

File:YGS CHR 02 CARB FIG 04.jpg

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Stages	Palynostratigraphy				
	Biozones	Sub-Biozones	Defining criteria	Associated range tops	Associated range bases
Westphalian D (pars.)	W7	W7c	↖ <i>S. dimorphus</i>	↖ <i>V. laevigata</i> , <i>E. zonalis</i> , <i>S. radiatus</i> , <i>A. hoffmeisterii</i> , <i>Zonalosporites</i> spp.	↖ — <i>S. camptotus</i>
		W7b			
		W7a	↖ <i>V. cancellata</i>	↖ — <i>F. junior</i> , <i>W. irregularis</i> , <i>V. pseudoreticulata</i> <i>C. solaris</i> , <i>V. magna</i> , <i>A. triquetrus</i> , <i>R. falsus</i> , <i>R. speciosa</i> , <i>T. tribullatus</i>	↖ — <i>S. dimorphus</i> , <i>C. annulatus</i> , <i>L. gigantea</i> , <i>T. verrucosa</i> , <i>T. obscura</i>
Bolsovian	W6	W6b	↖ <i>D. bireticulatus</i>	↖ — <i>C. lorincatus</i> <i>D. gracilis</i> , <i>R. faunus</i> , <i>R. tenuis</i> , <i>R. fulva</i> , <i>V. microverrucosus</i>	↖ — <i>T. pseudothiesseni</i>
		W6a	↖ <i>A. spinososaetosus</i>	↖ — <i>R. mediareticulatus</i> , <i>A. pustulatus</i> , <i>V. tortuosa</i> , <i>S. nux</i> , <i>R. reticulocingulum</i> , <i>R. polygonalis</i>	↖ — [<i>R. acedatata</i> , <i>B. haaksbergensis</i> , <i>K. glomus</i> , <i>L. trileta</i>
	W5	W5b	↖ <i>G. varioreticulatus</i>	↖ — <i>G. papillosus</i> , <i>R. fulva</i> acme	↖ — <i>Z. magnus</i> , <i>Punctatosporites</i> spp. acme
		W5a	↖ <i>C. connexus</i>	↖ — <i>L. rotunda</i> , <i>R. cf. striatus</i> <i>D. duriti</i> , <i>A. multiplicatus</i> , <i>A. guerickei</i> , <i>T. triquetrus</i> , <i>D. swadei</i> , <i>M. intorta</i> , <i>P. fragila</i> , <i>C. bucculentus</i> , <i>L. rotunda</i> acme	↖ — <i>P. rotundus</i> , <i>T. sculptilis</i> acme, <i>V. magna</i> acme
Duckmantian	W4	W4c	↖ <i>T. sculptilis</i>	↖ — <i>S. concavus</i> , <i>D. smithii</i> , <i>R. microhorrida</i> , <i>C. corrugatus</i>	↖ — <i>T. sculptilis</i> , <i>V. magna</i> , <i>C. rigidus</i> , <i>P. granifer</i>
		W4b	↖ <i>L. noctuina noctuina</i> acme	↖ — <i>L. nitida</i> , <i>L. noctuina noctuina</i> <i>P. minutus</i> , <i>L. noctuina noctuina</i> acme	↖ — <i>C. solaris</i>
		W4a	↖ <i>S. sinuatus</i>	↖ — [<i>S. pretiosus windsorensis</i> , <i>D. cf. spinosus</i> , <i>A. guerickei</i> acme	↖ — <i>M. nobilis</i>
Langsettian	W3	W3a	↖ <i>S. rara</i>	↖ — [<i>H. murchisonensis</i> , <i>R. striatus</i> , <i>A. echinatoides</i> , <i>T. diaphidios</i> , <i>D. karadenizensis</i> , <i>A. variocorneus</i>	↖ — [<i>M. harrisonii</i> , <i>R. faunus</i> , <i>R. tenuis</i> , <i>E. globiformis</i> acme
		W2b	↖ <i>R. aligerens</i>		
	W2	W2a	↖ <i>R. aligerens</i> acme	↖ — [<i>T. cf. protensus</i> , <i>C. splendidus</i> , <i>K. ornatus</i> , <i>D. probireticulatus</i> , <i>C. laminosa</i> , <i>W. pollia</i>	↖ — [<i>P. fragila</i> , <i>E. globiformis</i> , <i>V. donarii</i> , <i>V. pseudoreticulata</i>
		W1b	↖ <i>V. cancellata</i> s.s.	↖ — <i>S. arenaceus</i>	↖ — [<i>E. zonalis</i> , <i>F. pallidus</i> , <i>F. junior</i> , <i>V. cancellata</i> , <i>A. pustulatus</i> s.s., <i>R. cf. difformis</i>
	W1	W1a	↖ <i>St. triangulus</i>	↖ — [<i>A. beeleeyensis</i> , <i>D. vulgaris</i> <i>L. densus</i> , <i>A. pilus</i> , <i>C. bialatus</i> , <i>S. triangulus</i> , <i>P. ruginosus</i> , <i>S. triangularis</i>	
Yeadonian (pars.)	N5 (pars.)	N5c	↖ <i>A. nudus</i>	↖ — <i>T. nodosus</i> , <i>M. punctatus</i>	↖ — [<i>A. spinososaetosus</i> , <i>R. cf. striatus</i> , <i>R. falsus</i> , <i>D. duriti</i>

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