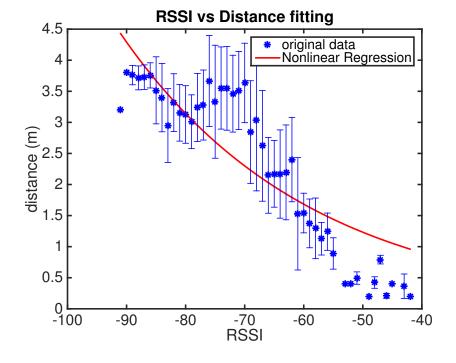
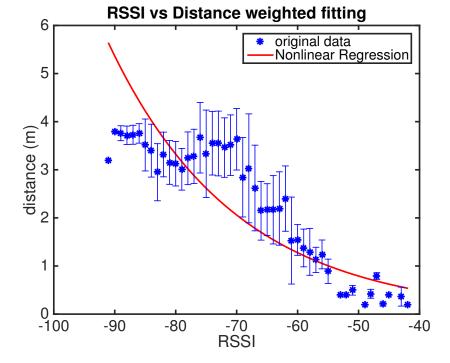
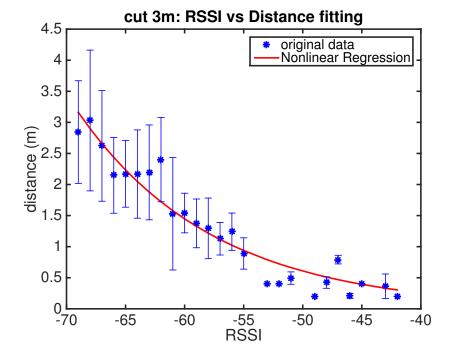


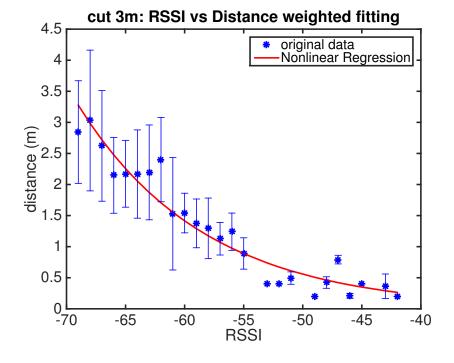
After extend the distance to 4.4m



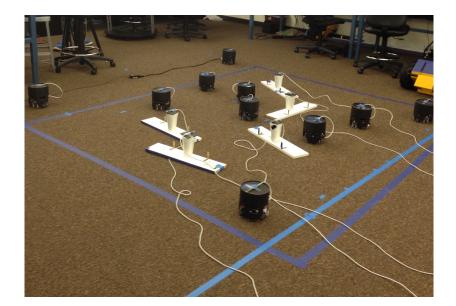


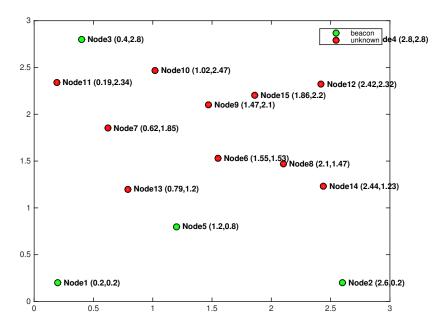
After cutting the mean distance larger than 3m





- rssi distance direct mapping
- rssi distance fitting
- ▶ rssi distance weighted fitting
- ▶ cut 3m direct mapping
- ► cut 3m fitting
- ► cut 3m weighted fitting





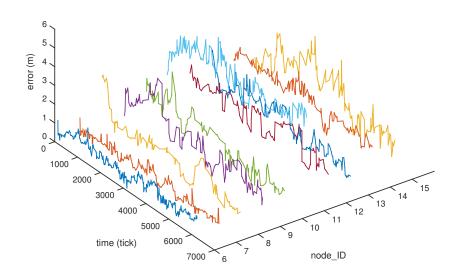
# localization errors for kickloc (cut 3m treat outlier as boundary value)

	RSSI to Distance mapping model							
Topology	direct	fitting	weighted fitting	cut 3m direct	cut 3m fitting	cut 3m weighted fitting		
1	1.2288	0.5622	0.4823	1.1478	1.1623	1.2600		
2	1.2942	1.4003	1.1707	1.3678	1.3309	1.2785		
3	1.4390	1.1357	0.9791	1.2043	1.2858	1.3329		
4	1.6591	1.3580	1.0879	1.5041	1.4235	1.5219		
5	1.4182	1.1367	1.1893	1.2198	1.5674	1.9128		
average	1.4079	1.1186	0.9819	1.2887	1.3540	1.4612		

## localization errors for kickloc (cut 3m treat discard outlier)

	RSSI to Distance mapping model							
Topology	direct	fitting	weighted fitting	cut 3m direct	cut 3m fitting	cut 3m weighted fitting		
1	1.2288	0.5622	0.4823	1.1113	1.0564	1.0894		
2	1.2942	1.4003	1.1707	0.9697	0.9849	1.0186		
3	1.4390	1.1357	0.9791	1.1492	0.9733	1.1656		
4	1.6591	1.3580	1.0879	1.4220	1.9286	1.4352		
5	1.4182	1.1367	1.1893	1.2885	1.1299	1.6771		
average	1.4079	1.1186	0.9819	1.1881	1.2146	1.2772		

## time evolving result for topo1 method1



## localization errors for kickloc when only leveraging beacon information

	RSSI to Distance mapping model							
Topology	direct	fitting	weighted fitting	cut 3m direct	cut 3m fitting	cut 3m weighted fitting		
1	1.5973	0.7827	0.7846	1.3661	1.4071	1.4873		
2	1.1622	0.7455	0.8318	1.0589	1.2185	1.2768		
3	1.3424	0.8064	0.8584	0.9084	1.2069	1.2656		
4	1.7863	1.2275	1.0972	1.4245	1.6041	1.6898		
5	1.6743	0.8378	0.8051	1.2402	1.4551	1.6199		
average	1.2190	0.8800	0.8754	1.1996	1.3783	1.4679		

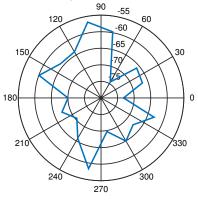
## average localization errors for different algorithms

	RSSI to Distance mapping model						
Algorithm	direct	fitting	weighted fitting	cut 3m direct	cut 3m fitting	cut 3m weighted fitting	
KickLoc	1.4079	1.1186	0.9819	1.2887	1.3540	1.4612	
DV-distance	1.1383	0.7624	0.8661	0.8438	1.0111	1.0975	
Min-Max	0.6720	0.6679	0.6615	0.6543	0.6817	0.6975	
N-hop Lateration	1.2285	0.9009	1.2003	1.0120	1.1691	1.2712	

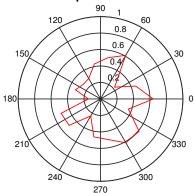
mean



#### Polar plot of mean rssi



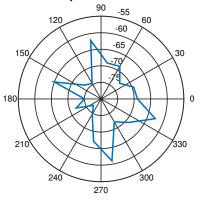
### Polar plot of rssi std







#### Polar plot of mean rssi



#### Polar plot of rssi std

