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Alaskan Caver, Volume 7, No. 6, November-December 1982

Richard A. Hall

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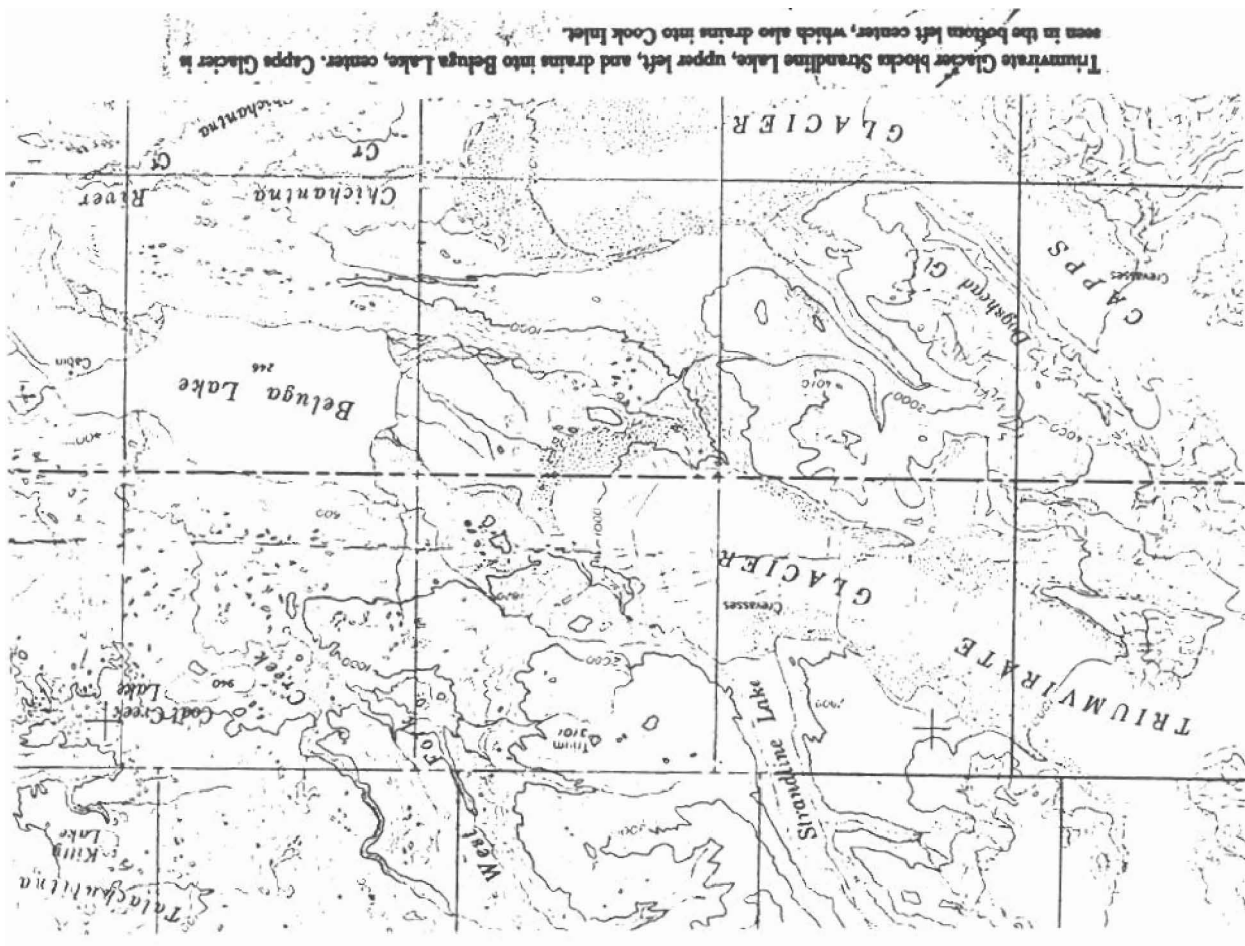
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The Alaskan Caver

Volume 7 Number 6

November - December 1982



Portion of Tyonek Quadrangle, Alaska

The ALASKAN CAVER is a periodic publication of the Glacier Grotto of the National Speleological Society. Subscriptions are free to members. Membership dues are \$5 per annum (add \$3 for overseas members wishing airmail instead of surface mail). Dues can be sent to Elisabeth Hall at 4607 Klondike Crt., Anchorage, AK 99504. Copyright 1982 by Glacier Grotto. Material not copyrighted by individuals or other groups may be copied by other NSS publications provided credit is given to the ALASKAN CAVER and a copy of such publication is sent to the editor.

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At Large	David Moll		
Editor	Richard Hall	H333-2090	W265-3377

1982 GLACIER GROTTO FINANCIAL REPORT

	1982 BALANCE SHEET	1983 ANTICIPATED BUDGET
<u>Annual Income & Expenses</u>		
Income		
Membership Dues & Donations	186.00	200.00
TOTAL INCOME	186.00	200.00
Expenses		
Alaskan Caver Printing	40.00 ¹	240.00
Postage	00.00 ²	84.00
Other Expenses	00.00	20.00
TOTAL EXPENSES	40.00	344.00
Summary		
Total Income	186.00	200.00
less Total Expenses	40.00	344.00
NET OPERATING GAIN	146.00	-144.00
End of Year Assets		
Checking Balance	\$279.47	
Cash & Checks on Hand	46.00	
TOTAL ASSETS	\$325.47	
<u>Year End Balance</u>		
End of Year Liabilities		
Unpaid bills for printing Alaskan Caver	40.00	
Net Worth		
Beginning of Year Balance	139.47	285.47
1982 Operating Gain	146.00	-144.00
END OF YEAR NET WORTH	285.47	141.47

¹ All but one issue were printed at no cost to the Grotto in 1982.

² Postage was donated in 1982.

GLACIER GROTTO MEMBERS AND FRIENDS

The following list includes full members (those who maintain a current membership with the NSS (designated "*" as well as the Glacier Grotto (designated "**")), associate members (Glacier Grotto members who are not current NSS members), and friends including ex-members and others who have shown an interest in our activities. Full members who wish their official representation to be with another Grotto are underscored. If you know anyone who would like to become a member or to correct any of the listings please contact Jay Rockwell or Rich Hall.

MEMBERSHIP	NAME	NSS#	ADDRESS	HOME PHONE	BUS. PHONE
	Albert, Dave		2601 Commercial Dr., Anchorage, AK 99504		279-3413
*	Allred, Kevin	16730	General Delivery, Haines, AK 99827		
	Allred, Carlene	16389			
*	Anderson, Warren	15287	Box 517, Wilson, NY 83014	248-4811	
**	Bacon, William W. III		Box 6326, Anchorage, AK 99502	415-443-2209	
**	Bastasz, Dr. Robert & Kathy	13696	5621 Charlotte Way #5, Livermore, CA 94550		265-6915
*	Bower, Lee Ann		400 W 76th Ave., Apt. 314, Anchorage, AK 99502		
*	Bowers, Wm. Harvey & Sandy	12088	Box 1069, Wasilla, AK 99687	376-2294	
	Bowersox, Rick L.	19885	8636 Vernon St. Anchorage, AK 99502	344-3882	279-7501
*	Brockman, Ross		Wiseman via Bettles, AK 99726	via Northwind	
	Buchanan, Douglas		3641 Sandvik, Fairbanks, AK 99701		688-3572
	Cannisa, Ray		Box 110, Eagle River, AK 99577		
**	Collins, Mark	22639	8310 Nordale St. Anchorage, AK 99502		
+	Cunard, Jeffrey	20002	P O Box 82416 College, AK 99708		
+	Davis, Daniel	22132	General Delivery, Delta Junction, AK 99737		
**	Davis, Debra	14918	E 12027 Mansfield, Spokane, WA 99206		
**	Debee, Adrian	14919			
+	Dehee, Aleta	9475	AK Div. Geol. & Geophys. Surveys, P O Box 8007	445-7611	479-7147
	Decker, John E.		College, AK 99708		
	Dunaway, Sam	4837	7301 Chad St. Anchorage, AK 99502		
*	Dunec, JoAnne L.		1507 Atkinson, Anchorage, AK 99504	337-6684	272-3016
+	Duncan, Philip C.	13202	3815 Belvoir, Huntsville, AL 35805		
+	Duncan, Merrile	14833			
**	Evans, Charles G.		123 E 11th Ave, Anchorage, AK 99501	277-2396	274-8032
**	Fire!	16538	2022 Francisco St., Berkely, CA 94709	802-287-4088	
**	Fitzgerald, Brian T.	19364	1109 E Genesee St Apt 1, Syracuse, NY 13210		
**	Fitzgerald, Michele M.	20370			
*	Flood, Dan		3740 Boniface Pkwy #2, Anchorage, AK 99504	333-9099	
	Francis, Dr. Karl E.	2787	P O Box 993, Eagle River, AK 99577	688-2661	
*	Godbey, William				
**	Godbey, Will E.	21865	P O Box 141, Skagway, AK 99840		
+	Gordon, Dennis C.	14423	P O Box 621, Petersburg, AK 99833		
**	Hall, Richard A.	16566	4607 Klondike Crt., Anchorage, AK 99504		
**	Hall, Elisabeth S.	16567		333-2090	265-3377, 9377
**	Hall, Matthew T.				
+	Halliday, Dr. William R.	812HF	1117 36th Ave. E., Seattle, WA 98112	206-324-7474	
**	Hallinan, Dr. Thomas J.	6329	Wolverine La, SR Box 20805, Fairbanks, AK 99701	479-6064	479-7454
**	Hallinan, Nancy C.	6367			
	Halsey, Gary W.				
	Hankins, Helen	6631	2703 W. 31st St., Anchorage, AK 99503		276-4216
	Head, Joseph	13561	Teshlar Drive, Anchorage, AK 99507	349-3026	267-1271
*	Helms, Mary		SR Box 20096, Fairbanks, AK 99701	479-4413	
	Hornberger, Joy		3307 Boniface Pkwy, Anchorage, AK 99504	337-8767	248-2250
**	Huff, Charles H.	13956	SR Box 12506, Chugiak, AK 99567		
**	Huff, Alice	13966	804 "P" St. #3, Anchorage, AK 99501	279-4729	263-1107
	Izumi, Masataka				
	Jacobs, Ronald C.		4-11-12 Nishitomioka, Nara 631, Japan		264-4208
	Jacobs, Judy L.		523 O Shetna Cir., Eagle River, AK 99577	349-8774	277-5693
	Jaeger, Ronald A.				456-1018
*	Jansen, John F.		Box 2095, Fairbanks, AK 99707		694-2963
*	Jansen, Barbara	4040	Box 395, Eagle River, AK 99577		276-4441

** Jenkins, Sydney	18193	PO Box 5541, Greensboro, NC 27403	
** Jenkins, M. Stanton	19447		
* Johnson, Michael S.		Box 906, Cordova, AK 99574	
Kalberg, Laurie		3605 Arctic Blvd, Ste 1204, Anchorage, AK 99507 274-3980	
Klingendrath, Toni		via Al Ciste None 37/36, Trieste, Italy	
Kllinger, Col. David M.	10583	PO Box 537 Leavenworth, WA 98826	
+ Klinger, Bryan	13052		
Klinger, Mark D.	11298	Fairbanks	
Leicht, Dr. Ray		SRA Box 1735-K, Anchorage, AK 99507	349-1314
Lewis, Stephen K.	16963	2508 Sprucewood St, Anchorage, AK 99504	272-5703
** Lukshin, Alexander A. & Tracy	18875	712 12th St, Juneau, AK 99801	586-3369
* Lukshin, Steven			263-4512
* Lund, Kirsten		P.O. Box 4137, Modesto, CA 95352	586-3133
		1426 Orca St., Anchorage, AK 99501	
* Marden, Johnnathen		1430 Colombine, Anchorage, AK 99504	274-1369
Marsh, Mike		505 E 11th, Apt 3, Anchorage, AK 99501	272-6639
* Mauser, Mike		6631 Teshler Dr, Anchorage, AK 99507	271-4794
McFarland, J. Patrick		1200 Dimond Blvd 1478, Anchorage, AK 99502	349-2219
* Medlock, Raymond C.	10316	SR Box 20207, Fairbanks, AK 99701	
* Metzger, Curvin		PO Box 738, Anchorage, AK 99510	333-2957
** Moll, David M.	10106	PO Box 82044, College, AK 99708	271-4011
** Moll, Virginia J.	12996		456-4982
** Morton, Bruce R.	3202L	SR 206, Eagle River, AK 99577	694-9112
Nelson, Edward		Box 814, Kodiak AK 99615	486-3672
Newby, Steven E.		SRA 6318A1, Palmer, AK 99645	376-6851
** Nichols, Jim		107 Hickory, Fairbanks, AK 99701	752-5302
* Oshima, Dr. George		Professor of Geography, Kwansel Gakuin Univ., Exploration Club Caving Team, Nishinomiya-Shi, Hyogo, Japan T662	479-0810
		Box 547, APO New York 09057	075-781-8054 Nishinomiya
+ Pease, Majr. C.R. Jr.	4847FL	Box 300, Valdez, AK, 99689	0798-51-3521
Perkins, George		2944 Emory St, Anchorage, AK 99504	
** Rockwell, Dr. Julius	11308		835-4371
** Rockwell, Elizabeth A.	15232		277-7150
** Rockwell, Julius IV (Tad)	17856		277-7150
+ Rogers, Bruce W	6732F		
Roy, Skip	7209		
** Ruback, Rusty	21537		
Sandhofer, Paul F		889 Colorado Ave, Palo Alto, CA 94303	
Sanger, Larry		1359 W 11th, Anchorage, AK 99501	
Schoonover, Keith		SR Box 9127, Eagle River, AK 99577	
Seifert, Richard D.		P.O. Box 4-133, Anchorage, AK 99509	
Smith, Hardy	22571	SRA Box 1461D, Anchorage, AK 99502	272-3055
** Smith, Dr. G. Warren	5601	4515 E 8th St., Anchorage, AK 99504	694-3571
** Street, David	8257	PO Box 80147, Fairbanks, AK 99708	344-3259
** Street, Kathryn	9960	Box 5153, North Pole, AK 99705	345-3488
Sweigart, Sheryl		4314 Stacy Rd, Seabrook, TX 77586	488-6653
* Tarras, Montserrat Urbach		2510 Foraker Dr., Anchorage, AK 99503	334-5323
* Vadna's, Douglas		2601 Commercial Dr. Anchorage, AK 99504	243-4829
Van Note, Michael J.	14174	Balms 143, 3, 2, Barceloneta 8, Spain	279-3413
Vrhele, Keith D., M.D.	18457	1430 Colombine, Anchorage, AK 99504	274-1322
Westman, Erik D.		PO Box 7756 Ketchikan, AK 99901	
Wickwire, Thomas		Box 160, Fairbanks, AK 99701	
Wilkerson, Julian B.		P.O. Box 1352, Sitka, AK 99835	747-3621
Will, Susan		908 Smyth, Fairbanks, AK 99701	747-6671x247
Wise, Mitch		2451 Benson Cir., Apt 38, Anchorage, AK 99502	452-1568
Yancey, Darrauld V.	10738	P.O. Box 81669, Fairbanks, AK 99708	248-1919
Yancey, Sue, Katie, & David		2611 W 29th Ave, Anchorage, AK 99503	263-1238
		P.O. Box 3396, Palmer, AK 99645	745-5812

ANOTHER DUMPING LAKE

This column appeared in the Anchorage Times last summer and I forgot to include in the article on Alaskan Caving in the News in the last issue of the Alaskan Caver. There are of course many dumping lakes in Alaska, one just north of McCarthy comes to mind easily, and most of them form a cave when they dump. One I know of that doesn't form a cave is Lake George southeast of Palmer. The lake fills behind the Lake George Glacier and then cuts a very deep trough between the ice and rock when it dumps.



Digging

Larry Gedney

by John Miller

The combination of glaciers flirting with lakes can cause excitement from time to time with the hydrology of Alaska.

It is rather common for a lake to form at the terminus of a glacier as meltwater becomes impounded in the debris remaining from glacier retreats. Those lakes, found at most of Alaska's glaciers, seldom pose any threat of floods from rapid changes in water level.

Such is not true however, if a lake is impounded by the edge of an active glacier. In these cases, the ice of the glacier itself acts as a dam for the lake's outlet. Except for a small amount of leakage around and under the glacier, a glacier-dammed lake can be quiescent, with only minor changes, provided that the quantity of water flowing into the lake is not greatly different from the water draining from the lake under or through the glacier ice.

In some instances such a balance does not prevail because the glacial seal is too tight to permit much drainage at all, and/or the lake may be subject each summer to a large runoff from the surrounding snow pack.

Strandline Lake, located in the mountains on the west side of Cook Inlet at the same latitude as Anchorage, is one of the more unstable glacier-dammed

lakes.

In the photo to the left it appears as the long lake nestled in the diagonal valley in the upper left of this Landsat image (from a NASA spacecraft), and is shown to be at least partially blocked at the lower end by the ice and debris of Trumvirate Glacier, in the left center. The surface of Strandline Lake appears mostly ice-covered, with some open water and floating ice near the lake's outlet.

The discharge from Strandline Lake drains along the edge of the glacier into Beluga Lake, the large lake at the right center. If the water from Strandline Lake cuts a deep channel through the ice of the glacier, or if the lake can partially lift the glacier by flotation effects, a sudden, large volume of water will course into Beluga Lake and boil down through the Beluga River canyon into Cook Inlet. Capps Glacier, in the lower center, also drains into Beluga Lake.

This recent image was received from Landsat on July 3 via the University of Alaska's Landsat Quick-Look Program, which is used to monitor many geophysical events such as floods, fires and navigation hazards. This image shows that Strandline Lake is still partly covered with ice and may be ready to trigger an outburst flood into the Beluga River. The River Forecast Center has issued a flood watch for the lower Beluga valley.

John Miller, a senior applications engineer with the University of Alaska's Geophysical Institute in Fairbanks, is substituting for Larry Gedney this week.

NEW MEMBERS

We have several new members in the Glacier Grotto this year. There now have a total of 52 members.

Mary Helms, long time Alaska resident has, by self admission, done everything in adventure sports except caving and is ready to go at it. Her activities include Community School, the Chugach Gem and Mineral Society and other organizations.

A newcomer to Alaska is Jim Nichols. He began caving in 1973 in West Virginia, and since 1974 has caved in the TAG (Tennessee-Alabama-Georgia) area. He came to Fairbanks to visit his sister, found a job and decided to stay. He says he enjoys ridgewalking (which, of course, has to be Alaskan cavers favorite pastime) and yoyoing. He has been a member of Smoky Mountain Grotto for eight years and editor of their Speleotype for 2 1/2 years. He is GUNG-HO and ready to cave. Anyone in the Fairbanks area who wants to go caving should definately give him a call.

Dues Due

Inside this issue is a membership renewal form for 1983 dues to be completed and returned in the envelope provided.

ARTICLES NEEDED

Due to other commitments, your editor will not have time to write any articles for the Alaskan Caver before next winter. Therefore, I need everyone to sent in articles; cave trip reports, caving poems, caving fiction, caving techniques etc.

Rich Hall

CALENDAR OF EVENTS

- December 16 Glacier Grotto Meeting. Meetings are held in room 312 of Grant Hall, Alaska Pacific University at 7:30 pm.
- January 20 Glacier Grotto Meeting. Meetings are held in room 312 of Grant Hall, Alaska Pacific University at 7:30 pm. The program will be an NSS slide show.
- February 17 Glacier Grotto Meeting. Meetings are held in room 312 of Grant Hall, Alaska Pacific University at 7:30 pm.
- March 17 Glacier Grotto Meeting. Meetings are held in room 312 of Grant Hall, Alaska Pacific University at 7:30 pm. The program will be an NSS slide show.

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The Alaskan Caver
Richard Hall, Editor
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