

THE INITIAL RESPONSE

Initial Action

SAR Response Periods

Management Structure

Tools and Concepts

Putting it all together – a worked example

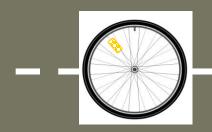
Scenario Exercise



Response Periods- Overview

Risk Management

Information Gathering



Reflex Task

Formal Search Planning

Initial Response Period

First Operational period



Second Operational Period



Initial Response Tools and concepts- Management Structure and Functions

Incident Controller

Information

Safety

Liaison

Planning Intelligence

Operations

Logistics

Response assets



Initial Response Tools and concepts-Action planning

Goal

Find the person

Objectives

What needs to be achieved in the initial response

Strategies

Best ways to accomplish the objectives

Assignments

Tasks and resources needed to implement the strategy



Initial Response Tools and concepts-Action planning example

Goal

Find the person

Objective

Search intended route

Strategy

Sound line, sign cut decision points

Assignments

Team of 3 with tracking capability. 4 WD transport.



Initial Response Tools and concepts-

Response Guidelines

RESPONSE GUIDELINES

These guidelines contain suggested actions to take for a typical land search operation. You neet tailor your response to meet the unique needs of the particular incident so the order in which you exclude the search of the property of the particular incident so the order in which you

LAND

Actions Required	Details		Com			
Receive initial notification	Obtain details from the informant who is reporting the subject missing – use the Initial Missing Person. Report Form.					
	It is very important that the informant's name, location (now and in foreseeable future), phone number and all other contact details are obtained so that follow-up enquiries can be conducted.					
Gather information & start documenting the search effort	Use Missing Person Report (MPR) or Lost Person Questionnaire (LPQ)					
	Gather information	Gather information for search urgency assessment				
	Ascertain LPB ca	Ascertain LPB category of missing person				
	Commence operational log					
	Document all information received and actions taken - use jobsheets					
Conduct Search Urgency Assessment Use Search Urgency (Back Country) Assessment Form	Urgent Response (10-15)	Requires an immediate response for a seriously 'at risk' subject				
	Measured Response (16-27)	A non urgent response which may involve some of the following actions: Gathering of more information about the subject and search area (weather, terain etc) Placement of containment Leaving a note on the subject's vehicle - and perhaps signout for DOT Checking high hazard areas and likely spots Prepare for action – place resources on standby Plan for a urgent response				
	Evaluate & Investigate (28-41)	Continue to gather information about the subject and the potential search area (weather, terrain etc) Prepare for action – place resources on standby				

RESPONSE GUIDELINES Actions Required Details Comm

Actions Required	Details		
Consult	Relevant SOPs, DMPs, Pre-plans or other response plans		
Commence Investigative function	Gather planning, searching and risk management data		
mvesugauve function	Identify gaps in information and other possible sources – use the Information Collection Plan Form		
	For suburban search consider use of media and other area canvas tactics such as flyers		
	Develop a subject profile		
	Consider scenarios (including criminality & ROW etc)		
	Start a timeline including the actions and factors affecting the subject		
	Periodically review and monitor the situation by undertaking further search urgency assessments		
	Remember to initially go wide and don't rely on single source information – try to corroborate all information received		
Call out anticipated resource needs	Establish assembly point and consider appropriate location for ICP		
	Refer to your call-out procedures		
Commence Planning	Some logical steps in the process:		
	Conduct assessment of the situation – the circumstances of the incident and what actions have already taken place		
	Consider what factors are likely to impact on the planning (the contingencies – what will make it worse)		
	Establish an operational time frame for the Initial Response Period		
	Allocate IMT functions (roles and responsibilities) as determined by span of control or operational need		
	Consider facilities such as a Staging Areas etc		

RESPONSE GUIDELINES

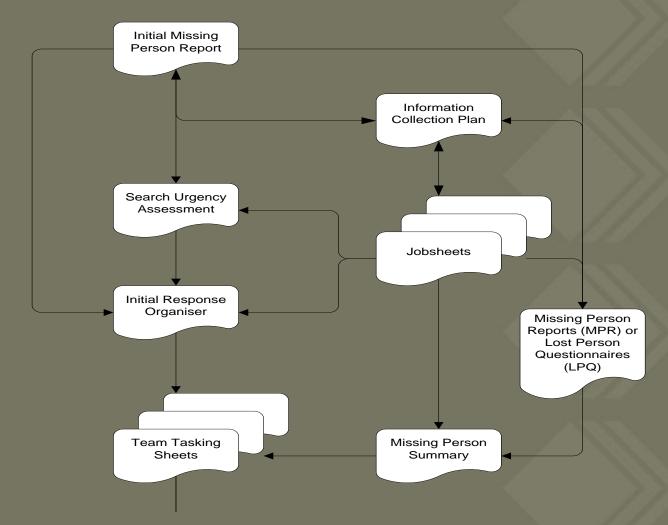


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ctants ctants t/s and searchers s/Decision Points information and couch as:		9
such as:	onsider scenarios	
8. Analyse available information and consider scenarios Consult LPB data such as: Behavioural traits Find locations Scenarios Mobility and survivability Dispersion angles Track offsets Investigative questions Reflex actions		
Continue building comprehensive subject profile and scenarios		
10. Complete responsiveness –mobility matrix		
Responsive	Unresponsive	
	omprehensive su	omprehensive subject profile

3.50

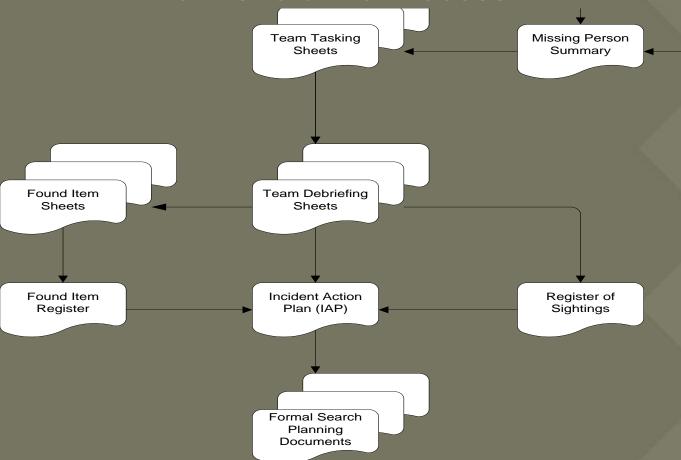
LAND SAR

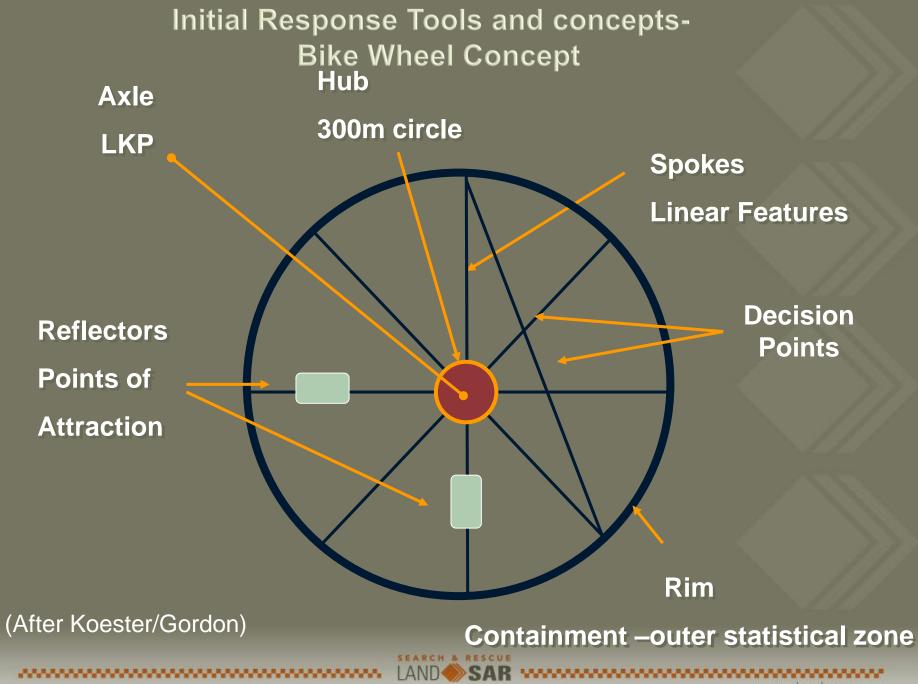
Initial Response Tools and concepts-Forms to drive Process





Initial Response Tools and concepts-Forms to drive Process





Initial Response Tools and concepts-Missing Person Matrix

	Mobile	Immobile
Responsive	Mobile Responsive	Immobile Responsive
Unresponsive	Mobile Unresponsive	Immobile Unresponsive



Initial Response Tools and concepts-Initial Response Organiser

INITIAL RESPONSE ORGANISER



Initial Response Period						
Operation name:	Date:		Situation summar	y: (brief circumstances	and action taken)	
Subject's name:	Time from:	Time to:				
Incident Co	Liaison: Info: Safety:					
Planning/Intelligence Operation	Log	gistics	Goal:			
Factors: (that you need to consider when formulating a plan)	orities Incident objectives achieve during this of make them *SMART	perational period -	Strategies (method objectives)	lologies to achieve your	Resources needs the job)	(what you need to do
Consider: Confinement Commun	nications	☐ Decision Points ☐ NVG	☐ Sign Cutting ☐ FLIR	_	□ 300m Circle □ Hot Spots	Attraction

	Log of Actions And C	Operational Taskings	
Time	Actions/Operational Taskings		Initials
_			
-			
Commu	nioations plan:	Safety plan: (identify hazards and implement contr	ni
		measures to either eliminate, isolate or minimise)	
		Remember - Responder safety is the highest priority	



Putting it all together- an example

Initial Notification

The start of documentation and collection of planning information





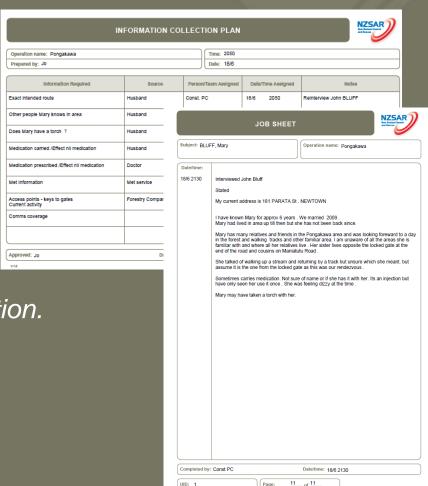
Gather Information

Pursue an appreciation of the situation

Use the Forms and other Logs

They provide prompts and record information.

It all documents the search effort



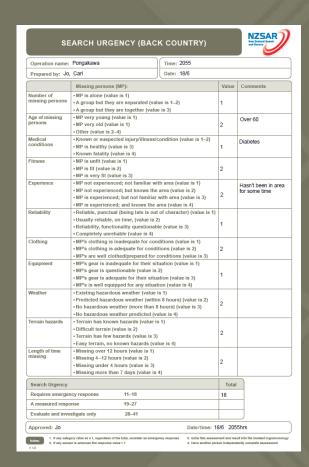


Conduct Search Urgency Assessment

Example calls for an emergency response.

Consult S.O.P.'s, Pre plans, Response plans

There may be relevant information as to the area based on past searches eg communications, access, local area knowledge.

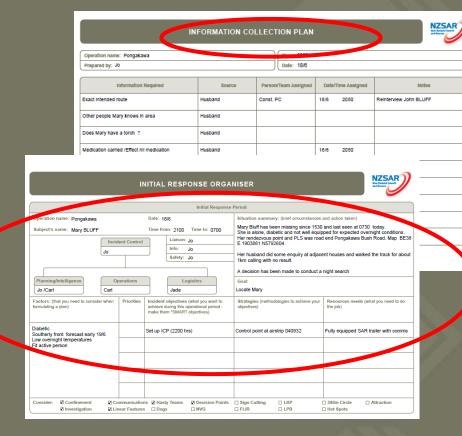




Keep investigating

Call out anticipated resources

Plan the Incident





Plan the Search

Consider

- Subject type
- Theoretical
- •300m

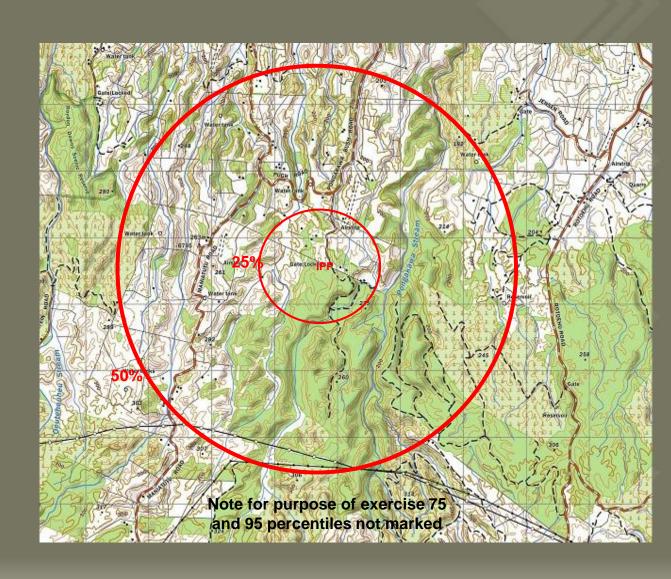
Mark

- •LKP
- •Statistical 25% 1.1 km

50% - 3.1 km

75% - 5.8 km

95% - 18.3 km

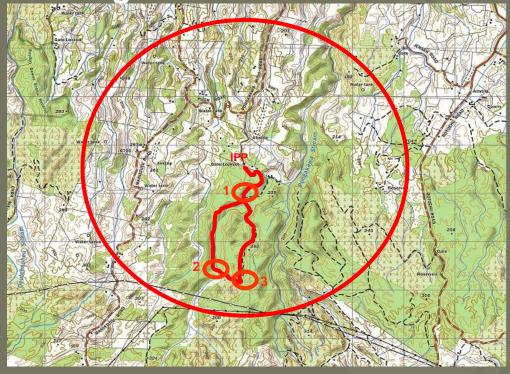




Plan the search.

Determine Initial Tasks

Draw intended route on map



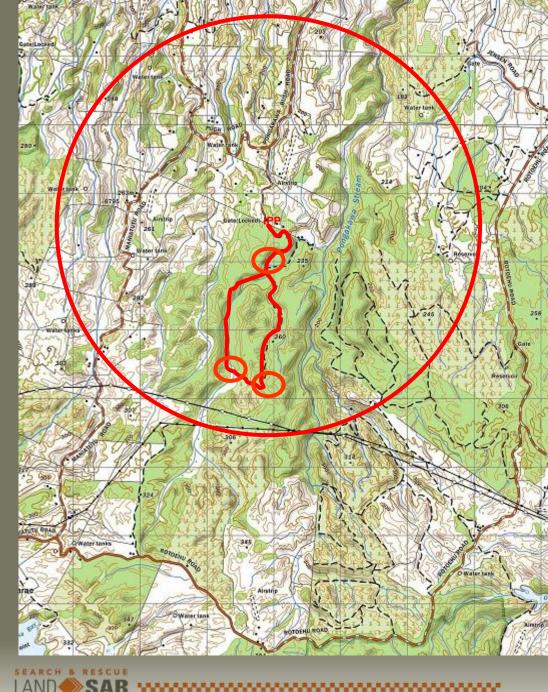
Identify major D.P's



Plan the search. **Determine Initial Tasks**

Consider:

- Contingency routes
- Likely linear features
- Attractants
- •Hazards
- Containment points

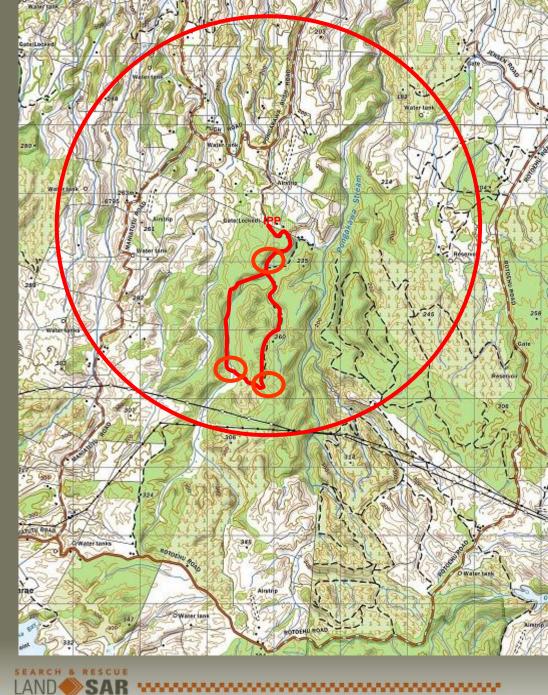




Plan the search. **Determine Initial Tasks**

Consider:

- Scenarios
- Behavioural traits
- Find locations
- Mobility
- Profile- keep building profile and awareness by investigation





Plan the search. **Determine Initial Tasks**

Incident Control

Operations

☑ Communications ☑ Has

☑ Linear Features □ Dogs

Carl

Operation name: Pongakawa

Subject's name: Mary BLUFF

Planning/Intelligence

formulating a plan)

May have a torch Knows people in area

Diabetic

Factors: (that you need to consider when

Southerly front forecast early 19/6 Low overnight temperatures Fit active person

75% day walker found within 5.8 km

Confinement

✓ Investigation

INITIAL RESPONSE ORGANISER

Time from: 2100 Time to: 0700

Liaison: Jo

Safety: Jo

Logistics

Incident objectives (what you want to

achieve during this operational period -

make them *SMART objectives)

Search intended route (0700hrs)

Contain search area (0700hrs)

Decision Points

Est comms (2230 hrs)

Initial Response Period

1km calling with no result.

VHF. Repeater to 049918

□ LKP

Sound Light line

Locate Mary

objectives)

Situation summary: (brief circumstances and action taken) Mary Bluff has been missing since 1530 and last seen at 0730 today. She is alone, diabetic and not well equipped for expected overnight conditions. Her rendezvous point and PLS was road end Pongakawa Bush Road. Map BE38 Her husband did some enquiry at adjacent houses and walked the track for about A decision has been made to conduct a night search Strategies (methodologies to achieve your Resources needs (what you need to do the iob) Control point at airstrip 040932 Fully equipped SA cailer with comms Repeater, Vehicle via forest track 2 teams overnight gear . Transport 3 x 4 wheel drive vehicles and drivers Drive roads, tracks,pylon route. Airstrip Interview occupants houses en route 300m Circle



Articulate the plan.

INITIAL RESPONSE ORGANISER Initial Response Period Operation name: Pongakawa Date: 18/6 Situation summary: (brief circumstances and action taker Mary Bluff has been missing since 1530 and last seen Subject's name: Mary BLUFF Time from: 2100 Time to: 0700 She is alone, diabetic and not well equipped for expect Her rendezvous point and PLS was road end Pongaka Incident Control E 1903881 N5792604. Info: Her husband did some enquiry at adjacent houses and Safety: Jo 1km calling with no result. A decision has been made to conduct a night search Planning/Intelligence Operations Logistics Jo /Carl Jade Locate Mary Factors: (that you need to consider when Priorities Incident objectives (what you want to Strategies (methodologies to achieve your Resources no formulating a plan) achieve during this operational period objectives) the job) make them *SMART objectives) Diabetic Set up ICP (2200 hrs) Control point at airstrip 040932 Fully equippe Southerly front forecast early 19/6 Low overnight temperatures Fit active person Est comms (2230 hrs) VHF. Repeater to 049918 Repeater, Vel May have a torch Knows people in area Search intended route (0700hrs) Sound Light line 75% day walker found within 5.8 km 2 teams over LKP Contain search area (0700hrs) Drive roads, tracks,pylon route. 3 x 4 wheel di Interview occupants houses en route Confinement ☑ Communications ☑ Hasty Teams ☑ Decision Points ☐ Sign Cutting □ LKP 300m Circle ⊔ миласион ☑ Linear Features □ Dogs Investigation ■ NVG □ FLIR □ LPB ☐ Hot Spots

	Log of Actions And	Operational Taskings	
Time	Actions/Operational Taskings		
2110	Const. Bruce H/ Ben J tasked to set up ICP		Jo
2120	Team 1 take and set up repeater to 049918. Drive forestry roads between 075907 and 076885		
2145	Team 2 sound light line true left Pongakawa Str starting road end 038926		
	Team 3 sound light line walking tracks starting	road end 038926	
2215	Team 4 drive pylon access routes between Manattutu and Rotoehu Rd both ways .		
	Return along access routes stop every 200m, use hom, lights/engine off listen/look		
2230	Team 5 drive Maniatutu Rd from Pugh Rd to Intersection Rotoehu. Stop at houses ,interview		
2250	Team 6 drive forestry roads between and north	of 076885 and 007879	
Radio VHF SI Du Phone	mications plan: mpiex EBX 07 piex EB857 (Some coverage) ne IOP 021 345721	Safety plan: (identify hazards and implement continuasures to either aliminate, isolate or minimise) Limited comms All teams to carry celliphones(noes. noted), VHPLB's Siteep terrain No night search in these areas Deteriorating weather conditions All teams to be briefed to Wix and suitably equ	IF and
		Remember - Responder safety is the highest priority	
Approv	Approved: Jo Date/time: 2110		



Implement the Plan.

- Allocate resources
- Manage Risk

Time	Actions/Operational Taskings			
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Log of Actions And Operational Taskings

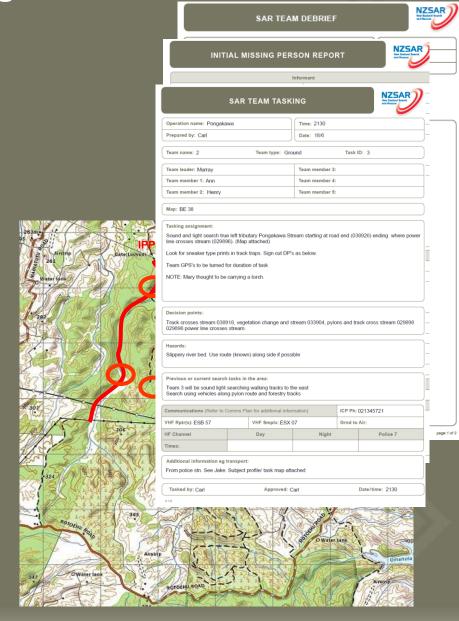
Approved: Jo Date/time: 2110



Remember - Responder safety is the highest priority

Briefing and Team Tasking

Other Considerations

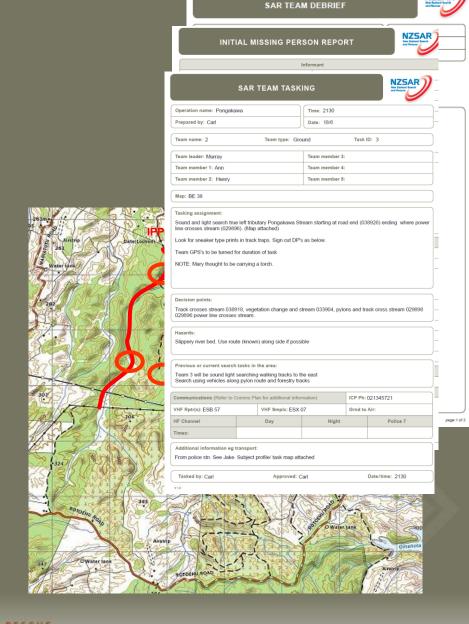




Planning Meeting

Debriefing

Demobilisation





Scenario Exercise



Scenario Exercise

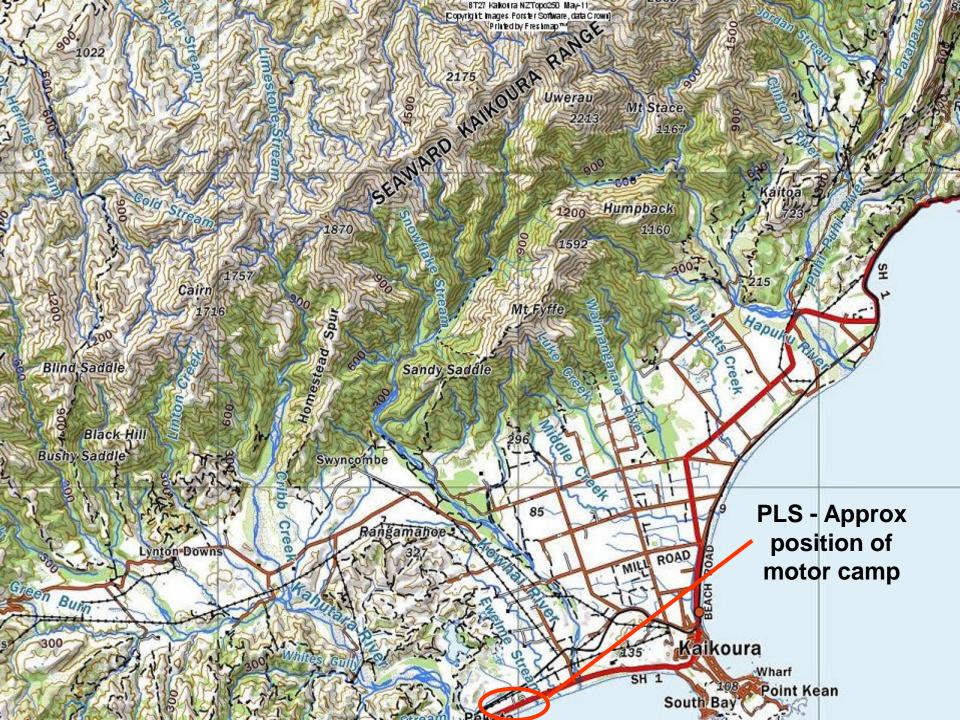
General

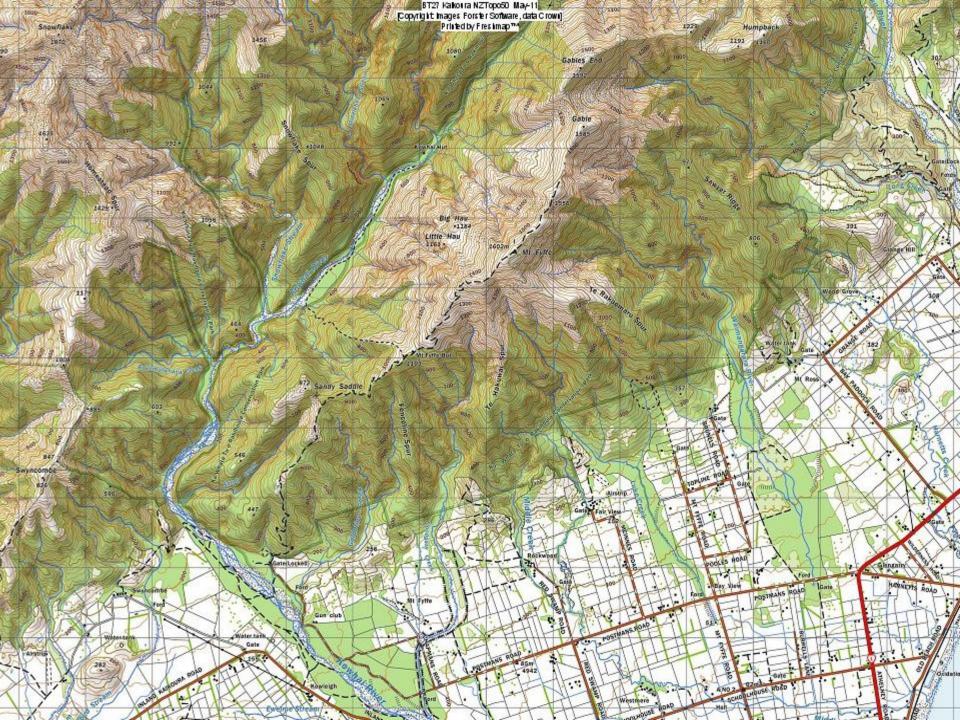
- •Form IMT's of 2-4
- Decide CIMS Roles within group
- •Each IMT to provide the normal management resources that would be used in the initial response. *May include pens, compass, acetates for overlays, white boards, computers.*

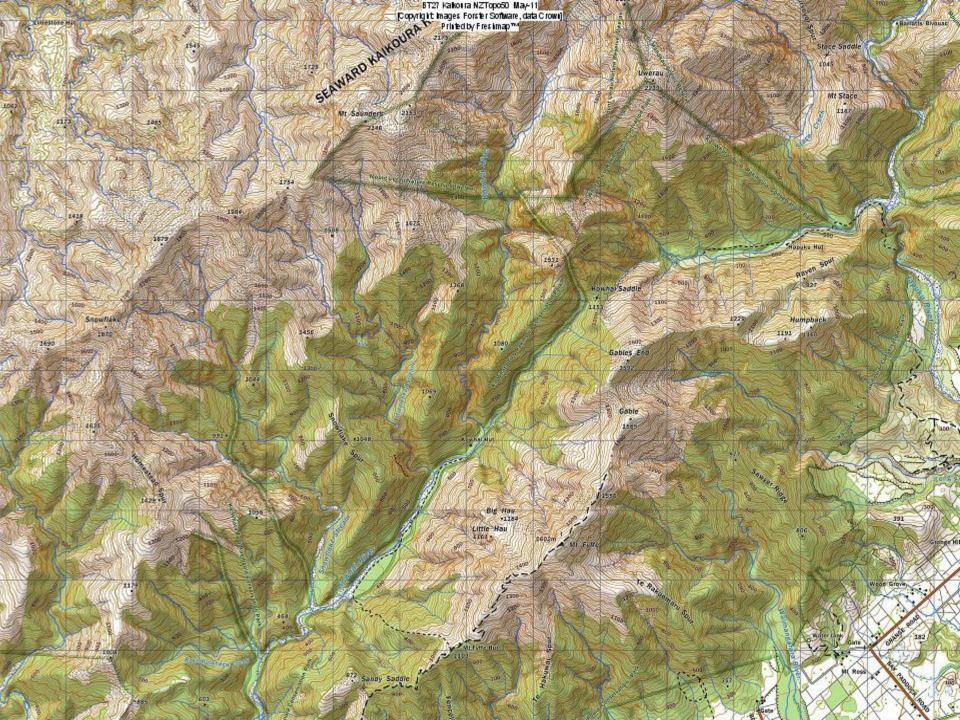
Resources supplied for scenario

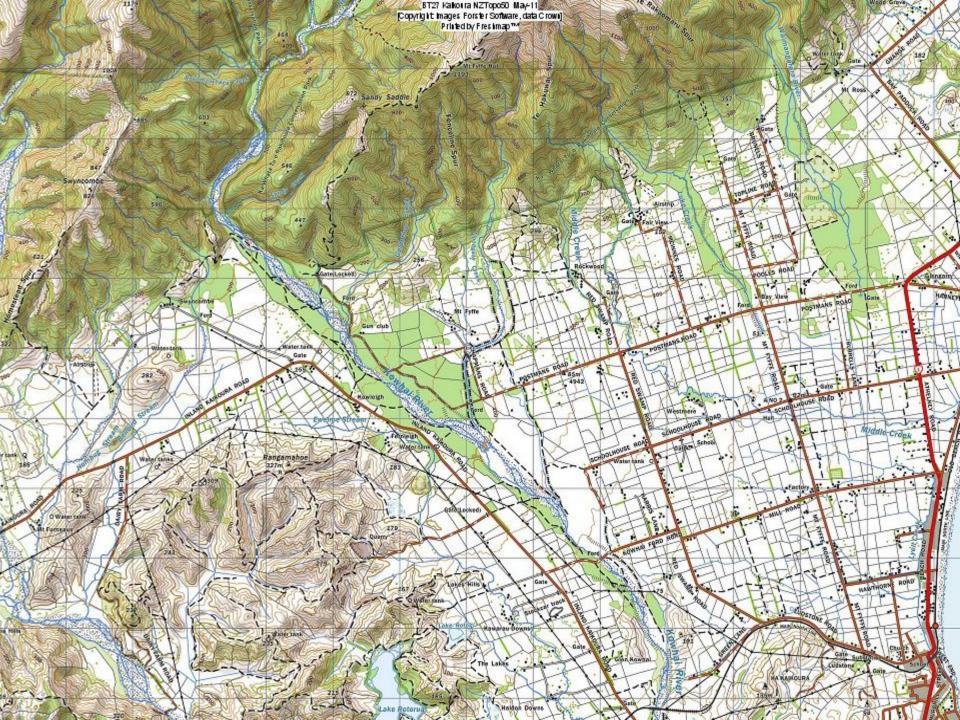
- •Initial Response Guidelines
- Forms Flow Diagram
- NZSAR suite of forms
- Koester's 'Lost Person Behaviour' book
- Scenario map
- Scenario 'Initial Notification' documents











Hapuku Fork Hapuku Hut (6 bunks) Hapuku Humpback Parsons Road Ka Whata Tū o Rakihouja Conservation Park Unsealed road Walking track Information Kowhai Saddle 1153 m Plenickina Gables End Tramping track Viewpoint kilometres This map is a guide only. For more information consult Topo50 map BT27 Kaikoura. Kowhai Hut 1602 m Big Hau 1184 m Little Hau Kaikoura 8 km Mt Fyffe Hut (8 bunks) Mt Fyffe car park Kowhai Rive

cenario Exercise



Mt Fyffe (1602 m), 8 h return

Superb views over the Kaikoura plains and peninsula reward those who climb on Mt Fyffe. On a clear day the view at higher levels includes Banks Peninsula and the North Island. From Mount Fyffe car park follow the 4WD road up the mountain's long south-west ridge.

The road goes right to the summit; a return journey of about 8 hours.

Those with less time or energy could go as far as Mt Fyffe Hut (8 bunks) (5 hours return) or the lookout point near a firepond, which is just an hour above the car park. The Spaniard Spur route offers a steeper alternative route to the upper mountain via the Kowhai River.



Hinau Track, 45 min loop

This track also starts at the Mount Fyffe car park. It is a 45-minute loop through an unusual forest with a number of large hīnau trees. There are also many māhoe, putaputawētā, broadleaf, tree fuchsia and pigeonwood. For a contrast in vegetation the track passes through a stand of kānuka. Classified 'walking track', the Hinau Track is well formed and suitable for families.



Hapuku Forks cenario Exercise Hapuku Hut (6 bunks) Hapuku Humpback Parsons Road Ka Whata Tū o Rakihouja Conservation Park Sealed road Standard hut Unsealed road Car park Walking track Information Kowhai Saddle 1153 m Plenickina Gables End Tramping track 1592 m Viewpoint Mountain kilometres This map is a guide only. For more information consult Topo50 map BT27 Kaikoura. Kowhai Hut 1602m (6 bunks) Big Hau 1184m Little Hau Kaikoura 8 km Mt Fyffe Hut (8 bunks) Mt Fyffe car park PIA Kowhai River



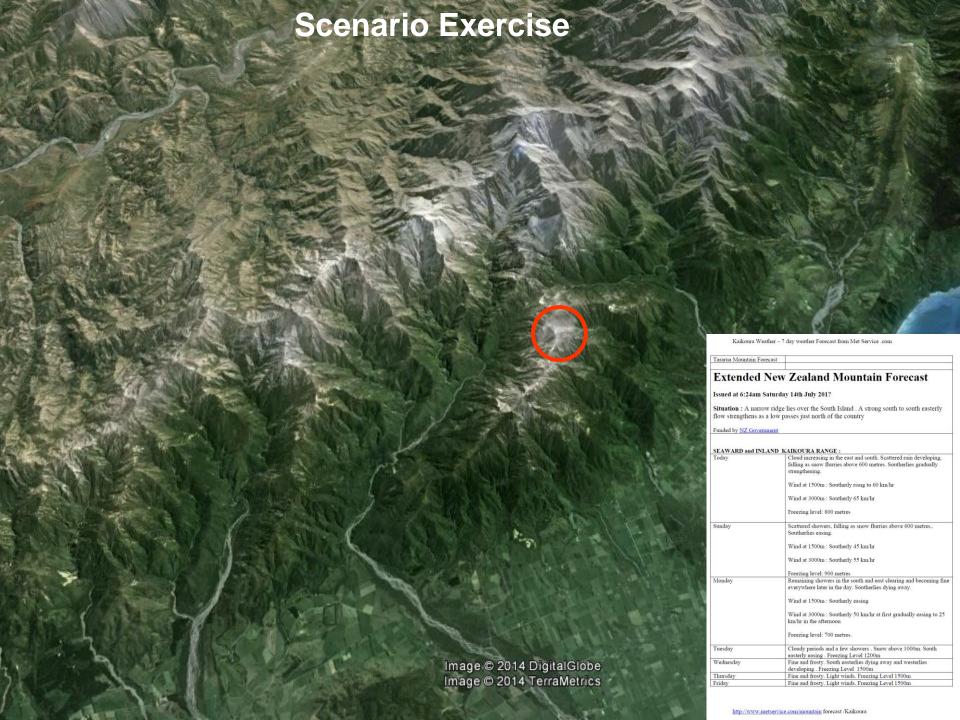
Kowhai-Hapuku circuit, 2-3 days

This rugged 2–3-day trip over Kowhai Saddle is typical Kaikoura country. It is classified as a route and in places is not marked at all; there are no bridges. Boots and experience at backcountry route-finding are recommended.

Mt Fyffe car park to Kowhai Hut (6 bunks) (4 hours). Most of the route is in the Kowhai riverbed; in places rock cairns mark short sections across the few riverflats.

Kowhai Hut to Hapuku Hut (6 bunks) (6 hours). Kowhai Saddle (1153m) is visible from Kowhai Hut, to the north-east. Just above the hut follow cairns beside a side stream leading directly to the saddle. On the Hapuku side the route descends to the riverbed. Follow the river to Hapuku Hut, mostly on the true left through scrub.

Hapuku Hut to Grange Road (4 hours). Follow the Hapuku valley bed and banks for about 30 minutes. Look out on the true right side for a track which skirts the deep Hapuku Gorge. The forest around the gorge is both beautiful and interesting: montane species like celery pine, hebe shrubs and Hall's tōtara occur among lowland species like tawa, hīnau, tītoki, pigeonwood and ngaio. New Zealand lilac and Marlborough rock daisy grow on the bluffs and riverflats near the gorge. Below the gorge a combination of route and track follows the riverbed down to Grange Road.



Scenario Exercise

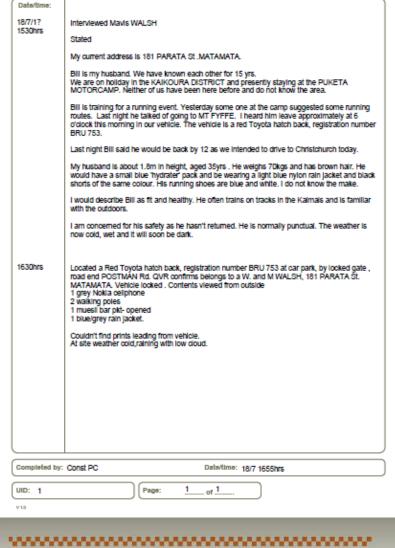
I/Net/Newer—Event Information Pg1 of 1

Event Information—P015203320

Normal View

	Location information		Calles Information
	Location Information		Caller Information
Number		Name	WALSH Mavis
Direction		Address	181 PARATA ST. MATAMATA
Street	MISSING	Phone	021 1741984
Street	MISSING	Phone	021 174 1964
Type		Terminal	D0710029
Suffix		Call taker ID	1039279853
Area		Source	PHONE
Municipality	MALBOROUGH DISTRICT	1 .	*LOI COMPLETED AT 14/7/17 14:30:59
			TD NIL HEADLINE: 1 MALE MISSING, RUNNER IN KAIKOURA AREA
		.	PERCENE I MALE MISSING, ROTHER IN NAROURA AREA
		Remarks	INFORMANT CALLING FROM PUKETA MOTORCAMP ON CELL
			PHONE, WX DETERIORATING- COLD, WINDY, LOW CLOUD. LAST SEEN 0600 THIS MORNING AT MOTORCAMP.
Apartment		1 '	MC UNKNOWN
			AGED 35 YRS BUILD MEDIUM
			HEIGHT 1.8
		.	HAIR COLOUR BROWN KAIKOURA WATCHHOUSE PAGING POLICE SAR
			**PLSE CLARIFY KAIKOURA AREA
			INFMT STATED INTENDED TO RUN UP TO MT. FYFFE HUT FROM ROAD END "PLSE CLARIFY WHO IS MISSING
			INFMT STATED BILL WALSH
X-Street 1			WHERE CAN POLICE CONTACT INFMT?
A-SERRE 1			INFMT AT MOTORCAMP, HAS NO TRANSPORT
X-Street 2		·	RQR
	444904		NNN
Date	14/7/17	Case Numbers	Disp Codes
Event type	MISSING PERSONS		
Agency P ESZ	Area DGroup Add	Dispatch Arrive	Close Cis Term Event Comment Prim situation unit
NZP 1 61011	TAS KAIKOURA 14:30:59	14:44:50	P015203320
Details	Chronology Add Comm	nents Unit	t Supplemental LOI MAP AII

http://evnetviewer.police.govt.nz/netviewer/inquiry/evtsrch1.asp?event=P015203320......14/7/1?



JOB SHEET

Operation name: KAIKOURA

Subject: WALSH, BIII



Scenario Objective

To use the Initial Response tools, concepts and methodology

Mission: Plan and document the Reflex Tasking Phase for this Search

From

Initial notification

Establishing an ICP

Establishing Comms

To

Planning the search

Documenting

Committing resources to the field – tasking sheets



Scenario Exercise

Scenario Resources

Field

- •4 personnel -trained Tracking and Search Techniques. Field ready
- •3 personnel trained Search Techniques only. Field ready
- •3 personnel experienced but not field capable

Logistical support

VHF communication equipment including repeater

2 x 4 wheel drive vehicles and drivers.



Scenario Exercise

Outputs

- Information Collection Plan
- Job sheets
- Search Urgency
- Initial Response Organiser
 (including Comms and Safety Plan)
- Planning maps

- Other Planning data
- Team Tasking forms
- Register of found items
- Register of sightings
- Other Logs



Scenario Debrief

I.C.'s to report to the wider group

What could be improved?

Where the team did well?

In Reference to

- Establishing a Management Structure
- Action Planning- Objectives, strategies and assignments (tasks)
- Using forms and following process
- •Search Planning- Applying the 'Bike Wheel Model' to this scenario.



THE INITIAL RESPONSE Initial Action

REFERENCES

- •NZ LandSAR Field Guide
- •NZ LandSAR Aid Memoir
- •NZ LandSAR Response Guidelines
- •'Lost Person Behaviour' by Robert Koester
- Notes from Formal Search Management Courses

ACKNOWLEDGEMENTS

- Subject Matter Expert: Nick Coyne
- •Material contribution and by way of review: Members of N.Z. Police and
- N.Z. LandSAR

Resource developed by Global SAR Services Ltd for N.Z. LandSAR

