Pennsylvania Search and Rescue Council
Field Team Member Certification Test
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Name (Print):_____

This is a closed-book exam. There is no time limit. Pick the **single** best answer for each question. For matching questions, use each possible answer once only or not at all, unless otherwise directed. Please sign the pledge at the end when you finish.

APPALACHIAN SEARCH & RESCUE CONFERENCE, INC. FIELD TEAM MEMBER WRITTEN TEST - BETA VERSION 1.2

SAR LEGAL ISSUES

	1 Jurisdiction for a search	3	The primary function of
	within a National Park boundary		the Air Force Rescue and
	is held by:		Recovery Center (AFRCC)
а	state police		is:
b	DES	а	coordinate all inland
С	National Park Service		SAR;
d	Sheriff	b	direct military SAR
е	all of the above		operations;
2	The authority for removal of	С	direct all inland
	bodies from a military aircraft		SAR; or
	crash rests with the:	d	coordinate military
а	State attorney general		SAR operations.
b	local coroner	4	A Responsible Agent is:
С	military police	а	the person by law
d	surgeon general		responsible for SAR
е	none of the above		in a jurisdiction;

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b	the person by custom		b.
	responsible for SAR in a		agrees
	jurisdiction;		proced
С	the person by default		the me
	responsible for SAR in a		make t
	jurisdiction; or		C.
d	the person by appointment		agrees
	responsible for SAR in a		diagno
	jurisdiction.		treatm
5	If an aircraft does not have a		d.
	flight plan, when will a search		unders
	start?		of the
а	estimated time of arrival		the me
	plus 1/2 hour;		make a
b	estimated time of fuel	1	TRUE C
	exhaustion plus 1 hour;	2	The Go
С	when reported missing; or		is a l
d	estimated time of fuel		cover
	exhaustion plus 1/2 hour.	3	The Go
6	Which one of the answers below		protec
	is NOT a condition required to		provid
	prove negligence?	а	neg
а	There was a duty to act;	b	cit
b	There was no breach of duty;	С	lia
С	The patients condition	d	tra
	worsened as a result of care		whi
	of lack of care, or		eme
d	Damage occurred.	4	The pa
7	Informed consent has two parts		that n
	and they are:		order
	a. the person understands		succes
	the nature of the procedure and		neglig

agrees to having it done;

the person s to having the dure doneand has ental capacity to that agreement; the person s with the osis and to the ment; or the person stands the nature e procedure and has ental capacity to a judgement. or FALSE ood Samaritan Law Federal law ing all states. ood Samaritan law cts emergency care ders from: gligence vil suits ability affic violations ile driving ergency vehicles arts of negligence must be proven in for a plaintiff to ssfully sue for gence include:

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а	defendant had a duty to act	b	the prope
b	defendant failed to provide		have mark
	the standard of care		as privat
С	actual harm occurred to the	С	the local
	plaintiff		have indi
d	the plaintiff's damages or		area need
	injuries were caused by the		searched
	defendant	d	the searc
е	all of the above.		life or p
5	If an EMS provider on a field		be at sta
	team begins treatment of a	8	Who has the
	patient in the field, and later		declare an i
	turns the patient over to		dead in VA,
	another medic of lesser	а	a police
	training, the initial medic may		
	be guilty of:	b	a physici
а	malpractice	С	may depen
b	libel		of damage
С	abandonment	d	a and b
d	slander	е	b and c
6	Implied consent:	9	TRUE or FALS
а	allows treatment of an	10	The good sam
	unconscious subject		protects eme
b	is necessary to treat minors		providers fr
С	may contribute to negligence		negligence.
d	is the same as informed	11	During a sea
	consent		across a sub
е	a and d		unconscious.
7	Entry upon private property may		the followin
	be justified when:		consent can
а	SAR teams have reason to		assume in or
	believe the subject may have		the subject?
	crossed the area	а	expressed

he properties owner ave marked the area s private he local authorities ave indicated the rea needs to be earched *he searchers believe* ife or property may e at stake has the right to are an individual in VA, MD, or PA? police officer physician ay depend on extent

f damage and b and c or FALSE good samaritan law ects emergency care iders from

igence. ng a search you come ss a subject who is nscious. Which of following types of ent can you legally me in order to treat

xpressed consent

b	implied consent	2	At what air
С	informed consent		could hypot
d	parental consent		occur?
е	two consenting adults	а	20 degre
12	When a SAR person encounters a	b	40 degre
	crime scene they must:	С	60 degre
а	keep all others away from it,	d	80 degre
	using force if necessary.	е	none of
b	leave it undisturbed if at	3	Signs of hy
	all possible.		include:
С	determine the status of any	а	shiverin
	victims only after law		urine, r
	enforcement personnel have	b	blurred
	checked for clues.		stumblin
d	all of the above		sensory
13	The is	С	frozen e
	responsible at the national		reduced
	level for land-SAR.		ofconsci
14	The is		slurred
	responsible in the United States	d	shiverin
	for maritime-SAR.		speech,
MEDIC	AL-TRAVEL-SURVIVAL	Match	the best al
1	When you sleep on a cold		to the f
	surface, without adequate		items
	insulation between yourself and	А	profuse swe
	the surface, a primary method of	В	low body te
	heat loss will be:	С	high blood
a	radiation	D	loss of abi
b	conduction	E	frozen tiss
С	convection	23	Fr
d	respiration	24	Ну
е	all of the above	25	Не
		26	Не

r temperature thermia <u>not</u> ees Fahrenheit ees Fahrenheit ees Fahrenheit ees Fahrenheit the above ypothermia ng, dark rash vision, ng, reduced perception extremities, level iousness, speech ng, slurred stumbling lpha response following 4 eating emp pressure ility to sweat sue rostbite ypothermia eat Stroke

27	TRUE or FALSE	b	You will dehydrate if
1	Severely hypothermic patients		you don't eat.
	should be moved very gently.	С	You need constant
28	TRUE or FALSE		energy and eating
1	Assume you find a person who is		small amounts of food
	injured and, then after		constantly assures a
	initiating treatment, can you		steady energy supply.
	leave the person alone because	d	You do not have to
	you have been ordered to return		eat constantly. This
	to base?		is an old wives tale.
29	TRUE or FALSE	e.	There won't be any food
1	If a person is obviously in need		left at base, base
	of medical care (say the person		twinkees eat
	is bleeding profusely), yet the		everything in sight.
	person refuses to be treated,	1	TRUE or FALSE
	can you force the individual to		During a field task
	accept medical care?		I should drink water
30	TRUE or FALSE		even when I'm not
	To keep your body from		thirsty.
	cooling you need to keep your	1	I feel a hot spot on my
	energy level up, eat high		left foot. I should:
	calorie foods, and expend lots	а	stop and put moleskin
	of energy through hard work.		on it.
31	TRUE or FALSE	b	stop and change
1	It is advisable to thaw a frost		socks.
	bitten foot before attempting to	С	press on, this is not
	walk out of the wilderness.		a problem
2	Why is it important for you to	d	none of the above
	eat constantly while performing		
	a search task?	CLOTH	IING AND EQUIPMENT
a	You won't get food ate any	1	ASRC minimum personal
	other time.		equipment includes:

а	48 hours food, trash bags,		
	VHF radio		
b	2 light sources, whistle,		
	compass	d	
С	20' of 1" webbing, fire	40	Whe
	source, day pack		
d	knife, tent, appropriate		
	clothing	а	
е	b and d	b	
2	TRUE or FALSE	С	
3	Carabiners should be kept	d	
	lightly oiled so that they will	е	
	work well.	2	Dow
4	TRUE or FALSE		sle
5	Synthetic fibers commonly used		the
	in outdoor clothing tend to wick		whe
	water rather than absorb water.		wet
38	TRUE or FALSE		cor
1	Waterproof garments that prevent	а	
	rain from reaching the wearer		
	will keep the wearer dry.		
39	"Dressing Cold" means:		
а	wearing enough layers of	b	
	clothing to keep you from		
	getting cold when not		
	exercising	С	
b	wearing minimal amounts of		
	clothing during training	d.	non
	missions to build up the	1	Woo
	bodies tolerance to cold		ver
С	wearing layers of clothing of		con
	sufficient warmth to make the		wil
			ho ~

wearer comfortable, yet not sweating, during exercise none of the above en exposed to cold conditions, it is important to: dress in layers avoid sweating avoid drinking water maintain homeostasis all except c wn filled clothing or eeping bags loose eir insulating value en the down becomes t, this can be rrected by: using a polypropelene liner next to your skin to wick moisture away treating the down with silicone to prevent "wetting" covering the bag with a waterproof tarp ne of the above ol is considered a ry qood fiber for nstruction of lderness clothing because it:

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а	wicks moisture well		
b	is naturally homeostatic		
С	can absorb considerable water		
	and maintain insulating value	а	
d	its natural oils keep the		
	wearer's skin from drying out		
е	none of the above	b	
2	TRUE or FALSE		
	Cloth with a good tight		
	weave will provide greater	С	
	insulating value than loose		
	woven cloth of the same weave,	d	
	especially when covered with a	е	
	waterproof/windproof shell.	5	
1	TRUE or FALSE	а	
2	Covering the head is rarely a	b	
	good idea in cold weather, as	С	
	the body may "overheat" the head	d	
	in its attempt to keep the rest	6	
	of the body warm, thus leading		
	to elevated temperature in the		
	cerebrum and eventual loss of	а	
	consciousness.		
3	Of the following types of	b	
	fabrics, which should not be	С	
	worn next to the skin?	d	
a	capilene	е	
b	cotton	7	
С	polypropelene		
d	thermax		
4	It is 35 degrees Fahrenheit and		
	you are given a field task. You		-
	put on your down parka over the		

uniform shirt you have been wearing at base. You are now: properly equipped for the task providing it doesn't rain at risk of becoming hypothermic during the task going to get yelled at by Peter McCabe all of the above b and c only What does WWW stand for? wear warm wool wool wears warmer warm wearing wool warm when wet Sleeping bags should incorporate materials that: retain insulating value when wet repel moisture "breath" all of the above none of the above List 2 warm-when-wet materials

	b	side
Why is layering better then one	С	front
heavy jacket?	d	uphill
	2	When approaching a
		downed aircraft to check
		for survivors, you
List 5 essential items that		should approach from:
could always be in your 24-hour	а	uphill, upwind
search pack.	b	downhill, upwind
	C.	uphill, downwind
	d.	downhill, downwind
	1	What should be taken
		into account when
		setting up an LZ?
	а	size of the
		helicopter
In selecting personal equipment,	b	wind strength and
what are useful selection		direction
principles?	С	terrain conditions
a. quality, price,	d	all of the above
versatility;	е	none of the above
b. price, function,	2	You arrive on the scene
versatility;		of an aircraft search
c. function, quality,		and find the pilot
price, versatility; or		decapitated. After
d. versatility, price,		you've regained your
function, weight		composure, you radio
PERATIONS		base, secure the net,
After a helicopter pilot has		and report a find of
made eye contact and given the		what type?
OK to approach, you should	а	status 1
approach the helicopter from:	b	status 2
behind	С	status 3
0		

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d	gross and dead	
3	What electronic device may be	b.
	used by searchers on an aircraft	
	search?	
а	flagging tape	
b	ELT	C.
С	DF	
d	none of the above	
4	When approaching a helicopter	d.
	one should:	1
а	approach from the rear	
b	wear a baseball cap to	
	protect the head	а
С	establish eye contact with	b
	the pilot	С
d	jump and touch the rotor disk	d
5	In a downed aircraft search, who	2
	should approach the scene?	
а	IC and Ops officer	а
b	FTL and radio operator	b
С	FTL and medic	С
d	Medic and CAP officer	d
е	Surgeon general	е
6	What is the standard size of an	3
	LZ?	

COMMUNICATIONS

1	What should be the first message	
	to radio in to base when a	а
	search team finds a subject?	b
a	"Base this is We	С
	have located the subject."	d

- "Base this is _____. We have a status _____ find."
- "Base this is _____. Clear the net."

"We found him!"
When answering yes over
the radio, the correct
term is:
yes
affirmative
correct
uh-huh
What is the ASRC radio
identifier?
AK81924
KA91842
KA81942
AK18924
none of the above
Which term indicates you
have completed your
radio conversation but
will continue to monitor
your radio?
out
over
clear
10-4

- 4 Spell out the following letters d using the phonetic alphabet 3 (i.e., Y = YANKEE)
 - Χ Η а R Ι b Α Κ Y ECd Μ R TW 4 0 SU а
- 1 You are out in the field on a search task and can not receive b or transmit. What can you do to improve communications?

OPERATIONS

1	Which three positions should be	
	filled on every team?	
а	FTL, medic, FTM	d
b	FTM, medic, radio operator	5
С	Ops, plans, IC	
d	FTL, medic, radio operator	
2	The title of the person in	
	charge of managing an ASRC	
	search is:	
a	Ops officer	
b	Responsible Agent	

C ICS

IC

The ASRC is a recognized SAR resource of which agency? VaDES County Sheriffs association BOD RACES What is an interview task? interrogating an individual so as to get the information you want from him describing the subject and asking if they've seen him/her asking persons within the search area if they've noticed anything out of the ordinary all of the above List the 4 key staff positions in the Incident Command System (ICS).

C

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- 1 List 4 human resources available for search and rescue operations. 1 _______ a ______ b 2 1 As a Field Team Member, your job when interacting with the family 1 is as a/an: a listener
- b informant
- c interrogator
- 1 In 25 words or less, describe the ASRC call-out mechanism.
- 1 Define an ASRC Field Team
- 1 Define Status 1, 2, and 3.

What resource typically has a higher POD?

Helicopter Grid Searcher Define the Mattson Consensus Method

As an FTM, if you notice that the FTL is doing a rotten job, compromising the safety of the field team; you should: in front of everyone, demand the FTL step down. make suggestions as to how the job might be done. completely ignore the problem. demand the radio, and then call base to explain your concerns.

а

b

C

d

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е	wait until you return to base	2	The incident command
	and then to the FTL's boss.		system designates five
2	If the Press were to approach		positions from which all
	you asking questions about the		incident functions are
	search's progress, how would you		conducted.
	respond?	3	TRUE or FALSE
		4	ICS is composed of
			functions, rather than
1	How do trailing/tracking dogs		people.
	differ from air- scenting dogs?	5	What is the function of
			the
		а	Field Team Leader
1	When working with an air-		
	scenting dog, who is usually in	а	Communications
	charge of the team?		Officer
		а	Rescue Specialist
MANA	GEMENT	а	Evac Team
1	The incident command system is		
	not designed to:	а	Personnel Officer
	a. facilitate a manageable		
	span of control		
	b. allow SAR groups to	1	When you report to an
	keep track of resources in the		incident base, you sign
	field		in at:
	c. be easily expanded		a. Plans;
	using modular organization	а	Operations;
	d. include a search	b	Logistics; or
	operation plan	С	Finance.
	e. support integrated	2	When your team is ready
	communications.		to go into the field,
1	TRUE or FALSE		

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	who will give your team its task		the followin
	assignment?		of them.
	a. Plans;		a. Com
а	Operations;		terminology;
b	Logistics; or	а	single co
С	Finance.		source;
2	You've gotten your TAF and need	b	common st
	a radio, where do you go?	С	common us
	a. Plans;		signals
а	Operations;	ROPE	AND RESCUE
b	Logistics; or	1	Who is respo
С	Finance.		supervising
2	You return from your task.		travel?
	Someone from	а	Field Tea
	will debrief your team leader.	b	Medic;
	a. Plans;	С	Radio Ope
а	Operations;	d	Rescue Sp
b	Logistics; or	2	As a field t
С	Finance.		would you no
			part of a te
1	Which incident command section		rescue team?
	determines what strategies and	а	Yes
	tactics will be used in a	b	No
	search?	3	When prepari
	a. Plans;		rappell, you
а	Operations;		what to the
b	Logistics; or		before touch
С	Finance.		rope?
2	There are 5 principle reasons	а	on belay
	that the Incident Command system	b	rappellin
	works as a management system in	С	on rope
	emergency operations. Which of	d	belay on

ollowing is NOT one em. Common . nology; ngle command urce; mmon structure; or mmon use of ten gnals SCUE s responsible for vising roped 1? eld Team Leader; dic; dio Operator; or scue Specialist field team member you normally be a of a technical e team? s preparing to ell, you should call to the belayer e touching the belay ppelling rope

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4	Which of the following is not		Static:
	generally used for rappelling?		
а	Gibbs		Dynamic:
b	Figure 8		
С	Carabiner	1	TRUE or FALSE
d	harness	2	"Kernmantle" is a name
е	leather gloves		given to the type of
5	When using semi-tech to ascend a		rope that is made with a
	hill, the uphill rope handler		woven outer core and
	becomes:		continuous inner fibers.
а	litter captain	3	Knots in a rope reduce
b	downhill rope handler		the strength of the rope
С	belayer		by:
d.	not necessary		a. 25%
1	What type of rope is preferred	а	50%
	by most rescue groups for rescue	b	75%
	work?	С	100%
а	dynamic kernmantle	е.	can not be answered the way
b	laid hemp		question is asked
С	kevlar braided	1	The square knot is used
d	static kernmantle		to:
			a. join two ropes
			of the same size;
1	List 3 types of RESCUE teams and	а	join two ropes of
	how they are used		different sizes;
		b	make a stopper knot
			at the end of a rope;
			or
		С	climb up a rope.
1	Distinguish between Static and	2	The Figure-Eight knot is
	Dynamic Rope and a typical		used to:
	situation when each type is used.	а	climb up a rope;

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b	join two ropes of the same	d	ask the helicopter to
	size;		land to discharge the
С	join two ropes of different		static electricity.
	sizes; or	SEARC	СН
d	make a stopper knot at the	1	When should attraction
	end of a rope.		searching not be used?
3	The fisherman's knot is:	а	when attraction is
	a. a permanent knot;		likely to lead the
а	used just for webbing;		subject to a hazard.
b	used for climbing a rope; or	b	when subject is
С	an easy knot to remove.		evasive
2	When climbing rock or ice, you	С	in severely cold
	should use a:		weather
а	dynamic rope;	d	in mountainous areas
b	static rope;	e.	both a & b
С	both dynamic and static; or	112	A clue is flagged with:
d	neither type of rope.	а	1 flag
3	TRUE or FALSE	b	2 flags
4	"Stacking" is a term used for	С	3 flags
	piling rope in a random fashion	d	4 flags
	so that it plays out easily.	2	Interior boundaries (ie.
			temporary) are flagged
			with:
1	A hoist wire from a helicopter	а	1 flag
	can become highly charged with	b	2 flags
	static electricity. Therefore:	С	3 flags
а	make sure you ground the wire	d	toilet paper
	with a grounding wire.	3	Attraction is a search
b	allow the wire to touch the		technique that may
	ground before you handle it.		employ:
С	grab the wire and hold it	а	whistling
	firmly.	b	fires
		С	pheromone

d	yelling	С	
е	all except c		
115	In SAR, containment may include:	d	
а	patrolling roads and trails		
	to keep subject from leaving		
	search area	119	Wl
b	using your skills to keep		
	dangerous substances from	а	
	leaking from downed aircraft	b	
С	using string or flagging tape		
	to physically blockade the	С	
	area		
d	all of the above	d	
е	a and c only		
116	A sweep search is:	2	Wl
а	another name for grid search		re
b	a type of hasty search		iı
С	a loose line search	а	
d	used to clean up base after a	b	
	search	С	
117	Cutting for sign is:		
а	a quick search, generally	d	
	across the subject's	е	
	suspected line of travel,	121	Wl
	looking for signs of passage	а	
b	synonymous with tracking		
С	done only by dog teams	b	
d	not used is SAR		
118	A hasty search is:	С	
а	a fast search done only by		
	the police	d	
b	a form of sweep search	2	Wl
	employing containment		mı

done only on linear
features
a quick search for a
responsive subject or
obvious clues
When lost in the woods,
it is best to:
remain where you are
move quickly before
night fall
keep moving until you
find a landmark
quickly begin a
search for food
Which of the following
resources might be used
in a search?
Pizza Hut
Fire Dept. Volunteers
Rescue Squad
Volunteers
Dogs East
all of the above
What is P.O.D.
Probable Order of
Detection
Personal Odor
Detection
Probability of
Detection
Poor, Old, and Dead
What does the "STOP"
mnemonic stand for?

S	5	List 3 examples of
T	-	containment.
0		a.
P		<u>.</u>
- Define POA and what it means		
		 b.
Define POD and what it means		
		 C.
On any SAR incident, every one		
should always be concerned about	1	Which search task
, both for		generates a higher POD?
themselves and for the other	а	SweepLine
emergency providers.	2	All things being equal,
Search is a classic		which task takes longer
, where we search		to perform?
for, not the	а	SweepLine
	3	A scratch search task
When you first find a clue		contains about to
indicating the missing person		field team
was truly once at your present		members, and is usually
location, list at least 4		assigned to search a
concerns you should have:		feature
	4	Mantrackers can do which
		of the following most
		efficiently:
	а	gross clue detection
Give 2 examples of attraction	b	string line
you could use while on a field		placement;
team.	С	attraction; or
	d	aging sign

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2

- 5 In the first phase of a missing person search, which is the primary tactic? a containment and attraction, b line search and containment; c hasty search and containment; or
- d locale search and hasty search.
- 6 TRUE FALSE 1 Successful missions are suspended, unsuccessful missions are closed.
- MAP/COMPASS & LAND NAVIGATION
- 1 One of the many techniques of orienteering is to "Aim Off." 1 Which of the following definitions best fits? AIMING OFF is the process of:
- a accounting for the difference between true and magnetic north.
- b setting your compass dial to aim off your present location 1 when determining the direct path to the next point. c using the local terrain features to help guide you as
- you follow your compass bearing.
- d purposely introducing an 2 error in your direction of travel in order to minimize

your uncertainty when you intersect a catching feature. TRUE or FALSE An orienteering path is best planned forwards, going from the starting point to the ending point. A circle contains degrees. 1 degree = _____ minutes of arc. 1 minute of arc = seconds of arc. Write a single sentence definition for: Latitude

Longitude

Declination

Given you are on a mountain and you sight a downed aircraft with a bearing of 168 degrees magnetic, what is the reciprocal magnetic bearing? Given that you are in Maine with a declination of 22 degrees west, what

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is the reciprocal true bearing?		You are on a fire
What was the original		road.
true bearing?		You see Greenwood
Using map Bravo, write down the		Hollow to the south.
proper ASRC grid coordinates for		You determine you
the following points:		are at the following
		ASRCcoordinate:
	146I	Define collecting feature.
For the standard topo map (7.5 x	1	On a 1:12000 scale map,
7.5 minute quadrangle, what is		1 inch = feet,
the distance between the ASRC		and 1 cm =
coordinates A1523 and A1533?		meters.
	2	You are on a compass
Using map Alpha, identify the		course and come up to a
objects depicted by the map		lake. In the space
symbols at locations:		below, show how you
		might move around a lake
		that is between you and
		the next orienteering
		point (indicate where
		you would have to pace
		off your route):
	1	What is the latitude of
You are on map Alpha in the		the North Pole?
following assigned area:	а	90 degrees North
Your Altimeter reads 2200	b	180 degrees North
feet.	С	0 degrees North

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- d 90 degrees South
- 2 What is the longitude of the Greenwich Observatory in England?
- a 90 degrees West
- b 0 degrees East
- c 0 degrees South
- d 90 degrees East
- 3 What is the phonetic code name for the Greenwich Observatory in England?
- 1 What time is it in ASRC-land, when someone says it's 0500 hours (Greenwich) time.
- 1 What is the latitude of the equator at the prime meridian?
- a 90 degrees North
- b 180 degrees North
- c 0 degrees North
- d 90 degrees South