

Phase I Minimally Constrained GPS Network Adjustment

2001 Geodetic Control Densification

of

Jefferson County, Kentucky



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

ADJUSTMENT STATISTICS SUMMARY
 NETWORK = LOJIC_PHASE
 TIME = Wed Sep 26 12:57:28 2001

ADJUSTMENT SUMMARY

Network Reference Factor = 1.00
 Chi-Square Test ($\alpha = 95\%$) = PASS
 Degrees of Freedom = 111.00

GPS OBSERVATIONS

Reference Factor = 1.00
 r = 111.00

GPS Solution	1	Reference Factor =	0.63	r =	1.72
GPS Solution	2	Reference Factor =	1.44	r =	1.97
GPS Solution	3	Reference Factor =	1.21	r =	0.86
GPS Solution	4	Reference Factor =	1.30	r =	1.12
GPS Solution	5	Reference Factor =	1.36	r =	1.66
GPS Solution	6	Reference Factor =	0.52	r =	2.16
GPS Solution	7	Reference Factor =	1.39	r =	1.89
GPS Solution	8	Reference Factor =	1.21	r =	2.26
GPS Solution	9	Reference Factor =	0.32	r =	2.72
GPS Solution	10	Reference Factor =	1.32	r =	2.79
GPS Solution	11	Reference Factor =	0.66	r =	1.76
GPS Solution	12	Reference Factor =	0.29	r =	2.72
GPS Solution	13	Reference Factor =	0.73	r =	2.85
GPS Solution	14	Reference Factor =	0.54	r =	1.72
GPS Solution	15	Reference Factor =	1.41	r =	2.62
GPS Solution	16	Reference Factor =	0.27	r =	1.40
GPS Solution	17	Reference Factor =	1.45	r =	2.18
GPS Solution	18	Reference Factor =	0.54	r =	2.79
GPS Solution	19	Reference Factor =	0.61	r =	1.71
GPS Solution	20	Reference Factor =	0.59	r =	2.19
GPS Solution	21	Reference Factor =	0.88	r =	1.83
GPS Solution	22	Reference Factor =	0.78	r =	2.33
GPS Solution	23	Reference Factor =	1.53	r =	2.53
GPS Solution	24	Reference Factor =	0.90	r =	2.21
GPS Solution	25	Reference Factor =	1.25	r =	2.43
GPS Solution	26	Reference Factor =	1.59	r =	2.56
GPS Solution	27	Reference Factor =	1.16	r =	1.90
GPS Solution	28	Reference Factor =	0.91	r =	2.43
GPS Solution	29	Reference Factor =	1.42	r =	1.89
GPS Solution	30	Reference Factor =	0.40	r =	1.93
GPS Solution	31	Reference Factor =	0.44	r =	1.94
GPS Solution	32	Reference Factor =	0.17	r =	2.74
GPS Solution	33	Reference Factor =	0.37	r =	2.80
GPS Solution	34	Reference Factor =	1.13	r =	1.38
GPS Solution	35	Reference Factor =	0.76	r =	2.67
GPS Solution	36	Reference Factor =	0.23	r =	1.60
GPS Solution	37	Reference Factor =	1.14	r =	1.72
GPS Solution	38	Reference Factor =	0.91	r =	2.53
GPS Solution	39	Reference Factor =	0.27	r =	1.64
GPS Solution	40	Reference Factor =	2.13	r =	2.42
GPS Solution	41	Reference Factor =	0.58	r =	2.12
GPS Solution	42	Reference Factor =	0.25	r =	1.72
GPS Solution	43	Reference Factor =	0.89	r =	2.39
GPS Solution	44	Reference Factor =	0.40	r =	2.21
GPS Solution	45	Reference Factor =	1.22	r =	1.95
GPS Solution	46	Reference Factor =	0.72	r =	1.34
GPS Solution	47	Reference Factor =	0.46	r =	2.02
GPS Solution	48	Reference Factor =	1.54	r =	2.57
GPS Solution	49	Reference Factor =	0.66	r =	1.64
GPS Solution	50	Reference Factor =	0.67	r =	2.02
GPS Solution	51	Reference Factor =	0.63	r =	1.23
GPS Solution	52	Reference Factor =	1.80	r =	2.46
GPS Solution	53	Reference Factor =	0.33	r =	2.76

WEIGHTING STRATEGIES:

GPS OBSERVATIONS:

Scalar Weighting Strategy:

User-Defined Scalar Set Applied Globally = 5.25

No summation weighting strategy was used

Station Error Strategy:

H.I. error = 0.0010

Tribrach error = 0.0010

COORDINATE ADJUSTMENT SUMMARY
 NETWORK = LOJIC_PHASE
 TIME = Wed Sep 26 12:57:28 2001

Datum = NAD-83
 Coordinate System = 1983 State Plane Lambert
 Zone = Kentucky North

Network Adjustment Constraints:

- 1 fixed coordinates in y
- 1 fixed coordinates in x
- 1 fixed coordinates in H

POINT	NAME	OLD COORDS	ADJUST	NEW COORDS	1.96Å
1	31 K ECC				
	Y=	55213.4350	+0.0000	55213.4350	0.009366m
	X=	371332.9393	+0.0000	371332.9393	0.007082m
	ELL HT=	102.8723	+0.0000	102.8723	0.020336m
	ORTHO HT=	0.0000	+0.0000	0.0000	NOT KNOWN
2	48978ECC				
	Y=	59655.0767	+0.0000	59655.0767	0.008415m
	X=	403901.4495	+0.0000	403901.4495	0.006135m
	ELL HT=	115.9010	+0.0000	115.9010	0.018233m
	ORTHO HT=	0.0000	+0.0000	0.0000	NOT KNOWN
3	BOWMANRS				
	Y=	81239.4228	+0.0000	81239.4228	0.009477m
	X=	376047.9447	+0.0000	376047.9447	0.006718m
	ELL HT=	130.5018	+0.0000	130.5018	0.019656m
	ORTHO HT=	0.0000	+0.0000	0.0000	NOT KNOWN
4	EDWARD 2				
	Y=	88306.8682	+0.0000	88306.8682	0.010952m
	X=	355090.4497	+0.0000	355090.4497	0.007818m
	ELL HT=	246.3281	+0.0000	246.3281	0.022448m
	ORTHO HT=	0.0000	+0.0000	0.0000	NOT KNOWN
5	GOSHENRM				
	Y=	101602.2204	+0.0000	101602.2204	0.012964m
	X=	385229.9253	+0.0000	385229.9253	0.009116m
	ELL HT=	184.4670	+0.0000	184.4670	0.027720m
	ORTHO HT=	0.0000	+0.0000	0.0000	NOT KNOWN
6	H 323ECC				
	Y=	78678.6088	+0.0000	78678.6088	0.010849m
	X=	356540.1041	+0.0000	356540.1041	0.007997m
	ELL HT=	98.2893	+0.0000	98.2893	0.024715m
	ORTHO HT=	0.0000	+0.0000	0.0000	NOT KNOWN
7	HORRODS				
	Y=	106000.5490	+0.0000	106000.5490	0.009246m
	X=	395410.3287	+0.0000	395410.3287	0.007004m
	ELL HT=	210.3511	+0.0000	210.3511	0.022834m
	ORTHO HT=	0.0000	+0.0000	0.0000	NOT KNOWN
8	I64 L 21				
	Y=	80065.0560	+0.0000	80065.0560	FIXED
	X=	399827.7670	+0.0000	399827.7670	FIXED
	ELL HT=	194.9600	+0.0000	194.9600	FIXED
	ORTHO HT=	0.0000	+0.0000	0.0000	NOT KNOWN
9	J 334ECC				
	Y=	56766.7203	+0.0000	56766.7203	0.008985m
	X=	351062.8425	+0.0000	351062.8425	0.006798m
	ELL HT=	101.7010	+0.0000	101.7010	0.019736m
	ORTHO HT=	0.0000	+0.0000	0.0000	NOT KNOWN
10	KY 05				
	Y=	78221.3020	+0.0000	78221.3020	0.007908m
	X=	369684.0683	+0.0000	369684.0683	0.005669m
	ELL HT=	115.8952	+0.0000	115.8952	0.016936m

ORTHO HT=	0.0000	+0.0000	0.0000	NOT KNOWN
11 KY 13				
Y=	44892.9560	+0.0000	44892.9560	0.007732m
X=	384288.0063	+0.0000	384288.0063	0.006083m
ELL HT=	173.9318	+0.0000	173.9318	0.015526m
ORTHO HT=	0.0000	+0.0000	0.0000	NOT KNOWN
12 lou1				
Y=	57164.6201	+0.0000	57164.6201	0.008205m
X=	407896.3112	+0.0000	407896.3112	0.005936m
ELL HT=	192.2251	+0.0000	192.2251	0.017402m
ORTHO HT=	0.0000	+0.0000	0.0000	NOT KNOWN
13 LOUSBASE				
Y=	73453.7373	+0.0000	73453.7373	0.009248m
X=	361270.4660	+0.0000	361270.4660	0.006744m
ELL HT=	110.1650	+0.0000	110.1650	0.019700m
ORTHO HT=	0.0000	+0.0000	0.0000	NOT KNOWN
14 SDF A				
Y=	76368.0288	+0.0000	76368.0288	0.008525m
X=	370090.2443	+0.0000	370090.2443	0.006259m
ELL HT=	112.7214	+0.0000	112.7214	0.018015m
ORTHO HT=	0.0000	+0.0000	0.0000	NOT KNOWN
15 SDF E				
Y=	77418.1050	+0.0000	77418.1050	0.008406m
X=	369817.1914	+0.0000	369817.1914	0.006171m
ELL HT=	115.8364	+0.0000	115.8364	0.017759m
ORTHO HT=	0.0000	+0.0000	0.0000	NOT KNOWN
16 SNOW RMA				
Y=	45556.3001	+0.0000	45556.3001	0.008788m
X=	345917.9214	+0.0000	345917.9214	0.006822m
ELL HT=	240.2302	+0.0000	240.2302	0.018068m
ORTHO HT=	0.0000	+0.0000	0.0000	NOT KNOWN
17 X 349				
Y=	88643.3732	+0.0000	88643.3732	0.013392m
X=	374714.3733	+0.0000	374714.3733	0.009161m
ELL HT=	98.8838	+0.0000	98.8838	0.026930m
ORTHO HT=	0.0000	+0.0000	0.0000	NOT KNOWN

OBSERVATION ADJUSTMENT SUMMARY
 NETWORK = LOJIC_PHASE
 TIME = Wed Sep 26 12:57:29 2001

OBSERVATION ADJUSTMENT (Tau = 3.52)

OBS#	BLK#/ REF#	TYPE	BACKSIGHT/ INSTRUMENT/ FORESIGHT	UDVC/ UDPG/ SBNT	OBSERVED/ ADJUSTED/ RESIDUAL	1.96σ/ 1.96σ/ 1.96σ	TAU
1	1	gpsaz	-*-	-*-	39003'28.2854"	0.2655"	0.00
	1		X 349	-*-	39003'28.2850"	0.1558"	
			GOSHENRM	1	-0.000460"	0.2150"	
2	1	gpsht	-*-	-*-	+85.5902m	0.0507m	0.09
	1		X 349	-*-	+85.5832m	0.0286m	
			GOSHENRM	1	-0.007010m	0.0419m	
3	1	gpsds	-*-	-*-	16688.5686m	0.0216m	0.21
	1		X 349	-*-	16688.5756m	0.0119m	
			GOSHENRM	1	+0.006957m	0.0181m	
4	2	gpsaz	-*-	-*-	301056'24.4535"	0.5692"	0.39
	1		lou1	-*-	301056'24.1099"	0.2937"	
			48978ECC	1	-0.343635"	0.4876"	
5	2	gpsht	-*-	-*-	-76.2993m	0.0275m	0.60
	1		lou1	-*-	-76.3241m	0.0150m	
			48978ECC	1	-0.024838m	0.0230m	
6	2	gpsds	-*-	-*-	4707.5786m	0.0111m	0.02
	1		lou1	-*-	4707.5783m	0.0061m	
			48978ECC	1	-0.000295m	0.0093m	
7	3	gpsaz	-*-	-*-	170035'20.7933"	1.2405"	0.42
	1		KY 05	-*-	170035'21.3379"	1.0076"	
			SDF E	1	+0.544593"	0.7236"	
8	3	gpsht	-*-	-*-	-0.0543m	0.0100m	0.51
	1		KY 05	-*-	-0.0588m	0.0087m	
			SDF E	1	-0.004483m	0.0049m	
9	3	gpsds	-*-	-*-	814.1547m	0.0056m	0.08
	1		KY 05	-*-	814.1543m	0.0047m	
			SDF E	1	-0.000405m	0.0030m	
10	4	gpsaz	-*-	-*-	270059'25.5417"	0.0517"	0.35
	1		KY 13	-*-	270059'25.5623"	0.0398"	
			SNOW RMA	1	+0.020562"	0.0330"	
11	4	gpsht	-*-	-*-	+66.2892m	0.0183m	0.47
	1		KY 13	-*-	+66.2984m	0.0147m	
			SNOW RMA	1	+0.009215m	0.0109m	
12	4	gpsds	-*-	-*-	38375.8187m	0.0077m	0.02
	1		KY 13	-*-	38375.8185m	0.0059m	
			SNOW RMA	1	-0.000189m	0.0049m	
13	5	gpsaz	-*-	-*-	266029'59.3740"	0.0854"	0.31
	1		I64 L 21	-*-	266029'59.4108"	0.0538"	
			KY 05	1	+0.036834"	0.0663"	
14	5	gpsht	-*-	-*-	-79.0540m	0.0278m	0.27
	1		I64 L 21	-*-	-79.0648m	0.0169m	
			KY 05	1	-0.010801m	0.0220m	
15	5	gpsds	-*-	-*-	30200.0282m	0.0086m	0.42
	1		I64 L 21	-*-	30200.0331m	0.0057m	
			KY 05	1	+0.004896m	0.0065m	

Observs.log

16	6	gpsaz	---	---	355054'03.1543"	0.1176"	0.01
	1	31 K ECC	---	---	355054'03.1519"	0.0587"	
		KY 05		1	-0.002361"	0.1019"	
17	6	gpsht	---	---	+13.0373m	0.0432m	0.21
	1	31 K ECC	---	---	+13.0229m	0.0189m	
		KY 05		1	-0.014347m	0.0389m	
18	6	gpsds	---	---	23066.8701m	0.0184m	0.17
	1	31 K ECC	---	---	23066.8750m	0.0087m	
		KY 05		1	+0.004865m	0.0162m	
19	7	gpsaz	---	---	246011'47.0773"	0.1279"	0.13
	1	GOSHENRM	---	---	246011'47.0549"	0.0801"	
		EDWARD 2		1	-0.022435"	0.0998"	
20	7	gpsht	---	---	+61.8959m	0.0448m	0.54
	1	GOSHENRM	---	---	+61.8612m	0.0270m	
		EDWARD 2		1	-0.034742m	0.0358m	
21	7	gpsds	---	---	32941.6879m	0.0158m	0.28
	1	GOSHENRM	---	---	32941.6815m	0.0094m	
		EDWARD 2		1	-0.006377m	0.0126m	
22	8	gpsaz	---	---	168042'45.0571"	0.1273"	0.12
	1	I64 L 21	---	---	168042'45.0333"	0.0624"	
		48978ECC		1	-0.023725"	0.1110"	
23	8	gpsht	---	---	-79.0876m	0.0411m	0.43
	1	I64 L 21	---	---	-79.0590m	0.0182m	
		48978ECC		1	+0.028603m	0.0368m	
24	8	gpsds	---	---	20812.5382m	0.0183m	0.33
	1	I64 L 21	---	---	20812.5478m	0.0083m	
		48978ECC		1	+0.009588m	0.0163m	
25	9	gpsaz	---	---	94022'55.1295"	0.3646"	0.02
	1	J 334ECC	---	---	94022'55.1187"	0.0807"	
		31 K ECC		1	-0.010754"	0.3555"	
26	9	gpsht	---	---	+1.1646m	0.0673m	0.06
	1	J 334ECC	---	---	+1.1713m	0.0178m	
		31 K ECC		1	+0.006707m	0.0649m	
27	9	gpsds	---	---	20329.5188m	0.0205m	0.13
	1	J 334ECC	---	---	20329.5234m	0.0063m	
		31 K ECC		1	+0.004592m	0.0195m	
28	10	gpsaz	---	---	266056'43.0821"	0.2393"	0.32
	1	lou1	---	---	266056'43.2176"	0.0496"	
		31 K ECC		1	+0.135448"	0.2341"	
29	10	gpsht	---	---	-89.4097m	0.0768m	0.43
	1	lou1	---	---	-89.3528m	0.0188m	
		31 K ECC		1	+0.056814m	0.0745m	
30	10	gpsds	---	---	36615.3778m	0.0239m	0.46
	1	lou1	---	---	36615.3969m	0.0067m	
		31 K ECC		1	+0.019032m	0.0229m	
31	11	gpsaz	---	---	171026'15.8813"	0.2573"	0.26
	1	EDWARD 2	---	---	171026'15.7897"	0.1638"	
		H 323ECC		1	-0.091609"	0.1985"	
32	11	gpsht	---	---	-148.0483m	0.0355m	0.20
	1	EDWARD 2	---	---	-148.0388m	0.0229m	
		H 323ECC		1	+0.009504m	0.0271m	
33	11	gpsds	---	---	9736.7794m	0.0176m	0.01
	1	EDWARD 2	---	---	9736.7796m	0.0108m	
		H 323ECC		1	+0.000240m	0.0139m	
34	12	gpsaz	---	---	259023'29.8642"	0.1063"	0.12
	1	lou1	---	---	259023'29.8417"	0.0277"	
		SNOW RMA		1	-0.022507"	0.1026"	

Observs.log

35	12	gpsht	1	***-	***-	+48.0169m	0.0651m	0.10
				lou1	***-	+48.0051m	0.0176m	
				SNOW RMA	1	-0.011770m	0.0627m	
36	12	gpsds	1	***-	***-	63056.1158m	0.0201m	0.04
				lou1	***-	63056.1171m	0.0065m	
				SNOW RMA	1	+0.001316m	0.0190m	
37	13	gpsaz	1	***-	***-	69011'39.7744"	0.4384"	0.21
				SNOW RMA	***-	69011'39.6089"	0.0581"	
				31 K ECC	1	-0.165507"	0.4346"	
38	13	gpsht	1	***-	***-	-137.4073m	0.1188m	0.23
				SNOW RMA	***-	-137.3580m	0.0171m	
				31 K ECC	1	+0.049300m	0.1176m	
39	13	gpsds	1	***-	***-	27187.9104m	0.0298m	0.32
				SNOW RMA	***-	27187.9273m	0.0065m	
				31 K ECC	1	+0.016894m	0.0291m	
40	14	gpsaz	1	***-	***-	349047'22.5959"	0.3543"	0.24
				BOWMANRS	***-	349047'22.4795"	0.2268"	
				X 349	1	-0.116410"	0.2722"	
41	14	gpsht	1	***-	***-	-31.6303m	0.0459m	0.18
				BOWMANRS	***-	-31.6180m	0.0248m	
				X 349	1	+0.012240m	0.0386m	
42	14	gpsds	1	***-	***-	7523.0951m	0.0242m	0.12
				BOWMANRS	***-	7523.0907m	0.0130m	
				X 349	1	-0.004387m	0.0204m	
43	15	gpsaz	1	***-	***-	289015'26.1792"	0.1021"	0.08
				lou1	***-	289015'26.1925"	0.0336"	
				LOUSBASE	1	+0.013263"	0.0965"	
44	15	gpsht	1	***-	***-	-82.1114m	0.0456m	0.67
				lou1	***-	-82.0601m	0.0167m	
				LOUSBASE	1	+0.051223m	0.0424m	
45	15	gpsds	1	***-	***-	49389.3296m	0.0178m	0.37
				lou1	***-	49389.3184m	0.0061m	
				LOUSBASE	1	-0.011195m	0.0168m	
46	16	gpsaz	1	***-	***-	204039'08.3934"	0.1413"	0.05
				J 334ECC	***-	204039'08.3852"	0.1011"	
				SNOW RMA	1	-0.008154"	0.0987"	
47	16	gpsht	1	***-	***-	+138.5275m	0.0216m	0.07
				J 334ECC	***-	+138.5293m	0.0157m	
				SNOW RMA	1	+0.001791m	0.0148m	
48	16	gpsds	1	***-	***-	12334.6544m	0.0093m	0.12
				J 334ECC	***-	12334.6558m	0.0069m	
				SNOW RMA	1	+0.001377m	0.0062m	
49	17	gpsaz	1	***-	***-	301056'24.0964"	0.6532"	0.01
				lou1	***-	301056'24.1099"	0.2937"	
				48978ECC	1	+0.013480"	0.5835"	
50	17	gpsht	1	***-	***-	-76.3125m	0.0343m	0.21
				lou1	***-	-76.3241m	0.0150m	
				48978ECC	1	-0.011660m	0.0308m	
51	17	gpsds	1	***-	***-	4707.5673m	0.0119m	0.60
				lou1	***-	4707.5783m	0.0061m	
				48978ECC	1	+0.011008m	0.0102m	
52	18	gpsaz	1	***-	***-	307005'10.9272"	0.1825"	0.24
				lou1	***-	307005'10.8496"	0.0413"	
				BOWMANRS	1	-0.077630"	0.1777"	
53	18	gpsht	1	***-	***-	-61.7390m	0.0862m	0.10
				lou1	***-	-61.7233m	0.0171m	

Observs.log

			BOWMANRS	1	+0.015712m	0.0845m	
54	18	gpsds	-*-	-*-	39923.8637m	0.0317m	0.07
	1		lou1	-*-	39923.8597m	0.0073m	
			BOWMANRS	1	-0.003955m	0.0308m	
55	19	gpsaz	-*-	-*-	350020'02.0762"	0.0988"	0.01
	1		I64 L 21	-*-	350020'02.0772"	0.0574"	
			HORRODS	1	+0.000977"	0.0804"	
56	19	gpsht	-*-	-*-	+15.3803m	0.0429m	0.17
	1		I64 L 21	-*-	+15.3911m	0.0228m	
			HORRODS	1	+0.010796m	0.0364m	
57	19	gpsds	-*-	-*-	26309.0003m	0.0130m	0.07
	1		I64 L 21	-*-	26309.0015m	0.0090m	
			HORRODS	1	+0.001197m	0.0094m	
58	20	gpsaz	-*-	-*-	94022'55.1333"	0.1521"	0.06
	1		J 334ECC	-*-	94022'55.1187"	0.0807"	
			31 K ECC	1	-0.014550"	0.1289"	
59	20	gpsht	-*-	-*-	+1.1641m	0.0363m	0.13
	1		J 334ECC	-*-	+1.1713m	0.0178m	
			31 K ECC	1	+0.007184m	0.0316m	
60	20	gpsds	-*-	-*-	20329.5186m	0.0130m	0.24
	1		J 334ECC	-*-	20329.5234m	0.0063m	
			31 K ECC	1	+0.004842m	0.0114m	
61	21	gpsaz	-*-	-*-	124038'53.2265"	0.1681"	0.15
	1		EDWARD 2	-*-	124038'53.2631"	0.1004"	
			KY 05	1	+0.036641"	0.1348"	
62	21	gpsht	-*-	-*-	-130.4143m	0.0314m	0.42
	1		EDWARD 2	-*-	-130.4329m	0.0192m	
			KY 05	1	-0.018613m	0.0248m	
63	21	gpsds	-*-	-*-	17739.5682m	0.0129m	0.11
	1		EDWARD 2	-*-	17739.5702m	0.0081m	
			KY 05	1	+0.002003m	0.0100m	
64	22	gpsaz	-*-	-*-	272049'38.1515"	0.2119"	0.09
	1		I64 L 21	-*-	272049'38.1212"	0.0821"	
			BOWMANRS	1	-0.030306"	0.1953"	
65	22	gpsht	-*-	-*-	-64.4563m	0.0539m	0.02
	1		I64 L 21	-*-	-64.4582m	0.0197m	
			BOWMANRS	1	-0.001914m	0.0502m	
66	22	gpsds	-*-	-*-	23808.7963m	0.0142m	0.29
	1		I64 L 21	-*-	23808.8027m	0.0067m	
			BOWMANRS	1	+0.006428m	0.0125m	
67	23	gpsaz	-*-	-*-	298000'27.2563"	0.0892"	0.08
	1		lou1	-*-	298000'27.2680"	0.0338"	
			SDF E	1	+0.011750"	0.0826"	
68	23	gpsht	-*-	-*-	-76.4326m	0.0368m	0.73
	1		lou1	-*-	-76.3887m	0.0147m	
			SDF E	1	+0.043901m	0.0337m	
69	23	gpsds	-*-	-*-	43130.3130m	0.0150m	0.41
	1		lou1	-*-	43130.3028m	0.0058m	
			SDF E	1	-0.010237m	0.0138m	
70	24	gpsaz	-*-	-*-	308032'31.5640"	0.2290"	0.05
	1		KY 13	-*-	308032'31.5811"	0.1008"	
			31 K ECC	1	+0.017147"	0.2057"	
71	24	gpsht	-*-	-*-	-71.0387m	0.0450m	0.28
	1		KY 13	-*-	-71.0595m	0.0189m	
			31 K ECC	1	-0.020785m	0.0408m	
72	24	gpsds	-*-	-*-	16563.3894m	0.0145m	0.24

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	1		KY 13	***-	16563.3948m	0.0075m	
		31	K ECC	1	+0.005376m	0.0124m	
73	25	gpsaz		***-	313029'28.1349"	0.1053"	0.21
	1		lou1	***-	313029'28.1699"	0.0460"	
			X 349	1	+0.034984"	0.0948"	
74	25	gpsht		***-	-93.2957m	0.0609m	0.46
	1		lou1	***-	-93.3413m	0.0249m	
			X 349	1	-0.045638m	0.0556m	
75	25	gpsds		***-	45737.8821m	0.0266m	0.24
	1		lou1	***-	45737.8716m	0.0115m	
			X 349	1	-0.010452m	0.0240m	
76	26	gpsaz		***-	307005'10.7751"	0.1204"	0.37
	1		lou1	***-	307005'10.8496"	0.0413"	
			BOWMANRS	1	+0.074527"	0.1131"	
77	26	gpsht		***-	-61.7752m	0.0440m	0.71
	1		lou1	***-	-61.7233m	0.0171m	
			BOWMANRS	1	+0.051955m	0.0405m	
78	26	gpsds		***-	39923.8658m	0.0180m	0.21
	1		lou1	***-	39923.8597m	0.0073m	
			BOWMANRS	1	-0.006094m	0.0165m	
79	27	gpsaz		***-	349037'04.0526"	0.0604"	0.52
	1		48978ECC	***-	349037'04.0062"	0.0347"	
			HORRODS	1	-0.046343"	0.0495"	
80	27	gpsht		***-	+94.4619m	0.0372m	0.23
	1		48978ECC	***-	+94.4501m	0.0233m	
			HORRODS	1	-0.011751m	0.0290m	
81	27	gpsds		***-	47116.8956m	0.0164m	0.04
	1		48978ECC	***-	47116.8965m	0.0101m	
			HORRODS	1	+0.000936m	0.0129m	
82	28	gpsaz		***-	350020'02.0193"	0.1344"	0.27
	1		I64 L 21	***-	350020'02.0772"	0.0574"	
			HORRODS	1	+0.057910"	0.1215"	
83	28	gpsht		***-	+15.4282m	0.0539m	0.42
	1		I64 L 21	***-	+15.3911m	0.0228m	
			HORRODS	1	-0.037032m	0.0488m	
84	28	gpsds		***-	26308.9955m	0.0237m	0.15
	1		I64 L 21	***-	26309.0015m	0.0090m	
			HORRODS	1	+0.006008m	0.0219m	
85	29	gpsaz		***-	275025'23.9810"	0.2412"	0.21
	1		SDF E	***-	275025'23.9076"	0.1412"	
			H 323ECC	1	-0.073395"	0.1956"	
86	29	gpsht		***-	-17.5855m	0.0434m	0.57
	1		SDF E	***-	-17.5472m	0.0217m	
			H 323ECC	1	+0.038308m	0.0375m	
87	29	gpsds		***-	13336.7825m	0.0105m	0.38
	1		SDF E	***-	13336.7880m	0.0067m	
			H 323ECC	1	+0.005548m	0.0081m	
88	30	gpsaz		***-	71042'54.1836"	0.2189"	0.08
	1		LOUSBASE	***-	71042'54.2097"	0.1316"	
			SDF A	1	+0.026133"	0.1749"	
89	30	gpsht		***-	+2.5599m	0.0270m	0.08
	1		LOUSBASE	***-	+2.5564m	0.0129m	
			SDF A	1	-0.003428m	0.0237m	
90	30	gpsds		***-	9288.7890m	0.0075m	0.09
	1		LOUSBASE	***-	9288.7881m	0.0047m	
			SDF A	1	-0.000974m	0.0058m	

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91	31	gpsaz	1	***- BOWMANRS KY 05	***- ***- 1	244037'37.1626" 244037'37.0825" -0.080106"	0.3414" 0.2092" 0.2698"	0.17
92	31	gpsht	1	***- BOWMANRS KY 05	***- ***- 1	-14.6130m -14.6066m +0.006377m	0.0244m 0.0143m 0.0198m	0.18
93	31	gpsds	1	***- BOWMANRS KY 05	***- ***- 1	7043.2930m 7043.2930m -0.000026m	0.0111m 0.0061m 0.0093m	0.00
94	32	gpsaz	1	***- lou1 J 334ECC	***- ***- 1	269035'55.9394" 269035'55.9320" -0.007438"	0.1164" 0.0286" 0.1128"	0.04
95	32	gpsht	1	***- lou1 J 334ECC	***- ***- 1	-90.5226m -90.5241m -0.001499m	0.0629m 0.0172m 0.0605m	0.01
96	32	gpsds	1	***- lou1 J 334ECC	***- ***- 1	56834.8593m 56834.8616m +0.002360m	0.0195m 0.0059m 0.0186m	0.07
97	33	gpsaz	1	***- lou1 I64 L 21	***- ***- 1	340035'27.7722" 340035'27.7267" -0.045495"	0.2281" 0.0537" 0.2217"	0.11
98	33	gpsht	1	***- lou1 I64 L 21	***- ***- 1	+2.7396m +2.7349m -0.004732m	0.0807m 0.0174m 0.0788m	0.03
99	33	gpsds	1	***- lou1 I64 L 21	***- ***- 1	24280.2683m 24280.2671m -0.001266m	0.0334m 0.0079m 0.0325m	0.02
100	34	gpsaz	1	***- J 334ECC LOUSBASE	***- ***- 1	31027'16.4260" 31027'16.4286" +0.002680"	0.0854" 0.0637" 0.0569"	0.03
101	34	gpsht	1	***- J 334ECC LOUSBASE	***- ***- 1	+8.4810m +8.4640m -0.017030m	0.0253m 0.0173m 0.0185m	0.51
102	34	gpsds	1	***- J 334ECC LOUSBASE	***- ***- 1	19561.4923m 19561.4957m +0.003440m	0.0098m 0.0071m 0.0067m	0.29
103	35	gpsaz	1	***- lou1 I64 L 21	***- ***- 1	340035'27.7625" 340035'27.7267" -0.035804"	0.1710" 0.0537" 0.1623"	0.12
104	35	gpsht	1	***- lou1 I64 L 21	***- ***- 1	+2.7124m +2.7349m +0.022538m	0.0606m 0.0174m 0.0580m	0.22
105	35	gpsds	1	***- lou1 I64 L 21	***- ***- 1	24280.2608m 24280.2671m +0.006300m	0.0257m 0.0079m 0.0244m	0.14
106	36	gpsaz	1	***- SDF A SDF E	***- ***- 1	345025'26.7643" 345025'26.7248" -0.039492"	0.7047" 0.4964" 0.5002"	0.04
107	36	gpsht	1	***- SDF A SDF E	***- ***- 1	+3.1137m +3.1150m +0.001347m	0.0101m 0.0061m 0.0080m	0.09
108	36	gpsds	1	***- SDF A SDF E	***- ***- 1	1084.9967m 1084.9967m +0.000025m	0.0045m 0.0031m 0.0033m	0.00
109	37	gpsaz	1	***- EDWARD 2 X 349	***- ***- 1	89001'03.4613" 89001'03.3810" -0.080319"	0.2020" 0.1320" 0.1529"	0.29

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110	37	gpsht	1	***- EDWARD 2 X 349	***- ***- 1	-147.4705m -147.4443m +0.026163m	0.0396m 0.0248m 0.0308m	0.47
111	37	gpsds	1	***- EDWARD 2 X 349	***- ***- 1	19626.8061m 19626.8085m +0.002464m	0.0131m 0.0085m 0.0100m	0.14
112	38	gpsaz	1	***- lou1 J 334ECC	***- ***- 1	269035'55.9255" 269035'55.9320" +0.006467"	0.0743" 0.0286" 0.0686"	0.05
113	38	gpsht	1	***- lou1 J 334ECC	***- ***- 1	-90.4903m -90.5241m -0.033836m	0.0506m 0.0172m 0.0476m	0.40
114	38	gpsds	1	***- lou1 J 334ECC	***- ***- 1	56834.8686m 56834.8616m -0.007025m	0.0147m 0.0059m 0.0135m	0.29
115	39	gpsaz	1	***- BOWMANRS SDF A	***- ***- 1	230043'42.1654" 230043'42.1937" +0.028265"	0.2547" 0.1777" 0.1825"	0.09
116	39	gpsht	1	***- BOWMANRS SDF A	***- ***- 1	-17.7796m -17.7804m -0.000829m	0.0210m 0.0142m 0.0154m	0.03
117	39	gpsds	1	***- BOWMANRS SDF A	***- ***- 1	7695.7558m 7695.7568m +0.001062m	0.0104m 0.0066m 0.0081m	0.07
118	40	gpsaz	1	***- lou1 H 323ECC	***- ***- 1	292043'46.7029" 292043'46.7002" -0.002648"	0.0823" 0.0347" 0.0746"	0.02
119	40	gpsht	1	***- lou1 H 323ECC	***- ***- 1	-93.8643m -93.9358m -0.071570m	0.0483m 0.0220m 0.0430m	0.93
120	40	gpsds	1	***- lou1 H 323ECC	***- ***- 1	55680.4586m 55680.4428m -0.015773m	0.0186m 0.0077m 0.0169m	0.52
121	41	gpsaz	1	***- KY 05 LOUSBASE	***- ***- 1	240027'43.0433" 240027'43.0424" -0.000869"	0.2509" 0.1351" 0.2114"	0.00
122	41	gpsht	1	***- KY 05 LOUSBASE	***- ***- 1	-5.7248m -5.7302m -0.005451m	0.0245m 0.0137m 0.0204m	0.15
123	41	gpsds	1	***- KY 05 LOUSBASE	***- ***- 1	9670.4853m 9670.4899m +0.004644m	0.0118m 0.0057m 0.0103m	0.25
124	42	gpsaz	1	***- SDF E SDF A	***- ***- 1	165025'26.6238" 165025'26.7248" +0.100944"	0.8301" 0.4964" 0.6653"	0.08
125	42	gpsht	1	***- SDF E SDF A	***- ***- 1	-3.1139m -3.1150m -0.001111m	0.0087m 0.0061m 0.0061m	0.10
126	42	gpsds	1	***- SDF E SDF A	***- ***- 1	1084.9969m 1084.9967m -0.000184m	0.0049m 0.0031m 0.0038m	0.03
127	43	gpsaz	1	***- 48978ECC 31 K ECC	***- ***- 1	262014'02.4170" 262014'02.4103" -0.006716"	0.1232" 0.0566" 0.1094"	0.03
128	43	gpsht	1	***- 48978ECC	***- ***- 1	-13.0014m -13.0287m	0.0461m 0.0195m	0.36

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			31 K ECC	1	-0.027281m	0.0417m	
129	43	gpsds	-*-	-*-	32869.9832m	0.0165m	0.14
	1		48978ECC	-*-	32869.9869m	0.0069m	
			31 K ECC	1	+0.003651m	0.0150m	
130	44	gpsaz	-*-	-*-	251042'54.2714"	0.2636"	0.15
	1		SDF A	-*-	251042'54.2097"	0.1316"	
			LOUSBASE	1	-0.061669"	0.2284"	
131	44	gpsht	-*-	-*-	-2.5554m	0.0235m	0.03
	1		SDF A	-*-	-2.5564m	0.0129m	
			LOUSBASE	1	-0.001054m	0.0196m	
132	44	gpsds	-*-	-*-	9288.7856m	0.0106m	0.15
	1		SDF A	-*-	9288.7881m	0.0047m	
			LOUSBASE	1	+0.002510m	0.0095m	
133	45	gpsaz	-*-	-*-	12006'35.0847"	0.0702"	0.24
	1		SNOW RMA	-*-	12006'35.0593"	0.0373"	
			EDWARD 2	1	-0.025454"	0.0595"	
134	45	gpsht	-*-	-*-	+6.0681m	0.0362m	0.56
	1		SNOW RMA	-*-	+6.0979m	0.0208m	
			EDWARD 2	1	+0.029804m	0.0296m	
135	45	gpsds	-*-	-*-	43723.5176m	0.0179m	0.15
	1		SNOW RMA	-*-	43723.5216m	0.0103m	
			EDWARD 2	1	+0.004062m	0.0147m	
136	46	gpsaz	-*-	-*-	203050'12.5993"	0.0478"	0.05
	1		I64 L 21	-*-	203050'12.5964"	0.0341"	
			KY 13	1	-0.002936"	0.0335"	
137	46	gpsht	-*-	-*-	-21.0337m	0.0200m	0.24
	1		I64 L 21	-*-	-21.0282m	0.0155m	
			KY 13	1	+0.005486m	0.0127m	
138	46	gpsds	-*-	-*-	38452.0604m	0.0103m	0.17
	1		I64 L 21	-*-	38452.0582m	0.0075m	
			KY 13	1	-0.002176m	0.0071m	
139	47	gpsaz	-*-	-*-	249011'39.5927"	0.1024"	0.11
	1		31 K ECC	-*-	249011'39.6089"	0.0581"	
			SNOW RMA	1	+0.016253"	0.0844"	
140	47	gpsht	-*-	-*-	+137.3674m	0.0319m	0.20
	1		31 K ECC	-*-	+137.3580m	0.0171m	
			SNOW RMA	1	-0.009490m	0.0269m	
141	47	gpsds	-*-	-*-	27187.9255m	0.0118m	0.10
	1		31 K ECC	-*-	27187.9273m	0.0065m	
			SNOW RMA	1	+0.001757m	0.0098m	
142	48	gpsaz	-*-	-*-	332058'30.4505"	0.1084"	0.18
	1		lou1	-*-	332058'30.4831"	0.0398"	
			GOSHENRM	1	+0.032618"	0.1009"	
143	48	gpsht	-*-	-*-	-7.7058m	0.0721m	0.44
	1		lou1	-*-	-7.7581m	0.0267m	
			GOSHENRM	1	-0.052339m	0.0670m	
144	48	gpsds	-*-	-*-	49884.5405m	0.0319m	0.38
	1		lou1	-*-	49884.5203m	0.0125m	
			GOSHENRM	1	-0.020176m	0.0293m	
145	49	gpsaz	-*-	-*-	194002'04.2121"	0.0934"	0.24
	1		H 323ECC	-*-	194002'04.1821"	0.0637"	
			J 334ECC	1	-0.030007"	0.0683"	
146	49	gpsht	-*-	-*-	+3.4199m	0.0350m	0.17
	1		H 323ECC	-*-	+3.4117m	0.0219m	
			J 334ECC	1	-0.008221m	0.0273m	
147	49	gpsds	-*-	-*-	22586.0889m	0.0139m	0.19

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	1	H 323ECC	***-	22586.0854m	0.0091m	
		J 334ECC	1	-0.003535m	0.0105m	
148	50 gpsaz	***-	***-	233001'58.5146"	0.1220"	0.29
	1	48978ECC	***-	233001'58.5673"	0.0668"	
		KY 13	1	+0.052770"	0.1021"	
149	50 gpsht	***-	***-	+58.0345m	0.0393m	0.06
	1	48978ECC	***-	+58.0308m	0.0186m	
		KY 13	1	-0.003700m	0.0346m	
150	50 gpsds	***-	***-	24548.0620m	0.0149m	0.01
	1	48978ECC	***-	24548.0623m	0.0075m	
		KY 13	1	+0.000301m	0.0129m	
151	51 gpsaz	***-	***-	66038'01.5544"	0.2988"	0.20
	1	GOSHENRM	***-	66038'01.6266"	0.2240"	
		HORRODS	1	+0.072245"	0.1977"	
152	51 gpsht	***-	***-	+25.8749m	0.0380m	0.19
	1	GOSHENRM	***-	+25.8842m	0.0273m	
		HORRODS	1	+0.009254m	0.0265m	
153	51 gpsds	***-	***-	11089.9010m	0.0136m	0.01
	1	GOSHENRM	***-	11089.9012m	0.0097m	
		HORRODS	1	+0.000195m	0.0095m	
154	52 gpsaz	***-	***-	296055'41.0251"	0.0851"	0.24
	1	lou1	***-	296055'41.0587"	0.0347"	
		SDF A	1	+0.033561"	0.0777"	
155	52 gpsht	***-	***-	-79.5496m	0.0351m	0.80
	1	lou1	***-	-79.5037m	0.0148m	
		SDF A	1	+0.045929m	0.0318m	
156	52 gpsds	***-	***-	42403.6620m	0.0141m	0.49
	1	lou1	***-	42403.6508m	0.0058m	
		SDF A	1	-0.011265m	0.0128m	
157	53 gpsaz	***-	***-	262014'02.3471"	0.2630"	0.14
	1	48978ECC	***-	262014'02.4103"	0.0566"	
		31 K ECC	1	+0.063171"	0.2568"	
158	53 gpsht	***-	***-	-13.0296m	0.0768m	0.01
	1	48978ECC	***-	-13.0287m	0.0195m	
		31 K ECC	1	+0.000897m	0.0743m	
159	53 gpsds	***-	***-	32869.9855m	0.0239m	0.03
	1	48978ECC	***-	32869.9869m	0.0069m	
		31 K ECC	1	+0.001426m	0.0229m	

SUMMARY OF COVARIANCES
 NETWORK = LOJIC_PHASE
 TIME = Wed Sep 26 12:57:29 2001

Definition of precision $(E \times S)\hat{y} = C\hat{y} + P\hat{y}$:

Horizontal:

Precision (P) expressed as: ratio
 Propagated linear error (E): U.S.
 (standard error of adjusted horizontal distance
 Scalar (S) on propagated linear error: 1.0000
 Constant error term (C): 0.0000

3-Dimensional:

Precision (P) expressed as: ratio
 Propagated linear error (E): U.S.
 (standard error of adjusted slope distance)
 Scalar (S) on propagated linear error: 1.0000
 Constant error term (C): 0.0000
 Using orthometric height errors

FROM/ TO	AZIMUTH/ DELTA H	1.96 $\hat{\sigma}$ 1.96 $\hat{\sigma}$	DISTANCE/ DELTA h	1.96 $\hat{\sigma}$ 1.96 $\hat{\sigma}$	HOR PREC/ 3-D PREC
31 K ECC 48978ECC	82 \emptyset 14'02" +13.0287m	0.06" 0.0195m	32869.987m -***	0.0069m -***	1: 9312910 1: 9312910
31 K ECC J 334ECC	274 \emptyset 22'55" -1.1713m	0.08" 0.0178m	20329.523m -***	0.0063m -***	1: 6302713 1: 6302713
31 K ECC KY 05	355 \emptyset 54'03" +13.0229m	0.06" 0.0189m	23066.875m -***	0.0087m -***	1: 5190285 1: 5190285
31 K ECC KY 13	128 \emptyset 32'32" +71.0595m	0.10" 0.0189m	16563.395m -***	0.0075m -***	1: 4344983 1: 4344983
31 K ECC lou1	86 \emptyset 56'43" +89.3528m	0.05" 0.0188m	36615.397m -***	0.0067m -***	1:10785779 1:10785779
31 K ECC SNOW RMA	249 \emptyset 11'40" +137.3580m	0.06" 0.0171m	27187.927m -***	0.0065m -***	1: 8218642 1: 8218642
48978ECC HORRODS	349 \emptyset 37'04" +94.4501m	0.03" 0.0233m	47116.897m -***	0.0101m -***	1: 9120710 1: 9120710
48978ECC I64 L 21	348 \emptyset 42'45" +79.0590m	0.06" 0.0182m	20812.548m -***	0.0083m -***	1: 4916895 1: 4916895
48978ECC KY 13	233 \emptyset 01'59" +58.0308m	0.07" 0.0186m	24548.062m -***	0.0075m -***	1: 6420573 1: 6420573
48978ECC lou1	121 \emptyset 56'24" +76.3241m	0.29" 0.0150m	4707.578m -***	0.0061m -***	1: 1518716 1: 1518716
BOWMANRS I64 L 21	92 \emptyset 49'38" +64.4582m	0.08" 0.0197m	23808.803m -***	0.0067m -***	1: 6952089 1: 6952089
BOWMANRS KY 05	244 \emptyset 37'37" -14.6066m	0.21" 0.0143m	7043.293m -***	0.0061m -***	1: 2274633 1: 2274633
BOWMANRS lou1	127 \emptyset 05'11" +61.7233m	0.04" 0.0171m	39923.860m -***	0.0073m -***	1:10721296 1:10721296
BOWMANRS SDF A	230 \emptyset 43'42" -17.7804m	0.18" 0.0142m	7695.757m -***	0.0066m -***	1: 2281171 1: 2281171
BOWMANRS X 349	349 \emptyset 47'22" -31.6180m	0.23" 0.0248m	7523.091m -***	0.0130m -***	1: 1130777 1: 1130777
EDWARD 2 GOSHENRM	66 \emptyset 11'47" -61.8612m	0.08" 0.0270m	32941.682m -***	0.0094m -***	1: 6853491 1: 6853491
EDWARD 2 H 323ECC	171 \emptyset 26'16" -148.0388m	0.16" 0.0229m	9736.780m -***	0.0108m -***	1: 1765423 1: 1765423
EDWARD 2	124 \emptyset 38'53"	0.10"	17739.570m	0.0081m	1: 4311964

Covar.log

KY 05	-130.4329m	0.0192m	-***	-***	1: 4311964
EDWARD 2 SNOW RMA	192006'35" -6.0979m	0.04" 0.0208m	43723.522m -***	0.0103m -***	1: 8345310 1: 8345310
EDWARD 2 X 349	89001'03" -147.4443m	0.13" 0.0248m	19626.809m -***	0.0085m -***	1: 4500481 1: 4500481
GOSHENRM HORRODS	66038'02" +25.8842m	0.22" 0.0273m	11089.901m -***	0.0097m -***	1: 2243860 1: 2243860
GOSHENRM lou1	152058'30" +7.7581m	0.04" 0.0267m	49884.520m -***	0.0125m -***	1: 7841948 1: 7841948
GOSHENRM X 349	219003'28" -85.5832m	0.16" 0.0286m	16688.576m -***	0.0119m -***	1: 2741027 1: 2741027
H 323ECC J 334ECC	194002'04" +3.4117m	0.06" 0.0219m	22586.085m -***	0.0091m -***	1: 4873308 1: 4873308
H 323ECC lou1	112043'47" +93.9358m	0.03" 0.0220m	55680.443m -***	0.0077m -***	1:14172728 1:14172728
H 323ECC SDF E	95025'24" +17.5472m	0.14" 0.0217m	13336.788m -***	0.0067m -***	1: 3874845 1: 3874845
HORRODS I64 L 21	170020'02" -15.3911m	0.06" 0.0228m	26309.001m -***	0.0090m -***	1: 5734181 1: 5734181
I64 L 21 KY 05	266029'59" -79.0648m	0.05" 0.0169m	30200.033m -***	0.0057m -***	1:10369086 1:10369086
I64 L 21 KY 13	203050'13" -21.0282m	0.03" 0.0155m	38452.058m -***	0.0075m -***	1:10039891 1:10039891
I64 L 21 lou1	160035'28" -2.7349m	0.05" 0.0174m	24280.267m -***	0.0079m -***	1: 6015685 1: 6015685
J 334ECC lou1	89035'56" +90.5241m	0.03" 0.0172m	56834.862m -***	0.0059m -***	1:18989050 1:18989050
J 334ECC LOUSBASE	31027'16" +8.4640m	0.06" 0.0173m	19561.496m -***	0.0071m -***	1: 5392521 1: 5392521
J 334ECC SNOW RMA	204039'08" +138.5293m	0.10" 0.0157m	12334.656m -***	0.0069m -***	1: 3498431 1: 3498431
KY 05 LOUSBASE	240027'43" -5.7302m	0.14" 0.0137m	9670.490m -***	0.0057m -***	1: 3302187 1: 3302187
KY 05 SDF E	170035'21" -0.0588m	1.01" 0.0087m	814.154m -***	0.0047m -***	1: 336210 1: 336210
KY 13 SNOW RMA	270059'26" +66.2984m	0.04" 0.0147m	38375.819m -***	0.0059m -***	1:12792313 1:12792313
lou1 LOUSBASE	289015'26" -82.0601m	0.03" 0.0167m	49389.318m -***	0.0061m -***	1:15820207 1:15820207
lou1 SDF A	296055'41" -79.5037m	0.03" 0.0148m	42403.651m -***	0.0058m -***	1:14268936 1:14268936
lou1 SDF E	298000'27" -76.3887m	0.03" 0.0147m	43130.303m -***	0.0058m -***	1:14466989 1:14466989
lou1 SNOW RMA	259023'30" +48.0051m	0.03" 0.0176m	63056.117m -***	0.0065m -***	1:18976764 1:18976764
lou1 X 349	313029'28" -93.3413m	0.05" 0.0249m	45737.872m -***	0.0115m -***	1: 7773580 1: 7773580
LOUSBASE SDF A	71042'54" +2.5564m	0.13" 0.0129m	9288.788m -***	0.0047m -***	1: 3893828 1: 3893828
SDF A	345025'27"	0.50"	1084.997m	0.0031m	1: 678127

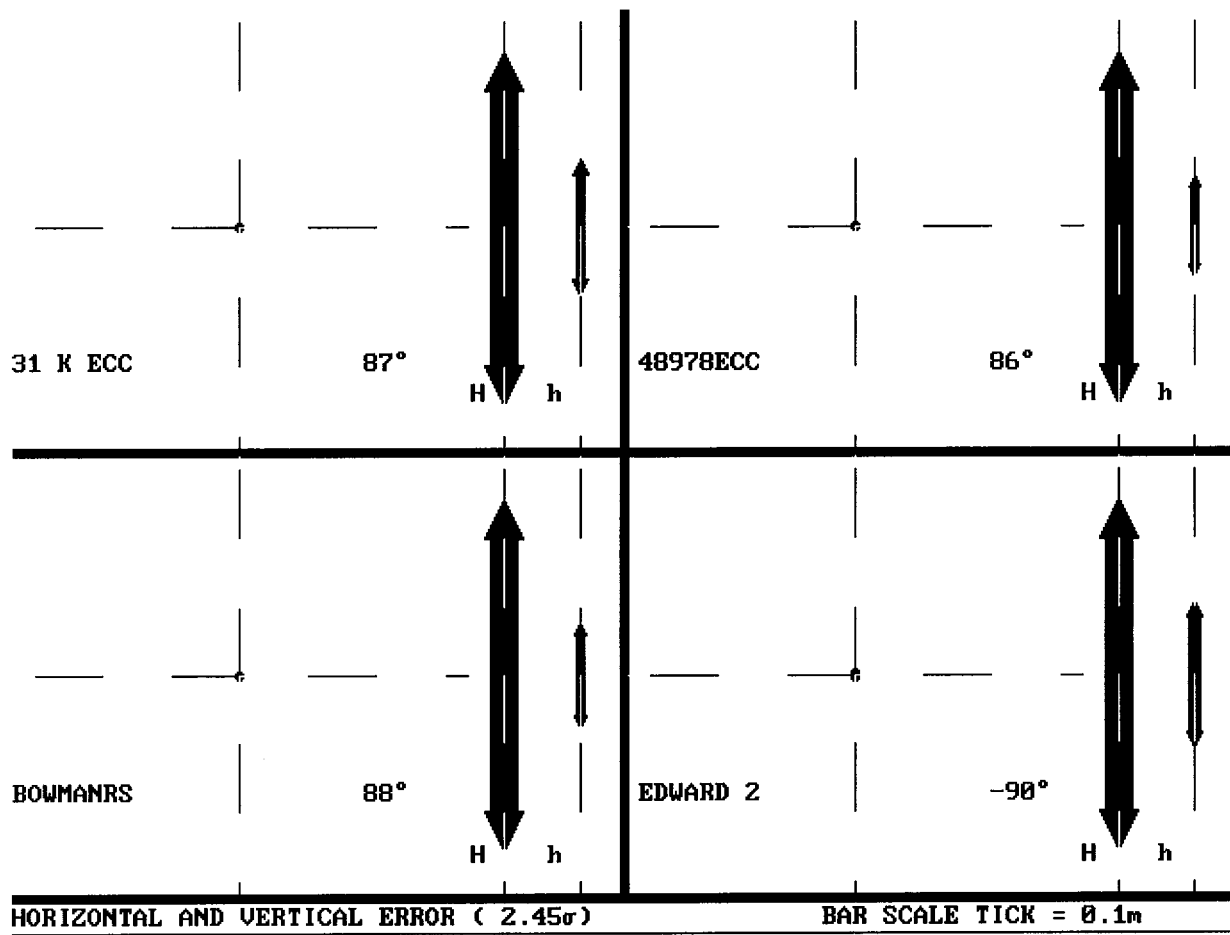
SDF E

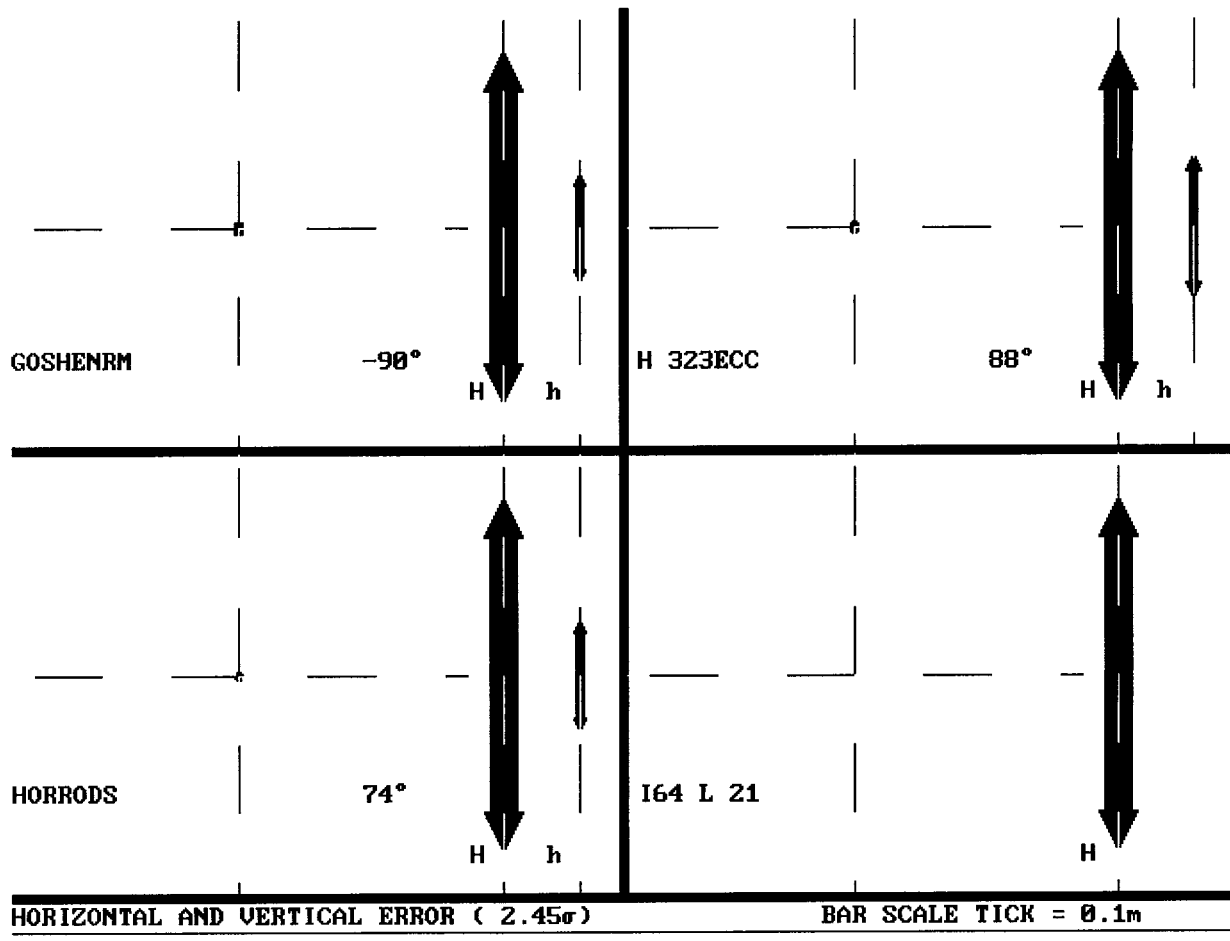
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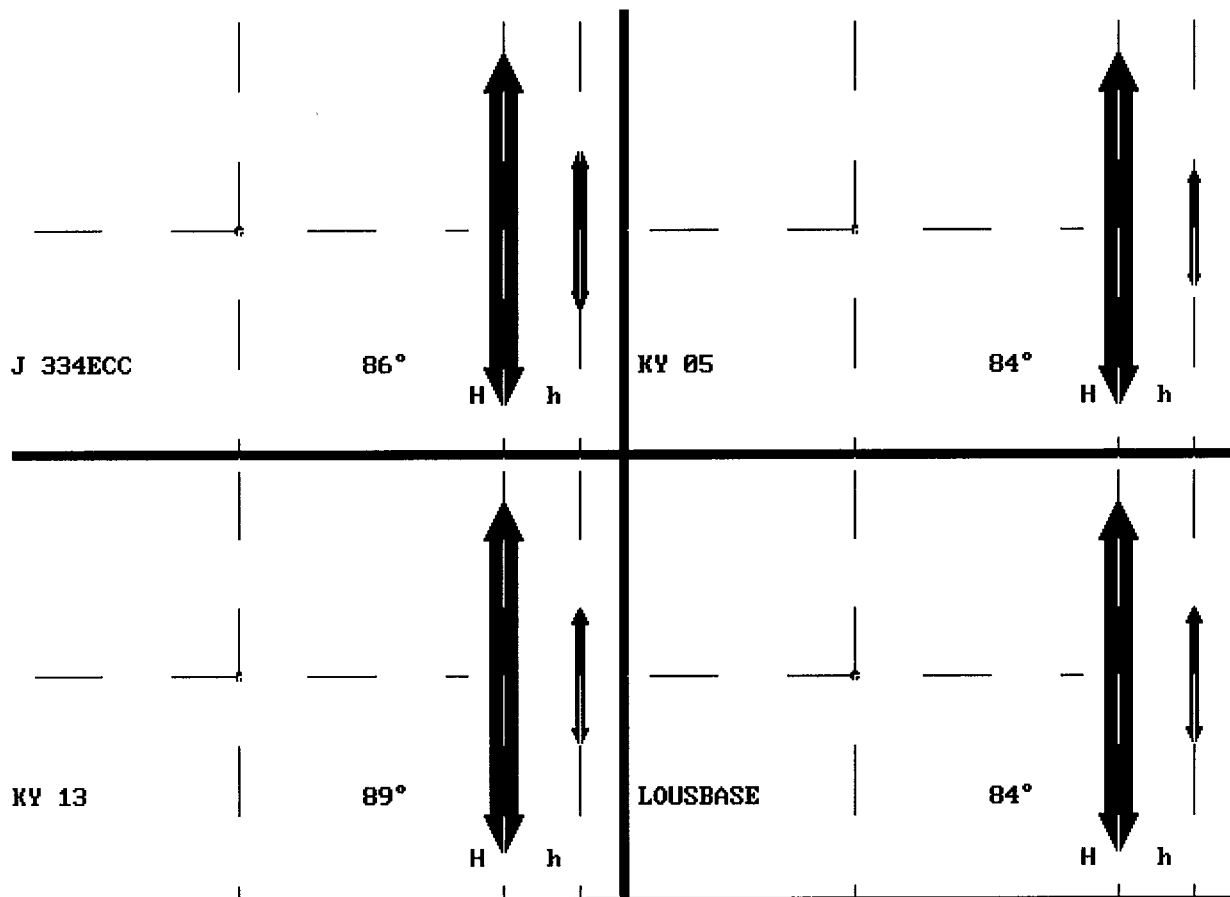
0.0061m

***-

***- 1: 678127



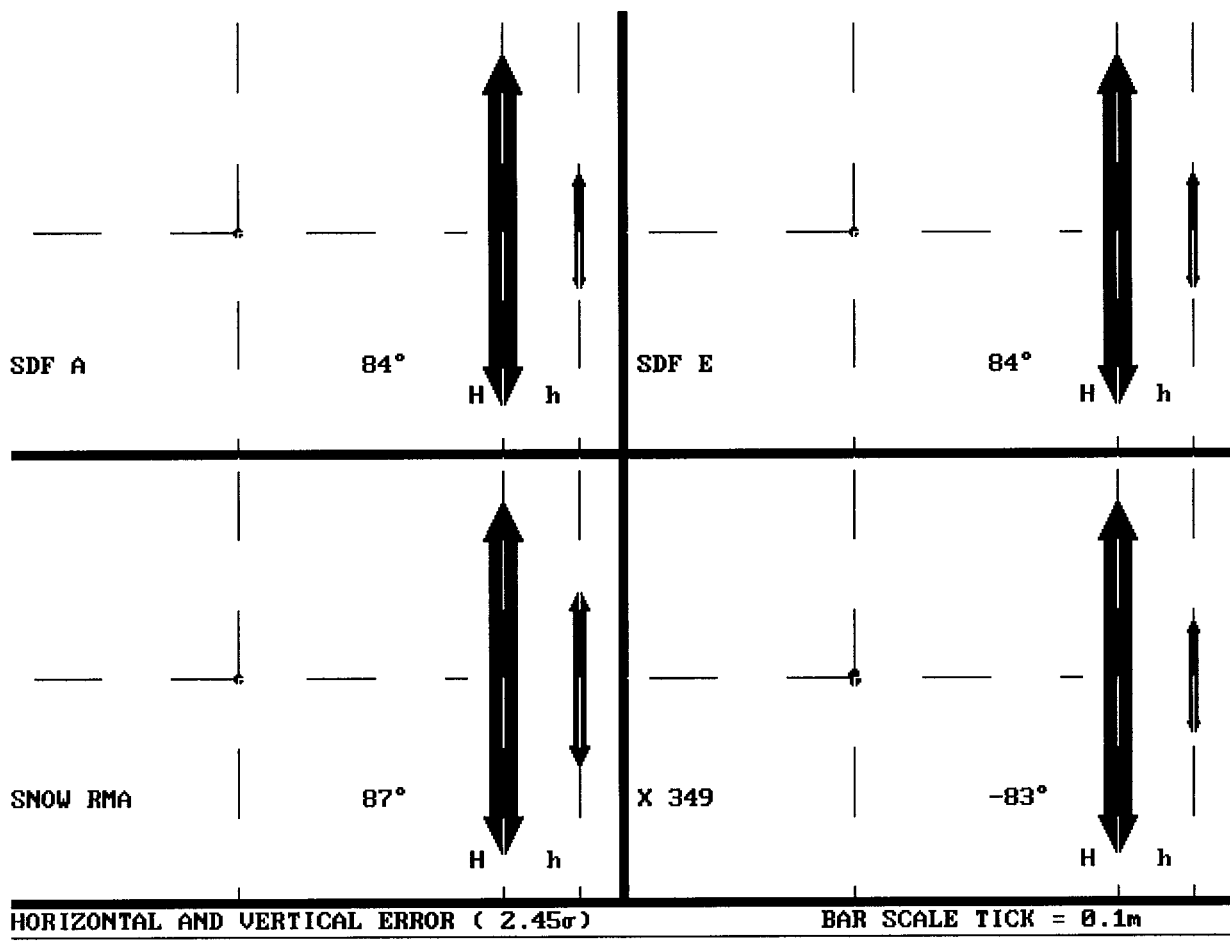




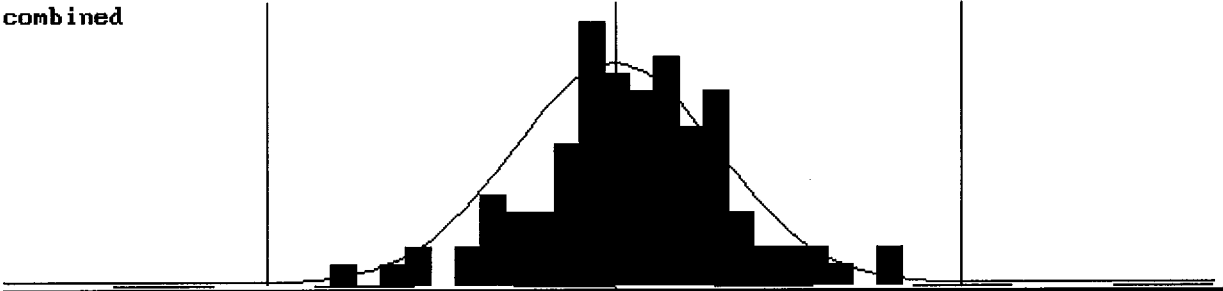
HORIZONTAL AND VERTICAL ERROR (2.45σ)

BAR SCALE TICK = 0.1m

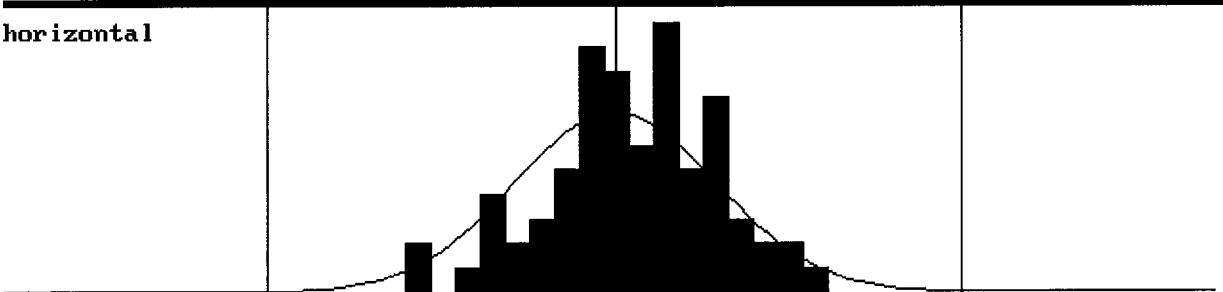
345 KCPM, ECU NAME, MSJOB



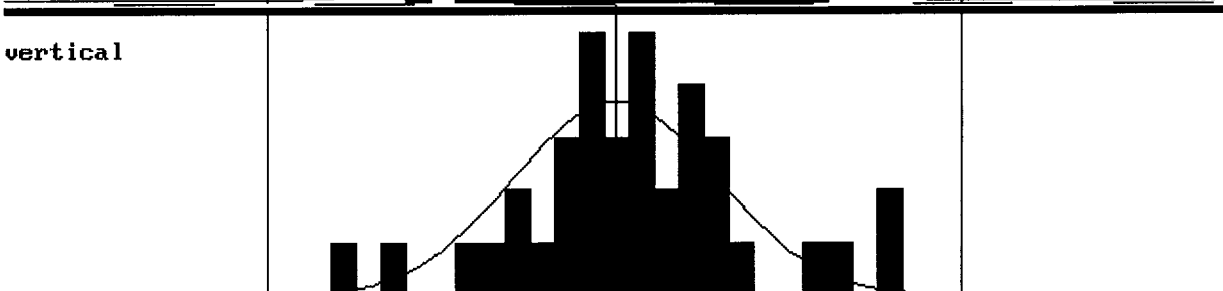
combined



horizontal



vertical



STANDARDIZED RESIDUALS

Tau

BAR SCALE TICK = 1σ