|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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* in  Manfrin *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* in  Assereto 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* in  Assereto1969  (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* in  Assereto 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* in  Assereto 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* in  Manfrin *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 1917  NHMW-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 G  ad | | | | *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 of  NHMW-  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. 25  data 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) |