



AREVA Resources Canada Inc.

Kiggavik Project, Nunavut

Monthly Wildlife Report

August 1 – August 31, 2015

1 Introduction

During the 2015 Kiggavik exploration program, wildlife monitoring has been carried out in accordance with the Kiggavik Project Wildlife Mitigation and Monitoring Plan (WMMP). One of the requirements within this plan is monthly reporting. This report covers the month of August and is the last report for the 2015 field season.

2 Local Wildlife Monitors

Throughout August, AREVA employed Wildlife Monitors from Baker Lake; Timothy Evviuk, Floyd Aksawnee, and Patrick Perkinson. Wildlife Monitors are responsible for notifying the Project Geologist and/or Safety, Health, Environment, and Quality (SHEQ) Supervisor of approaching caribou herds and determining their distance from activities. The monitors also determine when the herds are a sufficient distance for activities to resume in the event that caribou proximities dictate a shutdown of operations. Monitoring occurred throughout August, which involves the Wildlife Monitor travelling to the five height-of-land (HOL) stations around camp and occasional visits outside of camp when required. The Wildlife Monitor records sighting information that includes species, number of individuals, location and activity observed, direction of travel, date, and time. Sighting information is incorporated into the monthly Wildlife Report which is distributed monthly to various regulatory organizations and non-governmental organizations, such as local Hunter and Trapper Organizations (HTOs). The HOL locations around camp are shown in Figure 1 below. While on site, the Wildlife Monitors liaise with the SHEQ Supervisor to determine if monitoring is warranted at specific locations besides the HOL locations.



Figure 1 - Wildlife Monitoring Height of Land (HOL) Locations

3 Wildlife Sightings

Observation methods vary with sightings provided from personnel in camp, the field, aerial flights, and the Wildlife Monitors. Sightings are recorded at various locations and transcribed into an environmental data spreadsheet (Table A.1 in Appendix A). Table 1 provides a summary of the wildlife observations for July. Sighting details vary with the observer, but typically include information regarding the species observed, the number present, behaviour, location, and whether a disturbance occurred. No animals were disturbed during the month of August.

Table 1 - August Kiggavik Wildlife Summary

Species	Wildlife Sightings	Total Number Observed
Arctic Hare*	0	0
Caribou	7	404
Muskox	10	223
Ptarmigan*	0	0
Sandhill Cranes	3	22
Canadian Geese	2	25
Artic Fox	1	1
Siksik (Ground Squirrel)*	0	0
Wolf	3	3
Total	26	678

*Species were observed, but not reported.

¹Refer to Table A.1 in Appendix A for observation estimates. This total discounts repeat sightings. The maximum estimate of individuals observed is included here.

3.1 Observation Methods

In addition to regular observations from local Wildlife Monitors, AREVA personnel, contractors, and site visitors record wildlife sightings as well. Wildlife observation logs are placed in the camp kitchen, camp office, and in each helicopter for ease of recording wildlife sightings. During site orientation, Kiggavik personnel are informed of the wildlife observation log locations and are encouraged to report all wildlife sightings. Table A.1 in Appendix A provides all wildlife observations for the month of August and indicates the method of observation.

The Kiggavik camp uses two helicopters throughout the field season for transport of personnel and to provide drill support. Long range flights are occasionally made between Baker Lake and Kiggavik, while short range flights are commonly made between the Kiggavik camp and drilling rigs. Pilots and passengers record aerial wildlife observations from the helicopter during these flights.

The Government of Northwest Territories (GNWT) provide collaring data showing collar movements. The issuance of collar data enables proper implementation of the WMMP as a source of caribou movements. All helicopter flights are monitored for compliance with altitude constraints when caribou are observed in the area.

3.2 Wildlife Observations

On August 9, a driller observed a herd of about 200 caribou located in the Andrew Lake area where an active drill rig was operating. No caribou were disturbed and flight altitudes were maintained above 610 m (refer to Section 4).

The herd of caribou was observed within the 2 km buffer zone from the Andrew Lake drilling rig. Mitigation measures were implemented including a shutdown of drilling operations and monitoring of the herd to ensure minimal disturbances. The caribou herd moved away from the area and drilling resumed on August 10 at 7:00 am.

In addition to the caribou herd observations, there were a total of 26 separate wildlife sightings summarized in Table 1 above. Muskox were consistently observed (10 sightings) in the Kiggavik area in August. Wolves were spotted on three occasions and migrating birds were frequently encountered in August. Many species of animals were observed but may not have been fully reported due to their common nature around the camp.

4 Flight Altitudes

The Kiggavik WMMP requires that long range flights be flown a minimum of 610 m (2000 ft) above ground, and short range flights be flown 300 m (1000 ft) above ground with exceptions for low-level ceiling conditions, slinging activity, or risks to flight safety. The pilots have been compliant with altitude restrictions required for both long range and short range flights.

Through the internet based WebSentinel program, helicopter altitudes are tracked and periodically checked by the SHEQ Supervisor. The WebSentinel program allows the SHEQ Supervisor to cross reference with flight reports to ensure pilots are compliant with altitude constraints for long and short range flights. Figure B.1 and B.2 in Appendix B provides the altitude verification for long and short range flights from the Kiggavik Camp for August 12 and August 14 respectively. Note that for long range flights, altitude was maintained above 610 m, in accordance with the WMMP. Baker Lake residents wishing to view helicopter altitudes are welcome to inquire at AREVA's office in Baker Lake.

APPENDIX A –Wildlife Observation Log

Table A.1 – July Wildlife Observation Log

1-Aug-2015	9:30 AM	Aerial Observation	Wolverine	1	Near Andrew Lake	No	-	-	-	-	Running	Mike	Juvenile wolverine
1-Aug-2015	10:00 AM	Field Observation	Muskox	25	NE Grid	No	-	-	-	-	Grazing	Adam E.	
2-Aug-2015	-	Aerial Observation	Wolf	1	1.5 km NW of Camp	No	-	-	-	-	-	-	
2-Aug-2015	-	Aerial Observation	Caribou	1	500 m S of Andrew Lake Core area	No	-	-	-	-	-	-	
2-Aug-2015	-	Aerial Observation	Muskox	1	12 km SW of Camp	No	-	-	-	-	-	-	
2-Aug-2015	9:30 AM	Camp Observation	Wolf	1	Between Fuel Cache and Camp	No	-	-	-	-	Walking by	Floyd	
3-Aug-2015	-	Aerial Observation	Caribou	1	1 mi west of Andrew Lake	No	-	-	-	-	-	-	Bull caribou
5-Aug-2015	9:20 AM	Camp Observation	Wolf	1	NE of Camp	No	-	-	-	-	-	Timothy	
6-Aug-2015	11:32 AM	Aerial Observation	Muskox	2	Shultz Lake	No	-	-	-	-	Looking Happy	Dani	
8-Aug-2015	12:00 PM	Field Observation	Sandhill Crane	8	Main Zone NE of camp	No	-	-	-	-	Flying	Rachael	
8-Aug-2015	1:30 PM	Field Observation	Muskox	30	2 km NE of Camp	No	-	-	-	-	Looking at us looking at them	Rachael	
9-Aug-2015	9:00 PM	Aerial Observation	Muskox	40	Shultz Lake	No	-	-	-	-	Grazing	Hilliard	

9-Aug-2015	9:50 PM	Field Observation	Caribou	200	1 km east of Drill #1 at Andrew Lake area	No	-	-	-	-	Walking	Mike Taylor	Drill #1 shutdown as Caribou were within 2 km of operations as per the WMMP
10-Aug-2015	7:00 AM	Aerial Observation	Caribou	200	4 km West of Drill #1 at Andrew Lake area	No	-	-	-	-	Walking	Mario	Drill #1 approved to resume drilling at 7:00 am
12-Aug-2015	-	Camp Observation	Caribou	1	SW of Camp	No	-	-	-	-	Grazing	Brad	
13-Aug-2015	-	Camp Observation	Muskox	40	South of Camp	No	-	-	-	-	Grazing	Brad	
14-Aug-2015	-	Field Observation	Sandhill Crane	2	S of Camp	No	-	-	-	-	Flying	Brad	
15-Aug-2015	-	Camp Observation	Canadian Geese	10	South of Camp	No	-	-	-	-	Grazing	Brad	
15-Aug-2015	-	Field Observation	Caribou	1	Granite Grid	No	-	-	-	-	Running	Dillon	Caribou Seemed to be irritated with the employee's presence. Charged and then backed off
15-Aug-2015	-	Aerial Observation	Muskox	2	Caribou Grid	No	-	-	-	-	Grazing	Dani	
16-Aug-2015	-	Aerial Observation	Muskox	1	Andrew Lake	No	-	-	-	-	Grazing	Mario	
17-Aug-2015	3:30 AM	Camp Observation	Muskox	32	South of Camp	No	-	-	-	-	Grazing	Floyd	
17-Aug-2015	7:45 AM	Camp Observation	Artic Fox	1	North East of Camp	No	-	-	-	-	Minding his own business	Hilliard	
19-Aug-2015	-	Aerial Observation	Muskox	50	Near Fuel Cache	No	-	-	-	-	Grazing	Dave	
19-Aug-2015	-	Camp Observation	Canadian Geese	15	Camp	No	-	-	-	-	Flying	Brad	
20-Aug-2015	-	Field Observation	Sandhill Crane	12	Jane Grid	No	-	-	-	-	Walking around and Flying	Brad	

APPENDIX B – Flight Altitude Check

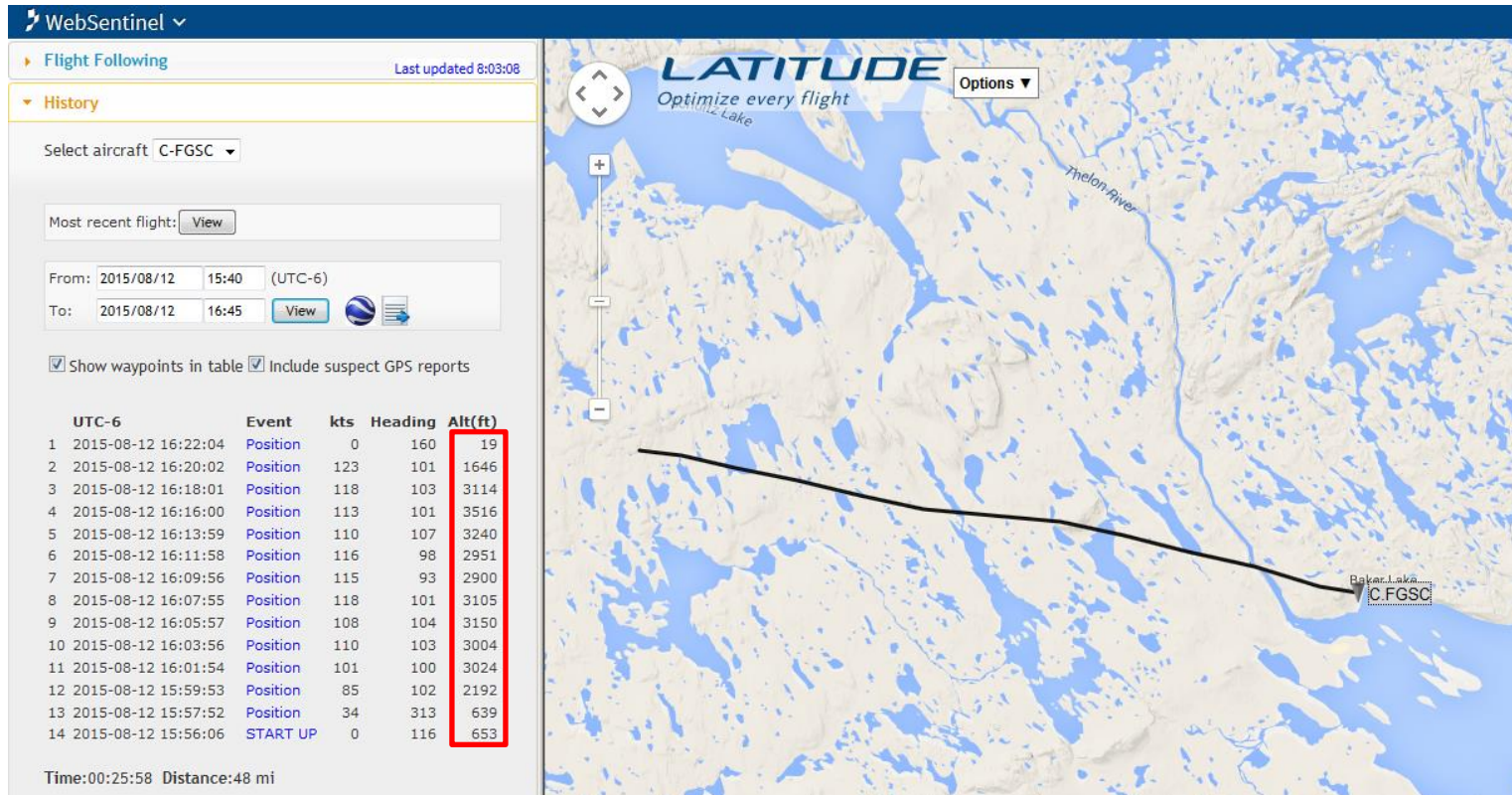


Figure B.1 – Long Range Flight Altitude Verification for August 12, 2015

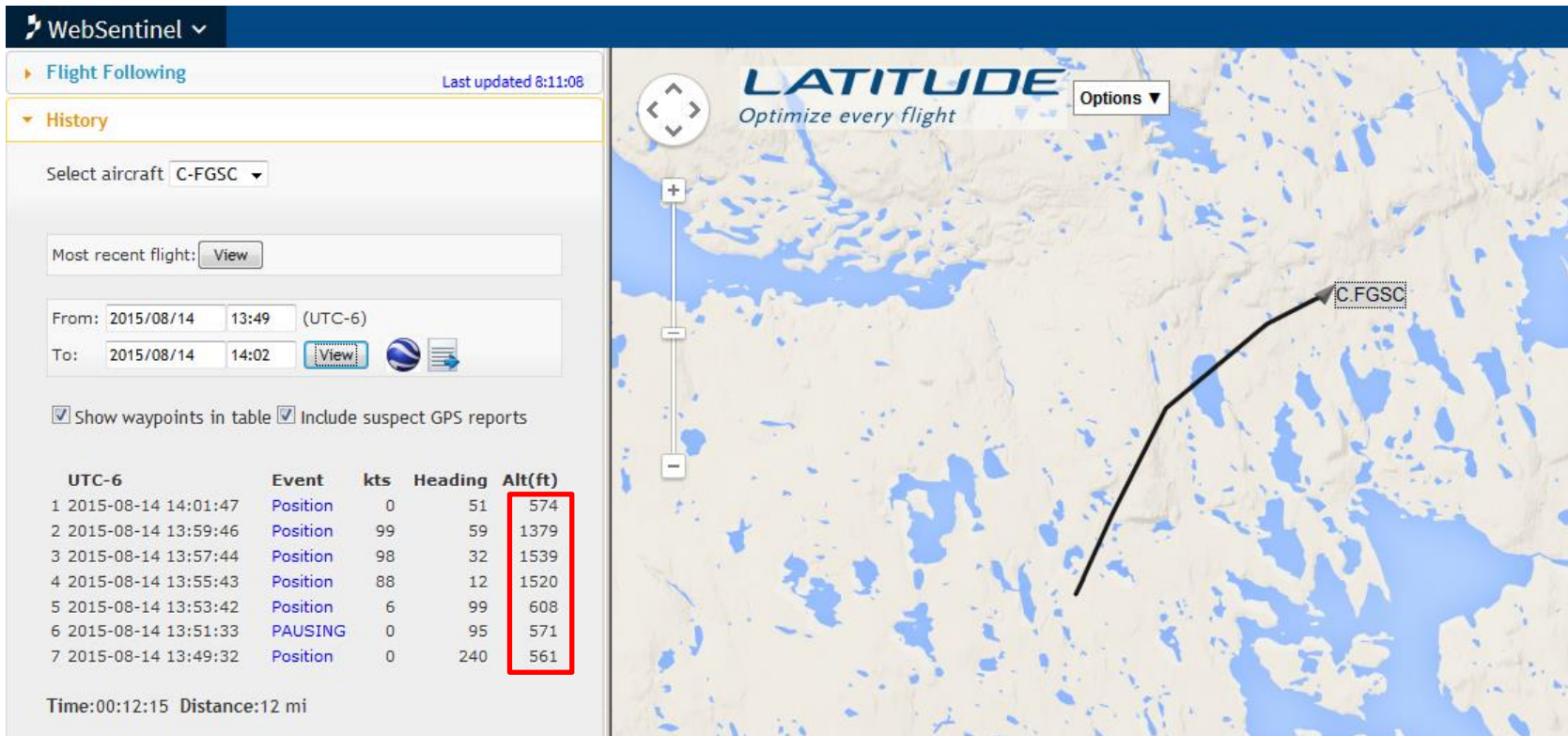


Figure B.2 – Short Range Flight Altitude Verification for August 14, 2015