**Pleading for a new DCB in the historical German deep facies of Sauerland near Stockum**

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The locality of Stockum was visited by the former D/C Working Group on Tuesday, August 10th, 1982. The decision to place the DCB at the *praesulcata/sulcata* level had been taken during a Working Group meeting held in Washington (USA) in 1979. It was recommended to search for a section best displaying this evolution lineage, as well as exhibiting adequate representation among other zonally significant groups (See Paproth & Streel 1984).

Therefore, the Stockum sections, lacking the *praesulcata/sulcata* faunas, were no longer considered as a possible candidate for a DCB stratotype. However, since the publications of Alberti et al. (1974) and Clausen et al. (1994), the locality is known to exhibit a spectacular amount of various zonal fossil groups: ammonoids, trilobites, ostracodes and miospores and a very detailed *Protognathodus* conodont fauna. (See fig. enclosed)

The recent suggestion of Corradini et al. (2016) to place the DCB just after the Hangenberg Event at the entry of *Pr. kockeli* is easily met in the Stockum sections. Placing this limit on top of the last main Hangenberg Sandstone and Shale (HSS), lower than the Stockumer Limestone, would help, as they say, indicate an approximate position of the DCB even in sections where *Pr. kockeli* is poorly present; i.e. in the Dinant - Namur basin (Denayer et al. 2015)

Such new DCB would be close to the end of the so-called “LN Ubergang” microflora, the “*tener* effect” of Prestiani et al. (in preparation) which underline a conspicuous change in the terrestrial vegetation occurring clearly later than the marine faunal extinction. Another advantage would be the close proximity of the former DCB and, therefore, the less disturbance of the existing continental and intercontinental correlation schemes, leaving for instance the glacial evidence entirely in the Devonian.

The 1994 trench II has disappeared. The hill is re-planted with trees and possibly inaccessible. But, the owner of the hill has told that he would agree to re-open the road section (“Wegböschung” road side and 1974 trench I).

**References** \_ Alberti, H., Groos-Uffenorde, H., Streel, M., Uffenorde, H., Walliser, O.H. -1974- The stratigraphical significance of the *Protognathodus* fauna from Stockum (Devonian/Carboniferous Boundary, RhenishSchiefergebirge) Newsl. Stratigr. 3,4: 263-276. \_ Clausen, C.D., Korn, D., Feist, R., Leuschner, K., Groos-Uffenorde, H., Luppold F.W., Stoppel, D., Higgs, K., Streel, M. -1994- Die Devon/Karbon-Grenze bei Stockum (Rheinisches Schiefergebirge). *Geol.Paläont.Westf. 29, 71-95.* \_ Corradini, C., Spalletta, C., Mossoni, A., Matyja, H., Over, D.J. – 2016- Conodonts across the Devonian/Carboniferous boundary: a review and implication for the redefinition of the boundary and a proposal for an updated conodont zonation. *Geol. Mag.:* doi:10.1017/S001675681600039X \_ Denayer, J., Prestianni, C., Sautois, ,M., Poty, E., Mottequin, B. -2015- The Devonian-Carboniferous Boundary and the Lower Carboniferous succession in the type area. STRATA, 17: 59-81. \_ Paproth, E., Streel, M. -1984- The IUGS Devonian-Carboniferous Working Group: a report on activities, 1978-1984. Cour.Forsch.-Inst. Senckenberg, 67: 5-9. \_ Prestianni, C., Denayer, J., Sautois, M., - in preparation- Disrupted continental environments around the Devonian-Carboniferous Boundary: introduction of the *tener* event. Geologica Belgica.