

Winter 2012/2013 – Persistent weak layer under a deep snowpack Challenges at Alyeska Resort

Alyeska Geography

Brief weather history

Some pictures and 2 short movies





Monies

New Yrs
Xmas

N. Face

Roundhouse

Jim's Branch

Gun 4



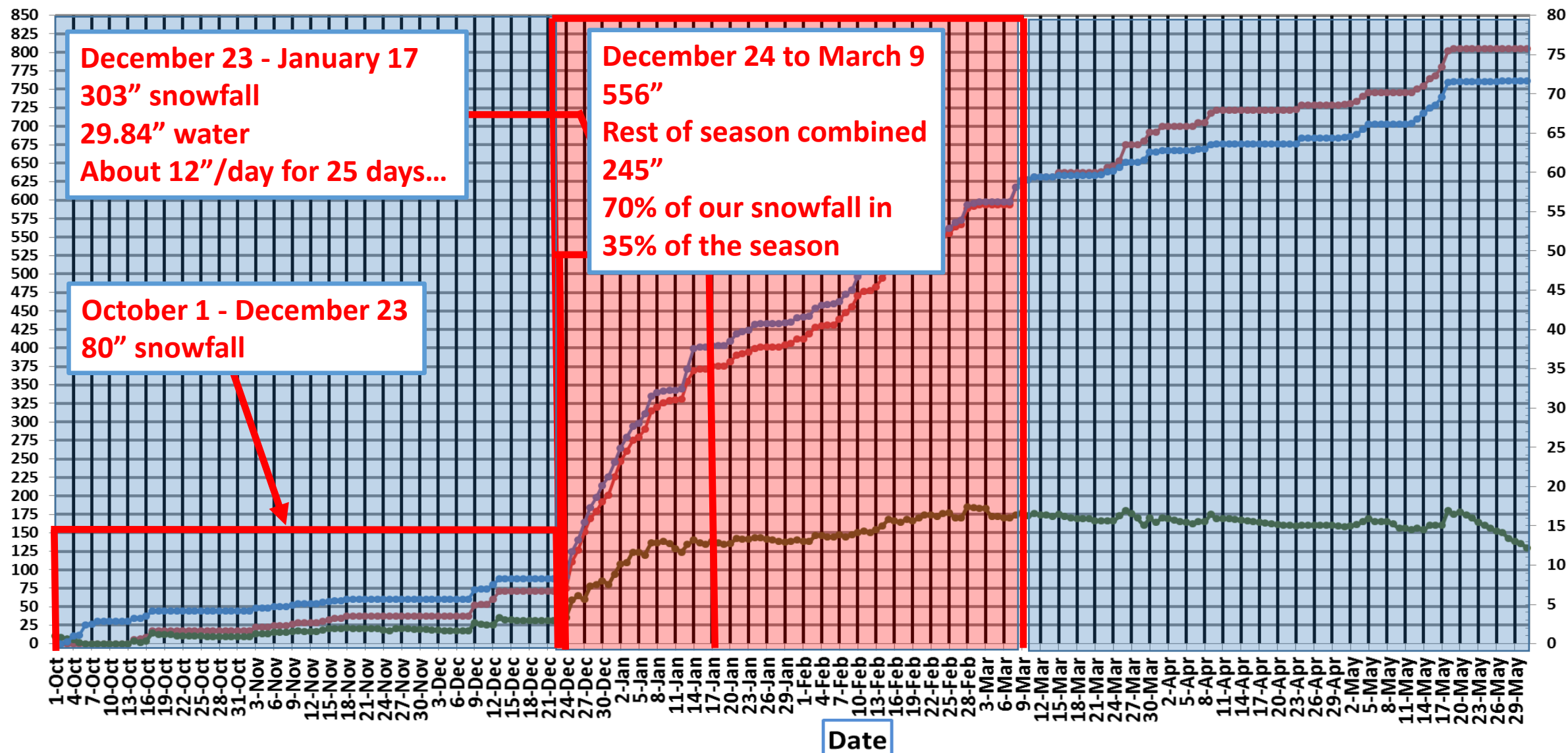
Top 6

Roundhouse

S. Face

2012-2013 Accumulated Snowfall, Accumulated Precipitation, and Total Depth At The Top Weather Station of Mt. Alyeska at 2750'

Accumulated Snowfall and Total Depth in Inches



Accumulated Precipitation in Inches

- Accumulated snowfall in inches.
- Total depth of snow on the ground in inches.
- Accumulated precipitation in inches of water equivalent.



12/9/2013 – Ashtray

Mid-December snow pit profile



← 34" over 5 days

← Dec. 7 wind

← Oct/Nov Facets

A photograph of a snowy mountain landscape. In the upper right, a tram station structure is visible, partially covered in snow. Several cables run diagonally across the frame from the top left towards the station. The ground is a vast, smooth expanse of white snow. In the lower left, a small cluster of dark, snow-covered bushes or small trees is visible. The overall scene is quiet and wintry.

**12/25/2013 – Looking from the Sundeck over
towards the Tram and Pandora's**

A blue-tinted photograph showing a snow-covered landscape. In the foreground, there are several bare, snow-laden bushes. In the middle ground, a large, rectangular concrete foundation is visible. In the background, a tall, lattice-structured tower, identified as the Tram Tower, rises into the sky. The entire scene is covered in a thick layer of snow, and the sky is a uniform light blue.

**12/25/2013 – Looking down at the Tram Tower
from the Sundeck.**



12/26/2013 – 'Thursday'



12/26/2013 – Near the bottom of the Friday gullies.



12/26/2013 – Bottom of the Friday's.

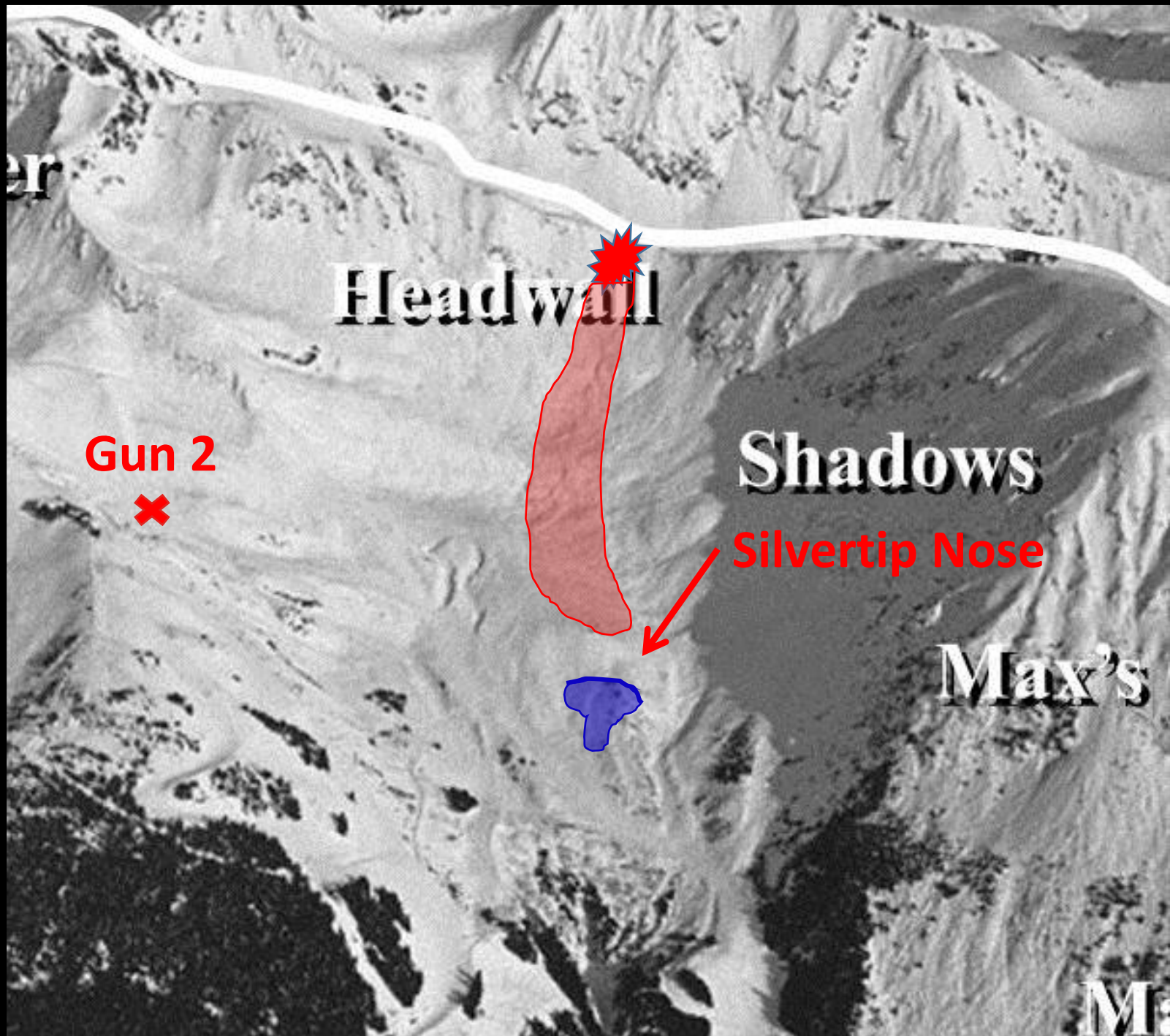


12/26/2013 – Skier's left Champagne



12/26/2013 – Behind Base of 6 Barn off the Jettway

12/26/2013
Silvertip Nose
Sympathetic trigger from
Saddle Center during gun
mission.



An aerial photograph of a snowy mountain landscape. A red arrow points from the top right towards a small cluster of dark evergreen trees on a ridge. The terrain is covered in snow with patches of low-lying vegetation and scattered trees.

Silvertip Nose

**12/26/2013 – Silvertip Nose – Sympathetic trigger
from Saddle Center during gun mission.**

December 26
Night search
Top 4



12/26/2013 – Lift Shack Left / Alder's Right



Snowboarder boot pack

Night skiing boundary









12/27/2013 – Banjo - Natural



12/27/2013 – Banjo - Natural



12/27/2013 – Banjo - Natural

Photo 1. Eddies natural avalanches



12/28/2013 – Eddie's - Natural

Fast forward a few days...

Continued to snow...

**By the evening of January 3, we were
190" into the siege – eager Holiday crowd**

**Employed some social media to pass on
some information to the skiing public**

Movie

		Temp	Temp	Temp	Inch
		24MAX	24MIN	1HR	24HR

1/3/2013	06:00	29	26	27	1.45
1/2/2013	06:00	28	26	27	1.64
1/1/2013	06:00	30	27	27	1.91
12/31/2012	06:00	32	28	28	1.10
12/30/2012	06:00	32	28	30	1.50
12/29/2012	06:00	30	28	29	1.45
12/28/2012	06:00	30	27	29	1.90
12/27/2012	06:00	29	27	28	1.92
12/26/2012	06:00	27	23	27	1.49
12/25/2012	06:00	27	19	24	3.19
12/24/2012	06:00	20	13	19	0.30
12/23/2012	06:00	19	9	15	0.00

January 10, 2013

Gun 4 Mission

Monies



1/10/2013 – Gun 4 Mission

© Heather Thamm



1/10/2013 – Gun 4 Mission

© Heather Thamm

1/10/2013 – Gun 4 Mission



© Heather Thamm



© Heather Thamm 1/14/2013 – Banjo – First ANFO on North



1/14/2013 – North Face ANFO

© Heather Thamm



1/14/2013 – North Face ANFO

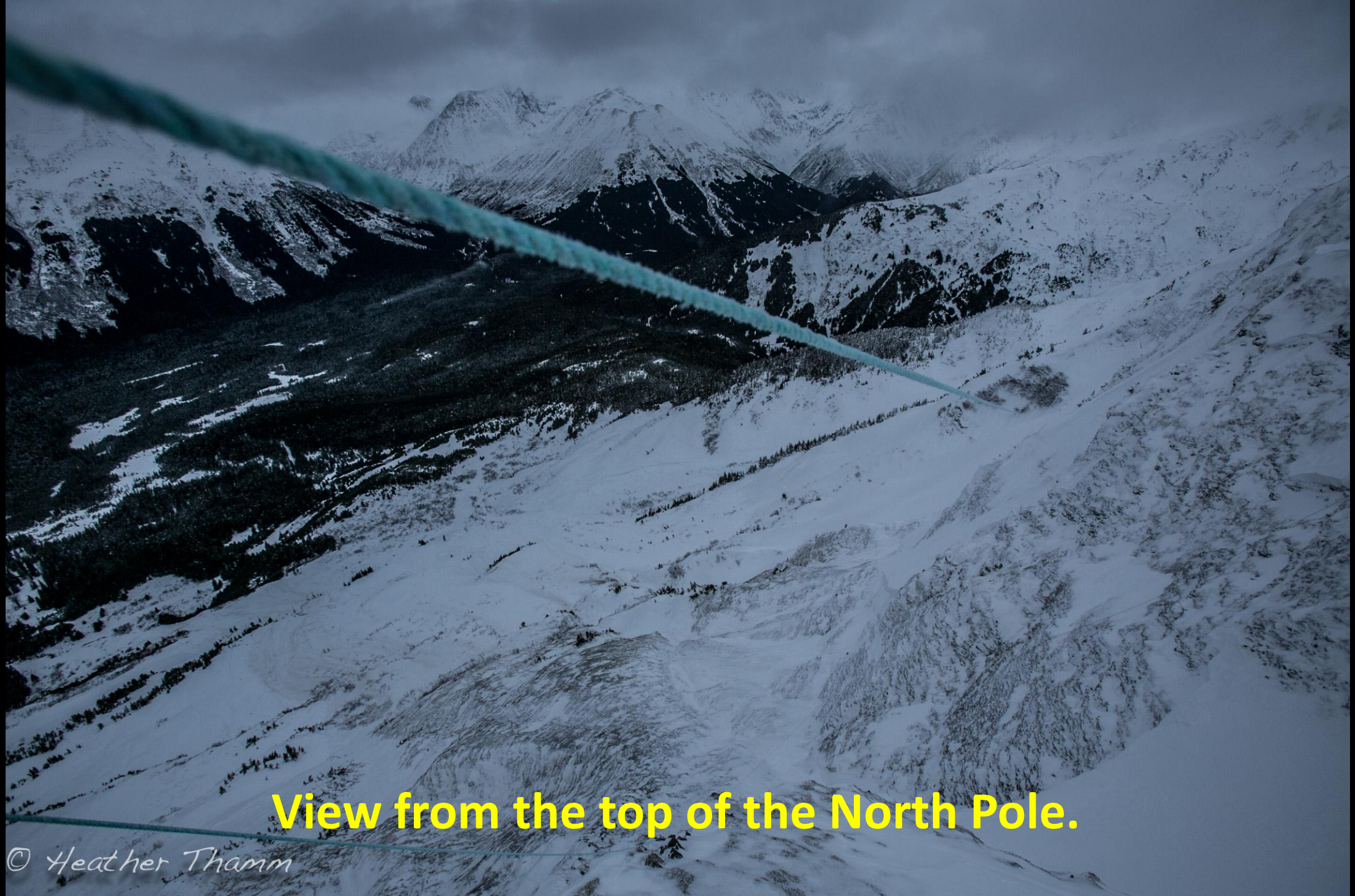
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1/14/2013 – North Face ANFO

An aerial photograph of a steep, snow-covered mountain slope. A wide, groomed ski run or snow machine path cuts diagonally across the center of the image. The surrounding terrain is rugged and covered in snow, with some dark patches of vegetation or rock visible. In the upper center, a small structure or lift tower is visible against the sky.

1/14/2013 – North Face ANFO



View from the top of the North Pole.

© Heather Thamm



View from the top of the North Pole.

© Heather Thamm



© Heather Thamm

1/14/2013 – North Face ANFO



1/15/2013 – Shot 37 and Pinky ANFO

© Heather Thamm



1/15/2013 – Shot 37 and Pinky ANFO

© Heather Thamm



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**What did all this look like
from the IR satellite?**

Thank you!



Thank you for your time.



Oct. 10, 2013: Top of the new Glacier Bowl Express and new Top WX station.