

...back to being

## THE INTERPLANETARY JOURNAL OF VULCANOSPELEOLOGY

or  
THE CASCADE CAVER  
Official publication of the  
Cascade Grotto of the  
National Speleological Society, Inc.

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... on account of  
**ALL OF A SUDDEN WE'VE GOT COMPANY!**

Volume 9 no. 2

Editor: Dr. William R. Halliday

February 1970

### Reference:

Oberbeck, Verne R., Quaide, William L., & Greeley, Ronald. 1969.  
On the origin of lunar sinuous rilles. Modern Geology, Vol. 1, pp. 75-80

"...(lunar) lava tubes...can collapse to form sinuous rilles as a result of gravitational forces and meteoroid erosion... some lunar sinuous rilles are probably collapsed lava tubes..."

Furthermore, the authors calculate that the lunar lava tubes are about 1500 feet wide, and demonstrate mathematically that with lunar gravity, such caves would be stable initially.

If we weren't on this xerox jazz, I'd run the whole article. As it is, we can't afford it. Come to the next meeting and read the reprint.

### Down-to-earth coming events of the grotto

February 1. Mt. St. Helens trip, weather permitting. Call Bill Halliday, EA4-747

February 8. Possible Paradise Ice Cave trip, if the snow compacts a bit. Call Charley Anderson at work; new number is MA 3-2004.

February 16. Regular meeting, Hallidays, 8 PM. 1117 36th Ave. E.  
Program: Alaska glacier caves, by Dr. John Reid. Also trip planning.

Feb. 20. Oregon Grotto meeting, 7:30; Portland, at OMSI.

Feb. 21-23. Oregon Grotto Mt. Adams invitational trip to Red and other caves.

March 7. Cascade Grotto invitational potluck dinner for all NW cavers. At the Hallidays, 6:30 PM or thereabouts. NOTE: WORK PARTIES NEEDED.

March weekends. Mt. St. Helens trips, perhaps Boulder Cave. Call Bob Brown, RO3-9094. Also another try at Big Four Ice Cave maybe????

Memorial Day weekend. Papoose Cave.

July 4 weekend. Summit caves of Mt. Rainier.

Labor Day weekend. NWRA Convention in eastern Nevada.

2# P.10U

Field trip reports:

## JANUARY MISERY TRIPS MIZZLE OUT

Under the intrepid leadership of Charley Anderson, the grotto set some kind of record during the first three weeks in January. Two trips headed for the Paradise Ice Cave, and two for the Big Four Ice Cave. Weather and snowshoe problems forced all to quit short of their goals.

## BUT THEN CAME THE CHINOOK

and the snows melted almost to the 3,000-foot level on Mt. St. Helens. So on Jan. 25, Charley Anderson, Claude Smith, Russ Patterson, a new caver named Corrie Lynn and yr editor headed for Ape Cave for photography and mapping. Unfortunately we were one day too late; we had to walk in from well below the Ape Cave road junction and there was about 6" at the cave. Inside the cave it was raining hard, but we managed the photography and to get the 1970 caving year off to a delayed start.

The trip demonstrated a problem. (editorial)

Some of us had known vaguely that there was a snowmobile area somewhere in the cave area. On this trip, we found signs supposedly limiting the area to snowmobiles at a point where there was no snow at all, just above the reservoir road junction. Because of all the private land in the cave area, it seems doubtful that these signs are valid even if they had been in a snow area. The snowmobilers themselves were driving well into the supposedly restricted area, and while we were hiking to the cave and in the cave, at least two four-wheel drive vehicles made it to the cave itself, totally ignoring the area designation. While hiking to the cave, we were buzzed by perhaps a dozen snowmobiles, without once getting a friendly smile or word either from those in motion or stopped. The cave itself shows a marked reaccumulation of litter; we'd better plan to clean it again this summer.

Frankly, I am deeply concerned about this designation of the cave area as a snowmobile area, whether or not the action is actually legal. Certainly none of us was consulted in the area, and this appears in the process of threatening seriously the primary value of the area - its caves. There is plenty of excellent snowmobile country north and east of the McBride Lake road for snowmobiles, and even some caves available there for those who wish to visit caves by this means - caves far less fragile than those of the portion of the flow west and south of this road including Ape Cave. Cave study and preservation not only is the paramount value of this area, but was a well-established use long before this snowmobile matter ever was evolved. At the next grotto meeting, I suggest we urge all levels of the NSS to restrict snowmobile use in the Mt. St. Helens cave area to the McBride Lake road and the lands east and north thereof.

-- editorial by Dr. William R. Halliday



CONSTITUTION  
of the Cascade Grotto of the  
National Speleological Society, Inc...

- I. The name of this organization shall be the Cascade Grotto of the National Speleological Society.
- II. The purposes of this grotto shall be the same as those of the NSS with the additional object of organizing members of the NSS in the Pacific Northwest into a group to better promote NSS objects.
- III. The entire management and government of this grotto except as otherwise expressly provided shall be vested with the membership.

Section 2. The officers of the grotto shall be: Chairman, Vice-chairman and Secretary-treasurer, elected yearly by the membership. Their duties shall be those usually associated with each office.

Section 3. The membership shall have complete power to manage the grotto, to make rules relating to subsequent elections, to formulate by-laws, to appoint chairmen of special committees, to raise funds in any manner not inconsistent with the policies of the Board of Governors of the NSS, and to perform all other necessary functions.

IV. General and special business meetings of the grotto shall be held at such times and places as are determined by the membership, and the chairman of the grotto shall have the power to call special business meetings whenever necessary.

Section 2. Decisions reached at special business meetings must be ratified at the next general meeting of the grotto.

V. Membership is open to all persons in the Pacific Northwest interested in the grotto's purposes, but they must join the NSS after one year of continuous membership in the grotto.

Section 2. Only members with their grotto dues paid shall have voting rights in the election of officers or at meetings.

VI. The constitution and by-laws of the NSS shall be binding on this grotto. Any action inconsistent therewith shall be null and void.

VII. Any property held by this grotto shall revert to the NSS in the event of dissolution of the grotto.

Grotto constitution unanimously approved by charter members 2-15-51.  
Revised constitution unanimously approved 1-19-70 after publication and  
due notification.



## Vulcanospeleological abstract

Bailey, Joyce. 1969. (untitled - "Bailey's Bailiwick) The Underground, Vol. 12, no. 4, Dec., pp. 209-215.

During the summers of 1968 and 1969, the Baileys travelled west from Missouri and visited "the deep ice caves shown on the Shasta-Trinity National Forest map" in northern California. They apparently weren't much impressed with the vulcanological features, but report an outstanding glaciere. We'd better send for the map...

## Vulcanospeleological visiting

At Thanksgiving, 1969, an Australian vulcanologist, E. Bernard Joyce, visited Seattle while returning home from London. On Saturday, Jack Hyde took him to Ape Cave, and on Sunday, I took him to the Mt. Adams area, visiting Massey's Barn Cave, Red Cave, the lower end of the Big Trench system, Ice Cave and New Cave. This turned out to be an unexpectedly interesting trip despite ten hours' driving for four hours in the cave area. The decomposing animals in the entrance of Massey's Barn Cave are now passable, and the cave is pleasantly sand-floored although fairly low. It has a braided pattern well worth mapping. We entered the Red system through the Poacher's Cave entrance, and at the junction area, spotted 8 banded bats in hibernation, all *Plecotus* sp. Clyde Senger identified himself as the banded of the six we could read, four of these a month earlier, but a mating pair banded a year earlier. At the Ice Cave, little ice had reformed. A silver frost was fast developing, and the cave at the lower end of the Big Trench system and New Cave were steaming. Bernie is going to send us material on Australian lava tube caverns he has studied; he was amused to see one paper already vulcanospeleologically abstracted.

## PAPOOSE CAVE DROPS A NOTCH - - TEMPORARILY?

Richard Schreiber writes: "Recent computerization of the Ellison's Cave (Georgia) survey data indicates that the total vertical extent is over 1,000 feet rather than 981 feet as hand-calculated. I will let you know the exact depth when the computer cards are checked". Your editor had missed even the 981-foot depth listing. I personally think we'll have to bypass the siphons for Papoose Cave to beat even 981 feet, so for the moment, we'll have to list Papoose as the fourth deepest limestone cave in the U.S. - and let's get the rest of the main route mapped this summer!

## OREGON CAVE TO BE IN THE N.S.S. Bulletin

Five or six years ago I submitted an article on Oregon Cave to the N.S.S. Bulletin. What with policy changes, the well-known recent delays and GOKW it hasn't appeared. However last month I was sent the proofs, and presumably it will be out sometime. One on the Paradise Ice Caves is supposed to follow.

## CURRENT PARADISE ICE CAVE MAP

Enclosed in this issue is the current map of the Paradise Ice Caves. Nobody from the grotto has managed to get there since November, but if the snow compacts soon, further winter mapping is planned. The map is courtesy of Charley Anderson.

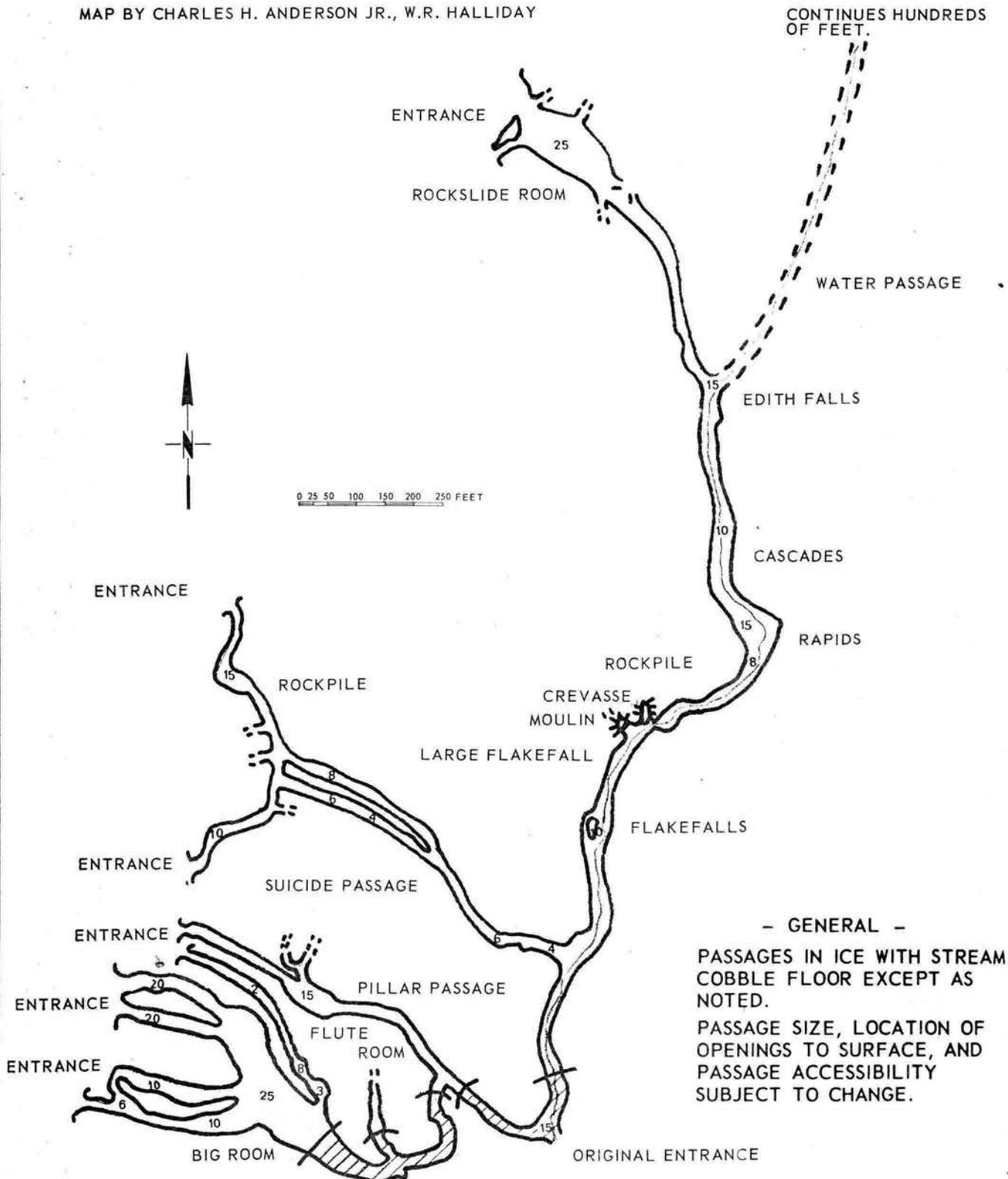


**PARADISE ICE CAVES**  
**STEVENS GLACIER MT. RAINIER NATIONAL PARK, WASH.**

SURVEY BY CASCADE GROTTO,  
 NATIONAL SPELEOLOGICAL SOCIETY DEC. 1969  
 GRADE 4 MINUS (C.R.G.)

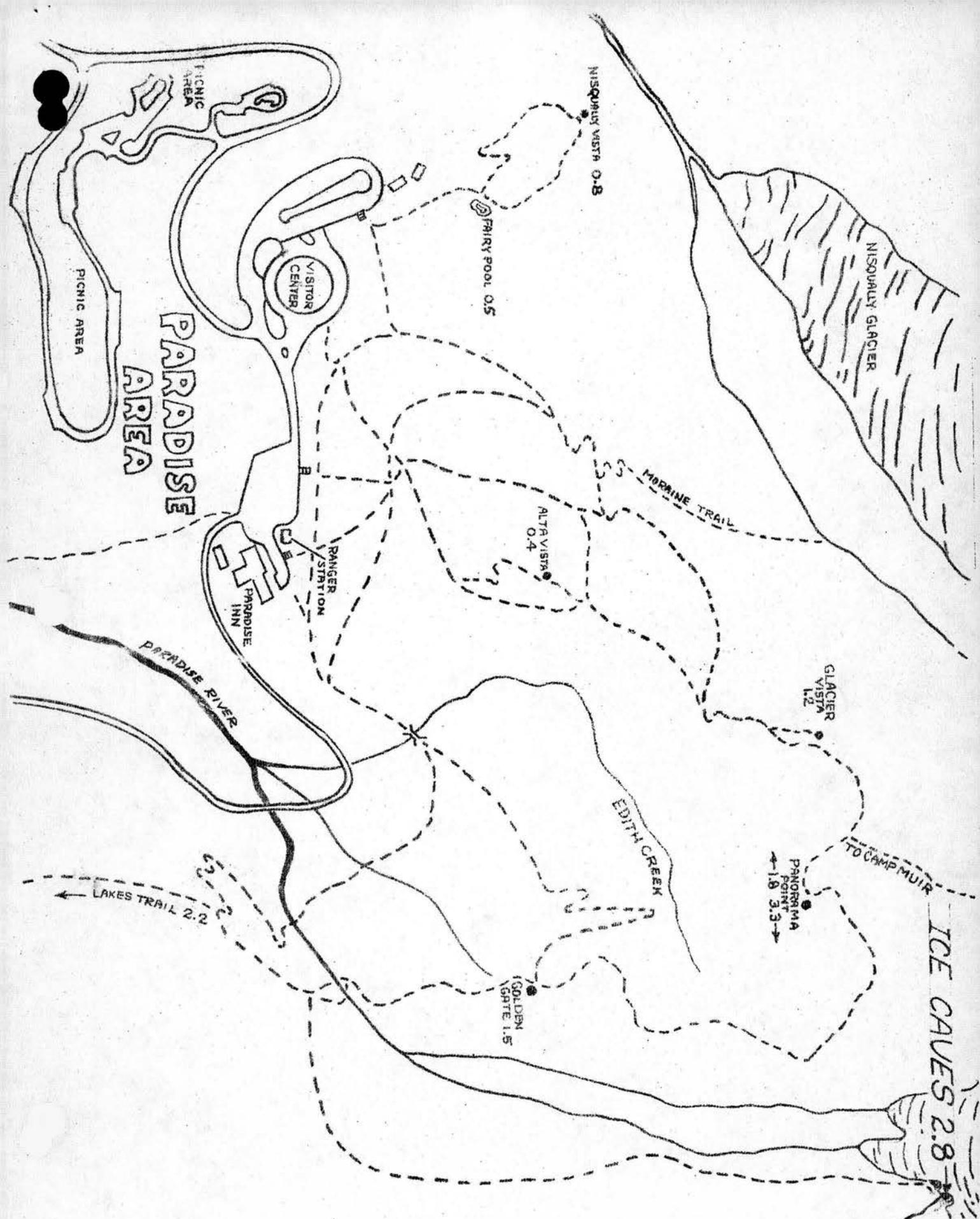
MAP BY CHARLES H. ANDERSON JR., W.R. HALLIDAY

CONTINUES HUNDREDS  
 OF FEET.



COLLAPSED 1967-69







## INSERTS IN THIS ISSUE

include a map of the Paradise Ice Cave region and a reprint of a fine article on the management of the Mt. St. Helens area. The grotto is on record for national monument status only of the cave area, but perhaps we should think a bit more broadly....

For the benefit of harassed librarians, perhaps we should mention that these inserts do not carry a page number.

From old correspondence of Dave Brannon

a cave is reported in eastern Washington, supposedly known for a long time, in the extreme sw corner of section 29 or the extreme nw corner of section 32, T 40 N, R42 E. This was reported by a Mr. John Beusan, who had been hunting the cave unsuccessfully; he did mention a small cave in the Flat Creek community nearby, and "a little cave north of the Indian cemetery, on the west side of the river...in section 10". This is the Northport area, where there is some tremendous limestone. Ask Jan.

SEND YOUR MATERIAL IN. Things are really starting to roll again.

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