

A person is silhouetted against a bright, golden sunrise on a snowy mountain slope. The sun is low on the horizon, creating a warm glow over a vast sea of clouds that stretches across the valley below. The skier is positioned on the right side of the frame, moving down the slope. The overall scene is serene and majestic, capturing a moment of quiet activity in a high-altitude environment.

Mountain Safety Collective

AGM 12 October 2021



Welcome

Acknowledgment of Country

Housekeeping



Confirmation of previous AGM minutes

*Minutes provided with registration email

Motion: to accept the minutes of the last AGM

Business arising from previous minutes



President's Report



2021 Season Report Summary

June

- ABC News Report / Article
- Parks Victoria QR Code

July

- Forecasting App / Backend Developments
- Avalanche Cycle BOM AWS Challenges and Lessons Learned
- ATC - Avalanche Training Centre
- Covid - Implications for Vic and NSW

August

- Digital Field Observation Assets
- Operational Improvements
- Field Teams Communication

September

- Spring - Ambassadors and Sponsors



June

- ❑ ABC News Report / Article
- ❑ Parks Victoria QR Code



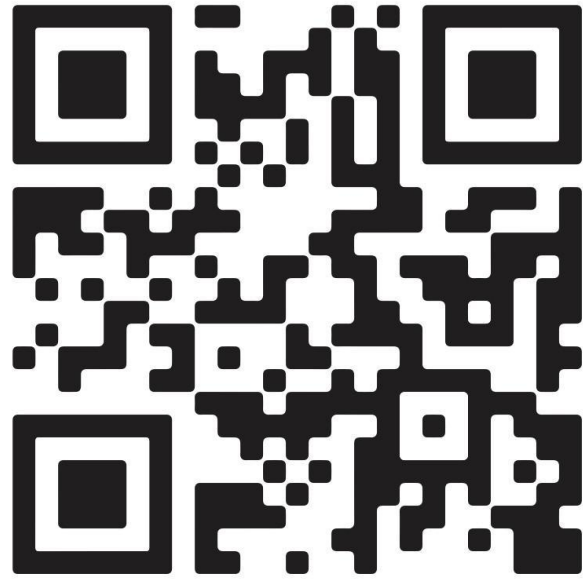
Out of bounds

Avalanches? In Australia? They are real and they can be deadly. But a group of back-country adventurers is trying to keep skiers, boarders and bushwalkers safe when they head out into the alpine wilderness.

By [Melissa Clarke](#)



DAILY BACKCOUNTRY CONDITIONS REPORT



for todays backcountry conditions scan here



Total Scans

224 / 210 Unique



Medium

[Add info](#)

Print Run

[Add info](#)

Campaign Start

May 28, 2021

Campaign End

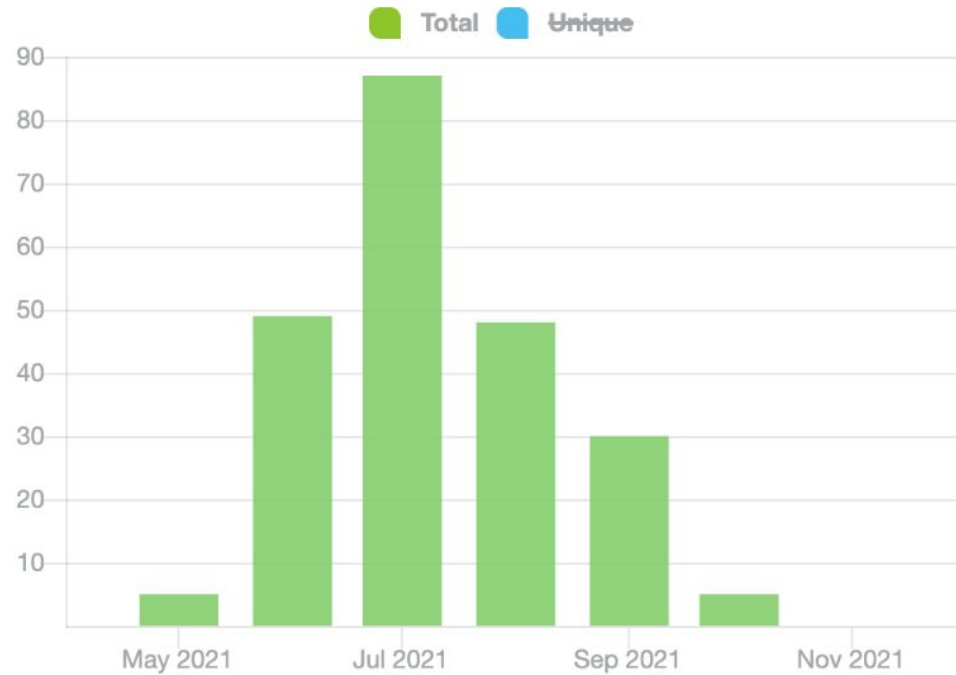
[Add info](#)

May 28, 2021 - Oct 10, 2021

Month

Options

SCANS OVER TIME



SCANS BY OPERATING SYSTEM

OS	Scans	%
iOS	135	60.27%
AndroidOS	136	37.95%
Linux	1	0.45%
OS X	1	0.45%

[Show full statistics](#)



July

- Operational Improvements
- Field Teams Communication
- Forecasting App / Backend Developments
- ATC - Avalanche Training Centre
- Case Study - Independence Day Avalanche Cycle



Operational Improvements

Office

Record Keeping in the Cloud

- ❑ Am form
- ❑ PM form
- ❑ MSC National Database
 - ❑ Weather/Snowpack/Avalanches

Field Team Communications

- ❑ Victoria Observations Team
- ❑ NSW Observations Team



Australian Mountain Hazards

This service exists to help inform backcountry travellers of the current and relevant hazards they may encounter in the Australian Alpine region during winter. We borrow from other countries' best practices but have had to invent a 'fit for purpose model' for our unique mountains conditions.

Key Concepts: Any effective alpine hazard service has four key components. It must be timely, relevant, concise and trusted.

Timely

The risk management standard (ISO 31000) for a service such as this mandates daily reporting. Given the dynamic nature of the environment we are reporting on, out of date advice is a danger in itself. Always check the date of issue for the report you are reading to ensure you won't fall foul of out of date reports.

Relevant

Our danger ratings have been developed from both extensive user group and international specialist consultation. Our service acknowledges that although elsewhere in the world avalanche is a primary hazard of concern, here in Australia this is not the case. Exposure, visibility, surface conditions and avalanche should all be considered for successful decision making.

Concise

We have three tiers of information from 'light lift' too 'deep dive' which follow in this order, **Danger Rating, Hazards** and **Details**.



Danger Rating will be explained below. The **Hazards** section is where to find specific information about the aspect, elevation and severity of a hazard displayed in handy infographic form. Then the **Details** section is the more in depth detail regarding the hazards, snowpack and weather. We also provide a confidence rating from strong to low which reflects how well we know what we know or how much we know we don't know.



Fig 1.1

Trusted

The characteristics of trustworthy advice has always been transparency and accountability. MSC takes this very seriously having developed this service over 6 years. Our current Program Director holds a CAA Avalanche Operations Level 3 and has years of forecasting experience. He's working with a cohort of professional field observers across Vic and NSW who bring probably a combined century of local experience in each region (CAA Operations Level 1 or equivalent). You can find out about most of us here. The field operations team is growing fast. If you are in Australia and on a CAA Ops pathway shout out [here](#).

MSC is funded by Parks Victoria, Outdoor Victoria and our 600+ members to whom we are accountable.

Forecasting App/Backend Developments

Australian Mountain Hazard Categories.

Most will be well familiar with all this if you have spent any time in the hills here. Alas, if you have not... welcome to the Australian Backcountry.

Weather Conditions

 **Favorable Outlook** **0**

 **Changeable Outlook** **1**

 **Exposure Risk** **2**

 **Blizzard** **3**

As shown in figure 1.1 exposure leads to the greatest proportion of rescues in the Australian Alpine. Hypothermia is the associated condition. Exposure often compounds other incidents as a considerable contributing factor. The wind chill factor is the measure we use and the increment thresholds are shown below.

Visibility

 **Good Visibility** **0**

 **Poor Visibility** **1**

 **Whiteout** **3**

Poor visibility can quickly confuse a party's sense of direction and gauge of distance travelled leading to navigational error and just straight old 'getting lost'. We use three increments: Good Visibility, Poor Visibility (< 1km), and Whiteout (<50m).

Note: The numbers in the circles on the right are the 'danger score' that MSC attributes to all the hazards we observe. These will be explained below.

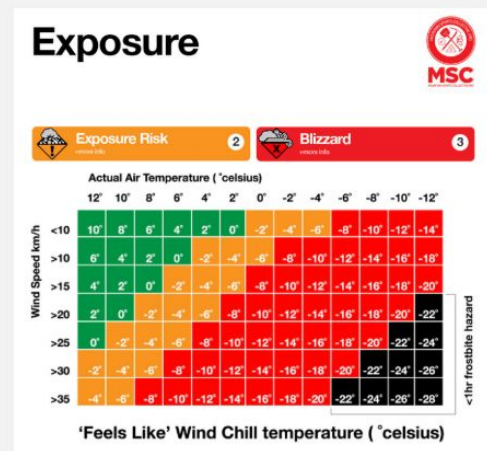
Surface Conditions

 **Shallow Cover** **2**

 **Localized Ice** **2**

 **Widespread Ice Danger** **3**

What we lack in 'powder days' in Australia we sure make up for in bulletproof ice. This could consist of rime, frozen rain or a melt / freeze crust. All nasty surface conditions that led to serious injury and fatalities. Not to be underestimated and can be managed with the effective use of crampons and ice axe.



Avalanche



Low Avalanche Danger 0

We use the international standard for avalanche hazard risk as shown in the table below. However we don't use extreme.

Low: Generally safe conditions. Natural and human triggered avalanches are unlikely. Small avalanches in isolated areas may occur.



Moderate Avalanche Danger 2

Moderate: Heightened avalanche conditions. Natural avalanches are unlikely and human triggered avalanches are possible. Small avalanches can occur in specific areas; larger avalanches may occur in isolated areas.







Considerable Avalanche Danger 4

Considerable: Dangerous avalanche conditions. Natural avalanches are possible and human triggered avalanches are likely. Small avalanches can be found in many areas; large avalanches in specific areas and very large avalanches in isolated areas.



High Avalanche Danger 6

High: Very dangerous avalanche conditions. Natural avalanches are likely and human triggered avalanches are very likely. Large avalanches can occur in many areas; very large avalanches in specific areas.

Risk Level	Snow Stability	Icon	Avalanche Risk
1 – Low	Snow is generally very stable.		Avalanches are unlikely except when heavy loads are applied on a few extreme steep slopes. Any spontaneous avalanches will be minor sloughs. In general, safe conditions.
2 – Moderate	On some steep slopes the snow is only moderately stable. Elsewhere it is very stable.		Avalanches may be triggered when heavy loads are applied, especially on a few generally identified steep slopes. Large spontaneous avalanches are not expected.
3 – Considerable	On many steep slopes the snow is only moderately or weakly stable.		Avalanches may be triggered on many slopes even if only light loads are applied. On some slopes, medium or even fairly large spontaneous avalanches may occur.
4 – High	On most steep slopes the snow is not very stable.		Avalanches are likely to be triggered on many slopes even if only light loads are applied. In some places, many medium or sometimes large spontaneous avalanches are likely.

Danger Ratings



Usual Caution: As they say, 'hope for the best, plan for the worst'. This is usual caution. It is far from reckless abandon. It is the knowledge that even on a perfect clear day a snow bridge can collapse, or you could drop a ski and have it run away. Standard safety precautions are still required.



Extra Caution: Identified hazards exist. It is important to take great care to stay safe. It is your responsibility to confirm or refute the hazards and take the necessary steps to avoid or mitigate them in your travels. The hazard details can be found in the Hazards tab.



Travel Not Recommended: Travel in the kinds of conditions that conspire under 'not recommended' are not only unpleasant but dangerous, not just for you and your party, but also for would-be rescuers.

Danger Scores - How it works

We use the danger score or observed hazards from our observations to aggregate a 'day score' which is represented graphically in the **Danger Rating** tab. This is the 'light lift - at a glance' summary of what MSC is reporting. It is really simple and you can use it too. Add the totals for each category based on what you see from the hut or tent door and work the numbers. We have tested this for over 100 days of forecasting and have found the metric to be a reasonably robust guidance measure.

Important Note:

For those familiar with equivalent alpine hazard services abroad, General Hazards have different icons from Avalanche Danger. The hazard is a general summary, avalanche risk is specific.

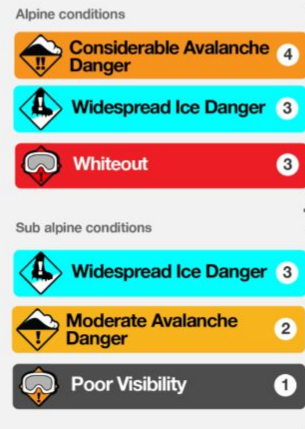


Hazards



Avalanche Danger

Hazard score range (0-6)

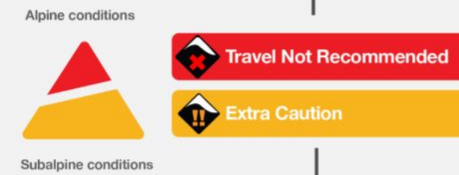


Hazard Score Total

Day Score intervals



Alpine Hazard Summary



[Create a report](#)[Home](#)[Reports](#)[Embedded Report](#)[Manage Users](#)[Admin](#)

Report Id	Date	Region	Status	Action
243	September 23, 2021	Dividing Range	Unpublished	Edit Delete View
242	September 22, 2021	Dividing Range	Published	Edit Delete View
241	September 21, 2021	Dividing Range	Published	Edit Delete View
240	September 20, 2021	Dividing Range	Published	Edit Delete View
239	September 19, 2021	Dividing Range	Published	Edit Delete View
238	September 18, 2021	Dividing Range	Published	Edit Delete View
232	September 17, 2021	Dividing Range	Published	Edit Delete View
231	September 16, 2021	Dividing Range	Published	Edit Delete View
229	September 16, 2021	Main range	Published	Edit Delete View
228	September 15, 2021	Dividing Range	Published	Edit Delete View

- Home
- Reports
- Embedded Report
- Manage Users
- Admin

Danger rating

Hazard Alpine Reset

Weather conditions

- Favourable Outlook 0
- Changeable Outlook 1
- Exposure Risk 2
- Blizzard 3

Visibility

- Good Visibility 0
- Poor Visibility 1
- Whiteout 3

Surface conditions

- Shallow Cover 2
- Localized Ice 2
- Widespread Ice Danger 3

Avalanche danger

- Low Avalanche Danger 0
- Moderate Avalanche Danger 2
- Considerable Avalanche Danger 4
- High Avalanche Danger 6
- No Avalanche Assessment

Travel and terrain advice

Post earthquake we 'stepped out', not sure what we would find. Plenty of fallen rock debris strewn on the slopes and the glide cracks had a distinct gape to them although we don't monitor them rigorously. Everything else held up. No sign of cornice collapse or the wet slab concern we held. Avalanche danger low. Widespread ice in the alpine first up, that should soften reasonably quickly on the way to a top of 4. Visibility variable with valley cloud making it to ridge top on the weather side of the range at subalpine

Hazard Subalpine Reset

Weather conditions

- Favourable Outlook 0
- Changeable Outlook 1
- Exposure Risk 2
- Blizzard 3

Visibility

- Good Visibility 0
- Poor Visibility 1
- Whiteout 3

Surface conditions

- Shallow Cover 2
- Localized Ice 2
- Widespread Ice Danger 3

Avalanche danger

- Low Avalanche Danger 0
- Moderate Avalanche Danger 2
- Considerable Avalanche Danger 4
- High Avalanche Danger 6
- No Avalanche Assessment

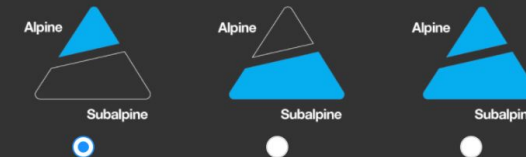
Hazards

Primary Hazard

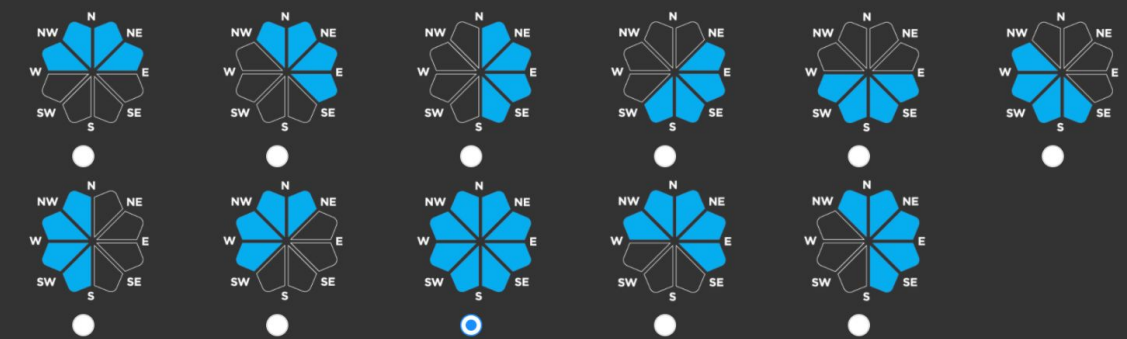
- Widespread ice danger - Alpine

Avalanche danger

Hazard elevation



Hazard aspect



Summary

Watch out on steep aspects south and east early on as the surface is hard and slick, warming and softening quickly as the day warms and the solar takes effect. A fall on this will be hard to arrest. Wait for the softening....



Regional Outlook

Issued: 20/09/2021
 Prepared By: Simon Murray and Craig Sheppard
 Confidence: Moderate

Blizzard conditions today as the range is gripped by a vigorous low. This will persist through today and most of tomorrow. Winds strong, Westerly shifting to South Westerly over the next 24hrs. Snow is starting to fall now as the temp dips to -0.2.

Danger Rating	Hazards	Details
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Alpine

Travel Not Recommended

Travel Not Recommended

Subalpine

Attention: Australian Mountain Hazards
 MSC provides a broad picture of mountain hazards including exposure, visibility, surface and avalanche hazards. This advice is an aggregate of these observed hazards. *Not solely avalanche. Find out more here*

Travel and Terrain advice

Really challenging conditions out there today. Refrozen hard snow with now a skim of fresh snow that will rapidly accumulate and close the daylight hours at an avalanche danger at moderate on its way to considerable. The situation is developing so you will need to monitor the conditions closely, looking out for developing windslabs on aspects South through to East. The distribution of bonding characteristics of new and old snow will be highly variable across different locations and elevations. Check this interface yourself if venturing into avalanche terrain over the course of the day. Blizzard conditions. Travel is not recommended.

Alpine Conditions

Blizzard

About +

Whiteout

About +

Moderate Avalanche Danger

Find out more >

Localized Ice

About +

Subalpine Conditions

Blizzard

About +

Poor Visibility

About +

Shallow Cover

About +

Moderate Avalanche Danger

Find out more >



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More Details

Hazard summary

Localised ice in the alpine above 2100m on shady aspects. Shallow conditions at lower elevations. Beware snow bridges across creeks and rivers.

Snowpack summary

Dry snow in the alpine on shady aspects above 2100m. Otherwise, widespread surface crust on all aspects that is very supportive to walking and skiing first thing. The crust is breaking down at lower elevations and on solar aspects. Well settled snowpack under the surface crust.

Weather summary

Partly cloudy. Patchy morning fog. Winds northerly 15 to 20 km/h turning northwesterly 15 to 25 km/h in the morning.

Forecast confidence

High Moderate Low

Back

Save

ALPINE NATIONAL PARK

Dividing Range

North East Victoria

Bogong
Feathertop
Fainters
Falls Creek
Hotham



Daily forecasts have concluded. Spring Conditions: [Read description below](#)

KOSCIUSZKO NATIONAL PARK

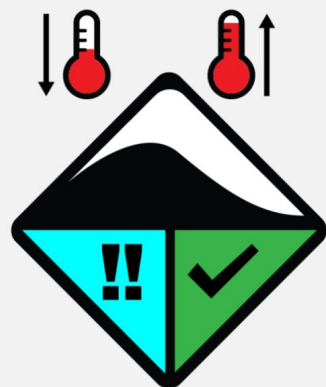
Main Range

New South Wales

Kosciuszko
Townsend
Twynam
Tate
Carruthers
Rams Head



Daily forecasts have concluded. Spring Conditions: [Read description below](#)



Surface Hazard



Avalanche Hazard

Spring Conditions: The hazards become quite variable and can range from low to high in any given day depending on the amount of refreeze. Timing is very important. Generally speaking, if you are too early and the surface crust is hard and icy, a significant slide hazard will exist. If you are too late, and the day warms up significantly, wet snow avalanches can become a concern. Lastly, even though it is spring, winter like storms can roll through and there can be the potential of wind slabs and new cornice development.





MSC
MOUNTAIN SAFETY COLLECTIVE



Traffic

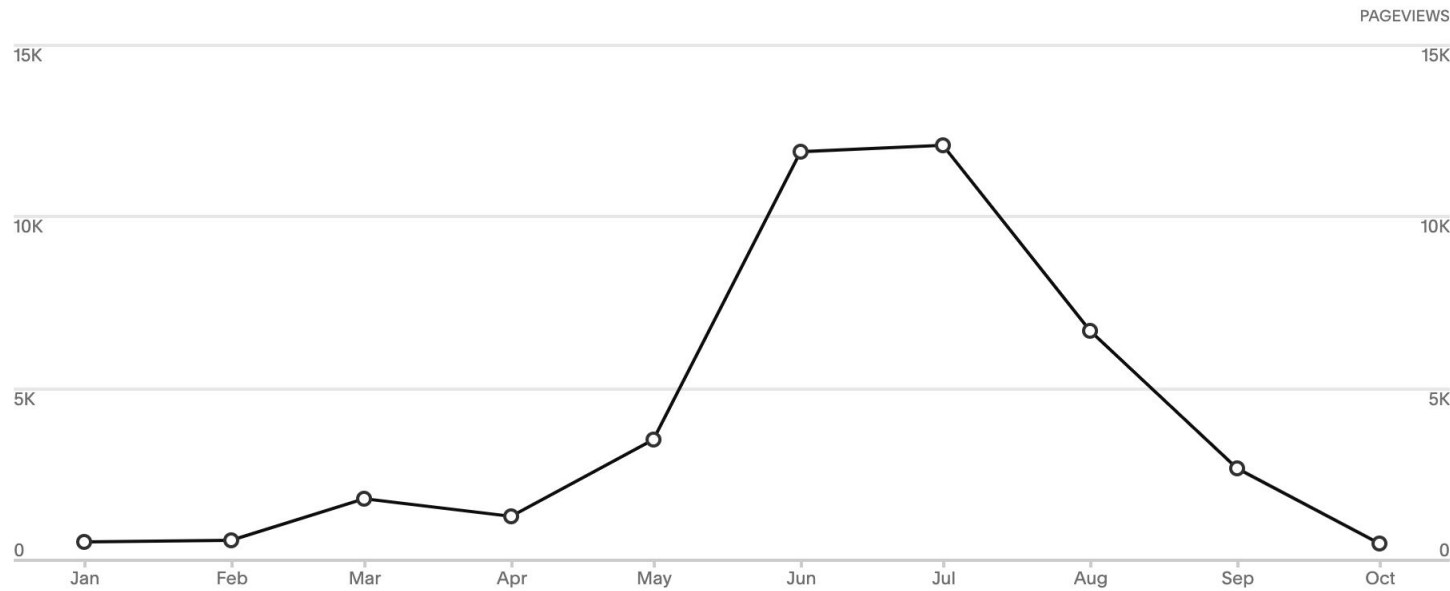
Year To Date ▼ \$ AUD

<u>VISITS</u> 14K +10% yr/yr	<u>BOUNCE RATE</u> 45.86% -3% yr/yr	<u>UNIQUE VISITORS</u> 8.5K +9% yr/yr	<u>PAGEVIEWS</u> 41K +8% yr/yr
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Pageviews

Jan 1–Oct 11, 2021 • 41,335 Total +8% yr/yr

Monthly ▼



Traffic Sources

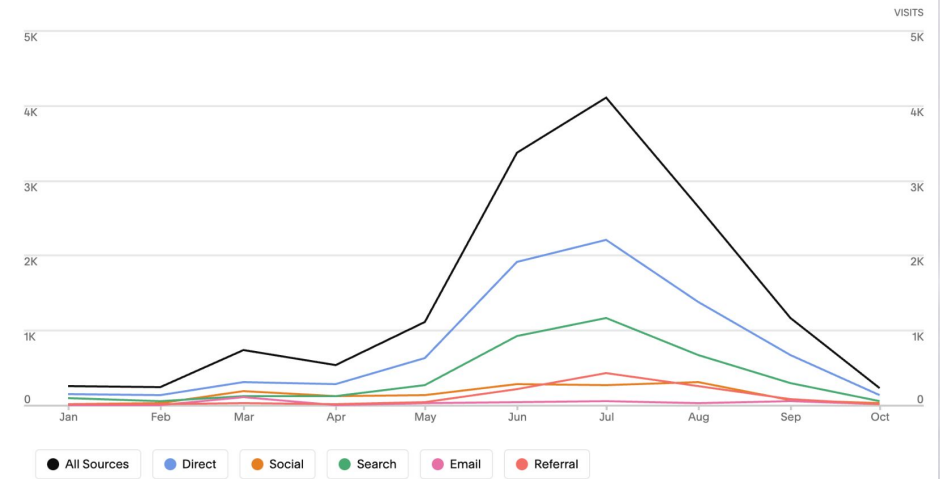
Year To Date ▼ \$ AUD

VISITS	REVENUE	ORDERS	CONV. RATE	AOV	RPV
14K	\$20K	384	2.53%	\$52	\$1.4

Visits

Jan 1–Oct 11, 2021 • 14,387 Total

Monthly ▼



Source	Visits	Revenue	Orders	Conv. Rate	AOV	RPV
Direct	7,788 (54.1%)	\$7,511.25 (37.4%)	144 (37.5%)	1.7%	\$52.16	\$0.96
Search	3,749 (26.1%)	\$9,310.50 (46.3%)	176 (45.8%)	4.5%	\$52.90	\$2.48
Social	1,435 (9.97%)	\$1,630.00 (8.11%)	29 (7.55%)	2.0%	\$56.21	\$1.14
Referral	1,090 (7.58%)	\$1,218.00 (6.06%)	27 (7.03%)	2.3%	\$45.11	\$1.12
Email	325 (2.26%)	\$440.00 (2.19%)	8 (2.08%)	2.2%	\$55.00	\$1.35

Search Keywords

Year To Date

\$ AUD

Google Other Search Engines

CLICKS

2.8K

+100% yr/yr

IMPRESSIONS

34K

+100% yr/yr

CLICK RATE

8.26%

+100% yr/yr

AVG. POSITION

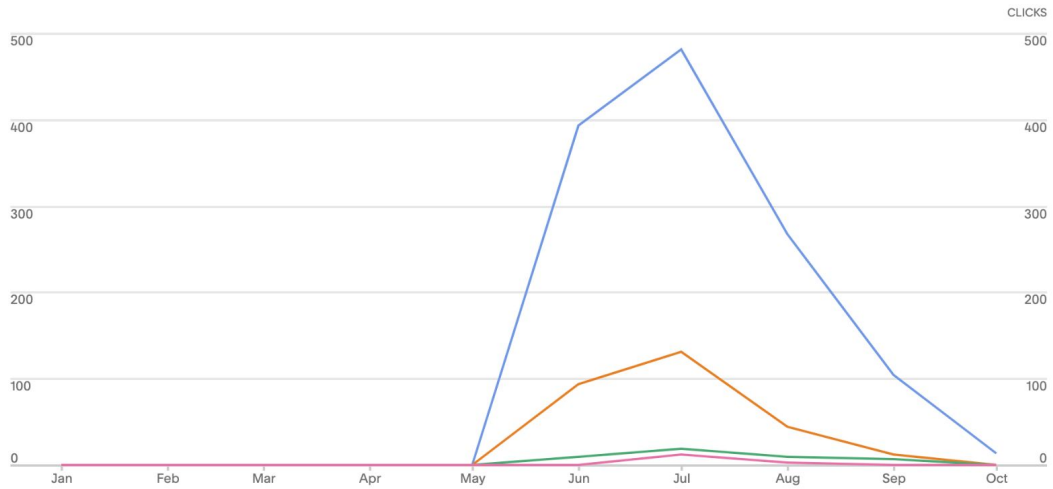
30

+100% yr/yr

Clicks (Keywords)

Jan 1–Oct 11, 2021 • 2,837 Total +100% yr/yr

Monthly



● mountain safety collective ● mountain sports collective ● msc avalanche ● msc maps

Keywords

By Page

By Domain

Search Keyword	Page	Clicks	Impressions	Click Rate	Avg. Position
mountain safety collective	/	1,165 (41.1%)	1,385	84.12%	1
mountain sports collective	/	266 (9.38%)	331	80.36%	1
msc avalanche	/	46 (1.62%)	71	64.79%	3.01



ATC Walk Through

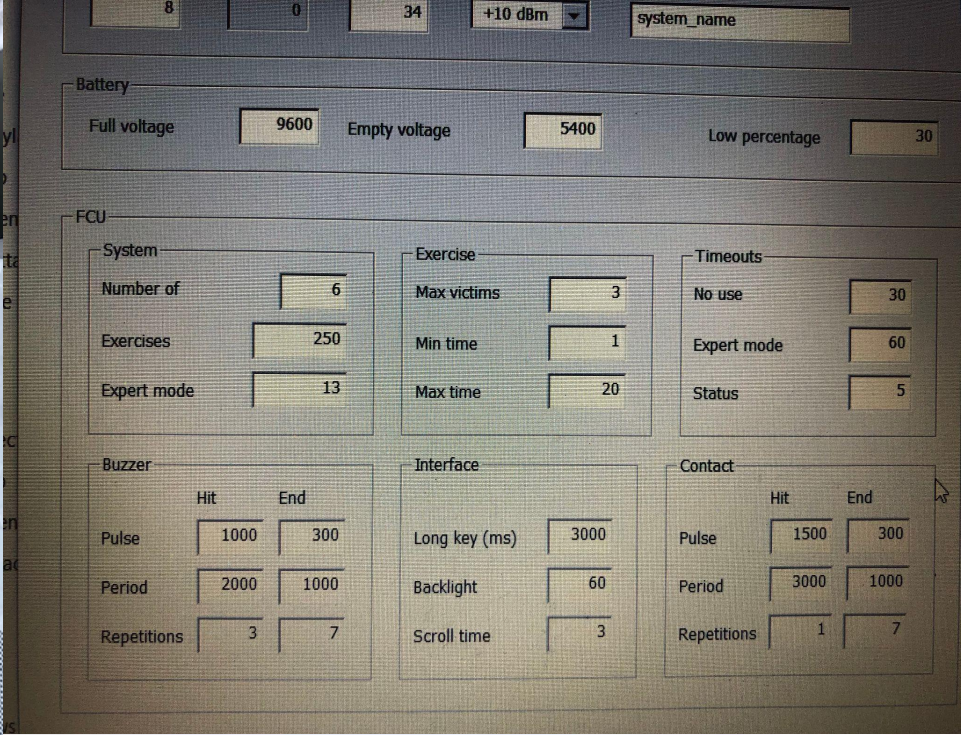






250 sessions







Independence Day Case Study



Vic Dividing Range - PM Report

Vic Dividing Range - PM Report														
Weather														
Observer:	Luke, Rolf, Nez				Location:	Hotham WD								
Date:	2021-07-04	Time:			Elevation Range:									
Weather														
Field Weather summary	Precip/Intensity	Wind Dir	Wind Speed	High Temp	Low Temp	Field HS								
Comments	cold morning. temps went above 0C in the pm. freezing level 1200 at 8am to 1700 m in the pm. winds													
Avlanches														
Avalanche Observations	Num	SZ	LOC	TRG	Type	INC	ASP	ELEV	Depth	Width	Length	Failure Plane		
	1	1.5		Sa	Slab		SE		40	20	30	Storm (suspect)		
Comments	size 1 skier accidental SE Mount Higgibotham. Wind slab													
Snowpack														
Snowpack Tests	CTE2 SC down 5cm						Wind transporting snow			Light snow transport				
Cracking	yes						Whoomphing/Collapsing							
Average ski pen	5-10cm						Ski Quality							
Snowpack Summary														
Other														
Where was the best snow today ?														
Other hazards?														
Did your morning forecast match the conditions you encountered?														
Comments/obs:														



Most observations taken from Mount Hotham, pressure taken from Mount Hotham Airport.

Date	Day	Temps		Rain mm	Evap mm	Sun hours	Max wind gust			9 am			3 pm								
		Min	Max				Dir	Spd	Time	Temp	RH	Cld	Dir	Spd	MSLP	Temp	RH	Cld	Dir	Spd	MSLP
		°C	°C					km/h	local	°C	%	g th	km/h	hPa	°C	%	g th	km/h	hPa		
1	Th	-0.3	1.8	15.2			NNW	80	01:01	0.9	100	NNW	41	1025.1	1.6	100	N	24	1023.3		
2	Fr	-0.1	0.5	0.8			N	98	21:48	0.1	100	NNW	31	1017.9	0.0	100	NNW	44	1014.9		
3	Sa	-5.1	-4.1	5.6			NNW	80	00:44	-4.9	99	NNW	4	1016.3	-4.5	99	Calm		1015.4		
4	Su	-5.4	-2.8	0.4			N	43	11:36	-4.4	99	Calm		1017.3	-3.4	99	NNW	2	1016.3		
5	Mo	-5.6	-0.2	3.4			SW	39	09:02	-4.9	99	SSW	28	1021.7	-2.6	99	SSW	19	1021.0		
6	Tu	-5.1	0.8	2.0			WSW	39	03:46	-1.2	59	SW	22	1021.9	-2.3	90	SE	15	1021.7		
7	We	-4.0	0.4	0.4			N	41	19:33	-0.6	36	N	15	1025.3	-0.8	76	N	15	1023.4		
8	Th	-5.2	0.2	0			N	37	10:27	-3.5	56	N	28	1022.6	-0.6	66	N	17	1020.0		
9	Fr	-3.8	1.8	0			N	41	02:19	-1.7	99	NW	15	1017.2	1.0	80	SSW	4	1015.5		
10	Sa	-4.9	0.9	0			SE	44	07:03	-1.4	99	ESE	28	1023.7	-0.1	99	SE	11	1024.7		
11	Su	-2.9	0.5	0			N	65	22:11	-1.3	84	NW	15	1028.2	-0.2	97	NNW	26	1025.2		
12	Mo	-1.8	-0.3	0			NNW	87	09:29	-0.8	99	NNW	57	1021.9	-1.0	99	NNW	46	1018.3		
13	Tu	-1.8	-0.1	1.4			NNW	80	02:02	-0.7	100	NNW	39	1016.9	-0.2	100	NNW	41	1014.4		
14	We	-2.4	1.3	1.6			NNW	106	14:30	-1.4	99	N	57	1008.5	-0.3	100	NNW	59	1004.2		
15	Th	-2.0	1.2	31.0			NNW	80	13:58	0.4	100	NNW	44	1003.8	1.0	100	NNW	46	1001.2		
16	Fr	-2.5	-1.1	18.2			NW	81	22:18	-2.4	100	NNW	19	991.7	-2.1	99	NW	9	990.8		
17	Sa	-5.0	-1.5	13.0			NNW	69	00:39	-4.7	99	NW	9	992.4	-4.3	99	NW	6	995.9		
18	Su	-5.2	-0.6	4.8			NW	37	21:01	-1.8	99	W	24	1013.3	-0.7	100	WSW	11	1014.5		
19	Mo	-4.3	-1.8	2.4			NNW	50	10:51	-2.9	99	NNW	30	1017.0	-2.8	99	NNW	20	1013.3		
20	Tu	-3.6	-1.3	7.8			S	81	18:21	-1.9	99	Calm		1006.3	-2.0	99	Calm		1003.0		
21	We	-6.2	-3.3	10.6			SSE	83	06:08	-5.2	99	S	44	1017.3	-3.7	99	S	19	1018.3		
22	Th	-5.2	-1.7	0.2			N	80	23:41	-4.4	99	N	31	1016.4	-1.8	99	NNW	35	1011.7		
23	Fr	-4.8	-2.1	0			N	72	02:46	-3.9	99	N	15	1006.5	-2.4	99	NNW	17	1003.3		
24	Sa	-3.9	-2.1	3.0			N	69	11:53	-2.7	99	Calm		999.9	-2.2	99	N	17	997.5		
25	Su	-5.3	-1.0	14.6			N	72	23:09	-5.3	99	N	2	1000.8	-5.1	99	Calm		1004.7		
26	Mo	-5.4	0.0	10.2			N	87	12:36	-1.1	99	N	19	1012.8	-0.1	100	N	52	1012.7		
27	Tu	-1.1	0.1	30.2			N	117	21:53	0.0	100	N	50	1015.2	0.0	100	N	52	1011.7		
28	We	-0.3	0.0	12.2			N	122	01:08	-0.2	100	N	50	1004.0	-0.1	100	N	39	1000.7		
29	Th	-4.6	-1.7	17.2			N	54	23:15	-4.5	99	N	2	1013.3	-1.8	99	N	13	1015.4		
30	Fr	-4.5	0.0	0.2			N	70	12:42	-4.0	99	N	26	1018.2	-2.6	99	N	31	1015.9		
31	Sa	-4.1	2.0	3.0			N	96	06:53	0.0	100	N	57	1010.8	0.0	100	N	22	1007.6		

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?

?

A	B	C	D	E	F	G	H
Instructions: Find your date, if nobody has filed obs already then use that column, if it is already populated select the column and duplicate it. Then add your obs. The cheat notes below will help if you are having trouble. Cheers and thanks for your help. Craig & Simon.	Technical notes on the spreadsheets. Not errors or suggestions here if the sheet can be improved, Cheers Simon.						
Date		2021-07-01	2021-07-02	2021-07-03	2021-07-03	2021-07-04	2021-07-05
This is a reference to where you started out in many ways, with the next field telling us where you took 'Obs'	Location	Mt Hotham	Mt Hotham	Mt Hotham	Mt Hotham	Mt Hotham	Mt Hotham
Lat long or just a short description	Specify	WDH	BigD Plot	WDH	BigD Plot	Hotham Summit	
That's you baby!	Observer	Simon	Bill	Simon	Bill	Rolf	
Handy links for Automatic Weather Stations, you don't have to fill in anything... just helps get the picture.	Weather Station Observations: Hotham AWS , Falls Creek AWS , Buller/Stirling						
Handy links for Automatic Weather Stations Graphs	Weather Graphs: Hotham Graphs , Falls Graphs , Buller/Stirling Other Links: windy.com , Nullschool Now , Snow-Forecast						
Your Weather Observations	Weather Observations						
	Time	1600	9	1400	900	1130	
	Sky (S score)	Broken	Overcast	Overcast	Overcast	Clear	
	Freeze Level (mASL)	1750	1200	1200	1200		
	Precip Rate (Snow Ph)	1	0	2	S-1		
	Precip Rate (Rain Ph)						
Take this from the AWS data	Min Temp (C°)	0	-4.9	-5	-5.3		
Take this from either AWS or your obs	Max Temp (C°)	0	-1	0.3	-4	-4.2	-2.2
	Present Temp (C°)	0	0	-4.9	-4	-4.6	
	Relative Humidity	99	99	99	99		
Dont worry about this if you arent at a plot	Precip Gauge (mm)		1				
Wind Speed (km/Ph)	Wind Speed (km/Ph)	Light (1-25)	Strong (41-60)	Moderate (26-40)	Strong (41-60)	Light (1-25)	
Wind Direction (Cardinal)	Wind Direction (Cardinal)	NW	NW	NW	WNW	N	
Dont worry about this if you dont have a measure	Baro Pres (kPa)						
Dont worry about this if you dont have a measure	Pressure Trend		1012			1013	
Site Air Temp (@1.5m)	Site Air Temp (@1.5m)		Steady (S)		Rising (R)		
Paint a general picture of what you are seeing here, can be surface conditions, wind and changability, anything that strikes you as important	Comments:		Super wet to depth 25cm, slush balls, still super featured. Lightly drizzling	10cm of fresh snow on 35cm of wet. The new snow was balling, not pinwheeling.		snow drifts same aspect as Size 1 yesterday. S Aspect.	
Snowpack Observations	Snowpack Observations					2021-07-03	
Boot Penetration (cm)	Boot Penetration (cm)	25		2021-07-03	20	15	20
Can only reliably do this with a Storm Board	Height of Storm Snow / HST (cm)		15				
Hotham Aggregate	New Snow 24hrs / HN24 (cm)	0	7	10	14	8	
Hotham Aggregate	Snowpack / HS (cm)	35	29	43	43	43	
Falls Aggregate	Snowpack / HS (cm)	25	25	39	39	47	
This is your observation / HS (cm)	Height of Snowpack MSC / HS (cm)	35	35	45	47	215	
	Snow Surface	Snow Moist	Snow Dry	Snow Dry	Snow Moist	Snow Dry	
	Crust Thickness (cm)		2				
This is in 'One Finger', 'Pencil', 'Knife'...	Crust Hardness		1F				
	10cm Snow Temp (C°)	-0.5		-2			
Comments: If you want to provide a profile then the place to do that is here: https://snowpill.org/ User name: MSC_AU and the password is: Patrol1 and then add the link in your column, it should look like this:	Comments: If you want to provide a profile then the place to do that is here: https://snowpill.org/ User name: MSC_AU and the password is: Patrol1 and then add the link in your column, it should look like this:	https://snowpill.org/node/34225		Warm, moist weather in previous 48 hours until midnight. Temperature then dropped rapidly and the majority of new snow fell cold. There is now a very soft crust at new / old interface.		https://snowpill.org/node/34226	

-4.9	-5	-5.3
0.3	-4	-4.2
-4.9	-4	-4.6
99	99	99
1		
Moderate (26-40)	Strong (41-60)	Light (1-25)
NW	WNW	N
1012		1013
10cm of fresh snow on	Rising (R)	

Avalanche Observations	Observed
Number of Avalanches	1
Avalanche Type	Wind Slab
Avalanche Aspect	E
Avalanche Trigger	Sa
Avalanche Size	1.5
SCV Cornice Area, near the top of Big D. Skier was half buried but could self extricate. Approximate 40 cm crown, 25 meters wide and ran for 30 meters onto flat open terrain. Ridge top wind slab. Unsure if it was new/old interface or withn the new snow.	



August

- ❑ Digital Field Observation Plots



Remote digital observation assets can compare same time in different places. These locations are 20 km apart.

c27 - snow depth - Missy ↕ ↻

← 2021-09-20 08:16 ↕ →



c28 - snow depth - Mr Big ↕ ↻

← 2021-09-20 09:16 ↕ →



c27 - snow depth - Missy ↕ ↻

← 2021-09-19 07:01 ↕ →



c28 - snow depth - Mr Big ↕ ↻

← 2021-09-19 08:47 ↕ →





We are developing a plan to have this rolled out across the range.





September

- ❑ Spring - Ambassadors and Sponsors



Ambassadors



Tim Macartney-Snape



Alex Parsons



Drew Jolowicz



Sponsorship Program



Signature Sponsor



MSC
MOUNTAIN SAFETY COLLECTIVE

SUPPORTED BY



ARC'TERYX



Treasurer's Report and Financial Statements

Income Statement for year ended 31 May 2021

	Note	2020/21 \$	2019/20 \$	2018/19 \$
Income (revenue)			13,305.00	18,033.00
Memberships NSW	4	8,461.45		
Memberships VIC		10,002.00		
Merchandise		1,178.70		
Shipping		1,673.00		
Grant		30,000.00		
Total Revenue		51,315.15	13,305.00	18,033.00
Cost of Goods Sold				
Total Cost of Sales	5	9,731.50	10,252.00	6,675.09
Gross Surplus		41,583.65	3,053.00	11,357.91
Expenses				
Administration		464.15	1,512.49	1,438.74
Association fees		3,767.75	0.00	93.90
Postage		792.60	354.92	1,366.18
Website hosting		2,746.96	462.00	5,490.77
Event Expenses		0.00	921.86	1,299.00
Finance Fees (Stripe)		472.00	318.02	428.94
Advisory updates		14,864.34	0.00	223.02
Consulting fees		0.00	5,270.00	
Net Surplus/(deficit)		18,475.85	-5,786.29	1,017.36

Balance Sheet for year ended 31 May 2020

	2020/21 \$	2019/20 \$	2018/19 \$
Total Assets	30,585.00	7,343.50	12,986.49
Total Liabilities	4,908.95	300.00	0.00
Total Net Assets	25,676.05	7,043.50	12,986.49
Equity			
Current Year Earnings (Net Surplus)	18,475.85	-5,786.29	1,017.36
Retained Earnings	7,200.20	12,986.49	11,969.13
Total Equity	25,676.05	7,200.20	12,986.49



Treasurer's Report - Memberships





Confirmation of annual subscription fee



Election of Committee and Office Bearers

Position 1
Owen Lansbury

Position 2
Rolf Schonfeld

Position 3
Nitasha Randall



Board Members + Committee Structure

**President
Craig Sheppard**

**Secretary
Nitasha Randall**

**Vice President
Simon Murray**

**Treasurer
Narelle Watters**

**General Committee
(VIC Director)
Rolf Schonfeld**

**General Committee
(NSW Director)
Owen Lansbury**

**VIC Sub Committee

Kelly Van Den Berg
Cam Walker
Sam Robinson**

**NSW Sub Committee

Pieta Herring**



2022 Season

What to expect?

- ❑ **Continue to develop/strengthen existing relationships**
- ❑ **Recruit field observation team**
- ❑ **Digital Field Observation Plots**
- ❑ **Grow community engagement**



General business from the floor Q + A