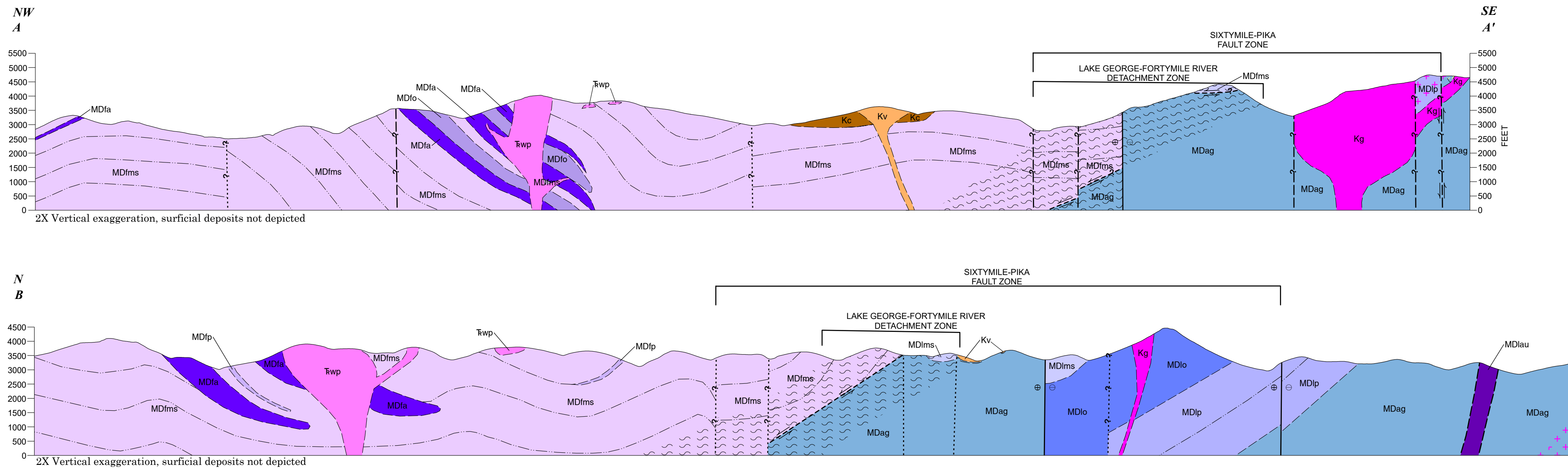
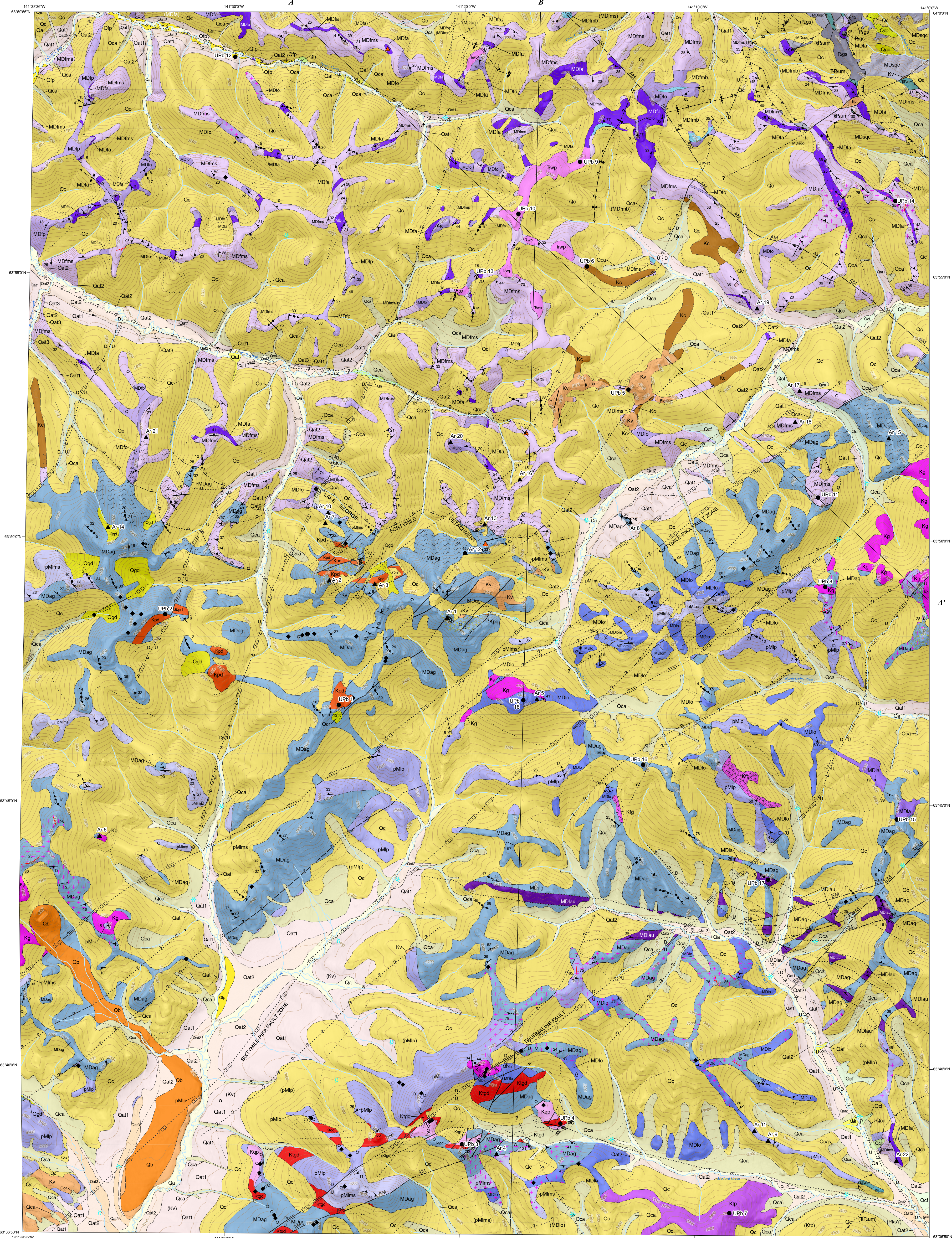




Northeast Tanacross Geologic Map,
Tanacross D-1, and parts of D-2, C-1, and C-2 Quadrangles, Alaska

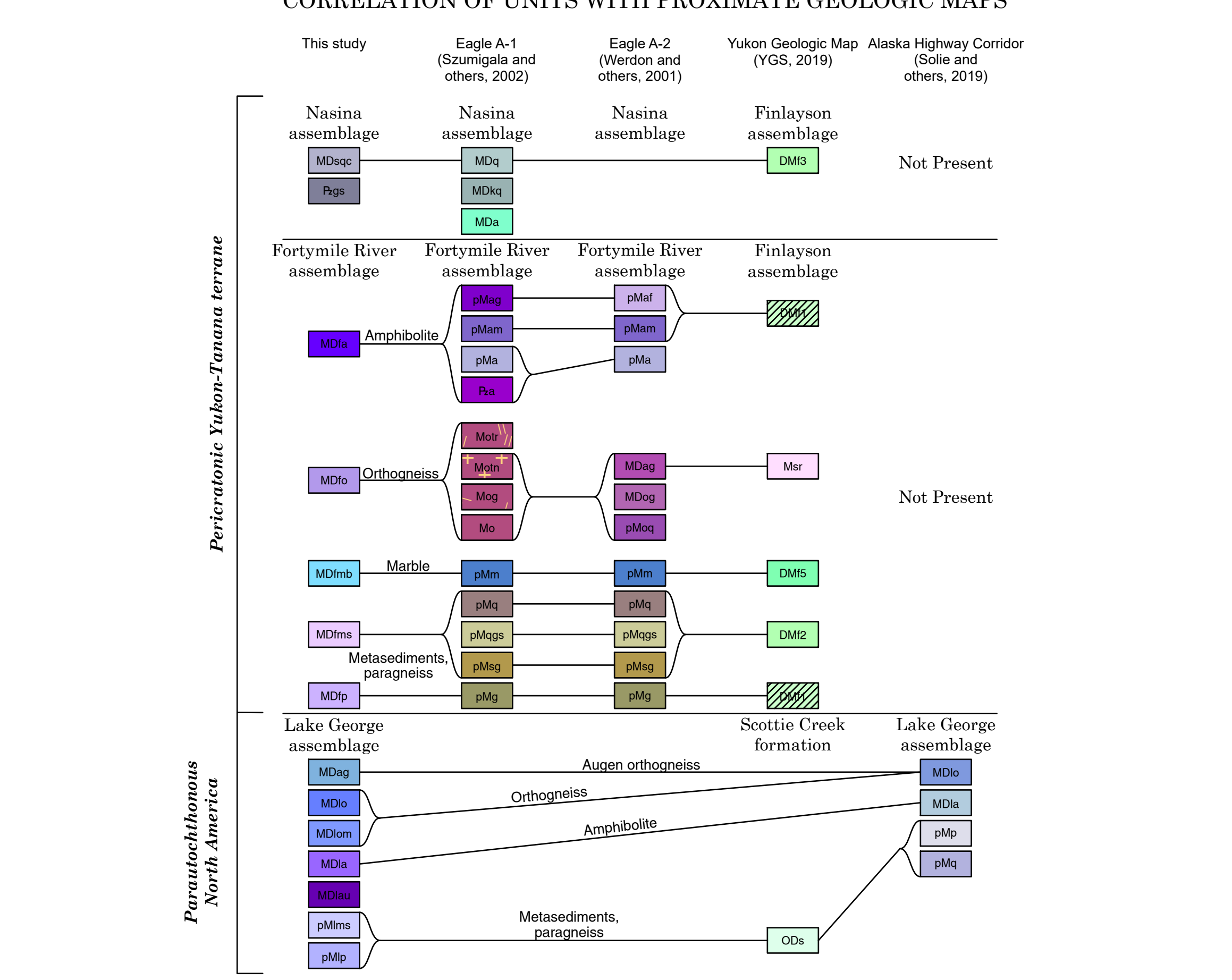
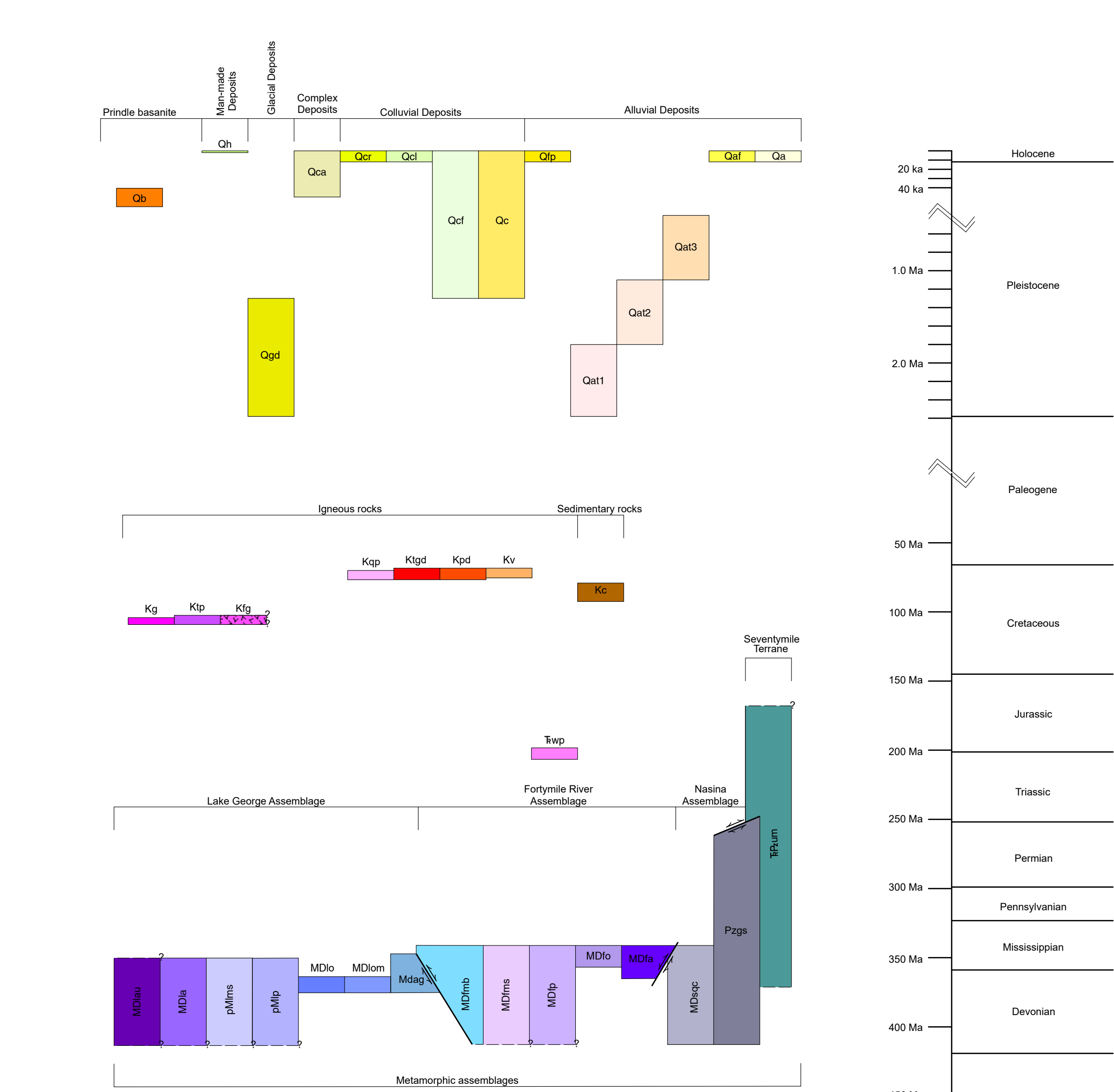
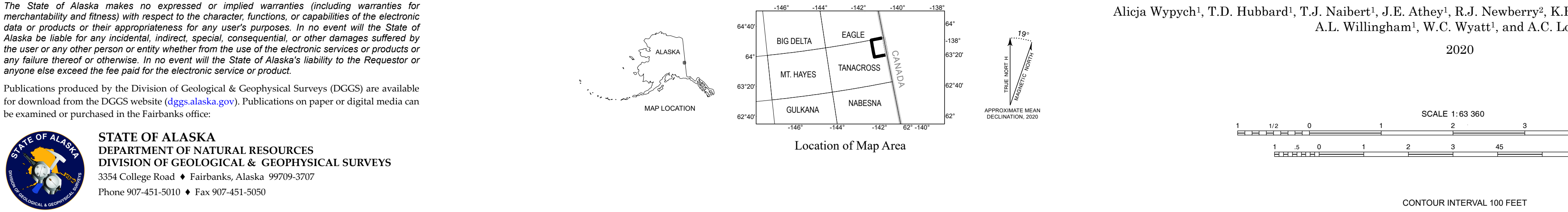


Table 1. ⁴⁰Ar/³⁹Ar age data for samples collected by DGOS in the northeastern Tanacross Quadrangle.

Label	Sample number	Map unit	Lithology	Latitude	Longitude	Material analyzed	Best Age (Ma) ± 1 sigma	Reference
Ar 1	17MBW135	Kv	sericite altered folio-illite	63.8089	-141.3442	sericite	63.7 ± 0.5	Naibert and others (2018)
Ar 2	17MBW228	Kv	dacite	63.8206	-141.2485	whole rock	70.3 ± 0.5	Naibert and others (2018)
Ar 3	17MBW213	Kpdl	diorite	63.8195	-141.3902	biotite	65.3 ± 0.7	Naibert and others (2018)
Ar 4	18KS116	Klp	altered granite	63.6207	-141.3072	muscovite	57.1 ± 1.4	Naibert and others (2018)
Ar 5	17BA005	Kg	pegmatite	63.7833	-141.2799	whole rock	105.2 ± 0.7	Naibert and others (2018)
Ar 6	17KS109	Kg	granite	63.7893	-141.3010	biotite	110.3 ± 1.5	Naibert and others (2018)
Ar 7	18TJ008	MDag	orthogneiss	63.8385	-141.4318	whole rock	109.5 ± 1.5	Naibert and others (2018)
Ar 8	18XW069	pMms	paragneiss	63.8092	-141.2336	whole rock	111.2 ± 1.4	Naibert and others (2018)
Ar 9	19KS133	MDls	orthogneiss	63.6443	-141.1144	whole rock	111.2 ± 1.7	Naibert and others (2018)
Ar 10	18KS062	MDls	semischist	63.8419	-141.4298	whole rock	112.1 ± 1.6	Naibert and others (2018)
Ar 11	18KS131	pMms	quartz schist	63.6474	-141.1243	whole rock	114.2 ± 2.5	Naibert and others (2018)
Ar 12	18FT312	MDag	augen orthogneiss	63.6381	-141.2906	whole rock	115.0 ± 1.7	Naibert and others (2018)
Ar 13	19KS208	MDag	orthogneiss	63.8384	-141.3180	whole rock	115.2 ± 2.0	Naibert and others (2018)
Ar 14	18KS150	MDag	augen orthogneiss	63.8388	-141.3871	whole rock	115.8 ± 5.0	Naibert and others (2018)
Ar 15	18M1W126	MDls	augen orthogneiss	63.8620	-141.0260	whole rock	120.9 ± 1.4	Naibert and others (2018)
Ar 16	18KN259	MDms	quartz schist	63.8527	-141.2528	whole rock	120.7 ± 2.0	Naibert and others (2018)
Ar 17	18M1W132	MDls	orthogneiss	63.8608	-141.0228	biotite	122.4 ± 2.1	Naibert and others (2018)
Ar 18	17ET008	MDms	quartzite	63.8711	-141.3000	whole rock	149.4 ± 2.0	Naibert and others (2018)
Ar 19	18KN356	MDms	paragneiss	63.9069	-141.1234	whole rock	152.5 ± 1.9	Naibert and others (2018)
Ar 20	18KN122	MDls	metadiorite	63.8643	-141.3125	whole rock	161.3 ± 2.5	Naibert and others (2018)
Ar 21	18MBW389	MDms	paragneiss	63.8632	-141.5694	whole rock	163.9 ± 2.7	Naibert and others (2018)
Ar 22	18ET177	MDls	amphibolite	63.6381	-141.0233	whole rock	167.1 ± 2.0	Naibert and others (2018)

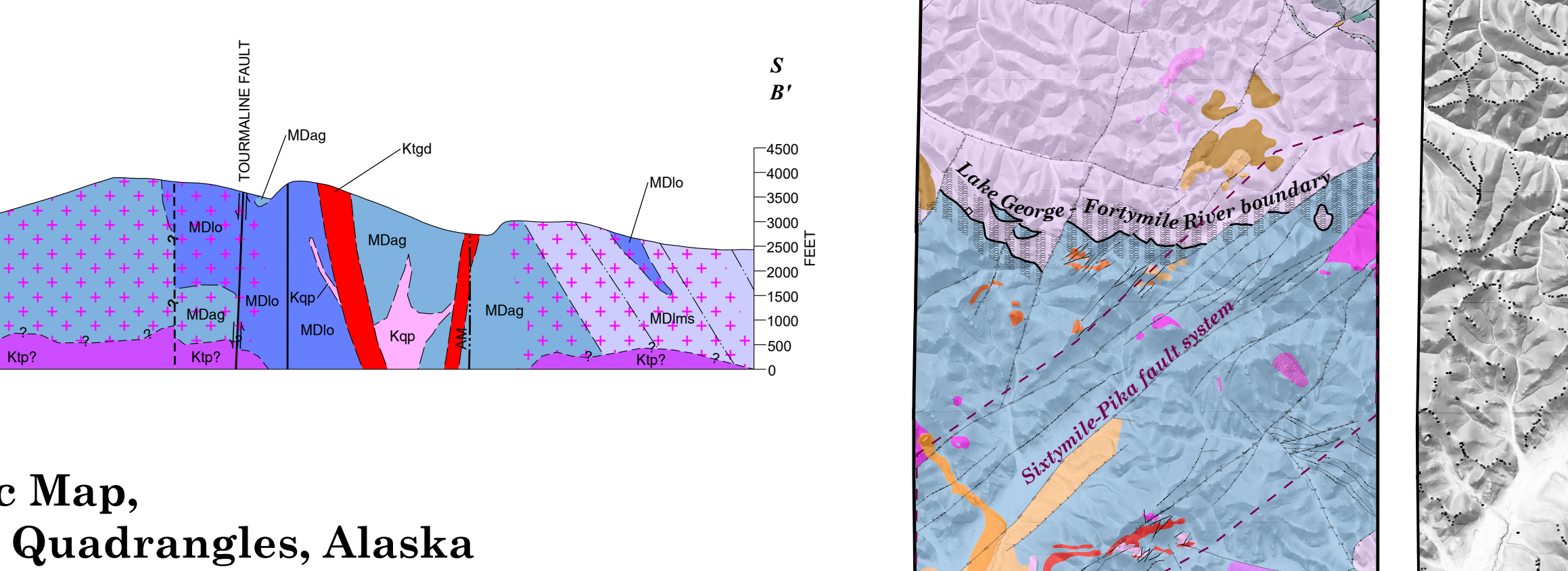


Table 2. U/Pb age data for samples collected by DGOS in the northeastern Tanacross Quadrangle.

Label	Sample number	Map unit	Lithology	Latitude	Longitude	Material analyzed	Best Age (Ma) ± 2 sigma	Comments	Reference
UPb 1	17MLW000	Kv	andolite	63.7812	-141.4213	zircon	67.7 ± 0.9	crystallization age (n = 20)	Todd and others (2019)
UPb 2	17ET007	Kpdl	diorite porphyry	63.8003	-141.4337	zircon	70.3 ± 0.5	crystallization age (n = 20)	Todd and others (2019)
UPb 3	17AW009	Kap	quartz porphyry	63.9428	-141.3318	zircon	70.6 ± 0.9	crystallization age (n = 13)	Todd and others (2019)
UPb 4	17AW013	Kpdl	granodiorite	63.6494	-141.3820	zircon	71.0 ± 1.1	crystallization age (n = 27)	Wypych and others (2020)
UPb 5	17MLW028	Kv	andolite	63.8811	-141.2104	zircon	71.5 ± 3.0	crystallization age (n = 1)	Todd and others (2019)
UPb 6	18ET382	Kc	andolite	63.9198	-141.4454	zircon	106.1 ± 0.93	crystallization age (n = 37)	Wypych and others (2020)
UPb 7	18AW153	Kp	granite	63.6213	-141.1419	zircon	110.3 ± 1.4	crystallization age (n = 20)	Wypych and others (2020)
UPb 8	18ET210	Kg	granite	63.8189	-141.0744	zircon	114.1 ± 1.4	crystallization age (n = 18)	Wypych and others (2020)
UPb 9	18MBW250	Wep	granodiorite	63.9329	-141.2507	zircon	203.7 ± 1.6	crystallization age (n = 23)	Wypych and others (2020)
UPb 10	18AW241	Wep	granite	63.9303	-141.2547	zircon	206.2 ± 2.6	crystallization age (n = 20)	Wypych and others (2020)
UPb 11	17ET027	MDms	quartzite	63.8471	-141.0705	zircon	228 ± 2.4	metamorphic age (n = 20)	Wypych and others (2020)
UPb 12	18AW278	MDms	quartzite	63.9853	-141.0807	zircon	264.9 ± 1.6	crystallization age (n = 18)	Wypych and others (2020)
UPb 13	18ET395	MDls	orthogneiss	63.9164	-141.3246	zircon	341.1 ± 2.3	crystallization age (n = 23)	Wypych and others (2020)
UPb 14	18EA011	MDls	amphibolite	63.9007	-141.0244	zircon	350.9 ± 3.8	crystallization age (n = 17)	Wypych and others (2020)
UPb 15	18AW074	MDls	amphibolite	63.7456	-141.0233	zircon	351.5 ± 4.3	crystallization age (n = 24)	Wypych and others (2020)
UPb 16	17AW017	MDag	augen orthogneiss	63.7627	-141.2040	zircon	355.0 ± 4.5	crystallization age (n = 19)	Todd and others (2019)
UPb 17	18FT213	MDag	amphibolite	63.7205	-141.1148	zircon	360.5 ± 1.6	crystallization age (n = 13)	Wypych and others (2020)
UPb 18	17EA001	MDag	orthogneiss	63.7829	-141.2886	zircon	370.6 ± 9.6	crystallization age (n = 7)	Todd and others (2019)

