

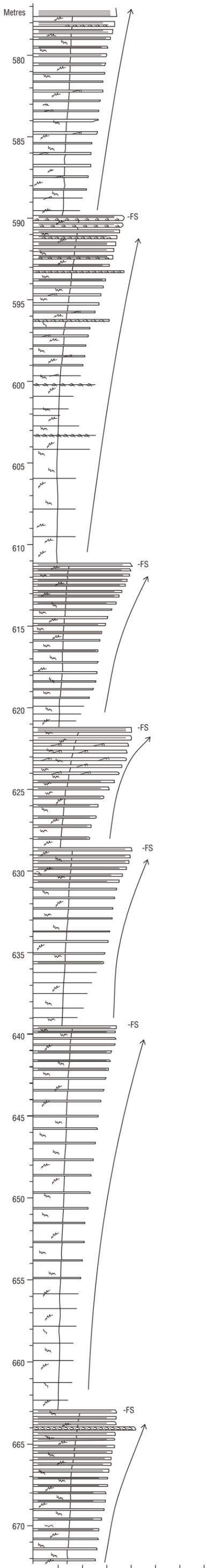
- c-up sequence of thinly interbedded greenish grey bioturbated mudstone and grey siltstone to silty very fine-grained sandstone, silts:mud=1:5.

- c-up sequence of thinly interbedded greenish grey mudstone and grey siltstone to silty very fine-grained beds up to 10 cm thick, bioturbated, only a few thin bioclastic calcisiltite beds, silts:mud=1:10 at base, 1:2 at top.

GEORGIAN  
BAY  
Fm

- c-up sequence of thinly interbedded dark grey to greenish grey mudstone and grey sharp based siltstone beds and grey bioclastic matrix-supported beds, siltstone beds up to 15 cm and sandy with fossil fragment lags and horizontal lamination near top, bioclastic beds up to 10 cm with crinoid/brachiopod/bryozoan fragments floating in muddy matrix, bioturbated, silts:sh=1:3.

- dark grey mudstone bioturbated, with thin grey siltstone beds up to 2 cm thick and thin bioclastic fossil fragment beds up to 1cm thick, sharp bases, fossil fragments (brachiopods/crinoids) float in muddy matrix.



- c-up sequence thinly interbedded greenish grey bioturbated muddy siltstone and very fine-grained ss up to 30 cm, sharp bases, minor shelly lags, horizontal and low-angle lamination.

- c-up sequence thinly interbedded greenish grey bioturbated muddy siltstone and very fine-grained sandstone, up to 20 cm, bioturbated, sharp bass with shelly lags, few bioclastic beds, sharp top.

- greenish grey mudstone, bioturbated, few thin silty very fine-grained sandstone beds up to 5 cm with some fossil fragments.

- c-up sequence of thinly interbedded red silty mudstone and siltstone to very fine-grained sandstone, up to 10 cm thick, sharp bases, very calcareous, bioturbated.

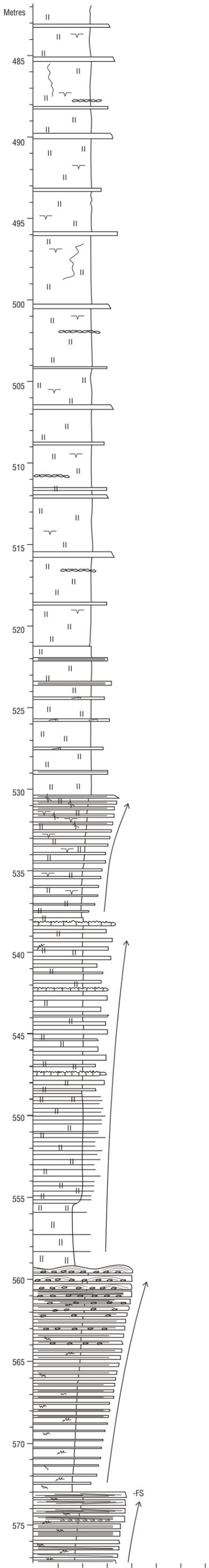
GEORGIAN  
BAY  
Fm

- c-up sequence of thinly interbedded red silty mudstone and siltstone to very fine-grained sandstone, up to 20 cm thick, sharp bases, very calcareous, bioturbated.

- c-up sequence thinly interbedded dark greenish grey to reddish silty mudstone and thin greenish grey silty very fine-grained sandstone, bioturbated, horizontal lamination.

- c-up sequence of thinly interbedded greenish grey bioturbated mudstone and grey siltstone to very fine-grained sandstone up to 5 cm, sharp bases, horizontal lamination, sharp top.

- c-up sequence of thinly interbedded greenish grey bioturbated silty mudstone and grey sandy siltstone to very fine-grained sandstone up to 10 cm thick, sharp bases and tops, rip ups, horizontal and low-angle lamination, one 15 cm bioclastic bed near top, ss:silts=2:1 at top.



- red pedogenic sandy siltstone, massive, uniform, blocky, micaceous, nodular ped structures, slickensides, desiccation cracks, networks of calcite-filled veins, few evaporite crystal moulds near top, few red very fine-grained sandstone beds up to 20 cm thick with sharp bases, rip ups, horizontal lamination and rxl, ss:silts=1:20.

- red pedogenic sandy siltstone, uniform, blocky, massive, with few red very fine-grained sandstone beds up to 20 cm thick, horizontal lamination, rxl.

QUEENSTON  
Fm

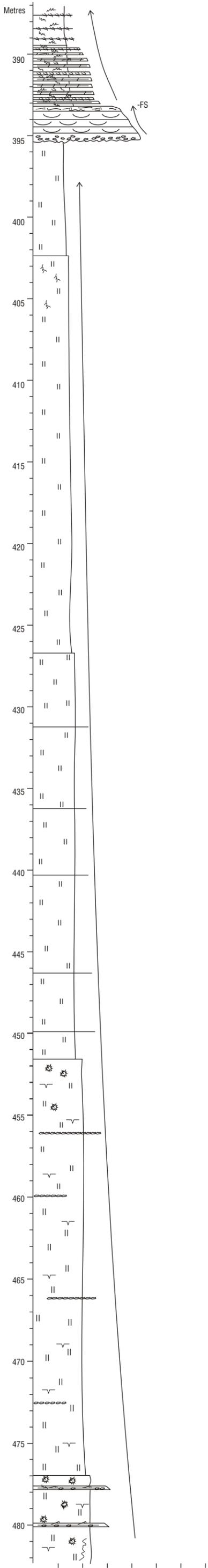
- c-up sequence thinly interbedded red pedogenic siltstone and reddish grey very-fine-grained sandstone, beds up to 10 cm, with horizontal to low-angle lamination, roots, desiccation cracks.

- thinly interbedded red siltstone and greenish very fine-grained sandstone, blocky, massive, pedogenic, beds up to 30 cm with red shale rip ups, several calcrete beds.

- thinly interbedded red pedogenic rubbly siltstone and greenish siltstone to very fine-grained sandstone, beds up to 5 cm, ss:silts=1:2.

- red pedogenic muddy siltstone, uniform, blocky, rubbly, slickensides, abundant tiny green reduction spots, few thin greenish silty very fine-grained sandstone beds.

- c-up sequence thinly interbedded reddish siltstone and reddish grey very fine-grained sandstone up to 30 cm thick, burrowing near base decreases upward, abundant red shale rip-ups at sharp bases in upper half, horizontal and low-angle lamination common, HCS at top, very sharp top, ss:silts=1:5 at base, 3:1 at top.



MANITOULIN  
Fm

- f-up sequence thinly interbedded grey bioclastic sandy dolomitic limestone and grey sandy limestone and green shale, thoroughly burrowed, beds up to 10 cm are sharp based with horizontal and low-angle lamination, minor rxl, fossil fragments include crinoids/brachiopods/bryozoans/corals throughout, sharp top.

WHIRLPOOL  
Fm

- light grey fine-grained sandstone, quartz-rich, well sorted, f-up, sharp erosive base, medium bedded, large green shale rip ups at base, all txb with minor rxl at top, thin green shale partings at top, sharp top.

- red pedogenic silty mudstone, very uniform, massive, blocky, sharp irregular top.

- red pedogenic muddy siltstone to silty mudstone, uniform, massive, blocky, mottled greenish zones, rootlets near top?.

QUEENSTON  
Fm

- red pedogenic muddy siltstone, few mottled greenish zones, blocky, uniform, massive, peds and cutans abundant, rare thin greenish sandy siltstone beds up to 5 cm thick.

- red pedogenic sandy siltstone, blocky, massive, uniform, slickensides, desiccation cracks, few green horizons of caliche glaebules up to 2 cm thick, few evaporite crystal molds near top.

UPPER ORDOVICIAN/LOWER SILURIAN - SOUTHERN ONTARIO  
 COLLINGWOOD/BLUEMOUNTAIN/GEORGIAN BAY/QUEENSTON/WHIRLPOOL/MANITOULIN/CABOTHEAD/  
 GRIMSBY/THOROLD/REYNALES/IRONDEQUOIT/ROCHESTER FMS  
 U.S. Steel DDH #1 (1952)  
 Lot 21, conc I, Charlotteville Twp., Norfolk Co.  
 Lat. 42°40'N Long. 80°20' W

