	O&M		MSC		
Point	LAT	LON	LAT	LON	DIST
0					
5					
10					
15					
20					
25					
30					
				AVG	

Measurement	O&M Lat.	0	&M Long.
o MIN	0.5343828	315980521	-1.6813952234999
5 MIN	0.5343829	90513447	-1.6813952234999
10 MIN	0.5343835	514112222	-1.68139539803282
15 MIN	0.5343847	35842699	-1.68139469990112
20 MIN	0.5343826	641447596	-1.68139487443405
25 MIN	0.5343850	84908549	-1.6813952234999
30 MIN	0.5343824	66914671	-1.68139504896697

Coordinates in degrees	Transcribed from collected		
O&M Lat.	O&M Long.		
30.6178	8 -96.33685		
30.6178	9 -96.33685		
30.6179	2 -96.33686		
30.6179	9 -96.33682		
30.6178	7 -96.33683		
30.6180	1 -96.33685		
30.6178	6 -96.33684		

Questions:

- a) RMS refers to the distance that each point falls from where it was predicted. STD DEV refers to the range around the mean where it is most likely for any given poir
- b) Degrees of Freedom is basically the amount of available points in your data that an Usually corresponds to the amount of points in a sample 1, but can be brought lowe

12 th Man Lat.	12 th Man Long.	DIST (km)	AVG	= V
0.534280016087579	-1.68145316843107	0.7279304551	0.7328902551	-0.005
0.534280016087579	-1.68145316843107	0.7289310601	0.7328902551	-0.004
0.534279841554654	-1.68145351749692	0.7333520237	0.7328902551	0.0005
0.534279667021729	-1.68145351749692	0.7430272775	0.7328902551	0.0101
0.534280190620504	-1.68145334296399	0.727191233	0.7328902551	-0.0057
0.534280190620504	-1.68145386656277	0.7416102427	0.7328902551	0.0087
0.534279841554654	-1.68145351749692	0.7281894935	0.7328902551	-0.0047
				$=\Sigma V^2$

data

data		
12 th Man Lat.	12 ^t	th Man Long.
30.611	199	-96.34017
30.611	199	-96.34017
30.611	L98	-96.34019
30.611	L97	-96.34019
30.6	512	-96.34018
30.6	512	-96.34021
30.611	L98	-96.34019

nt to fall in.

e *free* to not be a set value. er conditionally.



=V ²
2.46E-05
1.5675E-05
2.1323E-07
0.00010276
3.2479E-05
7.6038E-05
2.2097E-05
0.000274

StDev:

0.00675600341

$$TD DEV = +/-$$

TD DEV = +/-
$$\sigma \pm = \sqrt{\frac{\sum V2}{n-1}}$$

Questions:

a. (5 pts) What is the difference between RMS and STD DEV?
b. (5pts) What is Degree of Freedom and how does it make a difference?