

GSA Data Repository

(B20323)

Integrated chemostratigraphy and biostratigraphy of the Windermere Supergroup, northwestern Canada: Implications for Neoproterozoic correlations and the early evolution of animals

Guy M. Narbonne

Alan J. Kaufman

Andrew H. Knoll

Appendix 2: Petrographic description and sedimentary facies of Windermere Supergroup and Lower Cambrian carbonates

Appendix 3: Stratigraphic location of samples. The letter designation for each sample refers to the geographic locality from which it was collected (see Fig. 2).

Appendix 2: Petrographic description and sedimentary facies of Windermere Supergroup and Lower Cambrian

carbonates			
sample	location ¹	petrographic description	facies
N88-59A	A9	massive, arenaceous lime mudstone w/trilobite fragments	Offshore subtidal
N88-59B	A9	massive, arenaceous lime mudstone w/trilobite fragments	"
JL-21.5	A8	intraclastic, peloidal, arenaceous lime packstone w/clay	"
JLB-141.4	A7	stylolithized dolopackstone	Nearshore subtidal
JLB-143.9	A7	dolopackstone w/clay	"
I-5	F4	arenaceous, veined lime mudstone/packstone	"
N91-14A	A6	arenaceous dolopackstone	Subtidal ooid-peloid shoal
N91-14B	A6	arenaceous, oolitic lime mudstone	"
I-4	F3	massive, arenaceous lime packstone	"
I-3	F3	intraclastic, arenaceous lime mudstone w/clay	Mid- to off-shore subtidal
I-2	F2	intraclastic, arenaceous lime packstone w/clay and chlorite	"
N91-13D1	A5	intraclastic, peloidal, arenaceous lime mudstone	"
N91-13D2	A5	intraclastic, peloidal, arenaceous lime mudstone w/clay	"
N91-13D3	A5	intraclastic, peloidal lime packstone	"
I-1A	F1	massive, arenaceous lime mudstone	"
I-1B	F1	massive, arenaceous lime mudstone	"
N91-13C	A4	arenaceous dolopackstone	Dolostone intraclasts in nearshore sandstone
N91-13B	A3	dolomitic sandstone	"
N91-13A	A2	stylolithized dolopackstone	Subtidal
N92-1A	A1	arenaceous lime packstone	"
N92-1B	A1	calcitic sandstone	"
N91-R1	B29	arenaceous, stylolithized dolopackstone	"
N91-R2	B29	dolopackstone	"

Appendix 2: Continued

sample	location ¹	petrographic description	facies
N91-23O	B28	microbial lime boundstone	Microbialite boulder in deep water debris flow
N91-23N	B27	laminated, organic-rich lime mudstone	Peri-platform lime mud on a deep-water slope
N91-23M	B26	massive, arenaceous lime packstone	"
N91-23L	B25	laminated, organic-rich lime mudstone	"
N91-23K	B24	laminated, arenaceous lime mudstone/packstone	"
N91-23J	B23	massive, arenaceous lime mudstone/packstone	"
N91-23I	B22	intraclastic, peloidal, arenaceous lime mudstone	"
N91-23H	B21	laminated lime mudstone	"
N91-23G	B20	laminated, arenaceous lime packstone w/clay	"
N91-23F	B19	laminated, organic-rich lime mudstone	"
N91-23E	B18	laminated, stylolitized, arenaceous dolopackstone	"
N91-23D	B17	massive dolopackstone	"
N91-23C	B16	laminated, stylolitized dolopackstone w/clay	"
N91-23B	B15	laminated, organic-rich lime mudstone	"
N91-23A	B14	laminated, organic-rich, arenaceous lime mudstone	"
N91-21GT12	B13	massive dolopackstone	"
N91-21GT1	B12	laminated, stylolitized dolopackstone	"
N91-21-26	B11	laminated, arenaceous, organic-rich lime mudstone	"
N91-21-25	B10	massive lime packstone	"
N91-21-23	B9	massive lime packstone w/clay	"
N91-21-21	B8	arenaceous, oolitic lime mudstone/packstone w/clay	Resedimented ooids on a deep-water slope
N91-21-19	B7	arenaceous, oolitic lime mudstone/packstone w/clay	"

Appendix 2: Continued

sample	location ¹	petrographic description	facies
N91-21-17-5	B6	laminated, organic-rich lime mudstone	Peri-platform lime mud on a deep-water slope
N91-21-17-1	B5	massive lime mudstone	"
N91-22-33	B4	laminated, arenaceous lime mudstone/packstone	"
N91-22-32B	B3	intraclastic, peloidal, arenaceous lime packstone	Shallow-water slide block on a deep-water slope
N91-22-32A	B2	intraclastic, peloidal, arenaceous lime mudstone w/clay	"
N91-22-31	B1	laminated, organic-rich lime mudstone	"
N89-128A	C8	massive lime mudstone w/recrystallized aragonite rosettes	"Cap carbonate"
N92-14A	C7	laminated dolomudstone	"
N91-7	D2	massive, stylolitized dolomudstone w/chert veins	"
N89-137	D1	arenaceous diamictite w/fine-grained lime mudstone clasts	Clasts of shallow-water Keele limestone in diamictite
N92-14B	C6	massive lime mudstone/packstone	Nearshore subtidal
N92-14C	C5	laminated, stylolitized lime packstone w/clay	"
N92-14D	C4	massive, organic-rich lime mudstone	"
N92-14G	C3	massive, oolitic lime packstone	Subtidal ooid-peloid shoal
N92-14H	C2	masive lime mudstone/packstone	"
N92-14I	C1	massive lime packstone	"
N89-132	E1	massive lime packstone	Mid- to off-shore subtidal

¹ see location map in Fig. 2

SECTION SAMPLES

