Search and Rescue in New Zealand



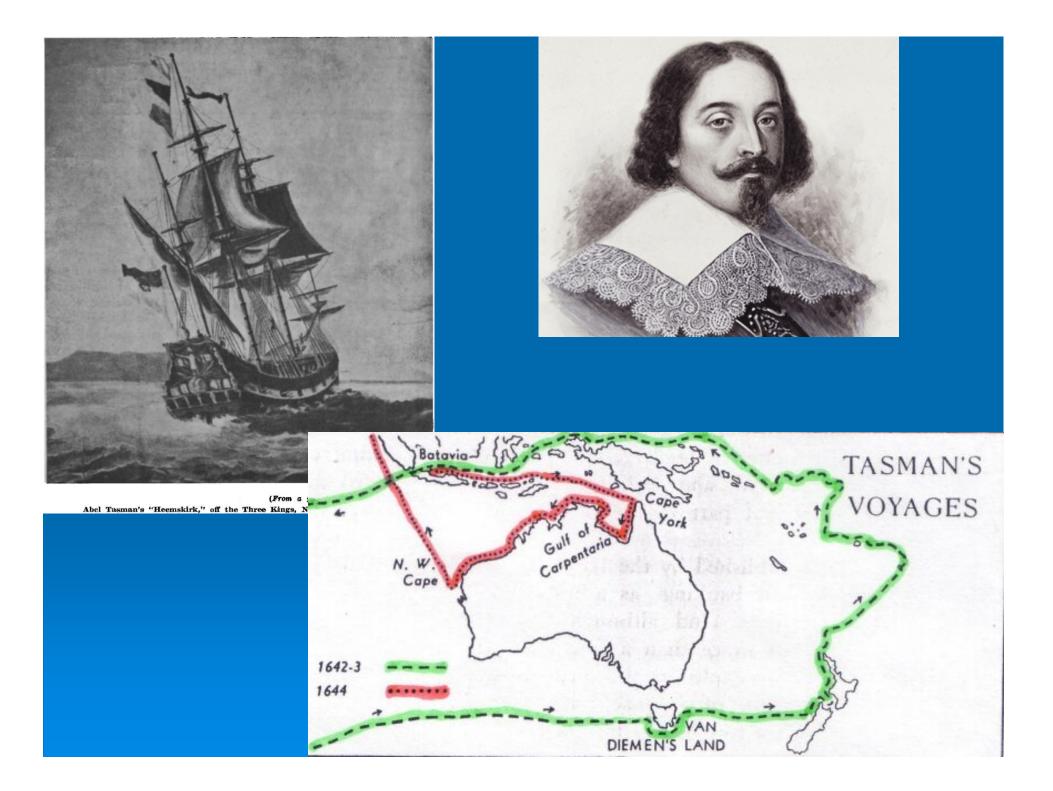














New Zealand today

Population 4,290,347 (July 2011 est.)

Urbanization urban population: 86% of total population (2010) rate of urbanization: 0.9% annual rate of change (2010-15 est.)

Ethnic groups European 56.8%, Asian 8%, Maori 7.4%, Pacific islander 4.6%, mixed 9.7%, other 13.5% (2006 Census)

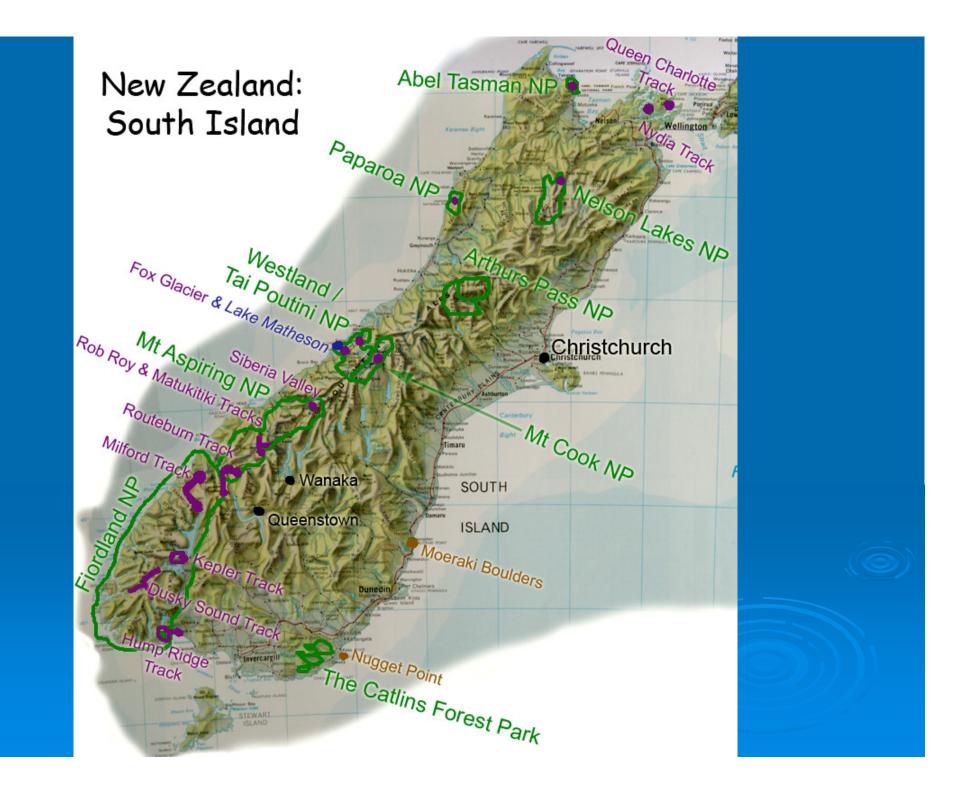
Languages English (official) 91.2%, Maori (official) 3.9%, Samoan 2.1%, French 1.3%, Hindi 1.1%, Yue 1.1%, Northern Chinese 1%, other 12.9%, New Zealand Sign Language (official)





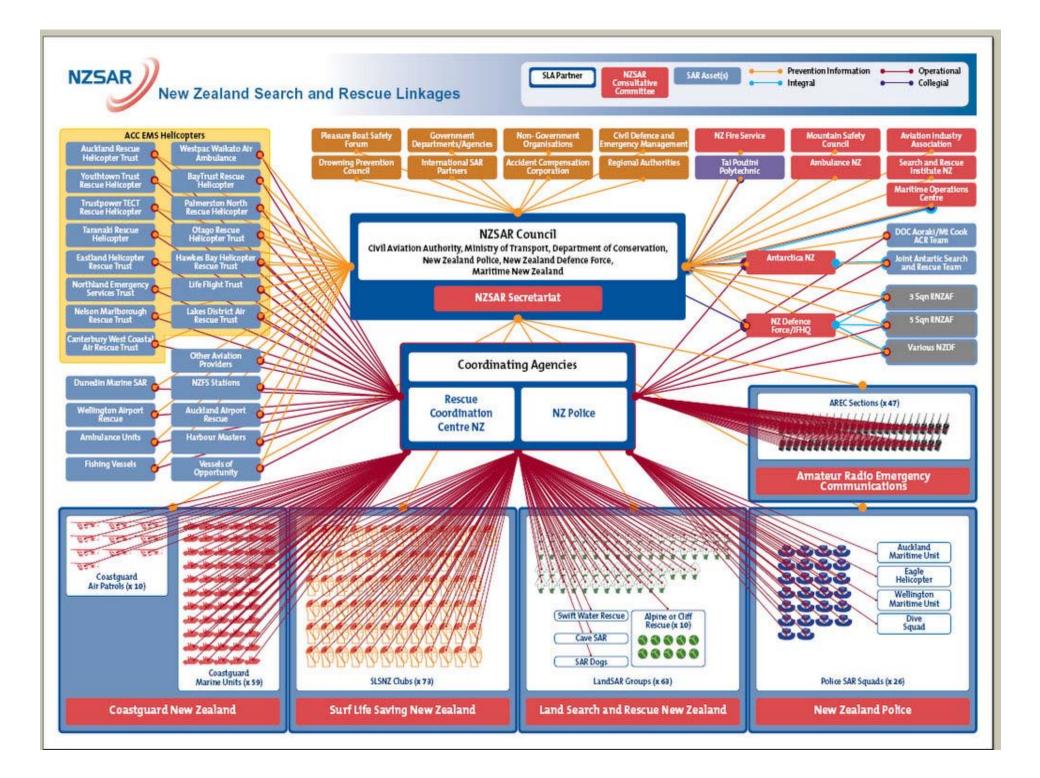












- In New Zealand two co-ordinating authorities to initiate a SAR operation:
- New Zealand Police (land and close to shore),
- RCCNZ (Rescue Co-ordination Centre New Zealand) under maritime New Zealand are responsible for emergency locater beacons

Aoraki/Mt Cook Search & Rescue



Home of New Zealand's highes peak Aoraki/Mount Cook 3754m.

70,728 hectares in area

25 summits over 3000m.

18 mountain huts, with 8,000 bed nights each season. Aoraki/Mount Cook National Park is a magnet within Australasia for high alpine climbing

 attracts both international and New Zealand climbers.

• except for the low elevation (Aoraki Mount Cook is only 3754m) This region of the Southern Alps has all the characteristics of major mountain ranges around the world e.g. the Himalayas.



First recorded climbing deaths in the area – 1914.

Approximately 226 deaths in the park.

Approximately 3-5 fatalities per year.

64 people in the park that are still missing or unrecovered.



On average there are 15-25 incidents that require SAR assistance each year.

Majority are alpine related.

Nature of terrain means a majority of the time it's either minor or major.

Mainly occur in the summer season – Oct/March.



SAR at Aoraki/Mt Cook

- SAR is a Police responsibility.
- However Police recognized that team needed to be based in village because of the:
 - High number of incidents in area.
 - The quick response time needed.
 - High and specialist skill level needed.
 - The Police don't have the skill levels <u>and</u> numbers to undertake alpine rescue.





Team Composition

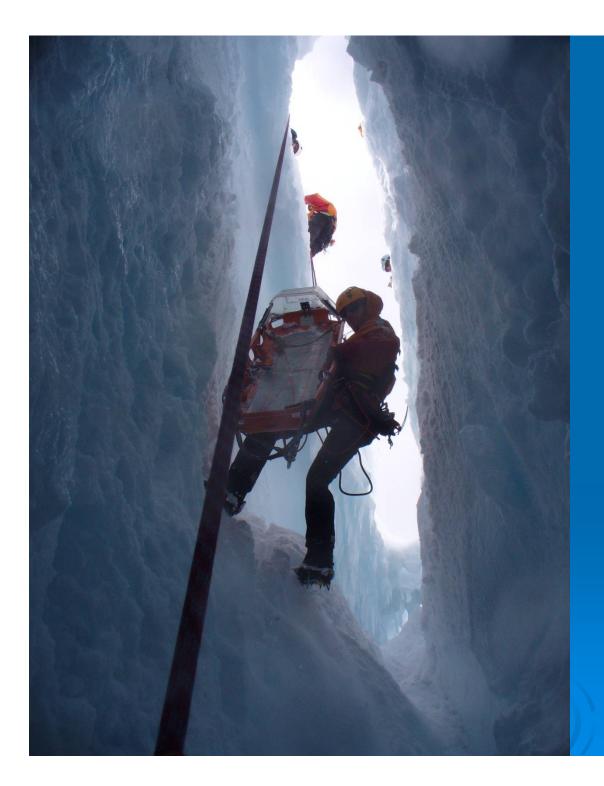
- Four full time staff as SAR team members.
- Four summer mountaineers over peak period.
- Positions are not 100% SAR work.
- Approx 50% SAR (training/operations)& 50% other DOC work.

Nature of Today's Jobs



- Only involve 3-4 rescuers.
- > Typically only last 3-5 hours
- Usually involve helicopters.
- Tend to sit out weather.
- Little or no media attention. Job is usually done by the time they arrive.
- Not often do we do a multiday stretcher carry.

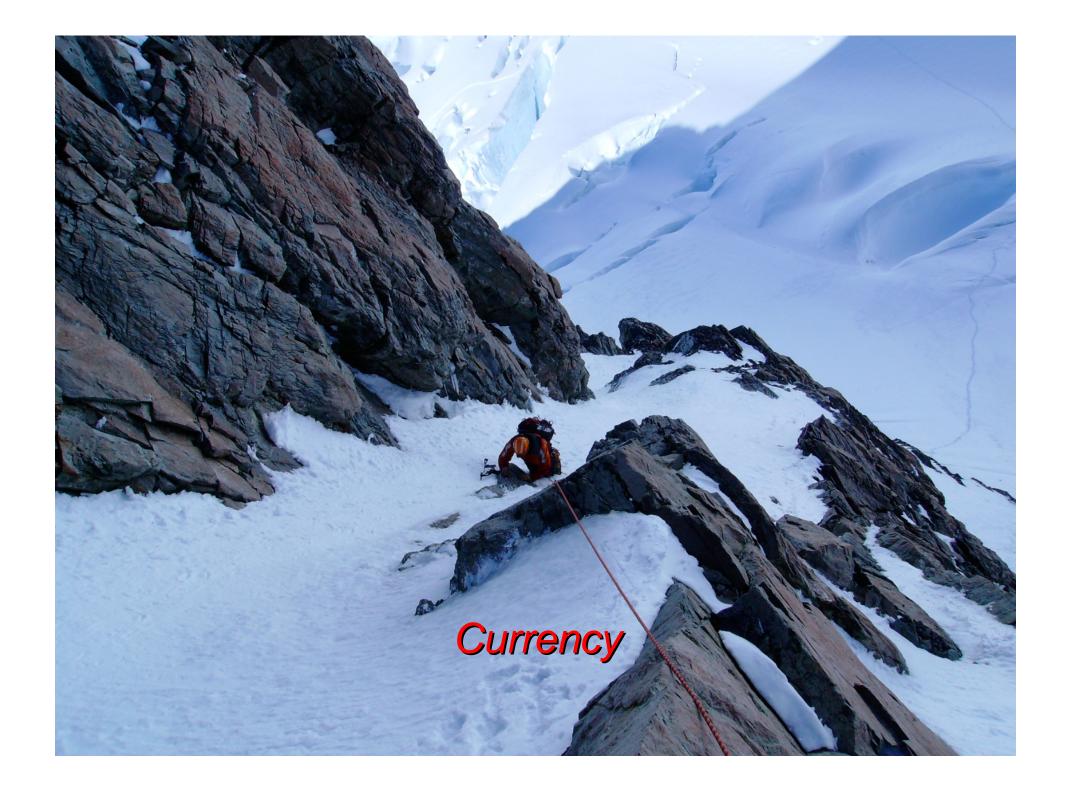




Crevasse Rescue









Heli Training



 Rescue work in this kind of terrain is very demanding requiring specialist skills and also a quick response is essential in order to save lives.

Methods of alert:

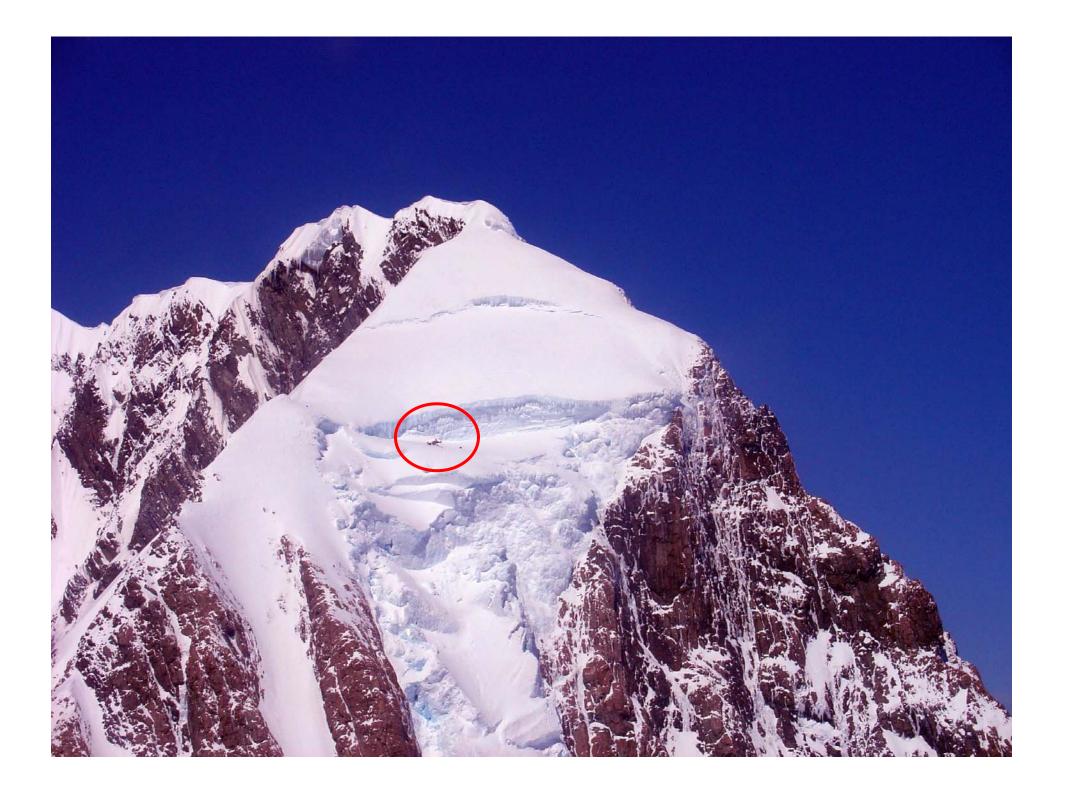
- SAR staff are alerted by various means:
- cell phone call direct to an Aoraki DOC number e.g. the Visitor Centre,
- cell phone call via the 111 system to the Police or Ambulance,
- from the climbers intention card e.g. overdue or concerns as not contacted on radio schedule for several nights,
- climbers signal a passing aircraft,

- a radio call from a mountain hut by members of the injured climbing party or
- another climbing party who have observed an accident,
 - activated by RCCNZ following activation of an emergency locater beacon.

Note

- very often little information immediately available.
 - At best if an accident: location, number of patients condition, weather conditions on site, terrain issues may be known for access by helicopter







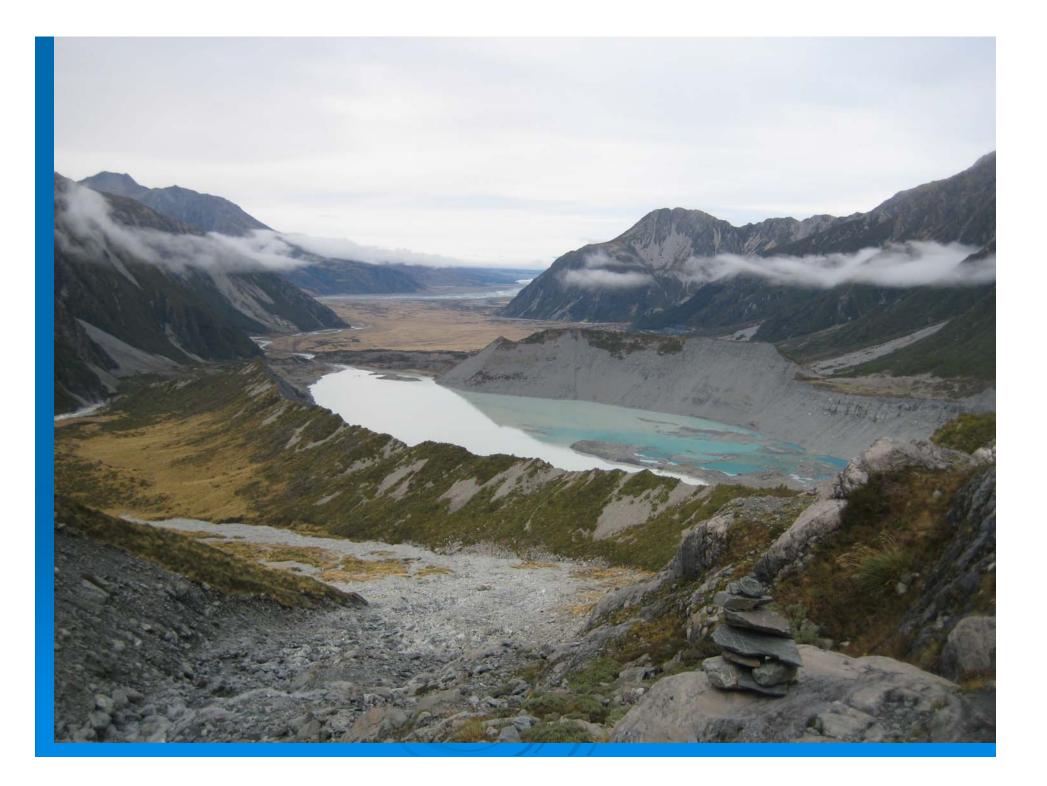




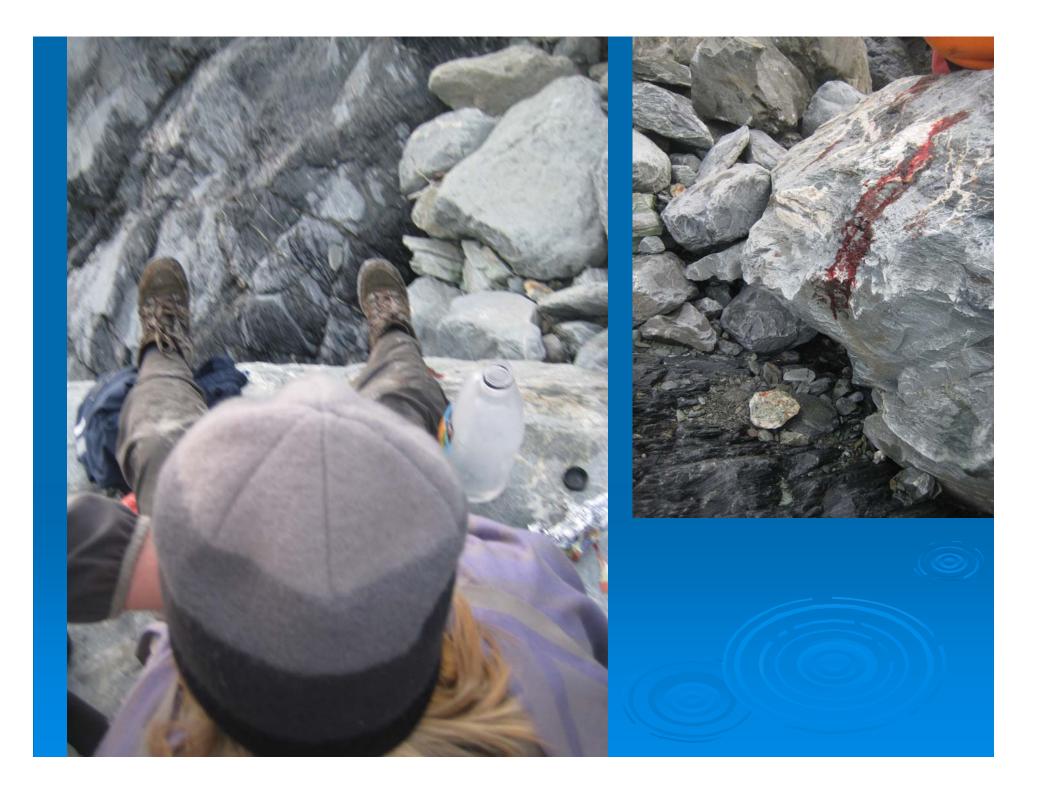
- For a rescue (known location/known patient/s) the most important information
- once the rescue team is on sitethe patient/s condition to enable the activation of advanced paramedic backup e.g. from the Westpac Helicopter



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Insured Party Martene Monte	
Inicident Reported to VC :- 12	
Weather - Five, clear uninty - Calm conditions.	



What happens at the ES Operations Room

- Key Incident management positions are filled using the CIMS structure
- Incident Controller
- Operations Manager
- Planning/Intelligence Manager
- Logistics Manager
- Log scribe

Positions filled based on principle of "best person for the job"



Rescue Plan I IF party is on hower part of Settion Raise (A) = Secure fifty in the charter Machine - 40 Team Houser (B) - L. Hower load.

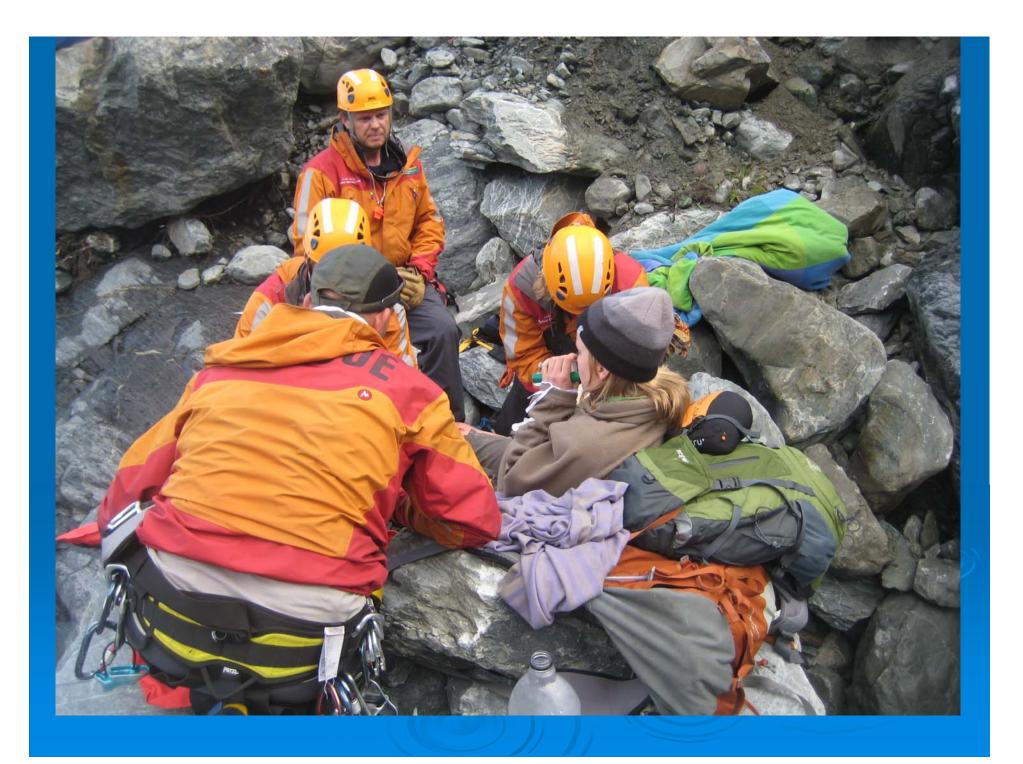
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3) -> 13:45 -> Investigations site, my need rade stead Ressure Westpace on Route To Mt. Cook















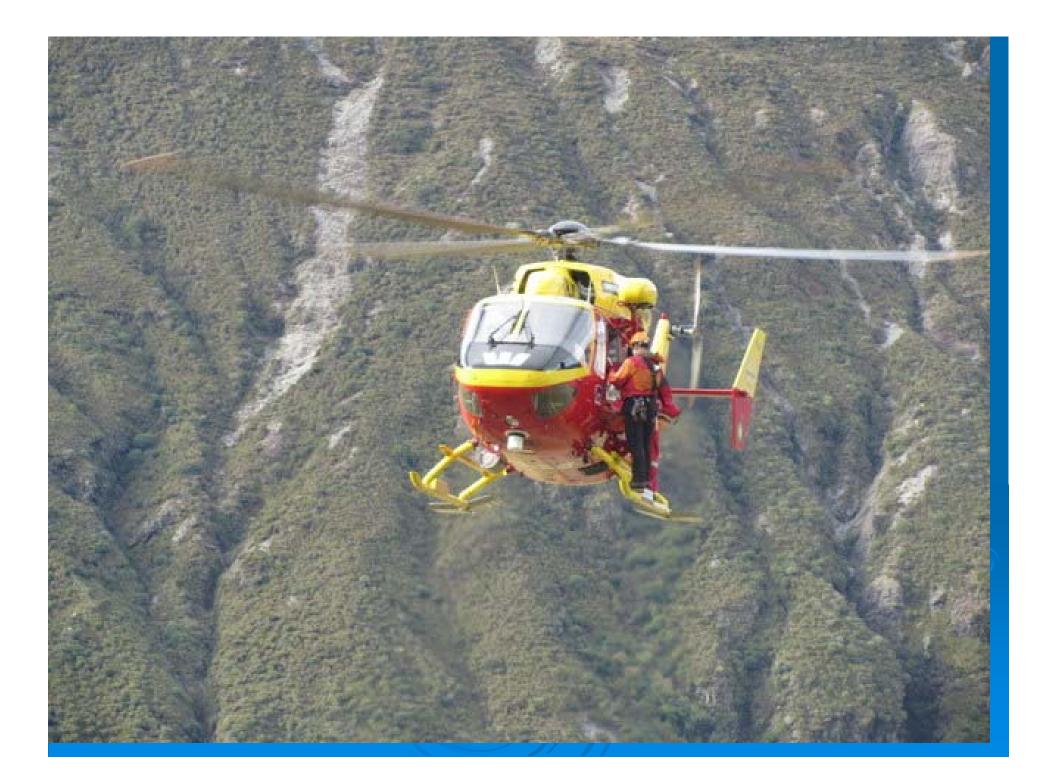






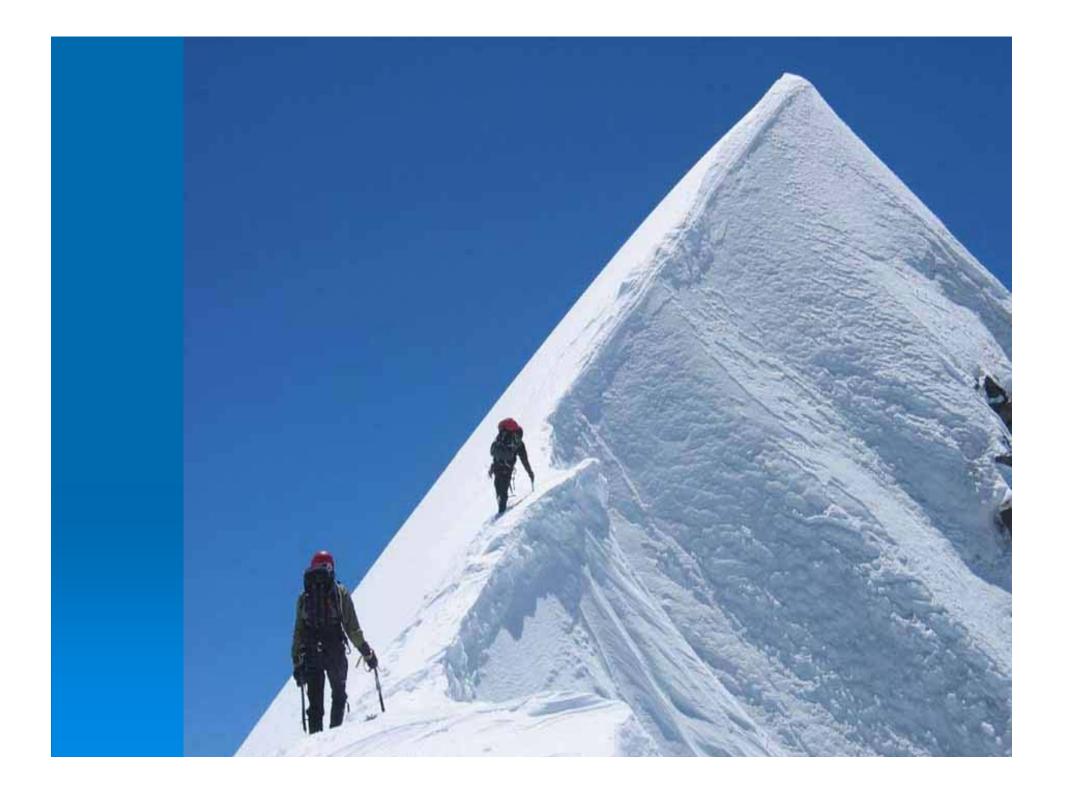












Vision <td

- Duty Officer contacts all the huts each night and keeps track of climbers.
- Duty Officer had a 'gut feeling' about the climbers even though they were not overdue.

0900 - 1/12/08

2. SEARCH URGENCY CHART

- Remember the lower the number the more urgent he response
- Use two or more people to independently fill out the search urgency

SUBJECT PROFILE	Rating	Totals
Number of subjects	100	
1 Person	de la	
2 People	2	
3 or more	3	
Age		
Very young		
Very old		
Other	2-4	
Medical Condition		
Known illness or injury requiring medical attention		
Potential vision impairment	1	
Suspected injured or ill or mental problem	2m	
Healthy	3	
Known fatality	4	
Physical Condition		
Infit	5	
	0	
/ery Fit	3	
CLOTHING PROFILE	a free present	
nadequate or insufficient	1	
Adequate	(2)	
/ery Good	3	
QUIPMENT PROFILE	ETTU	
nadequate for weather, environment and activity	1	
Juestionable	20	
Idequate	(3)	
/ery Good	Ā	
XPERIENCE PROFILE	A MARTINE	
lot experienced, does not know area	1	
lot experienced, know area	٢	
xperienced, not familiar with area	3	
xperienced, knows area	4	
VEATHER PROFILE		
ast and/or existing hazardous weather		
redicted hazardous weather (8 hrs. or less)	(2)	
redicted hazardous weather. (more than 8 hrs.)	5	
o bazardous weather predicted	4	
ERRAIN HAZARDS PROFILE		
nown hazards	(1)	
ifficult terrain	Ý	
ew hazards	-	
asy terrain no known hazards	4	1-7
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If any of the categories are rated 1, regardless of the total, the search may require immediate response.



28-33 EVALUATE & INVESTIGATE



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crear List - from Kiyoshi's pack. 9.5 SOM X 1 Sings 1 Ilmmx 240cm 6 TMM × 100 cm 1 TIMAX 120 CM Sling autobake x 2 Checaly Karabiner x 16 Lockey Karalsher x 4 each) Ropeman ascender x 1 Friends x 5 sizes 1 to 3 The Schen L+ x 16man Snow Pichet 2x 20 cm 2x 58 cm 2x 50 cm Gear Rack x 1 Backpac ix 60l Helmet x 1 ench Ice Pik × 1 Rail? Crampone X 1 Basts x1 Cadors XI Hayness x aloped, x Rain Jacked x peck warmer x1. Inner gloves * 1 Over gloves XI. over jacket x1. Inner jackets ×1 S=(Ks ×2 inner pants ×1 underwear steeping big consert down jacket x1. Fleece x1 Single peron matri Tent. Tent fly

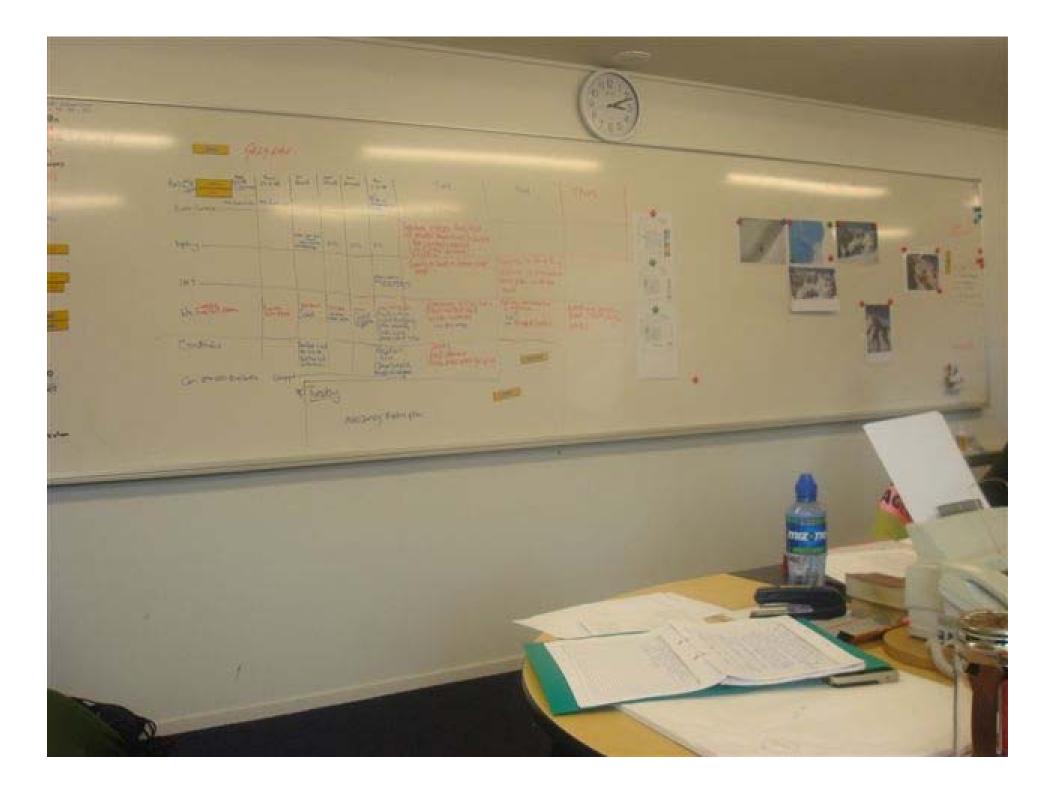
Options: a Hover i drop off two rescuers. Lest to staging area. Then strop up with one - back is patient Then strop up with one - back in 2nd patient Strop up empty-back with 2 rescuers + Hip B. Stranght strop-2 people Prep patients As above. up-BK - Winch 2 people down -Prep patients As above . - Stage to Gardner Hut. 3 BK vs Strop-Devithcom dask BK. - 58 Carl. Cellphone of duty pilot to telk to Dave W. D Wanaka SAR- Clinton Bryan Dame to brief them Brief them on site - Think to Denis. 3)

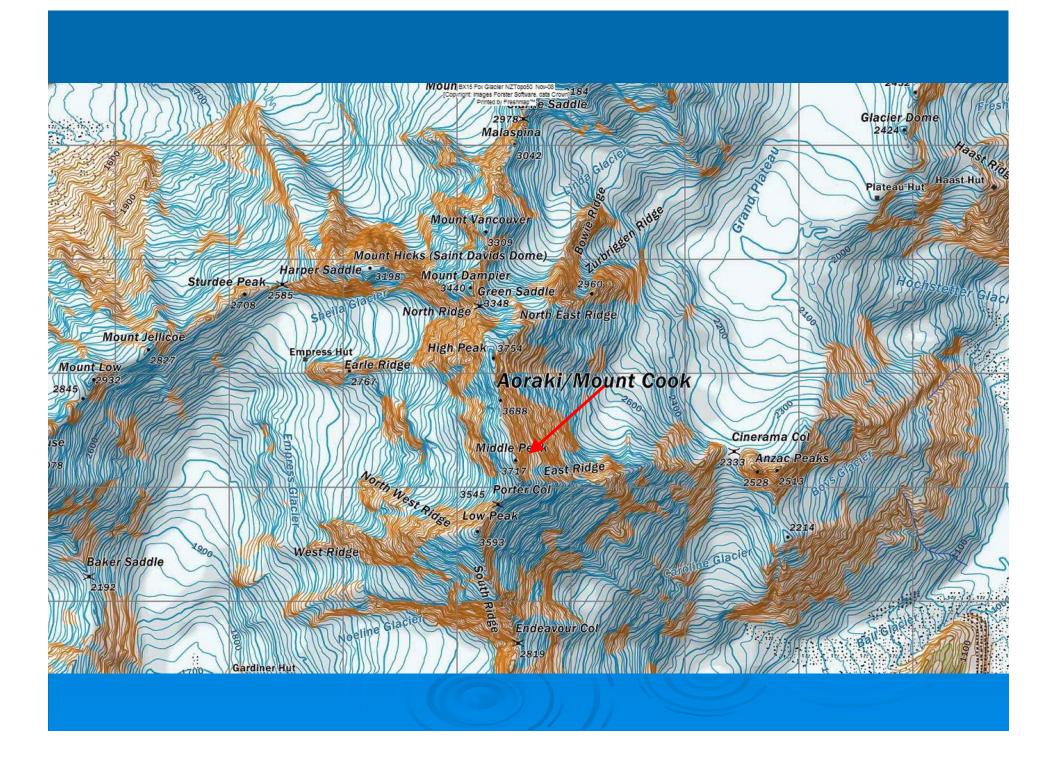


0 2 on strop 2 al stagling area on medical Sev the good Teams: 20P4 If go on drop bag flight, try and determine Needs not resources in right places. Needs monagement done well. Discussion on medical care. Adv. paramed. cail do any more for Prostlade hyporthermia than most people. Plan: Need to be here @ 0500 3/2/08. I Feam × to -> drop bag estrop + 2 Machines. FRAM 4 RN + drop/strop fond 18 drop bags 2+ drop 15 strop team 3 -> LZ - prep + strop in Team + drop bags Dave Timy Steen Marcus - 2 @ LZ - Kanen Brop bags - Marcus - 2 @ LZ - Kanen Marcus marcus Hobbie, Richie, Kater @ LZ -stand prop 12 - Koven, Dave Richie, Jane Strop-Tinny, Hobbiette) + Marcus if need

NZLSAR TEAM TASKING

DATE TIME GRO	UP	INCIDE NAME	ENT		TEAM NA	ME	TEAM CALL SIGN
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RESOURCE	GR(TEA	DUND M		D O GS	TCA	HELO	OTHER
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Team Members		uno l			(MEN JAC	10 1	
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Map/s Used 36	NZM	AS 260		11.00	1	Date	10.000
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Decision Points for	Tean	1:					
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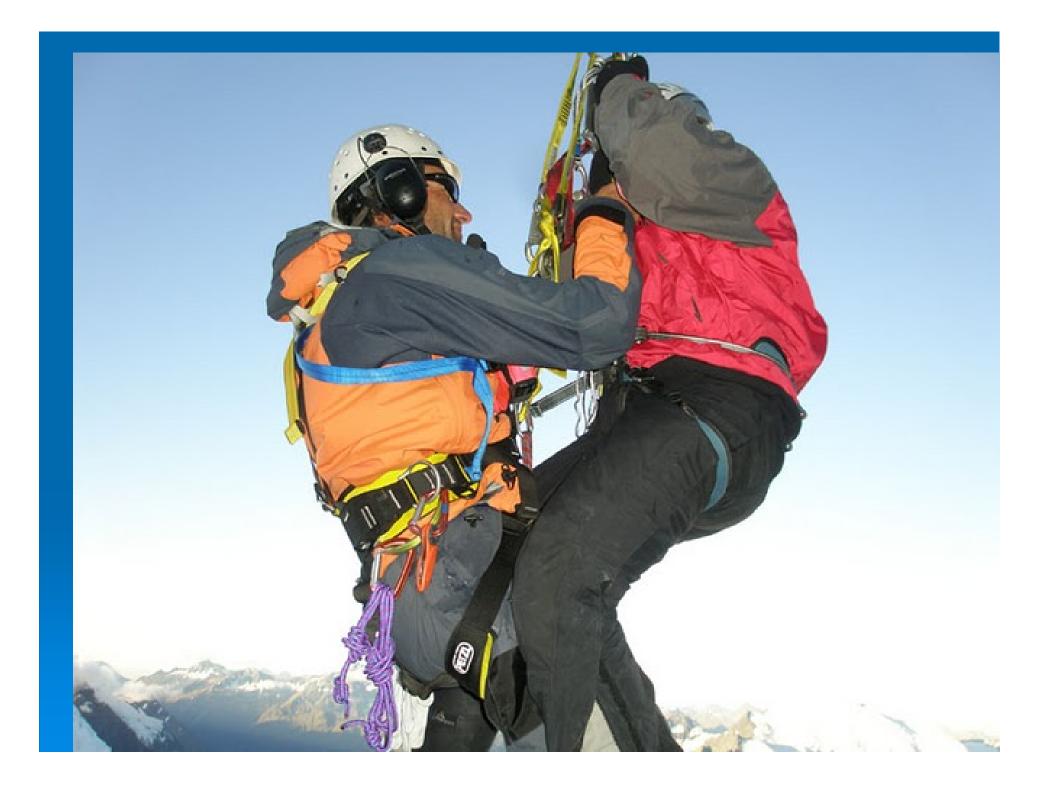
- > This photo taken on clay 3 of 5.
- > Drop bag contained radio, food, clothing, cookers etc. but they did not find it...
- > The following day the village received over 200mm rain = 2 m snow on site and 100km winds.
- > During the storm the climbers lost their tent and belongings.



- Temperature at time of rescue was –21°C
- Nara used a a ballpoint pen and helmet to dig hole.
- Hideaki Nara escaped with just minor frostbite.
- Kiyoshi Ikenouchi died just hours before Nara was rescued
- SAR team returned about 10 mins later to rescue Kiyoshi.







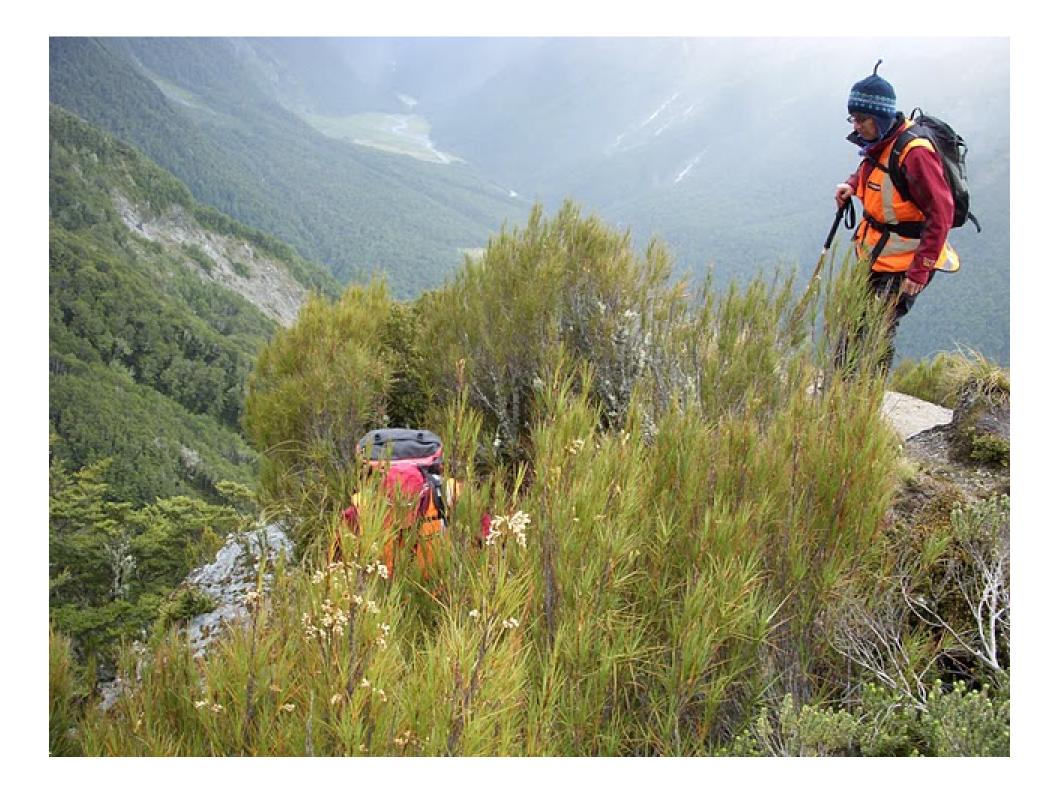


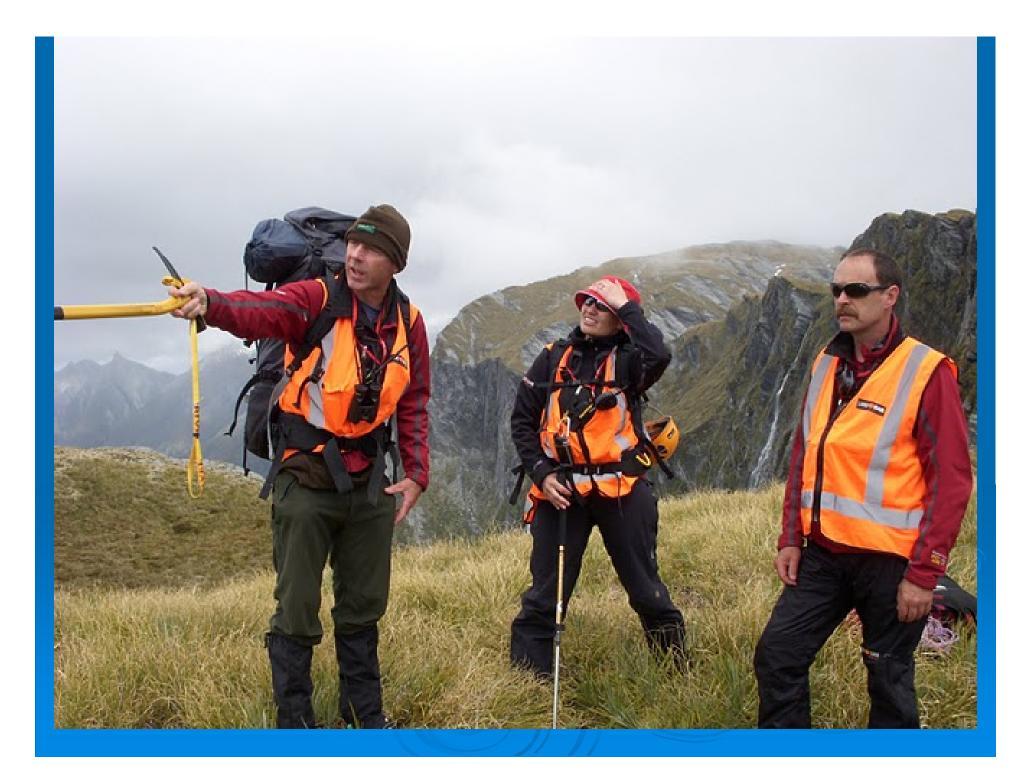




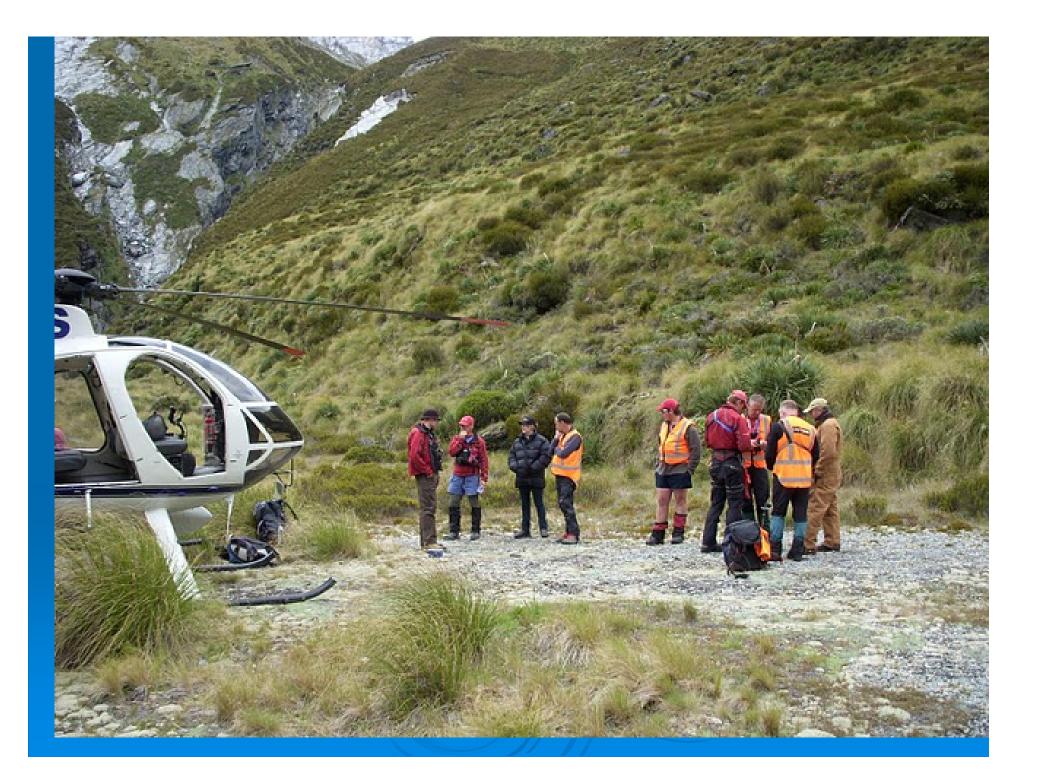


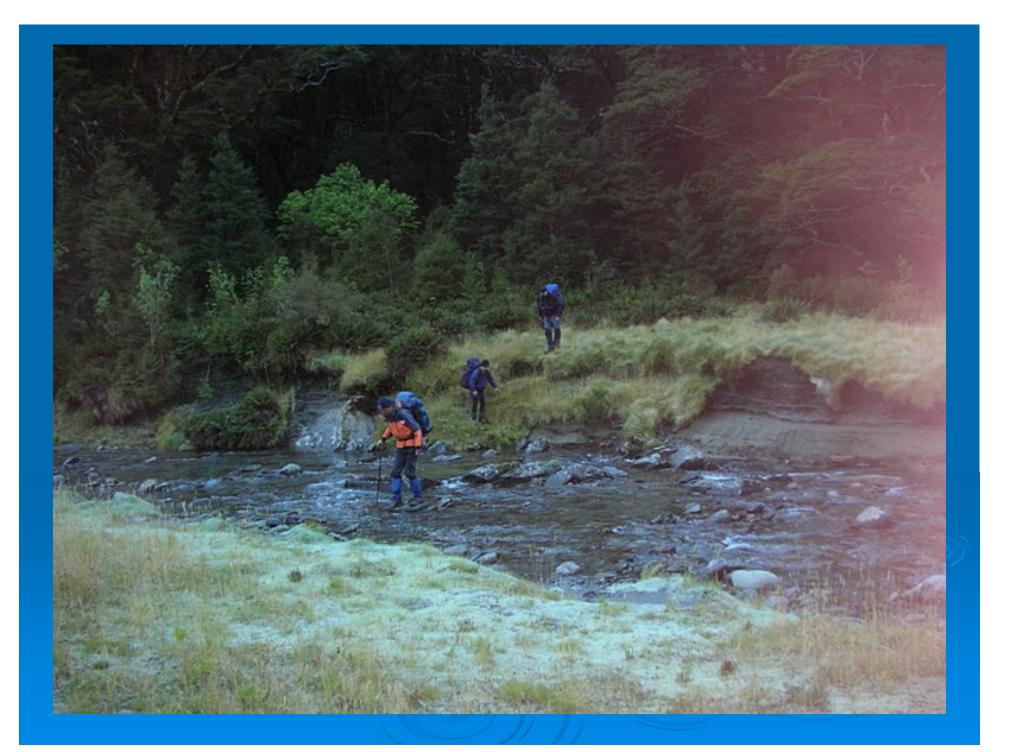






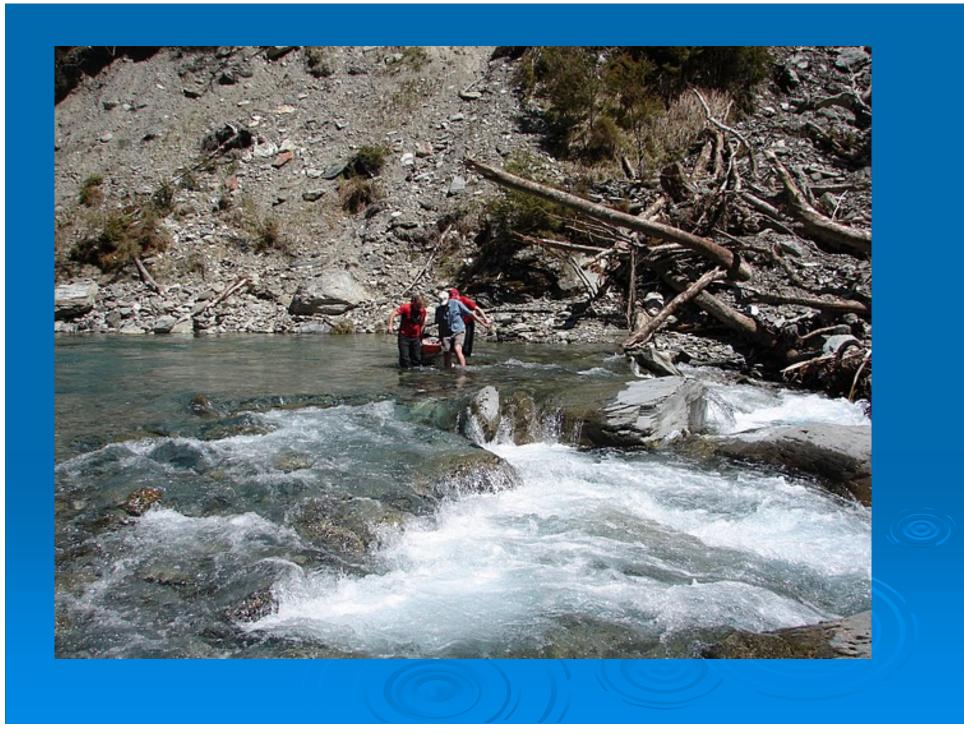




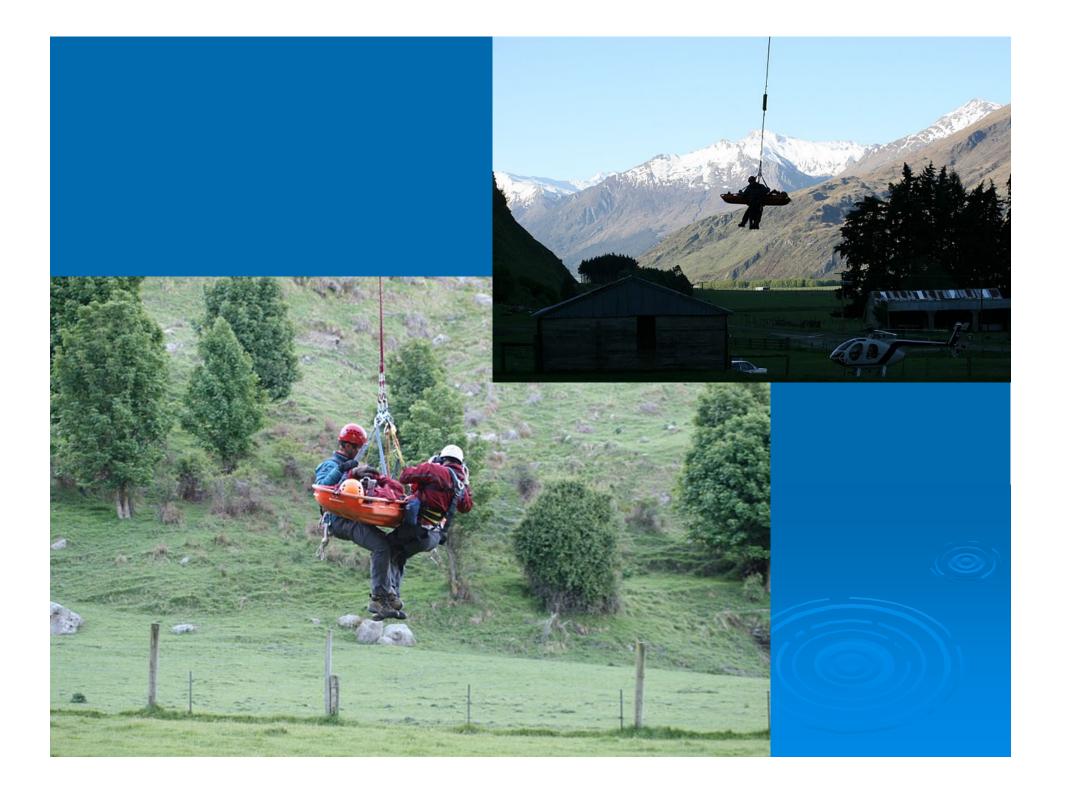










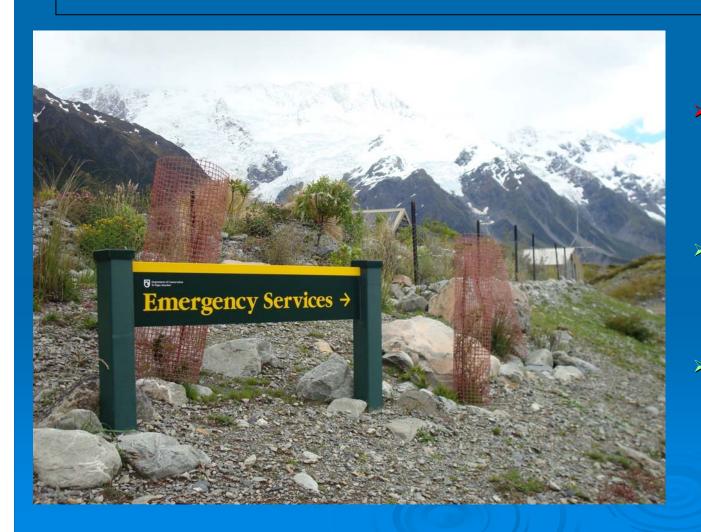






Today...

SAR is funded by DOC, and/by working agreement with the NZ Police - to provide an Alpine SAR service to the Aoraki/Mount Cook National Park



- Police pay for SAR 'Operational Costs'helicopters, food, lost gear.
- DOC pay for wages (training and Ops) and equipment.
- Cost DOC approx \$150,000 a year