

**DISTRIBUTION OF RADIO TAGGED COHO SALMON
IN THE STIKINE RIVER DRAINAGE, 2006**

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November, 2008

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Abstract

A total of 345 radio tags was applied to coho salmon (*Oncorhynchus kisutch*) at Rock Island located approximately 17 kilometres below the Canada/US border. Of these tags 32 were not considered to be active (4 tags were considered to be regurgitated, 2 were recorded well below the tag site and considered to be non-spawners and 26 were never recorded after application.). The majority of the coho (n=123, 39.0%) were distributed throughout the Iskut River drainage, 31 (9.8%) of those were returning to the Craig River, 71(22.5%) were above border main-stem spawners, 40 (12.7%) were recorded at the Chutine River, 37 (11.7%) were recorded below the Canada/US border, 30 (9.5%) were recorded at the Katete River, 8 (2.5%) were recorded at the Porcupine River and 6 (1.9%) were found in the Scud River. The Stikine main-stem and Iskut River were the first stocks to pass by Rock Island in week 32 Katete River, U.S. stocks and Chutine River stocks were the next to arrive in week 33 followed by the Scud River in week 34 and the Porcupine River in week 36.

One per cent of the coho recovered in the Stikine River were marked with a cwt.

Both the Chutine and Katete rivers were identified as having potential to serve as system wide indicator streams; however, assessment at these site would require the deployment of a Didson sonar.

Introduction

The Stikine River drainage covers about 52,000 km² (Bigelow et al. 1995), much of which is inaccessible to anadromous fish because of natural barriers. Principal tributaries include the Tahltan, Chutine, Scud, Porcupine, Tanzilla, Iskut, and Tuya rivers (Figure 1). The lower river and most tributaries are glacially occluded (e.g., Chutine, Scud, Porcupine, and Iskut rivers). Only 2% of the drainage is in Alaska (Beak Consultants Limited 1981). The upper drainage of the Stikine is accessible via the Telegraph Creek Road and the Stewart Cassiar Highway.

Stikine River salmon are harvested by U.S. commercial gillnet fisheries in Alaskan Districts 106 and 108, by Canadian commercial gillnet fisheries located in the lower and upper Stikine River, and by a Canadian aboriginal fishery in the upper portion of the river (Figure 1). In addition, Canadian terminal area fisheries are operated in the lower Tuya River and/or at Tahltan Lake when escapements are estimated to include excess salmon to spawning requirements (ESSR). A small sport fishery also exists in the Canadian sections of the Stikine River drainage. In 1995, a United States personal use fishery was established in the lower Stikine River: no catches were reported in this fishery in 1995 through 2000; approximately 30 sockeye salmon were harvested in 2001; and the personal use fishery on the Stikine River was not open in 2002 and 2003. A US Stikine River subsistence fishery was opened in 2004 to harvest sockeye. In 2005, subsistence fishers were permitted to harvest Chinook (*O. tshawytscha*) and coho (*O. kisutch*) salmon. Additional catches of unknown quantity are taken in U.S. troll and seine fisheries and in sport fisheries near Wrangell and Petersburg. In 1996, the spring experimental troll area in the District 110 portion of Frederick Sound was expanded to target hatchery Chinook salmon. The majority of the TAC was harvested in gillnet fisheries; however, a component of the catch was taken in troll and sport fisheries. In 2005, Canada and the U.S. prosecuted new directed Chinook commercial fisheries which targeted Stikine River stocks. This new fishery was agreed to under the auspices of the PSC February 2005 negotiation session (TTC 2005).

Although not through lack of trying, post season estimates of Stikine River coho salmon escapement and run size are not robust and inseason abundance data is lacking/unproven. Total inriver escapement before 2000 (1986-1999) was approximated based on the performance of a coho test fishery augmented with annual aerial surveys of eight index sites. However, there has not been any confirmation that the test fishery is a reliable indicator of coho abundance. From 2000 to 2003, a joint Canada/U.S. coho mark-recapture study was conducted as a pilot experiment; however, because the numbers of tags applied and recovered were both low, the estimates of run size were relatively weak and therefore did not provide a reliable measure of abundance. The escapement goal for coho on the Stikine River is 30,000 to 50,000 fish.

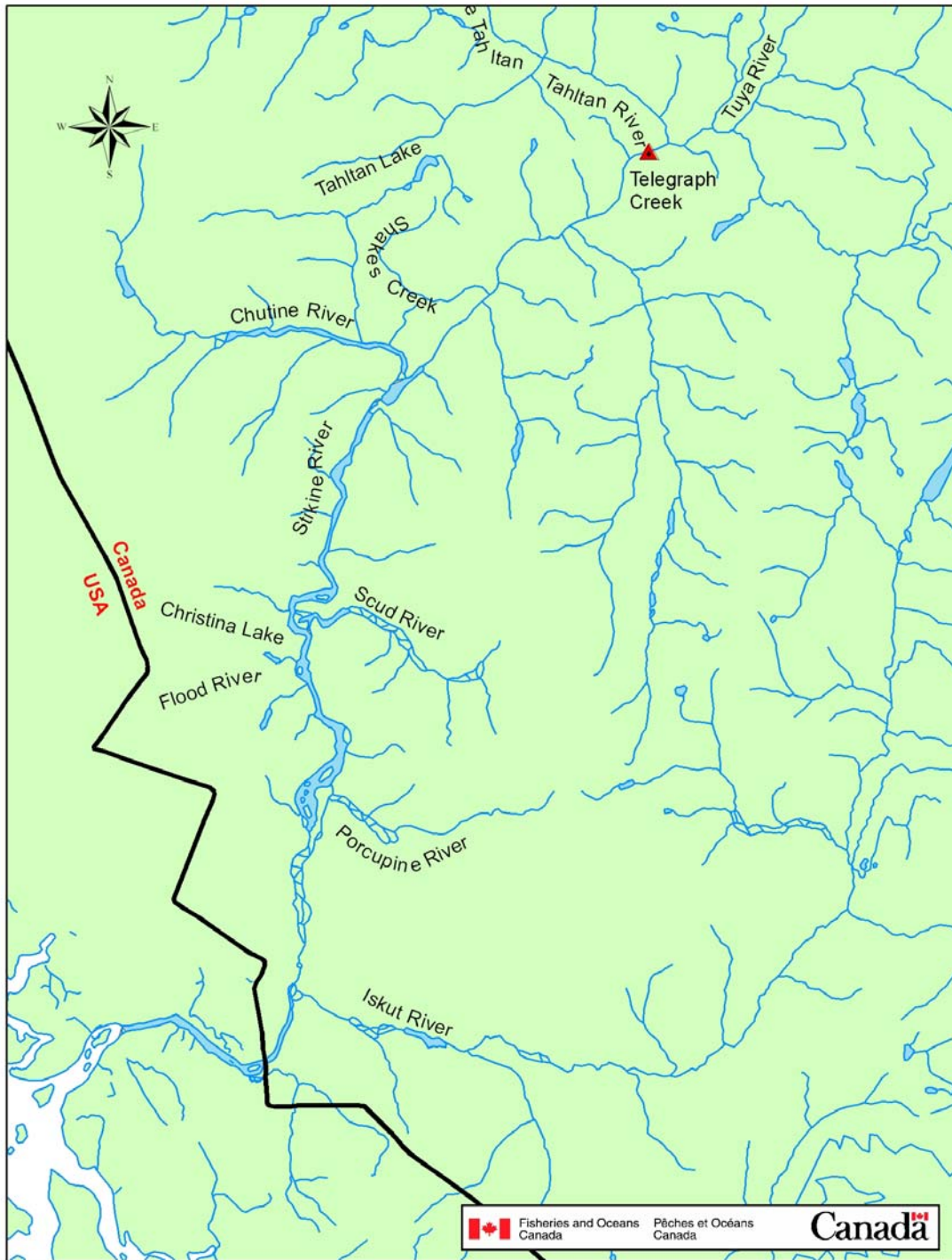


Figure 1. Stikine River drainage area.

Objectives

The objectives of the 2006 Stikine River coho telemetry program were:

1. To estimate the stock specific run timing and distribution of coho salmon in the Stikine River for 2006
2. To locate two reliable key stocks to serve as a proxy for total in river abundance with the long term objective of precise key stock enumeration, proportional contribution, and catch accounting (total in river run size will be generated based on the expansion of the absolute numbers of key coho stocks);
3. To collect heads from cwt tagged fish and to collect base line biological data (age, gender and size).

Methods

Radio Tag Application

Radio tags (Model MCFT 3A) from Lotek Wireless Inc. will be applied to coho salmon caught in a set net at “Rock Island” (~ 25km upstream from the mouth of the Stikine River). The capture gear consists of a set gillnet measuring 36m (120’) by 5.5m (18’) and a mesh size of 13cm (5”). One 2 person crew will fish for approximately 360 minutes of soak time per day.

Radio Tag Tracking

Radio tags will be tracked using 8 ground towers and 2 aerial surveys. The towers are equipped with a Lotek SRX-400 radio receiver. The ground receivers have two antennas for each receiver, one pointing upstream and one downstream. The receivers are set to scan the frequencies 149.320 to 149.740 and will scan each frequency ranges for 3.0 seconds, logging any signals that are decoded. These data logs will be downloaded throughout the season whenever a survey flight is done. Receivers used during the flights are the same model as the radio towers however they will not log the signal. Instead a waypoint will be taken of the location with a GPS and linked to the frequency and code for analysis at a later date.

Locating Key Stocks

While conducting telemetry flights areas that could be suitable for a means of enumeration will be looked for. Conditions such as stream width, stream flow, accessibility and logistics will be considered

CWT Recovery

Any CWT (coded wire tag) fish observed while applying tags will be harvested and the heads will be recorded and sent to Juneau for analysis.

Analysis

Waypoints from the GPS will be compiled in Ozi explorer then converted into a format that can be used in Microsoft Excel. Final destination will be determined by assembling all of the tower and flight data in Microsoft Excel and using the furthest distance travelled by the fish. The final destination waypoints will then be assigned an area according to their geographical location.

Results

Composition and Distribution

A total of 345 radio tags were applied to coho at Rock Island located approximately 17 kilometres below the Canada/US border. Of these tags 32 were not considered (4 tags were considered to be regurgitated, 2 were recorded well below the tag site and considered to be non-spawners and 26 were never recorded after application.) While the majority of the fish (n=123, 39.0%) were distributed throughout the Iskut drainage, 31 (9.8%) of those were returning to the Craig River. 71(22.5%) were above border mainstem spawners, 40 (12.7%) were recorded at the Chutine River, 37 (11.7%) were recorded below the Canada/US border, 30 (9.5%) were recorded at the Katete River, 8 (2.5%) were recorded at The Porcupine River and 6 (1.9%) were found in the Scud River (Figure 2). A river specific composition of tags is shown in Figure 3. Tag distribution is demonstrated in Figure 4.

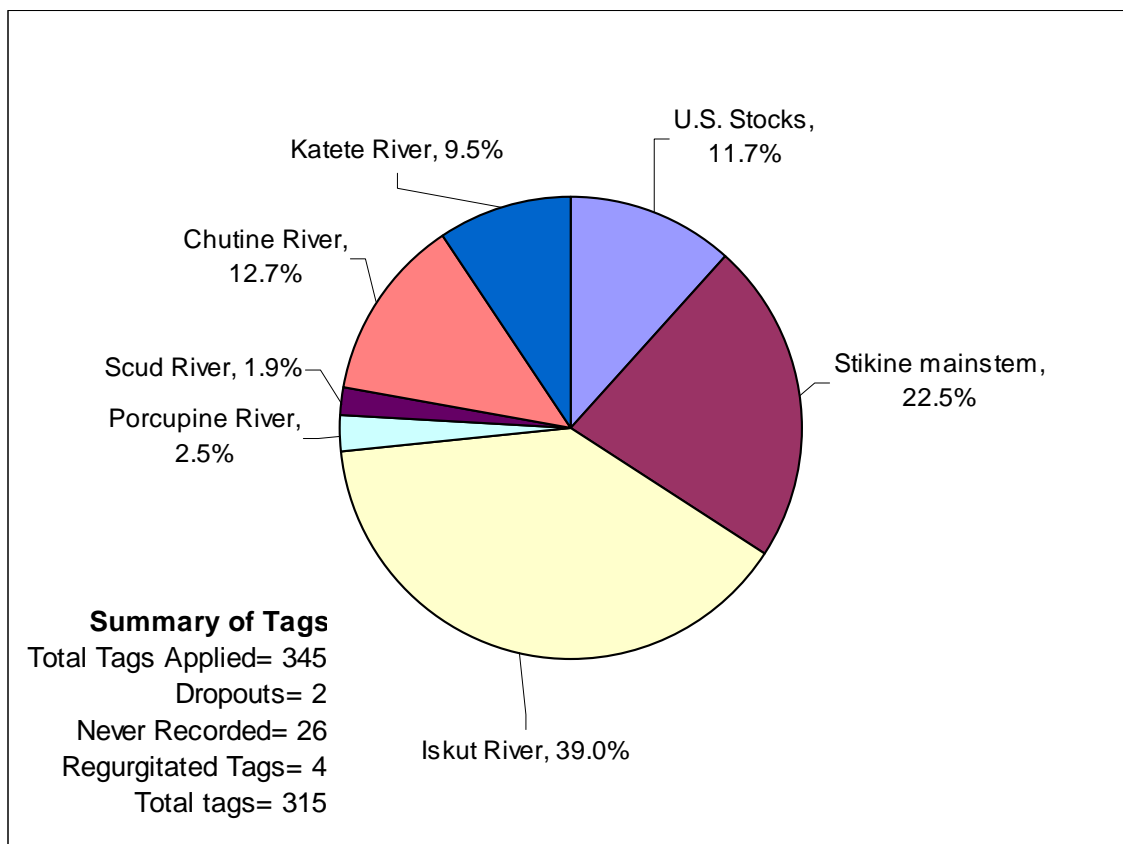


Figure 2. Stock composition of radio tagged coho in Stikine River drainage, 2006.

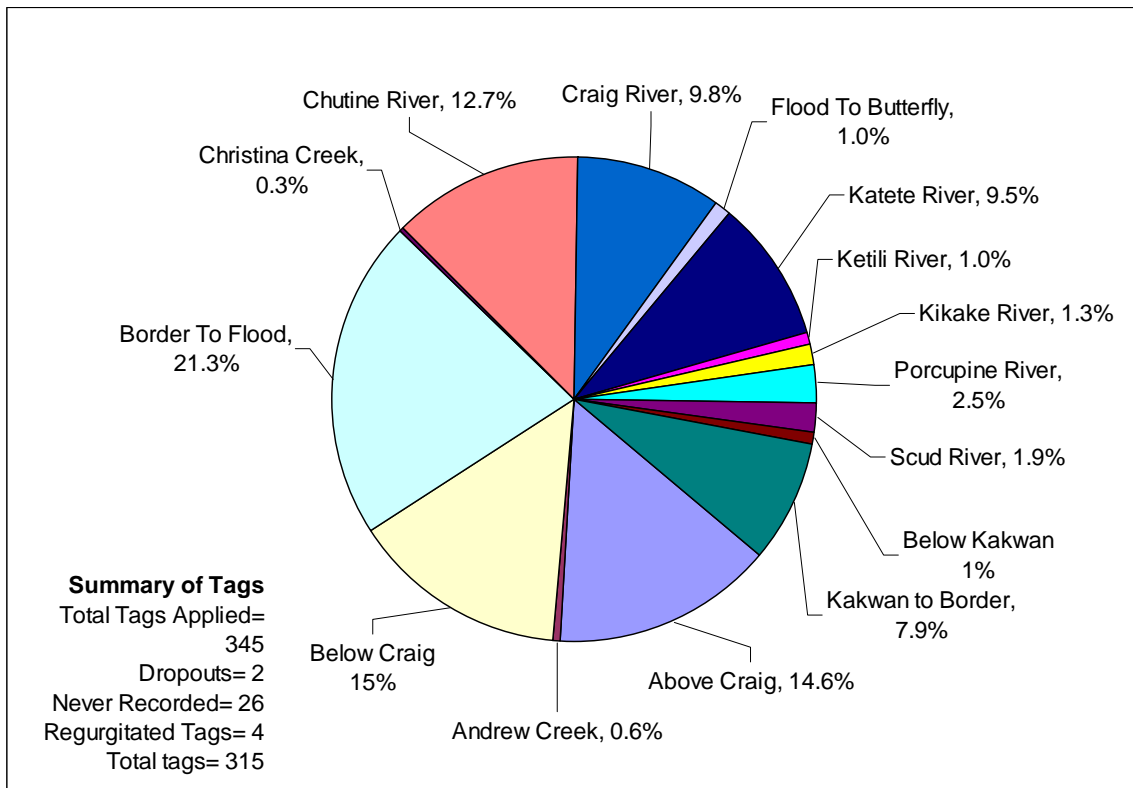


Figure 3. River specific stock composition of radio tagged coho in Stikine River drainage, 2006.

Migration Rates

Migration rates for various stocks were determined using the date radio tags were applied at Rock Island and when they passed by the various towers. Migratory rates were determined for the Boundary House tower, Craig River, Iskut River (Snip), Iskut water station, Chutine River Flood River and Butterfly creek towers Migration rates were also determined from the Boundary House tower in case of any delays from tag application (Table 1).

Table 1. Migration rates for Stikine River coho stocks from Rock Island and Boundary House tower, 2006.

	Site 1 Boundary House	Site 2 Iskut WS	Site 3 Craig R	Site 4 Iskut Snip	site 5 Flood R	Site 6 Butterfly Creek	Site 7 Chutine R	Site 8 Shakes R
Avg km/day from Rock Island	5.6	7.4	2.3	3.1	5.6	7.2	6.8	5.5
Avg km/day from Boundary House		6.7	1.6	3.3	7.1	9.1	8.3	5.5

Run Timing

Run timing of the coho stock groups was calculated by grouping the tags according to their end fate then determining what statistical week they passed by Rock Island. The Stikine mainstem and Iskut River were the first stocks to pass by Rock Island in week 32 (week ending Aug 12) and both peaked in week 36 (week ending Sept 9). Katete River, U.S. and Chutine River stocks

were the next to arrive in week 33 (week ending Aug 19), peaking in week 39 (week ending Sep 30), week 38 (week ending Sept 23) and week 36, respectively. The Scud River group arrived in Week 34 (week ending Aug 26) and peaked in week 35(week ending Sep 2). The final stock to pass by the tagging site was the Porcupine River in week 36, and it peaked in week 39 (Figure 5).

Indicator Stocks

The Katete and Chutine Rivers were identified as possible key stock indicators however they would not work with current weir style operations due to high water volume. Didson Sonar may be feasible but a cost benefit analysis would need to be completed.

CWT Recovery

During the course of tagging, 497 fish were examined for adipose clips and 2 were recovered for a tag rate of less than 1%. These fish were sacrificed and their heads were sent to the Juneau office of Alaska Department of Fish and Game for analyses.

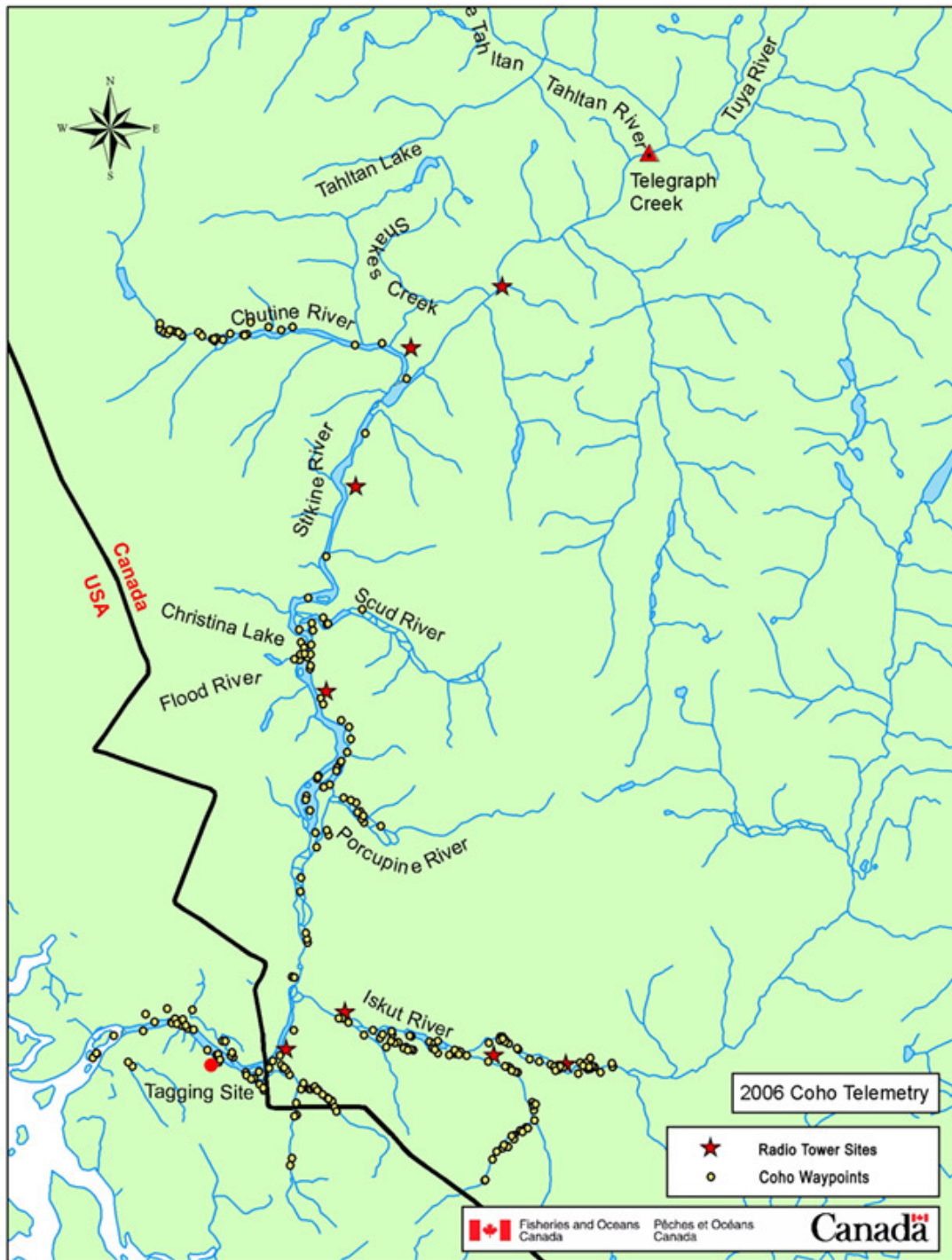


Figure 4. Distribution of radio tagged coho in the Stikine River drainage, 2006.

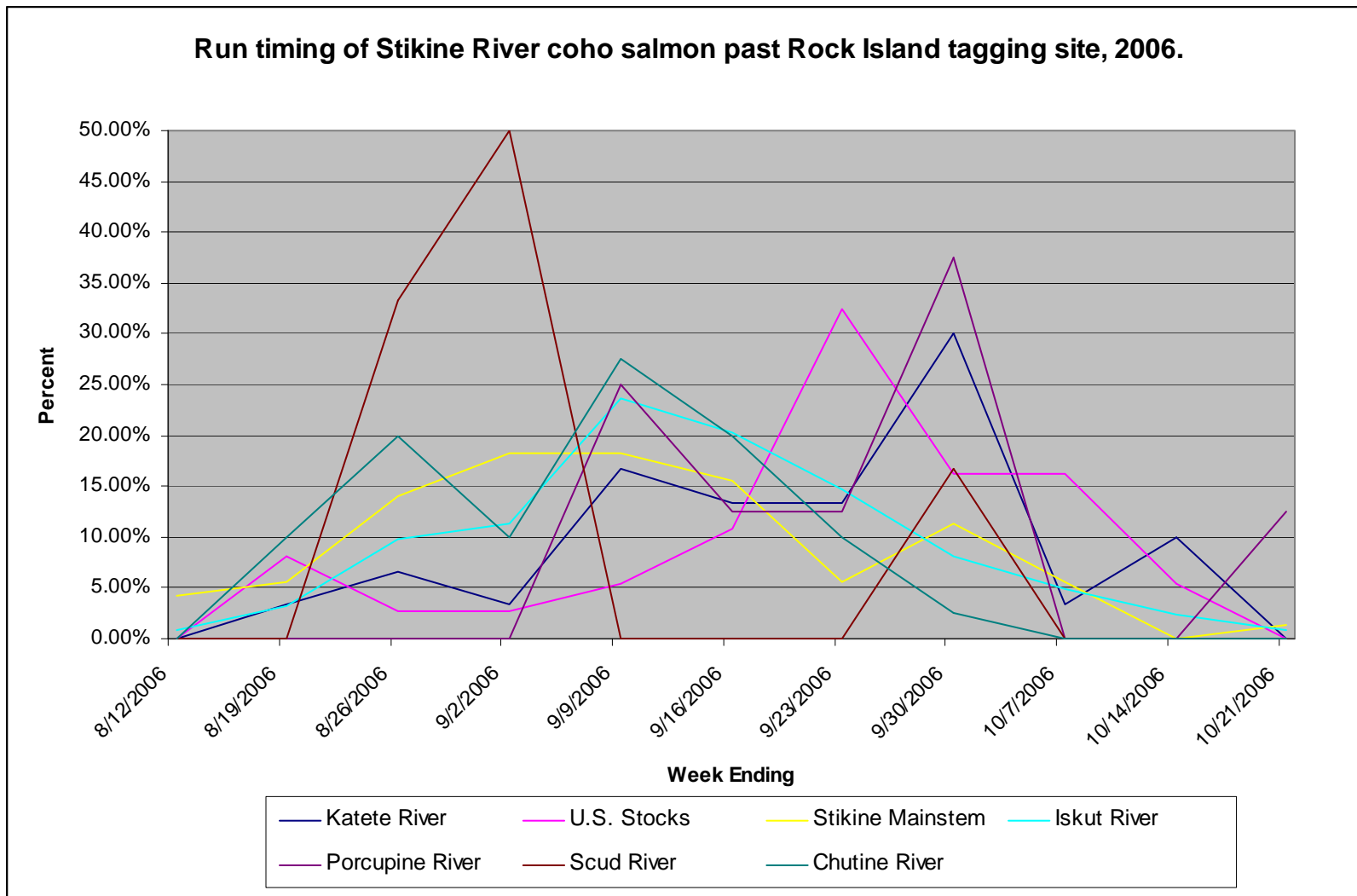


Figure 5. Run timing of Stikine River coho stock groups past Rock Island, 2006.

Acknowledgements

Many individuals and groups contributed to the Stikine River telemetry study. Field crews from Fisheries and Oceans Canada, Alaska department of Fish and Game and Tahltan First nations applied the tags. Cheri Frocklage of the Tahltan Fisheries Program provided logistical and administration support throughout the program. Jim Reed of Pacific Western Helicopters, Dease Lake, provided excellent service for all the aerial survey phases of the projects. Tung Ho, DFO Whitehorse, assisted with the GIS map preparation.

APPENDICES

Appendix 1. Tower radio tag recoveries

Tower logs for Stikine Coho Radio telemetry program 2006			Site #1 (Boundary House)	Site #2 (Iskut W.S.)	Site #3 (Craig Tower)	Site #4 (Iskut Snip)	Site #5 (Flood R.)	Site #6 (Butterfly Cr.)	Site #7 (Chutine R.)	Site #8 (Shakes Cr.)
Code-freq	Date Tag Applied	Stat wk applied	Date Entered	Date Entered	Date Entered	Date Entered	Date Entered	Date Entered	Date Entered	Date Entered
1-1	10-Aug	32	17-Aug	23-Aug	12-Sep					
1-2	10-Aug	32	15-Aug				7-Sep			
1-3	10-Aug	32								
1-4	11-Aug	32	16-Aug				3-Sep			
1-5	12-Aug	32	22-Aug				6-Sep			
1-6	13-Aug	33	20-Aug				6-Sep	9-Sep	16-Sep	
1-7	13-Aug	33								
1-8	14-Aug	33	17-Aug				27-Aug	4-Sep	11-Sep	
1-9	14-Aug	33	28-Aug							
1-10	15-Aug	33	20-Aug				13-Sep	15-Sep	5-Oct	20-Sep
2-1	16-Aug	33	21-Aug	29-Aug		11-Sep				
2-2	17-Aug	33	19-Aug	30-Aug		9-Sep				
2-3	17-Aug	33	21-Aug				8-Sep			
2-4	17-Aug	33								
2-5	17-Aug	33								
2-6	18-Aug	33	10-Sep				17-Sep			
2-7	18-Aug	33	21-Aug	26-Aug						
2-8	18-Aug	33	26-Aug							
2-9	19-Aug	33	21-Aug							
2-10	19-Aug	33	30-Aug	3-Sep						
2-1	16-Aug	33	21-Aug	29-Aug		11-Sep				
2-2	17-Aug	33	19-Aug	30-Aug		9-Sep				
3-3	20-Aug	34	26-Aug				6-Sep			
3-4	21-Aug	34	27-Aug							
3-5	21-Aug	34	29-Aug				9-Sep	12-Sep	16-Sep	
3-6	21-Aug	34	24-Aug							
3-7	21-Aug	34	27-Aug				12-Sep	15-Sep	22-Sep	
3-8	21-Aug	34	27-Aug							
3-9	22-Aug	34	25-Aug				12-Sep	15-Sep	19-Sep	
3-10	23-Aug	34	25-Aug	7-Sep						
4-1	23-Aug	34	29-Aug	3-Sep						
4-2	23-Aug	34								
4-3	23-Aug	34	26-Aug				9-Sep	13-Sep	15-Sep	
4-4	23-Aug	34	25-Aug				13-Sep			
4-5	23-Aug	34	8-Sep				15-Sep	3-Oct	8-Oct	
4-6	24-Aug	34	26-Aug	5-Sep						
4-7	24-Aug	34	26-Aug				8-Sep			
4-8	24-Aug	34	7-Sep				15-Sep	19-Sep	22-Sep	
4-9	24-Aug	34	5-Sep				11-Sep	13-Sep	15-Sep	
4-10	24-Aug	34	15-Sep	18-Sep		5-Oct				
5-1	24-Aug	34	30-Aug	3-Sep						
5-2	24-Aug	34								
5-3	24-Aug	34	3-Sep	7-Sep	15-Sep					
5-4	24-Aug	34	7-Sep	10-Sep		8-Oct				
5-5	24-Aug	34	31-Aug				11-Sep			
5-6	24-Aug	34	3-Sep	7-Sep	11-Sep					
5-7	25-Aug	34	30-Aug	3-Sep		18-Sep				
5-8	25-Aug	34	3-Sep				12-Sep			
5-9	25-Aug	34	7-Sep	10-Sep						
5-10	25-Aug	34	29-Aug				14-Sep			
6-1	25-Aug	34	15-Sep				22-Sep			
6-2	25-Aug	34	3-Sep				1-Oct			
6-3	26-Aug	34	6-Sep	15-Sep		7-Oct				
6-4	26-Aug	34	1-Sep				16-Sep	20-Sep		
6-5	26-Aug	34	2-Sep				12-Sep	14-Sep	20-Sep	
6-6	26-Aug	34								
6-7	26-Aug	34	5-Sep	30-Sep						
6-8	27-Aug	35	30-Aug							
6-9	28-Aug	35	9-Sep	15-Sep						
6-10	28-Aug	35	31-Aug				1-Oct			
7-1	28-Aug	35								
7-2	28-Aug	35								
7-3	28-Aug	35	15-Sep				1-Oct			
7-4	28-Aug	35	7-Sep				14-Sep	18-Sep	22-Sep	
7-5	28-Aug	35	12-Sep				7-Oct			
7-6	29-Aug	35	7-Sep				13-Sep	15-Sep	17-Sep	
7-7	29-Aug	35								
7-8	29-Aug	35	9-Sep				16-Sep			
7-9	29-Aug	35	28-Aug				11-Sep	18-Sep		
7-10	30-Aug	35								
8-1	30-Aug	35	2-Sep	4-Sep	13-Sep					
8-2	30-Aug	35	8-Sep							
8-3	30-Aug	35	31-Aug							
8-4	30-Aug	35	11-Sep				19-Sep	22-Sep		
8-5	30-Aug	35	5-Sep				4-Oct			
8-6	30-Aug	35								
8-7	30-Aug	35	10-Sep	12-Sep	20-Sep					
8-8	30-Aug	35	31-Aug	7-Sep						
8-9	30-Aug	35	8-Sep	10-Sep		18-Sep				
8-10	30-Aug	35	7-Sep				12-Sep			
9-1	31-Aug	35	9-Sep							
9-2	31-Aug	35	4-Sep	7-Sep	19-Sep					
9-3	31-Aug	35	14-Sep	14-Sep	22-Sep					

Tower logs for Stikine Coho Radio telemetry program 2006			Site #1 (Boundary House)	Site #2 (Iskut W.S.)	Site #3 (Craig Tower)	Site #4 (Iskut Snp)	Site #5 (Flood R.)	Site #6 (Butterfly Cr.)	Site #7 (Chutine R.)	Site #8 (Shakes Cr.)
Code-freq	Date Tag Applied	Stat wk applied	Date Entered	Date Entered	Date Entered	Date Entered	Date Entered	Date Entered	Date Entered	Date Entered
9-4	31-Aug	35								
9-5	31-Aug	35	4-Sep	10-Sep	14-Sep					
9-6	31-Aug	35	8-Sep							
9-7	31-Aug	35	8-Sep	9-Sep		18-Sep				
9-8	31-Aug	35	10-Sep				23-Sep			
9-9	31-Aug	35	17-Sep	20-Sep						
9-10	31-Aug	35	6-Sep	9-Sep		16-Sep				
10-1	1-Sep	35	6-Sep	11-Sep						
10-2	1-Sep	35	7-Sep	13-Sep						
10-3	1-Sep	35	11-Sep							
10-4	1-Sep	35	7-Sep				19-Sep			
10-5	1-Sep	35	12-Sep							
10-6	1-Sep	35	7-Sep	10-Sep	30-Sep					
10-7	1-Sep	35	6-Sep	8-Sep	13-Sep					
10-8	3-Sep	36	8-Sep	11-Sep	15-Sep					
10-9	3-Sep	36	5-Sep				12-Sep	14-Sep	30-Sep	
10-10	3-Sep	36	10-Sep	13-Sep						
11-1	3-Sep	36	6-Sep				15-Sep			
11-2	3-Sep	36	9-Sep	26-Sep	30-Sep					
11-3	3-Sep	36								
11-4	3-Sep	36	8-Sep				14-Sep	16-Sep	18-Sep	
11-5	3-Sep	36								
11-6	3-Sep	36	6-Sep				16-Sep			
11-7	3-Sep	36	8-Sep	13-Sep		3-Oct				
11-8	3-Sep	36	6-Sep							
11-9	3-Sep	36	5-Sep	12-Sep		18-Sep				
12-10	5-Sep	36	6-Sep	10-Sep						
12-1	4-Sep	36	8-Sep	11-Sep	2-Oct					
12-2	4-Sep	36	8-Sep	9-Sep						
12-3	4-Sep	36	14-Sep							
12-4	5-Sep	36	15-Sep				1-Oct	4-Oct		
12-5	5-Sep	36	10-Sep	15-Sep						
12-6	5-Sep	36	6-Sep	12-Sep		20-Sep				
12-7	5-Sep	36	6-Sep							
12-8	5-Sep	36	8-Sep	10-Sep						
12-9	5-Sep	36	15-Sep	27-Sep		7-Oct				
12-10	5-Sep	36	6-Sep	10-Sep						
13-1	5-Sep	36	13-Sep				19-Sep			
13-2	5-Sep	36								
13-3	5-Sep	36	14-Sep	15-Sep						
13-4	5-Sep	36	9-Sep	13-Sep						
13-5	5-Sep	36	7-Sep	6-Oct	13-Oct					
13-6	5-Sep	36								
13-7	6-Sep	36	7-Sep				14-Sep	17-Sep	19-Sep	
13-8	6-Sep	36	11-Sep				16-Sep	20-Sep	23-Sep	
13-9	6-Sep	36	8-Sep	10-Sep						
13-10	6-Sep	36	14-Sep	16-Sep		15-Oct				
14-1	6-Sep	36								
14-2	6-Sep	36								
14-3	6-Sep	36	9-Sep	27-Sep	2-Oct					
14-4	6-Sep	36	9-Sep				14-Sep	16-Sep		
14-5	6-Sep	36	11-Sep	15-Sep						
14-6	6-Sep	36	7-Sep				14-Sep	16-Sep	20-Sep	
14-7	6-Sep	36	9-Sep	12-Sep		4-Oct				
14-8	6-Sep	36	8-Sep				9-Oct			
14-9	6-Sep	36					1-Oct			
14-10	6-Sep	36	8-Sep				16-Sep			
15-1	7-Sep	36	11-Sep	15-Sep	19-Sep					
15-2	7-Sep	36	11-Sep				15-Sep	19-Sep	22-Sep	
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15-4	7-Sep	36	10-Sep	27-Sep						
15-5	7-Sep	36	16-Sep				21-Sep	28-Sep		
15-6	7-Sep	36	9-Sep	11-Sep						
15-7	7-Sep	36								
15-8	7-Sep	36	13-Sep							
15-9	7-Sep	36	11-Sep				17-Sep	20-Sep	22-Sep	
15-10	7-Sep	36	11-Sep	14-Sep		17-Oct				
16-1	8-Sep	36	22-Sep	23-Sep						
16-2	8-Sep	36	9-Sep				17-Sep			
16-3	8-Sep	36								
16-4	8-Sep	36	10-Sep							
16-5	8-Sep	36	10-Sep	12-Sep			18-Sep			
16-6	8-Sep	36	11-Sep				18-Sep	21-Sep	27-Sep	
16-7	8-Sep	36	11-Sep	13-Sep						
16-8	8-Sep	36								
16-9	8-Sep	36	10-Sep	13-Sep	25-Sep					
16-10	8-Sep	36	13-Sep	14-Sep						
17-1	8-Sep	36	14-Sep	15-Sep		3-Oct				
17-2	8-Sep	36	12-Sep							
17-3	8-Sep	36	10-Sep				16-Sep			
17-4	10-Sep	37	13-Sep	20-Sep	5-Oct					
17-5	10-Sep	37								
17-6	10-Sep	37	12-Sep							
17-7	10-Sep	37	12-Sep				18-Sep			
17-8	10-Sep	37								
17-9	10-Sep	37								

Tower logs for Stikine Coho Radio telemetry program 2006			Site #1 (Boundary House)	Site #2 (Iskut W.S.)	Site #3 (Craig Tower)	Site #4 (Iskut Snip)	Site #5 (Flood R.)	Site #6 (Butterfly Cr.)	Site #7 (Chutine R.)	Site #8 (Shakes Cr.)
Code-freq	Date Tag Applied	Stat wk applied	Date Entered	Date Entered	Date Entered	Date Entered	Date Entered	Date Entered	Date Entered	Date Entered
17-10	10-Sep	37								
18-1	10-Sep	37								
18-2	10-Sep	37	12-Sep	16-Sep						
18-3	10-Sep	37	12-Sep				1-Oct			
18-4	10-Sep	37	13-Sep	15-Sep	1-Oct					
18-5	10-Sep	37	18-Sep	19-Sep		12-Oct				
18-6	10-Sep	37	13-Sep	15-Sep						
18-7	11-Sep	37	20-Sep							
18-8	11-Sep	37								
18-9	11-Sep	37	13-Sep	14-Sep	1-Oct					
18-10	11-Sep	37	16-Sep							
19-1	11-Sep	37	12-Sep							
19-2	11-Sep	37	12-Sep				21-Sep	29-Sep		
19-3	11-Sep	37								
19-4	11-Sep	37	18-Sep				21-Sep	2-Oct		
19-5	11-Sep	37	16-Sep	17-Sep						
19-6	11-Sep	37	20-Sep							
19-7	12-Sep	37	13-Sep					17-Sep		
19-8	12-Sep	37	15-Sep					21-Sep		
19-9	12-Sep	37	14-Sep	16-Sep		5-Oct				
19-10	12-Sep	37	13-Sep	15-Sep	22-Sep					
20-1	12-Sep	37	14-Sep	19-Sep						
20-2	12-Sep	37								
20-3	12-Sep	37	19-Sep	20-Sep						
20-4	12-Sep	37								
20-5	12-Sep	37	15-Sep							
20-6	13-Sep	37	14-Sep				30-Sep			
20-7	13-Sep	37	15-Sep	30-Sep		5-Oct				
20-8	13-Sep	37	14-Sep				19-Sep	21-Sep		
20-9	13-Sep	37								
20-10	13-Sep	37	14-Sep	19-Sep	8-Oct					
21-1	13-Sep	37	15-Sep	22-Sep						
21-2	13-Sep	37								
21-3	13-Sep	37	18-Sep				3-Oct			
21-4	13-Sep	37	17-Sep	19-Sep	3-Oct					
21-5	14-Sep	37	21-Sep				9-Oct			
21-6	14-Sep	37	15-Sep	20-Sep						
21-7	14-Sep	37	18-Sep	19-Sep	3-Oct					
21-8	14-Sep	37	19-Sep				30-Sep	12-Oct		
21-9	14-Sep	37	21-Sep	22-Sep						
21-10	14-Sep	37	16-Sep	17-Sep	30-Sep					
22-1	14-Sep	37	17-Sep	18-Sep						
22-2	14-Sep	37	15-Sep							
22-3	14-Sep	37	21-Sep	2-Oct						
22-4	15-Sep	37	16-Sep	18-Sep						
22-5	15-Sep	37	21-Sep				3-Oct	7-Oct		
22-6	15-Sep	37	17-Sep	19-Sep		11-Oct				
22-7	15-Sep	37	21-Sep	23-Sep	6-Oct					
22-8	15-Sep	37	17-Sep	19-Sep	11-Oct					
22-9	15-Sep	37	21-Sep							
22-10	15-Sep	37	20-Sep				17-Oct			
23-1	15-Sep	37	16-Sep				2-Oct			
23-2	15-Sep	37								
23-3	17-Sep	38	19-Sep							
23-4	17-Sep	38	19-Sep							
23-5	17-Sep	38								
23-6	17-Sep	38	18-Sep	19-Sep						
23-7	17-Sep	38	26-Sep							
23-8	17-Sep	38	20-Sep				6-Oct			
23-9	17-Sep	38	21-Sep	22-Sep						
23-10	17-Sep	38	20-Sep	24-Sep						
24-1	17-Sep	38								
24-2	18-Sep	38								
24-3	18-Sep	38								
24-4	18-Sep	38	19-Sep	21-Sep						
24-5	18-Sep	38	19-Sep	21-Sep						
24-6	18-Sep	38								
24-7	18-Sep	38	23-Sep	4-Oct		22-Oct				
24-8	18-Sep	38	3-Oct	4-Oct		17-Oct				
24-9	18-Sep	38	19-Sep	21-Sep		7-Oct				
24-10	18-Sep	38								
25-1	19-Sep	38	21-Sep	1-Oct	17-Oct					
25-2	19-Sep	38								
25-3	19-Sep	38	20-Sep	25-Sep	15-Oct					
25-4	19-Sep	38	21-Sep							
25-5	19-Sep	38								
25-6	19-Sep	38	20-Sep	26-Sep						
25-7	19-Sep	38	20-Sep	22-Sep						
25-8	19-Sep	38	1-Oct	4-Oct		15-Oct				
25-9	20-Sep	38	21-Sep	22-Sep	2-Oct					
25-10	20-Sep	38	2-Oct				11-Oct	24-Oct		
26-1	20-Sep	38	1-Oct	4-Oct						
26-2	20-Sep	38	4-Oct	7-Oct						
26-3	20-Sep	38	21-Sep				6-Oct		17-Oct	
26-4	20-Sep	38	21-Sep				13-Oct			
26-5	20-Sep	38								
26-6	20-Sep	38								
26-7	20-Sep	38								

Tower logs for Stikine Coho Radio telemetry program 2006			Site #1 (Boundary House)	Site #2 (Iskut W.S.)	Site #3 (Craig Tower)	Site #4 (Iskut Snip)	Site #5 (Flood R.)	Site #6 (Butterfly Cr.)	Site #7 (Chutine R.)	Site #8 (Shakes Cr.)
Code-freq	Date Tag Applied	Stat wk applied	Date Entered	Date Entered	Date Entered	Date Entered	Date Entered	Date Entered	Date Entered	Date Entered
26-8	21-Sep	38								
26-9	21-Sep	38	2-Oct							
26-10	21-Sep	38	2-Oct							
27-1	21-Sep	38								
27-2	21-Sep	38								
27-3	21-Sep	38								
27-4	21-Sep	38	22-Sep	5-Oct						
27-5	21-Sep	38	2-Oct							
27-6	21-Sep	38								
27-7	22-Sep	38	2-Oct							
27-8	22-Sep	38	1-Oct				7-Oct	9-Oct		
27-9	22-Sep	38	2-Oct	6-Oct		24-Oct				
27-10	24-Sep	39								
28-1	24-Sep	39	2-Oct				13-Oct			
28-2	24-Sep	39	3-Oct							
28-3	24-Sep	39	1-Oct	24-Oct						
28-4	24-Sep	39	29-Sep							
28-5	24-Sep	39	30-Sep							
28-6	24-Sep	39	1-Oct							
28-7	24-Sep	39								
28-8	24-Sep	39								
28-9	25-Sep	39	14-Oct							
28-10	25-Sep	39	4-Oct							
29-1	25-Sep	39	3-Oct							
29-2	25-Sep	39	1-Oct	4-Oct		15-Oct				
29-3	26-Sep	39								
29-4	26-Sep	39	27-Sep							
29-5	26-Sep	39	2-Oct				10-Oct			
29-6	27-Sep	39	30-Sep	3-Oct						
29-7	27-Sep	39	4-Oct	8-Oct		19-Oct				
29-8	27-Sep	39	8-Oct							
29-9	27-Sep	39								
29-10	27-Sep	39								
30-1	28-Sep	39	6-Oct							
30-2	28-Sep	39	2-Oct				11-Oct	27-Oct		
30-3	28-Sep	39	1-Oct	2-Oct	7-Oct					
30-4	28-Sep	39	2-Oct	5-Oct	14-Oct					
30-5	28-Sep	39	30-Sep	5-Oct						
30-6	29-Sep	39	1-Oct							
30-7	29-Sep	39								
30-8	29-Sep	39	1-Oct	3-Oct						
30-9	29-Sep	39	1-Oct							
30-10	30-Sep	39	1-Oct							
31-1	30-Sep	39	1-Oct							
31-2	30-Sep	39	1-Oct	6-Oct		12-Oct				
31-3	30-Sep	39	2-Oct							
31-4	30-Sep	39								
31-5	30-Sep	39	2-Oct							
31-6	30-Sep	39								
31-7	30-Sep	39								
31-8	30-Sep	39	2-Oct	7-Oct	18-Oct					
31-9	30-Sep	39	2-Oct							
31-10	1-Oct	40	3-Oct	5-Oct						
32-1	1-Oct	40	2-Oct	5-Oct						
32-2	1-Oct	40								
32-3	1-Oct	40	2-Oct							
32-4	1-Oct	40								
32-5	1-Oct	40	2-Oct							
32-6	1-Oct	40								
32-7	1-Oct	40	2-Oct	6-Oct		15-Oct				
32-8	2-Oct	40	5-Oct	7-Oct	17-Oct					
32-9	2-Oct	40	5-Oct	6-Oct						
32-10	2-Oct	40								
33-1	3-Oct	40								
33-2	3-Oct	40								
33-3	3-Oct	40	5-Oct							
33-4	4-Oct	40	6-Oct							
33-5	4-Oct	40	5-Oct	9-Oct		21-Oct				
33-6	4-Oct	40								
33-7	4-Oct	40								
33-8	4-Oct	40	16-Oct							
33-9	4-Oct	40	8-Oct							
33-10	6-Oct	40	12-Oct							
34-1	6-Oct	40								
34-2	7-Oct	40								
34-3	8-Oct	41								
34-4	8-Oct	41								
34-5	10-Oct	41	10-Oct							
34-6	11-Oct	41								
34-7	11-Oct	41	12-Oct	17-Oct						
34-8	11-Oct	41	12-Oct	13-Oct		26-Oct				
34-9	11-Oct	41	13-Oct	18-Oct						
34-10	12-Oct	41								
35-1	13-Oct	41								
35-2	14-Oct	41								
35-3	15-Oct	42	18-Oct							
35-4	15-Oct	42	17-Oct							
35-5	16-Oct	42	19-Oct	27-Oct						

Appendix 2 Flight radio tag recoveries, 2006

Flight logs for Stikine Cohoh telemetry program			21-Sep				2-Nov			
Code- freq	Date Tag Applied	Stat wk applied	Latitude	Longitude	River Km.	River	Latitude	Longitude	River Km.	River
1-1	10-Aug	32					56 40.792	-131 11.468	7	Craig River
1-2	10-Aug	32								
1-3	10-Aug	32	56 40.379	-131 57.189	27	Stikine	56 40.208	-131 58.91	25	Stikine River
1-4	11-Aug	32								
1-5	12-Aug	32	57 5.029	-131 45.52	89	Stikine	57 14.792	-131 51.122	112	Stikine River
1-6	13-Aug	33	57 42.095	-131 59.215	25	Chutine	57 42.468	-132 0.601	27	Chutine River
1-7	13-Aug	33	56 40.688	-132 0.14	24	Stikine	56 41.267	-132 0.972	23	Stikine River
1-8	14-Aug	33	57 41.137	-132 9.097	36	Chutine	57 41.081	-132 14.387	42	Chutine River
1-9	14-Aug	33	56 36.846	-131 45.845	4	West Fork	56 37.521	-131 50.997	3	Kikake River
1-10	15-Aug	33	57 52.006	-131 16.256	206	Stikine	57 41.613	-132 4.324	31	Chutine River
2-1	16-Aug	33					56 42.078	-131 0.615	0	Verret Creek
2-2	17-Aug	33					56 41.465	-131 4.353	46	Iskut River
2-3	17-Aug	33	57 19.595	-131 50.42	123	Stikine	57 18.968	-131 51.56	118	Stikine River
2-4	17-Aug	33	56 38.573	-132 11.895	5	andrew creek				
2-5	17-Aug	33	56 40.131	-132 17.19	4	Stikine	56 39.001	-132 18.2	2	Stikine River
2-6	18-Aug	33	57 14.929	-131 50.927	112	Stikine	57 19.738	-131 50.531	124	Stikine River
2-7	18-Aug	33								
2-8	18-Aug	33	56 38.061	-131 42.892	8	Katete	56 37.918	-131 42.526	8	Katete River
2-9	19-Aug	33								
2-10	19-Aug	33	57 3.653	-131 44.569	0	Porcupine	57 4.693	-131 46.546	87	Stikine River
2-1	16-Aug	33					56 42.078	-131 0.615	0	Verret Creek
2-2	17-Aug	33					56 41.465	-131 4.353	46	Iskut River
3-3	20-Aug	34	57 15.901	-131 51.061	115	Stikine				
3-4	21-Aug	34	56 48.322	-131 46.946	53	Stikine	56 50.409	-131 46.057	56	Stikine River
3-5	21-Aug	34	57 42.592	-131 50.912	16	Chutine	57 41.427	-132 11.576	42	Chutine River
3-6	21-Aug	34								
3-7	21-Aug	34	57 34.763	-131 43.675	160	Stikine	57 41.212	-132 16.806	45	Chutine River
3-8	21-Aug	34	57 8.937	-131 42.56	97	Stikine				
3-9	22-Aug	34	57 40.75	-131 37.942	2	Chutine	57 41.613	-132 4.324	31	Chutine River
3-10	23-Aug	34								
4-1	23-Aug	34	56 42.706	-131 11.626	38	Iskut				
4-2	23-Aug	34	56 37.385	-131 45.784	2	West Fork	56 36.672	-131 39.927	12	Katete River
4-3	23-Aug	34	57 42.707	-131 54.632	20	Chutine	57 42.34	-131 58.541	25	Chutine River
4-4	23-Aug	34	57 15.482	-131 50.498	113	Stikine				
4-5	23-Aug	34	57 19.612	-131 50.791	124	Stikine	57 41.163	-132 8.872	36	Chutine River
4-6	24-Aug	34					56 41.962	-131 28.076	20	Iskut River
4-7	24-Aug	34					57 9.526	-131 43.678	100	Stikine River
4-8	24-Aug	34	57 38.855	-131 38.48	169	Stikine	57 41.353	-132 16.477	44	Chutine River
4-9	24-Aug	34	57 42.419	-132 0.351	26	Chutine	57 41.678	-132 18.128	46	Chutine River
4-10	24-Aug	34	56 41.919	-131 8.585	42	Iskut	56 41.872	-130 56.507	54	Iskut River
5-1	24-Aug	34	56 43.18	-131 31.546	17	Iskut	56 42.018	-131 28.471	19	Iskut River
5-2	24-Aug	34	56 36.618	-131 45.707	4	West Fork	56 37.094	-131 40.426	10	Katete River
5-3	24-Aug	34					56 41.164	-131 12.896	5	Craig River
5-4	24-Aug	34	56 43.18	-131 31.546	17	Iskut				
5-5	24-Aug	34	57 13.717	-131 49.316	110	Stikine				
5-6	24-Aug	34					56 34.492	-131 12.394	22	Craig River
5-7	25-Aug	34					57 17.699	-131 47.142	6	Scud River
5-8	25-Aug	34	57 17.642	-131 49.591	2	Scud				
5-9	25-Aug	34								
5-10	25-Aug	34	57 17.016	-131 49.37	1	Scud				
6-1	25-Aug	34	57 5.321	-131 45.278	90	Stikine	57 10.82	-131 46.764	104	Stikine River
6-2	25-Aug	34	57 3.986	-131 44.641	87	Stikine				
6-3	26-Aug	34					56 41.968	-131 1.771	48	Iskut River
6-4	26-Aug	34	57 34.141	-131 43.61	159	Stikine				
6-5	26-Aug	34	57 41.934	-131 41.125	7	Chutine	57 41.476	-132 11.806	39	Chutine River
6-6	26-Aug	34					56 38.919	-132 12.607	5	Andrew Creek
6-7	26-Aug	34					56 41.89	-131 19.666	29	Iskut River
6-8	27-Aug	35					56 55.892	-131 47.894	69	Stikine River
6-9	28-Aug	35					56 40.516	-132 0.303	24	Stikine River
6-10	28-Aug	35					57 9.021	-131 42.313	97	Stikine River
7-1	28-Aug	35								
7-2	28-Aug	35								
7-3	28-Aug	35	57 4.423	-131 46.646	87	Stikine				
7-4	28-Aug	35	57 39.082	-131 37.726	170	Stikine				
7-5	28-Aug	35	56 52.938	-131 47.825	63	Stikine	57 17.644	-131 47.232	6	Scud River
7-6	29-Aug	35	57 41.555	-131 45.878	11	Chutine	57 41.932	-131 42.076	7	Chutine River
7-7	29-Aug	35								
7-8	29-Aug	35	57 15.778	-131 49.415	113	Stikine				
7-9	29-Aug	35	57 19.591	-131 50.96	123	Stikine	57 41.723	-132 4.03	31	Chutine River
7-10	30-Aug	35					56 42.412	-132 4.629	18	Stikine River
8-1	30-Aug	35					56 33.225	-131 14.332	25	Craig River
8-2	30-Aug	35					57 3.737	-131 45.606	86	Stikine River
8-3	30-Aug	35	57 0.239	-131 46.185	77	Stikine	56 59.797	-131 46.277	76	Stikine River
8-4	30-Aug	35	57 20.251	-131 45.704	129	Stikine	57 41.247	-132 17.342	45	Chutine River
8-5	30-Aug	35	57 5.921	-131 43.26	92	Stikine				
8-6	30-Aug	35	56 37.067	-131 45.853	3	West Fork	56 38.006	-131 44.9	5	Katete River
8-7	30-Aug	35	56 40.829	-131 11.591	39	Iskut	56 41.093	-131 12.57	6	Craig River
8-8	30-Aug	35					56 43.452	-131 13.812	35	Iskut River
8-9	30-Aug	35					56 41.828	-130 56.644	54	Iskut River
8-10	30-Aug	35	57 15.574	-131 49.51	113	Stikine	57 17.695	-131 47.026	5	Scud River
9-1	31-Aug	35								
9-2	31-Aug	35					56 42.169	-131 20.914	27	Iskut River
9-3	31-Aug	35	56 43.202	-131 13.161	36	Iskut				

Flight logs for Stikine Cohoh telemetry program				21-Sep				2-Nov			
Code- freq	Date Applied	Tag Stat	wk applied	Latitude	Longitude	River Km.	River	Latitude	Longitude	River Km.	River
9-4	31-Aug		35								
9-5	31-Aug		35								
9-6	31-Aug		35								
9-7	31-Aug		35					56 41.278	-130 58.4	53	Iskut River
9-8	31-Aug		35	57 3.652	-131 47.423	85	Stikine	57 18.151	-131 47.864	5	Scud River
9-9	31-Aug		35								
9-10	31-Aug		35					56 41.492	-131 0.479	0	Verret Creek
10-1	1-Sep		35	56 43.18	-131 31.546	17	Iskut				
10-2	1-Sep		35					56 42.571	-131 30.541	17	Iskut River
10-3	1-Sep		35								
10-4	1-Sep		35	57 14.696	-131 49.881	112	Stikine				
10-5	1-Sep		35	57 4.129	-131 44.128	88	Stikine	57 5.465	-131 43.715	90	Stikine River
10-6	1-Sep		35	56 41.947	-131 22.195	26	Iskut	56 40.816	-131 11.825	7	Craig River
10-7	1-Sep		35								
10-8	3-Sep		36					56 34.482	-131 12.487	22	Craig River
10-9	3-Sep		36					57 41.447	-132 18.045	45	Chutine River
10-10	3-Sep		36	56 43.396	-131 14.514	35	Iskut				
11-1	3-Sep		36	57 15.396	-131 50.084	113	Stikine	57 14.963	-131 49.411	111	Stikine River
11-2	3-Sep		36					56 34.26	-131 12.875	27	Craig River
11-3	3-Sep		36	56 38.084	-131 42.994	7	Katete	56 31.948	-131 45.685	12	West Fork
11-4	3-Sep		36	57 42.509	-131 50.515	15	Chutine	57 41.264	-132 14.695	38	Chutine River
11-5	3-Sep		36	56 37.956	-131 42.538	7	Katete				
11-6	3-Sep		36	57 14.415	-131 51.048	112	Stikine				
11-7	3-Sep		36	56 41.849	-131 8.165	43	Iskut				
11-8	3-Sep		36	57 3.041	-131 41.756	3	Porcupine	57 2.993	-131 42.285	3	Porcupine River
11-9	3-Sep		36								
12-10	5-Sep		36								
12-1	4-Sep		36					56 36.812	-131 8.252	15	Craig River
12-2	4-Sep		36	56 42.701	-131 27.896	20	Iskut	56 43.676	-131 14.603	35	Iskut River
12-3	4-Sep		36								
12-4	5-Sep		36	57 3.58	-131 48.926	85	Stikine	57 41.059	-132 7.762	35	Chutine River
12-5	5-Sep		36					56 43.882	-131 38.563	9	Iskut River
12-6	5-Sep		36								
12-7	5-Sep		36					57 1.009	-131 38.707	9	Iskut River
12-8	5-Sep		36	56 42.796	-131 25.602	22	Iskut				
12-9	5-Sep		36	56 49.363	-131 46.147	55	Stikine	56 41.731	-130 59.452	0	Verret Creek
12-10	5-Sep		36								
13-1	5-Sep		36	57 5.214	-131 43.741	90	Stikine				
13-2	5-Sep		36								
13-3	5-Sep		36	56 43.222	-131 31.316	16	Iskut	56 42.701	-131 24.853	23	Iskut River
13-4	5-Sep		36	56 41.912	-131 22.432	26	Iskut	56 41.938	-131 21.415	27	Iskut River
13-5	5-Sep		36	56 52.377	-131 46.445	60	Stikine	56 47.353	-131 48.025	50	Stikine River
13-6	5-Sep		36					56 36.674	-131 45.735	4	West Fork
13-7	6-Sep		36					57 41.245	-132 11.171	42	Chutine River
13-8	6-Sep		36	57 33.397	-131 44.78	157	Stikine	57 41.369	-132 15.135	43	Chutine River
13-9	6-Sep		36								
13-10	6-Sep		36	56 43.407	-131 30.061	18	Iskut	56 41.32	-131 5.026	45	Iskut River
14-1	6-Sep		36	56 41.951	-132 2.142	21	Stikine	56 42.601	-132 6.368	16	Stikine River
14-2	6-Sep		36	56 45.044	-132 0.667	3	chief shakes	56 38.018	-131 51.714	2	Kikake River
14-3	6-Sep		36	56 37.718	-131 45.214	2	West Fork	56 34.38	-131 12.051	22	Craig River
14-4	6-Sep		36	57 39.149	-131 37.627	170	Stikine	57 41.186	-132 14.523	42	Chutine River
14-5	6-Sep		36	56 43.301	-131 13.811	35	Iskut				
14-6	6-Sep		36	57 41.307	-131 39.631	4	Chutine	57 41.258	-132 17.357	45	Chutine River
14-7	6-Sep		36	56 42.72	-131 24.876	23	Iskut	56 43.122	-131 16.295	33	Iskut River
14-8	6-Sep		36	57 6.085	-131 43.11	92	Stikine				
14-9	6-Sep		36								
14-10	6-Sep		36								
15-1	7-Sep		36					56 35.385	-131 11.247	20	Craig River
15-2	7-Sep		36	57 37.319	-131 40.523	166	Stikine	57 40.908	-132 9.129	36	Chutine River
15-3	7-Sep		36								
15-4	7-Sep		36					56 42.269	-131 25.034	23	Iskut River
15-5	7-Sep		36					57 41.057	-132 9.531	37	Chutine River
15-6	7-Sep		36	56 42.505	-131 30.496	17	Iskut	56 42.181	-131 29.274	18	Iskut River
15-7	7-Sep		36								
15-8	7-Sep		36					56 50.701	-131 46.177	57	Stikine River
15-9	7-Sep		36					57 41.99	-132 18.14	46	Chutine River
15-10	7-Sep		36								
16-1	8-Sep		36	56 42.406	-132 3.734	19	Stikine	56 42.098	-131 29.575	18	Iskut River
16-2	8-Sep		36	57 14.89	-131 50.995	112	Stikine				
16-3	8-Sep		36	56 37.17	-131 45.856	3	West Fork	56 35.637	-131 45.514	5	West Fork
16-4	8-Sep		36	57 4.403	-131 43.756	89	Stikine	57 8.02	-131 41.91	96	Stikine River
16-5	8-Sep		36					57 1.334	-131 39.145	7	Porcupine River
16-6	8-Sep		36					57 41.403	-132 15.377	43	Chutine River
16-7	8-Sep		36	56 43.419	-131 34.676	14	Iskut				
16-8	8-Sep		36								
16-9	8-Sep		36	56 42.184	-131 19.608	29	Iskut	56 38.317	-131 8.853	12	Craig River
16-10	8-Sep		36					56 42.006	-131 9.683	40	Iskut River
17-1	8-Sep		36	56 42.398	-131 17.054	32	Iskut	56 41.495	-131 5.539	45	Iskut River
17-2	8-Sep		36	56 38.545	-131 45.268	5	Katete	56 37.898	-131 45.152	1	West Fork
17-3	8-Sep		36								
17-4	10-Sep		37	56 44.341	-131 41.36	7	Iskut	56 35.104	-131 11.247	20	Craig River
17-5	10-Sep		37	56 40.327	-131 57.681	27	Stikine	56 40.2	-131 58.821	25	Stikine River
17-6	10-Sep		37	57 4.796	-131 43.706	90	Stikine	57 1.898	-131 39.425	6	Porcupine River
17-7	10-Sep		37	57 23.29	-131 48.295	135	Stikine	57 23.38	-131 48.202	135	Stikine River
17-8	10-Sep		37	56 42.382	-132 7.808	15	Stikine	56 41.681	-132 10.624	12	Stikine River
17-9	10-Sep		37	56 38.554	-131 45.191	0	West Fork	56 37.357	-131 40.992	10	Katete River

Flight logs for Stikine Coho telemetry program				21-Sep				2-Nov			
Code- freq	Date Applied	Tag Stat applied	wk applied	Latitude	Longitude	River Km.	River	Latitude	Longitude	River Km.	River
17-10	10-Sep	37		56 40.31	-131 57.863	27	Stikine	56 40.238	-131 59.144	25	Stikine River
18-1	10-Sep	37		56 40.994	-132 0.475	23	Stikine	56 41.519	-132 1.358	23	Stikine River
18-2	10-Sep	37		56 42.89	-131 15.781	33	Iskut	56 41.666	-131 6.343	44	Iskut River
18-3	10-Sep	37		56 47.911	-131 46.522	52	Stikine	57 14.005	-131 49.225	110	Stikine River
18-4	10-Sep	37		56 43.18	-131 31.546	17	Iskut	56 37.646	-131 8.453	14	Craig River
18-5	10-Sep	37						56 41.057	-131 1.895	47	Iskut River
18-6	10-Sep	37		56 44.263	-131 40.471	8	Iskut	56 41.881	-131 24.131	24	Iskut River
18-7	11-Sep	37		56 37.799	-131 45.071	2	West Fork	56 31.322	-131 45.815	17	West Fork
18-8	11-Sep	37									
18-9	11-Sep	37						56 38.051	-131 8.615	13	Craig River
18-10	11-Sep	37		56 38.465	-131 44.907	5	Katete	56 40.099	-131 49.905	36	Stikine River
19-1	11-Sep	37									
19-2	11-Sep	37		57 9.039	-131 43.531	98	Stikine	57 42.764	-132 3.591	30	Chutine River
19-3	11-Sep	37									
19-4	11-Sep	37						57 41.36	-132 15.035	43	Chutine River
19-5	11-Sep	37		56 42.492	-131 33.695	14	Iskut	56 42.073	-131 32.362	16	Iskut River
19-6	11-Sep	37		56 50	-131 45.925	56	Stikine	56 59.698	-131 44.094	76	Stikine River
19-7	12-Sep	37		57 19.747	-131 49.967	125	Stikine	57 41.625	-132 4.546	32	Chutine River
19-8	12-Sep	37									
19-9	12-Sep	37		56 43.279	-131 15.764	33	Iskut	56 41.752	-131 0.058	0	Verret Creek
19-10	12-Sep	37		56 42.173	-131 19.948	28	Iskut	56 31.353	-131 15.31	29	Craig River
20-1	12-Sep	37		56 42.14	-131 20.648	27	Iskut				
20-2	12-Sep	37		56 42.955	-132 4.604	18	Stikine				
20-3	12-Sep	37		56 43.758	-131 37.507	10	Iskut	56 42.068	-131 21.735	27	Iskut River
20-4	12-Sep	37						56 43.114	-132 10.52	12	Stikine River
20-5	12-Sep	37		56 51.191	-131 46.399	58	Stikine				
20-6	13-Sep	37		56 58.589	-131 45.844	75	Stikine				
20-7	13-Sep	37		57 3.907	-131 46.822	86	Stikine	56 41.569	-131 0.067	0	Verret Creek
20-8	13-Sep	37		57 23.72	-131 47.386	137	Stikine	57 41.466	-132 16.095	44	Chutine River
20-9	13-Sep	37		56 37.648	-131 41.902	9	Katete	56 37.102	-131 40.115	11	Katete River
20-10	13-Sep	37		56 43.278	-131 34	14	Iskut	56 34.503	-131 12.704	23	Craig River
21-1	13-Sep	37						56 42.269	-131 21.567	27	Iskut River
21-2	13-Sep	37									
21-3	13-Sep	37		57 2.846	-131 48.171	84	Stikine				
21-4	13-Sep	37		56 43.39	-131 30.505	17	Iskut	56 38.199	-131 8.252	8	Craig River
21-5	14-Sep	37		56 39.728	-131 50.064	35	Stikine	57 41.635	-132 6.736	33	Chutine River
21-6	14-Sep	37		56 43.501	-131 35.116	13	Iskut	56 43.697	-131 14.215	35	Iskut River
21-7	14-Sep	37		56 43.138	-131 28.498	19	Iskut				
21-8	14-Sep	37		56 56.642	-131 48.463	70	Stikine	57 41.613	-132 4.324	31	Chutine River
21-9	14-Sep	37									
21-10	14-Sep	37		56 42.657	-131 24.238	23	Iskut	56 33.872	-131 13.765	24	Craig River
22-1	14-Sep	37									
22-2	14-Sep	37		56 54.694	-131 47.833	67	Stikine				
22-3	14-Sep	37		56 41.097	-131 48.547	39	Stikine	56 41.917	-131 20.894	27	Iskut River
22-4	15-Sep	37									
22-5	15-Sep	37		56 38.999	-131 53.546	33	Stikine	57 41.058	-132 9.247	36	Chutine River
22-6	15-Sep	37		56 43.202	-131 28.824	18	Iskut				
22-7	15-Sep	37		56 39.244	-131 50.811	35	Stikine	56 31.397	-131 15.184	29	Craig River
22-8	15-Sep	37						56 36.129	-131 9.439	17	Craig River
22-9	15-Sep	37		56 39.029	-131 48.068	2	Katete	56 37.957	-131 43.8	7	Katete River
22-10	15-Sep	37		56 47.438	-131 46.153	52	Stikine	57 14.954	-131 50.354	112	Stikine River
23-1	15-Sep	37		56 59.902	-131 46.527	77	Stikine	57 41.157	-132 16.7	44	Chutine River
23-2	15-Sep	37									
23-3	17-Sep	38						57 1.844	-131 39.865	7	Porcupine River
23-4	17-Sep	38		56 38.372	-131 44.87	5	Katete	56 47.324	-131 47.664	50	Stikine River
23-5	17-Sep	38		56 40.828	-132 0.338	23	Stikine	56 42.234	-132 3.695	20	Stikine River
23-6	17-Sep	38						56 42.938	-131 36.014	12	Iskut River
23-7	17-Sep	38						56 39.569	-131 48.283	0	Katete River
23-8	17-Sep	38		56 45.051	-131 45.578	2	Iskut	57 14.422	-131 51.862	2	Christina creek
23-9	17-Sep	38		56 39.472	-131 50.412	35	Stikine				
23-10	17-Sep	38		56 43.51	-132 3.236	1	chief shakes	56 44.19	-131 39.541	8	Iskut River
24-1	17-Sep	38		56 40.079	-131 56.206	28	Stikine				
24-2	18-Sep	38		56 40.219	-131 56.573	28	Stikine				
24-3	18-Sep	38									
24-4	18-Sep	38		56 44.32	-131 41.131	7	Iskut	56 42.169	-131 24.652	23	Iskut River
24-5	18-Sep	38		56 43.643	-131 35.804	12	Iskut	56 42.767	-131 33.352	15	Iskut River
24-6	18-Sep	38									
24-7	18-Sep	38		56 42.031	-132 2.384	20	Stikine	56 41.537	-131 0.422	0	Verret Creek
24-8	18-Sep	38						56 41.576	-131 4.777	45	Iskut River
24-9	18-Sep	38		56 43.091	-131 33.078	15	Iskut				
24-10	18-Sep	38									
25-1	19-Sep	38		56 41.387	-131 48.45	40	Stikine	56 41.495	-131 5.74	45	Iskut River
25-2	19-Sep	38		56 42.496	-132 4.288	18	Stikine	56 42.518	-132 8.998	13	Stikine River
25-3	19-Sep	38		56 44.68	-131 42.514	5	Iskut	56 35.838	-131 10.342	23	Craig River
25-4	19-Sep	38		56 39.168	-131 52.02	34	Stikine	56 39.807	-131 48.595	0	Katete River
25-5	19-Sep	38		56 43.391	-132 3.458	1	chief shakes	56 43.856	-132 3.223	20	Kettili River
25-6	19-Sep	38		56 44.815	-131 47.518	46	Stikine	56 42.464	-131 31.075	17	Iskut River
25-7	19-Sep	38		56 45.088	-131 47.662	47	Stikine	56 43.424	-131 31.665	17	Iskut River
25-8	19-Sep	38		56 39.375	-132 17.603	3	Stikine				
25-9	20-Sep	38		56 42.841	-131 47.075	43	Stikine				
25-10	20-Sep	38						57 41.613	-132 4.324	31	Chutine River
26-1	20-Sep	38						56 42.601	-131 31.685	17	Iskut River
26-2	20-Sep	38		56 41.998	-132 2.288	21	Stikine	56 40.892	-131 12.352	7	Craig River
26-3	20-Sep	38						57 41.488	-132 16.522	44	Chutine River
26-4	20-Sep	38		56 39.09	-131 53.197	33	Stikine	57 42.659	-131 56.695	23	Chutine River
26-5	20-Sep	38									
26-6	20-Sep	38		56 40.391	-131 57.353	28	Stikine	56 38.916	-131 54.01	32	Stikine River
26-7	20-Sep	38		56 41.41	-131 58.077	4	kettili				

Flight logs for Stikine Cohoh telemetry program				21-Sep				2-Nov			
Code-	Date	Tag	Stat	Latitude	Longitude	River Km.	River	Latitude	Longitude	River Km.	River
freq	Applied	applied	wk								
26-8	21-Sep	38		56 40.262	-131 58.618	26	Stikine				
26-9	21-Sep	38		56 42.467	-132 4.069	19	Stikine				
26-10	21-Sep	38		56 42.502	-132 4.283	19	Stikine	57 1.641	-131 47.443	80	Stikine River
27-1	21-Sep	38		56 41.053	-132 15.216	6	Stikine				
27-2	21-Sep	38		56 42.055	-132 2.494	21	Stikine	56 37.726	-131 51.044	3	Kikake River
27-3	21-Sep	38		56 42.166	-132 2.818	20	Stikine				
27-4	21-Sep	38		56 41.401	-132 0.965	22	Stikine				
27-5	21-Sep	38		56 41.75	-132 1.595	22	Stikine	56 39.042	-131 47.093	3	Katete River
27-6	21-Sep	38		56 40.39	-131 59.632	25	Stikine	56 40.514	-131 56.407	28	Stikine River
27-7	22-Sep	38						56 35.559	-131 45.843	5	West Fork
27-8	22-Sep	38						57 41.613	-132 4.324	31	Chutine River
27-9	22-Sep	38						56 41.775	-130 59.863	0	Verret Creek
27-10	24-Sep	39						56 37.931	-131 43.643	7	Katete River
28-1	24-Sep	39									
28-2	24-Sep	39									
28-3	24-Sep	39						56 43.445	-131 14.663	35	Iskut River
28-4	24-Sep	39									
28-5	24-Sep	39						56 39.414	-131 47.634	2	Katete River
28-6	24-Sep	39						57 2.645	-131 40.2	5	Porcupine River
28-7	24-Sep	39						56 42.583	-132 6.29	16	Stikine River
28-8	24-Sep	39									
28-9	25-Sep	39						56 38.669	-131 53.923	32	Stikine River
28-10	25-Sep	39						56 38.419	-131 44.833	5	Katete River
29-1	25-Sep	39									
29-2	25-Sep	39						56 41.666	-131 0.896	0	Verret Creek
29-3	26-Sep	39									
29-4	26-Sep	39						56 38.099	-131 43.243	12	Katete River
29-5	26-Sep	39						57 19.162	-131 41.723	12	Scud River
29-6	27-Sep	39						56 41.96	-131 28.924	19	Iskut River
29-7	27-Sep	39									
29-8	27-Sep	39						57 2.536	-131 48.184	83	Stikine River
29-9	27-Sep	39						56 36.601	-131 39.7	12	Katete River
29-10	27-Sep	39						56 37.283	-131 40.79	10	Katete River
30-1	28-Sep	39						56 38.45	-131 52.643	33	Stikine River
30-2	28-Sep	39						57 41.558	-131 46.43	11	Chutine River
30-3	28-Sep	39						56 35.305	-131 11.563	20	Craig River
30-4	28-Sep	39						56 41.234	-131 13.473	5	Craig River
30-5	28-Sep	39									
30-6	29-Sep	39						57 4.583	-131 46.613	87	Stikine River
30-7	29-Sep	39						56 39.588	-131 48.063	2	Katete River
30-8	29-Sep	39									
30-9	29-Sep	39						57 0.812	-131 36.001	10	Porcupine River
30-10	30-Sep	39						56 37.901	-131 42.433	8	Katete River
31-1	30-Sep	39									
31-2	30-Sep	39						56 42.44	-131 0.193	0	Verret Creek
31-3	30-Sep	39						57 1.565	-131 38.853	8	Porcupine River
31-4	30-Sep	39						56 41.435	-131 57.613	0	Ketili River
31-5	30-Sep	39						56 39.063	-131 51.953	33	Stikine River
31-6	30-Sep	39						56 39.611	-131 58.4	26	Stikine River
31-7	30-Sep	39						56 37.579	-131 41.661	9	Katete River
31-8	30-Sep	39						56 35.753	-131 9.997	18	Craig River
31-9	30-Sep	39									
31-10	1-Oct	40									
32-1	1-Oct	40						56 41.194	-131 5.539	45	Iskut River
32-2	1-Oct	40									
32-3	1-Oct	40						57 6.896	-131 42.292	94	Stikine River
32-4	1-Oct	40									
32-5	1-Oct	40									
32-6	1-Oct	40									
32-7	1-Oct	40						56 42.152	-130 56.763	54	Iskut River
32-8	2-Oct	40						56 36.108	-131 9.155	17	Craig River
32-9	2-Oct	40						56 42.803	-131 11.803	37	Iskut River
32-10	2-Oct	40									
33-1	3-Oct	40						56 42.938	-132 5.887	17	Stikine River
33-2	3-Oct	40									
33-3	3-Oct	40									
33-4	4-Oct	40									
33-5	4-Oct	40						56 41.735	-131 1.256	49	Iskut River
33-6	4-Oct	40						56 42.532	-132 5.462	17	Stikine River
33-7	4-Oct	40									
33-8	4-Oct	40									
33-9	4-Oct	40						56 37.277	-131 40.673	10	Katete River
33-10	6-Oct	40						57 3.745	-131 45.483	87	Stikine River
34-1	6-Oct	40						56 39.414	-132 17.673	2	Stikine River
34-2	7-Oct	40						56 38.42	-131 53.051	1	Kikake River
34-3	8-Oct	41						56 38.179	-131 43.022	7	Katete River
34-4	8-Oct	41									
34-5	10-Oct	41						56 36.253	-131 39.37	12	Katete River
34-6	11-Oct	41						56 37.915	-131 42.563	7	Katete River
34-7	11-Oct	41						56 42.901	-131 24.313	24	Iskut River
34-8	11-Oct	41						56 41.675	-131 0.27	0	Verret Creek
34-9	11-Oct	41						56 43.541	-131 14.133	35	Iskut River
34-10	12-Oct	41									
35-1	13-Oct	41						56 43.747	-132 7.188	16	Stikine River
35-2	14-Oct	41						56 39.827	-131 58.263	26	Stikine River
35-3	15-Oct	42						57 2.832	-131 41.113	3	Porcupine River
35-4	15-Oct	42						57 0.107	-131 44.523	76	Stikine River
35-5	16-Oct	42						56 41.834	-131 22.403	25	Iskut River