

**Phase I Loop Closures**

**2001 Geodetic Control Densification**

**of**

**Jefferson County, Kentucky**



*GRW Aerial Surveys, Inc.  
801 Corporate Drive  
Lexington, Ky. 40503*

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 New Closure

From: SNOW RMA

To: EDWARD 2 Iono free fixed 8/17/01 16:45:50 0000  
 9872.SSF  
 2292.DAT Slope (m): 43725.741 38°17' 1.83098" N 0498  
 2292.DAT Total (m): 43725.741 085°54'22.99750" W 8405  
 246.2441 m

To: GOSHENRM Iono free fixed 8/16/01 14:09:00 0000  
 9760.SSF  
 2281.DAT Slope (m): 32943.991 38°24'28.74187" N 8405  
 2281.DAT Total (m): 76669.733 085°33'50.75928" W 0498  
 184.3482 m

To: HORRODS Iono free fixed 8/16/01 12:23:40 0000  
 9756.SSF  
 2280.DAT Slope (m): 11090.691 38°26'55.87955" N 8405  
 2281.DAT Total (m): 87760.423 085°26'53.53666" W 8208  
 210.2231 m

To: 48978ECC Iono free fixed 8/17/01 14:30:20 0000  
 9844.SSF  
 2291.DAT Slope (m): 47119.409 38°01'56.29893" N 9792  
 2291.DAT Total (m): 134879.832 085°20'40.66185" W 8208  
 115.7612 m

To: KY 13 Iono free fixed 8/17/01 12:24:20 0000  
 9828.SSF  
 2290.DAT Slope (m): 24548.661 37°53'49.22705" N 9792  
 2290.DAT Total (m): 159428.493 085°33'56.19341" W 0498  
 173.7958 m

To: SNOW RMA Iono free fixed 8/17/01 16:30:10 0000  
 9868.SSF  
 2293.DAT Slope (m): 38376.632 37°53'50.01614" N 8698  
 2292.DAT Total (m): 197805.125 086°00' 6.89954" W 0498  
 240.0852 m

Closed

Precision (ppm): 0.4639  
 Errors (m) N: -0.0124 E: 0.0032 U: -0.0909  
 Closure Log

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 New Closure

From: LOUSBASE

To: lou1 Iono free fixed 8/16/01 19:07:40 0000  
 9892.SSF  
 2280.RNX Slope (m): 49391.189 38°00'37.03740" N LOU1  
 2283.DAT Total (m): 49391.189 085°17'55.69832" W 8698  
 192.1590 m

To: BOWMANRS Iono free fixed 8/16/01 12:16:40 0000  
 9924.SSF

2280.RNX Slope (m): 39925.606 38°13'23.97903" N LOU1  
 2280.DAT Total (m): 89316.795 085°39'56.27880" W 0498  
 130.4200 m

To: SDF A Iono free fixed 8/16/01 18:41:40 0000  
 9800.SSF  
 2283.DAT Slope (m): 7696.132 38°10'42.96338" N 9792  
 2283.DAT Total (m): 97012.927 085°43'57.96369" W 8405  
 112.6405 m

To: LOUSBASE Iono free fixed 8/16/01 17:30:50 0000  
 9784.SSF  
 2282.DAT Slope (m): 9289.174 38°09' 3.69596" N 0498  
 2282.DAT Total (m): 106302.101 085°49'58.23973" W 8405  
 110.0806 m

Closed

Precision (ppm): 0.3717  
 Errors (m) N: 0.0123 E: 0.0181 U: 0.0329  
 Closure Log

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 New Closure

From: LOUSBASE  
 To: lou1 Iono free fixed 8/16/01 19:07:40 0000  
 9892.SSF  
 2280.RNX Slope (m): 49391.189 38°00'37.03740" N LOU1  
 2283.DAT Total (m): 49391.189 085°17'55.69832" W 8698  
 192.1590 m

To: BOWMANRS Iono free fixed 8/16/01 12:16:40 0000  
 9924.SSF  
 2280.RNX Slope (m): 39925.606 38°13'23.97903" N LOU1  
 2280.DAT Total (m): 89316.795 085°39'56.27880" W 0498  
 130.4200 m

To: SDF A Iono free fixed 8/16/01 18:41:40 0000  
 9800.SSF  
 2283.DAT Slope (m): 7696.132 38°10'42.96338" N 9792  
 2283.DAT Total (m): 97012.927 085°43'57.96369" W 8405  
 112.6405 m

To: LOUSBASE Iono free fixed 8/16/01 17:30:50 0000  
 9784.SSF  
 2282.DAT Slope (m): 9289.174 38°09' 3.69596" N 0498  
 2282.DAT Total (m): 106302.101 085°49'58.23973" W 8405  
 110.0806 m

Closed

Precision (ppm): 0.3717  
 Errors (m) N: 0.0123 E: 0.0181 U: 0.0329

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 New Closure

From: SNOW RMA

To: lou1 9928.SSF	Iono free fixed	8/17/01 14:28:30	0000
2290.RNX	Slope (m): 63057.882	38°00'37.03740" N	LOU1
2291.DAT	Total (m): 63057.882	085°17'55.69832" W	0498
		192.1590 m	
To: 48978ECC 9948.SSF	L1 fixed	8/17/01 12:16:40	0000
2290.RNX	Slope (m): 4708.336	38°01'56.29862" N	LOU1
2290.DAT	Total (m): 67766.219	085°20'40.66147" W	9792
		115.8465 m	
To: 31 K ECC 9840.SSF	Iono free fixed	8/17/01 14:47:40	0000
2291.DAT	Slope (m): 32870.720	37°59'17.57812" N	9792
2292.DAT	Total (m): 100636.939	085°42'53.08780" W	8698
		102.8452 m	
To: SNOW RMA 9860.SSF	Iono free fixed	8/17/01 14:11:00	0000
2291.DAT	Slope (m): 27188.865	37°53'50.01704" N	0498
2291.DAT	Total (m): 127825.803	086°00' 6.89883" W	8698
		240.2525 m	

Closed

Precision (ppm): 0.6302  
 Errors (m) N: 0.0153 E: 0.0205 U: 0.0764  
 Closure Log

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 New Closure

From: LOUSBASE

To: lou1 9892.SSF	Iono free fixed	8/16/01 19:07:40	0000
2280.RNX	Slope (m): 49391.189	38°00'37.03740" N	LOU1
2283.DAT	Total (m): 49391.189	085°17'55.69832" W	8698
		192.1590 m	
To: BOWMANRS 9924.SSF	Iono free fixed	8/16/01 12:16:40	0000
2280.RNX	Slope (m): 39925.606	38°13'23.97903" N	LOU1
2280.DAT	Total (m): 89316.795	085°39'56.27880" W	0498
		130.4200 m	
To: SDF A 9800.SSF	Iono free fixed	8/16/01 18:41:40	0000
2283.DAT	Slope (m): 7696.132	38°10'42.96338" N	9792
2283.DAT	Total (m): 97012.927	085°43'57.96369" W	8405
		112.6405 m	
To: LOUSBASE 9784.SSF	Iono free fixed	8/16/01 17:30:50	0000
2282.DAT	Slope (m): 9289.174	38°09' 3.69596" N	0498
2282.DAT	Total (m): 106302.101	085°49'58.23973" W	8405
		110.0806 m	

Closed

Precision (ppm): 0.3717  
 Errors (m) N: 0.0123 E: 0.0181 U: 0.0329

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New Closure

From: SNOW RMA

To: lou1 Iono free fixed 8/17/01 14:28:30 0000  
 9928.SSF  
 Slope (m): 63057.882 38°00'37.03740" N LOU1  
 2290.RNX  
 Total (m): 63057.882 085°17'55.69832" W 0498  
 2291.DAT  
 192.1590 m

To: 48978ECC L1 fixed 8/17/01 12:16:40 0000  
 9948.SSF  
 Slope (m): 4708.336 38°01'56.29862" N LOU1  
 2290.RNX  
 Total (m): 67766.219 085°20'40.66147" W 9792  
 2290.DAT  
 115.8465 m

To: 31 K ECC Iono free fixed 8/17/01 14:47:40 0000  
 9840.SSF  
 Slope (m): 32870.720 37°59'17.57812" N 9792  
 2291.DAT  
 Total (m): 100636.939 085°42'53.08780" W 8698  
 2292.DAT  
 102.8452 m

To: SNOW RMA Iono free fixed 8/17/01 14:11:00 0000  
 9860.SSF  
 Slope (m): 27188.865 37°53'50.01704" N 0498  
 2291.DAT  
 Total (m): 127825.803 086°00' 6.89883" W 8698  
 2291.DAT  
 240.2525 m

Closed

Precision (ppm): 0.6302  
 Errors (m) N: 0.0153 E: 0.0205 U: 0.0764

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New Closure

From: I64 L 21

To: lou1 Iono free fixed 8/16/01 12:27:40 0000  
 9920.SSF  
 Slope (m): 24281.439 38°00'37.03780" N LOU1  
 2280.RNX  
 Total (m): 24281.439 085°17'55.69850" W 8698  
 2280.DAT  
 192.2203 m

To: J 334ECC Iono free fixed 8/16/01 17:15:00 0000  
 9904.SSF  
 Slope (m): 56836.379 37°59'56.67080" N LOU1  
 2280.RNX  
 Total (m): 81117.818 085°56'44.80349" W 8698  
 2282.DAT  
 101.7302 m

To: LOUSBASE Iono free fixed 8/16/01 17:08:40 0000  
 9780.SSF  
 Slope (m): 19562.093 38°09' 3.69578" N 8698  
 2282.DAT  
 Total (m): 100679.911 085°49'58.24053" W 0498  
 2282.DAT  
 110.2112 m

To: KY 05 Iono free fixed 8/16/01 19:07:40 0000  
 9804.SSF  
 Slope (m): 9670.897 38°11'42.85055" N 0498  
 2283.DAT  
 Total (m): 110350.808 085°44'15.88140" W 8698  
 2283.DAT  
 115.9359 m

To: BOWMANRS Iono free fixed 8/16/01 19:03:50 0000  
 9796.SSF  
 Slope (m): 7043.640 38°13'23.97864" N 9792  
 2283.DAT  
 Total (m): 117394.448 085°39'56.27968" W 0498  
 2283.DAT  
 130.5489 m

To: I64 L 21 Iono free fixed 8/16/01 12:16:40 0000  
 9744.SSF  
 Slope (m): 23810.158 38°12'56.60972" N 8698  
 2280.DAT  
 Total (m): 141204.606 085°23'38.08727" W 0498  
 2280.DAT  
 195.0050 m

Closed

Precision (ppm): 0.3751  
 Errors (m) N: -0.0159 E: -0.0230 U: 0.0450  
 Closure Log

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New Closure

From: LOUSBASE

To: lou1 Iono free fixed 8/16/01 19:07:40 0000  
 9892.SSF  
 Slope (m): 49391.189 38°00'37.03740" N LOU1  
 2280.RNX  
 Total (m): 49391.189 085°17'55.69832" W 8698  
 2283.DAT  
 192.1590 m

To: BOWMANRS Iono free fixed 8/16/01 12:16:40 0000  
 9924.SSF  
 Slope (m): 39925.606 38°13'23.97903" N LOU1  
 2280.RNX  
 Total (m): 89316.795 085°39'56.27880" W 0498  
 2280.DAT  
 130.4200 m

To: SDF A Iono free fixed 8/16/01 18:41:40 0000  
 9800.SSF  
 Slope (m): 7696.132 38°10'42.96338" N 9792  
 2283.DAT  
 Total (m): 97012.927 085°43'57.96369" W 8405  
 2283.DAT  
 112.6405 m

To: LOUSBASE Iono free fixed 8/16/01 17:30:50 0000  
 9784.SSF  
 Slope (m): 9289.174 38°09' 3.69596" N 0498  
 2282.DAT  
 Total (m): 106302.101 085°49'58.23973" W 8405  
 2282.DAT  
 110.0806 m

Closed

Precision (ppm): 0.3717  
 Errors (m) N: 0.0123 E: 0.0181 U: 0.0329

\*\*\*\*\*

New Closure

From: SNOW RMA

To: lou1 9928.SSF	Iono free fixed	8/17/01 14:28:30	0000
2290.RNX	Slope (m):	63057.882 38°00'37.03740" N	LOU1
2291.DAT	Total (m):	63057.882 085°17'55.69832" W	0498
		192.1590 m	
To: 48978ECC 9948.SSF	L1 fixed	8/17/01 12:16:40	0000
2290.RNX	Slope (m):	4708.336 38°01'56.29862" N	LOU1
2290.DAT	Total (m):	67766.219 085°20'40.66147" W	9792
		115.8465 m	
To: 31 K ECC 9840.SSF	Iono free fixed	8/17/01 14:47:40	0000
2291.DAT	Slope (m):	32870.720 37°59'17.57812" N	9792
2292.DAT	Total (m):	100636.939 085°42'53.08780" W	8698
		102.8452 m	
To: SNOW RMA 9860.SSF	Iono free fixed	8/17/01 14:11:00	0000
2291.DAT	Slope (m):	27188.865 37°53'50.01704" N	0498
2291.DAT	Total (m):	127825.803 086°00' 6.89883" W	8698
		240.2525 m	

Closed

Precision (ppm): 0.6302  
 Errors (m) N: 0.0153 E: 0.0205 U: 0.0764

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New Closure

From: I64 L 21

To: lou1 9920.SSF	Iono free fixed	8/16/01 12:27:40	0000
2280.RNX	Slope (m):	24281.439 38°00'37.03780" N	LOU1
2280.DAT	Total (m):	24281.439 085°17'55.69850" W	8698
		192.2203 m	
To: J 334ECC 9904.SSF	Iono free fixed	8/16/01 17:15:00	0000
2280.RNX	Slope (m):	56836.379 37°59'56.67080" N	LOU1
2282.DAT	Total (m):	81117.818 085°56'44.80349" W	8698
		101.7302 m	
To: LOUSBASE 9780.SSF	Iono free fixed	8/16/01 17:08:40	0000
2282.DAT	Slope (m):	19562.093 38°09' 3.69578" N	8698
2282.DAT	Total (m):	100679.911 085°49'58.24053" W	0498
		110.2112 m	
To: KY 05 9804.SSF	Iono free fixed	8/16/01 19:07:40	0000
2283.DAT	Slope (m):	9670.897 38°11'42.85055" N	0498
2283.DAT	Total (m):	110350.808 085°44'15.88140" W	8698

115.9359 m  
 To: BOWMANRS Iono free fixed 8/16/01 19:03:50 0000  
 9796.SSF  
 2283.DAT Slope (m): 7043.640 38°13'23.97864" N 9792  
 2283.DAT Total (m): 117394.448 085°39'56.27968" W 0498

130.5489 m  
 To: I64 L 21 Iono free fixed 8/16/01 12:16:40 0000  
 9744.SSF  
 2280.DAT Slope (m): 23810.158 38°12'56.60972" N 8698  
 2280.DAT Total (m): 141204.606 085°23'38.08727" W 0498

Closed

Precision (ppm): 0.3751  
 Errors (m) N: -0.0159 E: -0.0230 U: 0.0450

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 New Closure

From: 48978ECC  
 To: I64 L 21 Iono free fixed 8/17/01 12:16:40 0000  
 9824.SSF  
 2290.DAT Slope (m): 20813.597 38°12'56.60926" N 8208  
 2290.DAT Total (m): 20813.597 085°23'38.08578" W 9792

194.9341 m  
 To: HORRODS Iono free fixed 8/16/01 12:23:40 0000  
 9740.SSF  
 2280.DAT Slope (m): 26310.727 38°26'55.87866" N 8698  
 2281.DAT Total (m): 47124.324 085°26'53.53679" W 8208

210.3622 m  
 To: GOSHENRM Iono free fixed 8/16/01 12:23:40 0000  
 9756.SSF  
 2280.DAT Slope (m): 11090.691 38°24'28.74099" N 8405  
 2281.DAT Total (m): 58215.015 085°33'50.75940" W 8208

184.4873 m  
 To: lou1 Iono free fixed 8/16/01 14:56:00 0000  
 9908.SSF  
 2280.RNX Slope (m): 49887.179 38°00'37.03612" N LOU1  
 2281.DAT Total (m): 108102.194 085°17'55.69728" W 8405

192.1935 m  
 To: 48978ECC L1 fixed 8/17/01 14:11:10 0000  
 9936.SSF  
 2290.RNX Slope (m): 4708.347 38°01'56.29776" N LOU1  
 2291.DAT Total (m): 112810.541 085°20'40.66065" W 9792

Closed

Precision (ppm): 0.5151  
 Errors (m) N: -0.0266 E: 0.0200 U: 0.0476  
 Closure Log

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New Closure

From: KY 05

To: I64 L 21 9820.SSF	Iono free fixed	8/17/01 12:14:50	0000
2290.DAT	Slope (m):	30201.671	38°12'56.61141" N 8208
2290.DAT	Total (m):	30201.671	085°23'38.08962" W 8405
			194.7522 m

To: BOWMANRS 9744.SSF	Iono free fixed	8/16/01 12:16:40	0000
2280.DAT	Slope (m):	23810.158	38°13'23.98033" N 8698
2280.DAT	Total (m):	54011.829	085°39'56.28208" W 0498
			130.2963 m

To: KY 05 9796.SSF	Iono free fixed	8/16/01 19:03:50	0000
2283.DAT	Slope (m):	7043.640	38°11'42.85223" N 9792
2283.DAT	Total (m):	61055.469	085°44'15.88381" W 0498
			115.6834 m

Closed

Precision (ppm): 0.3056  
 Errors (m) N: 0.0107 E: 0.0000 U: -0.0153  
 Closure Log

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 New Closure

From: EDWARD 2

To: X 349 9764.SSF	Iono free fixed	8/16/01 14:08:20	0000
2281.DAT	Slope (m):	19628.530	38°17'23.41617" N 0498
2282.DAT	Total (m):	19628.530	085°40'55.84144" W 8208
			98.9929 m

To: BOWMANRS 9748.SSF	Iono free fixed	8/16/01 12:27:10	0000
2280.DAT	Slope (m):	7523.531	38°13'23.98062" N 0498
2280.DAT	Total (m):	27152.062	085°39'56.28763" W 9792
			130.6230 m

To: KY 05 9796.SSF	Iono free fixed	8/16/01 19:03:50	0000
2283.DAT	Slope (m):	7043.640	38°11'42.85253" N 9792
2283.DAT	Total (m):	34195.702	085°44'15.88934" W 0498
			116.0102 m

To: I64 L 21 9820.SSF	Iono free fixed	8/17/01 12:14:50	0000
2290.DAT	Slope (m):	30201.671	38°12'56.61207" N 8208
2290.DAT	Total (m):	64397.372	085°23'38.09521" W 8405
			195.0631 m

To: KY 13 9864.SSF	Iono free fixed	8/17/01 16:14:50	0000
2292.DAT	Slope (m):	38453.549	37°53'49.22937" N 9792

2293.DAT	Total (m):	102850.922	085°33'56.20247" W	8698
			174.0296 m	
To: 31 K ECC 9832.SSF	Iono free fixed		8/17/01 12:23:40	0000
2290.DAT	Slope (m):	16563.834	37°59'17.58037" N	0498
2290.DAT	Total (m):	119414.755	085°42'53.09708" W	8698
			102.9915 m	
To: J 334ECC 9876.SSF	Iono free fixed		8/17/01 14:47:40	0000
2291.DAT	Slope (m):	20329.917	37°59'56.67259" N	8405
2292.DAT	Total (m):	139744.672	085°56'44.81159" W	8698
			101.8281 m	
To: H 323ECC 9776.SSF	Iono free fixed		8/16/01 17:15:00	0000
2282.DAT	Slope (m):	22586.812	38°11'50.44946" N	9792
2282.DAT	Total (m):	162331.484	085°53'16.32107" W	8698
			98.4083 m	
To: EDWARD 2 9772.SSF	Iono free fixed		8/16/01 14:13:20	0000
2281.DAT	Slope (m):	9738.460	38°17' 1.83312" N	0498
2281.DAT	Total (m):	172069.944	085°54'23.00592" W	9792
			246.4568 m	

Closed

Precision (ppm): 0.0638  
 Errors (m) N: -0.0076 E: 0.0031 U: -0.0073  
 Closure Log

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 New Closure

From: EDWARD 2

To: X 349 9764.SSF	Iono free fixed		8/16/01 14:08:20	0000
2281.DAT	Slope (m):	19628.530	38°17'23.41617" N	0498
2282.DAT	Total (m):	19628.530	085°40'55.84144" W	8208
			98.9929 m	
To: BOWMANRS 9748.SSF	Iono free fixed		8/16/01 12:27:10	0000
2280.DAT	Slope (m):	7523.531	38°13'23.98062" N	0498
2280.DAT	Total (m):	27152.062	085°39'56.28763" W	9792
			130.6230 m	
To: KY 05 9796.SSF	Iono free fixed		8/16/01 19:03:50	0000
2283.DAT	Slope (m):	7043.640	38°11'42.85253" N	9792
2283.DAT	Total (m):	34195.702	085°44'15.88934" W	0498
			116.0102 m	
To: I64 L 21 9820.SSF	Iono free fixed		8/17/01 12:14:50	0000
2290.DAT	Slope (m):	30201.671	38°12'56.61207" N	8208

2290.DAT	Total (m):	64397.372	085°23'38.09521" W	8405
			195.0631 m	
To: KY 13 9864.SSF	Iono free fixed		8/17/01 16:14:50	0000
2292.DAT	Slope (m):	38453.549	37°53'49.22937" N	9792
2293.DAT	Total (m):	102850.922	085°33'56.20247" W	8698
			174.0296 m	
To: 31 K ECC 9832.SSF	Iono free fixed		8/17/01 12:23:40	0000
2290.DAT	Slope (m):	16563.834	37°59'17.58037" N	0498
2290.DAT	Total (m):	119414.755	085°42'53.09708" W	8698
			102.9915 m	
To: J 334ECC 9876.SSF	Iono free fixed		8/17/01 14:47:40	0000
2291.DAT	Slope (m):	20329.917	37°59'56.67259" N	8405
2292.DAT	Total (m):	139744.672	085°56'44.81159" W	8698
			101.8281 m	
To: H 323ECC 9776.SSF	Iono free fixed		8/16/01 17:15:00	0000
2282.DAT	Slope (m):	22586.812	38°11'50.44946" N	9792
2282.DAT	Total (m):	162331.484	085°53'16.32107" W	8698
			98.4083 m	
To: EDWARD 2 9772.SSF	Iono free fixed		8/16/01 14:13:20	0000
2281.DAT	Slope (m):	9738.460	38°17' 1.83312" N	0498
2281.DAT	Total (m):	172069.944	085°54'23.00592" W	9792
			246.4568 m	
Closed				
Precision (ppm):	0.0638			
Errors (m) N:	-0.0076	E:	0.0031	U: -0.0073
*****				
New Closure				
From: SDF A				
To: SDF E 9812.SSF	L1 fixed		8/16/01 18:41:40	0000
2284.DAT	Slope (m):	1085.049	38°11'16.87307" N	8208
2283.DAT	Total (m):	1085.049	085°44' 9.87833" W	8405
			115.8154 m	
To: KY 05 9808.SSF	L1 fixed		8/16/01 18:49:20	0000
2283.DAT	Slope (m):	814.191	38°11'42.85027" N	0498
2284.DAT	Total (m):	1899.240	085°44'15.88129" W	8208
			115.8697 m	
To: 31 K ECC 9836.SSF	Iono free fixed		8/17/01 12:14:50	0000
2290.DAT	Slope (m):	23067.628	37°59'17.57831" N	8698
	Total (m):	24966.867	085°42'53.08894" W	8405

```

2290.DAT
                                                    102.8325  m

To:      J 334ECC                Iono free fixed      8/17/01 14:47:40      0000
9876.SSF
Slope (m):                20329.917          37°59'56.67054" N      8405
2291.DAT
Total (m):                45296.784          085°56'44.80347" W      8698
2292.DAT
                                                    101.6685  m

To:      LOUSBASE                Iono free fixed      8/16/01 17:08:40      0000
9780.SSF
Slope (m):                19562.093          38°09'  3.69554" N      8698
2282.DAT
Total (m):                64858.877          085°49'58.24050" W      0498
2282.DAT
                                                    110.1495  m

To:      SDF A                   Iono free fixed      8/16/01 19:07:40      0000
9816.SSF
Slope (m):                9289.171           38°10'42.96280" N      8405
2283.DAT
Total (m):                74148.048          085°43'57.96454" W      8698
2283.DAT
                                                    112.7048  m

Closed

Precision (ppm):          0.0519
Errors (m)   N:           0.0000   E:    -0.0020   U:           0.0033
Closure Log

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New Closure

From:  LOUSBASE

To:      KY 05                   Iono free fixed      8/16/01 19:07:40      0000
9804.SSF
Slope (m):                9670.897           38°11'42.85033" N      0498
2283.DAT
Total (m):                9670.897           085°44'15.88134" W      8698
2283.DAT
                                                    115.7725  m

To:      EDWARD 2                Iono free fixed      8/16/01 14:05:00      0000
9768.SSF
Slope (m):                17741.077          38°17'  1.83073" N      0498
2281.DAT
Total (m):                27411.975          085°54'22.99834" W      8698
2281.DAT
                                                    246.1869  m

To:      SNOW RMA                Iono free fixed      8/17/01 16:45:50      0000
9872.SSF
Slope (m):                43725.741          37°53'50.01628" N      0498
2292.DAT
Total (m):                71137.716          086°00'  6.90050" W      8405
2292.DAT
                                                    240.1189  m

To:      J 334ECC                Iono free fixed      8/17/01 14:28:30      0000
9856.SSF
Slope (m):                12335.725          37°59'56.67038" N      8405
2291.DAT
Total (m):                83473.441          085°56'44.80389" W      0498
2291.DAT
                                                    101.5914  m

To:      LOUSBASE                Iono free fixed      8/16/01 17:08:40      0000
9780.SSF
Slope (m):                19562.093          38°09'  3.69538" N      8698
2282.DAT
Total (m):                103035.534         085°49'58.24092" W      0498

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2282.DAT 110.0723 m

Closed

Precision (ppm): 0.2658  
 Errors (m) N: -0.0055 E: -0.0107 U: 0.0246  
 Closure Log

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 New Closure

From: H 323ECC

To: SDF E	Iono free fixed	8/16/01 17:12:00	0000
9792.SSF			
	Slope (m):	13337.369	38°11'16.87326" N 8208
2283.DAT	Total (m):	13337.369	085°44' 9.87867" W 9792
2282.DAT			115.8803 m

To: lou1	Iono free fixed	8/16/01 18:49:20	0000
9896.SSF			
	Slope (m):	43132.074	38°00'37.03741" N LOU1
2280.RNX	Total (m):	56469.443	085°17'55.69878" W 8208
2284.DAT			192.3127 m

To: J 334ECC	Iono free fixed	8/17/01 14:16:40	0000
9932.SSF			
	Slope (m):	56836.369	37°59'56.67054" N LOU1
2290.RNX	Total (m):	113305.812	085°56'44.80336" W 8405
2291.DAT			101.7903 m

To: H 323ECC	Iono free fixed	8/16/01 17:15:00	0000
9776.SSF			
	Slope (m):	22586.812	38°11'50.44740" N 9792
2282.DAT	Total (m):	135892.624	085°53'16.31282" W 8698
2282.DAT			98.3704 m

Closed

Precision (ppm): 0.5614  
 Errors (m) N: -0.0019 E: 0.0106 U: 0.0755  
 Closure Log

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 New Closure

From: SNOW RMA

To: 31 K ECC	Iono free fixed	8/17/01 14:28:30	0000
9852.SSF			
	Slope (m):	27188.879	37°59'17.57852" N 8698
2292.DAT	Total (m):	27188.879	085°42'53.08843" W 0498
2291.DAT			102.8086 m

To: lou1	Iono free fixed	8/17/01 14:11:00	0000
9940.SSF			
	Slope (m):	36616.458	38°00'37.03840" N LOU1
2290.RNX	Total (m):	63805.337	085°17'55.69929" W 8698
2291.DAT			192.2180 m

To: X 349	Iono free fixed	8/16/01 14:08:20	0000
9916.SSF			

2280.RNX	Slope (m):	45739.917	38°17'23.41499" N	LOU1
2282.DAT	Total (m):	109545.255	085°40'55.83446" W	8208
			98.9227 m	
To: EDWARD 2	Iono free fixed		8/16/01 14:08:20	0000
9764.SSF				
2281.DAT	Slope (m):	19628.530	38°17' 1.83219" N	0498
2282.DAT	Total (m):	129173.785	085°54'22.99908" W	8208
			246.3934 m	
To: SNOW RMA	Iono free fixed		8/17/01 16:45:50	0000
9872.SSF				
2292.DAT	Slope (m):	43725.741	37°53'50.01779" N	0498
2292.DAT	Total (m):	172899.526	086°00' 6.90123" W	8405
			240.3251 m	

Closed

Precision (ppm): 0.9168  
 Errors (m) N: 0.0383 E: -0.0381 U: 0.1490  
 Closure Log

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New Closure

From: X 349

To: GOSHENRM	Iono free fixed		8/16/01 12:30:10	0000
9752.SSF				
2280.DAT	Slope (m):	16689.749	38°24'28.74168" N	9792
2280.DAT	Total (m):	16689.749	085°33'50.76049" W	8405
			184.4535 m	
To: lou1	Iono free fixed		8/16/01 14:56:00	0000
9908.SSF				
2280.RNX	Slope (m):	49887.179	38°00'37.03681" N	LOU1
2281.DAT	Total (m):	66576.928	085°17'55.69836" W	8405
			192.1594 m	
To: BOWMANRS	Iono free fixed		8/16/01 12:16:40	0000
9924.SSF				
2280.RNX	Slope (m):	39925.606	38°13'23.97844" N	LOU1
2280.DAT	Total (m):	106502.534	085°39'56.27883" W	0498
			130.4204 m	
To: X 349	Iono free fixed		8/16/01 12:27:10	0000
9748.SSF				
2280.DAT	Slope (m):	7523.531	38°17'23.41400" N	0498
2280.DAT	Total (m):	114026.065	085°40'55.83262" W	9792
			98.7901 m	

Closed

Precision (ppm): 0.6686  
 Errors (m) N: 0.0001 E: 0.0211 U: -0.0733  
 Closure Log

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New Closure

From: SDF A

To: SDF E 9788.SSF	L1 fixed	8/16/01 17:40:30	0000
2282.DAT	Slope (m):	1085.049	38°11'16.87307" N 8405
2283.DAT	Total (m):	1085.049	085°44' 9.87830" W 8208
			115.8152 m
To: KY 05 9808.SSF	L1 fixed	8/16/01 18:49:20	0000
2283.DAT	Slope (m):	814.191	38°11'42.85027" N 0498
2284.DAT	Total (m):	1899.240	085°44'15.88126" W 8208
			115.8695 m
To: EDWARD 2 9768.SSF	Iono free fixed	8/16/01 14:05:00	0000
2281.DAT	Slope (m):	17741.077	38°17' 1.83067" N 0498
2281.DAT	Total (m):	19640.317	085°54'22.99825" W 8698
			246.2839 m
To: H 323ECC 9772.SSF	Iono free fixed	8/16/01 14:13:20	0000
2281.DAT	Slope (m):	9738.460	38°11'50.44700" N 0498
2281.DAT	Total (m):	29378.777	085°53'16.31340" W 9792
			98.2355 m
To: lou1 9912.SSF	Iono free fixed	8/16/01 14:13:20	0000
2280.RNX	Slope (m):	55682.604	38°00'37.03693" N LOU1
2281.DAT	Total (m):	85061.381	085°17'55.69845" W 9792
			192.0997 m
To: SDF A 9900.SSF	Iono free fixed	8/16/01 18:41:40	0000
2280.RNX	Slope (m):	42405.373	38°10'42.96241" N LOU1
2283.DAT	Total (m):	127466.754	085°43'57.96467" W 8405
			112.5502 m

Closed

Precision (ppm): 1.1920  
 Errors (m) N: -0.0120 E: -0.0050 U: -0.1514

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