

Anadromous Water Catalog Volume Arctic II  
 USGS Quad Mt. Michelson D-2, D-3, C-3 (1:63,360)  
 Name of Waterway Katak Turuk River Drainage (North Slope)  
(includes Nularvik Creek & Lunnameg tributaries)  
 Anadromous Water Catalog Number of Waterway  
330-00-10188 & 10188-2023 & 10188-2057

ALASKA DEPT. OF  
 FISH & GAME

SEP 28 1989

REGION II  
 HABITAT DIVISION

Change to \_\_\_\_\_ Atlas  
 \_\_\_\_\_ Catalog  
X Both  
 Addition X  
 Deletion \_\_\_\_\_  
 Correction \_\_\_\_\_

For Office Use

Nomination #	<u>90</u>	<u>6</u>
Regional Supervisor	<u>M. J. Holt</u>	<u>11/2/89</u>
Date		<u>12/21/89</u>
Drafted	<u>FL</u>	<u>12/19/89</u>
Date		

*OIC*

Name addition:  
 USGS name \_\_\_\_\_  
 Local name \_\_\_\_\_

Species	Date(s) Observed	Spawning	Rearing	Migration
Arctic char (juvenile anad)	<u>7/30/89 9/10/89</u>		<u>X</u>	

*Altogether, 72 captured, 19 others observed, & 1 prob. char obs.*

Comments: Provide any clarifying information, including number of fish observed, location of fish survey data, etc.

*No adults captured or observed, none reported in literature. One sighting of juvenile char reported in literature as captured near mouth. All char assumed to be anadromous because: 1) No overwintering of fish in drainage reported, 2) No pools in excess of 4 ft observed, 3) no fish capt. or obs. in some waters, 1st shocking, found 2nd shocking. Attach a copy of a map showing location of mouth and upper points of each species, specific stream reaches identified for spawning or rearing, locations of barriers, such as falls. Attach a copy of the fish survey data, if available. Fish survey data enclosed. 4) only 1 size class captured, 5) all fish immature in appearance, 6) no lakes in drainage.*

Name of Observer (please print) Raymond V. Corning  
 Date: 9/27/89 Signature: Raymond V. Corning

Address: Fisheries Mgmt. Services  
Water Resource Branch  
U.S. Fish & Wildlife Serv.

Signature of Area Biologist: William D. Arvey  
1011 E. Tudor  
Anchorage, AK 99503



Location: Lower Katakturuk River from 4 mi above mouth, upstream  
5 miles, including part of an eastern tributary.

Date: 8/24/89 Crew: Greci & Sander Map: Mt. Michelson D-2  
Section Map Location Effort Shock W. Temp. Conduct.  
(min) Time(s) deg F (umhos)

1	SE1/4 S23 T7N R28E	(mm)	50	2145	46	340
	Species: AC	223				
	AC	170				
	AC	226				
	AC	230				
	AC	Obs 4				
2	NE1/4 S27 T7N R28E		50	1046	48	440
	Species: AC	203				
	AC	179				
	AC	172				
	AC	195				
	AC	205				
	AC	188				
	AC	Obs 2				
3	NW1/4 S34 T7N R28E		50	2212	50	450
	Species: AC	164				
	AC	220				
	AC	208				
4	SE1/4 S33 T7N R28E		45	1625	52	390
	Species: AC	200				
	AC	217				
5	SE1/4 S4 T6N R28E		50	1327	52	395
	Species: AC	144				
	AC	200				
	AC	195				
	AC	175				
	AC	219				
	AC	Obs 2				
	Mean:		49	1671	49.6	403
	Total:		5	5	5	5

Habitat Notes:

Section 1 - Fish found in channel 15 ft to 40 ft wide  
Gravel under 2 inches, some cobble to 16 inches.  
Moderate siltation, mostly slow water near heads of  
riffles where fish were taken. Vertical banks,  
1 1/2 ft deep runs.  
Section 2 - Side channels shocked - edge of swift  
riffles, 1 1/2 ft deep, 30 ft wide.

Section 3 - found AC in run just below a riffle - stream width 10 ft, depth 1 ft, substrate mix of small gravel & rubble 1 ft dia., discolored water.  
 Section 4 - same as above but river less divided with few side channels.  
 Section 5 - slow backwater eddies, small side channels under 1 ft in depth w/riffles running 1 to 2 ft in depth.  
 20 AC captured and 8 observed; 2 NS captured.

Location: Lower Katakturuk River from 6 mi above mouth, upstream 5 miles.

Date: 7/30/89 Crew: Elliott & Sander Map: Mt. Michelson D-2

Section	Map Location	Effort (min)	Shock Time(s)	W. Temp. (deg F)	Conduct. (umhos)
1	SE1/4 S23 T7N R28E	45	1397	58	230
	Species: AC		(mm)		
			141		
			145		
			175		
			146		
			134		
			150		
2	NE1/4 S27 T7N R28E	45	938	54	230
	Species: AC				
			200		
			201		
			207		
			172		
			148		
			181		
			148		
			185		
			180		
			193		
3	NW1/4 S34 T7N R28E	50	1295	58	265
	Species: AC				
			184		
			202		
			189		
			206		
			202		
			195		
4	SE1/4 S33 T7N R28E	45	928	56	230
	Species: AC				
			179		
			202		
5	SE1/4 S4 T6N R28E	45	993	58	240
	Species: AC				
			147		
			180		
			3		

AC	188
AC	198
AC	184
AC	208

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Mean:	46	1110.2	56.8	239
Total:	5	5	5	5

Habitat Notes: Section 1 - All fish caught on West side in side channels & deeper pools.  
 Section 2 - All fish caught on West side in side channels & deeper pools.  
 Section 3 - side channels broader & muddier.  
 Section 4 - Mostly main channel.  
 Section 5 - All fish caught on West side in side channels.  
 30 AC captured altogether.

Location: East side tributary of the Katakturuk River (10 miles above the river mouth), beginning 4 mi above tributary mouth, upstream 4 miles.

Date: 8/11/89 Crew: Greci & Sander Map: Mt. Michelson D-2 & D-3

Section	Map Location	Effort (min)	Shock Time(s)	W. Temp. deg F	Conduct. (umhos)
1	SE1/4 S30 T6N R28E Species: AC AC	(mm) 200 200	42	1400	55 220
2	NW1/4 S31 T6N R28E Species: AC AC AC	203 208 Obs 5	50	1294	58 225
3	NE1/4 S1 T6N R27E Species: None captured or observed.		45	1427	59 250
4	NE1/4 S12 T6N R27E Species: AC AC AC	209 214 Obs 1	50	816	59 240

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Mean:	46.8	1234.3	57.8	234
Total:	4	4	4	4

Habitat Notes: Section 1 - 60% straight channel, 30% riffle, and 10% backwater - water muddy.  
 Section 2 - 50% Deep riffle, 20% channel, and

30% pools - water muddy.  
 Section 3 - water beginning to clear.  
 6 AC captured and 6 AC observed altogether.

Location: East side tributary of the Katakturuk River (10 miles above the river mouth) beginning 5 miles above tributary mouth, upstream 5 miles.

Date: 8/23/89 Crew: Greci & Sander Map: Mt. Michelson D-2 & D-3

Section	Map Location	Effort (min)	Shock Time(s)	W. Temp. deg F	Conduct. (umhos)
1	NW1/4 S31 T6N R28E Species: AC	50	1294	58	225
		195			
2	NE1/4 S1 T6N R27E Species: None captured or observed.	45	1427	59	250
3	NE1/4 S12 T6N R27E Species: None captured or observed.	50	816	59	240
4	N1/2 S13 T5N R27E Species: None captured or observed.	45	1164	48	330
5	SE1/4 S13 T5N R27E Species: None captured or observed.	35	828	52	340
	Mean:	46.8	1234.3	57.8	234
	Total:	4	4	4	4

Habitat Notes: Section 1 - several 3 to 4 ft deep pools, backwaters. Side waters turbid, one main channel with braids.  
 Section 2 - logn stretch of single channel 18 inches deep, few pools or braids.  
 Section 3 - deeper main channel (2 ft), few braids or riffles.  
 Section 4 - 30% pools, 10% backwater, some deep channels.  
 Section 5 - predominately a single, fast moving channel.  
 One Arctic char captured.

Location: East side tributary of the Katakaturuk River (10 miles above river mouth), from tributary mouth upstream 5 miles.

Date: 7/31/89 Crew: Greci & Sander Map: Mt. Michelson D-2 & D-3

Section	Map Location	Effort (min)	Shock Time(s)	W. Temp. deg F	Conduct. (umhos)	
1	SW1/4 S9 T6N R28E Species: Unknown	(mm) Obs 1	40	1622	50	220
2	NE1/4 S17 T6N R28E Species: AC	155 AC	60	1259	54	225
3	NW1/4 S16 T6N R28E Species: None captured or observed.		45	707	57	200
4	NE1/4 S20 T6N R28E Species: AC	185	60	807	57	190
5	NE1/4 S30 T6N R28E Species: AC	Obs 1	40	936	57	180
Mean:			49	1066.2	55	203
Total:			5	5	5	5

Habitat Notes: Section 1 - Not much backwater.  
 Section 2 - Good pools.  
 Section 3 - Shallow, small gravel substrate, riffle areas, deep pools 3-7 ft deep for 60% of the section - deep channel 20%.  
 Section 4 - 3 to 5 ft pools (50%), shallow riffle (10%), slow flowing deep (3 ft) channel.  
 Section 5 - 90% riffle, 10% pool.  
 3 AC captured, 1 AC observed, 1 Unknown observed but probably an AC.

Location: Lower Katakaturuk River from 11 mi above mouth, upstream 5 miles.

Date: 7/31/89 Crew: Herger & Morse Map: Mt. Michelson D-3

Section	Map Location	Effort (min)	Shock Time(s)	W. Temp. deg F	Conduct. (umhos)	
1	SW1/4 S17 T6N R28E Species: None captured or observed.	(mm)	60	1639	49	175
2	NW1/4 S19 T6N R28E Species: AC	163	60	1602		
			6			

AC 203

3 SW1/4 S24 T6N R27E	55	999	53	175
Species: None captured or observed.				
4 NE1/4 S26 T6N R27E	55	899		
Species: None captured or observed.				
5 NW1/4 S35 T6N R27E	40	506	52	300
Species: None observed.				

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Mean:	54	1129	51.3	216.6
Total:	5	5	3	3

Habitat Notes: Section 1 - Very turbid water, wide braided channel, mostly riffle, several good backwaters - mud/silt substrate - cobble in main channel.  
 Section 2 - One fish caught in backwater and one in main riffle - section mostly riffles.  
 Section 3 - Very turbid, deep silt common.  
 Section 4 - Shallow clear backwaters, water becoming slightly clearer, some undercut banks.  
 Section 5 - Numerous 2.5 ft pools.  
 2 AC captured altogether.

Location: Katakturuk River mainstem (approx. 12 mi. above mouth), upstream 5 miles to mouth of Nularvik Creek.

Date: 8/10/89 Crew: Greci & Sander Map: Mt. Michelson D-3

Section	Map Location	Effort (min)	Shock Time(s)	W. Temp. deg F	Conduct. (umhos)
1	NE1/4 S3 T5N R27E (mm) Species: AC 171	60	1620		
2	SE1/4 S3 T5N R27E Species: AC 188 AC Obs 1	50	1165	59	135
3	SE1/4 S10 T5N R27E Species: None captured or observed.	50	733	63	290
4	NW1/4 S14 T5N R27E Species: None captured or observed.	35	551	61	270
5	NW1/4 S23 T5N R27E Species: None captured or observed.	45	662	59	270
	Mean:	48	946.2	60.5	241
	Total:	5	5	4	4

Habitat Notes: Sections 1 & 2 were muddy but 3, 4 and 5 were clear.  
 Altogether, 2 Arctic char were captured and 1 was observed.

Location: Katakturuk River mainstem (approx. 12 mi. above mouth),  
 upstream 5 miles to mouth of Nularvik Creek.

Date: 8/22/89 Crew: Corning & Herger Map: Mt. Michelson D-3

Section	Map Location	Effort (min)	Shock Time(s)	W. Temp. deg F	Conduct. (umhos)
1	NE1/4 S3 T5N R27E (mm) Species: None captured or observed.	60	1004	45	125
2	SE1/4 S3 T5N R27E Species: AC Obs 1	60	1099		
3	SE1/4 S10 T5N R27E Species: None captured or observed.	49	737	49	175
4	NW1/4 S14 T5N R27E Species: None captured or observed.	45	1266		
5	NW1/4 S23 T5N R27E Species: None captured or observed.	48	457	50	250
Mean:		52.4	894.6	48	183
Total:		5	5	3	3

Habitat Notes: Section 1 - 20% pools less than 2 ft deep, 80% riffles. Only 2 major pools. Few slow deep runs. Channel about 20 yards wide. Mixture of cobbles under 1 ft and gravel under 3 inches. Mud banks inactive on west shoreline.  
 Section 2 - channel about 20 yards wide, 4-5 braids. Some steep shaded banks. More runs than in section 1. 1 ft diam. cobble with 1-3 inch gravel.  
 Section 3 - 2 channels, deep side water but few good pools. Some pools too deep to shock. Gravel with cobble substrate.  
 Section 4 - Fast, straight riffles, few runs, almost no pools. Poorly sorted gravel. Fewer channels (vs. Sect. 2 & 3).  
 Section 5 - Mostly riffles and runs, few pools. More braiding than in section 4. Substrate poorly sorted except for a few areas.  
 Altogether, 1 Arctic char was observed.

Location: Nularvik Creek (Katakturuk R. trib.) from about 3 miles above mouth, upstream 5 miles.

Date: 8/22/89 Crew: Greci & Sander Map: Mt. Michelson C-3 & D-3

Section	Map Location	Effort (min)	Shock Time(s)	W. Temp. deg F	Conduct. (umhos)	
1	SW1/4 S36 T5N R27E (mm) Species: None captured or observed.	45	1592	46	350	
2	SW1/4 S31 T5N R28E Species: AC 217 AC 225 AC 198	60	786	46	390	
3	NE1/4 S3 T4N R28E Species: None captured or observed.	50	1272	45		
4	SW1/4 S2 T4N R28E Species: None captured or observed.	45	1083	45	450	
5	SW1/4 S11 T4N R28E Species: None captured or observed.	40	997	45		
		Mean:	48	1146	45.4	397
		Total:	5	5	5	3

Habitat Notes: Section 1 - braided, shallow (1 ft or less), few deep pools or eddies.  
 Section 2 - slow, turbid, willows by bank, shallow (1 ft or less), deep pools.  
 Section 3 - braided, small pools, still good habitat.  
 Section 5 - very few pools.  
 Altogether, 3 Arctic char were captured.

Arctic Char Sein Haul Field Data  
 For the Katakaturuk River Drainage  
 1989 Summer Field Season

Fisheries Management Services  
 Water Resources Branch  
 U.S. Fish and Wildlife Service  
 1011 East Tudor  
 Anchorage, Alaska

Location: Mainstem Katakaturuk River, from 8 miles above the mouth  
 upstream 4 miles.

Date: 9/10/89 Crew: Greci & Sander Map: Mt. Michelson D-3

Section	Map Location	Effort (min)
1	SW1/4 S9 T6N R28E (mm)	80
	Species: None captured or observed.	
2	NW1/4 S17 T6N R28E	60
	Species: None captured or observed.	
3	SW1/4 S17 T6N R28E	50
	Species: None captured or observed.	
4	SW1/4 S19 T6N R28E	60
	Species: AC 213	
	Mean:	<hr/> 38.8
	Total:	4

Habitat Notes: No comments.

# MT. MICHELSON

Water Resources Branch  
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9/27/89



