



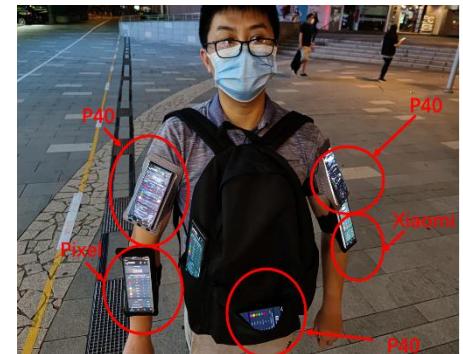
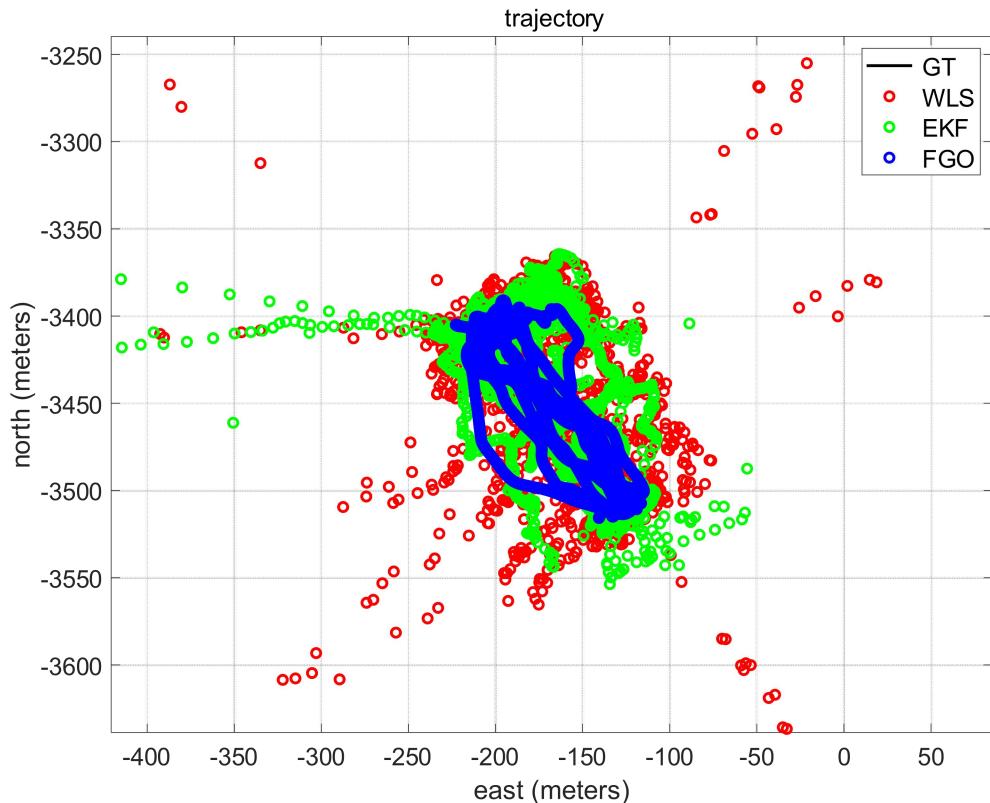
Assessment of Factor Graph Optimization

HUAWEI P40 Data



HUAWEI P40 Left Hand Data

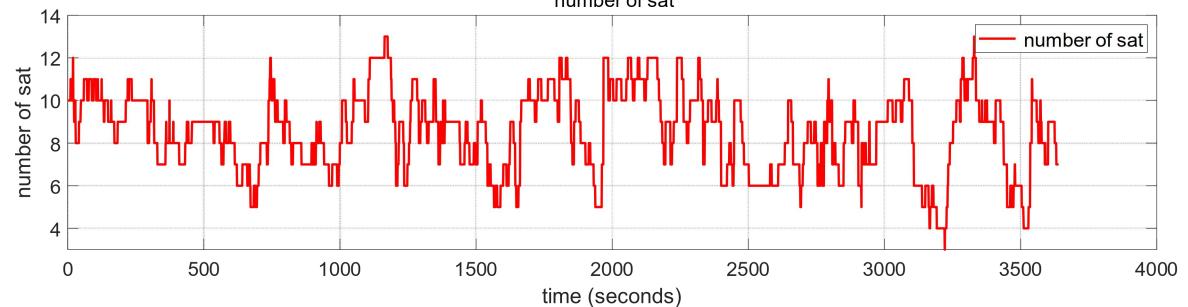
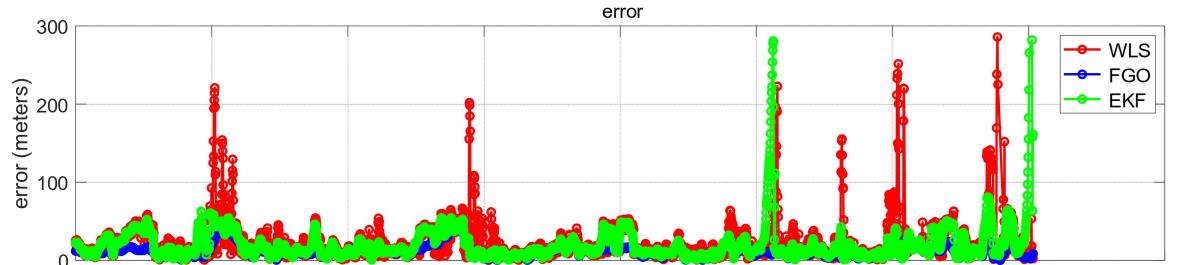
Time: 2021/07/12 21:58:02-22:58:42 TST East





HUAWEI P40 Left Hand Data

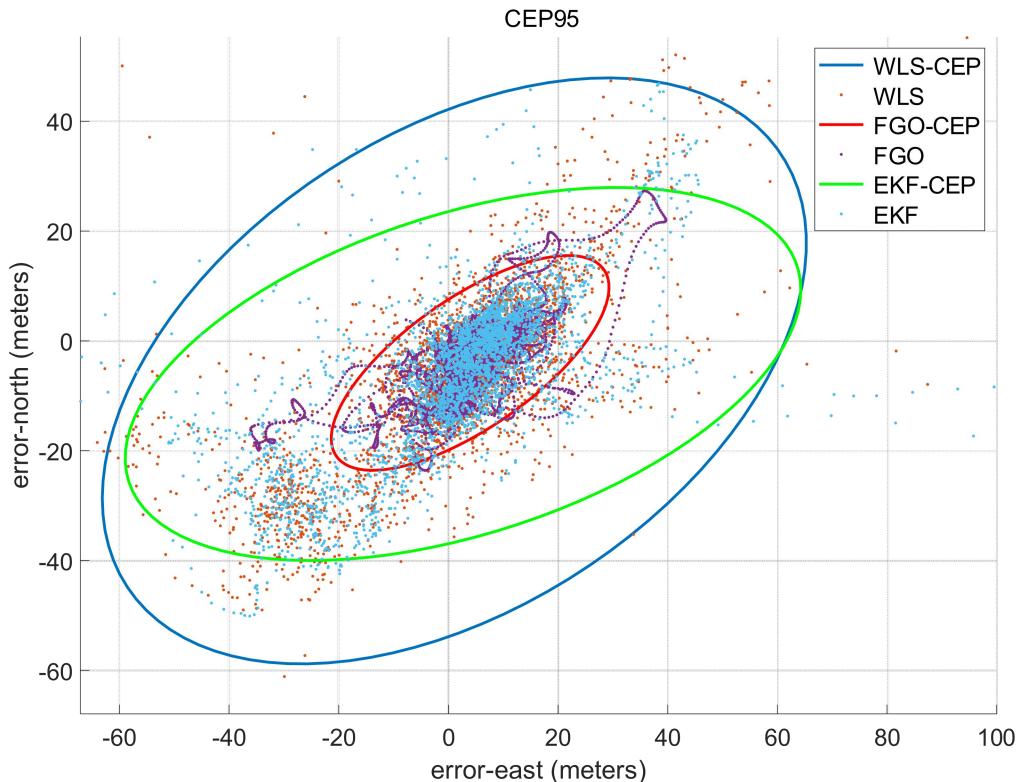
Time: 2021/07/12 21:58:02-22:58:42 TST East





HUAWEI P40 Left Hand Data

Time: 2021/07/12 21:58:02-22:58:42 TST East



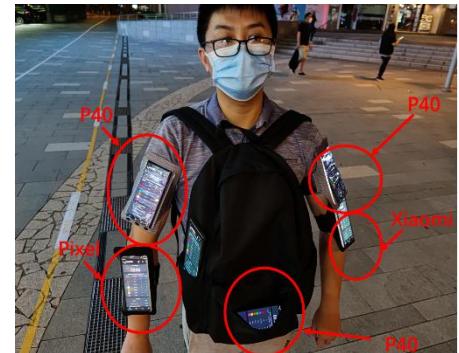


HUAWEI P40 Left Hand Data

Time: 2021/07/12 21:58:02-22:58:42 TST East

	RMS	MEAN	STD	MAX	MIN	CEP95-a	CEP95-b
WLS	34.556	22.548	26.189	285.84	0.098041	71.469	43.161
EKF	29.486	20.027	21.644	281.89	0.60321	64.041	29.14
FGO	14.236	11.875	7.8535	45.642	0.10734	29.733	11.833
EKF-INC	14.67%	11.18%	17.36%	1.38%	-515.26%	10.39%	32.49%
FGO-INC	58.80%	47.34%	70.01%	84.03%	9.49%	58.40%	72.59%

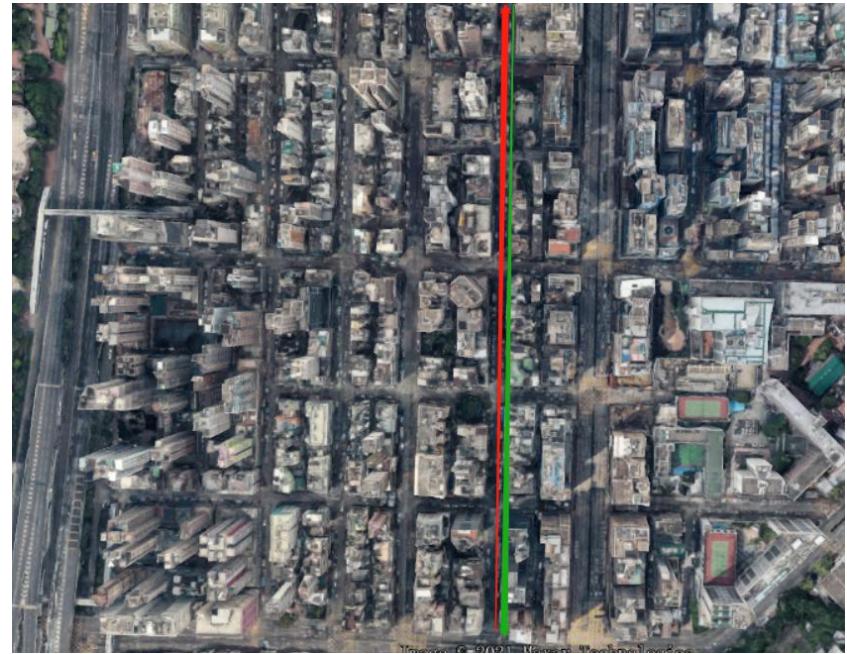
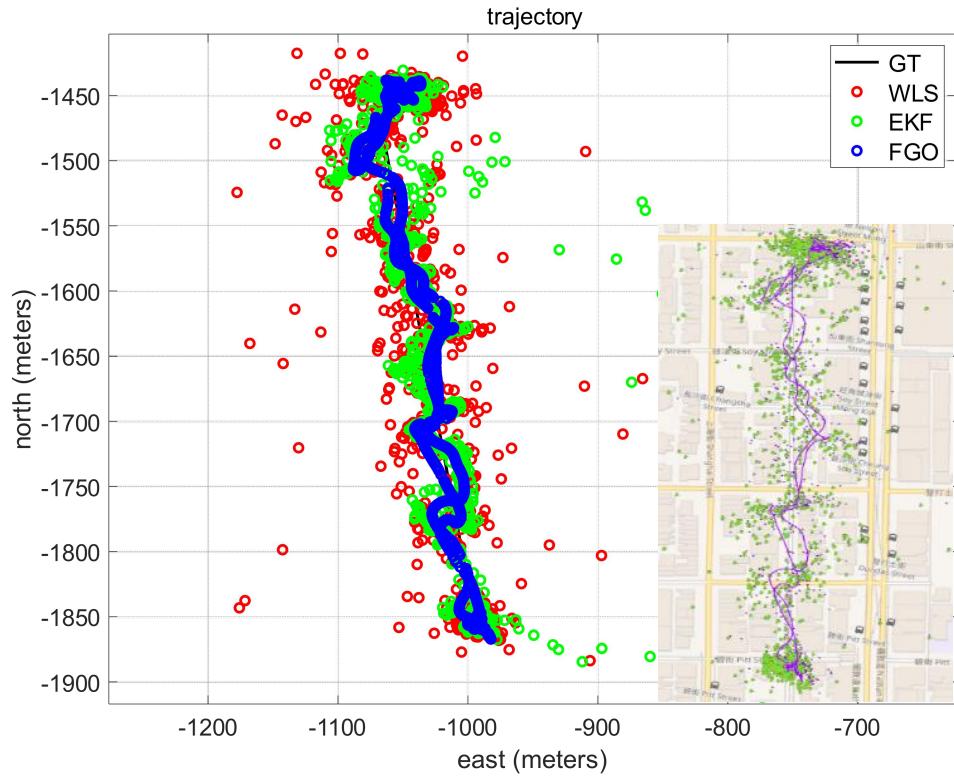
EKF-INC - Improvements of EKF compared to WLS
 FGO-INC - Improvements of FGO compared to WLS





HUAWEI P40 Bag Data

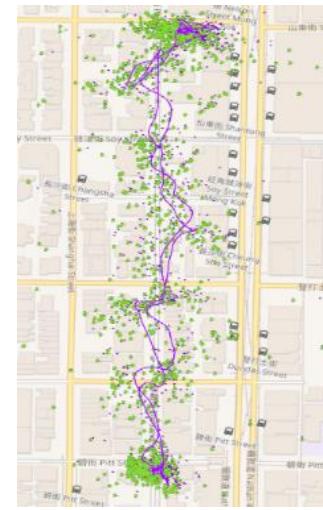
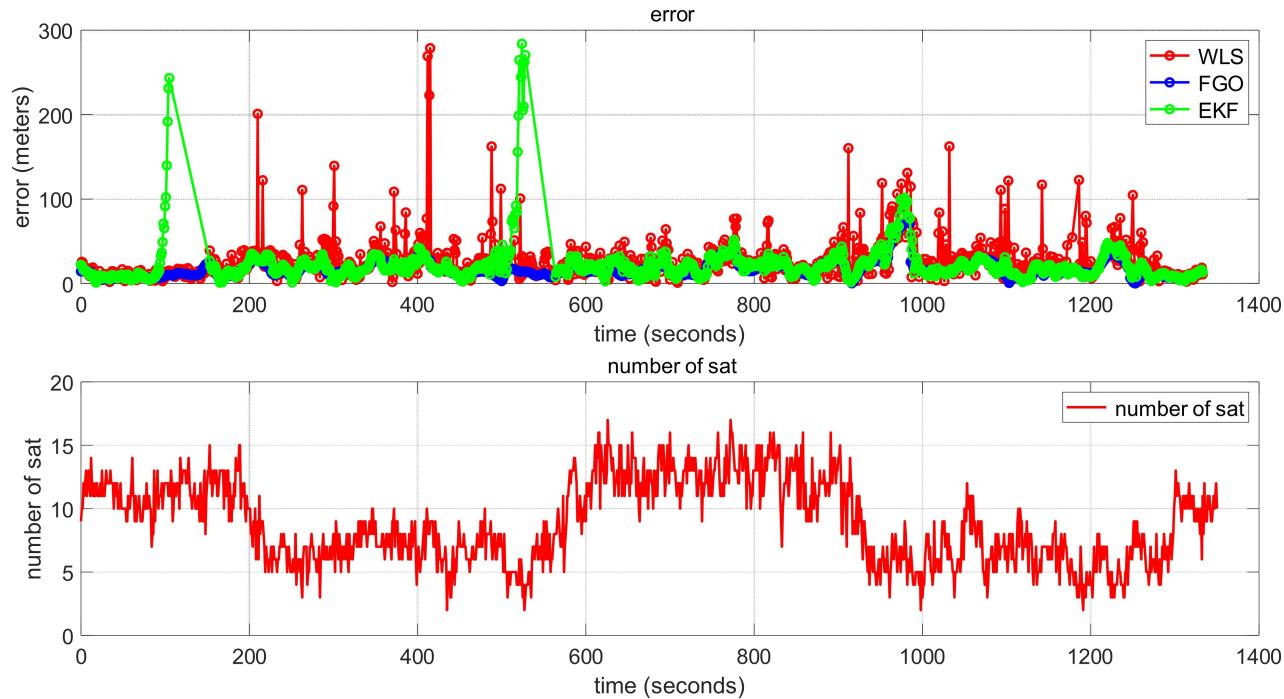
Time: 2021/09/12 19:00:00-19:22:30 Mong Kok





HUAWEI P40 Bag Data

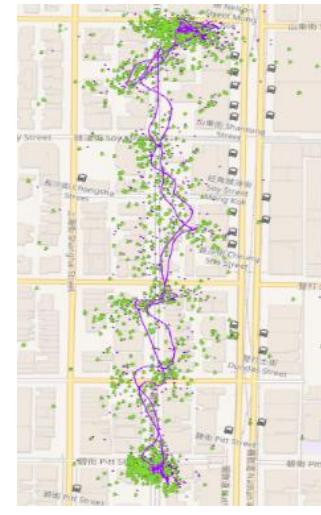
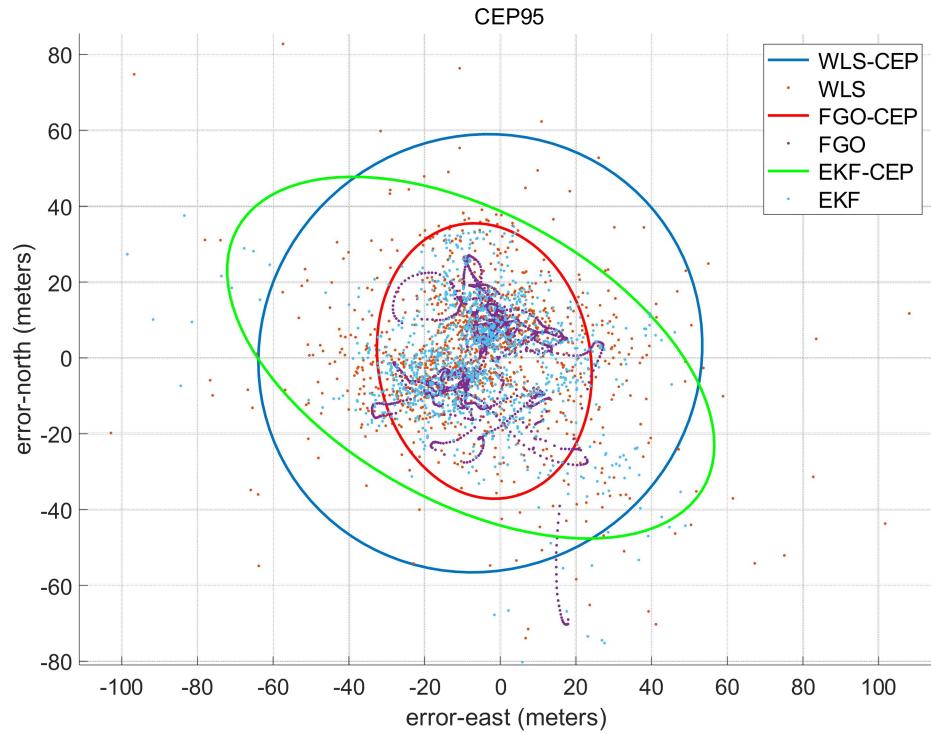
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HUAWEI P40 Bag Data

Time: 2021/09/12 19:00:00-19:22:30 Mong Kok



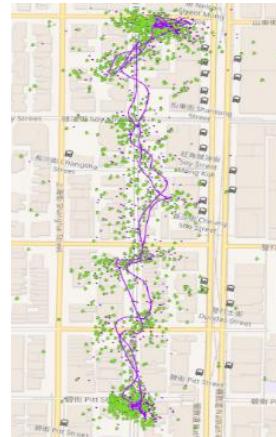
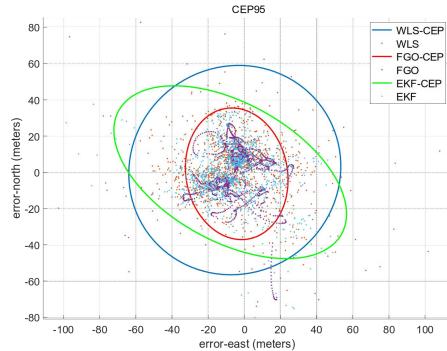


HUAWEI P40 Bag Data

Time: 2021/09/12 19:00:00-19:22:30 Mong Kok

	RMS	MEAN	STD	MAX	MIN	CEP95-a	CEP95-b
WLS	34.053	24.912	23.226	278.56	1.0327	59.366	57.053
EKF	33.632	22.313	25.174	283.79	1.0963	70.44	38.165
FGO	19.308	16.619	9.8314	72.47	0.25286	36.565	28.081
EKF-INC	1.24%	10.43%	-8.39%	-1.88%	-6.15%	-18.65%	33.11%
FGO-INC	43.30%	33.29%	57.67%	73.98%	75.52%	38.41%	50.78%

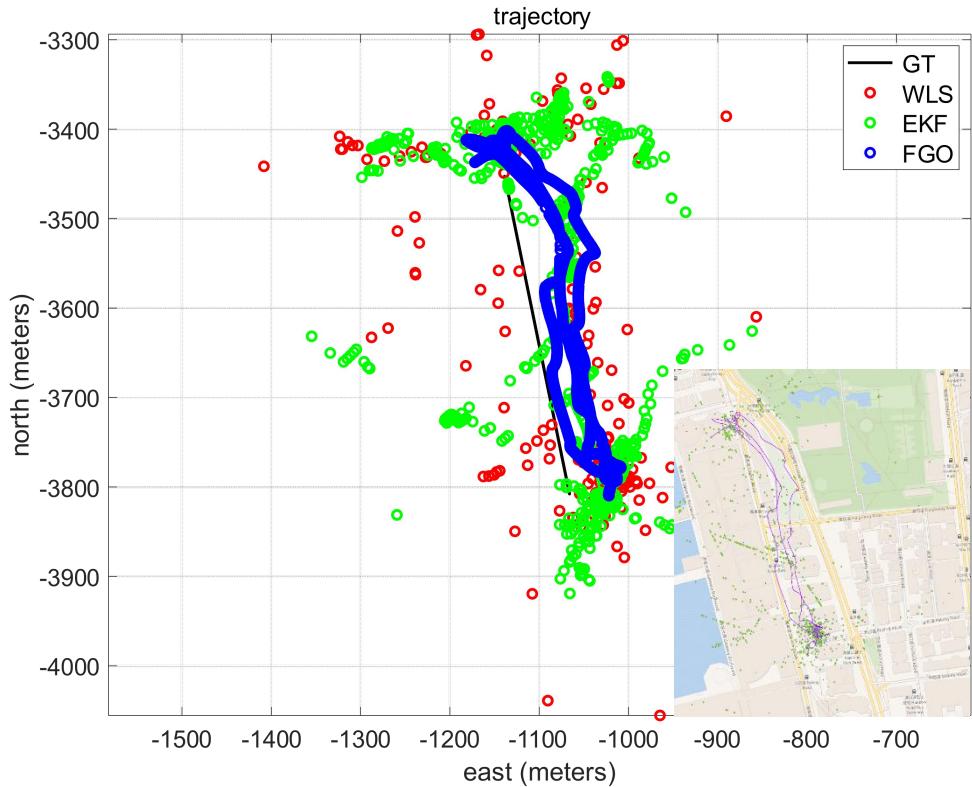
EKF-INC - Improvements of EKF compared to WLS
 FGO-INC - Improvements of FGO compared to WLS





HUAWEI P40 Left_Hand Data

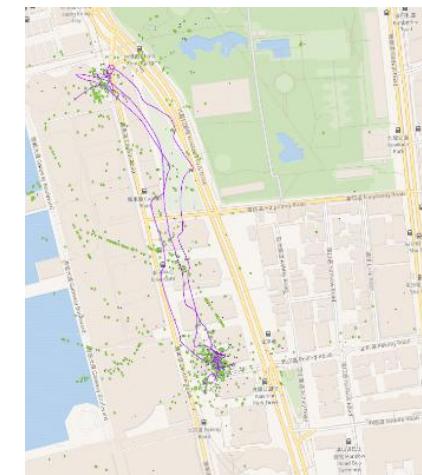
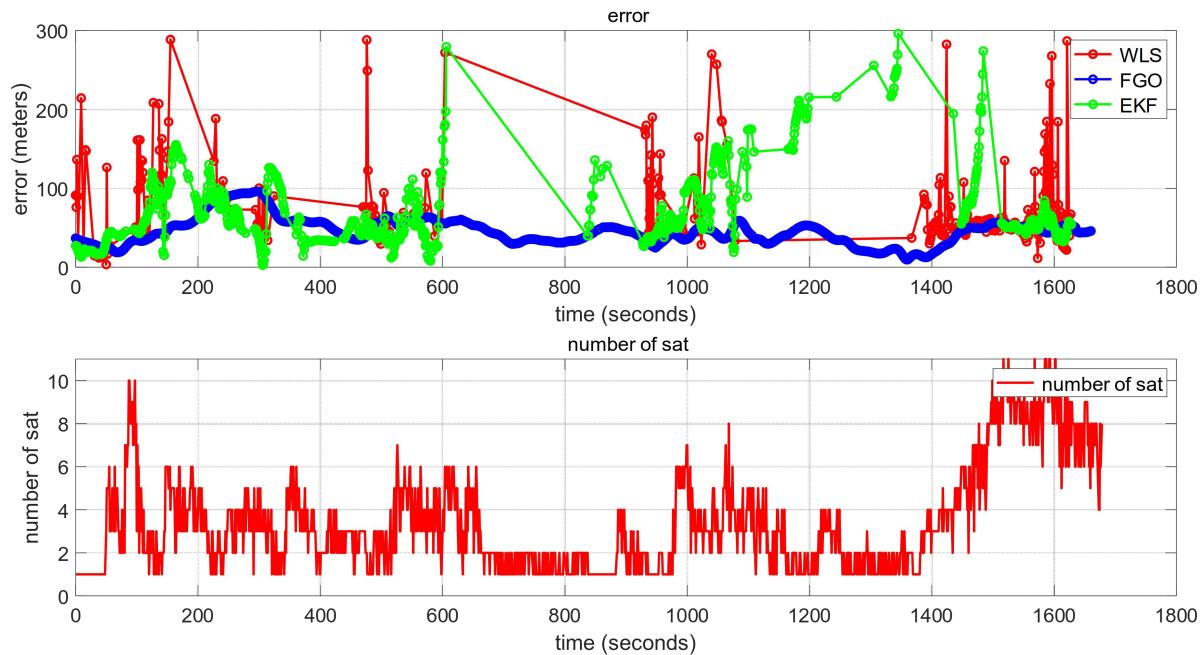
Time: 2021/09/12 21:00:00-21:27:59 Canton Rd





HUAWEI P40 Left_Hand Data

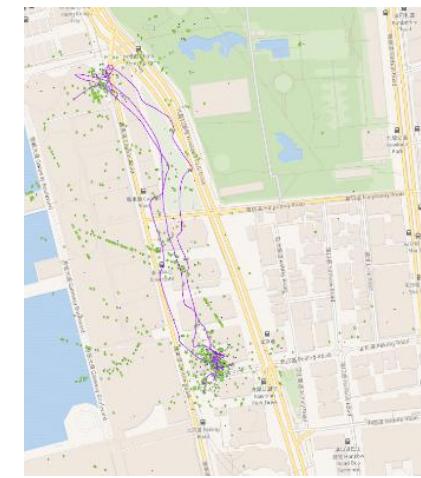
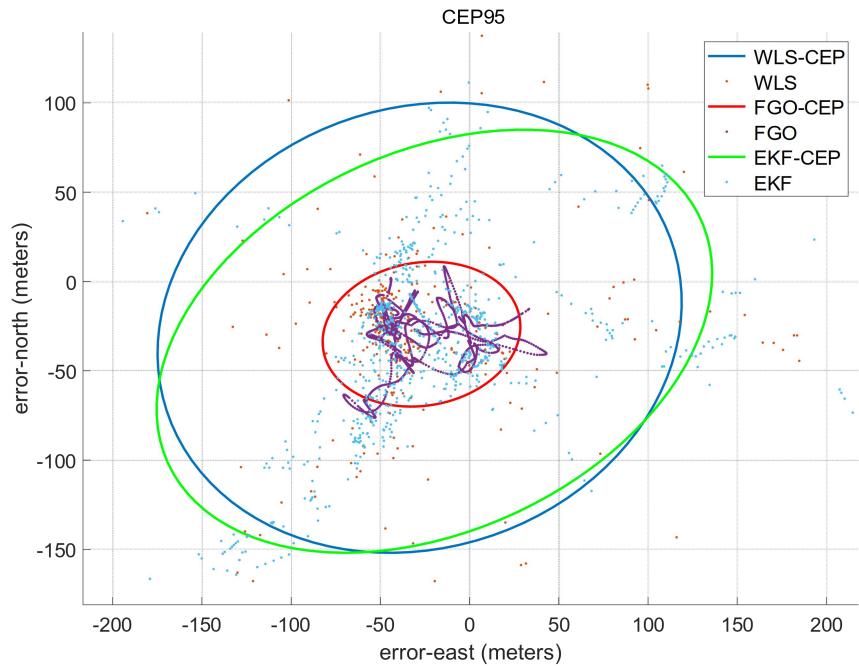
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HUAWEI P40 Left_Hand Data

Time: 2021/09/12 21:00:00-21:27:59 Canton Rd



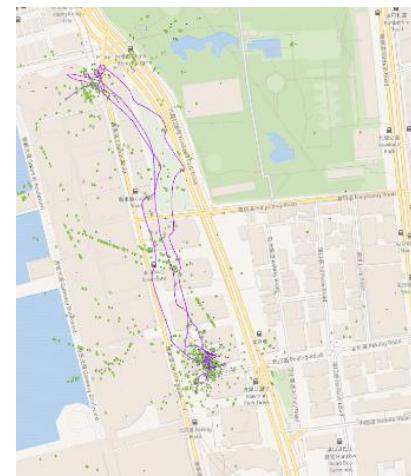
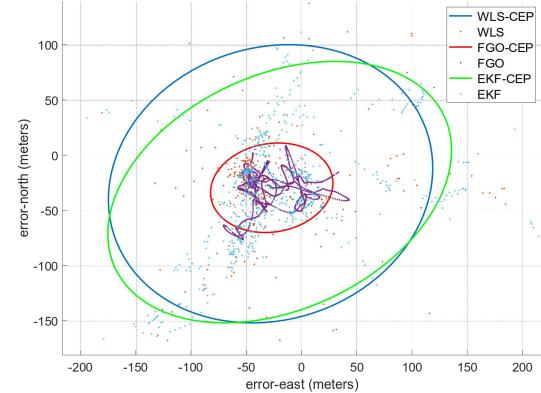


HUAWEI P40 Left_Hand Data

Time: 2021/09/12 21:00:00-21:27:59 Canton Rd

	RMS	MEAN	STD	MAX	MIN	CEP95-a	CEP95-b
WLS	87.682	71.883	50.277	288.38	3.4566	149.2	123.26
EKF	88.804	73.594	49.732	296.03	2.5508	164.17	106.37
FGO	48.8	45.635	17.293	96.047	9.6516	55.761	40.057
EKF-INC	-1.28%	-2.38%	1.08%	-2.65%	26.21%	-10.03%	13.70%
FGO-INC	44.34%	36.51%	65.60%	66.69%	179.22%	62.63%	67.50%

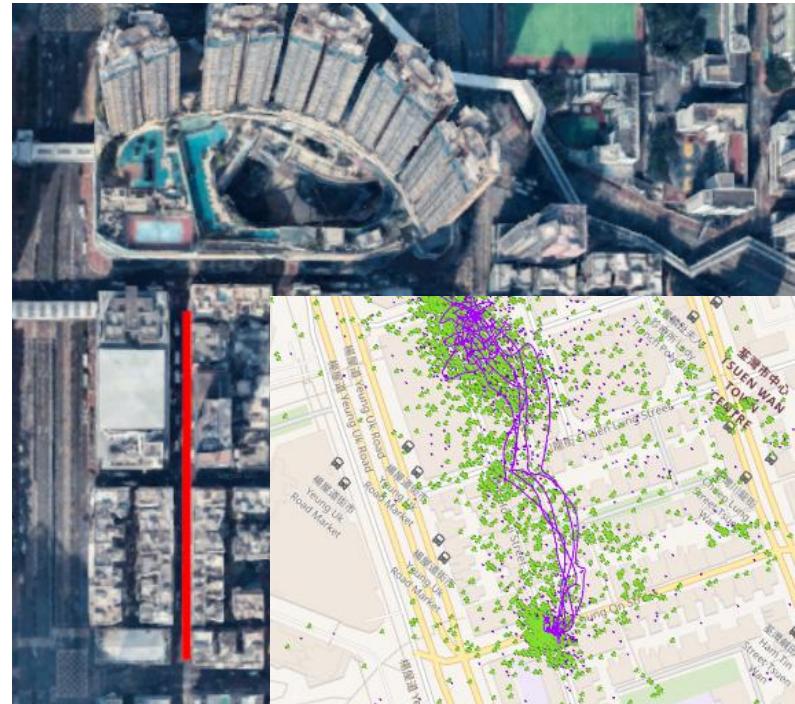
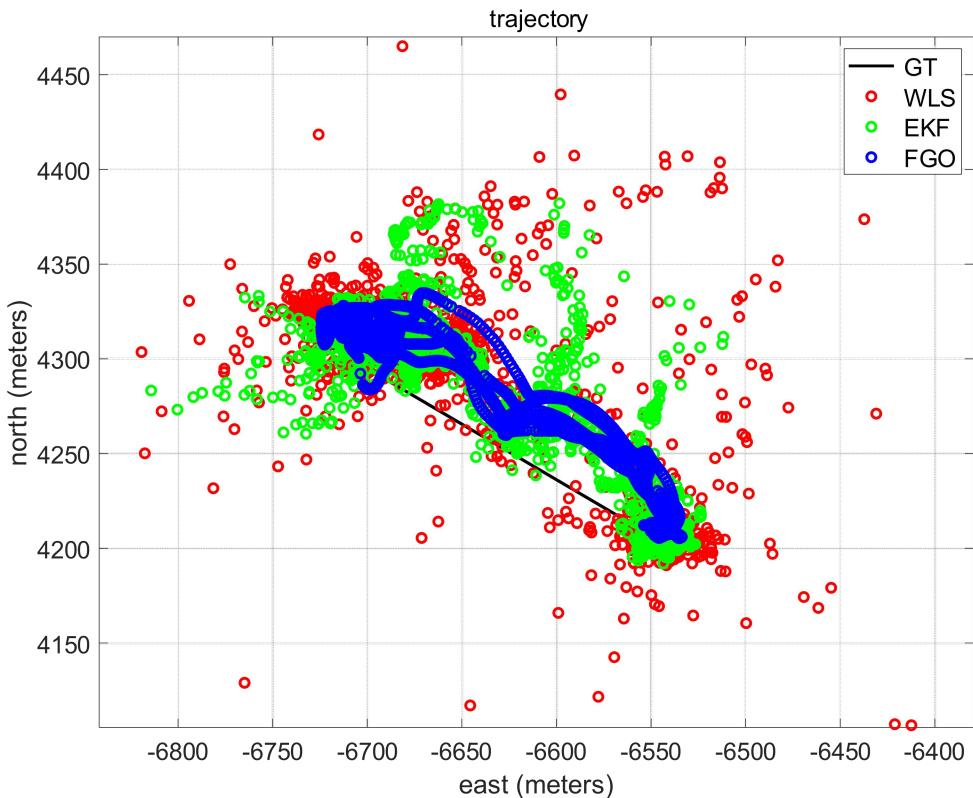
EKF-INC - Improvements of EKF compared to WLS
FGO-INC - Improvements of FGO compared to WLS





HUAWEI P40 Bag Data

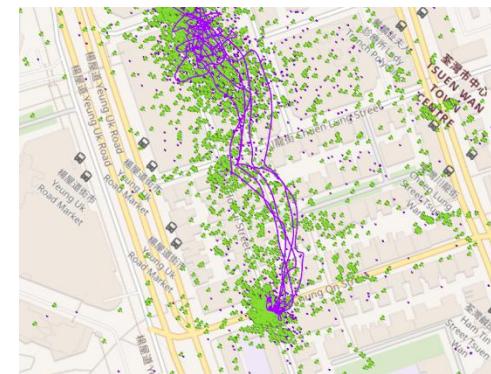
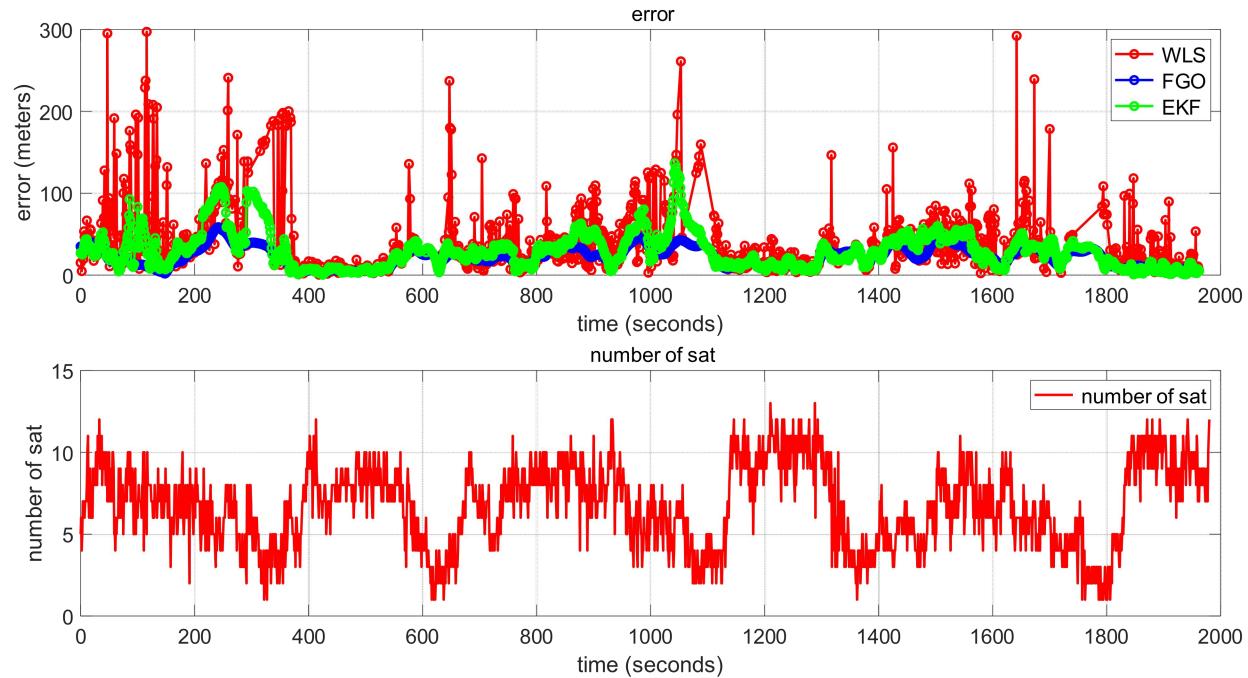
Time: 2021/09/30 19:26:30-20:00:00 Tsuen Wan





HUAWEI P40 Bag Data

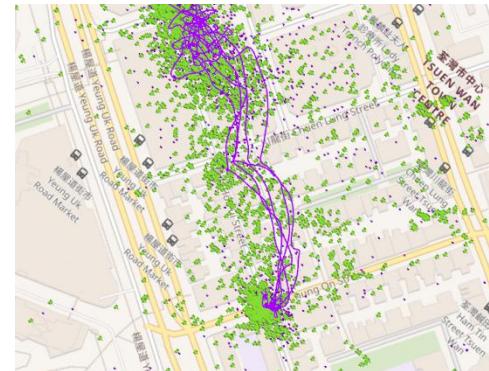
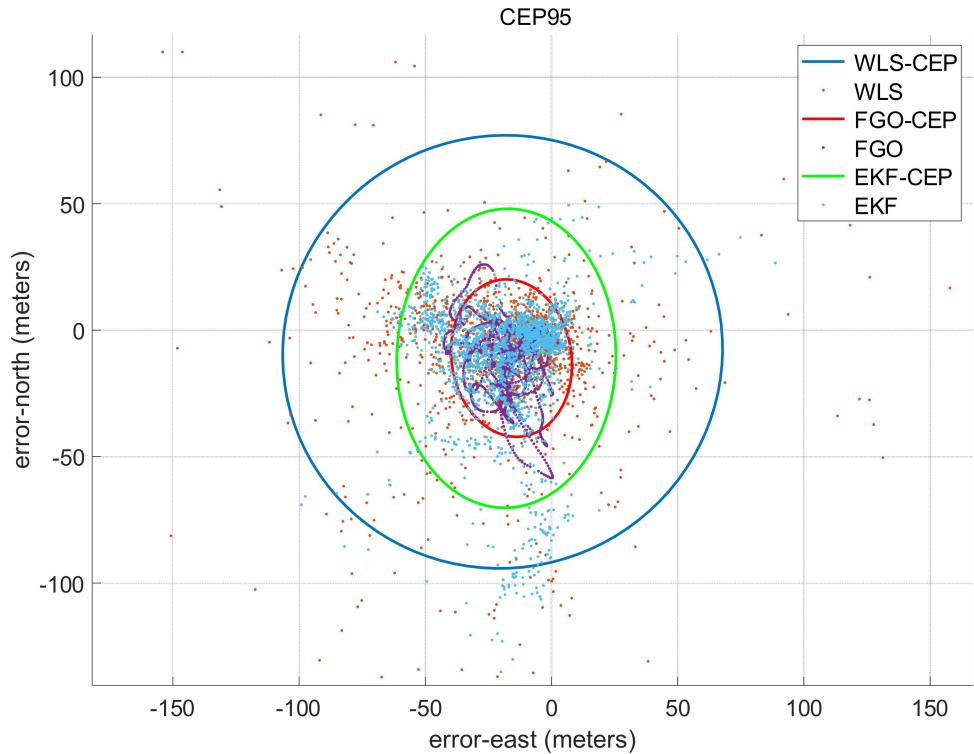
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HUAWEI P40 Bag Data

Time: 2021/09/30 19:26:30-20:00:00 Tsuen Wan

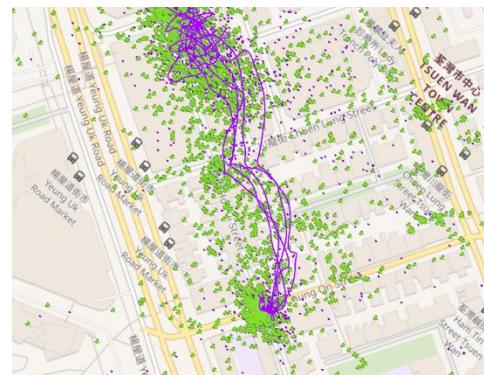
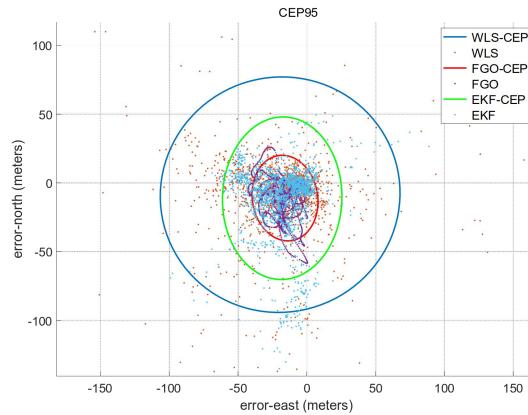




HUAWEI P40 Bag Data

Time: 2021/09/30 19:26:30-20:00:00 Tsuen Wan

	RMS	MEAN	STD	MAX	MIN	CEP95-a	CEP95-b
WLS	54.212	37.095	39.546	297.1	0.49175	87.364	85.412
EKF	36.632	29.132	22.215	136.57	0.36331	59.133	43.41
FGO	25.116	22.07	11.991	58.444	1.6372	31.29	23.757
EKF-INC	32.43%	21.47%	43.83%	54.03%	26.12%	32.31%	49.18%
FGO-INC	53.67%	40.51%	69.68%	80.33%	232.94%	64.19%	72.19%

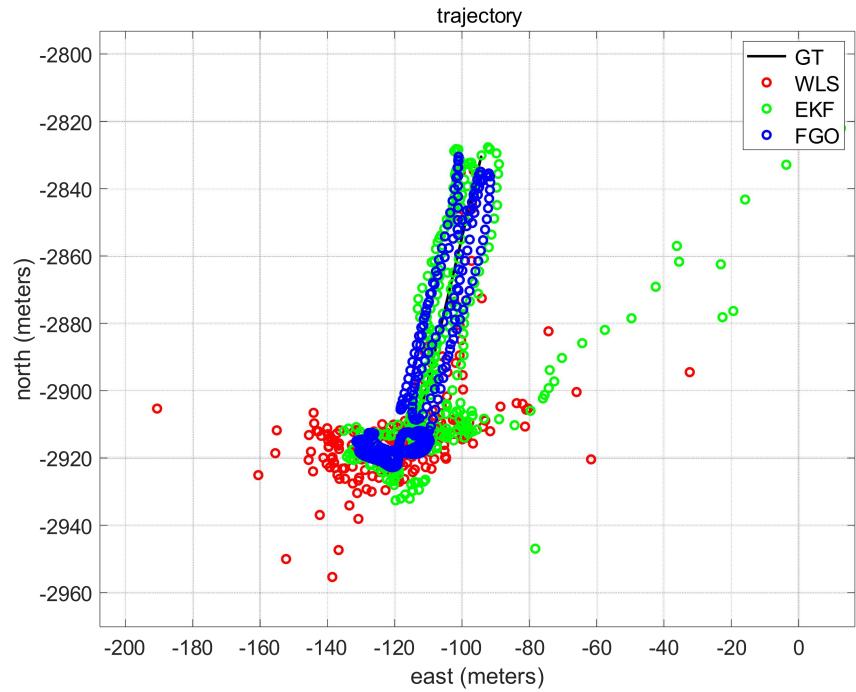


EKF-INC - Improvements of EKF compared to WLS
FGO-INC - Improvements of FGO compared to WLS



HUAWEI P40 Right Hand Data

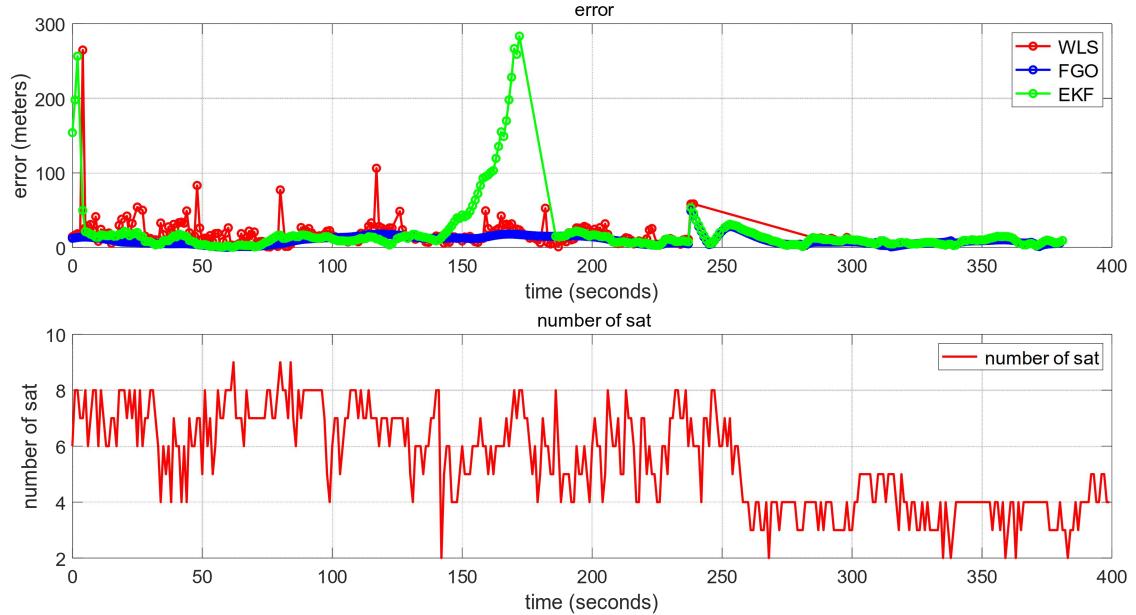
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HUAWEI P40 Right Hand Data

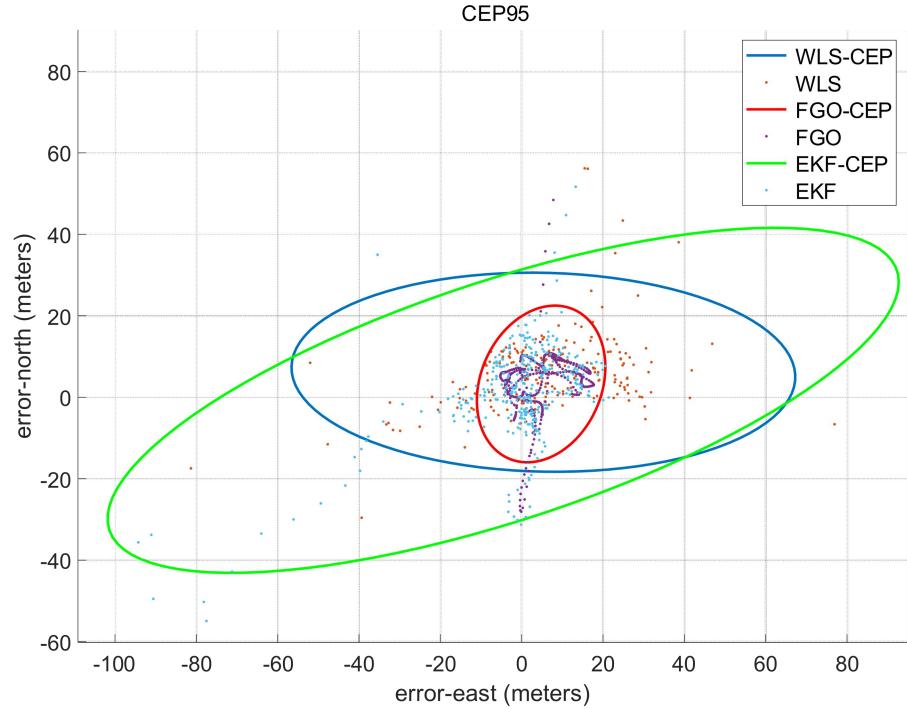
Time: 2021/11/06 15:26:40-15:33:24 Running





HUAWEI P40 Right Hand Data

Time: 2021/11/06 15:26:40-15:33:24 Running

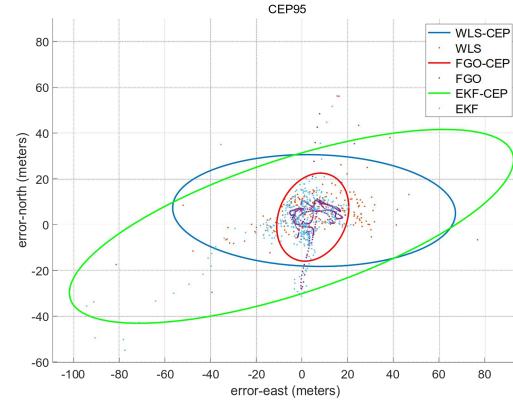




HUAWEI P40 Right Hand Data

Time: 2021/11/06 15:26:40-15:33:24 Running

	RMS	MEAN	STD	MAX	MIN	CEP95-a	CEP95-b
WLS	28.338	18.438	21.567	264.66	0.69632	61.956	24.413
EKF	43.532	20.333	38.546	283.25	0.33712	101.95	29.396
FGO	11.687	9.8565	6.2876	49.062	0.24001	19.966	14.863
EKF-INC	-53.62%	-10.27%	-78.73%	-7.02%	51.59%	-64.55%	-20.41%
FGO-INC	58.76%	46.54%	70.85%	81.46%	65.53%	67.77%	39.12%



EKF-INC - Improvements of EKF compared to WLS
FGO-INC - Improvements of FGO compared to WLS