

| System                 | Serie  | Internationale Stufen-gliederung   | Numerisches Alter in Mio a.  | Lithologie O-Harz   | Ammonoideen-Zonen<br>alte Zonierung<br>KORN & GEREKE | Ammonoideen-Zonen und Geno-Zonen<br>KORN   | Conodonten-Zonen<br>GEREKE  |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|------------------------|--|--|--|---|--|--|-----------------------------|--------------------------|-------------------|----------------------------------|---------------------------------|--|-------------------------|-------------------------------------|-----------------|-----------------------------------|--|-----------------|-------------------------------|---------------|
| KARBON                 | UNTERKARBON  | SERPUKHOVIUM   | 323,2  | ?   | Emorphoceras-Stufe                                   | <i>bisulcatum</i> E2 <table border="1"> <tr><td>c</td><td><i>nuculum</i></td></tr> <tr><td>b</td><td><i>nititoides</i></td></tr> <tr><td>holmesi</td><td></td></tr> <tr><td>edalensis</td><td></td></tr> <tr><td>grassingtonense</td><td></td></tr> </table> | c                           | <i>nuculum</i>           | b                 | <i>nititoides</i>                | holmesi                         |  | edalensis               |                                     | grassingtonense |                                   | <i>Eumorphoceras-Cravenoceratoides</i> | <i>schmidti</i> |                               |               |
|                        |  |  | c  | <i>nuculum</i>  |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  |  | b  | <i>nititoides</i>   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  |  | holmesi  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  | edalensis  |  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  | grassingtonense  |  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  | 330,9  | Kulm-Grauwacke   | pseudobilingue E1 <table border="1"> <tr><td>c</td><td><i>pseudobilinguis</i> 3</td></tr> <tr><td>b</td><td><i>pseudobilinguis</i> 2</td></tr> <tr><td>pseudobilinguis 1</td><td></td></tr> <tr><td>angustus</td><td></td></tr> <tr><td>horni</td><td></td></tr> <tr><td>medusa</td><td></td></tr> <tr><td>pseudocoronula</td><td></td></tr> </table> | c  | <i>pseudobilinguis</i> 3   | b                           | <i>pseudobilinguis</i> 2 | pseudobilinguis 1 |                                  | angustus                        |  | horni                   |                                     | medusa          |                                   | pseudocoronula                         |                 | <i>Tumulites-Cravenoceras</i> | <i>nodosa</i> |
|                        |  |  |  |   | c  | <i>pseudobilinguis</i> 3   |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  |  |  |   | b  | <i>pseudobilinguis</i> 2   |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  |  |  |   | pseudobilinguis 1                                    |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  | angustus   |  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  | horni  |  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  | medusa   |  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  | pseudocoronula   |  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  | Kulm-Tonschiefer   | granosus <table border="1"> <tr><td>cu III γ 2</td><td><i>novalis</i></td></tr> <tr><td>chalicum</td><td></td></tr> <tr><td>liethensis</td><td></td></tr> <tr><td>eisenbergensis</td><td></td></tr> <tr><td>cu III γ 1</td><td><i>poststriatum</i></td></tr> <tr><td>suerladense</td><td></td></tr> </table> | cu III γ 2  | <i>novalis</i>                                       | chalicum   |                             | liethensis               |                   | eisenbergensis                   |                                 | cu III γ 1                             | <i>poststriatum</i>     | suerladense                         |                 | <i>Lusitanoceras-Lyrogoniatis</i> | <i>nodosa</i>                          |                 |                               |               |
|                        |  |  |  | cu III γ 2  | <i>novalis</i>                                       |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  |  |  | chalicum  |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  |  |  | liethensis  |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  | eisenbergensis   |  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  | cu III γ 1   | <i>poststriatum</i>  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
| suerladense            |  |  |  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
| Crenistria-Bank        | striatus <table border="1"> <tr><td>cu III β</td><td><i>rotundum</i></td></tr> <tr><td>spi</td><td><i>spirale</i></td></tr> <tr><td>mu</td><td><i>gracilis</i></td></tr> <tr><td>el</td><td><i>falcatus</i></td></tr> <tr><td>fa</td><td><i>spirifer</i></td></tr> <tr><td>str</td><td></td></tr> </table> | cu III β   | <i>rotundum</i>  | spi   | <i>spirale</i>                                       | mu   | <i>gracilis</i>             | el                       | <i>falcatus</i>   | fa                               | <i>spirifer</i>                 | str                                    |                         | <i>Arnsbergites-Neoglyphioceras</i> | <i>nodosa</i>   |                                   |  |                 |                               |               |
|                        |  | cu III β   | <i>rotundum</i>  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  | spi  | <i>spirale</i>   |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  | mu   | <i>gracilis</i>  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
| el                     | <i>falcatus</i>  |  |  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
| fa                     | <i>spirifer</i>  |  |  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
| str                    |  |  |  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
| Kulm-Kieselschiefer    | crenistria <table border="1"> <tr><td>4</td><td><i>fimbriatus</i></td></tr> <tr><td>cu III α</td><td><i>crenistria</i></td></tr> <tr><td>3</td><td><i>globostriatus</i></td></tr> <tr><td>2</td><td><i>hudsoni</i></td></tr> <tr><td>1</td><td><i>grimmeri</i></td></tr> </table>                          | 4  | <i>fimbriatus</i>  | cu III α  | <i>crenistria</i>                                    | 3  | <i>globostriatus</i>        | 2                        | <i>hudsoni</i>    | 1                                | <i>grimmeri</i>                 | <i>Goniatis-Maxigoniatis</i>           | <i>bilineatus</i>       |                                     |                 |                                   |  |                 |                               |               |
|                        |  | 4  | <i>fimbriatus</i>  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  | cu III α   | <i>crenistria</i>  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  | 3  | <i>globostriatus</i>   |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
| 2                      | <i>hudsoni</i>   |  |  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
| 1                      | <i>grimmeri</i>  |  |  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
| Lydite                 | nasatus <table border="1"> <tr><td>δ</td><td><i>nasutus</i></td></tr> <tr><td>?</td><td></td></tr> <tr><td>γ</td><td></td></tr> <tr><td>β</td><td></td></tr> <tr><td>α</td><td></td></tr> </table>   | δ  | <i>nasutus</i>   | ?   |  | γ  |                             | β                        |                   | α                                |                                 | <i>Beyrichoceras-Entogonites</i>       | <i>austini</i>          |                                     |                 |                                   |  |                 |                               |               |
|                        |  | δ  | <i>nasutus</i>   |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  | ?  |  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  | γ  |  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
| β                      |  |  |  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
| α                      |  |  |  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
| Liegende Alaunschiefer | "Pericyclus-Stufe" <table border="1"> <tr><td>γ</td><td><i>kochi</i></td></tr> <tr><td>β</td><td><i>plicatilis-corpulentum</i></td></tr> <tr><td>α</td><td><i>princeps-complanatum</i></td></tr> <tr><td>cu I β</td><td></td></tr> </table>  | γ  | <i>kochi</i>   | β   | <i>plicatilis-corpulentum</i>                        | α  | <i>princeps-complanatum</i> | cu I β                   |                   | <i>Bollandites-Bollandoceras</i> | <i>texanus</i>                  |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  | γ  | <i>kochi</i>   |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  | β  | <i>plicatilis-corpulentum</i>  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  | α  | <i>princeps-complanatum</i>  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
| cu I β                 |  |  |  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
| FAMENNIUM              | patens <table border="1"> <tr><td>α</td><td><i>patens</i></td></tr> <tr><td>westfalicus</td><td></td></tr> <tr><td>dorsoplanus</td><td></td></tr> <tr><td>subinvoluta</td><td></td></tr> <tr><td>prorsum</td><td></td></tr> </table>   | α  | <i>patens</i>  | westfalicus   |  | dorsoplanus  |                             | subinvoluta              |                   | prorsum                          |                                 | <i>Fascipericyclus-Ammonellipsites</i> | <i>anchoralis-latus</i> |                                     |                 |                                   |  |                 |                               |               |
|                        |  | α  | <i>patens</i>  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  | westfalicus  |  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  | dorsoplanus  |  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
| subinvoluta            |  |  |  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
| prorsum                |  |  |  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
| DEVON                  | OBER-DEVON   | Gatterndorffia-Stufe <table border="1"> <tr><td>α</td><td><i>patens</i></td></tr> <tr><td>westfalicus</td><td></td></tr> <tr><td>dorsoplanus</td><td></td></tr> <tr><td>acutum</td><td></td></tr> </table> | α  | <i>patens</i>   | westfalicus  |  | dorsoplanus                 |                          | acutum            |                                  | <i>Pericyclus-Progoniatites</i> | <i>typicus</i>                         |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  |  | α  | <i>patens</i>   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  |  | westfalicus  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  |  | dorsoplanus  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
| acutum                 |  |  |  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
| OBER-DEVON             | FAMENNIUM  | Gatterndorffia-Stufe <table border="1"> <tr><td>α</td><td><i>patens</i></td></tr> <tr><td>westfalicus</td><td></td></tr> <tr><td>dorsoplanus</td><td></td></tr> <tr><td>acutum</td><td></td></tr> </table> | α  | <i>patens</i>   | westfalicus  |  | dorsoplanus                 |                          | acutum            |                                  | <i>Protocanites-Gonicyclus</i>  | <i>isosticha-crenulata</i>             |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  |  | α  | <i>patens</i>   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  |  | westfalicus  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  |  | dorsoplanus  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
| acutum                 |  |  |  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
| OBER-DEVON             | FAMENNIUM  | Gatterndorffia-Stufe <table border="1"> <tr><td>α</td><td><i>patens</i></td></tr> <tr><td>westfalicus</td><td></td></tr> <tr><td>dorsoplanus</td><td></td></tr> <tr><td>acutum</td><td></td></tr> </table> | α  | <i>patens</i>   | westfalicus  |  | dorsoplanus                 |                          | acutum            |                                  | <i>Eocanites-Gatterndorffia</i> | <i>sandbergi</i>                       |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  |  | α  | <i>patens</i>   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  |  | westfalicus  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  |  | dorsoplanus  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
| acutum                 |  |  |  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
| OBER-DEVON             | FAMENNIUM  | Gatterndorffia-Stufe <table border="1"> <tr><td>α</td><td><i>patens</i></td></tr> <tr><td>westfalicus</td><td></td></tr> <tr><td>dorsoplanus</td><td></td></tr> <tr><td>acutum</td><td></td></tr> </table> | α  | <i>patens</i>   | westfalicus  |  | dorsoplanus                 |                          | acutum            |                                  | <i>Eocanites-Gatterndorffia</i> | <i>duplicata</i>                       |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  |  | α  | <i>patens</i>   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  |  | westfalicus  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  |  | dorsoplanus  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
| acutum                 |  |  |  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
| OBER-DEVON             | FAMENNIUM  | Gatterndorffia-Stufe <table border="1"> <tr><td>α</td><td><i>patens</i></td></tr> <tr><td>westfalicus</td><td></td></tr> <tr><td>dorsoplanus</td><td></td></tr> <tr><td>acutum</td><td></td></tr> </table> | α  | <i>patens</i>   | westfalicus  |  | dorsoplanus                 |                          | acutum            |                                  | <i>Eocanites-Gatterndorffia</i> | <i>sulcata</i>                         |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  |  | α  | <i>patens</i>   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  |  | westfalicus  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  |  | dorsoplanus  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
| acutum                 |  |  |  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
| OBER-DEVON             | FAMENNIUM  | Gatterndorffia-Stufe <table border="1"> <tr><td>α</td><td><i>patens</i></td></tr> <tr><td>westfalicus</td><td></td></tr> <tr><td>dorsoplanus</td><td></td></tr> <tr><td>acutum</td><td></td></tr> </table> | α  | <i>patens</i>   | westfalicus  |  | dorsoplanus                 |                          | acutum            |                                  | <i>Eocanites-Gatterndorffia</i> | <i>praesulcata</i>                     |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  |  | α  | <i>patens</i>   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  |  | westfalicus  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
|                        |  |  | dorsoplanus  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |
| acutum                 |  |  |  |   |  |  |                             |                          |                   |                                  |                                 |  |                         |                                     |                 |                                   |  |                 |                               |               |

Quellen:  
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 Numerisches Alter: International Chronostratigraphic Chart v. 2016/12: <http://www.stratigraphy.org/ICSchart/ChronostratChart2016-12.jpg>  
 Deutsche Stratigraphische Kommission (Hrsg.; Redaktion: Menning, M. & Hendrich, A.) (2016): Stratigraphische Tabelle von Deutschland 2016; Potsdam (GeoForschungsZentrum).  
 Download unter [http://www.lbeg.niedersachsen.de/geologie/erdgeschichte\\_von\\_niedersachsen/stratigraphie\\_von\\_niedersachsen/stratigraphie-von-niedersachsen.html](http://www.lbeg.niedersachsen.de/geologie/erdgeschichte_von_niedersachsen/stratigraphie_von_niedersachsen/stratigraphie-von-niedersachsen.html)