



# THE CASCADE CAVER

International Journal of  
Vulcanospeleology



Published by the Cascade Grotto, N.S.S.

VOLUME 24 NO 8&9

Editor: Mark Sherman  
Assistant Editor: Ben Tompkins

AUG - SEPT 1985



---

The CASCADE CAVER

The CASCADE CAVER is published 10 times a year by the Cascade Grotto, a member of the National Speleological Society. Annual dues for the Grotto are \$7.50, which can be sent to the Grotto Treasurer, Al Lundberg, at: 19221 38th Place N.E., Seattle, WA 98155. Other correspondence should be made to: The Cascade Grotto, P.O. Box 75663, Seattle, WA 98125-0663

GROTTO OFFICERS

Chairman:	Mark Sherman	524-8780	Vice Chairman:	Jim Harp	745-1010
Sec/Treasurer:	Al Lundberg	365-7255	Regional Rep:	Ben Tompkins	524-9526
Grotto Store:	Jim Harp	745-1010	Editor:	Mark Sherman	524-8780

---

GROTTO EVENTS

JAN 21 Grotto Meeting 7:00

FEB 1 Grotto Fund Raiser and Pizza Feed. Call Mark Sherman 524-8780 for details

FEB 18 Grotto Meeting 7:00

MARCH 8-9 McLaughlin Canyon. Call Al Lundberg at 365-7255.

JUNE 14-22 Bighorn Cave, Montana. Call Mark Sherman at 524-8780 or Ben Tompkins at 524-9526 for more information.

June 22-28 NSS Convention, New Mexico. Contact Bob Brown for more information at 569-2724.

---

CONTENTS

52.....Grotto News

52.....Bighorn Cave Interim Recommendations

54.....Thanksgiving Cave Trip

54.....Weekend Tourist-Style Caving in Santo Domingo

55.....Letter to USGS and reply

56.....Grotto Map Library

GROTTO NEWS

WORK PARTY. On Feb. 1, the Grotto is going to have a work party at Bob Brown's place in Elbe. Bob will donate \$100 to the Grotto if we help him do some remodeling. Afterwards, he will supply pizza and movies. Anyone interested please call Bob at 569-2724 or Mark Sherman at 524-8780.

GLASSES FOUND by Jeff Forbes in Papoose Cave. If they are yours call Jeff at 547-2780.

COVER. This month's cover shows Graham Heslop coaching Silas Studley on a climb in Little Red River Cave and was drawn by Linda Heslop of VICEG.

---

BIGHORN CAVE  
DRAFT INTERIM RECOMMENDATIONS  
By Mark Sherman

---

The Bighorn Cave Management Recommendations Committee met during the Labor Day weekend at Lovell, WY, to create an interim plan for managing the cave until final recommendations can be made and a plan adopted. The committee is composed of Mark Sherman (Chairman), Bob Brown and Rob Stitt (representing Washington), Phil Whitfield and Pat Shaw (B.C.), Terry Shannon and Rick Rigg (ID), Dave Ursin (UT), Tom Tucker (MT), Bob Montgomery and Wayne Sutherland

(WY), John Scheltens (SD), and Dave Allured (CO).

The following recommendations resulted from this meeting and the review period that followed it. If you have any comments or questions please contact me or any of the committee members.

#### DRAFT INTERIM RECOMMENDATIONS

The Management Recommendations committee recommends that the National Park Service, in furtherance of its policy to "manage caves for the perpetuation of their natural, geological, and ecological conditions, and historic associations," should adopt the following set of basic management objectives for Bighorn Cave, to be in effect during the interim management period:

- Protect the natural features of the cave, including its delicate mineral formations and ecosystems.
- Study the cave in order to understand it better and to develop permanent management recommendations.
- Provide reasonable limited access to interested members of the general public.

To further these objectives and to be consistent with applicable laws, and Indian and Park Service regulations, the following policies should be adopted for the interim period:

- 1) The cave (as noted below) will be open to access for recreational caving by properly equipped persons.
- 2) Surveying, inventory and research in the cave will be allowed only by special permit from the National Park Service. Such activities must assist the Park Service in its management studies. These activities must be well-coordinated with the Park Service and with other study projects in the cave.
- 3) Maximum party size shall be limited to six, with a minimum of three recommended. Parties of two may be

allowed by special permission. All parties shall include at least one person who has been in the cave before.

- 4) Twenty four persons per month shall be the maximum usage allowed. No more than two parties will be allowed in the cave on any one day.

- 5) Access will be by permit only. The following procedures are recommended:

5.1 Advance reservations may be made.

5.2 The key may be picked up and the permit signed at the visitor center.

5.3 The key is to be returned to the visitor center or mailed back within 48 hours.

5.4 Users are responsible for making their own "surface watch" arrangements.

5.5 Permits should include a conservation statement, a disclosure of risks statement, and a liability waiver. The user's signature should constitute comprehension and agreement with all of these sections.

- 6) Users are expected to remove all materials that they bring in and to not disturb features of the cave or the research sites. Users will be supplied with a write-up or brochure that describes cave conservation rules and philosophy in detail. The brochure should emphasize conservation ethics and the more subtle conservation precautions that are needed in Bighorn, such as how to avoid disturbing angel hair, floor crusts, mud features, ecosystems, research sites, etc.

- 7) A map will be provided to all parties. Areas not shown on the map are closed. These closed areas will include the northwest extension (Sand Tube area) and east of the Big Room.

- 8) These recommendations should be implemented as soon as possible.

---

THANKSGIVING CAVE, VANCOUVER ISLAND  
By Jeff Forbes

---

Date: November 28-29, 1985  
Personnel: Dan McFeeley, Jeff Forbes

The Thanksgiving holiday seemed an appropriate time for a trip to Thanksgiving Cave. Dan and I arrived at Head Bay about 2:00 PM on Thursday after getting directions from Bill Bourdillon in Courtney. Although the roads near Tahsis were bare of snow, we felt somewhat apprehensive. This since the south end of the Island had just been dumped on, and more was forecast. We had heard about the Head Bay Speleo-Hut from Bill, but we weren't expecting the likes of this Taj Mahal.

That evening we rigged the Staircase Entrance and rappelled past some nice icicles and on to the base of Staircase Aven. From there we explored a short distance west to Terror Aven, then headed out, doing some photography along the way. Being newcomers to this cave, we were surprised to note that the strong breeze was blowing down the Staircase Entrance series on this cold wintery night, indicating that Staircase was by no means the uppermost entrance. The cabin was a welcome sight that clear moonlit evening, and we managed to get the place toasty warm with the new woodstove. The next day we decided to try a Staircase to Main Entrance traverse. Upon reaching the previously rigged second drop, Dan reported that the rope was caught on something down below. By retying the anchor, he was able to get enough slack to get on rope and rappel down. At the bottom, the rope was found to be nicely frozen into the ice. Now that's one we hadn't thought of! Downstream from Staircase Aven, I was impressed by the degree to which the passage shape was controlled by geologic structure. We would follow strike for a

way, then take a right-angle turn and jog down the dip. The Dip Chamber was indeed aptly named. When we reached April Pole Aven we found the water flow to be "non-trivial". Only a moments discussion and we said "Let's go for it!". Since we planned to exit via the Main Entrance, we rigged the rope double, allowing a pull-down. By using the incredibly well placed natural anchor, it was possible to do the drop without getting soaked. Being reasonable intelligent Homo sapiens, we of course decided not to pull our rope down unless and until we had found the Main Entrance. This we did in short order. It had begun to snow lightly as we returned to the cabin after retrieving the ropes from April Pole and the Staircase Entrance series. Visions of snowbound cavers danced through our heads. Since the Gold River - Tahsis road was to be closed for construction the next day, we sneaked away in a pre-dawn departure. And not a moment too soon. While we had slept, Head Bay had received a blanket of silent new snow.

---

WEEKEND TOURIST-STYLE CAVING  
IN SANTO DOMINGO  
By William R. Halliday, M.D.

---

Readers of the Cascade Caver know of Joel Skok's impressive successes in cave-hunting in the hinterlands of the Dominican Republic, and over the years I have gathered information on a number of other caves in this beautiful Caribbean country. But all the major ones are much too remote to be easily accessible during weekend minivacations in Santo Domingo, it's capital city (I haven't yet found out what can be accomplished in similar long weekends in Puerto Plata on the other side of the island). In contrast to the high mountains farther inland, Santo Domingo and its airport 15 miles to the east are built on two emerged coral benches (Maybe more than two, I guess) which are quite karstic, with numerous sinks, blowholes in the littoral zone, and caves in the small-



to-spacious-but-short category. Los Tres Ojos del Agua (literally The Three Eyes of Water) is a popular public attraction between the airport and city limits, in a beautiful park. Once it was a spacious cavern several hundred feet long and up to almost 100 feet in diameter, but it is largely collapsed, leaving several cavernous side segments with large old speleothems and three pools of water - Los Tres Ojos. At the far end is an opening to a large Yucatan-style cenote, with an even larger pool. Although little of the cave is in even dark twilight, electric lights are present, and a hand-drawn barge conducts small groups of visitors across the third lake; really a nice place to pass a couple of hours.

A much smaller cave right in town (on the edge of the higher emerged coral terrace) is the site of a plush restaurant, named (in Fractured French, a la Spanish) La Meson de la Cava. The food is good, if a bit expensive, and it is a real spelean experience to be served on fine linen by formally dressed waiters bringing fine wines to one's table alongside massive stalagmitic masses. Alas! It was only at La Meson de la Cava, at 6 p.m. on Sunday, that I learned that another cave about 1 km farther west, in the Paseo de Los Indios park is open to the public, with electric lights, on Sundays. Next time, maybe.

Also on the way home I got around to reading the English language Santo Domingo News, and found the following item: "CUEVA DE LOS MARAVILLAS. Cave of Marvels is located 15 km east of San Pedro de Macoris, where rock carvings can be seen made by the Indians of pre-Columbian days. Visits can be arranged through the Museum of Dominican Man, in Santo Domingo." A winter grotto field trip, anybody?

P.S. A little restaurant at the junction of the airport road with the main south coast highway, on the lower emerged coral bench, is called La Cueva - The Little Cave. It might be fun to find out the reason for the name.

LETTER TO THE U.S.G.S.  
By Larry McTigue

---

Dear Sirs,

It has come to our attention recently that the Provisional 1983 Series of topographic maps for the State of Washington include many sensitive cave locations. As an affiliated chapter of the National Speleological Society, it is our desire to protect the biological and geological forms that are present in-side the caves of Washington. As such, we would like to request that you remove some of the more sensitive and less well known caves from your final draft edition of this map series. Specifically, we would like to request that you remove all cave locations printed on the 7.5 min. series of the Guler Mtn. Quadrangle except perhaps, the location of Ice Cave and Cheese Cave which have been known for many years. We would ask that you also remove all cave locations from the Mtn. St. Helens N.W. and S.W. Quadrangles (7.5 min. series) except Ape Cave, which has also been known for a long time. Over the years, we have worked with many state and federal government agencies including the Forest Service, National Park Service and BLM in order to preserve and protect these caves from further senseless vandalism. Obviously, there are many other quadrangle maps in this series here in the State of Washington and throughout the entire U.S. that have cave locations printed on them. It is our desire that it become the policy of the U.S.G.S. to eliminate the printing of cave locations, with the exception of commercialized or, tourist caves which are well known and protected by their owners.

We would appreciate knowing the policy of your office and the U.S.G.S. in general regarding this particular matter. We would like to work with you in formulating a policy concerning this subject and welcome any suggestions you may have. We look forward to hearing from you at your earliest convenience.

REPLY FROM THE U.S.G.S.  
J.R. Swinnerton  
Chief, Western Mapping Center

In response to your letter of October, 21 we have reviewed the material relating to the caves shown on Mt. St. Helens, NW and SW (published names Mt. St. Helens, Mt. Mitchell), and Guler Mtn., Washington, 7.5-minute quadrangles.

The U.S. Geological Survey (USGS) shares your concerns regarding the environmental effect of depicting caves and archeological sites on the national topographic series. We have sought advice from professional societies, state, and national agencies on this matter. As a result of these contacts, our accepted practice is to show protected and managed caves on topographic maps produced by the USGS. We believe that the selected omission of natural features on topographic maps would raise questions as to the completeness of other map detail.

We will further evaluate your request when the maps are revised or reprinted. We welcome your comments and hope you understand our position on this matter.

---

CASCADE GROTTO MAP LIBRARY  
By Rod Crawford

---

After talking about maps in the previous letter, I thought it might be a good time to mention the Grotto Map Library. Many of you might not realize this, but the Grotto has a fairly large collection of topographical maps of Washington State. Here is a list of the maps that we currently have and the

rules for borrowing them.

1) The loan period is the period from one Grotto meeting to the next. Maps borrowed between Grotto meetings are due on the second following meeting. Renewals will only be made in extraordinary circumstances (the object being to keep maps available to everyone).

2) The rental fee for members is \$.10 per map per loan period. Non-members may not borrow maps.

3) Anyone damaging map enough to greatly reduce its usefulness will be expected to pay for replacing the map (currently \$2.50).

4) Do not make any marks on maps or fold them in any way other than the way they are presently folded.

5) Do not remove maps from the plastic wrappers unless really necessary. (7 1/2' maps are folded so 1/2 of the map is visible; 15' maps, so that the entire map is visible through the plastic.)

6) The librarian will bring any maps to a meeting, that members have notified him they want to borrow. Members may borrow maps by mail so long as they pay postage (a 15' map weighs 1 oz.; a 7 1/2' map 1 1/2 oz. The Grotto map librarian is:

Rod Crawford, Museum (DB-10)  
University of Washington  
Seattle, WA 98195  
(206) 543-9853 late evenings

Maps are listed geographically by square degree of latitude and longitude. Each square degree is identified by the coordinates of the southeast corner.

---

15' QUADRANGLE MAPS OF WASHINGTON

48/124:		48/123:	Anacortes	1951	
Clallam Bay	1957	Port Angeles	1961	Orcas Island	1957
Pysht	1957	Joyce	1950	Lynden	1954
Cape Flattery	1957	Lake Crescent	1950	Van Zandt	1951
Ozette Lake	1956	48/122:	Wickersham	1951	
Lake Pleasant	1957	Blaine	1952	Samish Lake	1954

Clear Lake	1956	Spruce Mtn	1958	Spirit Lake	1957
Deception Pass	1951	Salmon River	1956	Morton	1957
48/121:		Macaffie Hill	1955	Elk Rock	1953
Mt. Baker	1952	Taholah	1955	Mt. St. Helens	1958
Mt. Shuksan	1953	Destruction Island	1956	Cougar	1953
Lake Shannon	195	47/123:		46/121:	
Hamilton	1952	Mt Christie	1947	White Pass	1962
Mt. Challenger	1953	Mt. Tom	1956	Randle	1962
Marblemount	1953	Mount Olympus	1956	Packwood	1962
Glacier Peak	1950	Tyler Peak	1946	Mt Rainier (30')	1924
Oso	1956	Kloochman Rock	1956	Bumping Lake	1962
Granite Falls	1956	Mt Angeles	1944	Steamboat Mtn (30')	1926
Silverton	1957	Mt Tebo	1953	46/120:	
48/120:		The Brothers	1947	Ellensburg	1958
Mazama	1962	Mt Steel	1947	45/122:	
Doe Mtn	1963	Elma	1953	Lookout Mtn	1953
Lucerne	1944	Potlatch	1952	Bridal Veil	1954
Holden	1944	Humtulpis	1955	45/121:	
48/119:		Wynoochee Valley	1955	Wind River	1957
Horseshoe Basin	1956	Shelton	1953	Husum	1957
Loomis	1956	47/121:			
Conconully	1957	Mount Si	1960	7 1/2' QUADRANGLE MAPS	
Tiffany Mtn	1956	Monroe	1956	OF WASHINGTON	
Oroville	1951	Index	1957		
Mt Bonaparte	1951	Easton	1961	48/123:	
Aeneas Valley	1957	Kachess Lake	1961	Friday Harbor	1954
Tonasket	1957	Greenwater	1956	False Bay	1954
Onak Lake	1953	Enumclaw	1956	Waldron Island	1954
Disautel	1952	Bandera	1960	Roche Harbor	1954
Boot Mtn	1950	Snoqualmie Pass	1961	48/122:	
Loup Loup	1956	Lester	1962	Shaw Island	1973
Okanogan	1957	47/120:		Eastsound	1973
Bridgeport	1951	Chiwaukum Mts	1965	Blakely Island	1973
48/118:		Thorp	1958	Kendall	1972
Bodie Mtn	1958	Wenatchee Lake	1965	Maple Falls	1972
Curlew	1948	Cle Elum	1958	Alger	1968
Republic	1948	Leavenworth	1964	Lake Whatcom	1972
Aeneas	1958	Liberty	1961	La Conner	1956
Togo Mtn	1948	Mount Stuart	1961	Deception Pass	1978
Orient	1948	47/119:		Utsalady	1956
Kettle Falls	1948	Ephrata	1956	Lyman	1980
Sherman Peak	1948	47/117:		Bow	1968
Twin Lakes	1952	Mt Spokane	1950	Bellingham South	1972
Inchelium	1950	Clayton	1950	48/122:	
Hunters	1948	Deer Park	1949	Finney Peak	1966
Wilmont Creek	1948	Cheney	1954	Pugh Mtn	1966
Seventeen-Mile	Mtn	46/123:		Illabot Peaks	1966
Keller	1952	Montesano	1955	Prairie Mtn	1966
Bald Knob	1953	Malone	1953	Huckleberry Mtn	1966
48/117:		Rochester	1953	Fortson	1966
Newport (30')	1936	46/122:		Rockport	
47/124:		Mineral	1956	48/119:	
La Push	1956	Ohop Valley	1959	The Pot Hole	1981
Forks	1957	Kapowsin	1956	Tonasket	1981

Riverside	1981	Addy Mtn	1965	46/124:	
Omak	1981	Colville	1952	Cape Disappointment	1973
Conconully East	1981	Arden	1965	46/121:	
48/119:		Dunn Mtn	1965	White River Park	1971
Bangs Mtn	1969	47/122:		Mowich Lake	1971
Marcus	1969	Maple Valley	1973	Chinook Pass	1971
Bossburg	1969	Issaquah	1973	Cliffdell	1971
Kettle Falls	1969	47/121:		Mt Rainier East	1971
Boyds	1969	Scenic	1965	Sunrise	1971
48/117:		Blanca Lake	1965	Mt Rainier West	1971
China Bend	1969	Skykomish	1965	King Mtn	1971
Northport	1969	Baring	1965	Mt Adams West	1970
Onion Creek	1969	Stevens Pass	1965	Lone Butte	1965
Deep Lake	1952	Grotto	1965	Mt Adams East	1970
Boundary	1952	Snoqualmie 2NW	1961	Burnt Peak	1965
Leadpoint	1952	(Advance Sheet)		Sleeping Beauty	1970
Boundary Dam	1967	47/120:		Trout Lake	1970
Park Rapids	1967	Wenatchee Lk 2 SW	1965	Quartz Creek Butte	1965
Metaline Falls	1967	(Advance Sheet)		46/120:	
Metaline	1967	47/119:		Weddle Canyon	1971
Abercrombie Mtn	1967	Park Lake	1975	45/122:	
Echo Valley	1952	Cooley City	1965	Lacamas Creek	1970
Gillette Mtn	1952	Ephrata	1956	Washougal	1975
Spirit	1952	47/117:			
White Mud Lake	1952	Pine City	1964		

#####

The Next Grotto Meeting is at 7:00 on January 21st

#####