

Network Adjustment Report

Project : Auxillary Base

User name	Andrew Balsler	Date & Time	5:36:08 PM 7/1/2007
Coordinate System	UTM	Zone	6 North
Project Datum	NAD 1983 (Conus)		
	CORS96		
Vertical Datum	NAVD88	Geoid Model	Not selected
Coordinate Units	Meters		
Distance Units	Meters		
Height Units	Meters		

Adjustment Style Settings - 95% Confidence Limits

Residual Tolerances

To End Iterations : 0.000010m
Final Convergence Cutoff : 0.005000m

Covariance Display

Horizontal

Propagated Linear Error [E] : U.S.
Constant Term [C] : 0.00000000m
Scale on Linear Error [S] : 1.96

Three-Dimensional

Propagated Linear Error [E] : U.S.
Constant Term [C] : 0.00000000m
Scale on Linear Error [S] : 1.96
Elevation Errors were used in the calculations.

Adjustment Controls

Compute Correlations for Geoid : False
Horizontal and Vertical adjustment performed

Set-up Errors

GPS

Error in Height of Antenna : 0.000m
Centering Error : 0.000m

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Statistical Summary

Successful Adjustment in 1 iteration(s)

Network Reference Factor : 3.26
 Chi Square Test (a=95%) : FAIL
 Degrees of Freedom : 6.00

GPS Observation Statistics

Reference Factor : 3.26
 Redundancy Number (r) : 6.00

Individual GPS Observation Statistics

Observation ID	Reference Factor	Redundancy Number
B33	4.37	2.19
B34	2.59	2.04
B35	2.16	1.78

Weighting Strategies

GPS Observations

Default Scalar Applied to All Observations

Scalar : 1.00

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Adjusted Coordinates

Adjustment performed in **WGS-84**

Number of Points : 2
 Number of Constrained Points : 1
 Horizontal and Height Only : 1

Adjusted Grid Coordinates

Errors are reported using 1.96s.

Point Name	Easting	E error	Northing	N error	Elevation	e error	Fix
TOOL2845	394376.897m	0.000m	7615061.725m	0.000m	N/A	N/A	N E h
GAL	407083.299m	0.002m	7613706.588m	0.003m	N/A	N/A	

Adjusted Geodetic Coordinates

Errors are reported using 1.96s.

Point Name	Latitude	E error	Longitude	N error	Height	h error	Fix
TOOL2845	68° 37'39.12884"N	0.000m	149° 35'51.91926"W	0.000m	740.016m	0.000m	Lat Long h
GAL	68° 37'11.68623"N	0.002m	149° 17'03.63840"W	0.003m	974.767m	0.007m	

Coordinate Deltas

Point Name	DEasting	DNorthing	DElevation	DHeight	DGeoid Separation
TOOL2845	0.000m	0.000m	N/A	0.000m	N/A
GAL	-0.001m	-0.001m	N/A	0.000m	N/A

Control Coordinate Comparisons

Values shown are control coord minus adjusted coord.

Point Name	DEasting	DNorthing	DElevation	DHeight
TOOL2845	N/A	N/A	N/A	N/A

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Adjusted Observations

Adjustment performed in **WGS-84**

GPS Observations

Number of Observations : 3

Number of Outliers : 0

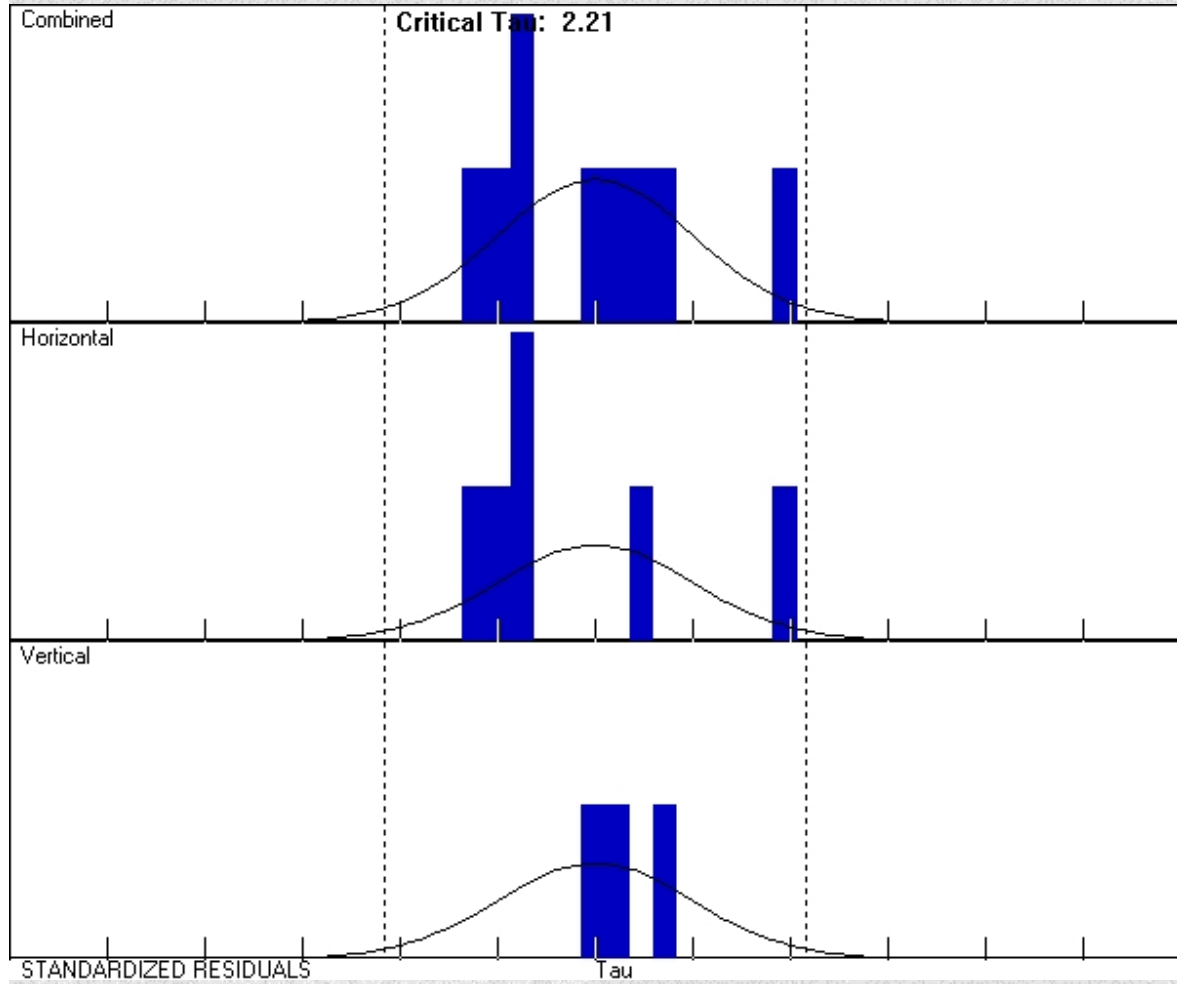
Observation Adjustment (Critical Tau = 2.21). Any outliers are in **red**.

Obs. ID	From Pt.	To Pt.		Observation	A-posteriori Error (1.96s)	Residual	Stand. Residual
B33	TOOL2845	GAL	Az.	93°40'06.0494"	0°00'00.0514"	-0°00'00.0409"	-0.98
			DHt.	234.751m	0.007m	0.001m	0.20
			Dist.	12782.030m	0.002m	0.004m	2.11
B34	TOOL2845	GAL	Az.	93°40'06.0494"	0°00'00.0514"	-0°00'00.0333"	-0.75
			DHt.	234.751m	0.007m	0.004m	0.84
			Dist.	12782.030m	0.002m	-0.003m	-1.21

B35	TOOL2845	GAL	Az.	93°40'06.0494"	0°00'00.0514"	0°00'00.0175"	0.49
			DHt.	234.751m	0.007m	0.000m	-0.05
			Dist.	12782.030m	0.002m	-0.001m	-0.65

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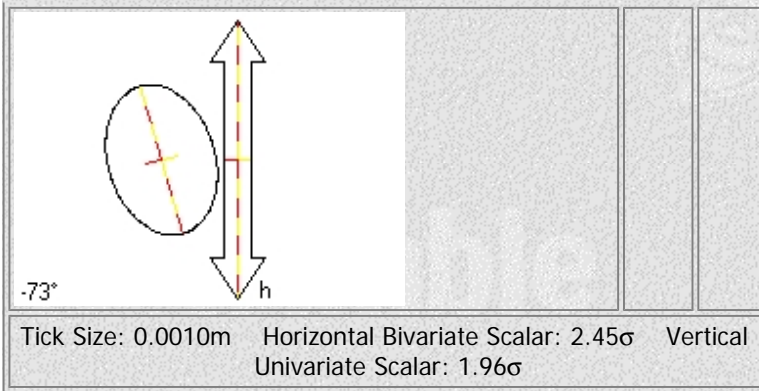
Histograms of Standardized Residuals



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Point Error Ellipses





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Covariant Terms

Adjustment performed in **WGS-84**

From Point	To Point		Components	A-posteriori Error (1.96s)	Horiz. Precision (Ratio)	3D Precision (Ratio)
TOOL2845	GAL	Az.	93°40'06.0494"	0°00'00.0514"	1:5201083	1:5201083
		DHt.	234.751m	0.007m		
		DElev.	?	?		
		Dist.	12782.030m	0.002m		

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