 0.27 | 2.088(mh) |
| *Kl. karreri* in Mojsisovics(1882, pl.25, fig. 27),data source: rOP, mOF (ah) | – | 20 | 8 | 6.5 | 5 | 6.96 | 1.23 | 0.40 | 1.60 | 0.25 | 0.33 | 2.352(mh) |
| *Kl. nataliae* in Mojsisovics(1882, pl. 25, fig. 17),data source: rOP, sm (ah) | – | 26 | 10 | 5 | 8 | 9.5 | 2.0 | 0.38 | 1.25 | 0.31 | 0.19 | 2.495(h) |
| *Neoprotrachyceras attila* and type material |  |  |  |  |  |  |  |  |
| NHMW-2012z0133/0331,data source: sm | 8M–N | 52.2 | 27.5 | 14.5 | 10.5 | – | 1.90 | 0.53 | 2.62 | 0.20 | 0.28 | – |
| Mojs. measured syntype (1870, pl. 5, fig. 2),data source: rOP | – | 58 | 26 | – | 10 | – | – | 0.45 | 2.60 | 0.17 | – | – |
| *“Protr. (Trach.)” attila* Mojs. (1893, p. 634, pl. 170, figs. 2a–b),data source: rOP, mOF (ah) | – | 63 | 32 | 19 | 10.5 | 23.5 | 1.68 | 0.51 | 3.05 | 0.17 | 0.30 | 2.544(h) |
| *Neoprotrachyceras baconicum* and type material |  |  |  |  |  |  |  |  |
| NHMW-2012z0133/0317, data source: sm | 8W–X | 14.1 | 5.4 | 5.6 | 6.5 | – | 0.96 | 0.38 | 0.83 | 0.46 | 0.40 | – |
| NHMW-2012z0133/0314,data source: sm | 8O–P | 14.5 | 6.0 | 7.0 | 4.0 | 5.4 | 0.86 | 0.41 | 1.50 | 0.28 | 0.48 | 2.539(h) |
| NHMW-2012z0133/0315,data source: sm | 8S–T | 20.0 | 11.0 | 8.0 | 4.0 | 9.0 | 1.38 | 0.55 | 2.75 | 0.20 | 0.40 | 3.306(vh) |
| NHMW-2012z0133/0316,data source: sm | 8Q–R | 30.3 | 13.9 | 9.7 | 8.4 | 11 | 1.43 | 0.46 | 1.65 | 0.28 | 0.32 | 2.465(h) |
| NHMW-2012z0133/0319,data source: sm | 8U–V | 38 | 16.43 | 12 | 12.5 | 12.97 | 1.52 | 0.43 | 1.31 | 0.33 | 0.28 | 2.305(mh) |
| NHMW-2012z0133/0320,data source: sm | 8Y–Z | 38.5 | 16.8 | 10 | 12.8 | 13.1 | 1.68 | 0.44 | 1.31 | 0.33 | 0.26 | 2.297(mh) |
| *“Trachyceras“ baconicum* (Mojs. 1870), pl. 5, fig. 5,data source: rOP, mOF (ah) | – | 90 | 45 | 25 | 20 | 35.0 | 1.80 | 0.50 | 2.25 | 0.22 | 0.28 | 2.678(h) |
| “*Protr. Trach.” baconicum* in (Mojs. 1893, p. 635, pl. 170, fig. 7),data source: rOP, mOF (ah) | – | 54 | 24 | 14 | 14 | 19.95 | 1.71 | 0.44 | 1.71 | 0.26 | 0.26 | 2.515(h) |
| *Sirenites senticosus* and type material |  |  |  |  |  |  |  |  |  |
| NHMW-2012z0133/0281,data source: sm | 5AI–AJ | *23* | *9* | *5* | *6.32* | *9* | *1.85* | *0.39* | *1.42* | *0.27* | *0.22* | *2.699 (h)* |
| NHMW-2012z0133/0289,data source: sm | 10A–B | 22.76 | 9.21 | 5.87 | 6.94 | 8.9 | 1.57 | 0.40 | 1.33 | 0.30 | 0.26 | 2.697 (h) |
| NHMW-2012z0133/0285,data source: sm | – | 29.0 | 12.5 | 7.5 | 10.0 | 11.2 | 1.67 | 0.43 | 1.25 | 0.34 | 0.26 | 2.654 (h) |
| NHMW-2012z0133/0284,data source: sm | – | – | 12.0 | 6.5 | – | – | 1.85 | – | – | – | – | – |
| HT from Dittmar (1866, p. 375,pl. 17, figs 9–10),data source: rOP | – | 26 | 12.1 | 7.25 | 6.65 | 9.67 | 1.67 | 0.47 | 1.82 | 0.26 | 0.28 | 2.535 (h) |
| *Sirenites senticosus* in Mojs. (1893, p. 727, pl. 161, fig. 12), data source: rOP | – | 26 | 12 | 7 | 6 | – | 1.71 | 0.46 | 2.00 | 0.23 | 0.27 | – |
| *Anasirenites crassicrenulatus* and related species |  |  |  |  |  |  |  |  |
| HT of  *Anasirenites tripunctatus*Mojsisovics, 1893 (p. 777, pl. 161, fig. 1; GBA 1893/001/0706),data source: rOP, mOF (ah) | – | 43 | 21 | 11 | 9 | 4.5 | 1.91 | 0.49 | 2.33 | 0.21 | 0.26 | 1.247(l) |
| HT of *Anasirenites briseis* Mojsisovics, 1893(p. 776, pl. 160, fig. 15; GBA 1893/001/0705),data source: rOP, mOF (ah) | – | 30 | 16 | 7.5 | 3.5 | 10.0 | 2.13 | 0.53 | 4.57 | 0.12 | 0.25 | 2.250(mh) |
| HT of *Anasirenites**friederici* Mojsisovics, 1893 (p. 777, pl. 161, fig. 2;GBA 1893/001/0708),data source: rOP, mOF (ah) | – | 43 | 21 | 11 | 9 | 16.0 | 1.91 | 0.49 | 2.33 | 0.21 | 0.26 | 2.536(h) |
| HT of  *Anasirenites marthae* Mojsisovics, 1893 (p. 777, pl. 161, fig. 3; GBA 1893/001/0707),data source: rOP, mOF (ah) | – | 40 | 17 | 12 | 12 | 11.0 | 1.42 | 0.43 | 1.42 | 0.30 | 0.30 | 1.902(m) |
| *Paratropites* cf. *hoetzendorfii* and type material of *P. hoetzendorfii* |  |  |  |  |  |  |  |
| NHMW-2012z0133/0352,data source: sm | 10 Gad | *73* | *37* | *–* | *6* | *–* | *–* | *0.51* | *6.17* | *0.08* | – | – |
| NHMW-2012z0133/0368,data source: sm | 10 H juv | 29.82 | 15.33 | 7.5 | *–* | *–* | 2.04 | 0.51 | – | – | 0.25 | – |
| Syntype of Diener´s*P. hoetzendorfii* 1917(p. 369, pl. 1, fig. 1; NHMW-1998z0056/0021; ad),data source: rOP, sm (ah) | – | 95 | 54 | 30 | 6 | 32.7 | 1.80 | 0.57 | 9.00 | 0.09 | 0.32 | 2.325(mh) |
| Syntype of Diener´s *P. hoetzendorfii,* 1917(p. 369, pl. 1, fig. 2a–c; NHMW-1998z0056/0026; juv); data source: sm | – | 43.0 | 24.3 | 21.48 | 7.15 | 15.1 | 1.13 | 0.57 | 3.40 | 0.17 | 0.50 | 2.380(mh) |
| *Trachysagenites* cf. *beckei* and type material of *T. beckei* |  |  |  |  |
| Inner whorl ofNHMW-2012z0133/0350,data source: sm | 10I–J | *65* | *33* | *24* | *9* | – | *1.38* | *0.51* | *3.67* | *0.14* | *0.37* | – |
| HT of *Trachysagenites beckei* Diener 1921(p. 501, pl. 5, figs 1a–b), NHMW-1926z0002/0688)data source: rOP, sm (ah) | – | 150 | 79 | 63 | 29 | 66 | 1.25 | 0.53 | 2.72 | 0.19 | 0.42 | 3.189(vh) |
| Syntype of *Trachysagenites glamocensis* Diener, 1917,(p. 362, pl. 2, fig. 1; NHMW-1998z0056/0025),data source: rOP, sm (W, ah) | – | 81 | 46 | 32 | 13 | 36 | 1.44 | 0.57 | 3.54 | 0.16 | 0.40 | 3.240(vh) |
| *Proarcestes* sp. |  |  |  |  |  |  |  |  |  |  |  |  |
| NHMW-2012z0133/0443,data source: sm | 10K | *52* | *27* | *26* | *2.9* | *14* | *1.04* | *0.52* | *9.31* | *0.06* | *0.50* | *1.873**(m)* |
| NHMW-2012z0133/0445,data source: sm | 10M–N | *50* | *26* | *26* | *2.0* | *11* | *1.00* | *0.52* | *13.0* | *0.04* | *0.52* | *1.664**(m)* |
| *Megaphyllites jarbas* and type material |  |  |  |  |  |  |  |  |
| NHMW-2012z0133/0479,data source: sm | 10O | 33.0 | 16.5 | 9.5 | 0.5 | 10.0 | 1.74 | 0.50 | 33.00 | 0.02 | 0.29 | 2.059(mh) |
| HT of „*Ceratites jarbas*“ (Münster 1841), p. 135, pl. 15, fig. 25data source: mOF | – | 18.5 | 9.9 | – | 1.9 | 8.0 | – | 0.54 | 5.21 | 0.10 | – | 3.104(vh) |
| *Simonyceras simonyi* and type material |  |  |  |  |  |  |  |  |  |
| NHMW-2012z0133/0477 max. length: 165 mm,data source: sm | 11A | – | *80.0* | *82.0* | – | – | – | – | – | – | – | – |
| Syntype of Mojsisovics (1873, pl. 17, fig. 1;GBA 1873/5/48),data source: rOP | – | *248* | *111* | *55* | *82* | *72.5* | *2.02* | *0.45* | *1.35* | *0.33* | *0.22* | *1.997*(m) |