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NATIONAL PARK SERVICE

Jay Shields Chief Ranger Visitor & Resource Protection Olympic National Park National Park Service



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Coming to the Rescue! What Happens During an Emergency Response to a Serious Incident in a National Park?



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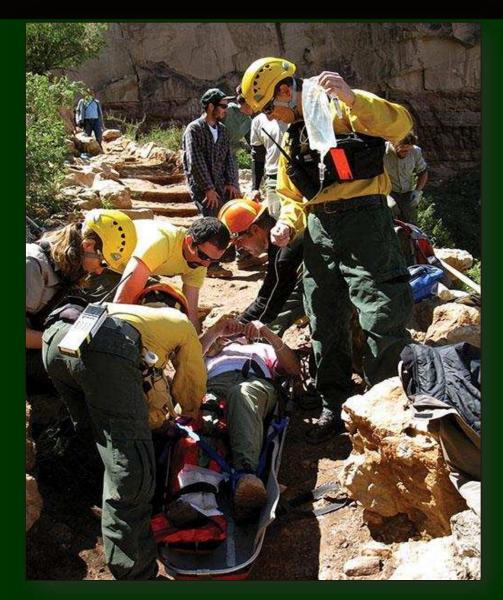
Objectives Upon completion participants will be able to: Understand the history and applicability of SAR in the NPS

- 2) What is ICS (incident command system) and how is it applied to a SAR incident.
- 3) Understand who will be responding when a response occurs for you or for someone in your group.
- 4) Plan ahead....but what does that really mean?

1)

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Incident Management Statistics

\$4 million spent annually on SAR Service-wide3,453 annual SAR incidents84,000-hours from park staff and volunteers

Incident Management Needs

Well Trained and Qualified Staff
✓ Operational Leadership
✓ Emergency Medicine
✓ Search & Rescue
✓ All-Hazards Incident Management

Supplies & Equipment

Reliable Communications & Notification Procedures Strong Leadership Infrastructure National Park Service ay not be reproduced without the consent of the author. WR 18 U.S. Department of the Interior

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So what are we actually talking about from a numbers standpoint?

National Park Units – 417

Reported SAR Incidents - 3,453

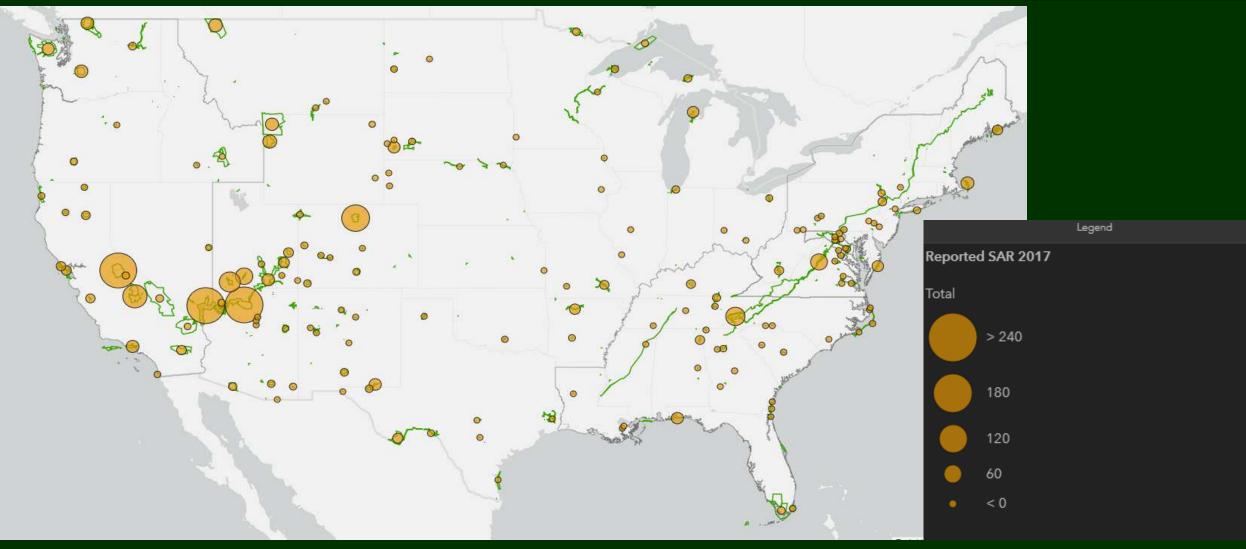
(all reportable incidents requiring a search or a rescue or both)

Fatalities – 182 (those that die during or after the incident, directly related to that incident)

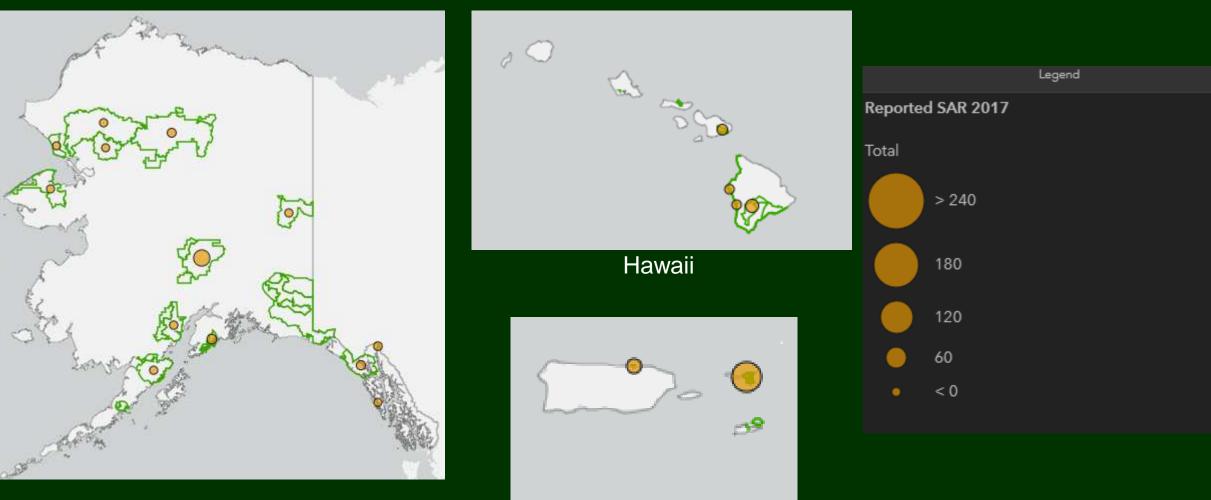
Saved – 1,000 (those that would have died without intervention)

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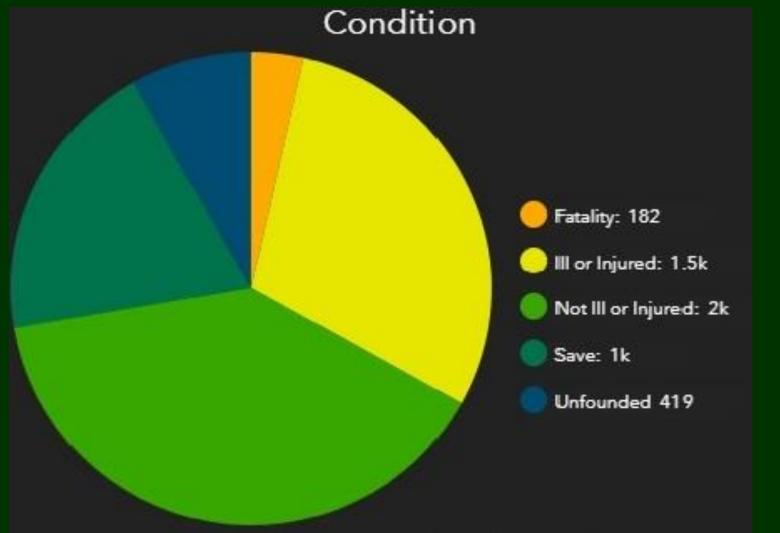


Alaska

US Virgin Islands

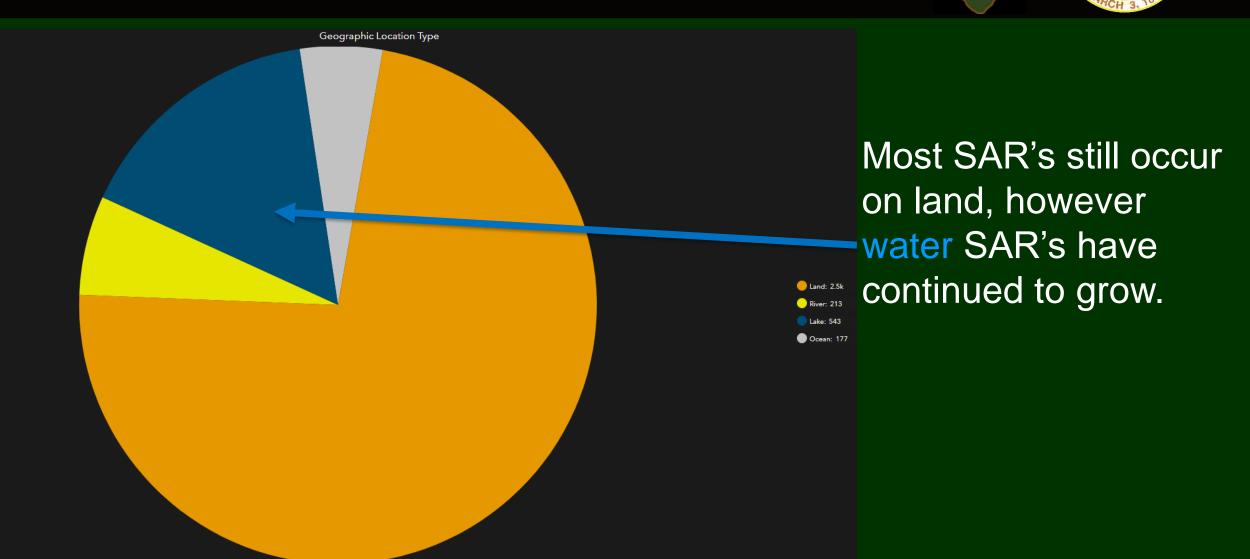
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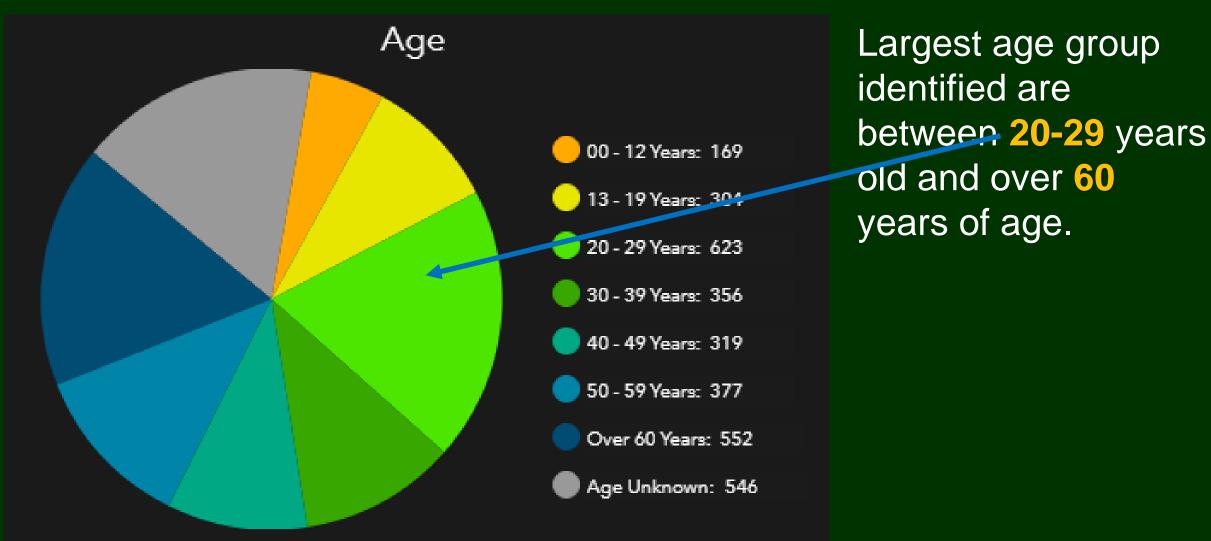


The largest use of SAR was for those not injured or ill, meaning they were either lost, or were overdue and resources were "launched".

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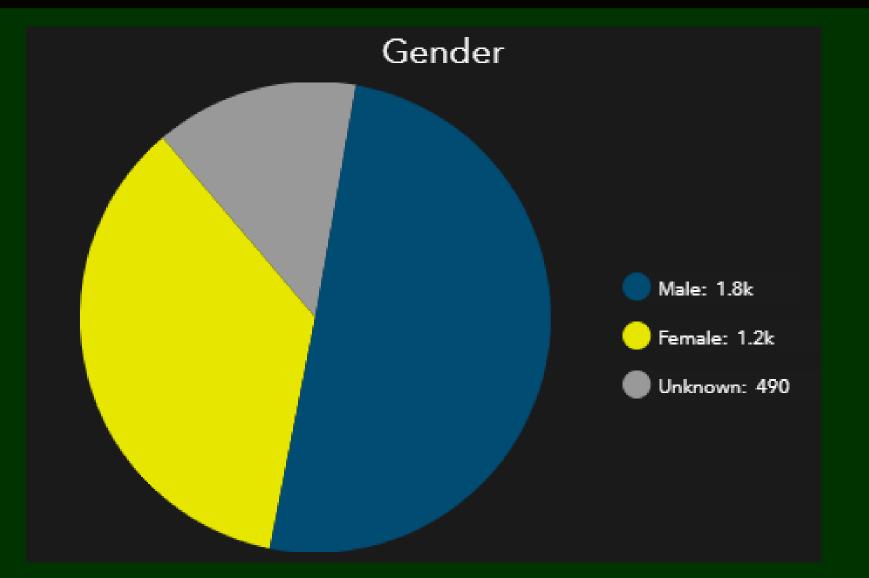


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Data shows males represent 49.7% and females 36.2% of SAR related incidents.

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Brief History





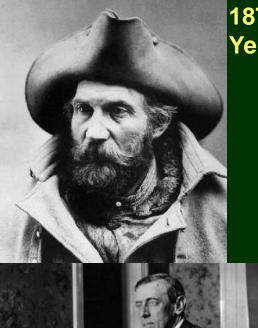
1849 DOI Establishment



1890 Yosemite



1906 Antiquities Act



1872 <u>Ye</u>llowstone



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With the establishment of a national park system, visitation grew slowly in the first 40 years but has grown exponentially to current numbers...which continues to trend upwards.

2017 numbers?



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As visitation increased so did the need for rescues.



The grand rescue 1967, Grand Tetons



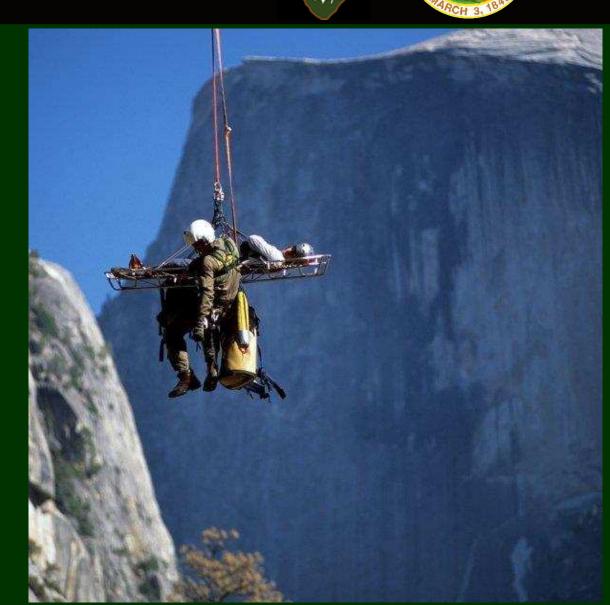
First Yosemite climbing fatality

Mt Rainier crevasse rescue



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"The saving of human life will take precedence over all other management actions as the Park Service strives to protect human life and provide injury free visits"



NPS Management Policies, 2006, Section 8.2.5.11 National Park Service ay not be reproduced without the consent of the author, WP 18 U.S. Department of the Interior

This doesn't mean we place others into peril...including rescuers

Rangers make individual search and rescue decisions based on the following considerations:

Safety Human resources Economic resources

U.S. Court of Appeals for the Tenth Circuit - 949 F.2d 332 (10th Cir. 1992) – Johnson vs US



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LE + EMS + SAR + Fire = Ranger



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Due to the needs of a varied mission with limited personnel, the majority of the NPS's SAR and EMS responders are Federal Law Enforcement Officers









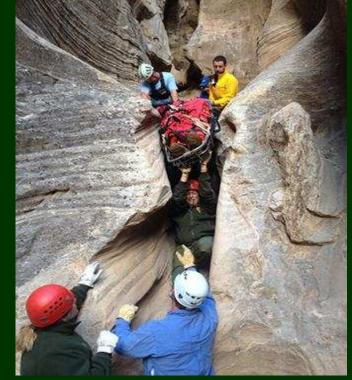


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Olympic





Zion

ACH 3, TRAC

Rocky Mountain



New River Gorge

Mount Rainier

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Combine our trained officers + partner agencies; we can insert resources just about anywhere....



Olympic

Yosemite







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From the highest peaks on the continent to the lowest and narrowest desert slots, the NPS is capable of extraordinary patient access.









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The NPS has a robust EMS response capability, to the extent that the NREMT recognizes the NPS as the "51st state" for certification purposes.













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The NPS is one of four primary agencies for SAR in the USA (DOD, USCG, FEMA, NPS). The NPS coordinates with other federal, state, tribal, and local governments to assist with immediate response nationwide under ESF (emergency support functions).











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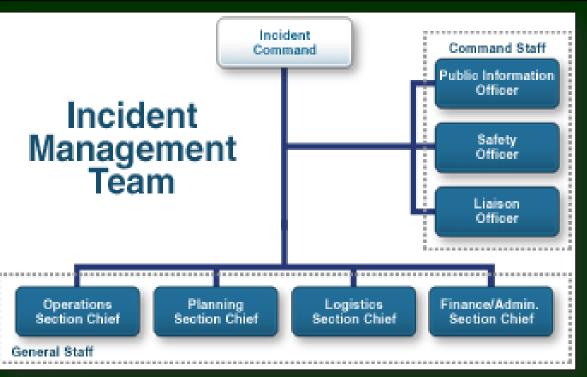


Incident Command System

ICS is a standardized way of control, coordination and command of emergency responders with a common terminology and hierarchy that all agencies prescribe to. National Park Service ay not be reproduced without the consent of the author. WP 18 U.S. Department of the Interior

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Incident Management Basics



ICS should be applied by all park programs for both small and large incidents, including special events! ICS is a standardized, incident management approach that:

- Allows for the integration of facilities, equipment, personnel, procedures, and communications operating within a common organizational structure.
- Enables a coordinated response among various partners, jurisdictions and functional agencies.
- Establishes a common process for planning and managing resources.

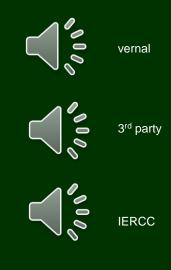
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The Call Comes to us in many ways....



.....in a variety of means and from a variety of reporting parties...

- cell as a 911
- inReach
- Spot
- 3rd Party and 4th party
- Parent
- Spouse
- Friend
- Work
- NPS initiated



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Personal Locator Beacons (PLB) Do you or any in your group have one? Is it registered? Do you know how to use it? National Park Service ay not be reproduced without the consent of the author, WP 18 U.S. Department of the Interior

"I can't go up and I can't go down on the trail. I have 4 dogs and the tide is coming in in 3 hours....I also need help setting up my campsite, please come help me"



"I don't like bats so I ran and now I am lost.....I crossed a bridge, can you come get me?" *"Jill's arm just fell off.....what do I do now!?"* "This device (spot) is great! Without this we never would have attempted this hike".

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9-1-1 47.8320° N, 123.5696° W

What Happens next?

Who is going to respond?

How Long will it take?

What Role Does your organization play in the response?

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What Happens next?	Info to IERCC, AFRCC, NPS Dispatch, etc.
Who is going to respond?	NPS, allied agencies, contract ships, volunteers
How Long will it take?	Hasty vs multi operational

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Search vs. Rescue: What's the difference?





SEARCH

- ✓ Unknown location of subject
- ✓ Requires lengthy investigation
- ✓ ICS can quickly become robust
- ✓ Significant personnel needs
- ✓ Often multiple operational periods
- ✓ GIS mapping very helpful
- ✓ Subjects often locate themselves,
- $\checkmark\,$ Are located deceased, or
- ✓ Tragically, sometimes never located



RESCUE

- ✓ Typically known location of subject
- ✓ Requires limited investigation
- ✓ ICS tends to be more simple
- ✓ Moderate personnel needs
- ✓ Often completed in one operational period
- ✓ GIS mapping not usually needed
- ✓ BLS vs. ALS patient care
- ✓ Slow vs. rapid evacuation
- ✓ Aviation resources often needed

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Determination of initial resources is made based upon reporting party (RP)

Resources are gathered and dispatched appropriately (*i.e. helicopters are not always dispatched*)



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Initial investigation

A process to initiate what and how resources will respond and what we are facing

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INFORMANT IDENTIFICATION

Name: Address:

Phone (home): Relationship to subject:

ADDITIONAL INFORMANTS

Name: Address:

Phone (home): Relationship to subject: Phone (work):

Phone (work):

GROUP IDENTIFICATION (make a separate subject profile for each person)

Number in group/type of group: Names of others in group:

TRIP PLANS

Trip starting point:	Time:
Trip ending point:	Time:
Intended destination:	Time:
Description of intended route:	

Age:

Weight:

Hair color:

Last seen by: Where last seen: Weather at time last seen: Time: Time:

SUBJECT IDENTIFICATION

Name: Answers to: Address:

Phone (home):

Vehicle make: Vehicle color: Vehicle location:

Date of birth: Height: Complexion: Mustache/beard: Code name (if child):

Phone (work):

Vehicle model: License plate (state):

Sex: Eyes: Hair style/length: Distinguishing marks:

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SEARCH URGENCY RATING	
FACTOR:	RATING:
1. AGE	
Very Young	1
Very Old	1
Other	2-3
2. MEDICAL CONDITION	
Known/suspected injured, ill or mental problem	1-2
Healthy	3
Known fatality	3
3. NUMBER OF SUBJECTS	
One alone	1
More than one (unless separated)	2-3
4. SUBJECT EXPERIENCE PROFILE	
Inexperienced, does not know area	1
Not experienced, knows area	1-2
Experienced, not familiar with area	2
Experienced, knows area	3
5. WEATHER PROFILE	
Past and/or existing hazardous weather	1
Predicted hazardous weather (less than 8 hours away)	1-2
Predicted hazardous weather (more than 8 hours away)	2
No Hazardous weather predicted	3
6. EQUIPMENT PROFILE	
Inadequate for environment & weather	1
Questionable for environment & weather	1-2
Adequate for environment & weather	3
7. TERRAIN/HAZARDS PROFILE	
Known terrain or other hazards	1
Few or no hazards	2-3
TOTAL	je = 7 to 21)

Note: All figures are relative and the total from the chart only indicates a possible relative urgency. Other factors bearing on the incident must also be evaluated by the Incident Commander to finally establish urgency. THE DECISION TO INITIATE AN EMERGENCY RESPONSE SHOULD BE BASED UPON THE TOTALITY OF THE CIRCUMSTANCES.

SEARCH RESPONSE GUIDELINES

	FACTOR SUM	RESPONSE
А	7 -10	Urgent Response
в	11-13	Measured Response
С	14-17	Evaluative Response, Should any action be taken?
D	18-21	Investigate further

OBJECTIVE DESCRIPTION OF RESPONSE GUIDELINES:

- A. Convinced that someone will die or be seriously injured if help does not arrive quickly
- B. Measured response differs from an urgent response in speed and number of resources
- C. The problem is unconfirmed or seems likely to resolve itself
- D. High objective possibility that subject is not in area or is not in a hazardous situation

TOTAL SEARCH URGENCY RATING:

Completed By:

Date & Time:

Places objective, numerical values on subjective factors.



This helps the "IC" determine the proper level of emergency response. National Park Service ay not be reproduced without the consent of the author. WP U.S. Department of the Interior

8/2.2

Initiation of Response

- Resources needed
- Command Structure
- PLS established
- Resupply of resources
- Longevity of operation
- Contingency plans for multiple Operational Periods

Page ____ of ____

Incident Communications Log

Time:	Calling:	Called.	Number: NF181422 895AR# 18-056 Zin
NETTER	I RP	1 Jugal	(p2) Inited industries w/RP - are subject
1501	Sublied		not be we you sorts in good healthite
	- and the second	1 1	ves but have taken many fails
	Keith		Nes, but have taken many fails -
	- BASELENA		location ?
	Subject		No it is steep around us, we may
			End something it we move I
	Keith		Star where you are for now we
	1		avellooking at ways to held you
C	Subject		Okan That word
	Kerth		Sandyou safely more a short distance
			to an area where you can sately
	1		spend the night?
	Subject		We don't know but we will look
	Reat	1	only more if you can do so safely
	Subject		Wed 1 9
	Warth		Can you repeat your message, it did
			not come transigh
	Subject		Find some what to camp
KE PTA	AR		update on plans to essigt doughter
			and when companion
MP118:57	SETA	Disontch	
1920	887A	Dispatch	88TA in air encote to Bailey's
2015	BACENS	Brothus	
0.200	Brack	Mark Migue	Internal of openies for taky
082.5	Baccus	Disposety	Holicopter spooling up, envoute to she location
0847	8374	Disposed	Reservers dropped SEE at alternative hetspot
			Yo mile 6 - original side.
2855	Subject		Subject made contact w/IC. Will remain
	EOC		Status check. Resource From hoy mode it to.

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SERVICE SERVIC

 Ground crew of initial hasty SAR staff ~2-4
 Launch of helicopter or contingent assets if applicable.
 As time increases so does the need for additional resources and "ramping up" of SAR personnel.





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"Hasty Team" Response

Typically the first tactic used in a SAR incident to quickly get a team to the subject's last known point.

- Small group often comprised of at least two persons, who travel fast, light, and are self sufficient for a 24-hour operational period.
- ✓ Report directly to the IC through the SAR Duty Officer (SDO) or Ops
- ✓ Basic medical gear, PPE, qualified as NPS SAR Technician Type 3 (SRT-3).

 \checkmark Once on scene, they "size up" the incident and radio the ICS to request appropriate resources.

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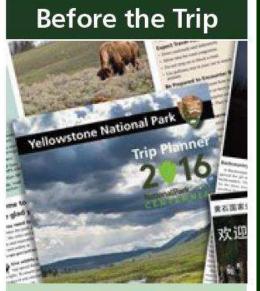
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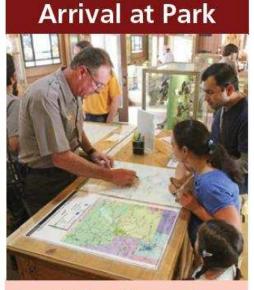
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PARK SERVICE

Planning Ahead



"<u>Know Before You Go</u>" What you need to know and consider before going out to a park



"<u>Ask a Ranger</u>" Get up-to-date information on park requirements and safety information

During the Trip

"<u>Assess and Adjust</u>" Actions to consider while you and your group are enjoying the activity

After the Trip



"<u>Share the Experience</u>" What you can do to be better prepared for your next park adventure

https://www.nps.gov/subjects/healthandsafety/trip-planning-guide.htm

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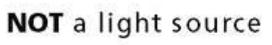
Know Before You Go



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Your Cell Phone is...







NOT a map



NOT a survival kit



NOT always going to have reception

Do Not rely on Your cellphone. It most likely will not work!

https://www.nps.gov/articles/gtgemergencyplan.htm

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What can I do to help?....

Can your organization provide trained, licensed and skilled emergency response providers (EMT, WFR, etc)? (understand your states Good Samaritan Laws)

Can your organization implement a local medical advisor to establish protocols and procedures for your staff? (ie – epi / Benadryl for anaphylaxis)

Can your organization provide life saving and inexpensive tools such as tourniquets?

Can you include in your trip planning medical Information such as triage tags for each client that includes allergies, medications, medical information, weight + gear weight for possible flights?

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After Action Review



What was planned?

✓ Objectives and expected outcomes.

What actually happened?

- ✓ Identify effective and non-effective performance.
- Review any non-SOP actions or safety concerns.

Why did it happen?

 Discuss reasons for any ineffective or unsafe performance and concentrate on WHAT happened, not WHO is responsible.

What can we do next time?

 Determine how to apply lessons-learned during the next incident. National Park Sentice ay not be reproduced without the consent of the author, WP 18. U.S. Department of the Interior

Questions?

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