

# Explosive triggered deep slab at Big Sky

Big Sky Resort  
Northern Madison  
12/28/2022  
Code  
HS-AEc-R4-D3.5-O  
Elevation  
9800  
Aspect  
SE  
Latitude  
45.27260  
Longitude  
-111.44700  
Notes

From BSSP: "The avalanche factory that is The Wave did indeed go into production today. A 2lb. shot in skier's right Castro's Shoulder initiated an impressive [deep slab avalanche](#) that took out Castro's Shoulder through Wave South above Vuarnet Cliffs. The secondary start zones under these paths- Castro's Beard (south half) and Mike's Rodeo- also avalanched away.

The [bed surface](#) appears to be the top of the original big storm in October that forms the base of the snowpack on Lone Mountain. There is a melt/freeze crust at the top of that layer, with small grained (mostly) facets on top of the crust, with the rest of the season's snowpack sitting on that weak interface.

This [wide] [propagation](#) may be the result of the surface [wind slab](#) formed in the past few days finally tying the paths together enough to allow for such [propagation](#).

The numbers are impressive- estimated crown length of 1,100 ft., crown depth of 3-4', vertical run of 1000 ft., and linear run of 2000 ft. We classified the [slide](#) as HS, AE (2lb.), R4/D3.5, O/G. Unfortunately, conditions rendered good photos difficult. All the paths that avalanched have been shot repeatedly, almost daily, all season long...."

Number of slides

1

Number caught

0

Number buried

0

Avalanche Type

Hard slab avalanche

Trigger

An explosive thrown or placed on or under the snow surface by hand

Trigger Modifier

c-A controlled or intentional release by the indicated trigger

R size

4

D size

3.5

Bed Surface

O - Old snow

Problem Type

Persistent Weak Layer

Slab Thickness

42.0 inches

Vertical Fall

1000ft

Slab Width

1100.00ft

Weak Layer Grain type

Faceted Crystals

Images

[Explosive triggered very large deep slab at Big Sky](#)

Slab Thickness units

inches

Single / Multiple / Red Flag

Single Avalanche

Advisory Year

[22-23](#)