



SI Figure 1. International correlation of Late Ordovician stratigraphic sequences, chemostratigraphy & biostratigraphy based on data from the recent literature. Superscripts attached to the locality names refer to the numbered data sources listed below. Timescale based on GTS2012 (Cooper & Sadler 2012, Melchin et al. 2012). Hirnantian shaded light blue and narrow deep orange band in the mid Hirnantian corresponds to the mid Hirnantian interglacial age. See text for further discussion.

1. Fan Junxuan, Peng Ping'an and Melchin, M. J., 2009, Carbon isotopes and event stratigraphy near the Ordovician-Silurian boundary, Yichang, South China: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 276, no. 1-4, p. 160-16
2. Gorjan, P., Kaiho, K., Fike, D. A., and Chen Xu, 2012, Carbon- and sulfur-isotope geochemistry of the Hirnantian (Late Ordovician) Wangjiawan (Riverside) section, South China: Global correlation and environmental event interpretation: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 337-338, p. 14-22.
3. Yan Detian, Chen Diazhao, Wang Qingchen, and Wang Jianguo, 2012, Predominance of stratified anoxic Yangtze Sea interrupted by short-term oxygenation during the Ordo-Silurian transition: *Chemical Geology*, v. 291, p. 69-78.
4. LaPorte, D. F., Holmden, C., Patterson, W. P., Loxton, J. D., Melchin, M. J., Mitchell, C. E., Finney, S. C., and Sheets, H. D., 2009, Local and global perspectives on carbon and nitrogen cycling during the Hirnantian glaciation: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 276, no. 1-4, p. 182-195.
5. Holmden, C. Mitchell, C. E., LaPorte, D. F., Patterson, W. P., Melchin, M.J., and Finney, S. C., 2013. Nd isotope records of late Ordovician sea-level change—implications for glaciation frequency and global stratigraphic correlation. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 10.1016/j.palaeo.2013.05.014.
6. Melchin, M. J., and Holmden, C., 2006, Carbon isotope chemostratigraphy in Arctic Canada: Sea-level forcing of carbonate platform weathering and implications for Hirnantian global correlation: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 234, p. 186-200.
7. This study.
8. Bergström, S. M., Young, S., and Schmitz, B., 2010, Katian (Upper Ordovician) $\delta^{13}\text{C}$ chemostratigraphy and sequence stratigraphy in the United States and Baltoscandia: A regional comparison: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 296, p. 217-234.
9. Bergström, S. M., Kleffner, M., Schmitz, B., and Cramer, B. D., 2011, Revision of the position of the Ordovician-Silurian boundary in southern Ontario: regional chronostratigraphic implications of $\delta^{13}\text{C}$ chemostratigraphy of the Manitoulin Formation and associated strata: *Canadian Journal of Earth Sciences*, v. 48, no. 11, p. 1447-1470.
10. Desrochers, A., Farley, C., Achab, A., Asselin, E., and Riva, J. F., 2010, A far-field record of the end Ordovician glaciation: The Ellis Bay Formation, Anticosti Island, Eastern Canada: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 296, no. 3-4, p. 248-263.
11. Achab, A., Asselin, E., Desrochers, A., Riva, J. F., and Farley, C., 2011, Chitinozoan biostratigraphy of a new Upper Ordovician stratigraphic framework for Anticosti Island, Canada: *Geological Society of America Bulletin*, v. 123, no. 1-2, p. 186-205.
12. Underwood, C. J., Crowley, S. F., Marshall, J. D., and Brenchley, P. J., 1997, High-resolution carbon isotope stratigraphy of the basal Silurian stratotype (Dob's Linn, Scotland) and its global correlation: *Journal of the Geological Society*, v. 154, no. 4, p. 709-718.
13. Armstrong, H. A., and Coe, A. L., 1997, Deep-sea sediments record the geophysiology of the late Ordovician glaciation: *Journal of the Geological Society of London*, v. 154, p. 929-934.

14. Melchin, M.J., Holmden, C. and Williams, S.H., 2003. Correlation of graptolite biozones, chitinozoan biozones, and carbon isotope curves through the Hirnantian. In: G.L. Albanesi, M.S. Beresi and S.H. Peralta (Editors), Ordovician from the Andes. INSUEGO, Serie Correlación Geológica. Comunicarte Editorial, Tucumán, Argentina, pp. 101-104.
15. Koren', T. N., Oradovskaya, M. M., Pylma, L. J., Sobolevskaya, R. F., and Chugaeva, M. N., 1983, The Ordovician and Silurian boundary in the northeast of the U.S.S.R., Leningrad, Nauka Publishers, 205 p.:
16. Koren', T. N., and Sobolevskaja, R. F., 2008, The regional stratotype section and point for the base of the Hirnantian Stage (the uppermost Ordovician) at Mirny Creek, Omulev Mountains, Northeast Russia: Estonian Journal of Earth Sciences, v. 57, no. 1, p. 1-10.
17. Kaljo, D., Männik, P., Martma, T., and Nõlvak, J., 2012, More about the Ordovician-Silurian transition beds at Mirny Creek, Omulev Mountains, NE Russia: carbon isotopes and conodonts: Estonian Journal of Earth Sciences, v. 61, no. 4, p. 277-294.
18. Kaljo, D., Hints, L., Martma, T., Nõlvak, J., and Oraspöld, A., 2004, Late Ordovician carbon isotope trend in Estonia, its significance in stratigraphy and environmental analysis: Palaeogeography, Palaeoclimatology, Palaeoecology, v. 210, no. 2-4, p. 165-185.
19. Ainsaar, L., Kaljo, D., Martma, T., Meidla, T., Männik, P., Nõlvak, J., and Tinn, O., 2010, Middle and Upper Ordovician carbon isotope chemostratigraphy in Baltoscandia: A correlation standard and clues to environmental history: Palaeogeography, Palaeoclimatology, Palaeoecology, v. 294, no. 3-4, p. 189-201.
20. Štorch, P., 2006, Facies development, depositional settings and sequence stratigraphy across the Ordovician-Silurian boundary: a new perspective from the Barrandian area of the Czech Republic: Geological Journal, v. 41, no. 2, p. 163-192.
21. Mitchell, C. E., Štorch, P., Holmden, C., Melchin, M. J., and Gutierrez-Marco, J. C., 2011, New stable isotope data and fossils from the Hirnantian Stage in Bohemia and Spain: implications for correlation and paleoclimate, in Gutierrez-Marco, J. C., Rábano, I., and García-Bellido, D., eds., Ordovician of the World: Madrid, Cuadernos del Museo Geominero, 14. Instituto Geológico y Minero de España, p. 371-378.
22. Loi, A., Ghienne, J. F., Dabard, M. P., Paris, F., Botquelet, A., Christ, N., Elaouad-Debbaj, Z., Gorini, A., Vidal, M., Videt, B., and Destombes, J., 2010, The Late Ordovician glacio-eustatic record from a high-latitude storm-dominated shelf succession: The Bou Ingarf section (Anti-Atlas, Southern Morocco): Palaeogeography, Palaeoclimatology, Palaeoecology, v. 296, no. 3-4, p. 332-358
23. Finnegan, S., Bergmann, K., Eiler, J. M., Jones, D. S., Fike, D. A., Eisenman, I., Hughes, N. C., Tripati, A. K., and Fischer, W. W., 2011, The Magnitude and Duration of Late Ordovician-Early Silurian Glaciation: Science, v. 331, no. 6019, p. 903-906.

Supp data tables1-4.xlsx

TABLE S1. CARBON AND NITROGEN ISOTOPE, % CALCITE, % TOTAL ORGANIC CARBON (TOC) & % TOTAL NITROGEN (TN) DATA FROM TRURO, CANADIAN ARCTIC

Meterage	Calcite	TOC	TN	$\delta^{13}\text{C}_{\text{carb}}$	$\delta^{18}\text{O}_{\text{carb}}$	$\delta^{14}\text{C}_{\text{org}}$	$\delta^{15}\text{N}_{\text{TN}}$
m	wt.%	wt.%	wt.%	(‰, V-PDB)	(‰, V-PDB)	(‰, V-PDB)	(‰, AIR)
30.0	70.4	1.4	0.041	-1.59	-7.92	-29.87	2.05
31.8	59.3	1.9	0.050	-0.16	-4.80	-29.94	1.84
34.3	93.5	0.2	0.012	0.54	-5.34	-29.24	0.50
35.8	88.8	0.4	0.023	-0.47	-9.58	-29.61	1.56
36.9	90.8	0.1	0.014	0.55	-6.34	-29.83	1.08
37.2	80.2	0.5	0.015	0.65	-5.99	-30.27	2.32
39.0	76.9	0.8	0.038	-0.26	-6.35	-30.23	0.98
40.2	82.8	0.4	0.012	0.04	-6.20	-30.15	2.07
41.3	98.3	0.1	0.003	-0.52	-5.17	-29.85	1.52
41.6	78.5	1.1	0.048	-1.50	-6.28	-30.09	1.55
43.7	67.5	2.9	0.113	0.21	-5.47	-29.98	0.81
44.7	96.0	0.2	0.010	-1.24	-7.59	-29.46	1.67
45.5	92.6	0.4	0.017	0.34	-5.27	-30.25	1.34
45.7	31.7	3.3	0.135	0.90	-5.84	-29.73	0.91
46.0	70.8	3.5	0.091	0.61	-5.74	-30.47	0.44
46.2	29.2	4.5	0.155	0.75	-5.28	-28.01	1.29
46.4	22.6	12.1	0.247	0.56	-5.24	-27.13	0.67
46.5	41.4	4.9	0.177	1.26	-7.20	-27.45	1.73
46.6	46.4	1.8	0.094	1.00	-6.56	-27.24	2.51
46.8	57.9	0.7	0.049	1.63	-6.33	-27.77	2.56
47.0	73.0	0.7	0.035	1.38	-7.43	-27.72	3.11
47.5	44.6	0.7	0.065	0.82	-5.05	-28.45	3.81
47.9	49.1	0.8	0.064	0.53	-5.07	-28.62	3.37
48.4	51.7	0.8	0.063	0.61	-5.12	-28.66	3.38
49.1	77.4	0.8	0.040	0.27	-5.27	-28.64	1.38
49.4	50.8	1.9	0.103	0.29	-5.31	-27.93	1.41
49.6	21.3	8.3	0.300	0.31	-5.47	-29.57	0.18
50.0	8.7	4.9	0.179	-1.24	-6.31	-30.43	0.41
51.0	17.7	4.3	0.158	-1.46	-5.84	-30.36	0.45
51.5	21.0	5.4	0.185	-0.97	-6.25	-30.34	0.47
52.0	61.3	4.8	0.174	-1.28	-5.26	-29.94	0.87
52.5	57.3	3.8	0.143	-1.48	-4.83	-30.34	0.88

TABLE S2. CARBON AND NITROGEN ISOTOPE, % CALCITE, % TOTAL ORGANIC CARBON (TOC) & % TOTAL NITROGEN (TN) DATA FROM ELEANOR LAKE, CANADIAN ARCTIC

Meterage	Calcite	TOC	TN	$\delta^{13}\text{C}_{\text{carb}}$	$\delta^{18}\text{O}_{\text{carb}}$	$\delta^{14}\text{C}_{\text{org}}$	$\delta^{15}\text{N}_{\text{TN}}$
m	wt.%	wt.%	wt.%	(‰, V-PDB)	(‰, V-PDB)	(‰, V-PDB)	(‰, AIR)
49.50	92.7	0.26	0.013	-0.01	-3.28	-29.67	1.19
50.00	57.4	1.39	0.045	-1.18	-7.54	-30.07	1.04
50.50	80.1	2.51	0.067	-0.82	-7.59	-30.46	1.00
51.00	58.0	1.50	0.039	-0.58	-7.56	-30.25	0.50
51.50	83.7	1.64	0.043	-0.40	-7.35	-30.55	0.53
52.00	86.4	0.53	0.023	-0.37	-3.24	-29.95	1.22
52.50	88.5	0.32	0.015	-0.13	-3.20	-30.46	1.21
52.90	56.6	1.28	0.007	-1.60	-11.66	-26.68	-
53.00	94.8	0.13	0.007	-0.06	-3.42	-29.71	1.21
53.50	81.3	1.04	0.035	-1.25	-6.49	-30.29	0.72
54.00	87.9	0.51	0.022	-0.68	-5.72	-30.06	0.72
54.50	97.6	0.12	0.005	-2.09	-8.72	-30.35	-0.41
54.90	98.4	0.10	0.004	-0.63	-8.06	-29.30	0.76
55.00	33.2	9.46	0.273	0.77	-4.96	-28.53	0.13
55.10	51.3	3.43	0.123	0.68	-6.32	-28.31	0.51

55.20	48.5	6.26	0.192	2.19	-4.04	-27.61	0.55
55.30	62.0	0.31	0.028	0.48	-9.36	-26.34	2.34
55.35	70.6	0.09	no data	1.69	-5.77	-24.05	no data
55.40	79.6	0.06	0.010	-0.07	-6.20	-24.85	3.79
55.60	78.4	0.11	0.010	0.75	-6.19	-25.12	2.94
55.80	67.0	0.09	no data	1.51	-4.91	-23.88	no data
55.90	64.6	0.08	0.020	1.53	-5.14	-24.21	3.38
56.20	55.6	0.07	no data	1.25	-3.52	-24.54	no data
56.40	53.4	0.05	0.030	1.17	-4.12	-25.23	2.98
56.80	49.8	0.05	0.020	0.61	-4.61	-24.43	3.34
56.55	56.6	0.09	no data	0.62	-3.90	-25.97	no data
56.65	53.8	0.08	no data	0.34	-4.41	-24.88	no data
56.90	63.1	0.05	no data	0.69	-3.64	-24.71	no data
57.00	37.0	0.06	no data	0.43	-4.55	-25.54	no data
57.20	44.5	0.05	0.020	0.88	-4.24	-26.31	3.4
57.40	36.6	0.25	0.030	1.50	-4.57	-28.55	2.22
57.50	38.7	0.33	0.020	0.88	-4.96	-28.30	3.45
57.55	10.9	0.43	0.050	-3.01	-13.92	-29.26	3.86
57.60	29.0	2.14	0.080	-3.98	-14.23	-28.62	2.32
57.70	57.9	1.25	0.030	0.10	-6.59	-29.05	2.34
57.80	20.2	3.21	0.140	-0.34	-7.73	-29.41	0.54
57.90	no data	11.94	no data	no data	no data	-29.83	no data
58.00	32.6	9.65	0.340	-2.05	-12.94	-30.27	0.39
58.10	no data	2.97	no data	no data	no data	-30.13	no data
58.20	no data	6.18	no data	no data	no data	-30.22	no data
58.30	8.6	7.24	0.250	-1.04	-10.37	-30.44	0.23
58.70	28.3	4.45	0.160	-0.11	-8.45	-30.65	0.23
59.00	41.9	3.73	0.130	1.77	-7.17	-30.74	0.48

TABLE S3. CARBON AND NITROGEN ISOTOPE, % CALCITE, % TOTAL ORGANIC CARBON (TOC) & % TOTAL NITROGEN (TN) DATA FROM CAPE PHILLIPS SOUTH, CANADIAN ARCTIC

Meterage	Calcite	TOC	TN	d ¹³ C _{carb} (‰, V-PDB)	d ¹⁸ O _{carb} (‰, V-PDB)	d ¹⁴ C _{org} (‰, V-PDB)	d ¹⁵ N _{TN} (‰, AIR)
m	wt.%	wt.%	wt.%				
25.4	81.3	0.3	0.015	-0.74	-6.11	-28.89	1.98
25.5	64.9	1.0	0.043	-0.34	-5.59	-28.48	0.73
25.6	9.5	11.1	0.409	1.24	-6.48	-29.02	-0.71
25.8	71.9	2.1	0.066	0.67	-5.00	-29.21	-0.57
26.0	91.1	2.2	0.060	0.72	-5.70	-29.32	-1.17
26.3	81.3	2.1	0.071	1.43	-5.87	-29.39	-0.12
26.5	19.6	19.6	0.620	1.29	-9.70	-29.24	-1.34
26.8	17.4	6.7	0.272	-0.94	-8.10	-29.73	-0.32
27.0	91.6	2.4	0.050	0.59	-5.17	-30.20	-1.55
27.3	54.6	6.3	0.249	0.41	-6.67	-30.31	-0.57
27.5	95.0	1.7	0.046	-1.06	-6.06	-30.49	-0.90
27.8	16.5	9.1	0.358	-1.50	-6.59	-30.48	-0.21
28.0	95.1	1.9	0.033	-0.91	-6.67	-30.50	-1.57
28.3	15.2	11.6	0.392	-0.52	-7.53	-30.42	-0.90
28.5	90.7	1.5	0.049	-0.69	-5.43	-30.73	-1.18
28.8	55.1	2.7	0.085	0.34	-5.34	-30.72	-1.69
29.0	95.4	1.1	0.026	-1.67	-5.83	-30.76	-1.61
29.3	41.1	2.1	0.139	-0.22	-10.00	-30.69	-0.51
29.5	66.5	1.0	0.025	-0.36	-5.76	-30.89	-1.75
29.8	88.8	1.5	0.032	-0.97	-5.64	-30.90	-1.40
30.0	56.9	1.3	0.045	-0.47	-5.11	-30.74	-0.84
30.5	97.0	0.7	0.017	-5.17	-6.51	-30.99	-0.87
31.0	85.5	1.3	0.054	-0.71	-5.41	-30.18	0.35

31.5	98.3	0.2	0.010	-1.06	-5.37	-30.82	-1.47
32.0	86.2	2.1	0.067	-1.34	-5.63	-30.71	-1.37
32.5	93.5	2.1	0.034	-0.83	-5.46	-30.89	-1.29
33.0	82.0	4.2	0.047	-0.35	-5.61	-30.52	-0.68
33.5	99.9	0.0	0.000	-0.08	-5.37	-30.30	-0.40
34.0	89.8	2.6	0.067	-1.65	-6.68	-30.28	-0.87
34.5	92.2	1.4	0.046	-0.98	-6.85	-30.36	-0.65
35.0	88.9	0.9	0.022	-0.54	-5.92	-30.25	-0.82
36.0	84.4	3.3	0.081	-0.54	-6.83	-30.42	-0.77
36.5	87.3	1.7	0.023	-0.38	-6.23	-30.22	-0.66
37.0	70.5	2.0	0.036	0.03	-7.44	-30.12	-0.35
38.0	89.4	0.6	0.033	-0.34	-6.31	-30.32	-0.79
38.5	65.8	1.3	0.070	-0.30	-7.25	-29.96	-0.34
39.0	83.4	1.3	0.042	0.67	-7.73	-30.24	0.65
39.5	97.6	0.4	0.014	-0.32	-6.42	-30.50	0.34
40.0	90.1	1.0	0.032	1.23	-6.06	-30.13	1.33
40.5	97.7	0.2	0.008	-1.41	-5.60	-30.35	0.32
41.0	96.4	0.2	0.007	-1.92	-6.65	-29.64	0.55
41.5	92.3	0.2	0.014	0.05	-5.75	-29.13	2.87
41.7	19.9	5.3	0.163	-1.49	-2.92	-29.86	-1.26
42.0	60.3	6.0	0.142	-1.50	-6.39	-30.04	-1.43
42.5	94.6	0.2	0.016	0.41	-5.02	-30.62	-1.10
43.0	6.5	4.8	0.319	-0.33	-6.31	-29.99	-1.45
43.5	56.4	5.6	0.136	-2.10	-6.09	-30.07	-1.58
43.7	97.4	0.3	0.010	-2.38	-5.41	-29.58	-0.42
44.2	43.9	5.7	0.152	0.31	-5.61	-30.22	-1.25
44.6	99.7	0.1	0.002	-1.99	-5.70	-29.48	0.80
45.2	93.5	0.3	0.021	-0.38	-5.62	-29.22	2.64

TABLE S4. CARBON & NITROGEN ISOTOPE, % TOTAL ORGANIC CARBON (TOC) & TOTAL NITROGEN (TN) DATA FROM LEVIN AND ZADNÍ TŘEBÁŇ SECTIONS, CZECH REPUBLIC

sample number	Meterage m	Calcite wt.%	TOC wt.%	TN wt.%	d ¹³ C _{carb} (‰, V-PDB)	d ¹⁸ O _{carb} (‰, V-PDB)	d ¹⁴ C _{org} (‰, V-PDB)	d ¹⁵ N _{TN} (‰, AIR)
Levin (samples from 2008 interpolated into 2006 measured section)								
2006-33	29.00	10.20	0.18				-26.62	
2006-32	28.00	9.74	0.15		isotopes in carbonate		-27.34	
2006-31	27.10	11.16	0.15		not measured		-27.68	
2006-30	26.10	7.69	0.17				-27.30	
2006-29	25.10	6.93	0.19				-27.65	
2006-28	24.10	8.30	0.15				-27.29	
2006-27	23.10	7.02	0.17				-27.40	
2006-26	22.10	12.62	0.17				-27.71	
2006-25	21.10	8.01	0.20				-27.40	
2006-24	20.05	10.85	0.16				-27.45	
2006-23	19.15	5.65	0.19				-27.50	
2006-22	18.00	7.52	0.16				-27.69	
2006-21	17.00	9.51	0.19				-27.31	
2006-20	16.00	6.00	0.19				-27.44	
2006-19	15.00	6.12	0.16				-27.89	
2006-18	14.00	12.07	0.16				-27.89	
2006-17	13.00	10.34	0.16				-27.61	
2006-16	11.90	6.76	0.22				-27.85	
2006-15	10.90	11.42	0.18				-28.33	
2008-50	10.54	5.38	0.30	0.052			-29.00	3.26
2008-49	10.23	5.68	0.47	0.066			-29.51	3.15

2008-48	9.99	4.24	0.40	0.067		-29.10	3.05
2008-47	9.90	6.47	0.35	0.051		-29.07	3.15
2006-14	9.90	5.38	0.30			-28.53	
2008-46	9.35	11.16	0.26	0.028	upper diamictite bed	-28.15	3.36
2008-45	8.80	6.54	0.20	0.027		-27.91	3.64
2008-44	8.22	9.48	0.20	0.015		-28.04	4.06
2008-43	7.80	7.98	0.19	0.028		-27.83	3.35
2006-13	7.40	5.09	0.18			-27.88	
2008-21	7.39	6.31	0.25	0.054		-28.71	3.48
2008-22	7.29	5.94	0.30	0.061		-29.01	3.27
2008-23	7.06	4.35	0.26	0.053		-29.16	3.29
2008-24	6.83	5.91	0.27	0.050		-28.67	3.37
2008-25	6.60	5.28	0.37	0.056		-28.69	2.82
2006-12	6.50	7.90	0.27			-28.48	
2008-26	6.37	4.79	0.29	0.055		-28.74	3.51
2008-27	6.15	4.59	0.33	0.050		-28.81	3.45
2008-28	5.92	8.35	0.32	0.052		-28.67	3.62
2008-29	5.69	4.73	0.32	0.052		-28.70	3.25
2006-11	5.50	4.14	0.26			-28.77	
2008-30	5.46	3.97	0.38	0.057		-29.08	3.21
2008-31	5.23	9.06	0.27	0.055		-28.92	2.91
2008-32	5.01	6.93	0.33	0.045		-28.76	2.25
2008-33	4.78	7.52	0.32	0.054		-29.03	3.14
2008-34	4.55	6.21	0.41	0.066		-29.22	2.73
2006-10	4.50	5.24	0.40			-28.78	
2008-35	4.49	6.99	0.32	0.044		-27.98	2.94
2008-36	4.46	16.40	0.21	0.027	lower diamictite bed	-28.17	3.40
2008-37	4.32	6.53	0.35	0.059		-28.39	2.88
2008-38	4.07	9.42	0.39	0.049		-22.53	2.99
2006-9	4.00	5.60	0.24			-26.33	
2008-39	3.92	8.76	0.23	0.045		-25.85	2.93
2008-40	3.82	8.53	0.22	0.045		-27.68	2.75
2008-41	3.57	9.21	0.24	0.046		-27.68	2.75
2008-42	3.45	12.75	0.22	0.051		-27.17	3.15
2006-8	3.40	8.50	0.16			-25.73	
2008-1	3.32	12.47	0.21	0.058		-28.05	2.89
2006-1	3.20	22.40	0.10			-26.03	
2008-2	3.20	21.04	0.16	0.047		-26.97	2.98
2008-3	3.13	52.66	0.12	0.029		-25.91	3.12
2006-2	3.10	60.79	0.07		Pernik Bed	-27.18	
2008-4	3.07	51.72	0.11	0.031		-27.95	3.29
2006-3	3.00	7.09	0.07			-25.34	
2008-5	3.00	12.23	0.13	0.049		-25.31	3.01
2008-6	2.94	5.94	0.10	0.063		-29.32	2.95
2008-7	2.81	9.31	0.19	0.060		-29.34	3.06
2006-4	2.60	7.24	0.12			-25.58	
2008-8	2.57	10.85	0.20	0.063		-29.35	3.00
2008-9	2.32	6.41	0.15	0.065		-29.61	2.90
2008-10	2.07	6.29	0.13	0.058		-27.15	2.81
2006-5	2.00	4.30	0.12			-26.57	
2008-11	1.82	5.29	0.17	0.063		-26.10	2.71
2008-12	1.58	16.39	0.23	0.047		-29.45	2.87
2008-13	1.33	5.94	0.19	0.056		-28.08	2.72
2008-14	1.08	5.32	0.15	0.062		-29.59	3.12
2006-6	1.00	4.65	0.11			-27.46	
2008-15	0.83	4.45	0.17	0.065		-29.45	3.16
2008-16	0.58	4.33	0.16	0.066		-29.49	3.08
2008-17	0.34	3.38	0.20	0.069		-29.49	3.50

2008-18	0.09	3.59	0.21	0.061		-29.47	3.08
2006-7	0.00	3.97	0.11			-28.57	
2008-19	-0.53	6.73	0.17	0.051		-28.12	2.93
2008-20	-1.15	5.06	0.16	0.067		-29.59	3.36

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2008-7	7.80	2.91	0.18	-		-27.53	-
2008-6	7.10	3.21	0.19	-	Upper Diamictite Bed	-27.48	-
2008-1	6.55	3.21	0.14	-		-27.86	-
2008-2	6.46	4.89	0.27	0.051		-28.53	2.09
2008-3	6.30	6.36	0.25	0.052		-27.48	2.56
2008-4	6.05	5.66	0.29	0.059		-28.37	3.20
2008-5	5.90	5.67	0.25	0.054		-28.25	3.59
2008-8	5.70	5.83	0.31	0.063		-28.33	3.39
2008-9	5.50	5.36	0.28	0.052		-28.30	2.60
2008-10	5.30	4.78	0.28	0.050		-28.13	2.56
2008-11	5.10	6.43	0.26	0.059		-28.28	3.22
2008-12	4.90	5.95	0.30	0.060		-28.14	3.41
2008-13	4.70	5.24	0.36	0.066		-28.02	3.35
2008-14	4.55	6.47	0.29	0.062		-29.04	2.38
2008-15	4.50	7.46	0.28	0.052		-27.70	3.53
2008-16	4.42	4.64	0.25	0.047	Lower Diamictite Bed	-28.17	3.80
2008-17	4.38	3.66	0.21	-		-28.45	-
2008-18	4.32	5.70	0.25	0.044		-27.46	2.48
2008-19	4.20	5.32	0.25	0.056		-28.05	3.38
2008-20	4.00	6.02	0.25	0.054		-27.93	3.64
2008-21	3.80	4.53	0.23	0.048		-27.98	3.38
2008-22	3.60	5.12	0.23	0.044		-27.98	2.47
2008-23	3.40	5.53	0.23	0.049		-27.75	3.56
2008-24	3.20	6.35	0.28	0.046		-27.73	2.51
2008-25	3.00	6.26	0.21	0.052		-27.29	3.93
2008-26	2.80	5.13	0.29	0.064		-27.55	2.92
2008-27	2.60	5.15	0.28	0.067		-27.62	3.48
2008-28	2.40	5.70	0.29	0.067		-27.58	3.28
2008-29	2.20	4.68	0.39	0.070		-28.40	3.28
2008-30	2.00	6.78	0.35	0.064		-28.37	3.87
2008-31	1.95	8.33	0.26	0.056	prob. fault repeat #32-33	-27.70	3.35
2008-38	1.88	4.84	0.23	0.057	Chondrites bearing bed	-27.66	2.36
2008-32	1.85	8.97	0.17	0.061	Mucronaspis beds	-27.98	3.01
2008-33	1.83	8.76	0.19	0.063	Mucronaspis beds	-27.86	2.90
2008-34	1.80	10.40	0.24	0.064	top Pernik Bed with <i>M. ojsuensis</i>	-27.77	3.02
2008-35	1.75	50.80	0.14	0.029	burrowed calc mdst Pernik	-28.50	2.76
2008-36	1.60	50.35	0.12	0.030	lower Pernik	-28.24	3.28
2008-37	1.55	6.86	0.18	0.058		-28.28	3.20
2008-39	1.50	17.18	0.19	0.052		-28.48	3.10
2008-40	1.30	5.05	0.17	0.056		-28.66	3.08
2008-41	1.10	7.00	0.17	0.044		-28.42	2.87
2008-42	0.90	7.93	0.17	0.062		-28.57	3.27
2008-43	0.70	5.84	0.15	0.059		-28.88	2.86
2008-44	0.50	5.94	0.17	0.064		-28.84	3.11
2008-45	0.30	17.30	0.22	0.058		-28.82	2.86
2008-46	0.00	4.97	0.18	0.064		-28.72	3.04

- below limit for accurate measurement