

Risk & Release Agreement

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I. Expedition Summary

Expedition Name

Lotus Flower Power

Objectives

The first objective of our expedition is to climb stellar alpine granite in a safe and enjoyable manner. The safety and well-being of each team member will be the primary objective over the course of our expedition. We feel we have grown as a climbing team together through our shared climbing experiences, and want to challenge ourselves on bigger objectives in the more remote setting of northwestern Canada. Another objective is continued growth as a climbing team. This trip would give us the opportunity for further growth and challenge. We feel we have made significant preparations for this expedition, and look forward to the opportunity to experience both a beautiful, remote area, as well as the climbing opportunity of a lifetime.

Location

Cirque of the Unclimbables, Nahanni National Park Reserve, Northwest Territories, Canada

Departure Date

Aug 14, 2014 12:00am

Return Date

Aug 31, 2014 12:00am

Days in the Field

12

Wilderness Character

The Cirque of the Unclimbables is located in the Nahanni National Park Reserve in the Northwest Territories of Canada near the border with the Yukon Territories. In order to reach the Cirque, we will take an hour-long float plane trip, followed by a 2-mile hike into Fairy Meadows. No roads lead to within one hundred miles of the Cirque. In essence, the Cirque of the Unclimbables is a pristine, remote location. We will be spending 12 days in the backcountry between Glacier Lake and the Cirque of the Unclimbables.

II. Participant Qualifications

Participants' Graduation Date

Mareya Becker- May 2014

Hannah Trim- May 2014

Lauren Hebert- May 2014

Medical Certifications

Mareya Becker- WFR Expires April 28, 2015

Hannah Trim- WFR Expires June 3, 2015

Lauren Hebert- WFR Expires January 16, 2015

Does your group have adequate experience?

Yes

Training Plan

Each of the participants in our expedition took a comprehensive rock rescue course last year in order to prepare for our previous Ritt Kellogg Expedition Grant (Wind River Ladies). Additionally, before our currently proposed expedition, each member of our team will have taken the AMGA single pitch instructor course to further solidify our skills. In addition to trainings, our team will attempt several rock climbing objectives between now and the time of our expedition in order to solidify our technical skills and process as a three-person team. These routes will include:

Escape Artist, 5.10a, 7 pitches, Grade III, Black Canyon of the Gunnison

Sidetrack, 5.9, 6 pitches, Grade III, Lumpy Ridge

Stolen Chimney, 5.10 A0, 4 pitches, Ancient Art, Fisher Towers

Center Route, 5.9+, 3 pitches, Cynical Pinnacle

Additionally, we will practice the process of using a 3:1 haul system with an ascender to haul our gear with a static line. This is a system we are all familiar with. We will also practice our rock rescue skills, as we will be climbing in a remote location and will want those skills to be solidified.

III. Expedition Logistics, Gear and Food

Travel Plan

The three of us will drive from Colorado Springs to Finlayson Lake (see itinerary for directions). From Finlayson lake we will take a floatplane chartered by Kluane Airways to Glacier Lake. From Glacier Lake we will hike to Fairy Meadows (see itinerary). After our expedition we will repeat the steps in reverse, hiking from Fairy Meadows down to Glacier Lake and taking a floatplane via Kluane Airways from Glacier Lake to Finlayson Lake where we will drive back to Colorado Springs.

Expedition Itinerary

[Expedition Itinerary.docx](#) (9.3MB)

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Re-Ration Plans

We can leave a week's worth of food at a secure shed at Glacier Lake, and spend one day hiking back down from Fairy Meadows to retrieve it. This way, we only need to carry seven days of food at a time up the short, but very steep talus field to the meadows. However, we will fly in all necessary food with us to Glacier Lake.

Food Storage

There are several bear boxes located in Fairy Meadows. We will utilize these as well as appropriate hanging methods for all of our food and packs. This will prevent both larger animals and rodents from damaging any of our food or gear and will maintain solid Leave No Trace ethics. All food left at Glacier Lake will be stashed, hanging in a secure shed to prevent animals from accessing it. Additionally we will have five odor proof sacs to further prevent animals from accessing our food.

Food List

[Detailed_Food_List.docx](#) (126.5KB)

Detailed Food List

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Equipment List

Final_Equipment_List.docx (75.1KB)

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Are all expedition members familiar with LNT principles?

Yes

Plan for Minimizing Impacts

We will be very careful to follow Leave No Trace Principles at all times during our trip. As mentioned above, we will use both bear boxes and hangs to prevent animals from accessing our food and gear. There is a pit toilet located in Fairy Meadows that we will use while camping. At all other times, we will use Wag-Bags for our waste because this is a delicate area, and often visited by climbers. We will use a sump hole for food waste when appropriate, and will pack out all other trash, to avoid leaving anything behind in the Cirque. We will only camp on durable surfaces, and will take care to use established campsites so as not to further disturb the landscape. Most importantly, we will have a solid and well-thought-out plan in place for our trip as well as a detailed emergency plan. This preparation will minimize any unnecessary traces or impacts to the area, even in the event of an emergency.

Cultural Concerns

The Cirque of the Unclimbables is now a part of the Nahanni National Park Reserve in Canada. For this reason, all visitors staying for more than five nights must pay for an annual pass to the park. The cost per pass is \$147.20 per person. This money goes to further invest in the parks system.

The area comprising Nahanni National Park Reserve was long-occupied by the native Dene people. Evidence of prehistoric human use has been found at Yohin Lake and a few other sites within the park. If we encounter any artifacts or evidence of native peoples, we will follow the 'leave no trace' tenet of, "take only pictures, leave only footprints". We would not want to disturb or alter any history of the park. If we did see something, we would notify the National Park Reserve staff following our expedition as to the nature and location of the artifact. We want to tread lightly and respect this beautiful area which we have been allowed to enjoy.

IV. Risk Management

Hazard Mitigation Plan

Our primary risk management tool is solid preparation. We have already taken incredible care to anticipate as many details of this trip as possible. We will continue to do so in all aspects of our trip. There are a few risks that stand out to us as being particularly pertinent to this area: potential for rock fall, unexpected weather, animal encounters, and the remoteness of our location. We plan to deal with these risks in the following ways:

General Climbing Considerations

- All expedition members will wear helmets while scrambling and climbing, without exception.
- When moving across terrain that is comprised of talus or loose rock, we will stay close together in formation so that in the event of loose rock being knocked down, no other member of our team will be injured. We will also take care to travel very delicately and cautiously so as not to affect any other teams below us with rock fall. In the event that a rock is knocked down, we will loudly yell, "rock!".
- An ATC Guide in the locking guide mode will always be used for belaying climbers from above. This will ensure that should anything happen to the belayer, the other climbers will not lose the safety of a belay.
- All anchors will be built by equalizing three solid pieces of protection with an overhand or figure-8 on a bight.
- Climbers will all use the rope whenever possible as their primary life-line when clipping in to anchors. (This will further minimize any chance of dangerous factor two falls that can occur by falling on static life-lines, such as nylon or dyneema/spectra. When static materials must be used, we will use either nylon runners or PAS (personal anchor systems).)

Rock Rescue

-All expedition members have completed a Comprehensive Rock Rescue course and by the time of our expedition all will have completed an AMGA Single Pitch Instructor Course. We will practice all rescue skills prior to our expedition to ensure these skills are fresh.

-We will carry a Gri-Gri with each team in case any climber needs to be hauled for any reason.

-Each climber will bring the following on every climb in case we are out for longer than expected: extra layer, water, food, and headlamp.

Animals

-As discussed in the LNT section, we will use precautions with our food and other odorous items to prevent any unwanted interactions with animals. If we encounter any animals we will give them their space and move away to prevent any potentially dangerous encounters. We will also make noise while walking, especially in wooded areas, to notify animals of our presence.

Weather

-We will do our best to predict weather patterns while on our expedition. We will begin our climbing days early to ensure that we are not climbing if poor weather rolls in. When we climb LFT we will choose a good weather window and will be adamant about constantly analyzing the weather while climbing. Should we see storm clouds or any indications of poor weather coming we will stop, assess, and plan for a descent/bail.

-If at any point we feel that incoming weather may jeopardize our safety, we will move to safer ground immediately. We will have extra gear in case we need to bail off of a climb. All expedition members also have experience with safe lightning positions, in case this becomes necessary.

Remote Location

-The Cirque of the Unclimbables is in a very remote location that is difficult to access or leave without the help of a floatplane. This will be something in the back of our minds for every decision that we make. When making decisions regarding weather and whether to continue climbing we will always err on the side of caution. If we ever feel that we are out of our safe zone while climbing we will bail. We are trying to push ourselves as a climbing team on this expedition, but not to the point of putting ourselves in any unnecessary danger. We have a well thought out emergency evacuation plan but we are not trying to use it.

Evacuation Plan

In the case of an emergency, we have several viable options:

1. Warren LaFave is the Search and Rescue for the area. Luckily, he is the head of Kluane Airways, and our pilot for the floatplane flights. Kluane Airways keeps a satellite phone stashed in Fairy Meadows whenever they have clients in the area. This phone can be used to call Kluane Airways and Mr. LaFave in the event of an emergency. Mr. LaFave also pilots a helicopter which can be used in the event that a direct evacuation from Fairy Meadows is needed.

2. Should we determine that a more slow evacuation is necessitated, we could notify Mr. LaFave via the satellite phone and hike the 2 miles back to Glacier Lake where we could be picked up by a floatplane.

3. We will also be carrying a SPOT Device, should an emergency occur while we are on the wall. In this event, we are all trained in Rock Rescue, and will use these skills to get down to the Meadows safely. And although we are practiced in these skills, one can never be too prepared, and so we will practice these skills thoroughly before our trip as well.

4. Should we need assistance during the hike in either direction, we will have the SPOT device. We will also always be within roughly 2 miles of the Meadows, and the satellite phone.

5. The Cirque is becoming a destination climbing spot, and quickly gaining in popularity. We will most likely encounter other climbers in the cirque, who we may enlist for help should the need arise. However, we will be

thoroughly prepared to handle all situations alone.

Special Preparedness

Hannah Trim and Mareya Becker both have dietary restrictions that we adequately addressed when creating our detailed food list. Aside from that none of our expedition members have any other medical conditions that warrant special preparedness.

Emergency Resources

Nahanni National Park Reserve of Canada

10002 100 Street

P.O. Box 348

Fort Simpson, Northwest Territories

Canada

X0E 0N0

Phone:

867-695-7750

Fax:

867-695-2446

Email:

nahanni.info@pc.gc.ca

Kluane Airways Ltd*

Box 29008 OK Mission RPO

Kelowna, British Columbia

Canada, V1W 4A7

Phone: 250 - 860 - 4187 Fax: 250 - 860 - 8894

Summer phone number 1-867-969-2127

E-Mail: info@kluaneairways.com

*Warren LaFave of Kluane Airways serves as search and rescue for the Cirque of the Unclimbables. He has provided a satellite phone located in Fairy Meadows, and provides a helicopter service in the event of a required evacuation.

Watson Lake Community Hospital

Km 980 Alaska Highway

Watson Lake, YT Y0A 1C0

(867) 536-4444

Three doctors at: (867) 536-2565 - Parhelion Medical Services (private clinic)

Additionally, small medical centers located closer to Finlayson Lake and staffed with nurse practitioners 24

hours/day, and part-time doctors are located in:

Faro

Km 421 Robert Campbell Highway

(867) 994-4444

...And...

Carmacks

Km 352.4 North Klondike Highway

(867) 863-4444

Emergency Communication

Kluane Airways leaves a satellite phone in the Fairy Meadows for its customers to use in the event of emergency, or if they need to change flight times for any reason. We will be able to use this phone for the price per minute of calling, but we will not need to pay for the satellite service. Besides this satellite phone, we will carry one SPOT device, to be used in the case of emergency. This SPOT device will be helpful in case of an emergency while on a climb, or while far from the satellite phone in the Meadow.

V. Budget

Budget

[Detailed Budget.docx](#) (100.3KB)

Detailed Budget

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Transportation

\$3759.69

Food and Fuel

\$347.36

Maps and Books

\$0.00

Communication Device Rental

\$102.06

Permits/Fees

\$415.78

Gear Rentals

\$0.00

Total Funding Request

\$4500.00

Cost Minimization Measures

We have minimized our costs by choosing the cheapest way to get to the Cirque of the Unclimbables. We will be driving from Colorado Springs to Finlayson Lake instead of flying into Whitehorse and renting a car. We will be taking a floatplane and hiking to Fairy Meadows instead of taking a floatplane and helicopter to Fairy

Meadows. We will print out our topos from a free online resource instead of purchasing them. We will attempt to find all route information online and print it, but if we decide we want a guide book we will purchase it ourselves. We used what we learned on our expedition last year to come up with a more appropriate food list that manages to cover all dietary restrictions while still being reasonable both in price and weight. And lastly, we will be covering the cost of our own gas from Colorado Springs to just over the border in Canada as well any cost changes that occur from a change in the exchange rate between the US and Canada.

VI. Expedition Agreement

Expedition Agreement

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Expedition Itinerary

Cirque of the Unclimbables

August 14-15

Day 1, 2: Begin drive from Colorado Springs to Finlayson Lake
2,475 miles, Estimated 41 hours of driving time total

August 16

Day 3: Complete drive to Finlayson Lake
Check in with Kluane Airways, complete final preparations, etc.

August 17

Day 4: Fly to Glacier Lake
(Approximately 2,250 vertical feet, 1.5-2 miles in each direction)
Floatplane from Finlayson Lake to Glacier Lake (1-hour flight). Stash second week's worth of food in secure shed at the lake. Hike up talus to Fairy Meadows. Set up base camp in Fairy Meadows.

August 18

Day 5: Scouting Day
Spend the day sorting gear, and hiking around Fairy Meadows to get our bearings and scout the approaches to routes, etc. We can warm up to the type of climbing in this area by climbing any of several short sport climbs in Fairy Meadows. These climbs are located at the bottom of East Huey Spire, about a 20-minute walk from the Meadows, and on huge boulders in the Meadows proper.

August 19

Day 6: Lotus Flower Tower
(Approximately 2000 feet of elevation gain/1 mile hike)
Southeast Face, 5.11- V, 18 pitches
Climb first 10 pitches to bivy ledge. Haul bivy gear on static line behind us.
P1: 5.8 Corner
P2: 5.9 Corner
P3: 5.9, with one move of 5.10a
P4: 5.7 Face
P5-9: 5.7 Chimney
P10: 5.8 Varied

We plan to climb the first 10 pitches of the route this day, and then bivy on a huge ledge above pitch 10. The descent route is back down the same line as the climb, with the exception of a few rappels that descend just to the climber's left of the middle chimney pitches, to avoid getting ropes stuck. Depending on weather, we plan to haul bivy gear up

with us to this ledge. The ledge is large enough that we will be able to leave this gear at the ledge while we climb the upper pitches, as the descent route again follows the climbing route back to the base of the Tower.

August 20

Day 7: Lotus Flower Tower

(Approximately 2000 feet of elevation loss/1 mile hike)

Climb last 8 pitches to summit. Descend the route. Return to camp.

P11: 5.9+ Corner

P12-15: 5.9 Very well-protected face climbing on diorite knobs

P16: Crux pitch. The 3-foot roof is a 5.10d/11a crux that can be easily aided by pulling on gear to get through the move, making it 5.9. The rest of the pitch is sustained and well-protected 5.9 crack climbing.

P17: 5.8 Fists

P18: 5.8 Widening to easy off-width.

Descent: We will rappel the route, carefully avoiding getting ropes stuck on the knobby headwall pitches until we reach the bivy ledge. At this point, the rappel route shifts slightly onto the face to avoid the chimney. However, it is also possible, albeit slow, to rappel the chimney pitches, should it become necessary. We will then hike back down to our base camp in Fairy Meadows.

August 21

Day 8: Rest/Scouting Day/Sport Climbing

August 22

Day 9: East Huey Spire, West Ridge 5.9 III, 4 pitches

(Approximately 1000 feet elevation gain, ¼ mile hike in each direction)

Alpine start, hike to base of East Huey Spire roughly 1 hr, <1 mile. Hike around the left side of the tower from the Meadows, following an obvious grassy slope. The climb is via a gully between East Huey and Middle Huey Spires. The climb begins at the top of the gully, at the notch between these two spires. We may simul-climb or pitch out a few short sections of this approach if the conditions are wet or particularly mossy. The climb is 4 pitches long and descends the same route.

P1: 5.7/5.8, 60m

P2: 5.7/5.8, 60m

P3: 5.9, 60m

P4: Easy fifth class to the summit.

August 23

Day 10: Hike back to Glacier Lake to pick up second load of food. Return to Fairy Meadows.

(Approximately 2,250 vertical feet, 1.5-2 miles in each direction)

August 24

Day 11: Rest Day/Sport Climbing

August 25

Day 12: East Huey Spire, 4th class scramble to summit

(Approximately 1000 feet elevation gain, ¼ mile hike in each direction)

Follows a wandering, but easy 4th class scramble to the summit and descends same route.

August 26

Day 13: Rest Day/Sport Climbing

August 27

Day 14: Rest Day/Sport Climbing

August 28

Day 15: Hike back to Glacier Lake, wait for Float Plane

(Approximately 2,250 elevation loss, 1.5-2 miles)

Fly back to Finlayson Lake. Spend night at Inconnu Lodge, as included in price of flight with Kluane Airways.

August 29

Day 16: Begin driving back to Colorado Springs.

***Note:**

Days 5, 8, 11, 13, and 14 are built in as buffer days, as well as being rest days. Although we will have an expected 18 hours of light during this time of year, which will help during long climbing days, the weather can also be very unpredictable. These days are built in to allow us to move the itinerary up or back as the weather dictates. The Lotus Flower Tower will be our main objective of the trip.

Although this is the hardest route we plan to attempt, it will also be our first climb. This way, should we only encounter a short window of good weather, we will still be able to attempt our primary objective. Furthermore, on our expedition last year, we saved our hardest route for last, and felt that we were very fatigued by the time we began climbing it. The East Huey Spire West Ridge and 4th class scramble to the top of East Huey Spire are secondary objectives, which we will climb after the Lotus Flower Tower, if the weather allows.

Driving Directions and Maps:


Get directions

My places




Colorado Springs, CO

1. Head **northwest** on **E Pikes Peak Ave** toward **US-85 N/US-87 N**
59 ft
- 2. Take the 1st right onto **N Nevada Ave**
0.2 mi
- ↶ 3. Turn left onto **E Bijou St**
0.3 mi
- ↗ 4. Slight right onto **W Bijou St**
0.1 mi
- ⤴ 5. Slight right to merge onto **I-25 N**
Entering Wyoming
458 mi
6. Continue onto **US-87 N**
0.6 mi
- ⤴ 7. Merge onto **I-90 W**
Entering Montana
159 mi
- 8. Take exit **452** for **US-87 N/Interstate 90 Business N** toward **Lockwood/Roundup**
0.2 mi
- 9. Turn right onto **I-90BUS W/US-87 N**
1.2 mi
- 10. Turn right onto **US-87 N/Exposition Dr/ Old Highway 312**
Continue to follow **US-87 N/Old Highway 312**
0.8 mi


 **10. Turn right onto US-87 N/Exposition Dr/
Old Highway 312**

Continue to follow US-87 N/Old Highway 312


1.2 mi

 **11. Turn left onto E Airport Rd**


0.8 mi

 **12. At the traffic circle, take the 2nd exit
onto MT-3 N**


2.8 mi

 **13. Turn left onto MT-3 N/US-12 W**

43.5 mi


 **14. Turn right onto MT-3 N/US-191 N**

45.0 mi

 **15. Turn left onto MT-200 W/MT-3 N/US-87
N**

Continue to follow MT-200 W

39.2 mi

 **16. Keep right at the fork, follow signs for I-
15 N/US-89 N/State Route 200/Shelby and
merge onto I-15 N/US-89 N**

Continue to follow I-15 N

Entering Canada (Alberta)

89.9 mi




118 mi

17. Continue onto 1 St W/AB-4 N









Continue to follow AB-4 N

61.7 mi

 **18. Turn right onto 43 St S/AB-4 (signs for
43 Street N/AB-3)**

2.2 mi

18. Turn right onto **43 St S/AB-4** (signs for **43 Street N/AB-3**)
2.2 mi
19. Slight left onto **43 St S/AB-4/AB-512**
322 ft
20. Turn left onto **Crowsnest Hwy/AB-3 W**
14.6 mi
21. Continue onto **AB-23 N/AB-3A W** (signs for **Monarch/Vulcan**)
Continue to follow AB-23 N
6.7 mi
22. Turn left onto **AB-519 W** (signs for **Alberta 519 W/Granum**)
19.6 mi
23. Turn right onto **AB-2 N** (signs for **Claresholm/Calgary**)
71.0 mi
24. Keep right to continue on **Deerfoot Trail/AB-2 N**, follow signs for **Trans Canada Highway E/AB-1 E**
Continue to follow AB-2 N
193 mi
25. Take the **Anthony Henday Drive** exit on the left
1.2 mi
26. Merge onto **AB-216 W**
14.0 mi
27. Take exit **25** for **Alberta 16 W/ Yellowhead Trail W** toward **Jasper**

- 1.2 mi
-  **26. Merge onto AB-216 W**
- 14.0 mi
-  **27. Take exit 25 for Alberta 16 W/
Yellowhead Trail W toward Jasper**
- 0.8 mi
-  **28. Merge onto Yellowhead Hwy W/
Yellowhead Trail W**
Continue to follow Yellowhead Hwy W
- 22.8 mi
-  **29. Merge onto AB-43 N via the ramp to
Whitecourt/Grande Prairie/Peace River**
- 184 mi
-  **30. Turn right onto AB-49 N (signs for Peace
River)**
- 47.5 mi
-  **31. Turn left onto Spirit River Highway/AB-
49 W (signs for Alberta 49 W)** 
Continue to follow AB-49 W
- 118 mi
- 32. Continue onto Spirit River Highway/BC-
49 W**
Entering British Columbia
- 9.5 mi
-  **33. At the roundabout, take the 2nd exit onto
Alaska Ave/Hwy 2 heading to BC-97/Fort
Saint John/Prince George**
Continue to follow Alaska Ave
Entering Yukon Territory

118 mi

32. Continue onto Spirit River Highway/BC-49 W

Entering British Columbia

9.5 mi



33. At the roundabout, take the 2nd exit onto Alaska Ave/Hwy 2 heading to BC-97/Fort Saint John/Prince George

Continue to follow Alaska Ave

Entering Yukon Territory

601 mi



34. Turn right onto Robert Campbell Hwy/ YT-4 W (signs for Yukon Territory 4 W/ Ross River/Faro)

150 mi



Finlayson Lake

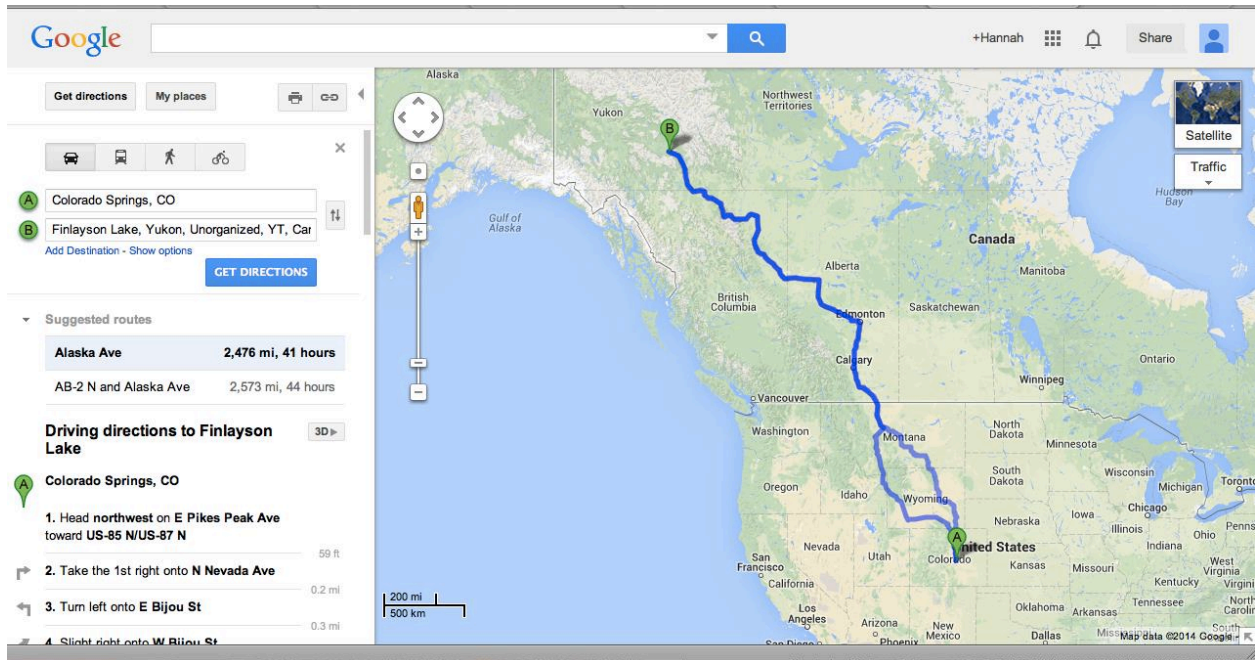
[Save to My Maps](#)

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.

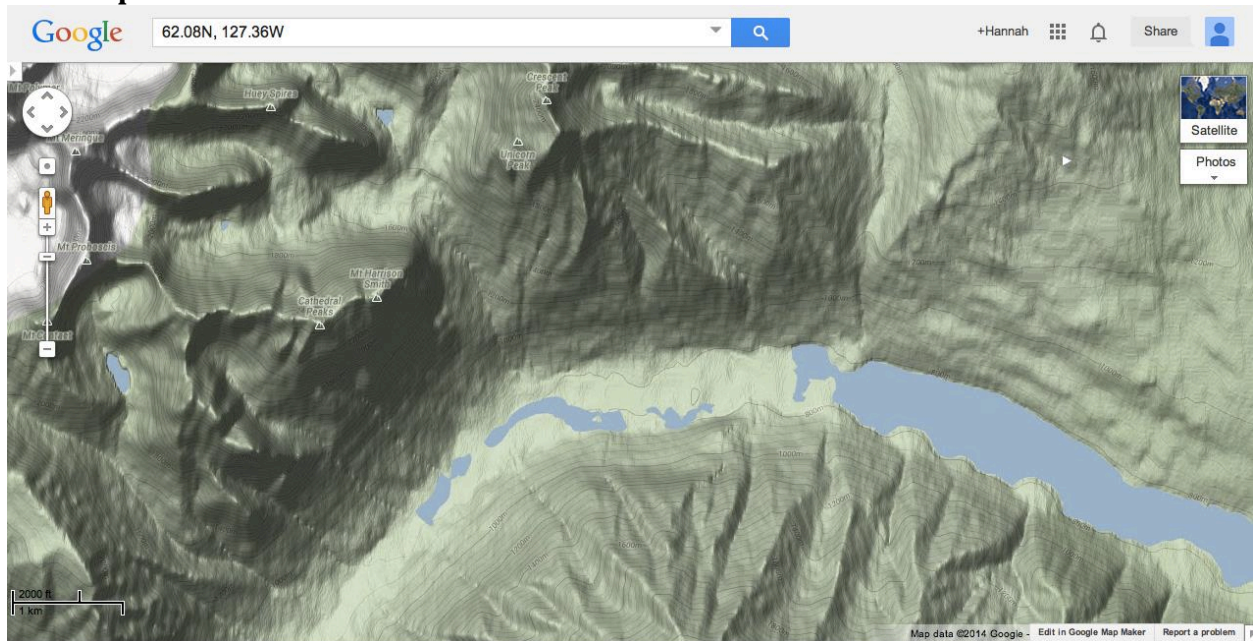
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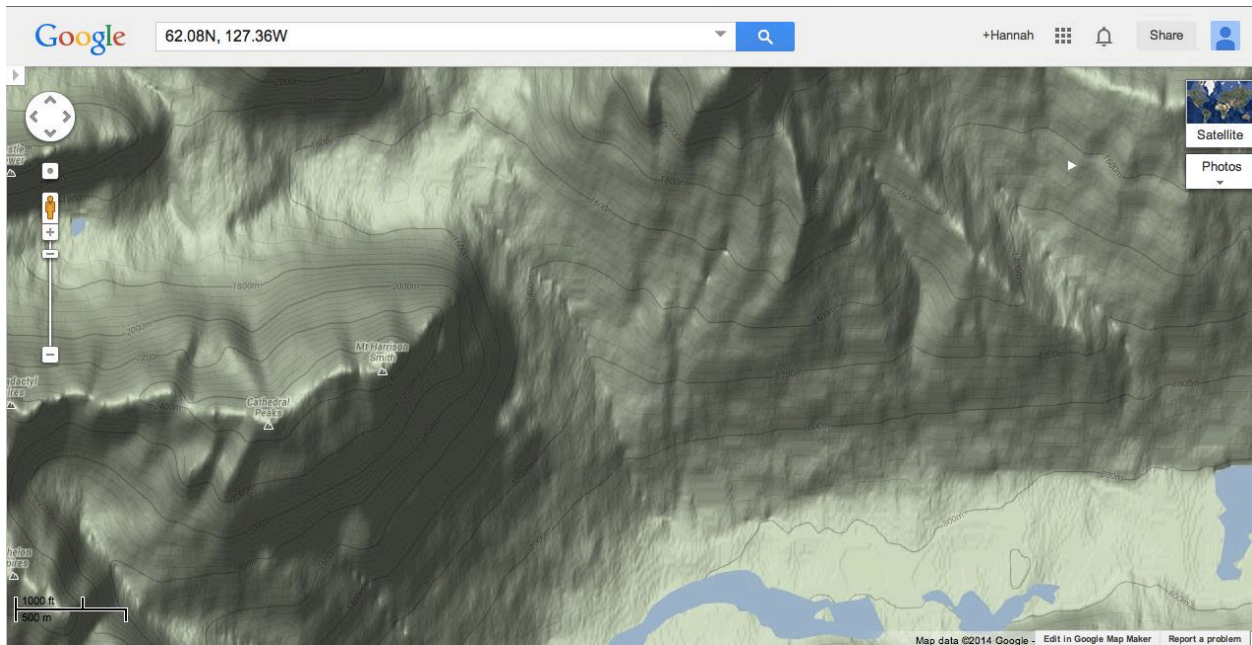
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Area Topos:



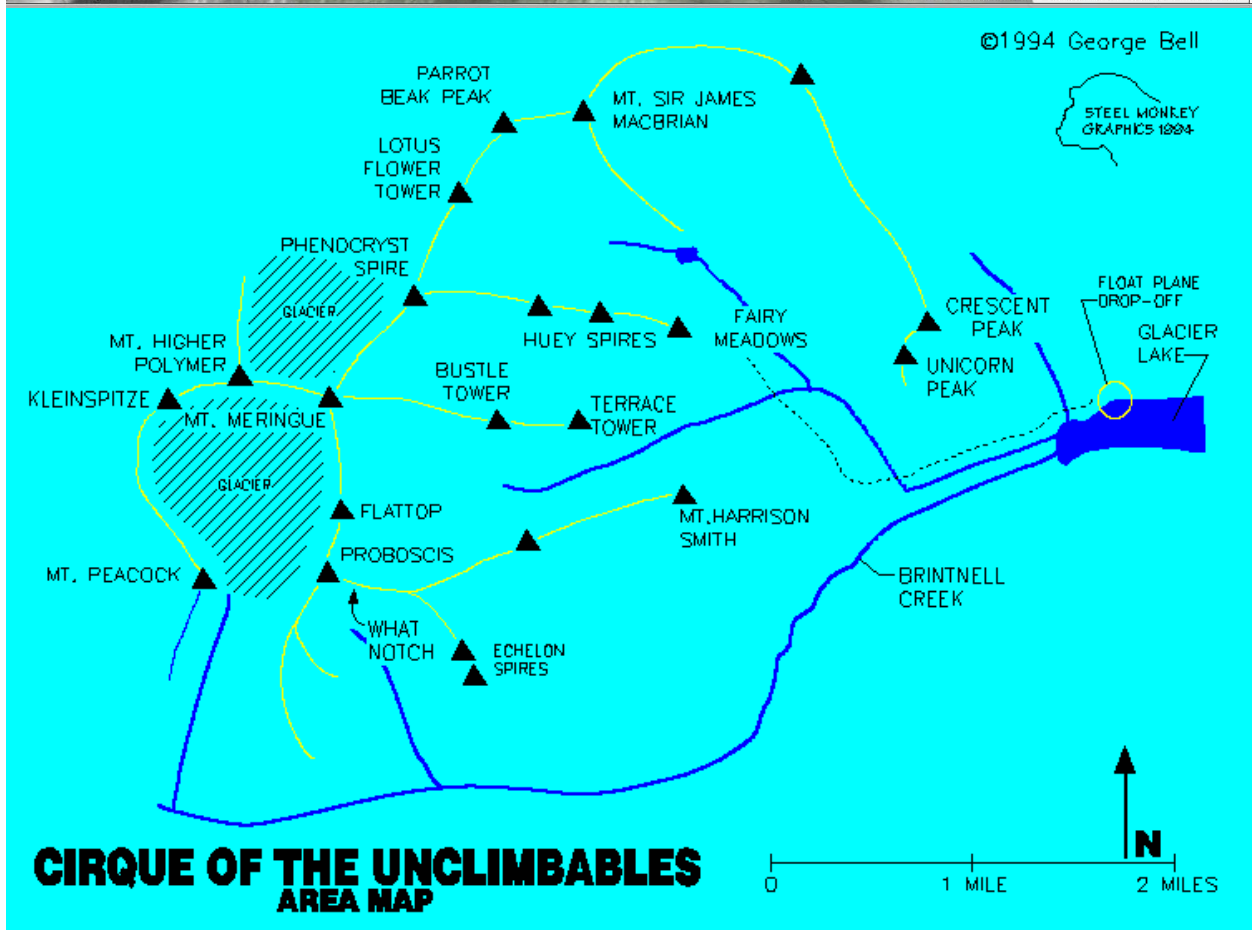
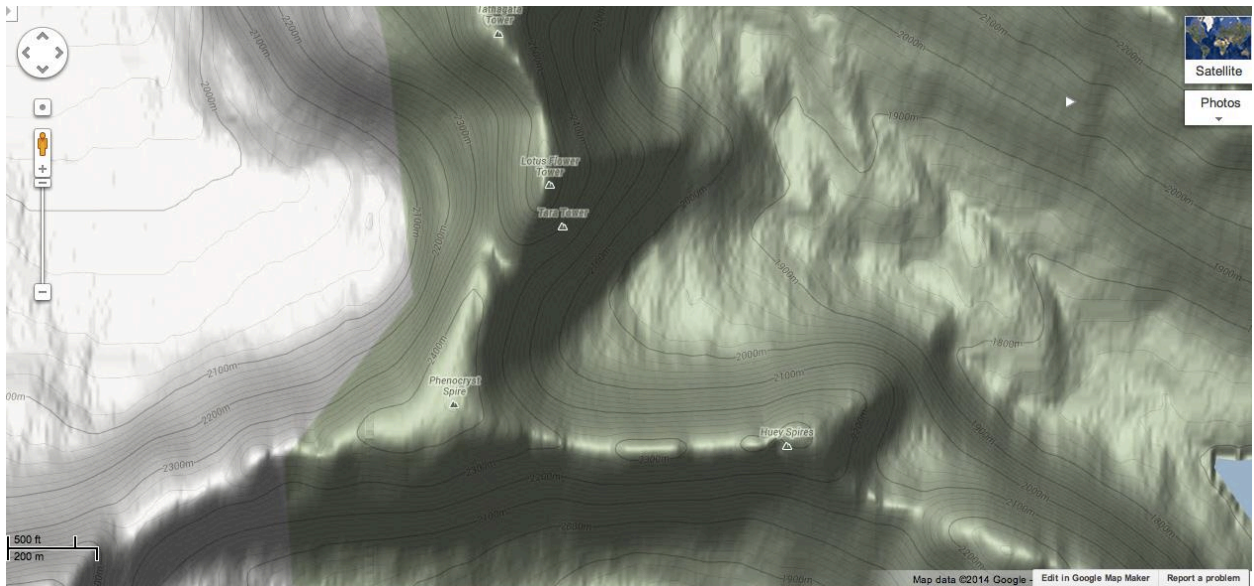
This map shows Glacier Lake on the right. We will hike along the valley floor until we reach the talus field (center left of photo).



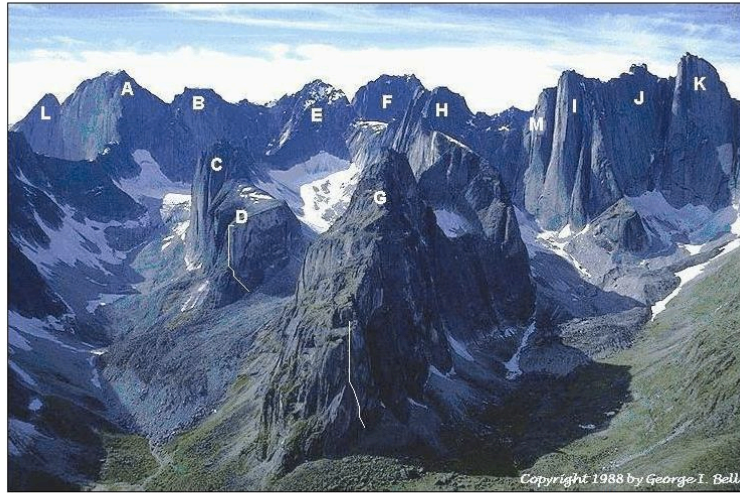
This map shows the steep hike up the talus field to Fairy Meadows.



These last two maps show the Cirque of the Unclimbables. The Lotus Flower is the main peak in the North-South ridgeline shown, next to Tara Tower.



Cirque Overview

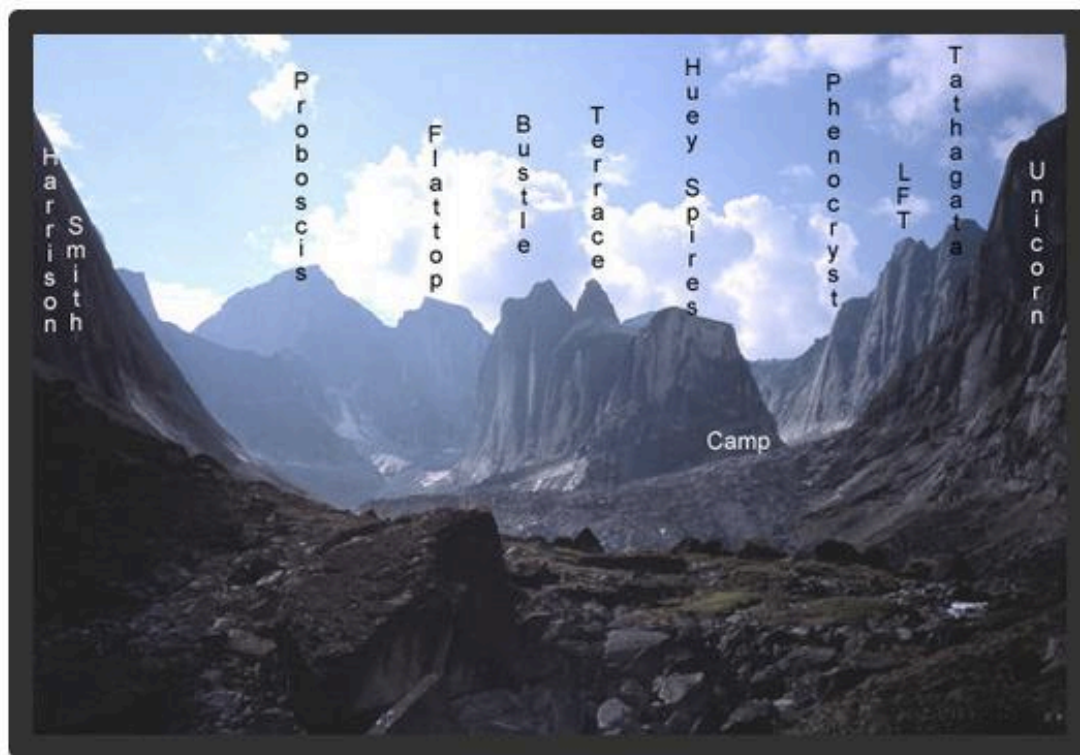


Looking west into the cirque from the summit of Unicorn Peak (August 1988)

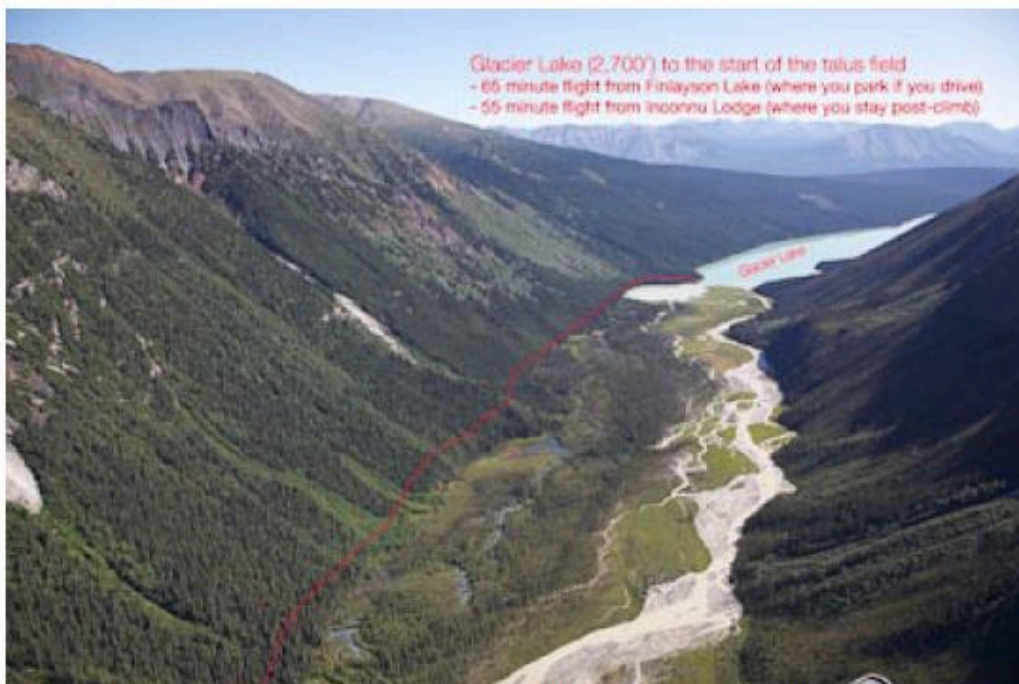
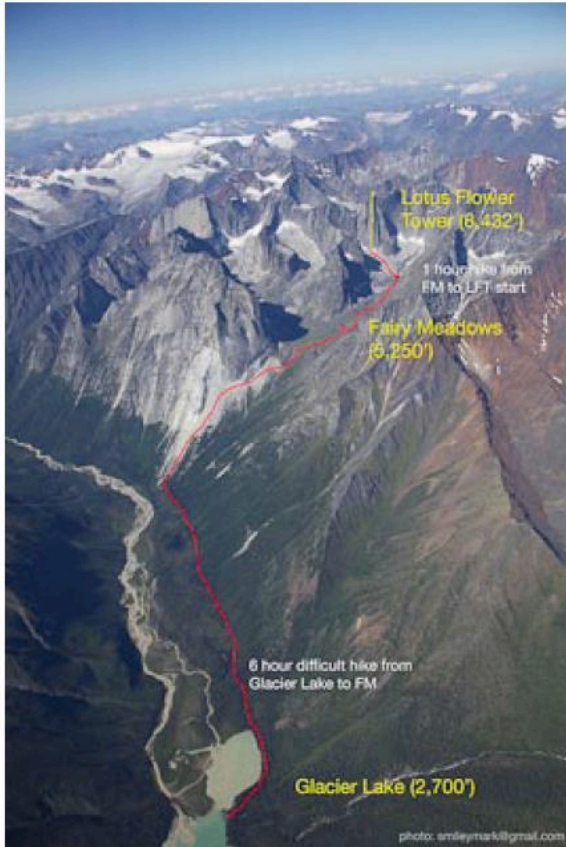
Legend: A - Proboscis, B - Flattop, C - Bustle Tower, D - Terrace Tower, E - Mt. Meringue, F - Higher Polymer (far away), G - East Huey Spire, H - Middle and West Huey and Phenocryst (all overlapping), I - Lotus Flower Tower, J - Tathagata, K - Parrot Beak Peak, L - Mount Contact, M - Tara Tower.

Route Topos and Beta:

Overview of Cirque of the Unclimbables



The names of the major peaks in the "[Cirque of the Unclimbables](#)". This is the first view you get of the Cirque on the hike in. The "LFT" is the Lotus Flower Tower.
(photo: A. Jones)



Where the float plane drops you off to hike to the Cirque. Looking back from the talus field. To hike from the lake to the edge of the photo is one hour.

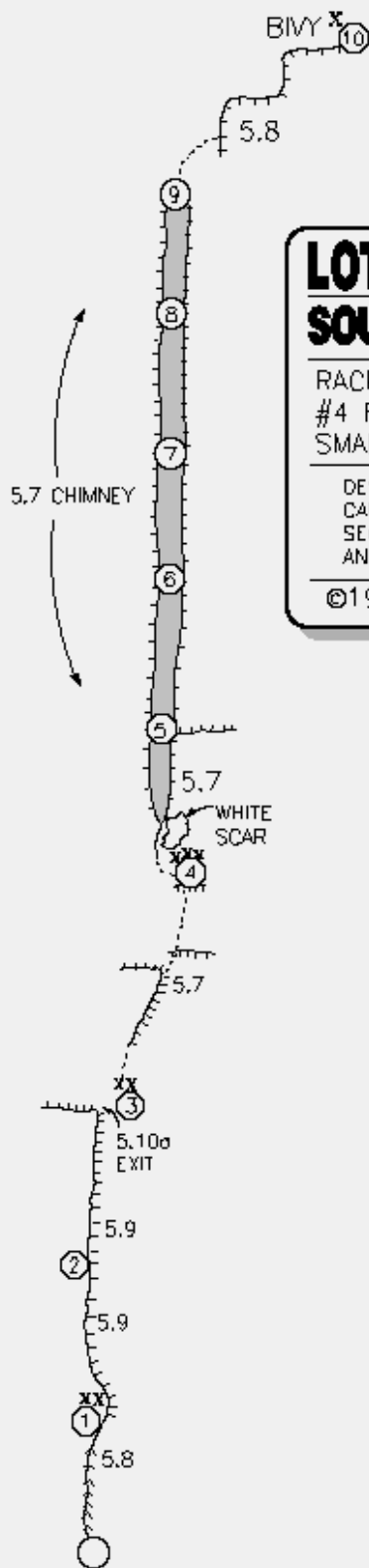
These are photos from Mark Smiley's Guide, showing the approach hike to Fairy Meadows.

Waiting for the Plane



Two tired climbers soaking up the only warmth we'd seen in 20 days in the [Cirque of the Unclimbables](#); unfortunately, it was the last day and we are waiting for the floatplane.

The ugly approach to the Cirque can be clearly seen. One hikes up the drainage until you reach the huge white talus slope at the base of Mount Harrison-Smith. This slope is white because the the rock just fell a few years prior to this photo (you can see clearly see the scar from where the rock came from). The approach takes you up this loose talus and into the Cirque. Just to give you a sense of scale - the rock face that you can see on Harrison Smith is 5000 feet high. (photo: A.Jones)



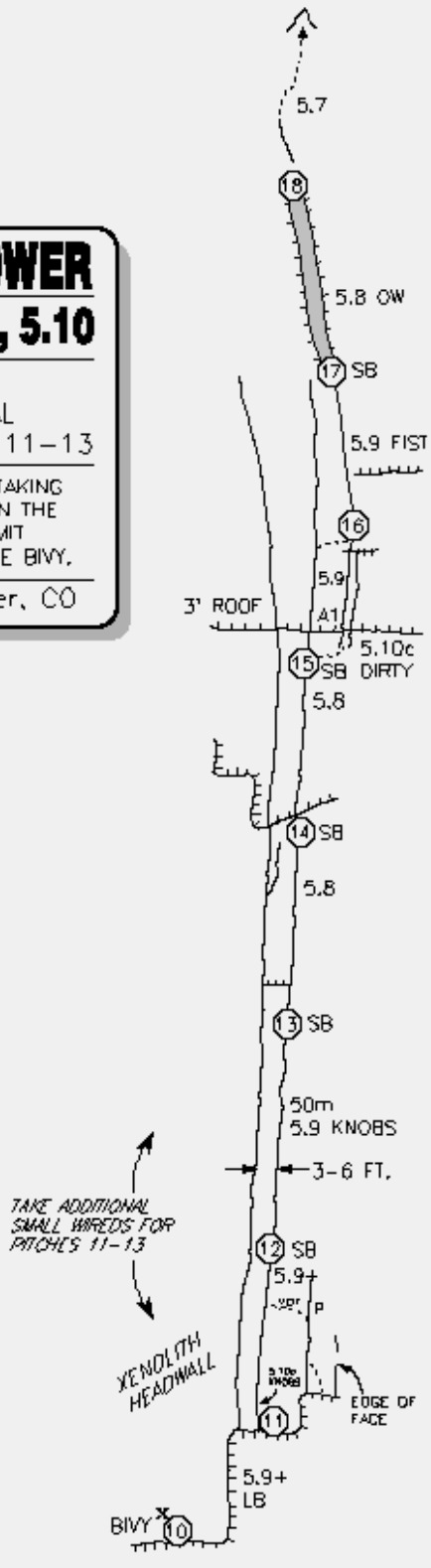
LOTUS FLOWER TOWER
SOUTHEAST FACE, V, 5.10

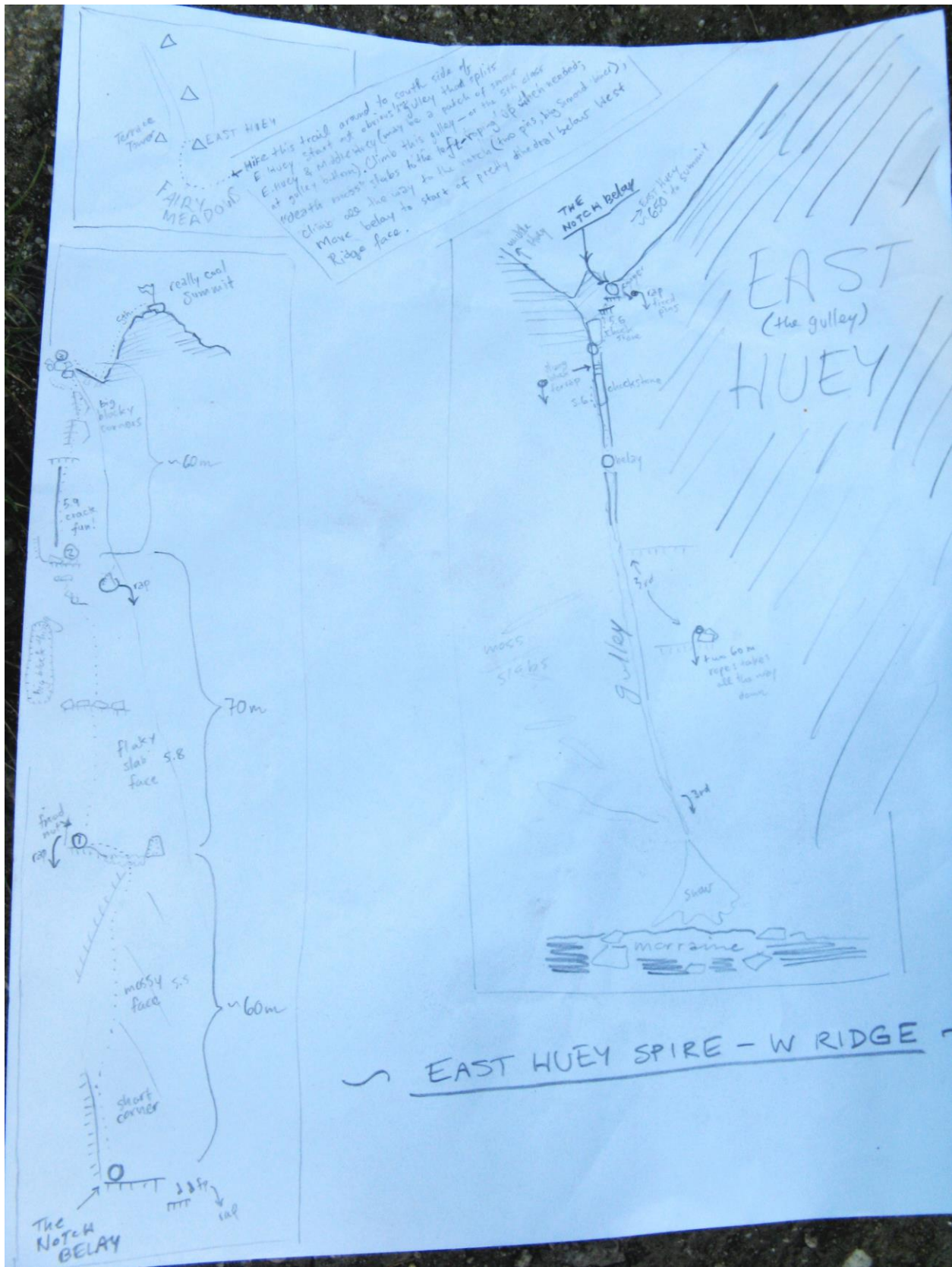
RACK: STANDARD RACK TO #4 FRIEND. TAKE ADDITIONAL SMALL WIRES FOR PITCHES 11-13

DESCENT: RAPPEL THE ROUTE, TAKING CARE NOT TO SNAG THE ROPE ON THE SECOND RAPPEL FROM THE SUMMIT AND THE SECOND RAP BELOW THE BIVY.

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STEEL MONKEY GRAPHICS 1996





Hike this trail around to south side of E Huey & immediately (may be a patch of snow) at gully bottom. Climb this gully - or the SW slope. Death must slabs to the left - or the SW slope. Move below to start of pearly dike trail below West Ridge face.

EAST (the gully) HUEY

EAST HUEY SPIRE - W RIDGE

References:

- www.mountainproject.com
- Logan Mountains Cirque of the Unclimbables “Unabridged” Guide to all Recorded Climbs, George Bell Version 2/2/13
- www.KluaneAirways.com
- Mark Smiley, through personal email and pdf guide entitled, ‘The Cirque, Cirque of the Unclimbables, Northwest Territories, Canada’, created September 4, 2011
- www.summitpost.org
- www.google.com/maps
- earth.google.com
- www.pc.gc.ca National Parks of Canada
- spectacularnwt.com, Spectacular Northwest Territories

Detailed Food List

We designed the following food list so as to accommodate the dietary restrictions of our expedition members while simultaneously accounting for high caloric and protein needs. We have included many foods high in protein and calories and we have tried to do so in the lightest way possible. Since we will be carrying climbing gear as well as normal backpacking gear, we felt that this was especially necessary. Please note that the most expensive item, Bobo's Oat Bars, are important in meeting Hannah Trim and Mareya Becker's needs, who are both gluten free and lactose intolerant. They have found this bar, although expensive, to be the best at meeting their needs and filling the caloric and protein gap created by being unable to eat gluten and dairy. We also did our best to avoid other expensive gluten free items, aside from these bars, by using mostly corn tortillas, rice based products, and quinoa, which are less expensive than gluten free pastas, breads, and other items.

Detailed Food List: 3 People for 14 Days

We allotted 14 days of food instead of 12 because there is a chance we will be in the cirque longer than anticipated if we encounter bad weather around the time we are supposed to be picked up by floatplane. Additionally, for a significant portion of our drive in Canada we will be in remote areas where grocery stores are sparse so by bringing a little extra food we will be able to eat when we are driving through these areas.

Meal:	PPPPD:	Total Poundage
Breakfast	0.171	7.191
Lunch/Snacks	0.668	28.05
Dinner	0.236	9.902
Dessert	0.055	2.313
Total	1.13	47.456

Total Cost: \$347.36

Cost PP: \$115.79

Cost PPPD: \$8.27

	Purchasing Quantity	Quantity in lbs	USD Price/lb	USD Price/Item
Breakfast				
Oatmeal	15 Cups	2.646	1.55	4.10
Brown Sugar	2 Cups	0.847	1	0.85
Raisins	3.75 Cups	1.36	3.39	4.61
Bobo's GF Lemon Poppyseed Bars	12 3oz bars	2.25	16.71	37.60
Tea	7 2g tea bags	0.03	54.43	1.63
Instant Coffee	8 packets	0.058	137.07	7.95
Lunch/Snacks				

Dried Mango	1 30 oz bags	1.875	8.53	15.99
Bobo's Oat Bars Strawberry/Apricot	24 3 oz bars	4.5	12.8	57.60
Clif Bars	12 2.4oz bars	1.8	10	18.00
Clif Ropes	18 20g ropes	0.794	16.31	12.95
Chocolate Chips	2 10oz bags	1.25	5.9	7.38
Craisins	1 16oz bag	1	4.49	4.49
Dried Blueberries	1 20 oz bag	1.25	7.19	8.99
Pecans	1 2lb bag	2	6.49	12.98
Apple Chips	1 14oz bag	0.875	7.53	6.59
Corn Tortillas	108 tortillas	6.08	0.69	4.20
Peanut Butter	3 16oz jars	3	4.5	13.50
Jelly	1 22oz bottle	1.375	2.32	3.19
Honey	1 12oz bottle	0.75	4.39	3.29
Jerky	2 8oz packages	1	21.98	21.98
Cheese	1 .5lb block	0.5	3	1.50
Dinner				
Rice Noodles	2 6.75oz packs	0.844	6.82	5.76
GF Pasta	1 14oz pack	0.875	4.56	3.99
Rice	3 Cups	0.583	2.86	1.67
Refried Beans	3 Cups	1.5	5.49	8.24
Quinoa	4.5 Cups	1.8	3.25	5.85
Pesto Packets	3 .53oz packs	0.1	47.7	4.77
Dehydrated Split Pea Soup	2.25 Cups	0.7	5.28	3.70
Salami	2 16oz logs	2	8.99	17.98
Summer Sausage	1 16oz sausage	1	5.99	5.99
Dehydrated Veggies	.5 lb	0.5	18.5	9.25
Dessert				
Chocolate Bars	7 3oz bars	1.313	16	21.01
Hazelnut Butter	1 16oz jar	1	9.8	9.8
We will provide the following for ourselves:				
olive oil, salt, pepper, garlic powder, gf soy sauce				

Breakdown of How Food Will Be Utilized for Meals

Breakfast

- 10 days= Oatmeal with Brown Sugar and Raisins.
- *1/2 C Oatmeal, 2TBS Brown Sugar, 1/8 C Raisins PPPD
- 4 days= Bobo's Oat Bars (for alpine starts), 1 each
- Tea and Coffee for Lauren and Hannah every other day

Lunch/Snacks

- 2 Corn Tortillas with Peanut Butter and Jelly PPPD
- Dried Mango, Homemade Gorp (chocolate chips, craisins, dried blueberries, pecans, apple chips) everyday
- 12 Bars per person
- 6 Clif Ropes per person
- ~5oz jerky per person
- Cheese for Lauren-.5 lb

Dinner

- 3 Nights= Rice Noodles (2 packages for 3 nights) with Thai Sauce (Peanut Butter, Brown Sugar, Soy Sauce)
- 1 Night= GF Noodles with Thai Sauce
- 4 Nights= Rice and Beans with Corn Tortillas
- * 3/4 C Rice and Beans per night +2 Corn Tortillas PP
- 3 nights= Quinoa and Pesto Packets, 3/4 C Quinoa+ 1 Packet Pesto per night
- 3 nights=Quinoa and Split Pea Soup, 3/4 C Quinoa + 3/4 C Soup Mix per night
- Add ins: 2 Salami Logs and 1 Summer Sausage and Dried Vegetables

Dessert:

- 1/2 chocolate bar per night
- 1 jar hazelnut butter for the rainy days!

Detailed Gear List

Backpacking: Individual Gear

Upper Layers

- 1 Sports Bra
- 1-2 Synthetic T-shirts
- 1 Base Layer (Long Underwear Top)
- 1 Light Fleece Layer
- 1 Heavier Fleece Layer
- 1 Insulated Jacket (Puffy)
- 1 Rain Coat (Goretex)

Lower Layers

- 3 Pairs Synthetic Underwear
- 1 Base Layer (Long Underwear Bottoms)
- 1 Pair of Fleece or Insulated pants
- 1 Pair of Rain Pants
- 1 Pair of Nylon Shorts or Light Pants

Footwear

- 3-5 Pairs of Wool Hiking Socks
- 1 Pair of Heavy Duty Hiking Boots
- 1 Pair of Camp Shoes (closed-toe sneakers or cros)
- 1 Pair Gaiters

Miscellaneous Clothing

- 1 Sun Hat or Baseball Cap
- 1 Fleece or Wool Hat
- 1 Pair of Fleece or Wool Gloves
- 1 Pair of Waterproof Gloves

Sleeping Gear

- Sleeping Bag (Rating of 20 degrees or lower)
- Sleeping Pad
- Sleeping Bag Compression Stuff Sack
- Bivy Sack

Packs and Bags

- Internal Frame Pack (Volume of 5,000 to 7,000 cubic inches)
- Small Stuff Sacks (optional)
- 1-2 Waterproof Bag Liners (trash compactor bags) OR Rain Cover for Backpack

Miscellaneous Items

- Passport
- 1-2 Bandanas

- 1 Waterproof Watch with Alarm
- 1 Headlamp (with extra batteries)
- 1 Pair of Sunglasses
- 1 Compass with Mirror
- 1 Whistle
- 1 Camping Bowl
- 1 Plastic Spoon
- 1 Insulated Mug
- 1 Pocket Knife
- 1-2 Lighters
- 2-3 1-Liter Water Bottles
- SPF Lip Balm
- Sunscreen
- Bug Spray
- Hand Sanitizer
- Tooth Brush/ Toothpaste

Backpacking: Group Gear

General Group Gear:

- 1 Tent (one three person) with ground tarp and associated rain fly
- 2 MSR stoves
- Whisperlite Repair Kit (We are familiar with stove repair)
- Fuel Bottles with White Gas- 4 large bottles
- 1 Set of Topographical Maps (#95L4 for Glacier Lake / Cirque of the Unclimbables, #95L3 for Britnell Creek / South Nahanni River), obtained from Canada Map Service
- Printed climbing routes topos and beta
- 1 Cooking pot
- 1 Fry pan
- Cooking Utensils
- Two small day packs
- Tent Repair Kit
- Duct Tape
- P-Cord
- Plastic Bags/ Garbage Bags
- First-aid Kit (see details below)
- 5 Odor Proof Sacks
- 1 Can of Bear Spray
- 2 Rolls Toilet Paper
- 1 Trowel
- 6 Wag Bags (2 per person, for use when we are climbing or hiking. There is a pit toilet in Fairy Meadows)
- Water purification system: three bottles of Iodine and one packet of chlorine tablets (for variety)
- 1 SPOT device

2 small digital cameras

First Aid Kit Contents:

General Supplies

Nitrile Gloves: 5 pairs
12 cc irrigation syringe: 1
Trauma shears: 1
Tweezers: 1
Biohazard stickers for bags: 3
Pencil: 2
SOAP notes: 5
Face Shield: 2
Safety Pins: 6
WFR Book: 1
Ziplock bag: 4
Emergency Blanket: 2

Drugs/Meds

Ibuprofen: 60 pills
Diphenhydramine: 30 pills
Pepto Bismol: 30 pills
Acetaminophen: 30 pills
Tincture of Benzoin: 5 ampules
Iodine towelettes: 10
Triple antibiotic ointment: 1 tube

Wound Care/Bandaging

Wet Prep Soap Sponges: 4
Antiseptic towelettes: 25
3'' conforming gauze roll: 4
3 x 3'' sterile gauze pads: 5
2 x 3'' non-adherent dressings: 3
3 x 4'' sterile gauze pads: 5
Trauma Pads: 4
Transparent Dressing: 4
Closure strips ("steri-strips"): 3 sets of 4+ strips
Ace Elastic bandage: 3
Triangular bandage: 5
2nd Skin 2 x 3 pad: 6
Band-aids: 25
Butterfly bandages: 10
Sterile Cotton Tipped Applicator: 10
1'' tape roll: 1
1.5'' Athletic tape roll: 1
Moleskin 2 x 3: 6

Climbing: Group Gear

1 of the following rack:

Doubles of Camelot C4 #0.3-4, with triples in Camelot C4 #0.4-1
Singles of Camelot C3 #00-2
1 Set of Stoppers #4-13
2 Pieces of 20 ft 7mm Cordelette (for anchor building)
6 Locking Carabiners
4 Quickdraws
6 Alpine Draws (nylon slings each with 2 non-locking carabiners)
5 Single-length slings (mix of nylon and dyneema slings)
2 Double-length nylon slings
1 Mammut Nordwand 9.3mm 70m Dry Half Rope
1 Sterling 8.8mm 70m Dry Half Rope
1 Sterling 9.8mm 70m Dry Rope
1 9mm 60m Static Line
1 Nut Tool
2 Rolls of Athletic Tape
1 Gri Gri with Locking Carabiner
1 Haul Bag
1 Mini Traxion
1 Ascender

Extra Gear (to use / potentially leave for rappelling purposes)

1 Set of Stoppers #4-13
Hexes 4,5,8,9
6 Rappel Rings
50 ft Webbing
30 ft of 7mm Cordelette

Climbing: Individual Gear

Each person will have the following:

1 ATC Guide
1 Locking Carabiner for Belay Device
1 Helmet
1 Pair of Climbing Shoes
1 Harness
1 Chalk Bag
1 Cordelette for anchors (~16-20ft, 6-7mm)
Prussik cord for use as a third hand when rappeling
Personal Rescue Items: Double length runner, either a prussik cord or a tiblock, small knife, and an extra locking carabiner

Detailed Budget: Cirque of the Unclimbables

Category	Description	Cost in CDN \$	Cost in US \$ **
Transportation			
Gas from Lethbridge, AB, Canada to Finlayson Lake, YT, Canada and back (we are paying for our own gas from Colorado Springs to Lethbridge)	1,429 miles from Lethbridge to Finlayson Lake *2 (to make roundtrip) = 2,858 miles. Subaru gets 25 mpg. 2,858 miles/25 mpg=114.32 gallons. 3/8 of gas will be purchased in Alberta, 1/2 in British Columbia and 1/8 in the Northwest Territories. Average gas price in AB is 1.086 CAD/liter, in BC it is 1.283 CAD/liter, and in Northwest Territories it is 1.379 CAD/liter. (taken from GasBuddy.com) If we weight these prices as described above, the average gas price we will encounter in Canada is 1.221 CAD/liter. Which is 4.62 CAD/gallon, which is 4.35 USD/gallon. 114.32 gallons*4.35 USD/gallon=\$497.29	\$528.17	\$497.29
Floatplane from Finlayson Lake to Glacier Lake (roundtrip)	Price taken off of Kluane Airways Website	\$3,465	\$3,262.40
Food			
Expedition Food	See detailed food list	N/A	\$347.36
Maps/Books	N/A, we will use free topo website and other online resources		
Communication Device Rental			
Spot Device	21 day rental from lowergear.com= \$79.00+\$23.06 shipping (\$11.53 both ways)	N/A	\$102.06

Permits/Fees			
Nahanni National Park Annual Pass	Each expedition member must purchase an annual pass to Nahanni National Park because we will be staying longer than 5 nights. Cost is \$147.20 per person (CDN) *3= \$441.60 CDN.	\$441.60	\$415.78
Gear Rentals	N/A We are not renting any gear		
Total Cost			\$4,624.89
Total Funding Requested	(We will cover the extra \$124.89 ourselves)		\$4,500.00 or \$1500 per person

** Current Exchange Rate is \$1 US=\$1.06 CDN