Southern SAREX 2016 Operation BIG GLORY

7, 8, 9 October 2016 Hosted by Stewart Island SAR

What does good Planning look like:

A formal "appreciation" of the factors was conducted by S/Const Jenkins leading to well thought out plans for the SAREX. The NZSAR planning guide was also used to focus on the important factors. See appendix. The planning process was completed for the first operational period by the Stewart Island SAR group using the CIMS model and this process supported by the Southern district SAR coordinator.

The purpose of this SAREX

- To practice and test, Intel/Planning, Operations, Logistics, Field team Search methods, Communications systems when searching in isolated difficult Land/marine locations.
- To possibly resolve a 1991 Cold Case and find the remains of lost Hunter Joseph Carl
 Frieman

SAREX objectives:

- I. To test Logistics of moving Search teams to isolated Land/Marine search areas.
- II. To test the Incident Management teams ability to Manage Search for Missing hunter/s in an isolated dense undulating Podocarp Forest.
- III. To practice and test the capability of search resources
- IV. To practice and familiarise the use of the Search management tool SARTRACK
- V. To trail the Generic Stewart Island Lost Hunter Preplan.
- VI. To familiarise All search personal with LandSAR Health and safety plans and the Health & Safety at Work Act.
- VII. To familiarise Southern region Land SAR teams to searching on Stewart Island

EXERCISE OVERVIEW:

The SAREX will start on Friday the 7th October and finish at 1800 hrs on Sunday 9th October 2016.

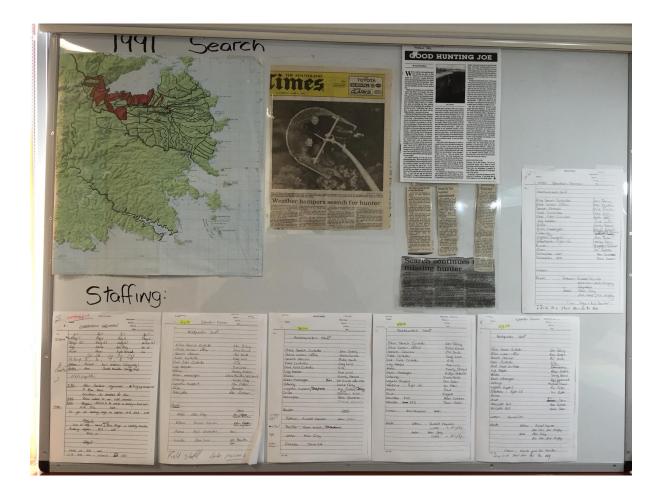
The Exercise will be based on the unresolved lost hunter Joseph Carl FRIEMAN who went hunting with three companions at Mid Glory hunting block on Stewart Island on the 27th of May 1991.

At 1300 hrs on Thursday the 30th of May 1991 Joseph went hunting alone behind the Mid Glory camp site. His intentions were to be back at camp before dark. Darkness falls at about 1730 hrs in May. FRIEMAN failed to return from the hunt. An extended search by Search and Rescue commenced the next day which failed to find any sign of FRIEMAN. Weather at the time of the search was extreme with rain, wind, and snow down to sea level.

Search Location: Big Glory Bay Stewart Island

IPP: NZTM E1227386 N4784204, NZGD 2000 E168 5.956 S 46 59.441

Mid Glory Hunting Block and surrounding hunting blocks in the search area are forested by a dense undulating podocarp forest. There are some steep ridges and bluffs in search area. It would be an advantage for each team to have a foundation rope trained and equipped person.



Operations & Logistics Overview

Briefing for Field Teams will be held at BLUFF on Friday 7th October prior to ferry travel to Stewart Island at 1630 p.m. All persons travelling on the Friday 1630 hrs ferry (as per attached spreadsheet). To be at BLUFF Ferry Terminal by 1530 hrs, Friday 7th October. Persons travelling over on the Friday 0930 hrs ferry sailing (as Per attached spread sheet) will have to be at Bluff Ferry terminal to check in at 0900 hrs.

- · Ferry bookings will be made by Stewart Island LandSAR for all persons attending the SAREX
- · Vehicle parking at Bluff Real Journeys have secure parking at a cost. Unsecure car parking in Barrow Street outside the Bluff police station
- · Field Teams will be taken direct to Big Glory Bay after a short stop at Halfmoon Bay. They will have to be packed and ready at Bluff to be deployed straight into the field. Sartrack team trackers and batteries will be issued at Halfmoon Bay Wharf

Field Teams: 4 Person teams (1 x team leader and 3 x team members)

- · Must be packed and prepared to be deployed into field prior to arrival at Bluff Ferry terminal.
- · Must have food, personal gear, and team gear (as per gear list in LandSAR Field Guide) sufficient for 2 x nights in field. Each team member to carry at least 1 x litre of fresh water.
- Each 4 person field team to bring 2 x HF Radios and 2 x batteries. 1 x HF Radio and batteries, first aid, GPS's, PLB (PLB no. to be supplied to IMT), camera. (Maps, Health & Safety, Comms Plan, Lost Person description and Team Tasking will be supplied by IMT at briefing in BLUFF).

Deployment To Big Glory Bay: The area is accessible by boat only and there are no formed campsites, i.e. teams will be tent/fly camping in the field. Water in all creeks is safe and drinkable. All hunting blocks surrounding search area have been booked for "Operation Glory" (i.e. no hunters in area).

- 1630 hrs 07/10/16 Travel by ferry from Bluff to Halfmoon Bay to drop off personal luggage and non-field persons.
- 1800 hrs (approx) Field Teams taken by Ferry directly to Big Glory Bay where they will be dropped off at landing sites by dinghy.
- · Search: As per Tasking and Briefing. (Live Sartrack tracking)

Egress from Big Glory

- Dingy pickup after 0800 hrs Sunday from Landing site.
- \cdot Teams transferred from designated landing sites to staging area IPP by dinghy and delivered to ferry.
- · To Ferry 11 a.m. Sunday 9/10/16
- · Ferry back to Halfmoon Bay. Walk to Community Centre.
- · Teams to be debriefed by Team Leaders prior to arriving at Halfmoon Bay.
- Team Leaders to be debriefed by IMT on arrival at Community Center.
- Showers available at Community Centre.
- · 1230hrs Meal then full debrief
- · 1430 hrs Travel to Wharf
- · 1500hrs Ferry Halfmoon Bay to Bluff

Accommodation for IMT and Support Staff:

- · IMT & Support Staff will be accommodated at either the RSA Pavillion, Ayr Street, Oban (Facilities include toilets and kitchen facilities. Showers at the Community Centre. Bring a stretcher/air mattress, sleeping bag); OR at Stewart Island Backpackers. All bookings at the Backpackers will be made by Stewart LandSAR.
- · IMT personal to leave ferry at on arrival at Halfmoon Bay.
- · Note: If IMT staff want other accommodation visit <u>www.stewartisland.co.nz</u> for available accommodation at market rates at own expense.
- · Meals: Operational IMT & Support staff will be catered for. Non-operational IMT & Support Staff self-cater (own Ration Packs).

- Lunch supplied to all staff 1230hrs Sunday 9th.
- The Island grocery shop 'Ship to Shore' has all grocery items available.

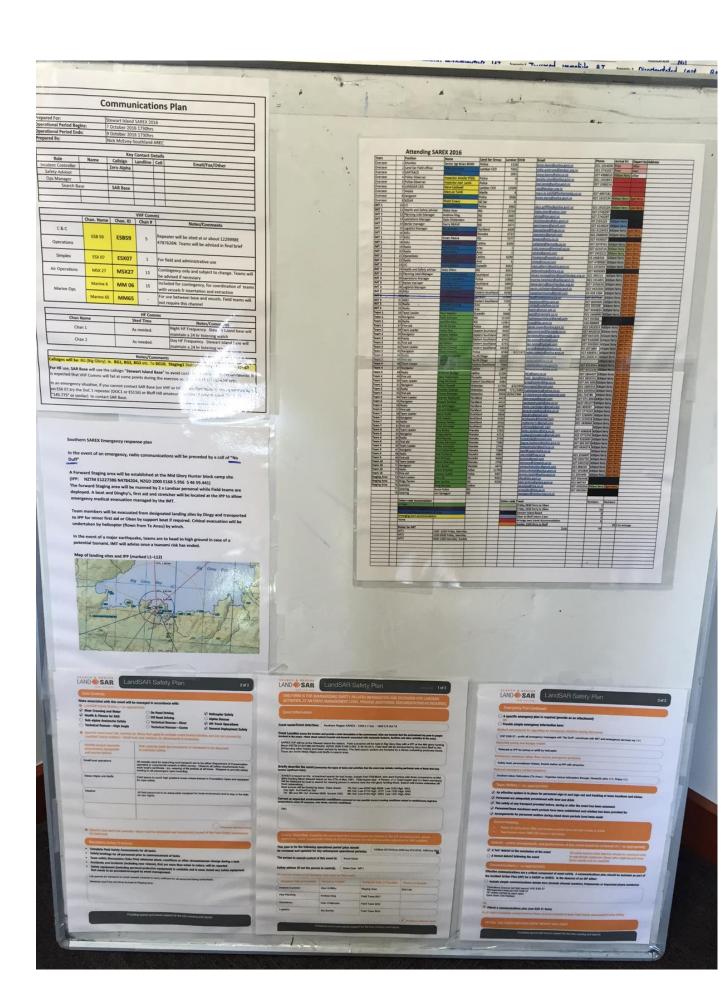
Stewart Island Backpackers and the Pavilion have well appointed kitchen areas.

What does good briefing look like:

Exercise participants were given good pre exercise information and joining instructions. They were met at the Bluff Ferry terminal were the briefing process was initiated ,while in transit to Stewart Island and upon arrival, radio's and SARTRACK transmitters were provided and the operators were briefed. Field teams were then taken to their search areas and transferred ashore.

Briefing Boards.







Briefing on SAR track transmitters , VHF + HF radio's





What does a good Incident control Point look like:

The Stewart Island Fire station was used as the search base for this exercise, it proved to be an excellent venue with a large room for IMT members, a separate room for the Radio shack, a small kitchen and a couple of spare offices for break out areas.

An area in the ICP was set aside for observers , media and other interested parties were ushered in and out of the ICP on a several occasions.

The ICP was calm and quiet, providing IMT members a great environment to work. Three shifts were prearranged for each 24 hr period. Early shift 0600 - 1400 and Late shift 1400 - 2200hrs were staffed with an Incident controller, Ops manager and assistant, Planning / Intel manager and a Logistics manager plus 3 MSU assistants and one person to manage the SAR Track system.

The night shift 2200 – 0600 was staffed by an Incident controller plus an assistant. The night shift did not have a lot of work to do but 24/7 coverage by the IMT was considered an important safety issue as we had 39 searchers camping in the field in a remote location.

All participants in this exercise had prior notice of their shift times and their role which gave each person the ability to do their own preparation.

The ICP had 6 computers running on SAR TRACK, one laptop was set up as the server with other machines all hooked together by a wireless router and allocated to the various CIMS functions.

A computer in the radio shack allowed the radio operators to record radio traffic as written messages directly into the SAR track log which was visible in the ICP. The intel manager was tasked with monitoring the messages and prompting any required action. At the completion of the 48hr exercise there were 1849 message entries onto the log.

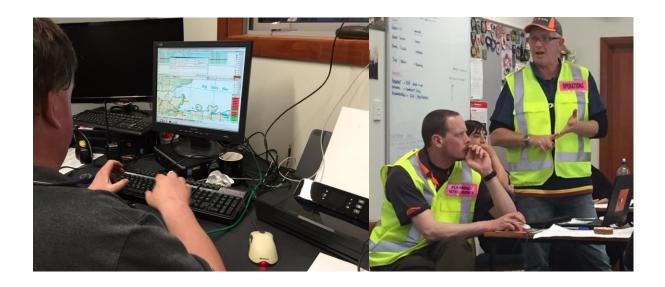
3 Computers in the ICP were connected to data projectors that were projected onto screens giving good visible to anyone in the room to all of the key information. The data being displayed was able to be changed depending on what the IMT wanted to see.

One of the major advantages of SAR track is the ability to provide remote access to real time information. The developer of the SAR track software, Bart Kindt was monitoring our search from Germany. Several other secure logon's were provided to other locations in NZ and Australia to prove we could run a search in the most remote part of NZ and at the same time allow secure real time access to our information around the world.

A manual backup system was displayed on three white boards the information was updated regularly by the MSU staff. Teams were called on the radio at 4 hr intervals and asked to report their position, progress with their task and any welfare issues. This information was totally separate to the SAR track system and designed to be used as a backup system for HS+E.

One week before the SAREX Stewart Island SAR members walked the search area and randomly dropped 100 envelopes. (10 in each search segment) The position of each envelope was recorded for later comparison with search teams GPS tracks. The clue board resembled a game of "battleships" (my favourite game from the 1970's.)





What does a good IMT look like:

Three shifts were prearranged for each of the two 24 hr periods. Early shift 0600 - 1400 and Late shift 1400 - 2200hrs were staffed with an Incident controller, Ops manager and assistant, Planning / Intel manager and a Logistics manager plus 3 MSU assistants and one person to manage the SAR Track system.

The night shift 2200 – 0600 was staffed by an Incident controller plus an assistant. The night shift did not have a lot of work to do but the 24/7 coverage by the IMT was considered an essential safety measure as we had 39 searchers camping in the field in a remote location. All participants in this exercise had prior notice of their shift times and their role which gave each person the ability to do their own preparation.

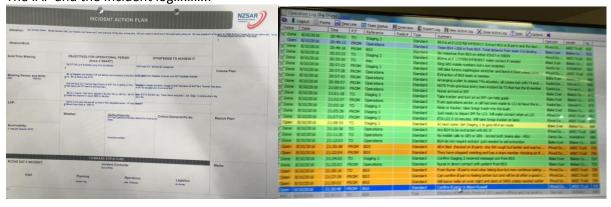
10	IMT 1 I/C	Alun Griffiths	
11	Health and Safety adviser	Blake Dyer	
12	Planning Intel Manager	Andrew King	
13	operations Manager	Dale Chittenden	
14	Sector manager	Garry NEAVE	
15	Logistics Manager	Stu Burnby	
16	MSU	Jean Kenney	
17	MSU	Gwen Neave	
18	MSU	Shelly Karena	
19	Radio	Nick Mcevoy	
20	Radio	Mike Bailey	
21	Operations	Cindy Dean	
22	Radio	Daniel Erickson	

23	IMT 2 I/C JOHN GILBERT	
24	Health and Safety adviser	Debs Dillon
25	Planning Intel Manager	Bevan McNaughton
26	operations Manager	Murray Hewitson
27	Sector manager	Stephen Parry
28	Logistics Manager	Aaron Nicholson
29	MSU	Natasha Munro
30	MSU	Lisa Morton
31	MSU	Leah Baron
32	Radio	Stephen Gosling
33	Radio	Brent Solin

Regular IMT meetings



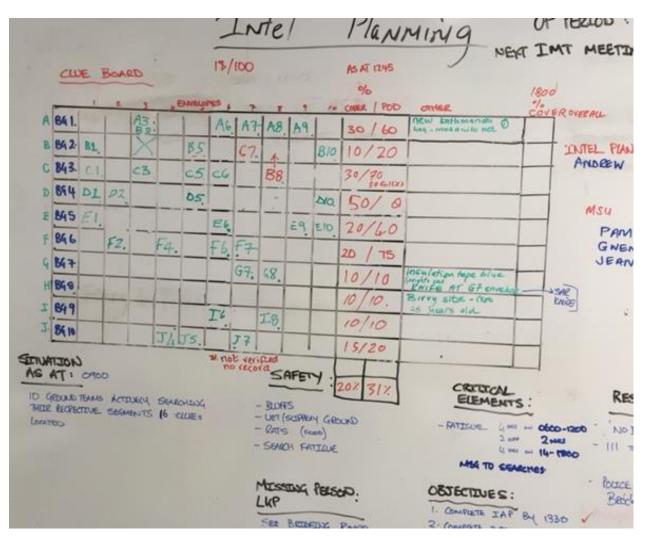
The IAP and the Incident log......



The use of SAR track has many advantages but as with all technology backup systems are a good idea. Key information can be easily read from whiteboards on the walls in the IMT.



Battleships – record finding the envelopes



Well managed shift handover & briefings





Stuart Island Operation "Big Glory" SARTrack analysis

As the developer of the SARTrack system, it is always important to be able to follow a large SAREX and to detect problems and find improvements to the software.

In this case I had limited options, being on the other side of the world; however I would like to report my opinion and findings.

Setup:

The initial setup by Adrian Dance was very lengthy, even with my remote help.

Unknown to us at the beginning, the location where the Tracking receiver and computer where installed had major interference on the radio frequency used by the APRS Tracking system.

As a result many hours where lost trying to discover what was wrong, and in the end this equipment had to be relocated to a property elsewhere in town. As the Voice radio system operates on a totally different frequency, this system worked perfectly.

Due to the time lost with this issue, there was not enough time to set up the local LAN/WIFI for the Local Database Server and all SARTrack clients while I was still available to help. The result of this was that the Local Database Server was not linked to the Internet Database Server during the first day, and I was not able to monitor the operation that day.

However, the local system worked well, which is why the design of having a Local Database Server at the Operation centre is so important.

Operation:

From what I have been able the follow, the use of SARTrack has worked quite well during the Operation. At the time of writing I have not yet been given direct feedback by the users, so I may have to amend my findings.

While there have been some issues relating to the Team information (People, Tasks) no longer being visible in the Team Setup window and an operator deleting Teams during the Operation, the primary Log system and Tracking worked well.

After requesting the Debug files from the Local Database Server and 2 SARTrack clients I was able to trace down some issues which will be rectified in the next Update, including additional safety against human error and the elevation of the required 'Access Level' to 'Supervisor' to perform certain actions, like deleting or clearing Teams.

It also reinforces the importance that appropriate Access Levels are given to all Database Users, most of which should be set as level 'Operations' and only very few as 'Supervisor'. In many cases the access level of 'DataEntry' should be enough.

Recommendations:

As can be read in the documentation on the SARTrack website http://www.sartrack.nz/ most setup issues should be sorted out in advance, by:

Have a permanent / portable WIFI Router with broadband Internet access available which is known to work properly with at least 10 PC's connected to it. Make sure the SIM card has always enough Internet access available.

A permanent Primary laptop computer with the latest Database Server and SARTrack client installed. This laptop should always be the first to go online when an Operation starts, and automatically connect to the WIFI unit above. The initial Operation details can be entered on same laptop, even when it is not yet onsite.

All Database users should have already been entered in the Local Database with the appropriate Access Levels.

All Team members ('People') of the local SAR group should be pre-entered with all their details. It is recommended that members of adjoining SAR Groups are also entered, so when a joint Operation starts, they are immediately available to be assigned to a Team.

When a Permanent Operation Centre and a Remote Operation Centre (in the field) are used, both should have their own Local Database Server, and link to the Internet Database Server to synchronize, as shown at this image: http://www.sartrack.nz/SARTRackNetwork.png
Any VHF Tracking system will require a connection between a (Base) Radio and a SARTrack computer. There should be a permanent combination of SARTrack Laptop & Radio & antenna system available at any time, to prevent setup problems. Possible even in a special suitcase.

Tracking:

Unfortunately not many New Zealand groups will be able to afford the special APRS Tracking system used by Central Otago SAR. This system operates on a commercial frequency in the EE band (funded by SARTrack Limited), and therefore requires the use of Type Approved radios.

Trackers and Digipeaters based on these radios where build by SARTrack Limited in the past, but due to lack of interest and time are no longer being produced.

In most other countries (especially Canada and the USA) Amateur Radio operators are heavily involved, and this allows the use of the APRS tracking system on the Amateur Radio bands, and the use of existing cheap off-the-shelf Trackers.

Some of these are very advanced and can connect to a smartphone via Bluetooth, so Teams in the field have full independent two-way communication to the Operations centre via APRS (without Internet required) including Messages and a Map on which they can see all other Teams and Objects. But as said, this requires Amateur Radio operators to be involved at various levels.

For all New Zealand SAR groups who do not have the APRS Tracking option, SARTrack can also track Teams based on Tait, Icom, Kenwood, Motorola and Hytera commercial radios with build-in GPS or an attached GPS microphone. In the future it may also be possible to transmit Text messages to Teams in the field, IF the rights radios are purchased (*) which enable this option. SARTrack can also decode Smartphone based trackers and some Satellite Trackers (but this requires Internet access and/or broadband) and AIS Shipping trackers.

Commercial Radio based tracking will never give the same detail as the APRS Trackers (which transmit every 30 seconds to a minute), and the range will generally be less due to the analogue Voice repeaters being used, instead of APRS Digital repeaters.

Still, it may be a good option for many New Zealand groups, and certainly better than having no Tracking option at all.

Finally: The Future.

The SARTrack software has been in development for 9 years now. With enormous amount of developer time and large costs, which are not covered by the occasional donations received.

5000+ copies have been installed all over the world, and users are found amongst Search and Rescue, Civil Defence, Emergency Services, Sheriff Departments and even Red Cross Volunteers.

However, one of the side effects of the heavy development is that proper documentation for the SARTrack software is lacking, as writing a proper manual takes a lot of time which I do not have. When any external funds would become available, this would enable me to hire an external Documentation writer (a specialized job) and have a proper User Manual / Training Manual written. After that, better SARTrack training sessions can be given across New Zealand.

Also, when support for this is forthcoming from New Zealand LandSAR and Police, it will be possible for SARTrack to upload the final results of a SAROP directly into the LandSAR website with a single click of the mouse, with full details included. It may also be possible to do same direct into the Police database system. This will be based on an XML file exchange, already in development by Dave Robertson from Dunedin LandSAR.

It will greatly improve the available statistical data for LandSAR and Police on actual SAR operations, Member hours used, Travel time/costs for Members, etc. and possibly coroner inquests.

If New Zealand LandSAR & Police (and possibly Civil Defence) are serious about using SARTrack, I will be back in New Zealand again from 7 November, and am quite happy to discuss options for the future.

Sincerely,

Bart Kindt Developer and CEO SARTrack Limited (*) The future purchase of new Radios by LandSAR should be in coordination with people and organisations which understand the requirements, as should have been done when the first radios where purchased years ago, while the Tracking or Teams issue was well known at the time. Future radios should possibly be Digital/Analogue radios as used by many SAR organisations in the world now, which have better range and two-way messaging capability.

What does a good Field team look like:



Southern SAR is made up of 11 Land SAR groups and three Policing areas, selecting the forty searchers to be spread across the Ten search teams had the potential to cause problems.

The selection process began with advertising the exercise and circulating invitations to each SAR group and Policing area to nominate qualified searchers to fill the positions.

Each SAR group did their own initial selection process for participants and this resulted 60 applications being submitted to the Stewart Island SAREX IMT for the 40 positions, selections were made by the hosting group's IMT and a draft was circulated followed by several amendments right up to the day of the exercise.

The waiting list worked well for us, the inevitable last minute changes were easily managed and the end result was that we only had one field team position that was not filled.

Overall, this process worked very well and we will use this system for future district wide SAREX. Over subscription is a health sign that we are providing a quality SAREX. Allowing the local groups training officer to do the initial screening was a key factor.

Field team members were allocated specific roles.

34	Team Leader	Paul Haddon	
35	Navigator	Kath Johnson	
36	Radio	Jennifer Ross	
37	First aid	David Cowie	
38	Team Leader	Aaron Gay	
39	Navigator	Alistair Robbie	
40	Radio	Naomi Wilson	
41	First aid	Ian Wilson	
42	Team Leader	Carne Clissold	
43	Navigator	Adam Roberts	
44	Radio	Danny Fountaine	
45	First aid	Johny Gilbert	
46	Team Leader	Virginia Carter	
47	Navigator	Allan Bichan	
48	Radio	Rachael Wilson	
49	First aid	Dave Robertson	
50	Team Leader	Greg McIntosh	
51	Navigator	Alison Russell	
52	Radio	Malaika Dickson	
53	First aid	Christy Brennan	
54	Team Leader	Warren Dewhurst	
55	Navigator	Russell Dickson	
56	Radio	Les McFadgen	
57	First aid	Gerard Middleton	
58	Team Leader	Barry Smith	
59	Navigator	Erin Hawke	
60	Radio	Rodney Barker	
61	First aid	John Kennedy	
62	Team Leader	Roy Bailey	
63	Navigator	Craig Adams	
64	Radio	Rich Raynes	
65	First aid	Rod Walker	
66	Team Leader	Mike Johnston	
67	Navigator	Paul Sutherland	
68	Radio	Rob Porteous	
69	First aid	Ben Mulvey	
70	Team Leader	Glenn Sherston	
71	Navigator	John Burke	
72	Radio	Brent Mitchell	
73	First aid	Nick Wells	

What does good debriefing look like:

IMT Download all GPS and Interview team leaders using the debrief forms. Highlight any issues and future search tasks....



100 Envelopes were randomly distributed throughout the search area and their location was recorded by GPS then uploaded into the SAR track system, as teams located the clues they recorded the find by pushing a button on the APRS tracker and then made a voice call to search base.

Approximately half of the proposed search area was covered during the exercise and 36 Envelopes were located, by this measure the quality of search was estimated at 72%, this was backup by the other team debriefing methods.

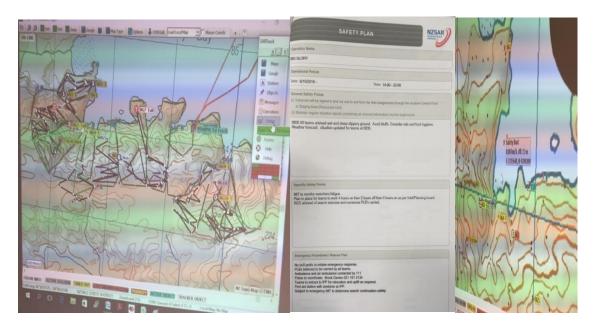
During the process of placing the clue's a pocket knife was lost, during the search of the area it was located and returned to the owner. Another Good measurement of a quality search !!



Dale's pocket knife.....

A few days after the exercise a "Survey Monkey" survey was circulated to gauge the level of satisfaction with the SAREX and provide direction for next years event.

What does Good HS&E look like:



The Initial selection of SAREX participants with the required skills using the competencies framework and checking to ensure all participants have the required equipment for the exercise.

All of the hunting blocks in the area were booked for the SAREX

Teams were advised to include at least one members with rope skills and qualifications

Detailed Safety briefing of all participants was carried out in several stages and locations to ensure the right people got the right information at the right time.

Briefing and equipment checks at Bluff and on the ferry across Foveaux strait, radio's and SAR Track transmitters were issued at Halfmoon bay.

Use of the land SAR safety briefing forms to evidence what was delivered.

Take 5 forms by the team leaders

Live tracking of all teams is the biggest step forward in HS&E for SAR, this was backed up by 4 hr sitreps, welfare checks. Team fatigue levels were regularly checked and rest periods were managed by team leaders and monitored by the IMT

Life jackets and specific safety briefs for the transfer of searchers form the ferry to their search areas, both of the boats were under marine survey.

Search manager briefing the VIP's



What does a good spread look like:

Crayfish, Salmon, Venison, Mussels + some Greens....



What does good media management look like:

Invercargill SAR Sgt Brock Davis filled many roles during the SAREX including media manager, local knowledge, search manager for a real SAROP and Relieving Stewart Island Policeman for the duration of the SAREX.

TV3 (NewsHub) showed a 2 minute feature on the 6pm news highlighting the cold case and new technology. TV1 featured a web article on the exercise.

The Southland Times sent a reported to cover the exercise and did articles prior to and post exercise. It was also covered by the NZ herald and the Otago daily Times

The stuff web site put together a 4 minutes documentary feature on the SAREX. Radio NZ covered the exercise.

Thanks to Josie Cochrane at the Police Media Hub and all of the staff who helped showcase the important work that SAR people do.





Links to the media releases:

http://www.stuff.co.nz/southland-times/85104521/cold-case-reopens-as-s

 $\underline{https://www.tvnz.co.nz/one-news/new-zealand/new-transmission-tool-fails-unearth-clues-into-cold-case-missing-hunter-stewart-island}$

https://www.police.govt.nz/news/release/stewart-island-sar-exercise-complete-photos-videos

https://www.police.govt.nz/news/release/stewart-island-sar-exercise-test-sartrack-tool

http://www.newshub.co.nz/nznews/search-teams-tackle-stewart-island-cold-case-25-years-on-2016100911

http://www.stuff.co.nz/southland-times/83142187/search-used-worldwide-to-save-lives

http://www.nzherald.co.nz/nz/news/article.cfm?c id=1&objectid=11724248

https://www.odt.co.nz/regions/southland/search-teams-revisit-stewart-island-cold-case

http://www.radionz.co.nz/news/national/315036/police-use-new-tool-to-search-for-hunter-missing-since-1991

Operation BIG GLORY Lesson learnt

 On Saturday night teams were asked to provide a Radio Sked at 2000rs during the radio sked teams were asked to provide a welfare check on all team members. One team leader reported one of his team had been unwell and vomiting, now resting in her sleeping bag and being monitored by other team members

The IMT read the report on the operational log and wanted more information however shortly after completing the report the team leader turned off their radio to conserve batteries so the management team were unable to make radio contact.

Attempts to contact other nearby teams had the same result. The safety boat was dispatched to use their loud hailer and get the team to turn their radio back on and once this was achieved and radio contact was established the IMT eventually became satisfied that no further action was needed.

Attempts to obtain medical history records for the sick searcher highlighted the need to ensure that next of kin details for all Land SAR members are kept up to date.

The main lesson for SAREX & SAROP is that all field teams is to maintain at least one form of contact with the IMT at all times.

2. The IMT did not have a radio going in the ICP and were reliant upon reading messages on the event Log. The Intel manager was tasked with reading the message board. There were 1849 messages on the log by the end of the SAREX. I am aware of a few messages that went unnoticed and were not actioned by the IMT. Most of the messages were entered by the two radio operators. Colour coding of priority messages and a system for ensuring information is not missed needs to be developed. Consider putting a Management support person in the radio room to assist with message entry.

- 3. The SAR Track screen displaying the real time location of teams became the focus of search managers during the search. This is understandable given the exercise scenario, however, the IMT must keep focused on the Incident action plan.
- 4. The Friday evening "HF" radio sked with field teams was not successful, probably due to being too close to the receiving station. On Saturday evening some field teams were able to make contact with a Dunedin SAR person by HF. Field teams need to continue to train in the use of HF radio.
- 5. The successful use of SAR track during SAROPS will require a larger IMT than we have been used to in the past, they will need the technical skills needed to problem solve issues such as the SAR track repeater located in Big Glory bay had to be moved to provide full coverage of all teams and The SAR track Local Database Server was not linked to the Internet Database Server during the first day of the exercise. See Bart Kindt's report for more details
- 6. The quality of preplanning is the main factor for the success of SAREX and SAROPS

APENDIX:

Survey Monkey Results:

Summary:

41 responses

87% said the level of challenge was about right 99% of participants were Very Satisfied with the SAREX

Operation BIG GLORY

- Analyze Results
- Collect Responses
- Design Survey
- Summary

RESPONDENTS: 41 of 41

Share AllExport All

• U Question
Summaries

tData
 Trends



How clearly was the PRE SAREX information presented?

Answered: 41

Skipped: 0

Extremely clearly Very clearly Moderately clearly Slightly clearly Not at all clearly Other (please specify)

0%10%20%30%40%50%60%70%80%90%100%

Answer Choices—	Responses—
_	26.83%
Extremely clearly	11
_	60.98%
Very clearly	25
_	9.76%
Moderately clearly	4
_	0.00%
Slightly clearly	C
_	0.00%
Not at all clearly	C
_	2.44%
Responses	1
Other (please specify)	
Total	41

Q2 **Export** Customize

Was the SAREX too challenging, too easy, or about right

Answered: 40

Skipped: 1

much to challenging some what too challenging about right a little too easy much too easy Other (please specify)

0%10%20%30%40%50%60%70%80%90%100%

nswer Choices—	Responses—
_	0.00%
much to challenging	C
_	2.50%
some what too challenging	1
_	87.50%
about right	35
_	5.00%
a little too easy	2
_	0.00%
much too easy	C
	5.00%
Responses	2
Other (please specify)	
Total	40



How clear were the objectives of this SAREX

Answered: 41 Skipped: 0

Extremely clearQuite clear Moderately clear slightly clear Not at all

clear

0%10%20%30%40%50%60%70%80%90%100%

Answer Choices—	Responses—
_	53.66%
Extremely clear	22
_	39.02%
Quite clear	16
_	4.88%
Moderately clear	2
_	2.44%
slightly clear	1
_	0.00%
Not at all clear	0
Total	41

Q4	
Export	
Customi	ze

Overall, were you satisfied or dissatisfied with this SAREX

Answered: 40

Skipped: 1

Extremely satisfied Very satisfied Somewhat

satisfied Somewhat dissatisfied very dissatisfied 0%10%20%30%40%50%60%70%80%90%100%

nswer Choices—	Responses—
_	47.50%
Extremely satisfied	19
_	52.50%
Very satisfied	21
_	0.00%
Somewhat satisfied	0
_	0.00%
Somewhat dissatisfied	0
_	0.00%
very dissatisfied	0
Total	40

Q5
Export
Customize

For next year's SAREX would you prefer a traditional style SAREX such as this one or a Rogain style SAREX

Answered: 41

Skipped: 0

traditionalRogain Other (please specify)

0%10%20%30%40%50%60%70%80%90%100%

nswer Choices-	Responses—
_	73.17%
traditional	30
_	9.76%
Rogain	4
_	17.07%
Responses	7
Other (please specify)	
Total	41

Q6
Export
Customize

How organised was the SAREX

Answered: 41

Skipped: 0

extremley well
organised
very well
organised
about averagebelow average
Not at all
organised
Other (please

specify)

0%10%20%30%40%50%60%70%80%90%100%

Answer Choices—	Responses—
_	58.54%
extremley well organised	24
_	39.02%
very well organised	16
_	2.44%
about average	1
_	0.00%
below average	0
_	0.00%
Not at all organised	0
_	0.00%
Responses	0
Other (please specify)	
Total	41

Export

Customize

Overall, how would you rate this SAREX

Answered: 41
• Skipped: 0

ExcellentVery goodAveragebelow averagePoor Other (please

specify)

0%10%20%30%40%50%60%70%80%90%100%

nswer Choices—	Responses—
_	56.10%
Excellent	23
_	43.90%
Very good	18
_	0.00%
Average	0
_	0.00%
below average	0
_	0.00%
Poor	0
_	0.00%
Responses	0
Other (please specify)	
Total	41

Q8
Export
Customize

How useful was this SAREX towards your SAR training needs

Answered: 41

Skipped: 0

Extremely useful Quite useful moderately usful slightly useful not at all useful Other (please specify) 0%10%20%30%40%50%60%70%80%90%100%

	ses—
_	39.02%
Extremely useful	16
_	43.90%
Quite useful	18
_	14.63%
moderately usful	6
_	2.44%
slightly useful	1
_	0.00%
not at all useful	C
_	0.00%
Responses	C
Other (please specify)	
Total	41

Q9 **Export Customize**

What was your role in the SAREX

Answered: 41

Skipped: 0

IMTField team

Other (please specify) 0%10%20%30%40%50%60%70%80%90%100%

Answer Choices—	Responses –
_	34.15%
IMT	14
_	43.90%
Field team	18
_	21.95%
Responses	9
Other (please specify)	
Total	41

SAREX Guidelines

Analyse SAREX Need

1. Establish SAREX planning

NZ Police Landsar (Mike Ambrose) AREC (Nick Mcevoy) Rakiura Stewart Island Landsar Bluff Coastguard

2. Identify Trends and predictions response need and asset assessment

Trends and Predictions

- Continued constant incidence of Lost/Injured/ Deceased Hunters in Southern Region.
- Most outdoor activity expected to remain constant.
- Predicted incidents will be Moderate/Serious/Fatal. (Fatal Hunting incident 23/03/15
 Abrahams Stewart island) (Fatal Hunting incident 15/04/14 Longwood's Southland)
 (Numerous search for lost hunters throughout Southern SAR District.)
- Use of Doc and Rakiura Maori Land hunting blocks on Stewart Island predicted to remain constant or Increase.
- Recent Search's on Stewart Island have required the coordinated use of Police, Landsar,
 Marine and Air assets.
- Terrain on Stewart Island is Isolated, thick coastal Podocarp vegetation which extremely difficult to navigate and is usually affected by changeable extreme weather patterns.
- Active missing person file for Hunter lost and still not located in proposed SAREX location.

Response needs

- Day/night and all weather capability for Sar response to Isolated parts of Stewart island and Southland where hunters frequent...
- Small active Landsar Group on Stewart Island which requires the support of surrounding Landsar/Arec/Coastguard/Police groups to manage Serious and prolonged SAR incidents.
- Injured/fatal/lost hunters in both Forrest and the marine environment.

Asset Assessment

• Generic preplan for lost hunter on Stewart island to be tested.

3. Summarise Need

The Continued constant incidence of Lost/Injured/ Deceased Hunters in the Southern SAR Region requires increased training to improve skills and system management in both the land and marine environment. To successfully find/locate Lost/injured/deceased hunters trampers/kayakers.

- 4. Specify the purpose of this SAREX
 - To practice and test, Intel/Planning, Operations, Logistics, Field team Search methods, Communications, and systems when searching in isolated difficult Land/marine locations.
 - To possibly resolve a 1991 Cold Case and find the remains of lost Hunter Joseph Carl Frieman.
- 5. Determine Specific SAREX objectives:
 - VIII. To test Logistics of moving Search teams to isolated Land/Marine search areas.
 - IX. To test the Incident Management teams ability to Manage Search for Missing hunter/s in an isolated dense undulating Podocarp Forest.
 - X. To practice and test the capability of search resources
 - XI. To practice and familiarise the use of the Search management tool SARTRACK
 - XII. To trail the Generic Stewart Island Lost Hunter Preplan.
 - XIII. To familiarise All search personal with LandSAR Health and safety plans and the Health & Safety at Work Act.
 - XIV. To familiarise Southern region Landsar teams to searching on Stewart Island
- 6. Select exercise name: GLORY
- 7. Establish the Budget: \$10,000.00
- 8. Obtain Lead/Joint Agency Authority. Police District Commander sign off
- 9. Seek Lead/Joint agency participation plus phone calls:
 - NZ Police
 - Landsar
 - St Johns/Prime
 - Coast Guard
 - Department of conservation
 - AREC
- 10. Set key Performance indicators (KPIs)
 - I. Incident management team and Monitors produce reports on Management performance
 - II. Update Lost hunter preplan
 - III. Search resources are measured against active and passive search methods. (Numbered Clues placed in each teams search area to test probability of success.)
 - IV. Preplan amended.
 - V. All search documentation completed to an operational standard to attach to the Police Frieman Cold case missing person file.
 - VI. Health and safety Plan test and records of all incidents/misses and near misses captured and recorded
- 11. Develop exercise scenario.

- See attached Initial Missing person report for Unresolved 1991 Cold Case Joseph Carl FRIEMAN.
- 12. Evaluate plan against training needs: Meets needs and a SAREX is appropriate
- 13. Exercise Controllers

15 staff 3 x incident Management teams (I/C,IP,O,Log, Safety officer)

6 x AREC Staff 2 per shift

9 x MSU unites 3 per shift

40 Maximum of 10 x 3 person search teams (T/L 10 T/M 30)

Staging area 3 x Dingy and Dingy persons.

- 2 x Forward Staging Managers
- 2 x Monitors

St Johns/Prime (Standby)

2 x Repeaters

VHF Radios 2 per team.

IMT Computers

77 Persons in Total (11 x persons from Stewart Island)

- 14. Confirm Announce Exercise: 1530 hrs 7/10/16 to 1730 hrs 9/1016 Location Stewart Island
- 15. Develop Detailed events: Detailed Operation plan to be developed by Dale Jenkins
- 16. Develop Exercise Safety Plan: To be completed by Dale Jenkins
- 17. Develop exercise control rules: ????
- 18. Appoint Exercise Monitors (local and external) and define their role:

External Monitor: Brian BENN Incident Management team Activities/Systems: Brian BENN

19. Confirm Multi Agency Participation:

a. Police Confirmedb. Landsar Confirmedc. AREC Confirmedd. St John/Prime Standby