

RTCM Differential GPS

With a partner you will use one of the Backpack Differential GPS units along with a Garmin unit.

Turn on the ALTO GPS unit then plug in the differential beacon. Check to see if you have differential lock. Stay on the Main Menu screen until the upper right hand corner says N3C-. Press the on button to go to the status screen.

Turn on your Garmin unit. Make sure it is in the same coordinate system as the Alto unit. Record positions from both units for the next 10 minutes at 2 minute intervals.

<u>ALTO</u>		<u>GARMIN</u>	
LAT	LONG	LAT	LONG
1) _____	_____	1) _____	_____
2) _____	_____	2) _____	_____
3) _____	_____	3) _____	_____
4) _____	_____	4) _____	_____
5) _____	_____	5) _____	_____

Assuming one second of Latitude is equal to 100 feet and one second of Longitude is equal to 75 feet, what is the maximum error in the ALTO and the Garmin?

	LAT	LONG
ALTO	_____	_____
Garmin	_____	_____