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Supplement of

Chemo- and biostratigraphy of the Gaojiashan section (northern Yangtze platform, South China): a new Pc-C boundary section

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Supplementary material

Table S1: Carbonate contents [%] of selected samples at Gaojiashan section.

Sample	Distance [m]	carbonate content [%]
Gaojiashan section		
Gj	-3.0	78.2
Gj	-2.6	86.6
Gj	-1.3	87.0
Gj	-1.0	93.1
Gj	-0.3	96.3
Gj	2.3	87.7
Gj	8.6	78.3
Gj	9.5	90.2
Gj	10.3	75.5
Gj	10.6	86.5
Gj	11.0	76.2
Gj	12.6	1.4
Gj	13.0	41.7
Gj	13.6	69.9
Gj	14.3	16.1
Gj	15.6	61.7
Gj	16.3	58.6
Gj	18.3	65.1
Gj	19.0	71.1
Gj	19.3	47.8
Gj	19.6	51.6
Gj	20.0	87.0
Gj	20.3	29.3
Gj	20.6	48.3
Gj	21.0	73.0
Gj	21.6	18.7
Gj	22.3	51.0
Gj	22.6	52.9
Gj	23.3	56.7
Gj	24.0	75.8
Gj	24.6	44.9
Gj	25.0	74.1
Gj	25.3	65.9
Gj	26.0	79.5
Gj	26.3	84.2
Gj	26.6	36.2
Gj	27.0	77.7
Gj	27.3	73.4
Gj	27.6	78.1
Gj	28.3	86.1
Gj	28.6	76.1
Gj	29.0	38.1
Gj	30.0	81.0
Gj	31.3	79.9
Gj	31.6	83.5
Gj	32.0	73.4
Gj	32.3	77.6
Gj	32.6	76.6
Gj	33.0	17.5

Gj	33.6	7.2
Gj	34.6	8.4
Gj	35.0	17.8
Gj	36.0	78.4
Gj	37.0	15.2
Gj	37.6	23.9
Gj	38.0	76.2
Gj	38.3	23.9
Gj	38.6	19.8
Gj	39.0	76.3
Gj	39.3	90.4
Gj	39.6	80.1
Gj	40.0	48.8
Gj	41.0	86.4
Gj	42.0	88.5
Gj	42.3	64.9
Gj	43.0	85.3
Gj	44.0	85.2
Gj	45.0	90.3
Gj	46.0	86.6
Gj	47.3	87.0
Gj	48.0	89.9
Gj	49.0	89.2
Gj	50.0	93.4
Gj	51.0	90.7
Gj	52.0	81.1
Gj	53.0	89.5
Gj	54.0	96.6
Gj	55.0	96.8
Gj	56.0	8.3
Gj	57.0	23.0
Gj	58.0	45.5
Gj	58.6	89.8
Gj	61.6	87.7
Gj	62.3	92.7
Gj	63.3	91.6
Gj	64.0	91.5
Gj	65.0	93.0
Gj	67.0	85.1

Table S2: Semi-quantitative XRD data of characteristic samples of units throughout Gaojiashan section.

Sample	Distance [m]	Dolomite	Calcite	Quartz	Feldspar	Phyllosilicate	Sanidine	Residual components
Gaojiashan section								
Gj	-3.3	50.0	0.0	16.0	7.0	20.0	0.0	7.0
Gj	-0.3	96.0	0.0	1.0	0.0	0.0	0.0	3.0
Gj	9.5	67.0	1.0	8.0	4.0	20.0	0.0	0.0
Gj	18.6	43.0	5.0	21.0	0.0	12.0	19.0	0.0
Gj	25.3	2.0	31.0	27.0	16.0	23.0	0.0	1.0
Gj	37.6	0.0	15.0	30.0	0.0	35.0	20.0	0.0
Gj	49.0	11.0	67.0	6.0	0.0	0.0	6.0	10.0
Gj	56.6	8.0	6.0	60.0	12.0	4.0	0.0	10.0
Gj	57.0	18.0	1.0	54.0	11.0	10.0	0.0	6.0
Gj	77.0	90.0	1.0	3.0	4.0	0.0	0.0	2.0
Gj	91.6	83.0	7.0	6.0	0.0	0.0	0.0	4.0

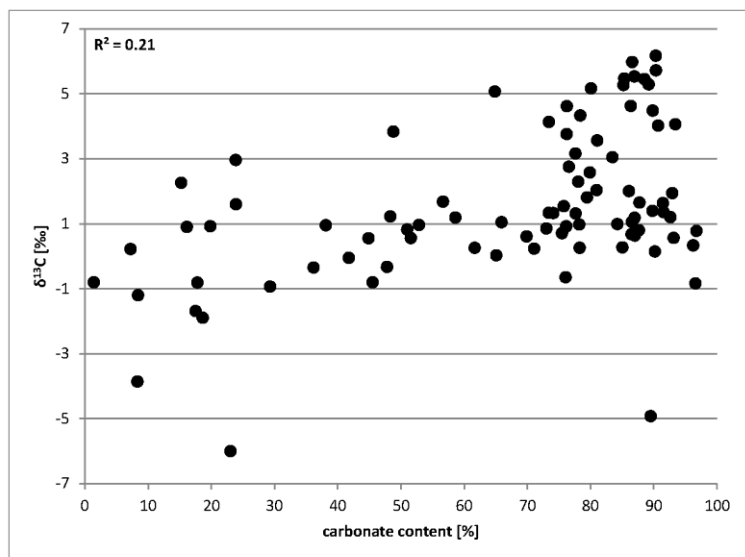


Figure S1: Crossplot of carbonate content versus $\delta^{13}\text{C}$ of the Gaojiashan section. The low correlation between carbonate contents and $\delta^{13}\text{C}$ indicates a low or negligible impact of diagenetical carbonates in the sample set.