

**Accident Report-Utah Avalanche Forecast Center-Logan, 1/14/97**  
**Folly Avalanche Accident**  
**Bear River Range, Wasatch-Cache National Forest**  
**Report Submitted by Mike Jenkins and Kevin Kobe, UAFC-Logan**

Avalanche location: the "Folly", Dry Canyon, Logan Peak area, east of Little Big Mountain  
3 backcountry skiers/ campers buried and killed

Date: 1/11/97-1/12/97

Time: Unknown, (guess: evening hours 1/11/97)

Type: Hard Slab (HS) Class 4

Crown height: 3.5 ft

Crown width: 40 ft.

Size (width): 300 ft.

Maximum debris depth: 10 ft.

Vertical drop: 680 ft.

Aspect: 235 degrees

Starting zone elevation: 8820 ft.

Starting zone slope angle: 35 degrees

Bed surface: Rain crust (formed 1/1 and 1/2/97)

Weak layer: Upper layer faceted snow above raincrust

Trigger: Natural, resulting from heavy precipitation and strong winds from NW thru E;  
associated with passage of an arctic cold front at 1800 hrs., 1/11/97

Rescue: The skiers were reported missing when they failed to return from a camping/ski trip on schedule. A hasty rescue party of 10 skiers and 1 Rocky Mountain Rescue Dog dispatched by the Cache Co. Sheriff SAR at 2100 hours on Jan. 13, 1997. Snow machines took the skiers to within 2 miles of the slide. Information from witnesses who had seen the party earlier in the day on Jan. 11 helped the rescuers locate the debris by 2230. One of the victims transceiver was still on transmit and a beacon search quickly located the burial site 50 feet above the toe of the slide in thick timber. The victims were located under 4-6 feet of snow using probes. Shoeling was difficult and the bodies were not fully uncovered until 2400. All three victims were in their sleeping bags in their tent which was wrapped around a tree. The cause death appeared to be suffocation.

The avalanche occurred on a SW facing slope known locally as "the folly". It is on the ridgeline that separates Logan Cyn. from Dry Cyn. the drainage leading west from Logan Peak to the city center. The avalanche was a hard slope, class 4 which released naturally. The hard slab was formed by strong winds from the NW through E associated with a cold front that arrived in our area at about 1800 hours on the evening of the accident. An additional foot of snow fell overnight adding to a foot that fell during the day. Winds preceding the accident were 25-50 mph. The new snow and wind redeposited snow fell on about 6 inches of upper level recrystallized snow which rested on a 5 inch rain crust formed January 1 and 2. The avalanche ran farther and faster than might have been expected due to the presence of the rain crust.

Victims: Max Lyon (38), Keith Maas (36), and Karl Mueggler (29)

Hasty Rescue Team: Kevin Kobe, Al Dymerski, Chris Heck, Ken Murphy, Tom Rivest, Spencer Logan, Mark Lunt, Liz Shulte, Mike Jenkins, Frederick Norsell, and Rocky Mountain Rescue Dog: Sylvi.

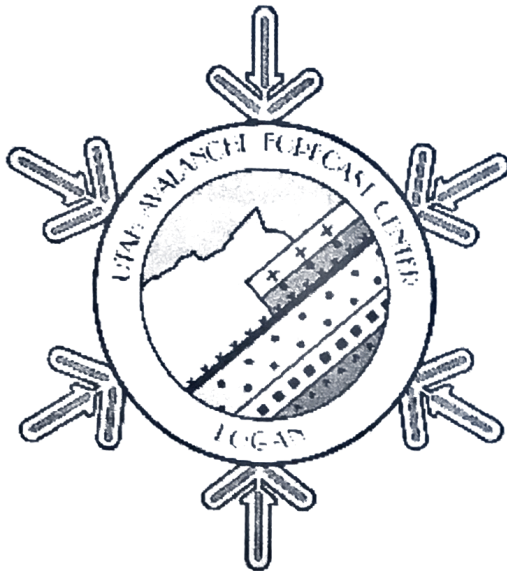
Staging area leader at base of Dry Canyon: Chris Gaddis

Witnesses (last seen on afternoon of 1/11/97): Spencer Logan, Al Dymerski, Wally MacFarlane, and Frederick Norrsell

Avalanche Danger from the Utah Avalanche Forecast Center-Logan Advisory, 1/11/97: "Today there will be moderate hazard of human triggered avalanches on NE, E and SE facing slopes steeper than 35 degrees with recent deposits of wind drifted snow. These areas will be most common near exposed ridgelines, but crossloading on subbridges and around terrain traps is also likely. A moderate hazard means that human triggered avalanches are possible on steep terrain, but that the hazard is localized. Additional new snow or wind will cause the hazard to increase today. Snow conditions will range from scour to breakable sun crust to wind crust. The sensitive wind slabs may be hard to identify, but will be easy to recognize if you dig down your hand or shovel and observe the layering and shear strength above the prominent rain crust. The best boarding and skiing conditions will be found today on sheltered mid elevation slopes. Individuals without well developed route finding and hazard evaluation techniques should restrict their travel to slopes 30 degrees and less in steepness.

Actual Weather Conditions: The entire Wasatch Front was inundated with a surprise (not forecasted) intense weather system which generated two inch per hour snow fall rates in association with moderate to strong NW, N and then E winds on the afternoon of 1/11/97 and into 1/12/97. Logan Canyon, and both the Cottonwood Canyons in the Central Wasatch were closed because of snow associated problems. The Cottonwoods experienced several road threatening natural avalanches. Many empty autos were buried, a Sheriff's car was struck and buried, and several other people were also buried in Little Cottonwood. Natural avalanches occurred throughout the evening and into the early morning hours of 1/11/97 and 1/12/97 in the entire Wasatch Range. It is these unpredicted snow fall rates and winds which attributed to the fatal avalanche that took the lives of these experienced backcountry travelers.

An avalanche warning was issued by UAFC in SLC for the entire Wasatch Range at 1500 on the day of the incident.



## Backcountry Avalanche and Mountain Weather Advisory

### for the Northern Wasatch Mountains

[Home Page](#) | [About the Forecast Center](#) | [Advisory](#)

**Be sure to read all segments of this forecast before venturing into the backcountry.**

#### Introduction

Good morning this is Mike Jenkins with you backcountry avalanche and mountain weather advisory for the Northern Wasatch Mountains for Saturday January 11, 1997 and it is 0730. The Utah Avalanche Forecast Center in Logan is brought to you by the College of Natural Resources at USU in cooperation with the Wasatch-Cache National Forest.

#### Education

Rain on January 1 and 2. A foot of new on January 3 followed by cold air. Eight to ten inches of new snow in dribs and drabs between January 7 and 10 and then big winds from the W and NW. This is the scenario that has setup the avalanche hazard we will be dealing with for the next several days. The cold air caused a condition we call recrystallization which generally weakens the snow surface. It makes for good travel conditions when on the surface but when buried by additional snow becomes a significant weak layer.

#### Snow Pack Stability

Bed surface, weak layer, slab. Sound familiar?? They are all in place and yesterday as I toured around I found very sensitive wind slabs on NE, E and SE facing slopes. These slabs easily failed with cornice bombs and ski cuts. The new wind slabs slid on the recrystallized snow or within individual wind deposited layers. We received an additional 3" overnight with WNW winds continuing with hourly averages above 25 mph and gusts to over 40. For 8 hours yesterday morning winds averaged 36 to 42 mph with gusts over 50. My observations were validated by a report

Yesterday from the Hell's Kitchen area where a party of skiers triggered a slide sympathetically above them on a SE facing slope. The slide was 3-6 inches deep and was 300' wide and ran for about 300'. No one was caught, but it points out the sensitive nature of the snowpack.

## **Avalanche Danger: Conditions by Elevation and Aspect**

Today there will be moderate hazard of human triggered avalanches on NE, E and SE facing slopes steeper than 35 degrees with recent deposits of wind drifted snow. These areas will be most common near exposed ridgelines, but crossloading on subridges and around terrain traps is also likely. A moderate hazard means that human triggered avalanches are possible on steep terrain, but that the hazard is localized. Additional new snow or wind will cause the hazard to increase today. Snow conditions will range from scour to breakable sun crust to wind crust. The sensitive wind slabs may be hard to identify, but will be easy to recognize if you dig down with your hand or shovel and observe the layering and shear strength above the prominent rain crust. The best boarding and skiing conditions will be found today on sheltered mid elevation slopes. Individuals without well developed route finding and hazard evaluation techniques should restrict their travel to slopes 30 degrees and less in steepness.

## **Any Special Hazards**

Snowmobilers I talked with yesterday said that the supportable rain crust made for go anywhere conditions. Be especially careful today high marking steep open E facing bowls below cornices. Only allow one machine on the slope at a time and watch your partners from a safe location.

## **Mountain Weather**

A closed low that moved into our area yesterday has move west toward Nevada and will bring additional light snow today before winds become E and snow shuts off. Then on Sunday a SW flow may develop with reinforcement from arctic air and a moist atmosphere to create the potential for another shot of snow Sunday p.m. into Monday. Today winds will be NW at 25 with 10000' temperatures in the teens and at 8000' in the low 20s turning much colder tonight and tomorrow.

## **Call to Report Avalanches 797-4145**

If you see anything interesting in the backcountry, especially in the way of avalanches, please call our Logan office 797-4145.

Kevin Kobe will update this advisory by 0800 Sunday morning and thanks for calling.

**This Forecast is Updated Daily**

**Email:** [fajenkin@cc.usu.edu](mailto:fajenkin@cc.usu.edu)

ZCZC SLCSABSLC ALL  
TTAA00 KSLC DDHHMM  
UTZALL-231200-

UTAH AVALANCHE FORECAST CENTER  
FOREST SERVICE - NATIONAL WEATHER SERVICE, SALT LAKE CITY, UTAH

1500 HRS, SATURDAY, JANUARY 11, 1997

\*\*\* AVALANCHE WARNING \*\*\*

AN AVALANCHE WARNING IS IN EFFECT FOR THE MOUNTAINS OF NORTHERN UTAH. HEAVY SNOWFALL LANDING ON A WEAK PREEXISTING SNOW PACK HAS CAUSED A HIGH DANGER OF HUMAN TRIGGERED AVALANCHES. SPONTANEOUS SLIDES ARE POSSIBLE. PEOPLE SHOULD AVOID STEEP TERRAIN AND AVALANCHE RUN-OUT AREAS.

FOR MORE DETAILED INFORMATION, CALL: 364-1581

UTAH AVALANCHE FORECAST CENTER (USDA FOREST SERVICE/NATIONAL  
WEATHER SERVICE)  
LEES  
NNNN

ZCZC SLCSABSLC ALL  
TTAA00 KSLC DDHHMM  
UTZALL-231200-

UTAH AVALANCHE FORECAST CENTER  
FOREST SERVICE - NATIONAL WEATHER SERVICE, SALT LAKE CITY, UTAH

0500 HRS, SUNDAY, JANUARY 12, 1997

\*\*\* AVALANCHE WARNING \*\*\*

AN AVALANCHE WARNING IS IN EFFECT FOR THE MOUNTAINS OF NORTHERN UTAH. HEAVY SNOWFALL LANDING ON A WEAK PRE EXISTING SNOW PACK HAS CAUSED A HIGH DANGER OF HUMAN TRIGGERED AVALANCHES. SPONTANEOUS SLIDES ARE POSSIBLE. PEOPLE SHOULD AVOID STEEP TERRAIN AND AVALANCHE RUN-OUT AREAS.

FOR MORE DETAILED INFORMATION, CALL:

|                |          |
|----------------|----------|
| SALT LAKE CITY | 364-1581 |
| LOGAN          | 797-4146 |
| OGDEN          | 626-8600 |
| PROVO          | 374-9770 |
| PARK CITY      | 649-2250 |

UTAH AVALANCHE FORECAST CENTER (USDA FOREST SERVICE/NATIONAL  
WEATHER SERVICE)  
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NNNN

MTOGDEN.TMP

January 15, 1997

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1-15-1997 Mt Ogden (9,572')

| Date | Hour | Wind<br>Dir | Wind<br>Speed | Gust | Air<br>temp |
|------|------|-------------|---------------|------|-------------|
| 1 9  | 2400 | 304         | 41            | 52   | 19          |
| 1 10 | 100  | 306         | 44            | 54   | 19          |
| 1 10 | 200  | 307         | 42            | 54   | 19          |
| 1 10 | 300  | 269         | 39            | 59   | 20          |
| 1 10 | 400  | 311         | 42            | 50   | 19          |
| 1 10 | 500  | 312         | 39            | 52   | 19          |
| 1 10 | 600  | 312         | 38            | 47   | 19          |
| 1 10 | 700  | 312         | 38            | 46   | 18          |
| 1 10 | 800  | 308         | 36            | 47   | 17          |
| 1 10 | 900  | 303         | 36            | 46   | 16          |
| 1 10 | 1000 | 300         | 42            | 52   | 18          |
| 1 10 | 1100 | 306         | 37            | 55   | 18          |
| 1 10 | 1200 | 316         | 31            | 43   | 20          |
| 1 10 | 1300 | 319         | 28            | 42   | 19          |
| 1 10 | 1400 | 319         | 27            | 39   | 20          |
| 1 10 | 1500 | 314         | 27            | 33   | 19          |
| 1 10 | 1600 | 315         | 24            | 31   | 19          |
| 1 10 | 1700 | 320         | 27            | 39   | 18          |
| 1 10 | 1800 | 320         | 23            | 35   | 17          |
| 1 10 | 1900 | 320         | 17            | 25   | 18          |
| 1 10 | 2000 | 322         | 13            | 18   | 18          |
| 1 10 | 2100 | 323         | 16            | 28   | 18          |
| 1 10 | 2200 | 322         | 16            | 29   | 18          |
| 1 10 | 2300 | 320         | 21            | 34   | 18          |
| 1 10 | 2400 | 319         | 22            | 32   | 18          |
| 1 11 | 100  | 319         | 26            | 36   | 18          |
| 1 11 | 200  | 319         | 27            | 33   | 18          |
| 1 11 | 300  | 314         | 26            | 34   | 18          |
| 1 11 | 400  | 313         | 27            | 41   | 18          |
| 1 11 | 500  | 313         | 31            | 38   | 17          |
| 1 11 | 600  | 313         | 30            | 36   | 17          |
| 1 11 | 700  | 316         | 26            | 32   | 17          |
| 1 11 | 800  | 317         | 24            | 34   | 17          |
| 1 11 | 900  | 315         | 24            | 32   | 17          |
| 1 11 | 1000 | 315         | 24            | 29   | 18          |
| 1 11 | 1100 | 315         | 30            | 47   | 20          |
| 1 11 | 1200 | 317         | 35            | 51   | 20          |
| 1 11 | 1300 | 314         | 40            | 51   | 20          |
| 1 11 | 1400 | 313         | 42            | 51   | 19          |
| 1 11 | 1500 | 313         | 42            | 53   | 18          |
| 1 11 | 1600 | 315         | 47            | 64   | 18          |
| 1 11 | 1700 | 317         | 48            | 71   | 17          |
| 1 11 | 1800 | 314         | 37            | 51   | 16          |
| 1 11 | 1900 | 317         | 28            | 42   | 16          |
| 1 11 | 2000 | 317         | 27            | 40   | 13          |
| 1 11 | 2100 | 312         | 17            | 35   | 8           |
| 1 11 | 2200 | 313         | 18            | 30   | 6           |
| 1 11 | 2300 | 172         | 6             | 19   | 1           |
| 1 11 | 2400 | 206         | 6             | 18   | -3          |
| 1 12 | 100  | 221         | 6             | 20   | 2           |
| 1 12 | 200  | 155         | 9             | 29   | -1          |
| 1 12 | 300  | 137         | 18            | 36   | -8          |

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|      |      |     |    |    |     |
|------|------|-----|----|----|-----|
| 1 12 | 400  | 133 | 22 | 37 | -10 |
| 1 12 | 500  | 127 | 25 | 41 | -13 |
| 1 12 | 600  | 125 | 26 | 42 | -15 |
| 1 12 | 700  | 122 | 24 | 44 | -16 |
| 1 12 | 800  | 122 | 26 | 42 | -17 |
| 1 12 | 900  | 128 | 28 | 46 | -15 |
| 1 12 | 1000 | 138 | 23 | 38 | -11 |
| 1 12 | 1100 | 144 | 15 | 36 | -9  |
| 1 12 | 1200 | 155 | 12 | 29 | -6  |
| 1 12 | 1300 | 145 | 14 | 38 | -3  |
| 1 12 | 1400 | 133 | 25 | 46 | -4  |
| 1 12 | 1500 | 131 | 32 | 49 | -8  |
| 1 12 | 1600 | 127 | 32 | 47 | -9  |
| 1 12 | 1700 | 128 | 32 | 53 | -10 |
| 1 12 | 1800 | 131 | 32 | 47 | -9  |
| 1 12 | 1900 | 132 | 33 | 48 | -6  |
| 1 12 | 2000 | 135 | 30 | 47 | -4  |
| 1 12 | 2100 | 138 | 27 | 45 | 0   |
| 1 12 | 2200 | 135 | 41 | 59 | 0   |
| 1 12 | 2300 | 130 | 46 | 61 | -3  |
| 1 12 | 2400 | 125 | 39 | 56 | -6  |

BEAVER.TMP

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## Hourly Beaver Mountain Summary (8,800')

| Date | Hour | H2O<br>Inches | Storm<br>Board | Total<br>Snow | Temp |
|------|------|---------------|----------------|---------------|------|
| 1 9  | 2400 | 3.518         | 3              | 91            | 21   |
| 1 10 | 100  | 3.52          | 3              | 91            | 21   |
| 1 10 | 200  | 3.521         | 3              | 91            | 21   |
| 1 10 | 300  | 3.536         | 3              | 91            | 21   |
| 1 10 | 400  | 3.543         | 3              | 91            | 21   |
| 1 10 | 500  | 3.548         | 3              | 91            | 20   |
| 1 10 | 600  | 3.55          | 3              | 91            | 19   |
| 1 10 | 700  | 3.55          | 3              | 91            | 18   |
| 1 10 | 800  | 3.55          | 3              | 91            | 17   |
| 1 10 | 900  | 3.562         | 3              | 91            | 18   |
| 1 10 | 1000 | 3.562         | 3              | 91            | 18   |
| 1 10 | 1100 | 3.566         | 0              | 91            | 19   |
| 1 10 | 1200 | 3.568         | 0              | 91            | 19   |
| 1 10 | 1300 | 3.567         | 0              | 91            | 19   |
| 1 10 | 1400 | 3.568         | 0              | 91            | 20   |
| 1 10 | 1500 | 3.573         | 0              | 91            | 20   |
| 1 10 | 1600 | 3.577         | 0              | 91            | 21   |
| 1 10 | 1700 | 3.58          | 0              | 91            | 20   |
| 1 10 | 1800 | 3.584         | 0              | 91            | 19   |
| 1 10 | 1900 | 3.585         | 0              | 91            | 19   |
| 1 10 | 2000 | 3.585         | 0              | 91            | 19   |
| 1 10 | 2100 | 3.594         | 0              | 91            | 19   |
| 1 10 | 2200 | 3.601         | 0              | 91            | 19   |
| 1 10 | 2300 | 3.614         | 0              | 91            | 19   |
| 1 10 | 2400 | 3.627         | 0              | 91            | 19   |
| 1 11 | 100  | 3.656         | 1              | 92            | 19   |
| 1 11 | 200  | 3.705         | 1              | 92            | 19   |
| 1 11 | 300  | 3.742         | 2              | 92            | 20   |
| 1 11 | 400  | 3.777         | -336           | 92            | 20   |
| 1 11 | 500  | 3.804         | 3              | 93            | 19   |
| 1 11 | 600  | 3.823         | 3              | 93            | 19   |
| 1 11 | 700  | 3.831         | 3              | 93            | 19   |
| 1 11 | 800  | 3.847         | 3              | 93            | 19   |
| 1 11 | 900  | 3.856         | 3              | 93            | 19   |
| 1 11 | 1000 | 3.862         | 3              | 93            | 19   |
| 1 11 | 1100 | 3.879         | 4              | 93            | 20   |
| 1 11 | 1200 | 3.9           | 4              | 94            | 21   |
| 1 11 | 1300 | 3.921         | 4              | 94            | 21   |
| 1 11 | 1400 | 3.951         | 4              | 95            | 21   |
| 1 11 | 1500 | 4.003         | 5              | 95            | 21   |
| 1 11 | 1600 | 4.01          | 5              | 95            | 19   |
| 1 11 | 1700 | 4.028         | 0              | 96            | 13   |
| 1 11 | 1800 | 4.054         | 0              | 98            | 0    |
| 1 11 | 1900 | 4.065         | 1              | 99            | -6   |
| 1 11 | 2000 | 4.075         | 2              | 99            | -8   |
| 1 11 | 2100 | 4.082         | 2              | 99            | -10  |
| 1 11 | 2200 | 4.086         | 2              | 99            | -11  |
| 1 11 | 2300 | 4.093         | 2              | 99            | -12  |
| 1 11 | 2400 | 4.098         | -289           | 99            | -14  |
| 1 12 | 100  | 4.104         | 8              | 99            | -16  |
| 1 12 | 200  | 4.116         | 10             | 100           | -17  |
| 1 12 | 300  | 4.12          | 12             | 100           | -17  |

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|      |      |       |      |     |     |
|------|------|-------|------|-----|-----|
| 1 12 | 400  | 4.122 | 13   | 100 | -17 |
| 1 12 | 500  | 4.125 | 13   | 100 | -18 |
| 1 12 | 600  | 4.136 | 13   | 101 | -18 |
| 1 12 | 700  | 4.157 | 14   | 101 | -19 |
| 1 12 | 800  | 4.171 | 14   | 101 | -19 |
| 1 12 | 900  | 4.171 | 14   | 101 | -19 |
| 1 12 | 1000 | 4.172 | 14   | 101 | -19 |
| 1 12 | 1100 | 4.178 | 14   | 102 | -18 |
| 1 12 | 1200 | 4.18  | 14   | 102 | -17 |
| 1 12 | 1300 | 4.18  | 14   | 102 | -17 |
| 1 12 | 1400 | 4.181 | 14   | 102 | -16 |
| 1 12 | 1500 | 4.185 | 13   | 102 | -16 |
| 1 12 | 1600 | 4.186 | 13   | 101 | -15 |
| 1 12 | 1700 | 4.187 | 13   | 101 | -16 |
| 1 12 | 1800 | 4.189 | 12   | 102 | -17 |
| 1 12 | 1900 | 4.189 | 13   | 101 | -17 |
| 1 12 | 2000 | 4.189 | 13   | 101 | -16 |
| 1 12 | 2100 | 4.189 | 13   | 101 | -16 |
| 1 12 | 2200 | 4.191 | 13   | 101 | -16 |
| 1 12 | 2300 | 4.192 | -321 | 101 | -16 |
| 1 12 | 2400 | 4.192 | -322 | 100 | -15 |
| 1 13 | 100  | 4.194 | -322 | 100 | -14 |
| 1 13 | 200  | 4.194 | -322 | 100 | -13 |
| 1 13 | 300  | 4.197 | -322 | 100 | -13 |
| 1 13 | 400  | 4.201 | -323 | 100 | -12 |
| 1 13 | 500  | 4.202 | -324 | 100 | -11 |
| 1 13 | 600  | 4.202 | -324 | 100 | -10 |
| 1 13 | 700  | 4.204 | -324 | 100 | -10 |
| 1 13 | 800  | 4.207 | 16   | 99  | -9  |
| 1 13 | 900  | 4.208 | 16   | 99  | -7  |
| 1 13 | 1000 | 4.21  | 16   | 99  | -4  |
| 1 13 | 1100 | 4.213 | 16   | 99  | -1  |
| 1 13 | 1200 | 4.216 | 16   | 99  | 1   |
| 1 13 | 1300 | 4.221 | 16   | 99  | 3   |
| 1 13 | 1400 | 4.23  | 17   | 99  | 4   |
| 1 13 | 1500 | 4.265 | 0    | 99  | 6   |
| 1 13 | 1600 | 4.255 | 0    | 99  | 6   |
| 1 13 | 1700 | 4.255 | 0    | 99  | 5   |
| 1 13 | 1800 | 4.255 | 0    | 99  | 4   |
| 1 13 | 1900 | 4.256 | 0    | 99  | 5   |
| 1 13 | 2000 | 4.256 | 0    | 99  | 6   |
| 1 13 | 2100 | 4.255 | 0    | 99  | 6   |
| 1 13 | 2200 | 4.255 | 0    | 99  | 7   |
| 1 13 | 2300 | 4.255 | 0    | 99  | 7   |
| 1 13 | 2400 | 4.255 | 0    | 99  | 6   |
| 1 14 | 100  | 4.255 | 0    | 99  | 7   |
| 1 14 | 200  | 4.255 | 0    | 99  | 8   |
| 1 14 | 300  | 4.255 | 0    | 98  | 9   |
| 1 14 | 400  | 4.255 | 0    | 99  | 10  |
| 1 14 | 500  | 4.255 | 0    | 99  | 10  |
| 1 14 | 600  | 4.255 | 0    | 98  | 10  |
| 1 14 | 700  | 4.255 | 0    | 98  | 10  |
| 1 14 | 800  | 4.254 | 0    | 98  | 10  |
| 1 14 | 900  | 4.254 | 0    | 98  | 10  |
| 1 14 | 1000 | 4.254 | 0    | 98  | 11  |
| 1 14 | 1100 | 4.255 | 0    | 98  | 15  |
| 1 14 | 1200 | 4.256 | 0    | 98  | 17  |
| 1 14 | 1300 | 4.255 | 0    | 98  | 19  |

# Fracture line Profile "The Folly"

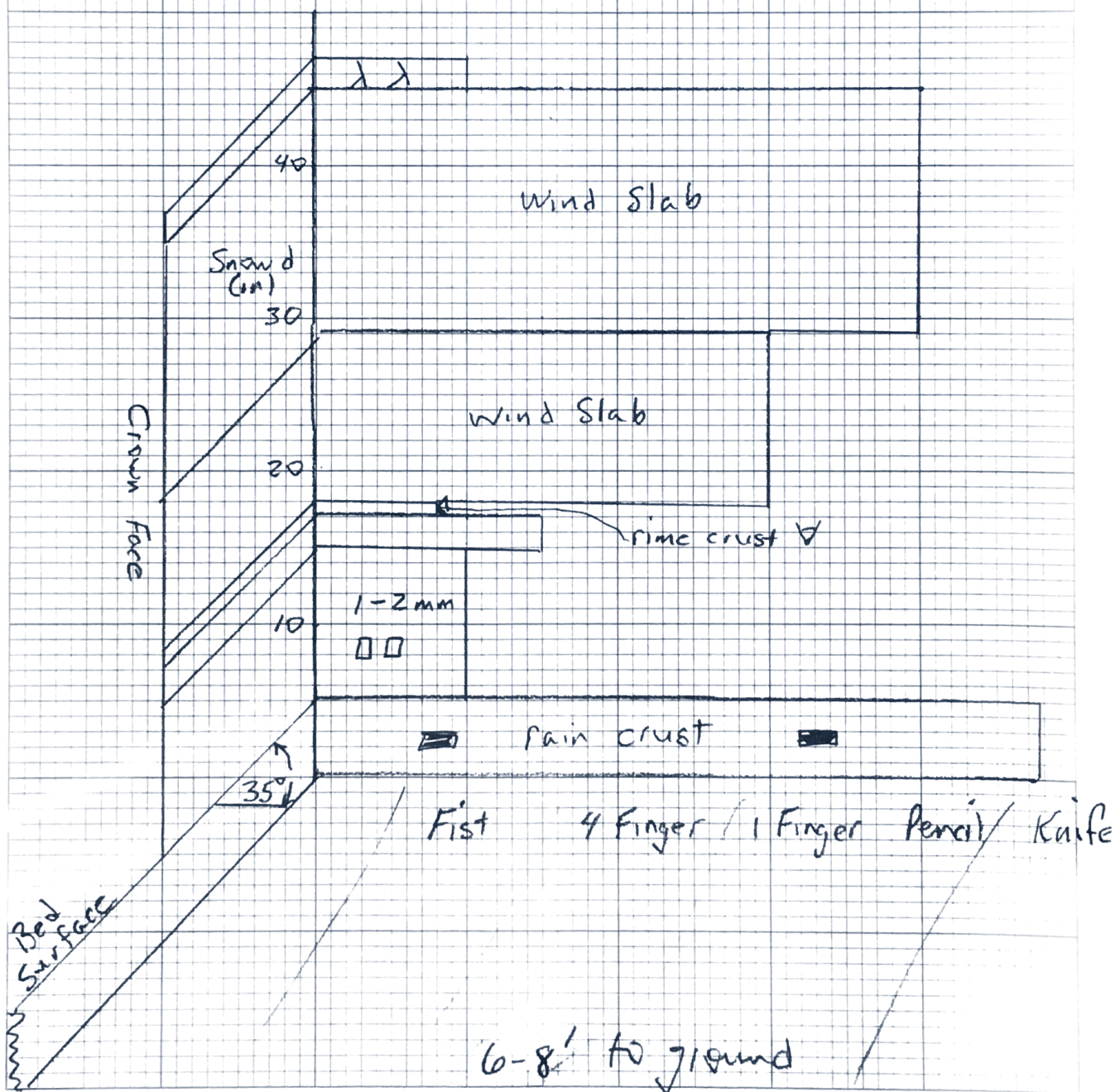
1/11/97

data collected 1/13/97 - Carol Ciliberti

graph: Mike Jenkins

9000'

Aspect 235°



46 0700

10 X 10 TO THE INCH • 7 X 10 INCHES  
KEUFFEL & ESSER CO. MADE IN U.S.A.