

Appendix I: List of all sites and locations included in this request. “Map ID” defines what the points on the Maps in Appendix II indicate, “Map #” indicates the maps in Appendix II on which the sites appear.

Terrestrial Long Term Experimental plots	Latitude	Longitude	Map ID	MAP #
LTER Heath Tundra	68.64083	-149.5875200	Center of plot group	2, 4, 7, 23
LTER Low Nutrient Moist Acidic Tussock Tundra	68.621155	-149.608354	Center of plot group	2, 6, 7, 21
LTER Moist Acidic Tussock Tundra	68.62441	-149.611343	Center of plot group	2, 4, 7, 20
LTER Moist Acidic Tussock Tundra 1981 plots	68.629453	-149.576793	Center of plot group	2, 4
LTER Moist NonAcidic NonTussock Tundra	68.633959	-149.638566	Center of plot group	2, 5, 19
LTER Moist NonAcidic Tussock Tundra	68.634507	-149.643279	Center of plot group	2, 5, 18
LTER Shrub Tundra Block 1	68.63873	-149.568125	Center of plot group	2, 4, 7, 17
LTER Shrub Tundra Block 2	68.635606	-149.587429	Center of plot group	2, 4, 17
LTER Wet Sedge Tundra Block 1	68.62525	-149.602503	Center of plot group	2, 6, 7, 22
LTER Wet Sedge Tundra Block 2 & 3	68.647183	-149.577069	Center of plot group	2, 3, 22
Chapin Bret-Harte Species Removal	68.622297	-149.611766	Center of plot group	2, 6, 7
Tang experimental plots	68.621991	-149.607305	Center of plot group	2, 6
Walker 1994 Snow Fence Moist Acidic Tussock	68.620115	-149.603257	Center of plot group	2, 6
Walker 1994 Snow Fence Dry Heath	68.622465	-149.598047	Center of plot group	2, 6
Bret-Harte Fence#1 tussock	68.62112	-149.6141	West end	2, 6
Bret-Harte Fence#1 tussock	68.62108	-149.61261	East end	2, 4
Bret-Harte Fence#2 low_shrub	68.63354	-149.57623	East end	2, 4
Bret-Harte Fence#2 low_shrub	68.63357	-149.5777	West end	2, 4
Bret-Harte Fence#3 high_shrub	68.63738	-149.56853	East end	2, 4
Bret-Harte Fence#3 high_shrub	68.63743	-149.56935	West end	2, 4
Bret-Hart Fence#4 high_shrub	68.63873	-149.56573	East end	2, 4
Bret-Hart Fence#4 high_shrub	68.63872	-149.56651	West end	2, 4
Terrestrial Vegetation Monitoring Sites	Latitude	Longitude	Map ID	Map #
Toolik Grid NE corner	68.625626	-149.594645	Bounding Corner	6
Toolik Grid NW corner	68.625858	-149.621169	Bounding Corner	6
Toolik Grid SE corner	68.617299	-149.592993	Bounding Corner	6

Toolik Grid SW corner	68.616794	-149.620187	Bounding Corner	6
Imnavait Creek Grid NE corner	68.61733	-149.297434	Bounding Corner	8
Imnavait Creek Grid NW corner	68.617311	-149.323068	Bounding Corner	8
Imnavait Creek Grid SE corner	68.608344	-149.29827	Bounding Corner	8
Imnavait Creek Grid SW corner	68.608413	-149.322667	Bounding Corner	8
Terrestrial--Imnavait ¹⁵N monitoring plots	Latitude	Longitude	Map ID	Map #
Imnavait 15N Plots (all plots)	68.607936	-149.302743	~ center of all 15N plots	8
Imnavait 15N plot A	68.608878	-149.29917	Center of plot group	8
Imnavait 15N plot B	68.608132	-149.298997	Center of plot group	8
Imnavait 15N plot C&D	68.607815	-149.307386	Center of plot group	8
Imnavait 15N plot E&F	68.607433	-149.306729	Center of plot group	8
Imnavait 15N plot G&H	68.607398	-149.306628	Center of plot group	8
Imnavait 15N plot I&J	68.606972	-149.309186	Center of plot group	8
Imnavait 15N plot K	68.608363	-149.311638	Center of plot group	8
Imnavait 15N plot L	68.607565	-149.312629	Center of plot group	8
Land Water Interactions Sites	Latitude	Longitude	Map ID	Map #
Tussock Watershed	68.62155	-149.615492	Center of Plot Group	2, 6, 7
Tussock Watershed Weir	68.6235	-149.616864	Center of weir	2, 6, 7
Imnavait WT 7&8	68.610685	-149.310741	Center of Plot Group	8
Imnavait Weir	68.616928	-149.317407	Center of Weir	8
Imnavait pools	68.603	-149.311	Center of stream section	8
LTER Imnavait FS Data Logger	68.6111984	-149.3099976	Data logger location	8
LTER Imnavait UB Data Logger	68.611702	-149.3009949	Data logger location	8
LTER Imnavait LB Data Logger	68.6113968	-149.3070068	Data logger location	8
Toolik Inlet Data Logger	68.6259995	-149.5930023	Data logger location	7
Toolik Lake Climate station	68.6306	-149.6089935	Raft in lake	7
Toolik Lake Eddy flux station	68.630378	-149.605992	Raft in lake	7
Wet Sedge Fen Eddy Flux Station	68.624319	-149.60225	Flux Station location	7

Streams seasonal and Long-Term Installations	Latitude	Longitude	Map ID	Map #
Long-term Oksrukuyik Creek reference monitoring (Potential NEON/STREON site)				
Oksrukuyik 0.1k	68.6724	-149.1273	HOBO Temperature Probe (Year Round)	11, 14
Oksrukuyik stage recorder	68.6860	-149.0990	HOBO Pressure Transducer (Year Round)	11, 14
Long-term Kuparuk Fertilization Experiment				
Kuparuk 3.0k	68.6537	-149.4209	HOBO Temperature Probe	11, 12
Kuparuk 2.5k	68.6523	-149.4152	YSI Sonde (Summer)	11, 12
Kuparuk 2.0k	68.6495	-149.4162	Game Camera (Year Round)	11, 12
Kuparuk 1.39k	68.6462	-149.4091	YSI Sonde (Summer), Turbidity Sensor (Summer)	11, 12
Kuparuk 1.4k	68.6463	-149.4100	Phosphoric Acid Dripper (Summer)	11, 12
Kuparuk 1.2k / Kuparuk 4.5 Fish Antenna	68.6463	-149.4097	Fish Antenna (Year Round)	11, 12
Kuparuk 0.74k	68.6432	-149.4033	HOBO Pressure Transducer (Year Round)	11, 12
Kuparuk 0.5k	68.6415	-149.4019	YSI Sonde (Summer)	11, 12
Kuparuk 0.0k / Kuparuk 4 Fish Antenna	68.6391	-149.3943	Phosphoric Acid Dripper (Summer), Game Camera, Fish Antenna (Year Round)	11, 12
Kuparuk -0.1k	68.6381	-149.3930	YSI Sonde (Summer)	11, 12
Upper Kup WS1-WS2	68.5500	-149.3096	Game Camera (Year Round)	11, 13
Long-term thermokarst monitoring				
Toolik River Met Station	68.6914	-149.2070	Meteorological station and associated soil monitoring (Year Round)	11, 14
NE-14 Met Station	68.6779	-149.6210	Meteorological station and associated soil monitoring (Year Round)	11
I Minus 2 Met Station	68.5427	-149.5240	Meteorological station and associated soil monitoring (Year Round)	11, 15
Long-term fish monitoring				
Kuparuk 1- GCL inlet	68.5338	-149.2070	Fish Antenna (Year Round)	11, 13

GCL Lake - multiplex antenna	68.5369	-149.2428	Fish Antenna (Year Round), Fish weir (Seasonal)	11, 13
Kuparuk 2- GCL outlet	68.5389	-149.2616	Fish Antenna (Year Round)	11, 13
Kuparuk 3	68.5577	-149.3311	Fish Antenna, Game Camera (Year Round)	11, 13
Kuparuk Spring (KUS) pool	68.5721	-149.3470	Fish Antenna, Game Camera (Year Round)	11, 13
Kup 4- 0.0k	68.6393	-149.3948	Fish Antenna (Year Round)	11, 13
Kuparuk 5	68.6546	-149.4237	Fish Antenna (Year Round)	11, 13
Toolik Outlet	68.6902	-149.6058	Fish Antenna (Year Round)	11, 13
Oksrukuyik(-1) - Zev Lake outlet	68.6194	-149.1876	Fish Antenna (Year Round)	11, 14
Oksrukuyik 0 - Wolverine Lake confluence	68.6367	-149.2164	Fish Antenna (Year Round)	11, 14
Oksrukuyik 1 - Wolf creek	68.6724	-149.1255	Fish Antenna (Year Round)	11, 14
I-minus 1 Lake outlet	68.5565	149.5763	Fish Antenna (Year Round), Fish weir (Seasonal)	11, 15
Long-term stream-bed thermal monitoring				
Inlet Series - I8 inlet	68.6050	-149.5864	Datalogger with buried thermistors (Year Round)	11, 15
Inlet Series - I8 outlet	68.6122	-149.5906	Datalogger with buried thermistors (Year Round)	11, 15
Inlet Series - Peat Inlet (I-Swamp)	68.6072	-149.5932	Datalogger with buried thermistors (Year Round)	11, 15

Occasional Use Stream Sampling Sites	Latitude	Longitude	Map ID	Map #
Oksrukuyik Long-Term Reference Stream Monitoring				
Oksrukuyik -0.1k	68.6715	-149.1281	Sampling point	11, 14
Oksrukuyik -0.3k	68.6714	-149.1312	Sampling point	11, 14
Oksrukuyik -0.7k	68.6710	-149.1379	Sampling point	11, 14
Oksrukuyik 0.8k	68.6772	-149.1218	Sampling point	11, 14
Oksrukuyik 1.37k	68.6798	-149.1142	Sampling point	11, 14
Kuparuk River Long-Term Experimental Fertilization Experiment				
Kuparuk 5.5k	68.6670	-149.4386	Sampling point	11, 12
Kuparuk 4.0k	68.6588	-149.4245	Sampling point	11, 12
Kuparuk 2.4k	68.6517	-149.4165	Sampling point	11, 12
Kuparuk 1.8k	68.6478	-149.4157	Sampling point	11, 12
Kuparuk 1.0k	68.6447	-149.4052	Sampling point	11, 12
Kuparuk 0.85k	68.6436	-149.4025	Sampling point	11, 12
Kuparuk 0.56k	68.6421	-149.4035	Sampling point	11, 12
Kuparuk 0.3k	68.6407	-149.4006	Sampling point	11, 12
Kuparuk -0.177k	68.6381	-149.3918	Sampling point	11, 12
Kuparuk -0.377k	68.6384	-149.3892	Sampling point	11, 12
Kuparuk -0.47k	68.6374	-149.3867	Sampling point	11, 12
Kuparuk -0.7k	68.6367	-149.3832	Sampling point	11, 12
Hershey Creek	68.6447	-149.4120	Sampling point	11, 12
Occasional Stream Sampling Locations				
Imnavait A	68.6166	-149.3180	Sampling point	11
Imnavait AA	68.6177	-149.3183	Sampling point	11
Imnavait B	68.6206	-149.3186	Sampling point	11
Imnavait C	68.6229	-149.3210	Sampling point	11
Imnavait D	68.6253	-149.3246	Sampling point	11
Imnavait E	68.6420	-149.3430	Sampling point	11
Upper Kup WS1	68.5494	-149.3062	Sampling point	11, 13
Upper Kup WS2	68.5492	-149.3084	Sampling point	11, 13
Itkillik Trib East	68.5901	-149.7242	Sampling point	11
Itkillik Trib West	68.5902	-149.7262	Sampling point	11
Thermokarst-Impacted Stream Sampling Locations				
Toolik River REF	68.6957	-149.2048	Sampling point	11, 14
Toolik River IMP	68.6955	-149.2078	Sampling point	11, 14
Toolik River TK Low	68.6938	-149.2041	Sampling point	11, 14
Toolik River TK Mid	68.6922	-149.2068	Sampling point	11, 14

Toolik River TK Above	68.6907	-149.2084	Sampling point	11, 14
I Minus 2 REF	68.5481	-149.5213	Sampling point	11, 15
I Minus 2 IMP	68.5482	-149.5220	Sampling point	11, 15
I Minus 2 TK Low	68.5479	-149.5216	Sampling point	11, 15
I Minus 2 TK High	68.5441	-149.5222	Sampling point	11, 15
I Minus 2 TK High Side	68.5444	-149.5215	Sampling point	11, 15
Toolik River Above Road	68.6926	-149.1857	Sampling point	11, 14
Toolik River TK-4 "Gurgler"	68.6922	-149.1955	Sampling point	11, 14

Lake Name	Latitude	Longitude	Map ID	Map #
Campsite Lake	68.59734133	-149.1792861	Lake Centroid	9
E1	68.6261956	-149.5525451	Lake Centroid	9, 10
E2	68.62289495	-149.5404817	Lake Centroid	9, 10
E3	68.62391083	-149.528384	Lake Centroid	9, 10
E4	68.62776981	-149.4949366	Lake Centroid	9, 10
E5	68.64223639	-149.4553129	Lake Centroid	9
E6	68.64342706	-149.4377658	Lake Centroid	9
Fog1	68.68356703	-149.0789002	Lake Centroid	9
Fog2	68.67948025	-149.0897977	Lake Centroid	9
Fog3	68.67286025	-149.0850284	Lake Centroid	9
Fog4	68.6797388	-149.0724402	Lake Centroid	9
Fog5	68.67854136	-149.0618096	Lake Centroid	9
Green Cabin Lake	68.53698153	-149.2346134	Lake Centroid	9
I Minus 1	68.55632969	-149.5634806	Lake Centroid	9, 10
I Minus 2	68.5536117	-149.5311622	Lake Centroid	9, 10
I1	68.56871308	-149.5852724	Lake Centroid	9, 10
I2	68.57131956	-149.5630787	Lake Centroid	9, 10
I3	68.57553663	-149.5808408	Lake Centroid	9, 10
I4	68.57956715	-149.5812557	Lake Centroid	9, 10
I5	68.58738744	-149.586822	Lake Centroid	9, 10
I6	68.5965924	-149.5898393	Lake Centroid	9, 10
I7	68.6008748	-149.5937779	Lake Centroid	9, 10
I8	68.61015752	-149.5794079	Lake Centroid	9, 10
I9	68.61896451	-149.5926932	Lake Centroid	9, 10
I swamp	68.610942	-149.600635	Lake Centroid	9, 10
N1	68.63989394	-149.6041605	Lake Centroid	9
N2	68.64094723	-149.6222805	Lake Centroid	9
N3	68.64238534	-149.6279638	Lake Centroid	9
N4	68.6451207	-149.6374738	Lake Centroid	9
N5	68.6454282	-149.6260492	Lake Centroid	9
N6	68.66995995	-149.6386386	Lake Centroid	9
N7	68.67299589	-149.652117	Lake Centroid	9
NE1	68.64378317	-149.5866898	Lake Centroid	9
NE10	68.65258828	-149.6048351	Lake Centroid	9
NE11	68.64740772	-149.6065605	Lake Centroid	9
NE12	68.6623557	-149.6195447	Lake Centroid	9
NE14	68.67501937	-149.6228162	Lake Centroid	9
NE15	68.65587404	-149.5827542	Lake Centroid	9
NE16	68.66104528	-149.5838597	Lake Centroid	9
NE2	68.64632501	-149.5799181	Lake Centroid	9
NE3	68.65019252	-149.5797552	Lake Centroid	9
NE7	68.65357228	-149.5781065	Lake Centroid	9
NE8	68.65255128	-149.5839553	Lake Centroid	9
NE9	68.65353613	-149.5934167	Lake Centroid	9
NE9B	68.65264548	-149.5966684	Lake Centroid	9
S1	68.62453597	-149.5993617	Lake Centroid	9, 10

S2	68.62716908	-149.6085481	Lake Centroid	9
S3	68.62881862	-149.6220165	Lake Centroid	9
S4	68.63094993	-149.6271258	Lake Centroid	9
S5	68.63143192	-149.6338867	Lake Centroid	9
S6	68.62937978	-149.6388174	Lake Centroid	9
S7	68.63006274	-149.6416358	Lake Centroid	9, 10
S11	68.63014805	-149.6477731	Lake Centroid	9
S12	68.6296278	-149.6530747	Lake Centroid	9, 10
S13	68.63148657	-149.656296	Lake Centroid	9
S14	68.63603501	-149.6484494	Lake Centroid	9
Toolik Lake	68.63257175	-149.6040778	Lake Centroid	7, 9
Toolik Inlet Data Logger	68.6259995	-149.5930023	Data logger location	7
Toolik Lake Climate station	68.6306	-149.6089935	Raft in lake	7
Toolik Lake Eddy flux station	68.630378	-149.605992	Raft in lake	7
Galbraith Lake	68.45932	-149.424398	Lake Centroid	9
Itkillik Lake	68.40256062	-149.9188446	Lake Centroid	9
Wolverine Lake (LTER345)	68.623297	-149.157408	Lake Centroid	9
Wounded Caribou Lake (LTER346)	68.625734	-149.140009	Lake Centroid	9
LTER347	68.632155	-149.164483	Lake Centroid	9
LTER348	68.636431	-149.143902	Lake Centroid	9