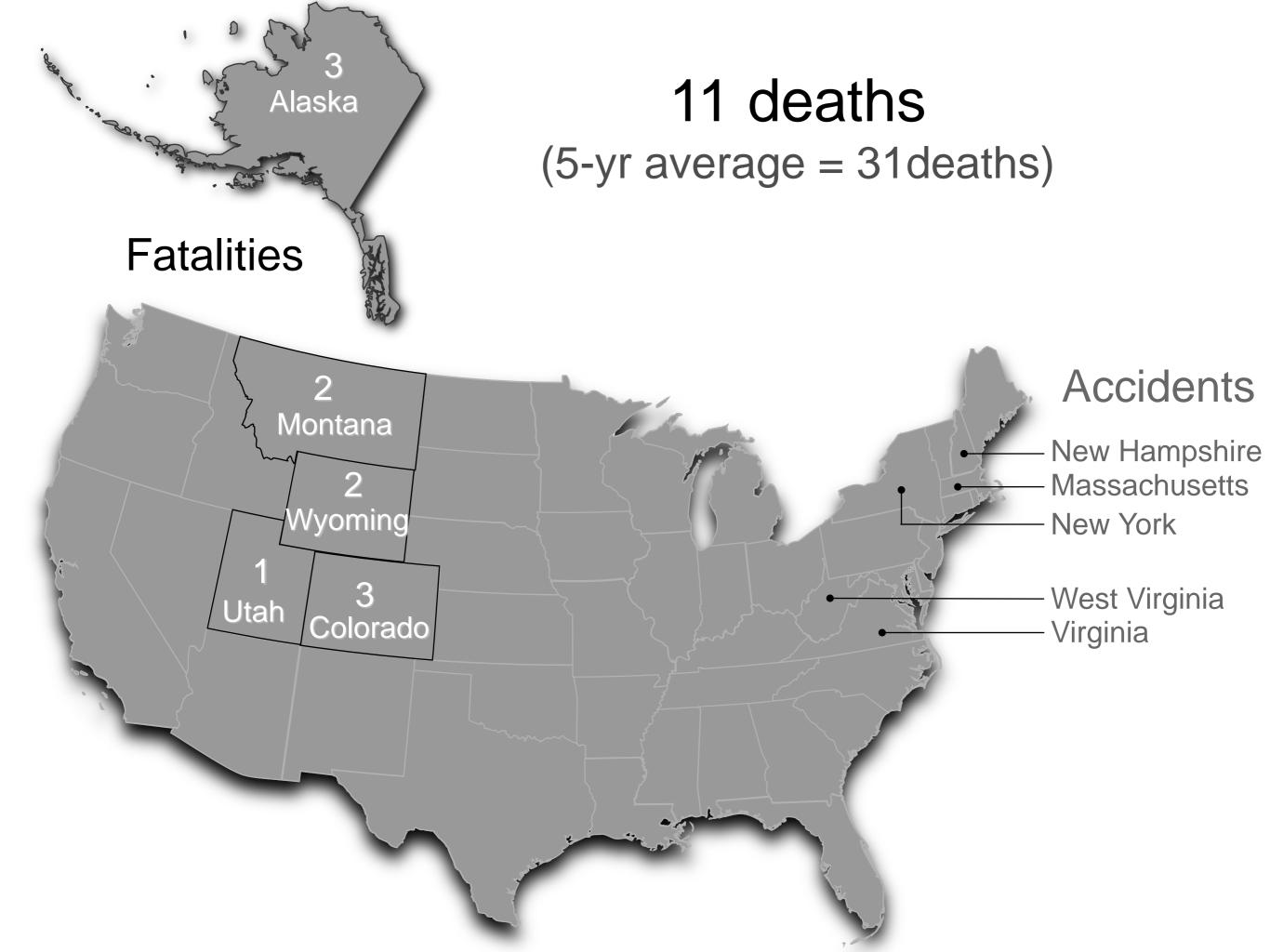
US Avalanche Accidents 2014-15

Dale Atkins



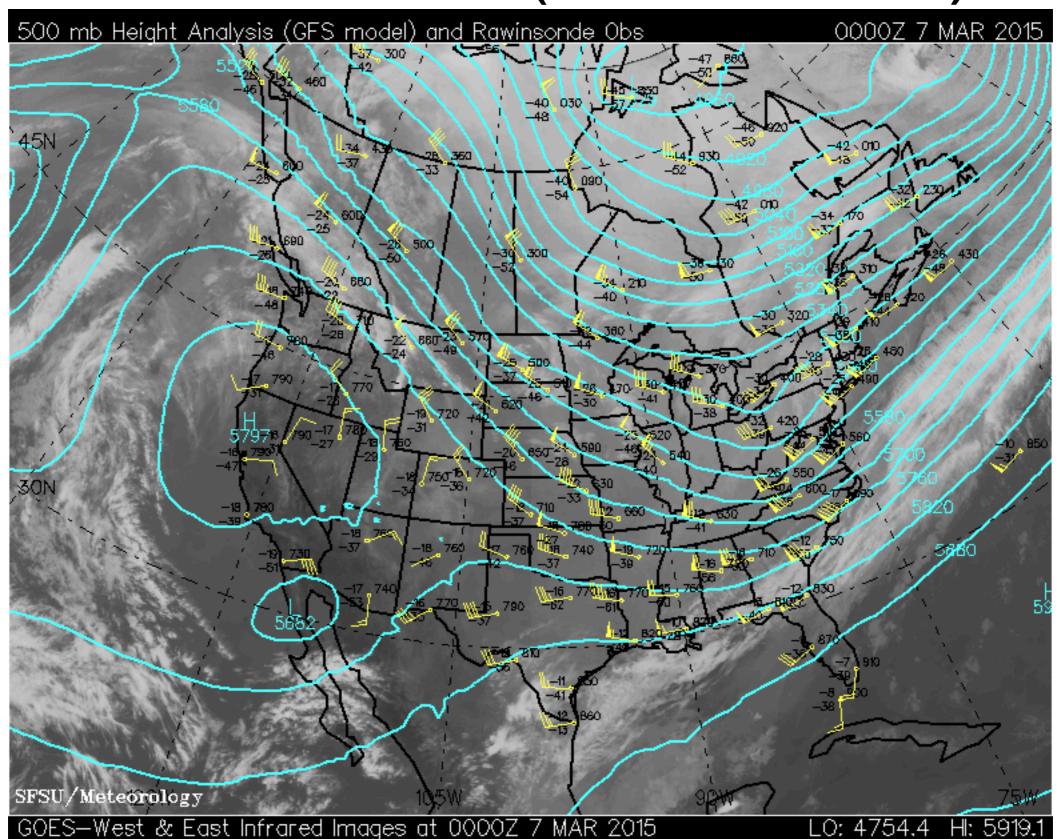


What happened?

Unusual conditions resulted in unusual avalanches.

Dry and warm in the west. Cold and snowy in the east.

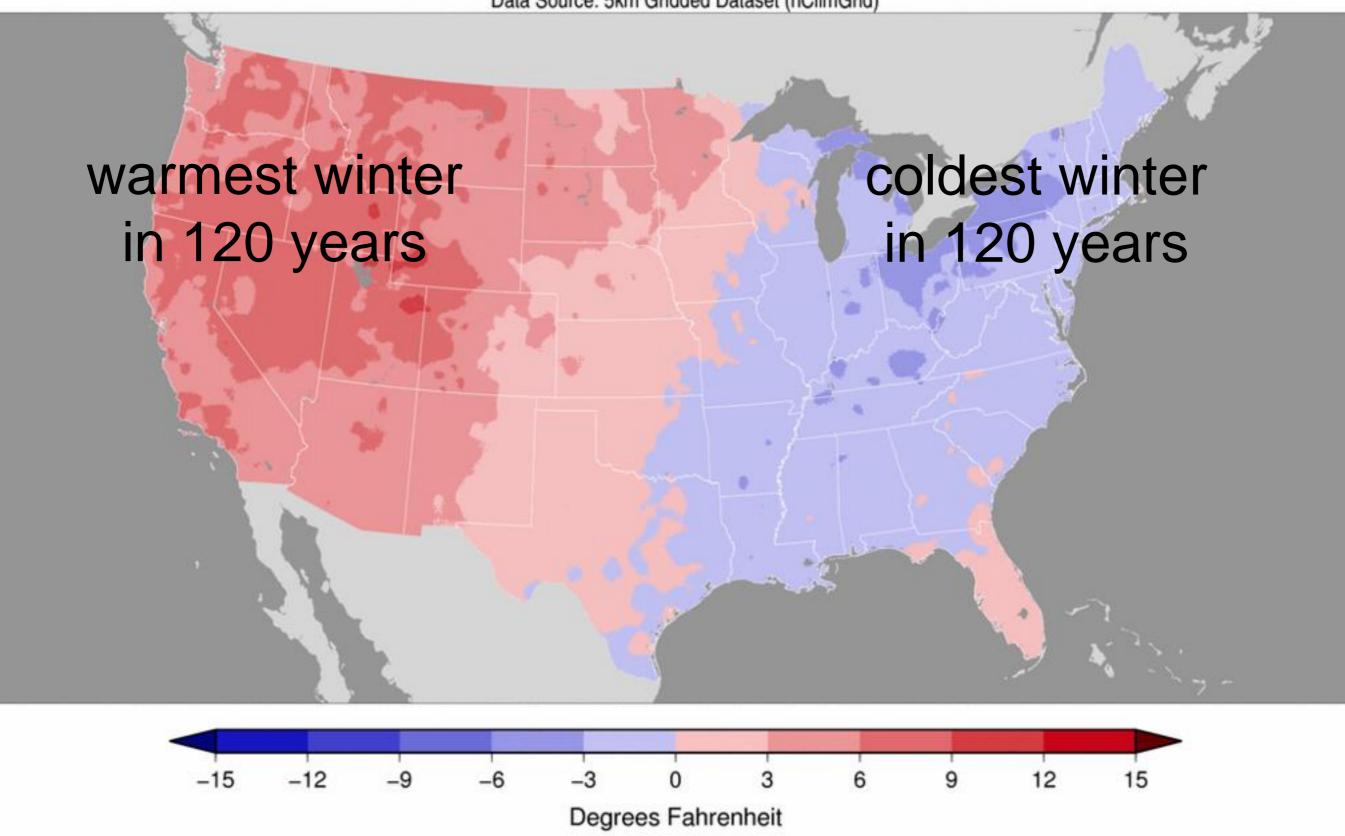
Jet Stream (Feb & Mar)



Average Temperature Departures Winter 2014/15



Base Period: 20th Century Data Source: 5km Gridded Dataset (nClimGrid)

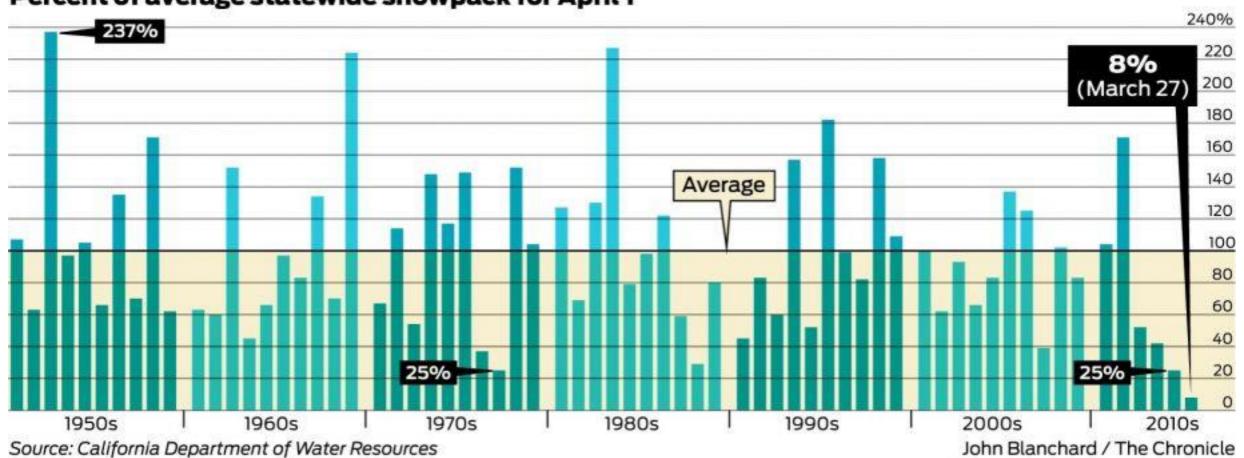


California

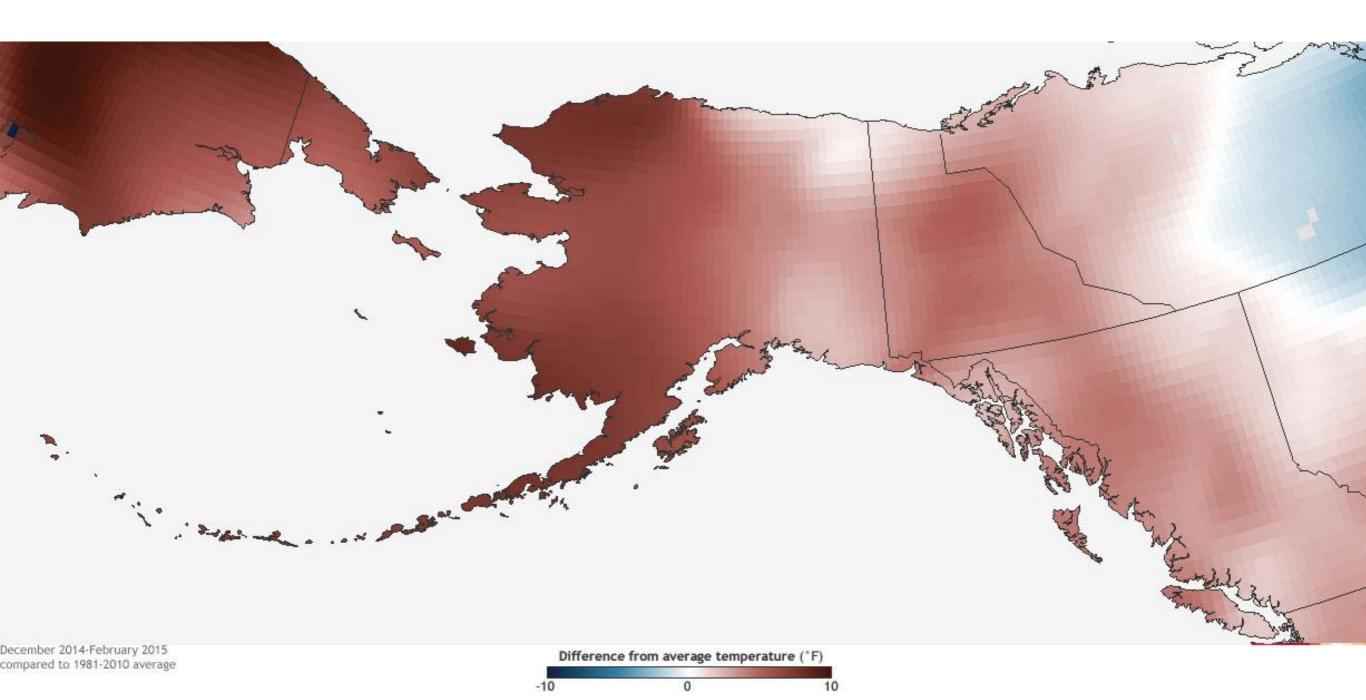
Low snow level

Reports from sensors in the Sierra show the snowpack for April to be the lowest recorded since 1950.

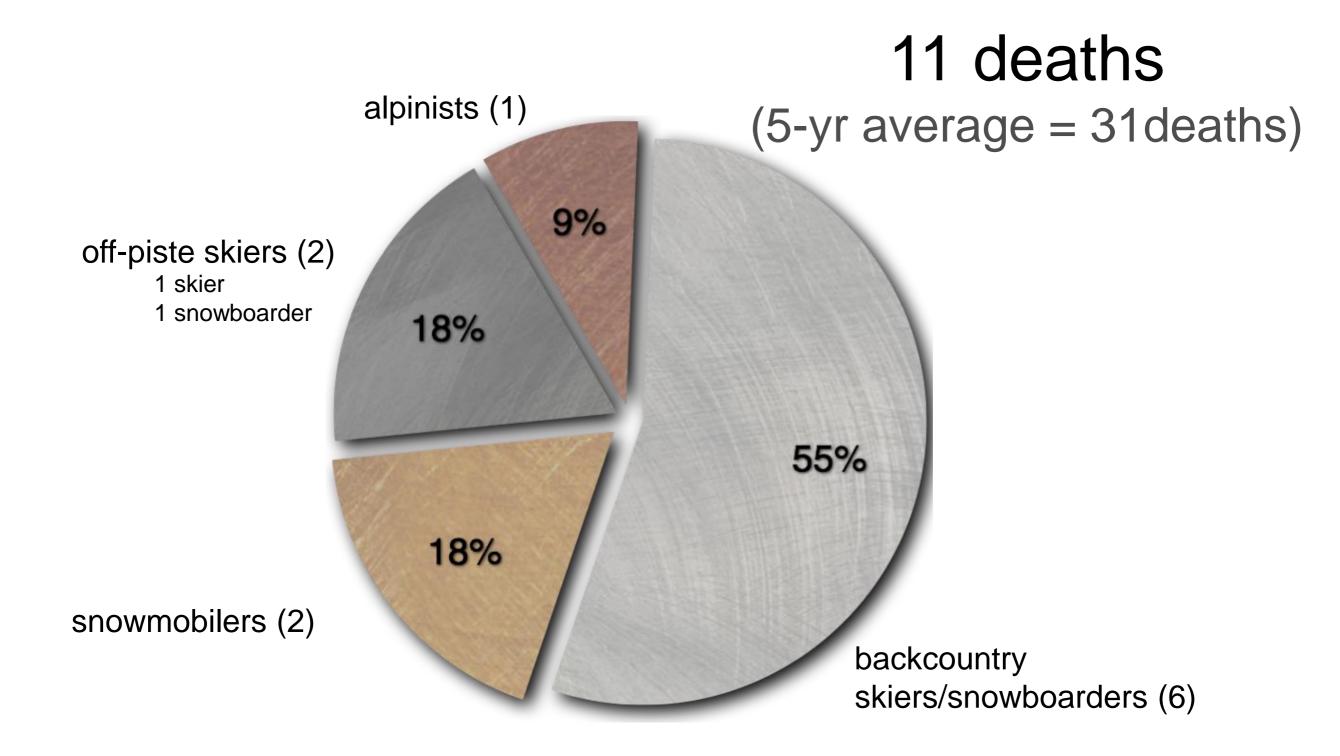
Percent of average statewide snowpack for April 1



Alaska



Who Got Killed



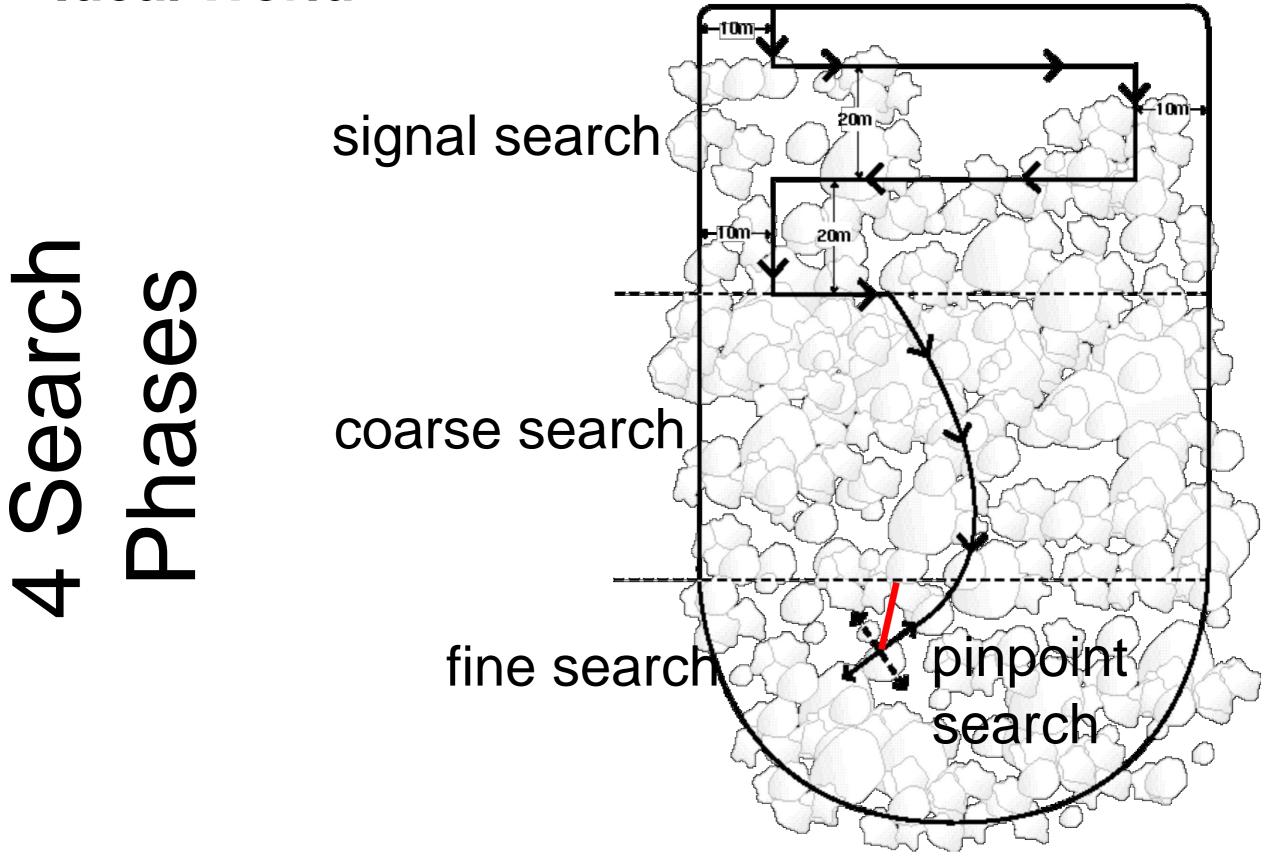
The Accidents

date	location	state	description	rescue method	rescue technique
Nov. 26	Cooke City	Montana	1 snowmobiler caught, buried and killed	small party (companion)	transceiver
Dec. 6	Delta Range	Alaska	2 backcountry skiers caught, 1 buried and killed	small party (companion)	hand out
Dec. 31	Bakerville, Mt Kelso	Colorado	1 climber caught, buried and killed	small party / professional	transceiver*
Jan. 6	Silverton	Colorado	1 backcountry skier caught, buried and killed	small party / professional	transceiver
Feb. 23	Aspen Mountain	Colorado	1 off-piste skier caught, buried and killed	professional	transceiver**
Mar. 4	Snowbasin	Utah	1 off-piste snowboarder	professional	dog
Mar. 15	Cantwell	Alaska	1 snowmobiler caught, buried and killed ‡	small party / professional	transceiver***
Apr. 1	Wrangel-St. Elias National Park	Alaska	1 backcountry (alpinist) skier caught and killed §	professional	not buried
Apr. 11	Big Sky	Montana	1 backcountry (alpinist) skier caught and killed	small party (companion)	not buried
May 17	Grand Teton National Park	Wyoming	2 backcountry (alpinist) skiers caught and killed	small party /professional	not buried

What Happened?

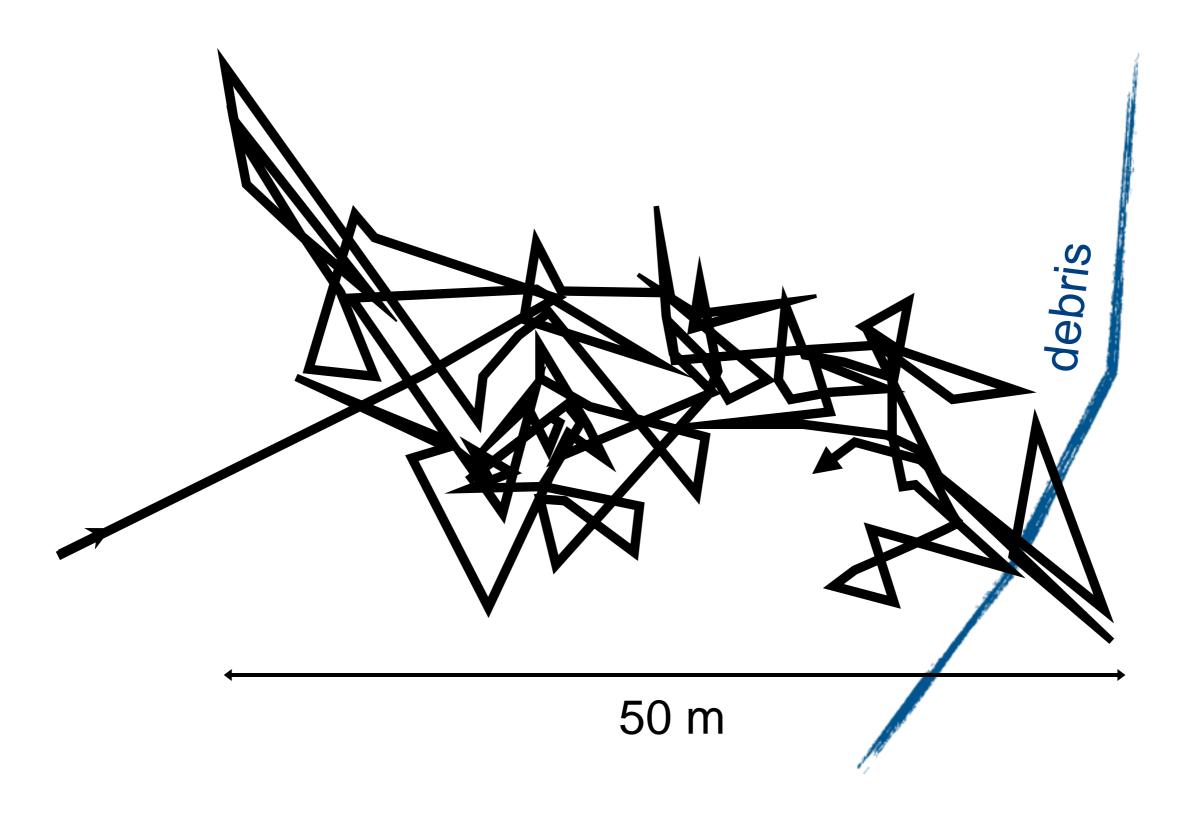
date	location	state	description	rescue method	rescue technique
			ert" sportspeople	small party (companion)	transceiver
Dec 6	Delta Range	"novi	ce" sportspeople	small party (companion)	hand out
De 5 ³¹ C	Pakgrville, Mt Kelso	"adv	anced" avalanche t	raining	transceiver*
Jan. 6	Silverton of 11	Colorado		small party /	transceiver
Feb. 23	Aspen Mountain	Colorado	1 off-piste skier caught, buried and killed	professional	transceiver**
Mar. 4	Snowbasin	Utah	1 off-piste snowboarder	professional	dog
Mar. 15	Cantwell	Alaska	air bag — not deplo	yed mall party / professional	transceiver***
Ap 3 C	Wrangel-St. Elias National Park	com	oanions could not u	ıse trar	nsceivers
Apr. 11	Big Sky	Montana	1 backcountry (alpinist) skier caught and killed	small party (companion)	not buried
May 17	Grand Teton National Park	Wyoming	2 backcountry (alpinist) skiers caught and killed	small party /professional	not buried

Ideal World



Real World

Transceiver search (search time = 20 min)



The Accidents

date	location	state	description	rescue method	rescue technique
lov. 26	Cooke City	Montana	1 snowmobiler caught, buried and killed	small party (companion)	transceiver
				small party (companion)	hand out
		small party / professional	transceiver*		
we need to improve awareness to recreationalists about professional rescue.				small party / professional	transceiver
				professional	transceiver**
				professional	dog
				small party / professional	transceiver***
				professional	not buried
				small party	not buried

				(companion)	
,	Grand Teton National Park	Wyoming	2 backcountry (alpinist) skiers caught and killed	small party /professional	not buried