

## Welcome Back – Day 2



# Quiz!!

# Lost Person Behaviour

How might you expect your subject to behave

# Lost - Missing - Overdue

Lost – Unable to establish a cognitive map.

Overdue – Circumstances have prevented the subject(s) from achieving a set rendezvous or destination.

Voluntarily missing – Intend to be missing and do not want to found.

# Lost Person Behaviour

Predicted behaviour based on statistical evidence from past events.

ISRID – data from 7 countries sorted by eco regions. More than 50,000 individual SAR operations.

Likely behaviour and travel distance (time independent), possible find locations, suggested search strategies and methods (refer Koester 2008)

# Profiling

Information specific to the subject.

# Group exercise on lost person behaviour

Use Koester 2008 Text and workbook.

For your selected category:

Distance travelled

Most likely find locations

Search strategies

- Child (1-3, 7-9)
- Youth - girl
- Despondent
- Gatherer
- Dementia
- Hunter
- Trumper/hiker

# Dementia

<p><b>Likely Behaviour</b>  <i>List at least 5 points</i></p>				
<p><b>Likely find locations</b></p>	1.	2.	3.	
<p><b>Distance travelled (km)</b></p>	25%	50%	75%	95%
<p><b>Search techniques and strategies</b>  <i>List at least 8 points</i></p>				



# Dementia

<p><b>Likely Behaviour</b>  <i>List at least 5 points</i></p>	<ul style="list-style-type: none"> <li>- Go until they get 'stuck'</li> <li>- Lack the ability to turn around {DOT is a good predictor}</li> <li>- Orientated to the past</li> <li>- May attempt to travel to former residence or workplace</li> </ul>			
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<p><b>Distance travelled (km)</b></p>	<p>25% 300m    50% 800m    75% 1900m    95% 8300m</p>
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<p><b>Search techniques and strategies</b> <i>List at least 8 points</i></p>	<ul style="list-style-type: none"> <li>- Investigation</li> <li>- Containment</li> </ul> <p>Systematic ground search &amp; structures</p> <ul style="list-style-type: none"> <li>- <b>Search High POD areas</b> - Corridors &amp; DP's (retirement village paths, gates, sign cut track traps, <i>social</i> media</li> </ul>

# Search Effort Evaluation

- A way of expressing or articulating search effort

# So what are the two essential elements of a successful search..?

- Look in the right place; and
- Be able to detect what it is you are looking for

## Probability of Detection

➤ POD – How likely were you to have detected the subject (or clue) if it had been present in the area you were searching?

➤ Factors that influence POD?

The Missing person – LPB & Profile

➤ Characteristics

Environment

Searchers

Type of resource

Searcher Technique

Search effectiveness Vs' speed

Technology & Information

# Search Effort Evaluation

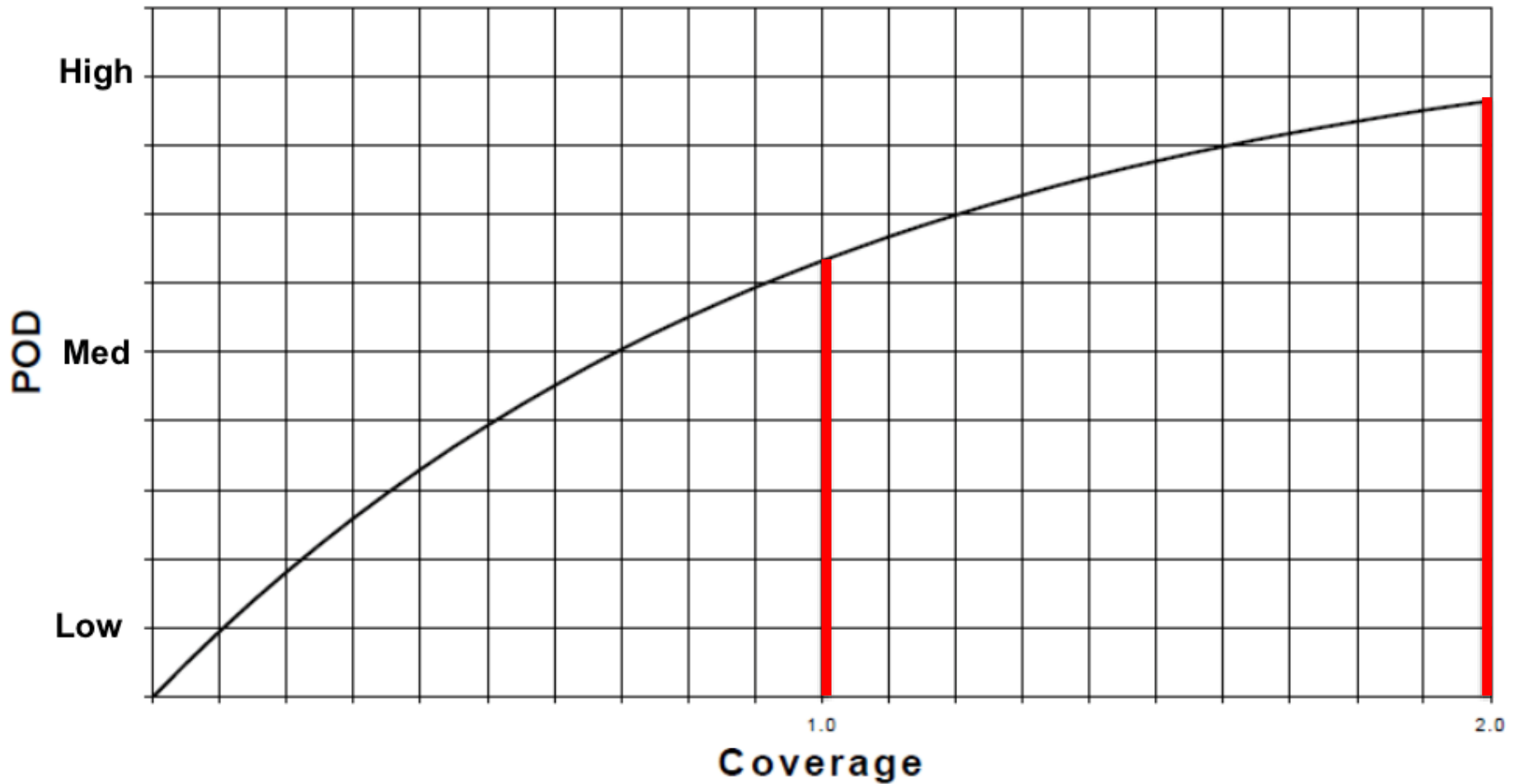
Coverage

Critical Separation



# Probability of Detection

## ➤ Coverage



# SAR Team Debrief

## SEARCH EFFORT EVALUATION (SEE)

Likelihood	Sub-Segment	Likelihood	Comments – rationale for assigning likelihood rating
<p><b>Scale</b> Express the likelihood of finding subject/clues in assigned search segment</p> <ul style="list-style-type: none"> <li>• High</li> <li>• Medium</li> <li>• Low</li> <li>• Not Searched</li> </ul> <p>Draw sub-segments and/or search area on attached maps.</p>			

Express the likelihood of finding subject/clues in assigned area

- High
- Medium
- Low
- Not searched

Divide assigned search area into sub segments for varying likelihood ratings

If number of sub-segments exceeds four then please utilise a job sheet.

## Scenario – Operation Roberts

Andrew set out on an ambitious 4-day tramp. He had been out of work for almost 4 months and his friends urged him to wait until Saturday so they could join him. He left Thursday morning and should arrive home sometime today. His friends fear for his safety due to his possible state of mind. No other information is available at this stage.

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*Where on the missing person matrix would you expect to find Andrew?*

## Scenario – Operation Roberts

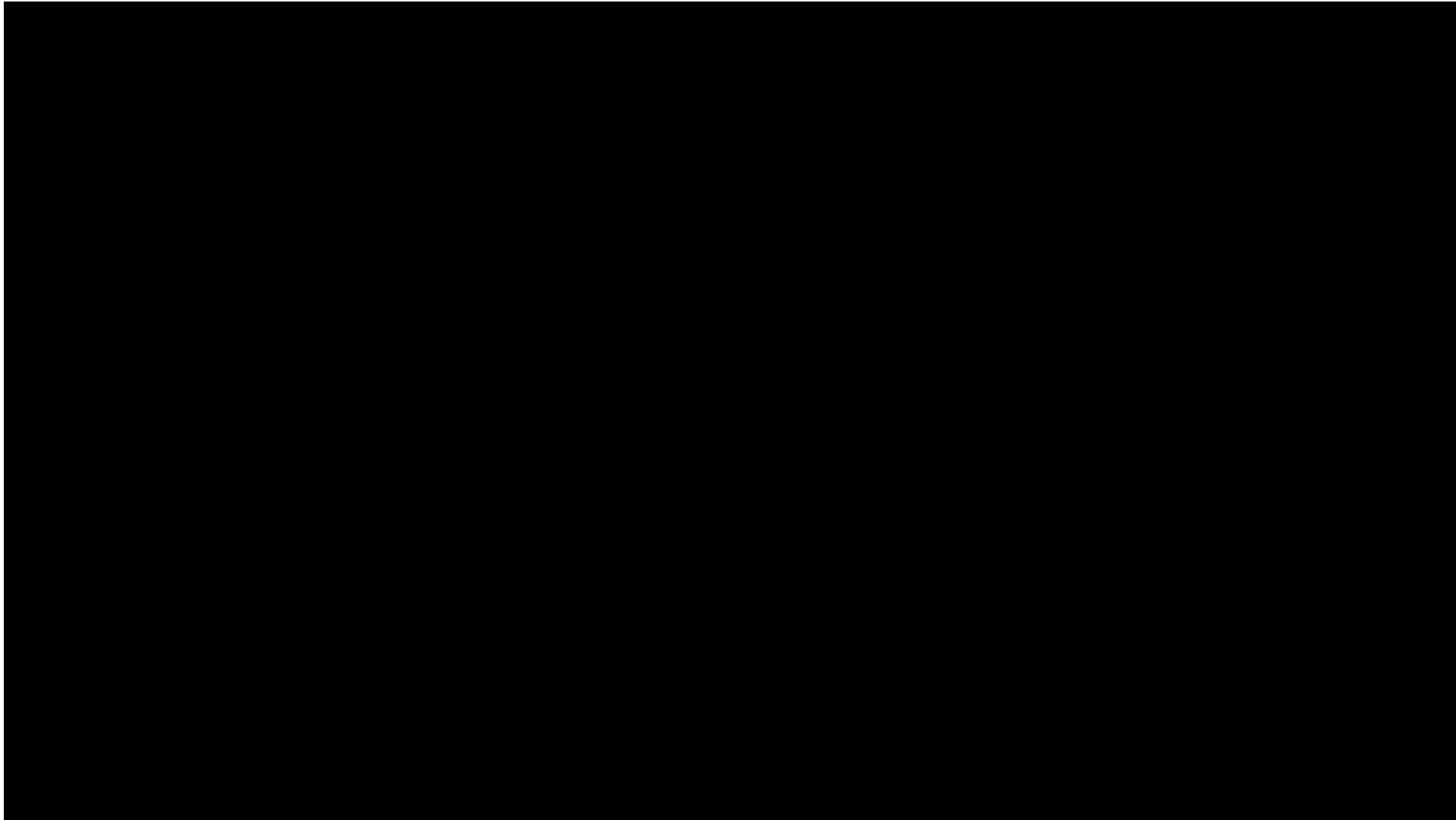
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***Immobile & unresponsive***

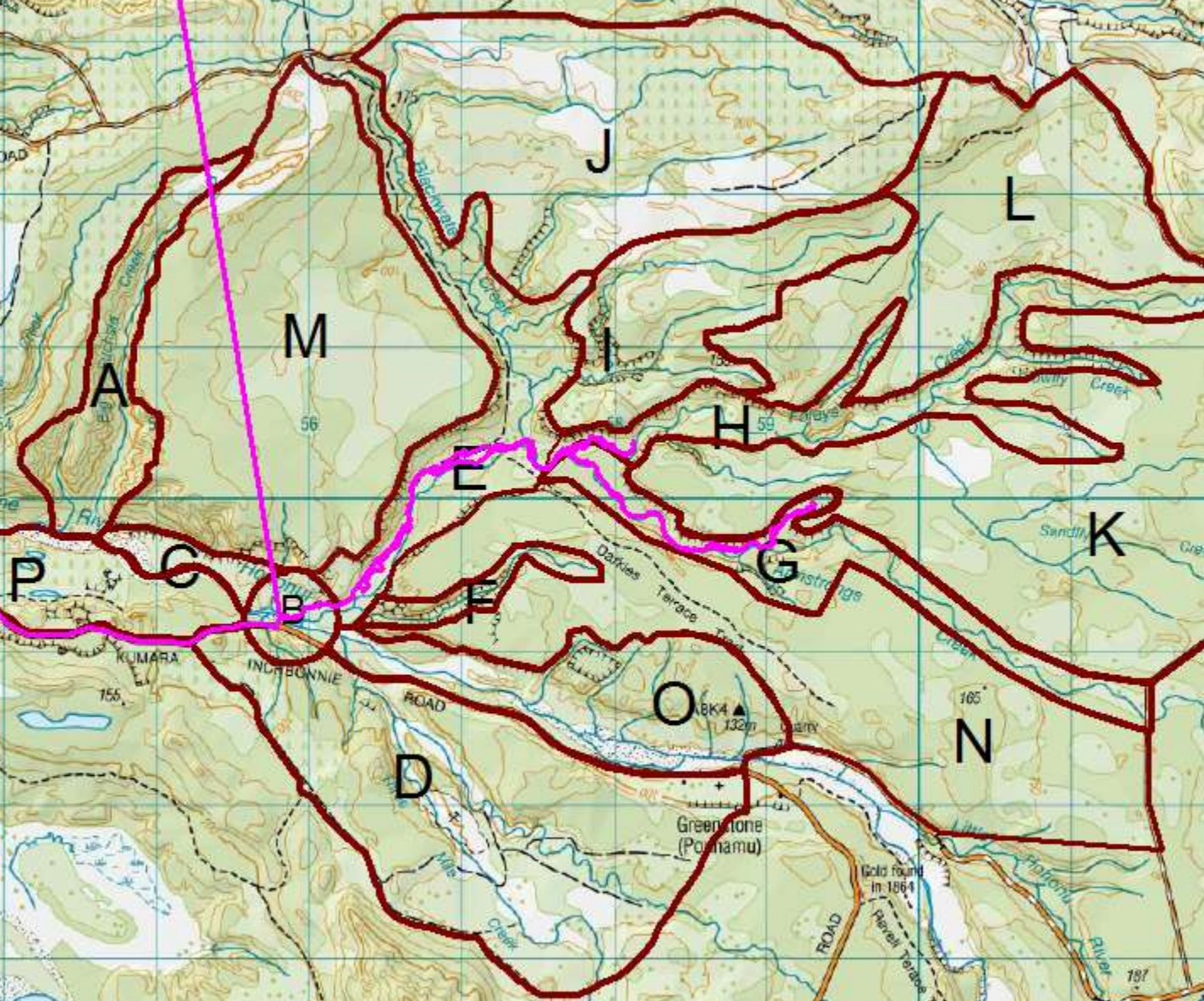
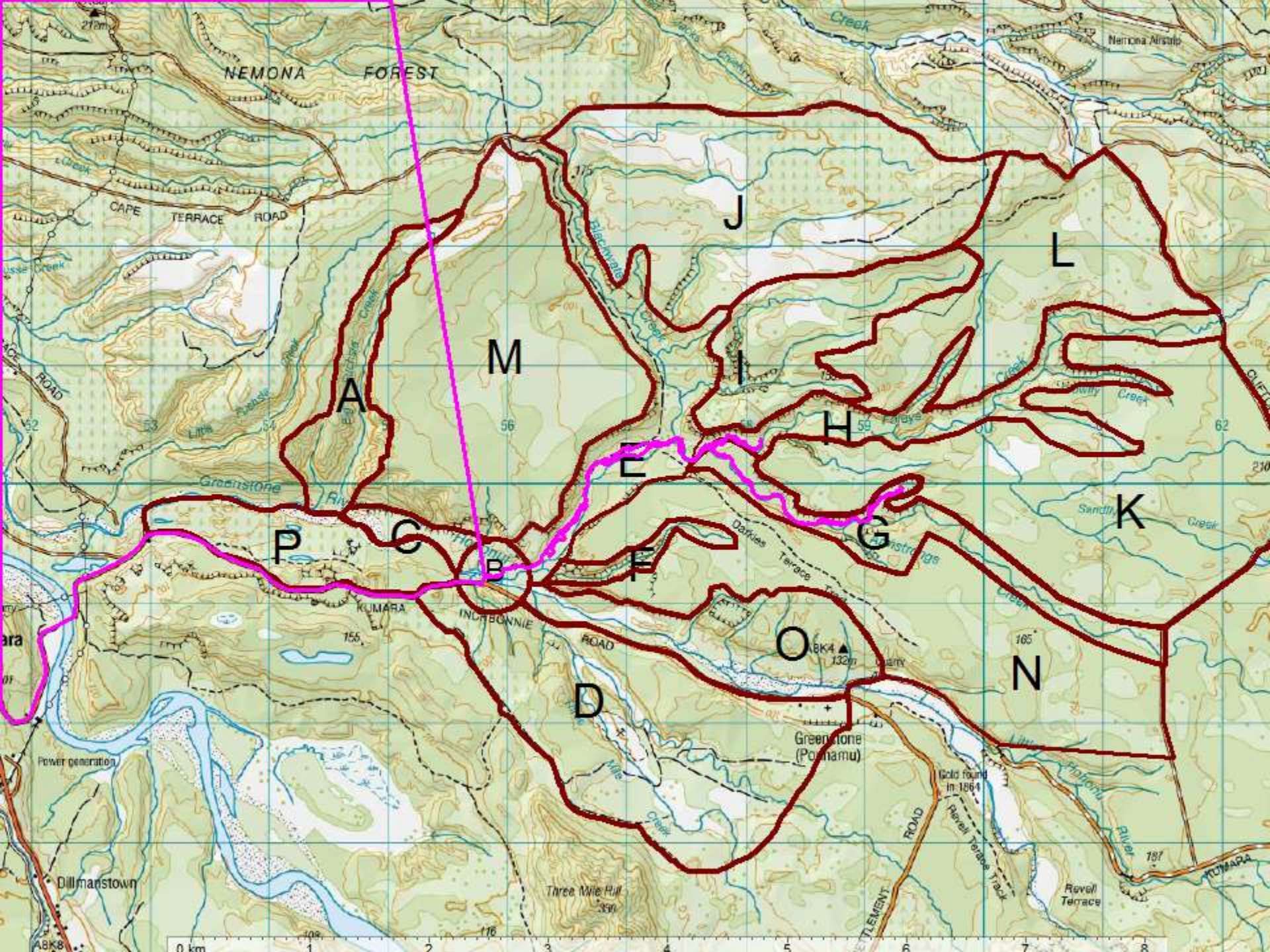
*What core technique could be most effective as a result?*

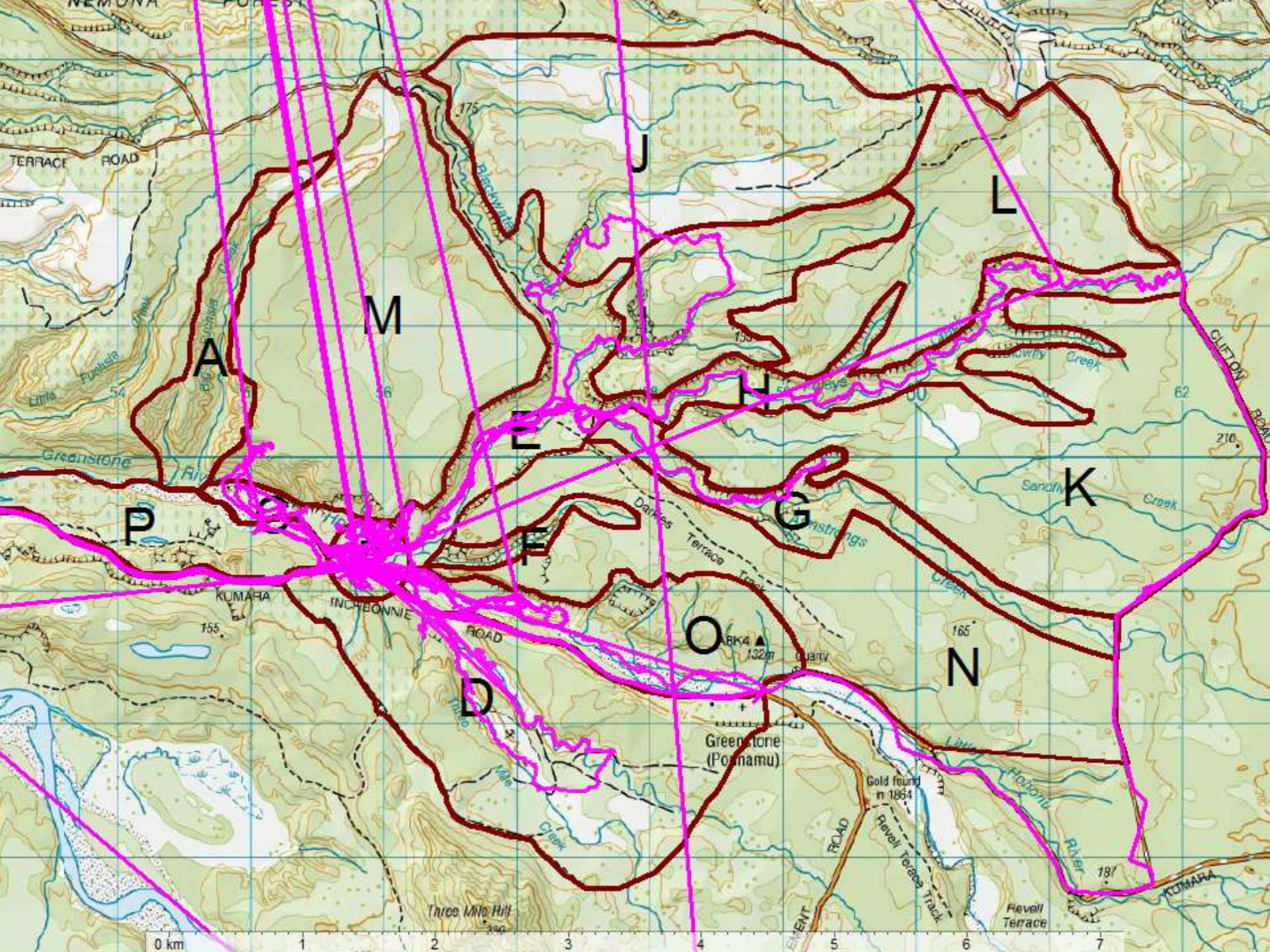
# Practical - Purposeful Wandering














# SAR Team Debrief

## Search Effort Evaluation

SAR TEAM DEBRIEF



Operation name:	Time:
Prepared by:	Date:
Team name:	Task number:

**BEFORE STARTING THIS DEBRIEF YOU WILL REQUIRE:**

- Google Earth (printout of search area (preferably with GPS tracks))
- Nasa Map (preferably with GPS tracks)
- Copies of team notebooks
- Photographs taken by Team Members

Complete using the column below as a guide. If more room is required continue on a job sheet. Use headings.

<p><b>Guidelines/prompts for debrief:</b></p> <p><b>Search Effort</b></p> <ul style="list-style-type: none"> <li>- Assigned segment searched</li> <li>- Completed</li> <li>- Did you deviate</li> <li>- Are there any areas needing follow up</li> <li>- Terrain</li> <li>- Vegetation</li> <li>- Documented non search people in search area</li> <li>- Did they see anything</li> <li>- Interviewed</li> <li>- Unseen Features identified but not shown on map</li> <li>- Decision Points</li> </ul> <p><b>Techniques</b></p> <ul style="list-style-type: none"> <li>- Direction of search</li> <li>- Techniques used</li> <li>- Search</li> <li>- Light</li> <li>- Purposeful thinking</li> <li>- Duration</li> <li>- Contact</li> </ul> <p><b>Detectability</b></p> <ul style="list-style-type: none"> <li>- Light</li> <li>- Time of day</li> <li>- Equipment used</li> <li>- Weather</li> </ul> <p><b>Clues</b></p> <ul style="list-style-type: none"> <li>- Found</li> <li>- Location</li> <li>- Reported</li> <li>- Absence of</li> </ul> <p><b>Personnel Factors</b> (Team effectiveness)</p> <ul style="list-style-type: none"> <li>- Fatigue</li> <li>- Time on the task</li> <li>- Training</li> <li>- Collective team skills, knowledge, experience</li> <li>- Teamwork</li> </ul> <p><b>Issues identified</b></p> <ul style="list-style-type: none"> <li>- Comms</li> <li>- Hazards to searchers</li> <li>- Hazards to subject</li> <li>- Equipment</li> <li>- Supplies</li> </ul>	
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**SEARCH EFFORT EVALUATION (SEE)**

Likelihood	Sub-Segment	Likelihood	Comments - rationale for assigning likelihood rating
Scale Express the likelihood of finding subject(s) in assigned search segment - High - Medium - Low - Not Searched Cross sub-segments and/or search area on attached maps.			

If number of sub-segments exceeds four then please attach a job sheet.

Debriefer comments:

Debrief form reviewed by: \_\_\_\_\_ Date/time: \_\_\_\_\_

Operator Manager

Debrief form reviewed by: \_\_\_\_\_ Date/time: \_\_\_\_\_

Management Manager

Attached to this form (update map identifying the sub-segments).

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# SAR Team Debrief

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# Search Effort Evaluation

## Group Exercise

Why would the Incident Management Team (IMT) want to evaluate your team's search effort..?

What decisions are the IMT likely to make as a result..?

# Search Effort Evaluation

- Search segment again – partial or complete
- Search segment again – different resource, technique or time of day
- Expand and or reduce search area
- Search somewhere else
- Ramp up or scale down
- Suspend search
- Identify, prove or disprove scenarios

# Recording Search Effort

**In your groups list advantages and disadvantages of the following methods of recording search effort.**

1. Not recording search effort
2. Written debriefs (example in workbook)
3. Acetate overlays
4. GPS download
5. Live tracking
6. Notes in note book



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# Summary