GROUND CONTROL SURVEY REPORT

AZ_Phoenix_GCPs

PREPARED BY:

CompassData®

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Denver, CO 80237
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CompassData Project Number: 6367
Fieldwork Performed: September 27 – October 20, 2020
Project Delivered: October 23, 2020

PREPARED FOR:

VeriDaaS

9656 Metro Airport Avenue
Broomfield, CO 80021

Hereby, I confirm that the survey of Ground Control Points meets or exceeds the requirements of the profession.

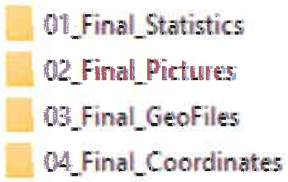
Philipp Hummel

10/26/2020

Philipp Hummel, PLS Date

1. The delivery of the survey is organized for a pilot area and by point type in folders:
   - Folder for GCPs contains Ground Control Points
   - Folder for Monuments contains NGS Monuments
   - Folder for NVA Points contains Non-Vegetated Vertical Assessment Points
   - Folder for VVA Points contains Vegetated Vertical Assessment Points
     - The field survey included points labelled 'Extra'. These points were surveyed and delivered, but are only considered 'extra' points, because standard field methods were not applied.

2. Each Delivery Folder includes following order of data:



3. Requested by the customer and delivered in Spreadsheets are coordinates for different geodetic datums and coordinate projections, as well different vertical datum systems. Abundance of care must be practiced as processing shifts of subsequent data processing can occur. The coordinate lists are noted and documented with correct metadata.

Compass Data Inc.
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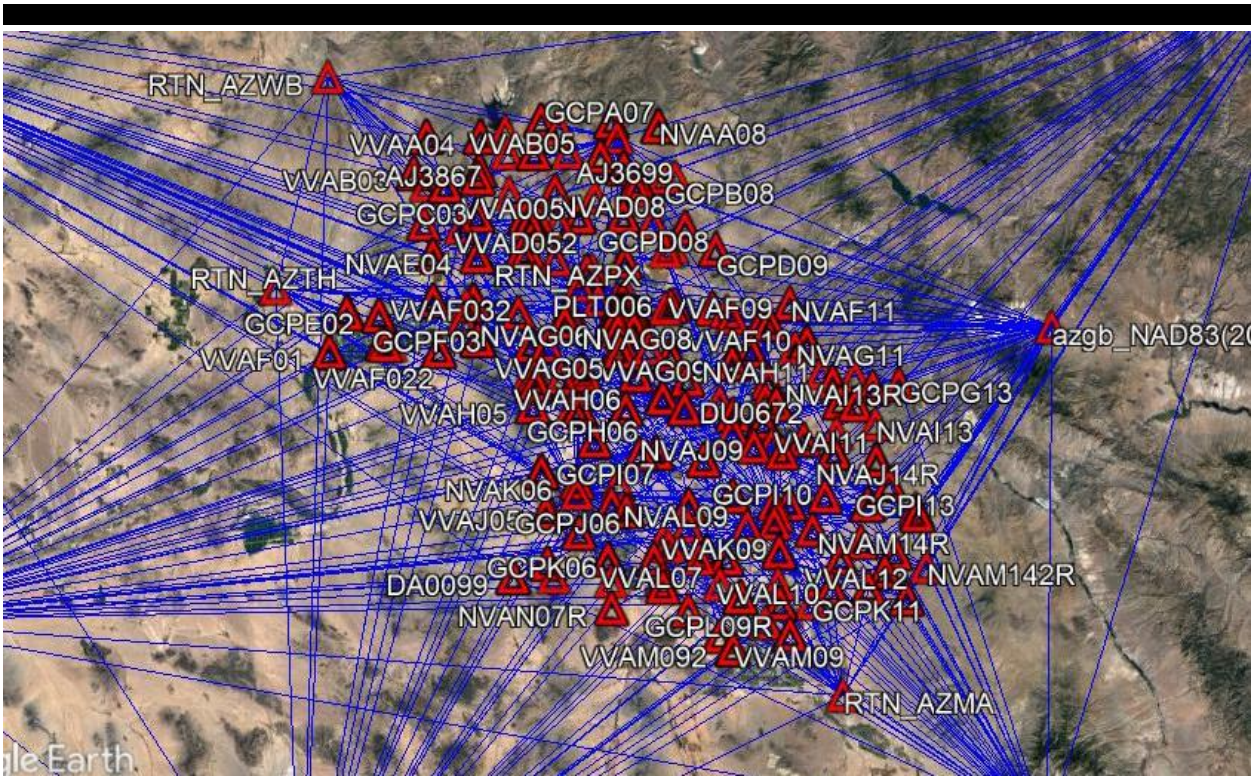
Project File Data		Coordinate System	
Name:	6367_VeriDaas_Greater_Phoenix_Lidar_v8.vce	Name:	World wide/UTM
Size:	2 MB	Datum:	ITRF
Modified:	10/18/2020 4:21:15 PM (UTC:-6)	Zone:	12 North
Time zone:	Mountain Standard Time	Geoid:	GEOID12B (Conus)



Network Adjustment Report

Adjustment Settings

Set-Up Errors

GNSS

Error in Height of Antenna: 0.000 m

Centering Error: 0.000 m

Covariance Display

Horizontal:

Propagated Linear Error [E]: U.S.

Constant Term [C]: 0.000 m

Scale on Linear Error [S]: 1.960

Three-Dimensional

Propagated Linear Error [E]: U.S.

Constant Term [C]: 0.000 m

Scale on Linear Error [S]: 1.960

Adjustment Statistics

Number of Iterations for Successful Adjustment: 2

Network Reference Factor: 1.00

Chi Square Test (95%): Passed

Precision Confidence Level: 95%

Degrees of Freedom: 2102

Post Processed Vector Statistics

Reference Factor: 1.00

Redundancy Number: 646.32

A Priori Scalar: 1.49

RTK Vector Statistics

Reference Factor: 0.99

Redundancy Number: 1455.68

A Priori Scalar: 0.49

Control Coordinate Comparisons

Values shown are control coordinates minus adjusted coordinates.

Point ID	ΔEasting (Meter)	ΔNorthing (Meter)	ΔElevation (Meter)	ΔHeight (Meter)
azmp_NAD83(2011)_Epoch_2010_DS	-0.004	-0.013	?	-0.010
azst_NAD83(2011)_Epoch_2010_DS	-0.008	0.000	?	0.014

Control Point Constraints

Point ID	Type	East σ (Meter)	North σ (Meter)	Height σ (Meter)
azbr_NAD83(2011)_Epoch_2010_DS	Global	Fixed	Fixed	Fixed
azgb_NAD83(2011)_Epoch_2010_DS	Global	Fixed	Fixed	Fixed
p001_NAD83(2011)_Epoch_2010_DS	Global	Fixed	Fixed	Fixed
p003_NAD83(2011)_Epoch_2010_DS	Global	Fixed	Fixed	Fixed
p015_NAD83(2011)_Epoch_2010_DS	Global	Fixed	Fixed	Fixed
p623_NAD83(2011)_Epoch_2010_DS	Global	Fixed	Fixed	Fixed

Fixed = 0.000001(Meter)

Adjusted Grid Coordinates

Point ID	Easting Error (Meter)	Northing Error (Meter)	Elevation Error (Meter)
AJ3644_Static_Get_DS/OPUS	0.007	0.009	0.058
AJ3669	0.007	0.010	0.019
AJ3669_Static_Good	0.008	0.010	0.051
AJ3699	0.003	0.004	0.011
AJ3699_Static_Good	0.010	0.014	0.052
AJ3867	0.004	0.005	0.017

AJ3867_Static_Ok	0.011	0.011	0.063
azmp_NAD83(2011)_Epoch_2010_DS	0.001	0.001	0.005
azst_NAD83(2011)_Epoch_2010_DS	0.001	0.001	0.004
DA0099	0.003	0.005	0.010
DA0099_Static	0.007	0.005	0.053
DU0672	0.004	0.005	0.018
DU0672_Static	0.007	0.009	0.022
DU1317	0.002	0.002	0.006
DU1317_Static_Good	0.010	0.009	0.068
GCP1072	0.004	0.006	0.015
GCP409	0.008	0.009	0.020
GCPA03	0.003	0.004	0.010
GCPA04	0.003	0.004	0.011
GCPA05	0.005	0.007	0.013
GCPA06	0.004	0.005	0.013
GCPA07	0.003	0.004	0.009
GCPA08	0.004	0.004	0.010
GCPB03	0.004	0.004	0.011
GCPB04	0.004	0.005	0.013
GCPB05	0.003	0.004	0.011
GCPB06	0.005	0.006	0.018

GCPB07	0.003	0.004	0.012
GCPB072	0.003	0.004	0.010
GCPB08	0.004	0.006	0.014
GCPC03	0.003	0.004	0.009
GCPC04	0.004	0.005	0.013
GCPC05	0.003	0.004	0.012
GCPC06	0.005	0.006	0.015
GCPC07	0.003	0.005	0.010
GCPC08	0.005	0.005	0.013
GCPD03	0.003	0.004	0.009
GCPD04	0.003	0.004	0.013
GCPD05	0.004	0.005	0.012
GCPD06	0.002	0.003	0.008
GCPD08	0.004	0.005	0.015
GCPD09	0.004	0.005	0.012
GCPE01	0.005	0.006	0.014
GCPE02	0.004	0.005	0.011
GCPE03	0.003	0.004	0.010
GCPE04	0.002	0.003	0.007
GCPE05	0.005	0.007	0.013
GCPE06	0.003	0.005	0.010

GCPE07	0.004	0.004	0.013
GCPE08	0.005	0.004	0.017
GCPE09	0.004	0.006	0.014
GCPE10	0.003	0.005	0.009
GCPE11	0.003	0.004	0.011
GCPF04	0.005	0.006	0.014
GCPF04_RE_Static_Use_RTK	0.012	0.011	0.067
GCPF05	0.004	0.005	0.011
GCPF06	0.005	0.008	0.015
GCPF07	0.003	0.004	0.013
GCPF08	0.003	0.004	0.010
GCPF09	0.004	0.005	0.011
GCPF10	0.003	0.004	0.008
GCPF11	0.004	0.004	0.011
GCPF12	0.003	0.004	0.011
GCPG05	0.006	0.007	0.015
GCPG06	0.004	0.004	0.014
GCPG07	0.008	0.009	0.046
GCPG08	0.004	0.004	0.010
GCPG09	0.004	0.005	0.010
GCPG10	0.003	0.004	0.010

GCPG11	0.003	0.004	0.008
GCPG12	0.003	0.003	0.009
GCPG122	0.005	0.006	0.012
GCPG13	0.010	0.007	0.011
GCPG13R_Static_Good	0.010	0.014	0.053
GCPH05	0.004	0.005	0.011
GCPH06	0.004	0.006	0.012
GCPH062	0.003	0.004	0.013
GCPH07	0.008	0.010	0.021
GCPH08	0.007	0.008	0.021
GCPH09	0.005	0.007	0.015
GCPH10	0.005	0.007	0.018
GCPH11	0.004	0.006	0.017
GCPH112	0.004	0.005	0.015
GCPH122R	0.005	0.006	0.019
GCPH12R	0.003	0.004	0.014
GCPI05	0.005	0.007	0.015
GCPI06	0.002	0.002	0.008
GCPI07	0.007	0.010	0.022
GCPI08	0.005	0.006	0.017
GCPI09	0.007	0.010	0.022

GCPI10	0.005	0.007	0.017
GCPI11	0.006	0.010	0.021
GCPI12	0.003	0.003	0.013
GCPI12_Static_Get_OPUS	0.008	0.011	0.032
GCPI13	0.011	0.013	0.063
GCPJ05	0.005	0.007	0.014
GCPJ06	0.004	0.006	0.012
GCPJ07	0.003	0.004	0.011
GCPJ08	0.006	0.007	0.017
GCPJ09	0.002	0.002	0.011
GCPJ10	0.005	0.006	0.016
GCPJ11R	0.004	0.005	0.014
GCPJ12	0.003	0.003	0.013
GCPJ13R	0.004	0.004	0.052
GCPK07	0.005	0.006	0.019
GCPK08	0.003	0.005	0.015
GCPK09	0.003	0.004	0.014
GCPK10	0.005	0.009	0.016
GCPK11	0.004	0.005	0.014
GCPK12	0.003	0.004	0.013
GCPK13	0.009	0.012	0.066

GCPL09	0.005	0.006	0.016
GCPL09R	0.004	0.005	0.015
GCPL10	0.005	0.006	0.016
GCPL11	0.003	0.004	0.010
HOTELAM1001	0.005	0.005	0.016
HOTELAM1002	0.005	0.005	0.018
HOTELAM927	0.007	0.006	0.019
HOTELAM928	0.005	0.005	0.013
HOTELAM929	0.004	0.006	0.016
HOTELAM930	0.005	0.004	0.011
HOTELPM1001	0.004	0.004	0.011
HOTELPM1002	0.007	0.008	0.019
HOTELPM927	0.003	0.004	0.011
HOTELPM928	0.008	0.010	0.023
HOTELPM929	0.003	0.005	0.012
HOTELPM930	0.011	0.008	0.023
NVA400	0.005	0.008	0.016
NVAA03	0.004	0.004	0.010
NVAA04	0.006	0.009	0.018
NVAA05	0.004	0.004	0.013
NVAA06	0.005	0.006	0.013

NVAA07	0.003	0.004	0.008
NVAA08	0.004	0.004	0.010
NVAB03	0.003	0.003	0.010
NVAB04	0.004	0.005	0.012
NVAB05	0.004	0.004	0.013
NVAB06	0.003	0.004	0.011
NVAB07	0.003	0.004	0.011
NVAB08	0.003	0.003	0.011
NVAC03	0.005	0.005	0.015
NVAC04	0.003	0.005	0.011
NVAC05	0.003	0.005	0.015
NVAC06	0.003	0.004	0.013
NVAC062	0.003	0.003	0.012
NVAC07	0.004	0.005	0.011
NVAC08	0.004	0.005	0.011
NVAC09	0.004	0.005	0.014
NVAD03	0.003	0.004	0.009
NVAD04	0.002	0.003	0.008
NVAD05	0.004	0.005	0.017
NVAD06	0.004	0.007	0.019
NVAD07	0.003	0.004	0.011

NVAD08	0.005	0.007	0.013
NVAE03	0.003	0.004	0.012
NVAE03_Static_Good	0.013	0.012	0.060
NVAE04	0.003	0.004	0.014
NVAE05	0.005	0.006	0.013
NVAE06	0.003	0.004	0.010
NVAE07	0.002	0.003	0.007
NVAE08	0.003	0.004	0.011
NVAF01	0.005	0.007	0.019
NVAF02	0.004	0.005	0.011
NVAF03	0.003	0.004	0.010
NVAF04	0.003	0.004	0.010
NVAF05	0.003	0.004	0.009
NVAF06	0.003	0.005	0.010
NVAF07	0.005	0.004	0.014
NVAF08	0.004	0.004	0.013
NVAF092	0.005	0.004	0.016
NVAF11	0.003	0.004	0.011
NVAG04	0.004	0.004	0.011
NVAG05	0.003	0.005	0.012
NVAG052	0.003	0.005	0.012

NVAG06	0.004	0.005	0.011
NVAG07	0.003	0.004	0.011
NVAG08	0.004	0.006	0.015
NVAG09	0.003	0.005	0.011
NVAG10	0.003	0.003	0.009
NVAG10_Static_Good	0.009	0.010	0.061
NVAG102	0.002	0.003	0.007
NVAG11	0.003	0.004	0.010
NVAG122	0.003	0.004	0.009
NVAH05	0.003	0.004	0.012
NVAH06	0.003	0.004	0.011
NVAH06R	0.003	0.004	0.009
NVAH07	0.006	0.009	0.016
NVAH08	0.004	0.005	0.011
NVAH082	0.004	0.005	0.011
NVAH09	0.003	0.003	0.008
NVAH10	0.003	0.004	0.009
NVAH102	0.003	0.005	0.011
NVAH11	0.004	0.005	0.017
NVAH112	0.004	0.005	0.015
NVAH12	0.003	0.004	0.010

NVAH13	0.003	0.004	0.010
NVAI05R	0.003	0.004	0.014
NVAI06R	0.004	0.004	0.013
NVAI07	0.004	0.004	0.014
NVAI08	0.003	0.003	0.009
NVAI08_a	0.004	0.006	0.012
NVAI09	0.019	0.005	0.020
NVAI09_Static_Good	0.012	0.012	0.039
NVAI10	0.003	0.004	0.010
NVAI11	0.004	0.007	0.014
NVAI12	0.004	0.005	0.011
NVAI122	0.005	0.007	0.016
NVAI13	0.008	0.006	0.022
NVAI13R	0.002	0.003	0.008
NVAJ06	0.004	0.005	0.011
NVAJ06_a	0.005	0.005	0.016
NVAJ07	0.004	0.004	0.010
NVAJ08	0.006	0.007	0.019
NVAJ09	0.007	0.009	0.021
NVAJ10	0.003	0.004	0.013
NVAJ11	0.005	0.007	0.019

NVAJ12	0.004	0.006	0.016
NVAJ122	0.006	0.008	0.018
NVAJ13R	0.004	0.005	0.017
NVAJ14R	0.004	0.005	0.016
NVAK06	0.002	0.003	0.008
NVAK07	0.005	0.007	0.015
NVAK08	0.004	0.005	0.014
NVAK09	0.006	0.008	0.020
NVAK10	0.006	0.008	0.018
NVAK11	0.004	0.006	0.015
NVAK12	0.007	0.011	0.022
NVAK13	0.004	0.004	0.014
NVAK14R	0.007	0.011	0.065
NVAL06	0.004	0.005	0.013
NVAL07	0.005	0.007	0.015
NVAL08	0.007	0.009	0.019
NVAL09	0.004	0.004	0.014
NVAL10	0.004	0.005	0.016
NVAL11	0.005	0.006	0.017
NVAL12_R	0.004	0.005	0.015
NVAL13	0.005	0.006	0.018

NVAL14	0.007	0.007	0.018
NVAM06	0.005	0.008	0.016
NVAM07	0.004	0.005	0.014
NVAM08	0.003	0.004	0.013
NVAM09	0.002	0.002	0.012
NVAM10	0.004	0.005	0.016
NVAM11	0.004	0.006	0.016
NVAM12R	0.004	0.005	0.015
NVAM13	0.004	0.004	0.014
NVAM142R	0.009	0.012	0.070
NVAM14R	0.006	0.007	0.068
NVAN07R	0.005	0.007	0.019
NVAN08R	0.007	0.009	0.021
NVAN09	0.005	0.006	0.018
NVAN10	0.005	0.006	0.016
NVAN102	0.005	0.007	0.016
NVAN11	0.003	0.007	0.014
NVAN12R	0.004	0.005	0.011
NVAN13R	0.004	0.004	0.060
NVAN14	0.006	0.006	0.013
NVAO10R	0.006	0.007	0.024

NVAO11	0.003	0.004	0.011
PLT001	0.003	0.003	0.009
PLT001_alt	0.003	0.005	0.011
PLT002	0.004	0.004	0.012
PLT002_alt	0.004	0.004	0.015
PLT003	0.003	0.003	0.010
PLT004	0.003	0.004	0.012
PLT005	0.005	0.006	0.015
PLT005_alt	0.003	0.003	0.015
PLT006	0.003	0.004	0.010
PLT007	0.004	0.004	0.012
PLT008	0.004	0.005	0.013
PLT009	0.004	0.004	0.014
PLT010	0.003	0.005	0.009
PLT010_alt	0.003	0.005	0.010
PLT011	0.003	0.003	0.008
PLT011_alt	0.004	0.004	0.011
PLT012	0.004	0.004	0.010
PLT013	0.004	0.004	0.012
PLT014	0.004	0.004	0.010
PLT015	0.003	0.005	0.009

PLT016	0.004	0.004	0.010
PLT017	0.004	0.004	0.012
PLT018	0.004	0.004	0.010
PLT019	0.005	0.007	0.014
PLT020	0.004	0.006	0.011
PVA001	0.005	0.005	0.016
PVA002	0.003	0.004	0.009
PVA003	0.006	0.007	0.020
PVA005	0.006	0.006	0.019
PVA005_ALT	0.004	0.004	0.012
RTN_AZAJ	0.001	0.001	0.005
RTN_AZCG	0.001	0.001	0.011
RTN_AZCK	0.001	0.001	0.006
RTN_AZGE	0.001	0.001	0.005
RTN_AZMA	0.001	0.001	0.005
RTN_AZPX	0.001	0.001	0.005
RTN_AZS1	0.001	0.001	0.005
RTN_AZTH	0.001	0.001	0.006
RTN_AZWB	0.001	0.001	0.006
RTN_COOL	0.001	0.001	0.010
VVA_ALT_sm1	0.004	0.006	0.012

VVA_ALT_sm2	0.005	0.006	0.013
VVA_ALT_sm3	0.004	0.006	0.015
VVA_ALT_sm4	0.005	0.006	0.019
VVA_ALT_sm6	0.005	0.006	0.013
VVA005	0.004	0.007	0.012
VVAA03	0.004	0.005	0.011
VVAA04	0.003	0.005	0.012
VVAA06	0.005	0.008	0.015
VVAA07	0.004	0.006	0.012
VVAA08	0.009	0.012	0.022
VVAB03	0.004	0.004	0.010
VVAB04	0.005	0.007	0.018
VVAB05	0.004	0.004	0.011
VVAB06	0.004	0.005	0.018
VVAB07	0.005	0.006	0.017
VVAC04	0.003	0.004	0.011
VVAC042	0.004	0.005	0.012
VVAC06	0.007	0.008	0.022
VVAC07	0.005	0.008	0.015
VVAC08	0.005	0.005	0.014
VVAD03	0.003	0.004	0.009

VVAD04	0.003	0.004	0.013
VVAD05	0.004	0.006	0.012
VVAD052	0.004	0.004	0.013
VVAD06	0.003	0.004	0.011
VVAD07	0.004	0.007	0.017
VVAD08	0.003	0.005	0.012
VVAD082	0.006	0.007	0.019
VVAE01	0.004	0.011	0.016
VVAE012	0.004	0.005	0.013
VVAE02	0.004	0.005	0.011
VVAE03	0.005	0.006	0.018
VVAE04	0.002	0.002	0.008
VVAE07	0.004	0.006	0.016
VVAE072	0.005	0.007	0.013
VVAE073	0.005	0.007	0.014
VVAF01	0.007	0.006	0.048
VVAF02	0.008	0.006	0.021
VVAF022	0.004	0.005	0.012
VVAF032	0.003	0.003	0.010
VVAF06	0.004	0.006	0.011
VVAF062	0.004	0.006	0.017

VVAF063	0.004	0.004	0.011
VVAF07	0.004	0.006	0.014
VVAF08	0.007	0.010	0.019
VVAF09	0.004	0.005	0.011
VVAF10	0.002	0.004	0.007
VVAF11	0.004	0.004	0.011
VVAF112	0.005	0.008	0.015
VVAG05	0.006	0.006	0.014
VVAG06	0.004	0.006	0.011
VVAG062	0.004	0.010	0.012
VVAG07	0.007	0.010	0.014
VVAG08	0.005	0.008	0.015
VVAG09	0.006	0.007	0.017
VVAG092	0.003	0.003	0.009
VVAG10	0.005	0.007	0.014
VVAH05	0.004	0.005	0.017
VVAH06	0.004	0.005	0.014
VVAH07	0.004	0.005	0.011
VVAH08	0.004	0.005	0.010
VVAH09	0.004	0.004	0.011
VVAH10	0.005	0.007	0.015

VVAH102	0.005	0.007	0.015
VVAH11	0.004	0.006	0.012
VVAH12	0.002	0.003	0.008
VVAI05	0.004	0.004	0.012
VVAI06	0.003	0.004	0.010
VVAI07	0.005	0.007	0.014
VVAI08	0.005	0.006	0.013
VVAI09	0.004	0.005	0.014
VVAI10	0.004	0.006	0.017
VVAI11	0.003	0.004	0.013
VVAI12	0.004	0.005	0.018
VVAI13	0.010	0.011	0.064
VVAJ05	0.005	0.005	0.012
VVAJ052	0.003	0.003	0.009
VVAJ06	0.004	0.005	0.012
VVAJ07	0.004	0.005	0.013
VVAJ08	0.005	0.007	0.017
VVAJ09	0.007	0.009	0.021
VVAJ10	0.006	0.009	0.018
VVAJ11	0.004	0.004	0.014
VVAJ12	0.013	0.013	0.071

VVAK05	0.005	0.007	0.015
VVAK06	0.004	0.005	0.014
VVAK07	0.006	0.007	0.019
VVAK08	0.003	0.003	0.013
VVAK09	0.005	0.006	0.019
VVAK10	0.004	0.005	0.016
VVAK11	0.007	0.008	0.021
VVAK12	0.004	0.005	0.014
VVAL06	0.002	0.003	0.010
VVAL07	0.008	0.010	0.022
VVAL08	0.004	0.005	0.016
VVAL09	0.004	0.005	0.014
VVAL092	0.004	0.005	0.014
VVAL10	0.003	0.005	0.013
VVAL11	0.003	0.004	0.007
VVAL12	0.004	0.005	0.015
VVAL13	0.004	0.005	0.011
VVAM092	0.004	0.005	0.017
VVAM10	0.003	0.004	0.012

Error Ellipse Components

Point ID	Semi-major axis (Meter)	Semi-minor axis (Meter)	Azimuth
AJ3644_Static_Get_DS/OPUS	0.012	0.009	178°
AJ3669	0.012	0.009	176°
AJ3669_Static_Good	0.012	0.010	168°
AJ3699	0.005	0.004	154°
AJ3699_Static_Good	0.018	0.012	163°
AJ3867	0.006	0.005	15°
AJ3867_Static_Ok	0.015	0.011	135°
azmp_NAD83(2011)_Epoch_2010_DS	0.001	0.001	163°
azst_NAD83(2011)_Epoch_2010_DS	0.001	0.001	143°
DA0099	0.006	0.004	177°
DA0099_Static	0.009	0.006	114°
DU0672	0.006	0.005	18°
DU0672_Static	0.011	0.008	177°
DU1317	0.003	0.002	151°
DU1317_Static_Good	0.012	0.011	126°
GCP1072	0.008	0.005	170°
GCP409	0.012	0.010	19°
GCPA03	0.005	0.004	9°

GCPA04	0.006	0.004	8°
GCPA05	0.008	0.006	7°
GCPA06	0.006	0.004	19°
GCPA07	0.005	0.004	5°
GCPA08	0.006	0.004	158°
GCPB03	0.005	0.004	132°
GCPB04	0.006	0.005	169°
GCPB05	0.005	0.004	167°
GCPB06	0.008	0.007	5°
GCPB07	0.005	0.004	16°
GCPB072	0.005	0.004	29°
GCPB08	0.007	0.006	179°
GCPC03	0.005	0.004	9°
GCPC04	0.006	0.005	0°
GCPC05	0.005	0.004	174°
GCPC06	0.008	0.006	13°
GCPC07	0.006	0.004	176°
GCPC08	0.007	0.006	17°
GCPD03	0.004	0.004	174°
GCPD04	0.005	0.004	1°
GCPD05	0.007	0.005	11°

GCPD06	0.004	0.003	8°
GCPD08	0.006	0.005	11°
GCPD09	0.006	0.005	13°
GCPE01	0.008	0.006	171°
GCPE02	0.006	0.005	4°
GCPE03	0.005	0.004	4°
GCPE04	0.004	0.003	178°
GCPE05	0.008	0.006	176°
GCPE06	0.006	0.004	172°
GCPE07	0.005	0.004	127°
GCPE08	0.006	0.005	109°
GCPE09	0.007	0.004	178°
GCPE10	0.006	0.004	3°
GCPE11	0.005	0.004	2°
GCPF04	0.007	0.007	164°
GCPF04_RE_Static_Use_RTK	0.017	0.013	52°
GCPF05	0.006	0.005	169°
GCPF06	0.010	0.006	178°
GCPF07	0.005	0.004	2°
GCPF08	0.006	0.004	171°
GCPF09	0.006	0.004	2°

GCPF10	0.005	0.004	173°
GCPF11	0.005	0.004	178°
GCPF12	0.005	0.004	172°
GCPG05	0.009	0.007	170°
GCPG06	0.006	0.004	141°
GCPG07	0.011	0.010	18°
GCPG08	0.006	0.004	10°
GCPG09	0.006	0.004	9°
GCPG10	0.005	0.004	13°
GCPG11	0.004	0.003	172°
GCPG12	0.004	0.004	10°
GCPG122	0.008	0.006	7°
GCPG13	0.014	0.006	123°
GCPG13R_Static_Good	0.017	0.012	1°
GCPH05	0.007	0.005	175°
GCPH06	0.007	0.005	12°
GCPH062	0.005	0.004	174°
GCPH07	0.012	0.010	16°
GCPH08	0.011	0.008	6°
GCPH09	0.008	0.007	9°
GCPH10	0.009	0.006	172°

GCPH11	0.008	0.005	171°
GCPH112	0.007	0.004	170°
GCPH122R	0.007	0.006	13°
GCPH12R	0.005	0.004	14°
GCPI05	0.008	0.006	167°
GCPI06	0.003	0.003	161°
GCPI07	0.012	0.009	173°
GCPI08	0.008	0.006	175°
GCPI09	0.013	0.009	5°
GCPI10	0.009	0.006	174°
GCPI11	0.013	0.008	178°
GCPI12	0.004	0.003	11°
GCPI12_Static_Get_OPUS	0.014	0.010	10°
GCPI13	0.016	0.013	17°
GCPJ05	0.008	0.006	7°
GCPJ06	0.007	0.006	172°
GCPJ07	0.005	0.004	11°
GCPJ08	0.009	0.007	176°
GCPJ09	0.003	0.002	8°
GCPJ10	0.008	0.006	16°
GCPJ11R	0.006	0.004	3°

GCPJ12	0.004	0.003	171°
GCPJ13R	0.005	0.005	55°
GCPK07	0.008	0.006	177°
GCPK08	0.006	0.004	174°
GCPK09	0.005	0.004	177°
GCPK10	0.011	0.006	16°
GCPK11	0.007	0.005	169°
GCPK12	0.005	0.004	166°
GCPK13	0.015	0.011	180°
GCPL09	0.008	0.006	12°
GCPL09R	0.006	0.005	14°
GCPL10	0.007	0.006	12°
GCPL11	0.005	0.004	167°
HOTELAM1001	0.006	0.006	8°
HOTELAM1002	0.007	0.006	12°
HOTELAM927	0.010	0.006	66°
HOTELAM928	0.007	0.005	44°
HOTELAM929	0.008	0.005	16°
HOTELAM930	0.006	0.005	53°
HOTELPM1001	0.006	0.004	15°
HOTELPM1002	0.011	0.009	15°

HOTELPM927	0.005	0.004	11°
HOTELPM928	0.012	0.010	173°
HOTELPM929	0.006	0.004	178°
HOTELPM930	0.013	0.010	105°
NVA400	0.010	0.006	173°
NVAA03	0.005	0.004	10°
NVAA04	0.011	0.007	11°
NVAA05	0.005	0.005	18°
NVAA06	0.008	0.006	8°
NVAA07	0.004	0.003	0°
NVAA08	0.005	0.004	155°
NVAB03	0.004	0.004	140°
NVAB04	0.006	0.005	170°
NVAB05	0.005	0.005	164°
NVAB06	0.005	0.004	167°
NVAB07	0.005	0.004	29°
NVAB08	0.004	0.004	6°
NVAC03	0.006	0.006	129°
NVAC04	0.006	0.004	172°
NVAC05	0.006	0.004	174°
NVAC06	0.005	0.004	149°

NVAC062	0.005	0.004	143°
NVAC07	0.006	0.005	166°
NVAC08	0.006	0.005	9°
NVAC09	0.006	0.005	171°
NVAD03	0.005	0.004	7°
NVAD04	0.004	0.003	177°
NVAD05	0.007	0.005	0°
NVAD06	0.008	0.005	2°
NVAD07	0.005	0.004	16°
NVAD08	0.009	0.006	174°
NVAE03	0.005	0.004	160°
NVAE03_Static_Good	0.020	0.011	130°
NVAE04	0.006	0.004	7°
NVAE05	0.007	0.006	9°
NVAE06	0.005	0.004	1°
NVAE07	0.003	0.003	6°
NVAE08	0.004	0.004	172°
NVAF01	0.008	0.006	177°
NVAF02	0.006	0.005	4°
NVAF03	0.005	0.004	5°
NVAF04	0.005	0.004	176°

NVAF05	0.005	0.004	172°
NVAF06	0.006	0.004	174°
NVAF07	0.007	0.005	127°
NVAF08	0.005	0.005	132°
NVAF092	0.006	0.005	103°
NVAF11	0.005	0.004	3°
NVAG04	0.006	0.005	163°
NVAG05	0.006	0.004	2°
NVAG052	0.006	0.004	3°
NVAG06	0.006	0.004	11°
NVAG07	0.005	0.004	14°
NVAG08	0.008	0.005	171°
NVAG09	0.006	0.004	1°
NVAG10	0.004	0.003	179°
NVAG10_Static_Good	0.013	0.011	157°
NVAG102	0.004	0.003	174°
NVAG11	0.005	0.004	176°
NVAG122	0.005	0.004	177°
NVAH05	0.005	0.004	15°
NVAH06	0.005	0.004	179°
NVAH06R	0.005	0.003	168°

NVAH07	0.011	0.007	4°
NVAH08	0.006	0.005	8°
NVAH082	0.006	0.005	5°
NVAH09	0.004	0.003	168°
NVAH10	0.005	0.004	1°
NVAH102	0.006	0.004	3°
NVAH11	0.007	0.005	174°
NVAH112	0.006	0.005	177°
NVAH12	0.005	0.004	173°
NVAH13	0.005	0.004	8°
NVAI05R	0.006	0.004	169°
NVAI06R	0.006	0.004	141°
NVAI07	0.006	0.005	140°
NVAI08	0.004	0.003	3°
NVAI08_a	0.007	0.005	180°
NVAI09	0.023	0.006	92°
NVAI09_Static_Good	0.017	0.013	46°
NVAI10	0.005	0.004	13°
NVAI11	0.009	0.006	173°
NVAI12	0.007	0.005	7°
NVAI122	0.009	0.006	2°

NVAI13	0.011	0.007	121°
NVAI13R	0.004	0.003	3°
NVAJ06	0.007	0.005	177°
NVAJ06_a	0.006	0.006	137°
NVAJ07	0.006	0.004	15°
NVAJ08	0.009	0.007	1°
NVAJ09	0.012	0.009	8°
NVAJ10	0.005	0.004	173°
NVAJ11	0.009	0.006	171°
NVAJ12	0.008	0.006	171°
NVAJ122	0.010	0.007	170°
NVAJ13R	0.007	0.005	14°
NVAJ14R	0.006	0.005	144°
NVAK06	0.003	0.003	161°
NVAK07	0.008	0.006	170°
NVAK08	0.007	0.005	169°
NVAK09	0.010	0.007	174°
NVAK10	0.010	0.007	4°
NVAK11	0.008	0.005	175°
NVAK12	0.014	0.008	179°
NVAK13	0.005	0.004	28°

NVAK14R	0.014	0.009	18°
NVAL06	0.007	0.005	167°
NVAL07	0.009	0.007	173°
NVAL08	0.012	0.009	4°
NVAL09	0.005	0.005	33°
NVAL10	0.006	0.005	172°
NVAL11	0.008	0.006	172°
NVAL12_R	0.007	0.005	2°
NVAL13	0.008	0.007	1°
NVAL14	0.009	0.008	66°
NVAM06	0.010	0.007	5°
NVAM07	0.007	0.005	14°
NVAM08	0.005	0.004	173°
NVAM09	0.003	0.003	8°
NVAM10	0.006	0.005	7°
NVAM11	0.007	0.005	15°
NVAM12R	0.006	0.005	12°
NVAM13	0.005	0.005	167°
NVAM142R	0.015	0.010	161°
NVAM14R	0.009	0.008	172°
NVAN07R	0.009	0.006	176°

NVAN08R	0.011	0.009	0°
NVAN09	0.007	0.006	1°
NVAN10	0.008	0.006	6°
NVAN102	0.008	0.006	9°
NVAN11	0.008	0.004	179°
NVAN12R	0.007	0.004	1°
NVAN13R	0.006	0.005	140°
NVAN14	0.008	0.007	64°
NVAO10R	0.009	0.008	12°
NVAO11	0.005	0.004	169°
PLT001	0.004	0.003	1°
PLT001_alt	0.006	0.004	3°
PLT002	0.006	0.005	24°
PLT002_alt	0.006	0.005	142°
PLT003	0.004	0.004	11°
PLT004	0.005	0.004	165°
PLT005	0.008	0.005	28°
PLT005_alt	0.004	0.003	27°
PLT006	0.005	0.004	11°
PLT007	0.005	0.004	29°
PLT008	0.006	0.005	157°

PLT009	0.005	0.005	131°
PLT010	0.006	0.004	11°
PLT010_alt	0.006	0.004	9°
PLT011	0.004	0.003	176°
PLT011_alt	0.005	0.005	8°
PLT012	0.005	0.005	17°
PLT013	0.005	0.004	128°
PLT014	0.005	0.005	23°
PLT015	0.006	0.004	14°
PLT016	0.005	0.004	148°
PLT017	0.005	0.004	52°
PLT018	0.005	0.005	32°
PLT019	0.009	0.007	0°
PLT020	0.008	0.006	177°
PVA001	0.006	0.005	150°
PVA002	0.005	0.004	162°
PVA003	0.009	0.007	164°
PVA005	0.009	0.007	126°
PVA005_ALT	0.005	0.004	130°
RTN_AZAJ	0.001	0.001	19°
RTN_AZCG	0.002	0.001	155°

RTN_AZCK	0.002	0.001	162°
RTN_AZGE	0.001	0.001	134°
RTN_AZMA	0.001	0.001	151°
RTN_AZPX	0.001	0.001	158°
RTN_AZS1	0.001	0.001	141°
RTN_AZTH	0.001	0.001	114°
RTN_AZWB	0.001	0.001	132°
RTN_COOL	0.002	0.001	131°
VVA_ALT_sm1	0.007	0.005	176°
VVA_ALT_sm2	0.008	0.006	165°
VVA_ALT_sm3	0.007	0.005	177°
VVA_ALT_sm4	0.008	0.006	6°
VVA_ALT_sm6	0.007	0.006	171°
VVA005	0.009	0.005	167°
VVAA03	0.007	0.005	11°
VVAA04	0.006	0.004	5°
VVAA06	0.010	0.006	14°
VVAA07	0.008	0.005	5°
VVAA08	0.015	0.010	157°
VVAB03	0.005	0.004	144°
VVAB04	0.009	0.006	167°

VVAB05	0.006	0.005	165°
VVAB06	0.007	0.005	5°
VVAB07	0.008	0.007	179°
VVAC04	0.005	0.004	175°
VVAC042	0.006	0.005	5°
VVAC06	0.010	0.008	11°
VVAC07	0.010	0.006	176°
VVAC08	0.007	0.006	30°
VVAD03	0.004	0.004	2°
VVAD04	0.005	0.004	169°
VVAD05	0.008	0.005	5°
VVAD052	0.006	0.004	156°
VVAD06	0.005	0.003	171°
VVAD07	0.009	0.006	178°
VVAD08	0.006	0.004	173°
VVAD082	0.009	0.007	18°
VVAE01	0.014	0.004	164°
VVAE012	0.007	0.005	5°
VVAE02	0.006	0.005	7°
VVAE03	0.008	0.006	2°
VVAE04	0.003	0.003	160°

VVAE07	0.008	0.005	1°
VVAE072	0.008	0.006	180°
VVAE073	0.009	0.006	177°
VVAF01	0.009	0.008	103°
VVAF02	0.010	0.007	57°
VVAF022	0.006	0.005	17°
VVAF032	0.005	0.004	115°
VVAF06	0.007	0.005	163°
VVAF062	0.007	0.005	162°
VVAF063	0.005	0.004	164°
VVAF07	0.007	0.005	169°
VVAF08	0.012	0.008	166°
VVAF09	0.006	0.004	5°
VVAF10	0.005	0.003	173°
VVAF11	0.006	0.005	165°
VVAF112	0.010	0.005	163°
VVAG05	0.008	0.007	27°
VVAG06	0.008	0.005	178°
VVAG062	0.013	0.005	8°
VVAG07	0.014	0.005	30°
VVAG08	0.010	0.006	167°

VVAG09	0.009	0.007	179°
VVAG092	0.004	0.003	10°
VVAG10	0.008	0.006	178°
VVAH05	0.006	0.005	170°
VVAH06	0.006	0.005	140°
VVAH07	0.007	0.005	4°
VVAH08	0.006	0.005	179°
VVAH09	0.006	0.005	12°
VVAH10	0.009	0.007	177°
VVAH102	0.008	0.007	12°
VVAH11	0.007	0.005	10°
VVAH12	0.004	0.003	1°
VVAI05	0.005	0.004	174°
VVAI06	0.005	0.004	179°
VVAI07	0.008	0.007	9°
VVAI08	0.007	0.006	10°
VVAI09	0.006	0.005	175°
VVAI10	0.007	0.005	171°
VVAI11	0.005	0.004	178°
VVAI12	0.007	0.006	5°
VVAI13	0.014	0.012	3°

VVAJ05	0.006	0.006	86°
VVAJ052	0.004	0.004	3°
VVAJ06	0.007	0.005	172°
VVAJ07	0.007	0.005	167°
VVAJ08	0.008	0.006	174°
VVAJ09	0.011	0.008	8°
VVAJ10	0.011	0.008	173°
VVAJ11	0.006	0.005	16°
VVAJ12	0.018	0.014	46°
VVAK05	0.009	0.006	13°
VVAK06	0.006	0.004	8°
VVAK07	0.009	0.007	5°
VVAK08	0.004	0.003	12°
VVAK09	0.007	0.006	180°
VVAK10	0.007	0.005	15°
VVAK11	0.010	0.008	23°
VVAK12	0.006	0.005	173°
VVAL06	0.004	0.003	177°
VVAL07	0.013	0.010	5°
VVAL08	0.006	0.005	178°
VVAL09	0.006	0.005	10°

VVAL092	0.006	0.005	9°
VVAL10	0.006	0.004	177°
VVAL11	0.006	0.004	7°
VVAL12	0.006	0.005	3°
VVAL13	0.006	0.004	11°
VVAM092	0.006	0.005	5°
VVAM10	0.005	0.004	166°

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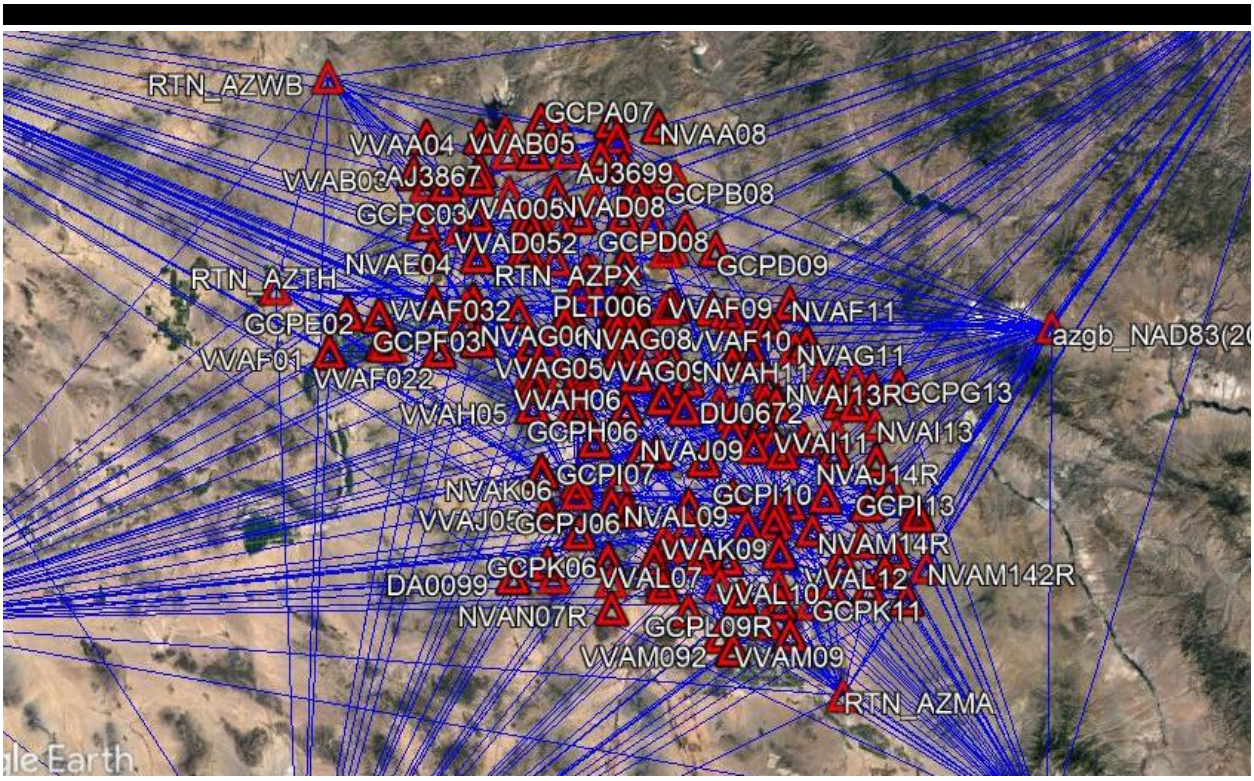
Project File Data		Coordinate System	
Name:	6367_VeriDaas_Greater_Phoenix_Lidar_v8.vce	Name:	World wide/UTM
Size:	2 MB	Datum:	ITRF
Modified:	10/18/2020 4:21:15 PM (UTC:-6)	Zone:	12 North
Time zone:	Mountain Standard Time	Geoid:	GEOID12B (Conus)



Network Adjustment Report

Adjustment Settings

Set-Up Errors

GNSS

Error in Height of Antenna: 0.000 m

Centering Error: 0.000 m

Covariance Display

Horizontal:

Propagated Linear Error [E]: U.S.

Constant Term [C]: 0.000 m

Scale on Linear Error [S]: 1.960

Three-Dimensional

Propagated Linear Error [E]: U.S.

Constant Term [C]: 0.000 m

Scale on Linear Error [S]: 1.960

Adjustment Statistics

Number of Iterations for Successful Adjustment: 2

Network Reference Factor: 1.00

Chi Square Test (95%): Passed

Precision Confidence Level: 95%

Degrees of Freedom: 2102

Post Processed Vector Statistics

Reference Factor: 1.00

Redundancy Number: 646.32

A Priori Scalar: 1.49

RTK Vector Statistics

Reference Factor: 0.99

Redundancy Number: 1455.68

A Priori Scalar: 0.49

Control Coordinate Comparisons

Values shown are control coordinates minus adjusted coordinates.

Point ID	ΔEasting (Meter)	ΔNorthing (Meter)	ΔElevation (Meter)	ΔHeight (Meter)
azmp_NAD83(2011)_Epoch_2010_DS	-0.004	-0.013	?	-0.010
azst_NAD83(2011)_Epoch_2010_DS	-0.008	0.000	?	0.014

Control Point Constraints

Point ID	Type	East σ (Meter)	North σ (Meter)	Height σ (Meter)
azbr_NAD83(2011)_Epoch_2010_DS	Global	Fixed	Fixed	Fixed
azgb_NAD83(2011)_Epoch_2010_DS	Global	Fixed	Fixed	Fixed
p001_NAD83(2011)_Epoch_2010_DS	Global	Fixed	Fixed	Fixed
p003_NAD83(2011)_Epoch_2010_DS	Global	Fixed	Fixed	Fixed
p015_NAD83(2011)_Epoch_2010_DS	Global	Fixed	Fixed	Fixed
p623_NAD83(2011)_Epoch_2010_DS	Global	Fixed	Fixed	Fixed

Fixed = 0.000001(Meter)

Adjusted Grid Coordinates

Point ID	Easting Error (Meter)	Northing Error (Meter)	Elevation Error (Meter)
AJ3644_Static_Get_DS/OPUS	0.007	0.009	0.058
AJ3669	0.007	0.010	0.019
AJ3669_Static_Good	0.008	0.010	0.051
AJ3699	0.003	0.004	0.011
AJ3699_Static_Good	0.010	0.014	0.052
AJ3867	0.004	0.005	0.017

AJ3867_Static_Ok	0.011	0.011	0.063
azmp_NAD83(2011)_Epoch_2010_DS	0.001	0.001	0.005
azst_NAD83(2011)_Epoch_2010_DS	0.001	0.001	0.004
DA0099	0.003	0.005	0.010
DA0099_Static	0.007	0.005	0.053
DU0672	0.004	0.005	0.018
DU0672_Static	0.007	0.009	0.022
DU1317	0.002	0.002	0.006
DU1317_Static_Good	0.010	0.009	0.068
GCP1072	0.004	0.006	0.015
GCP409	0.008	0.009	0.020
GCPA03	0.003	0.004	0.010
GCPA04	0.003	0.004	0.011
GCPA05	0.005	0.007	0.013
GCPA06	0.004	0.005	0.013
GCPA07	0.003	0.004	0.009
GCPA08	0.004	0.004	0.010
GCPB03	0.004	0.004	0.011
GCPB04	0.004	0.005	0.013
GCPB05	0.003	0.004	0.011
GCPB06	0.005	0.006	0.018

GCPB07	0.003	0.004	0.012
GCPB072	0.003	0.004	0.010
GCPB08	0.004	0.006	0.014
GCPC03	0.003	0.004	0.009
GCPC04	0.004	0.005	0.013
GCPC05	0.003	0.004	0.012
GCPC06	0.005	0.006	0.015
GCPC07	0.003	0.005	0.010
GCPC08	0.005	0.005	0.013
GCPD03	0.003	0.004	0.009
GCPD04	0.003	0.004	0.013
GCPD05	0.004	0.005	0.012
GCPD06	0.002	0.003	0.008
GCPD08	0.004	0.005	0.015
GCPD09	0.004	0.005	0.012
GCPE01	0.005	0.006	0.014
GCPE02	0.004	0.005	0.011
GCPE03	0.003	0.004	0.010
GCPE04	0.002	0.003	0.007
GCPE05	0.005	0.007	0.013
GCPE06	0.003	0.005	0.010

GCPE07	0.004	0.004	0.013
GCPE08	0.005	0.004	0.017
GCPE09	0.004	0.006	0.014
GCPE10	0.003	0.005	0.009
GCPE11	0.003	0.004	0.011
GCPF04	0.005	0.006	0.014
GCPF04_RE_Static_Use_RTK	0.012	0.011	0.067
GCPF05	0.004	0.005	0.011
GCPF06	0.005	0.008	0.015
GCPF07	0.003	0.004	0.013
GCPF08	0.003	0.004	0.010
GCPF09	0.004	0.005	0.011
GCPF10	0.003	0.004	0.008
GCPF11	0.004	0.004	0.011
GCPF12	0.003	0.004	0.011
GCPG05	0.006	0.007	0.015
GCPG06	0.004	0.004	0.014
GCPG07	0.008	0.009	0.046
GCPG08	0.004	0.004	0.010
GCPG09	0.004	0.005	0.010
GCPG10	0.003	0.004	0.010

GCPG11	0.003	0.004	0.008
GCPG12	0.003	0.003	0.009
GCPG122	0.005	0.006	0.012
GCPG13	0.010	0.007	0.011
GCPG13R_Static_Good	0.010	0.014	0.053
GCPH05	0.004	0.005	0.011
GCPH06	0.004	0.006	0.012
GCPH062	0.003	0.004	0.013
GCPH07	0.008	0.010	0.021
GCPH08	0.007	0.008	0.021
GCPH09	0.005	0.007	0.015
GCPH10	0.005	0.007	0.018
GCPH11	0.004	0.006	0.017
GCPH112	0.004	0.005	0.015
GCPH122R	0.005	0.006	0.019
GCPH12R	0.003	0.004	0.014
GCPI05	0.005	0.007	0.015
GCPI06	0.002	0.002	0.008
GCPI07	0.007	0.010	0.022
GCPI08	0.005	0.006	0.017
GCPI09	0.007	0.010	0.022

GCPI10	0.005	0.007	0.017
GCPI11	0.006	0.010	0.021
GCPI12	0.003	0.003	0.013
GCPI12_Static_Get_OPUS	0.008	0.011	0.032
GCPI13	0.011	0.013	0.063
GCPJ05	0.005	0.007	0.014
GCPJ06	0.004	0.006	0.012
GCPJ07	0.003	0.004	0.011
GCPJ08	0.006	0.007	0.017
GCPJ09	0.002	0.002	0.011
GCPJ10	0.005	0.006	0.016
GCPJ11R	0.004	0.005	0.014
GCPJ12	0.003	0.003	0.013
GCPJ13R	0.004	0.004	0.052
GCPK07	0.005	0.006	0.019
GCPK08	0.003	0.005	0.015
GCPK09	0.003	0.004	0.014
GCPK10	0.005	0.009	0.016
GCPK11	0.004	0.005	0.014
GCPK12	0.003	0.004	0.013
GCPK13	0.009	0.012	0.066

GCPL09	0.005	0.006	0.016
GCPL09R	0.004	0.005	0.015
GCPL10	0.005	0.006	0.016
GCPL11	0.003	0.004	0.010
HOTELAM1001	0.005	0.005	0.016
HOTELAM1002	0.005	0.005	0.018
HOTELAM927	0.007	0.006	0.019
HOTELAM928	0.005	0.005	0.013
HOTELAM929	0.004	0.006	0.016
HOTELAM930	0.005	0.004	0.011
HOTELPM1001	0.004	0.004	0.011
HOTELPM1002	0.007	0.008	0.019
HOTELPM927	0.003	0.004	0.011
HOTELPM928	0.008	0.010	0.023
HOTELPM929	0.003	0.005	0.012
HOTELPM930	0.011	0.008	0.023
NVA400	0.005	0.008	0.016
NVAA03	0.004	0.004	0.010
NVAA04	0.006	0.009	0.018
NVAA05	0.004	0.004	0.013
NVAA06	0.005	0.006	0.013

NVAA07	0.003	0.004	0.008
NVAA08	0.004	0.004	0.010
NVAB03	0.003	0.003	0.010
NVAB04	0.004	0.005	0.012
NVAB05	0.004	0.004	0.013
NVAB06	0.003	0.004	0.011
NVAB07	0.003	0.004	0.011
NVAB08	0.003	0.003	0.011
NVAC03	0.005	0.005	0.015
NVAC04	0.003	0.005	0.011
NVAC05	0.003	0.005	0.015
NVAC06	0.003	0.004	0.013
NVAC062	0.003	0.003	0.012
NVAC07	0.004	0.005	0.011
NVAC08	0.004	0.005	0.011
NVAC09	0.004	0.005	0.014
NVAD03	0.003	0.004	0.009
NVAD04	0.002	0.003	0.008
NVAD05	0.004	0.005	0.017
NVAD06	0.004	0.007	0.019
NVAD07	0.003	0.004	0.011

NVAD08	0.005	0.007	0.013
NVAE03	0.003	0.004	0.012
NVAE03_Static_Good	0.013	0.012	0.060
NVAE04	0.003	0.004	0.014
NVAE05	0.005	0.006	0.013
NVAE06	0.003	0.004	0.010
NVAE07	0.002	0.003	0.007
NVAE08	0.003	0.004	0.011
NVAF01	0.005	0.007	0.019
NVAF02	0.004	0.005	0.011
NVAF03	0.003	0.004	0.010
NVAF04	0.003	0.004	0.010
NVAF05	0.003	0.004	0.009
NVAF06	0.003	0.005	0.010
NVAF07	0.005	0.004	0.014
NVAF08	0.004	0.004	0.013
NVAF092	0.005	0.004	0.016
NVAF11	0.003	0.004	0.011
NVAG04	0.004	0.004	0.011
NVAG05	0.003	0.005	0.012
NVAG052	0.003	0.005	0.012

NVAG06	0.004	0.005	0.011
NVAG07	0.003	0.004	0.011
NVAG08	0.004	0.006	0.015
NVAG09	0.003	0.005	0.011
NVAG10	0.003	0.003	0.009
NVAG10_Static_Good	0.009	0.010	0.061
NVAG102	0.002	0.003	0.007
NVAG11	0.003	0.004	0.010
NVAG122	0.003	0.004	0.009
NVAH05	0.003	0.004	0.012
NVAH06	0.003	0.004	0.011
NVAH06R	0.003	0.004	0.009
NVAH07	0.006	0.009	0.016
NVAH08	0.004	0.005	0.011
NVAH082	0.004	0.005	0.011
NVAH09	0.003	0.003	0.008
NVAH10	0.003	0.004	0.009
NVAH102	0.003	0.005	0.011
NVAH11	0.004	0.005	0.017
NVAH112	0.004	0.005	0.015
NVAH12	0.003	0.004	0.010

NVAH13	0.003	0.004	0.010
NVAI05R	0.003	0.004	0.014
NVAI06R	0.004	0.004	0.013
NVAI07	0.004	0.004	0.014
NVAI08	0.003	0.003	0.009
NVAI08_a	0.004	0.006	0.012
NVAI09	0.019	0.005	0.020
NVAI09_Static_Good	0.012	0.012	0.039
NVAI10	0.003	0.004	0.010
NVAI11	0.004	0.007	0.014
NVAI12	0.004	0.005	0.011
NVAI122	0.005	0.007	0.016
NVAI13	0.008	0.006	0.022
NVAI13R	0.002	0.003	0.008
NVAJ06	0.004	0.005	0.011
NVAJ06_a	0.005	0.005	0.016
NVAJ07	0.004	0.004	0.010
NVAJ08	0.006	0.007	0.019
NVAJ09	0.007	0.009	0.021
NVAJ10	0.003	0.004	0.013
NVAJ11	0.005	0.007	0.019

NVAJ12	0.004	0.006	0.016
NVAJ122	0.006	0.008	0.018
NVAJ13R	0.004	0.005	0.017
NVAJ14R	0.004	0.005	0.016
NVAK06	0.002	0.003	0.008
NVAK07	0.005	0.007	0.015
NVAK08	0.004	0.005	0.014
NVAK09	0.006	0.008	0.020
NVAK10	0.006	0.008	0.018
NVAK11	0.004	0.006	0.015
NVAK12	0.007	0.011	0.022
NVAK13	0.004	0.004	0.014
NVAK14R	0.007	0.011	0.065
NVAL06	0.004	0.005	0.013
NVAL07	0.005	0.007	0.015
NVAL08	0.007	0.009	0.019
NVAL09	0.004	0.004	0.014
NVAL10	0.004	0.005	0.016
NVAL11	0.005	0.006	0.017
NVAL12_R	0.004	0.005	0.015
NVAL13	0.005	0.006	0.018

NVAL14	0.007	0.007	0.018
NVAM06	0.005	0.008	0.016
NVAM07	0.004	0.005	0.014
NVAM08	0.003	0.004	0.013
NVAM09	0.002	0.002	0.012
NVAM10	0.004	0.005	0.016
NVAM11	0.004	0.006	0.016
NVAM12R	0.004	0.005	0.015
NVAM13	0.004	0.004	0.014
NVAM142R	0.009	0.012	0.070
NVAM14R	0.006	0.007	0.068
NVAN07R	0.005	0.007	0.019
NVAN08R	0.007	0.009	0.021
NVAN09	0.005	0.006	0.018
NVAN10	0.005	0.006	0.016
NVAN102	0.005	0.007	0.016
NVAN11	0.003	0.007	0.014
NVAN12R	0.004	0.005	0.011
NVAN13R	0.004	0.004	0.060
NVAN14	0.006	0.006	0.013
NVAO10R	0.006	0.007	0.024

NVAO11	0.003	0.004	0.011
PLT001	0.003	0.003	0.009
PLT001_alt	0.003	0.005	0.011
PLT002	0.004	0.004	0.012
PLT002_alt	0.004	0.004	0.015
PLT003	0.003	0.003	0.010
PLT004	0.003	0.004	0.012
PLT005	0.005	0.006	0.015
PLT005_alt	0.003	0.003	0.015
PLT006	0.003	0.004	0.010
PLT007	0.004	0.004	0.012
PLT008	0.004	0.005	0.013
PLT009	0.004	0.004	0.014
PLT010	0.003	0.005	0.009
PLT010_alt	0.003	0.005	0.010
PLT011	0.003	0.003	0.008
PLT011_alt	0.004	0.004	0.011
PLT012	0.004	0.004	0.010
PLT013	0.004	0.004	0.012
PLT014	0.004	0.004	0.010
PLT015	0.003	0.005	0.009

PLT016	0.004	0.004	0.010
PLT017	0.004	0.004	0.012
PLT018	0.004	0.004	0.010
PLT019	0.005	0.007	0.014
PLT020	0.004	0.006	0.011
PVA001	0.005	0.005	0.016
PVA002	0.003	0.004	0.009
PVA003	0.006	0.007	0.020
PVA005	0.006	0.006	0.019
PVA005_ALT	0.004	0.004	0.012
RTN_AZAJ	0.001	0.001	0.005
RTN_AZCG	0.001	0.001	0.011
RTN_AZCK	0.001	0.001	0.006
RTN_AZGE	0.001	0.001	0.005
RTN_AZMA	0.001	0.001	0.005
RTN_AZPX	0.001	0.001	0.005
RTN_AZS1	0.001	0.001	0.005
RTN_AZTH	0.001	0.001	0.006
RTN_AZWB	0.001	0.001	0.006
RTN_COOL	0.001	0.001	0.010
VVA_ALT_sm1	0.004	0.006	0.012

VVA_ALT_sm2	0.005	0.006	0.013
VVA_ALT_sm3	0.004	0.006	0.015
VVA_ALT_sm4	0.005	0.006	0.019
VVA_ALT_sm6	0.005	0.006	0.013
VVA005	0.004	0.007	0.012
VVAA03	0.004	0.005	0.011
VVAA04	0.003	0.005	0.012
VVAA06	0.005	0.008	0.015
VVAA07	0.004	0.006	0.012
VVAA08	0.009	0.012	0.022
VVAB03	0.004	0.004	0.010
VVAB04	0.005	0.007	0.018
VVAB05	0.004	0.004	0.011
VVAB06	0.004	0.005	0.018
VVAB07	0.005	0.006	0.017
VVAC04	0.003	0.004	0.011
VVAC042	0.004	0.005	0.012
VVAC06	0.007	0.008	0.022
VVAC07	0.005	0.008	0.015
VVAC08	0.005	0.005	0.014
VVAD03	0.003	0.004	0.009

VVAD04	0.003	0.004	0.013
VVAD05	0.004	0.006	0.012
VVAD052	0.004	0.004	0.013
VVAD06	0.003	0.004	0.011
VVAD07	0.004	0.007	0.017
VVAD08	0.003	0.005	0.012
VVAD082	0.006	0.007	0.019
VVAE01	0.004	0.011	0.016
VVAE012	0.004	0.005	0.013
VVAE02	0.004	0.005	0.011
VVAE03	0.005	0.006	0.018
VVAE04	0.002	0.002	0.008
VVAE07	0.004	0.006	0.016
VVAE072	0.005	0.007	0.013
VVAE073	0.005	0.007	0.014
VVAF01	0.007	0.006	0.048
VVAF02	0.008	0.006	0.021
VVAF022	0.004	0.005	0.012
VVAF032	0.003	0.003	0.010
VVAF06	0.004	0.006	0.011
VVAF062	0.004	0.006	0.017

VVAF063	0.004	0.004	0.011
VVAF07	0.004	0.006	0.014
VVAF08	0.007	0.010	0.019
VVAF09	0.004	0.005	0.011
VVAF10	0.002	0.004	0.007
VVAF11	0.004	0.004	0.011
VVAF112	0.005	0.008	0.015
VVAG05	0.006	0.006	0.014
VVAG06	0.004	0.006	0.011
VVAG062	0.004	0.010	0.012
VVAG07	0.007	0.010	0.014
VVAG08	0.005	0.008	0.015
VVAG09	0.006	0.007	0.017
VVAG092	0.003	0.003	0.009
VVAG10	0.005	0.007	0.014
VVAH05	0.004	0.005	0.017
VVAH06	0.004	0.005	0.014
VVAH07	0.004	0.005	0.011
VVAH08	0.004	0.005	0.010
VVAH09	0.004	0.004	0.011
VVAH10	0.005	0.007	0.015

VVAH102	0.005	0.007	0.015
VVAH11	0.004	0.006	0.012
VVAH12	0.002	0.003	0.008
VVAI05	0.004	0.004	0.012
VVAI06	0.003	0.004	0.010
VVAI07	0.005	0.007	0.014
VVAI08	0.005	0.006	0.013
VVAI09	0.004	0.005	0.014
VVAI10	0.004	0.006	0.017
VVAI11	0.003	0.004	0.013
VVAI12	0.004	0.005	0.018
VVAI13	0.010	0.011	0.064
VVAJ05	0.005	0.005	0.012
VVAJ052	0.003	0.003	0.009
VVAJ06	0.004	0.005	0.012
VVAJ07	0.004	0.005	0.013
VVAJ08	0.005	0.007	0.017
VVAJ09	0.007	0.009	0.021
VVAJ10	0.006	0.009	0.018
VVAJ11	0.004	0.004	0.014
VVAJ12	0.013	0.013	0.071

VVAK05	0.005	0.007	0.015
VVAK06	0.004	0.005	0.014
VVAK07	0.006	0.007	0.019
VVAK08	0.003	0.003	0.013
VVAK09	0.005	0.006	0.019
VVAK10	0.004	0.005	0.016
VVAK11	0.007	0.008	0.021
VVAK12	0.004	0.005	0.014
VVAL06	0.002	0.003	0.010
VVAL07	0.008	0.010	0.022
VVAL08	0.004	0.005	0.016
VVAL09	0.004	0.005	0.014
VVAL092	0.004	0.005	0.014
VVAL10	0.003	0.005	0.013
VVAL11	0.003	0.004	0.007
VVAL12	0.004	0.005	0.015
VVAL13	0.004	0.005	0.011
VVAM092	0.004	0.005	0.017
VVAM10	0.003	0.004	0.012

Error Ellipse Components

Point ID	Semi-major axis (Meter)	Semi-minor axis (Meter)	Azimuth
AJ3644_Static_Get_DS/OPUS	0.012	0.009	178°
AJ3669	0.012	0.009	176°
AJ3669_Static_Good	0.012	0.010	168°
AJ3699	0.005	0.004	154°
AJ3699_Static_Good	0.018	0.012	163°
AJ3867	0.006	0.005	15°
AJ3867_Static_Ok	0.015	0.011	135°
azmp_NAD83(2011)_Epoch_2010_DS	0.001	0.001	163°
azst_NAD83(2011)_Epoch_2010_DS	0.001	0.001	143°
DA0099	0.006	0.004	177°
DA0099_Static	0.009	0.006	114°
DU0672	0.006	0.005	18°
DU0672_Static	0.011	0.008	177°
DU1317	0.003	0.002	151°
DU1317_Static_Good	0.012	0.011	126°
GCP1072	0.008	0.005	170°
GCP409	0.012	0.010	19°
GCPA03	0.005	0.004	9°

GCPA04	0.006	0.004	8°
GCPA05	0.008	0.006	7°
GCPA06	0.006	0.004	19°
GCPA07	0.005	0.004	5°
GCPA08	0.006	0.004	158°
GCPB03	0.005	0.004	132°
GCPB04	0.006	0.005	169°
GCPB05	0.005	0.004	167°
GCPB06	0.008	0.007	5°
GCPB07	0.005	0.004	16°
GCPB072	0.005	0.004	29°
GCPB08	0.007	0.006	179°
GCPC03	0.005	0.004	9°
GCPC04	0.006	0.005	0°
GCPC05	0.005	0.004	174°
GCPC06	0.008	0.006	13°
GCPC07	0.006	0.004	176°
GCPC08	0.007	0.006	17°
GCPD03	0.004	0.004	174°
GCPD04	0.005	0.004	1°
GCPD05	0.007	0.005	11°

GCPD06	0.004	0.003	8°
GCPD08	0.006	0.005	11°
GCPD09	0.006	0.005	13°
GCPE01	0.008	0.006	171°
GCPE02	0.006	0.005	4°
GCPE03	0.005	0.004	4°
GCPE04	0.004	0.003	178°
GCPE05	0.008	0.006	176°
GCPE06	0.006	0.004	172°
GCPE07	0.005	0.004	127°
GCPE08	0.006	0.005	109°
GCPE09	0.007	0.004	178°
GCPE10	0.006	0.004	3°
GCPE11	0.005	0.004	2°
GCPF04	0.007	0.007	164°
GCPF04_RE_Static_Use_RTK	0.017	0.013	52°
GCPF05	0.006	0.005	169°
GCPF06	0.010	0.006	178°
GCPF07	0.005	0.004	2°
GCPF08	0.006	0.004	171°
GCPF09	0.006	0.004	2°

GCPF10	0.005	0.004	173°
GCPF11	0.005	0.004	178°
GCPF12	0.005	0.004	172°
GCPG05	0.009	0.007	170°
GCPG06	0.006	0.004	141°
GCPG07	0.011	0.010	18°
GCPG08	0.006	0.004	10°
GCPG09	0.006	0.004	9°
GCPG10	0.005	0.004	13°
GCPG11	0.004	0.003	172°
GCPG12	0.004	0.004	10°
GCPG122	0.008	0.006	7°
GCPG13	0.014	0.006	123°
GCPG13R_Static_Good	0.017	0.012	1°
GCPH05	0.007	0.005	175°
GCPH06	0.007	0.005	12°
GCPH062	0.005	0.004	174°
GCPH07	0.012	0.010	16°
GCPH08	0.011	0.008	6°
GCPH09	0.008	0.007	9°
GCPH10	0.009	0.006	172°

GCPH11	0.008	0.005	171°
GCPH112	0.007	0.004	170°
GCPH122R	0.007	0.006	13°
GCPH12R	0.005	0.004	14°
GCPI05	0.008	0.006	167°
GCPI06	0.003	0.003	161°
GCPI07	0.012	0.009	173°
GCPI08	0.008	0.006	175°
GCPI09	0.013	0.009	5°
GCPI10	0.009	0.006	174°
GCPI11	0.013	0.008	178°
GCPI12	0.004	0.003	11°
GCPI12_Static_Get_OPUS	0.014	0.010	10°
GCPI13	0.016	0.013	17°
GCPJ05	0.008	0.006	7°
GCPJ06	0.007	0.006	172°
GCPJ07	0.005	0.004	11°
GCPJ08	0.009	0.007	176°
GCPJ09	0.003	0.002	8°
GCPJ10	0.008	0.006	16°
GCPJ11R	0.006	0.004	3°

GCPJ12	0.004	0.003	171°
GCPJ13R	0.005	0.005	55°
GCPK07	0.008	0.006	177°
GCPK08	0.006	0.004	174°
GCPK09	0.005	0.004	177°
GCPK10	0.011	0.006	16°
GCPK11	0.007	0.005	169°
GCPK12	0.005	0.004	166°
GCPK13	0.015	0.011	180°
GCPL09	0.008	0.006	12°
GCPL09R	0.006	0.005	14°
GCPL10	0.007	0.006	12°
GCPL11	0.005	0.004	167°
HOTELAM1001	0.006	0.006	8°
HOTELAM1002	0.007	0.006	12°
HOTELAM927	0.010	0.006	66°
HOTELAM928	0.007	0.005	44°
HOTELAM929	0.008	0.005	16°
HOTELAM930	0.006	0.005	53°
HOTELPM1001	0.006	0.004	15°
HOTELPM1002	0.011	0.009	15°

HOTELPM927	0.005	0.004	11°
HOTELPM928	0.012	0.010	173°
HOTELPM929	0.006	0.004	178°
HOTELPM930	0.013	0.010	105°
NVA400	0.010	0.006	173°
NVAA03	0.005	0.004	10°
NVAA04	0.011	0.007	11°
NVAA05	0.005	0.005	18°
NVAA06	0.008	0.006	8°
NVAA07	0.004	0.003	0°
NVAA08	0.005	0.004	155°
NVAB03	0.004	0.004	140°
NVAB04	0.006	0.005	170°
NVAB05	0.005	0.005	164°
NVAB06	0.005	0.004	167°
NVAB07	0.005	0.004	29°
NVAB08	0.004	0.004	6°
NVAC03	0.006	0.006	129°
NVAC04	0.006	0.004	172°
NVAC05	0.006	0.004	174°
NVAC06	0.005	0.004	149°

NVAC062	0.005	0.004	143°
NVAC07	0.006	0.005	166°
NVAC08	0.006	0.005	9°
NVAC09	0.006	0.005	171°
NVAD03	0.005	0.004	7°
NVAD04	0.004	0.003	177°
NVAD05	0.007	0.005	0°
NVAD06	0.008	0.005	2°
NVAD07	0.005	0.004	16°
NVAD08	0.009	0.006	174°
NVAE03	0.005	0.004	160°
NVAE03_Static_Good	0.020	0.011	130°
NVAE04	0.006	0.004	7°
NVAE05	0.007	0.006	9°
NVAE06	0.005	0.004	1°
NVAE07	0.003	0.003	6°
NVAE08	0.004	0.004	172°
NVAF01	0.008	0.006	177°
NVAF02	0.006	0.005	4°
NVAF03	0.005	0.004	5°
NVAF04	0.005	0.004	176°

NVAF05	0.005	0.004	172°
NVAF06	0.006	0.004	174°
NVAF07	0.007	0.005	127°
NVAF08	0.005	0.005	132°
NVAF092	0.006	0.005	103°
NVAF11	0.005	0.004	3°
NVAG04	0.006	0.005	163°
NVAG05	0.006	0.004	2°
NVAG052	0.006	0.004	3°
NVAG06	0.006	0.004	11°
NVAG07	0.005	0.004	14°
NVAG08	0.008	0.005	171°
NVAG09	0.006	0.004	1°
NVAG10	0.004	0.003	179°
NVAG10_Static_Good	0.013	0.011	157°
NVAG102	0.004	0.003	174°
NVAG11	0.005	0.004	176°
NVAG122	0.005	0.004	177°
NVAH05	0.005	0.004	15°
NVAH06	0.005	0.004	179°
NVAH06R	0.005	0.003	168°

NVAH07	0.011	0.007	4°
NVAH08	0.006	0.005	8°
NVAH082	0.006	0.005	5°
NVAH09	0.004	0.003	168°
NVAH10	0.005	0.004	1°
NVAH102	0.006	0.004	3°
NVAH11	0.007	0.005	174°
NVAH112	0.006	0.005	177°
NVAH12	0.005	0.004	173°
NVAH13	0.005	0.004	8°
NVAI05R	0.006	0.004	169°
NVAI06R	0.006	0.004	141°
NVAI07	0.006	0.005	140°
NVAI08	0.004	0.003	3°
NVAI08_a	0.007	0.005	180°
NVAI09	0.023	0.006	92°
NVAI09_Static_Good	0.017	0.013	46°
NVAI10	0.005	0.004	13°
NVAI11	0.009	0.006	173°
NVAI12	0.007	0.005	7°
NVAI122	0.009	0.006	2°

NVAI13	0.011	0.007	121°
NVAI13R	0.004	0.003	3°
NVAJ06	0.007	0.005	177°
NVAJ06_a	0.006	0.006	137°
NVAJ07	0.006	0.004	15°
NVAJ08	0.009	0.007	1°
NVAJ09	0.012	0.009	8°
NVAJ10	0.005	0.004	173°
NVAJ11	0.009	0.006	171°
NVAJ12	0.008	0.006	171°
NVAJ122	0.010	0.007	170°
NVAJ13R	0.007	0.005	14°
NVAJ14R	0.006	0.005	144°
NVAK06	0.003	0.003	161°
NVAK07	0.008	0.006	170°
NVAK08	0.007	0.005	169°
NVAK09	0.010	0.007	174°
NVAK10	0.010	0.007	4°
NVAK11	0.008	0.005	175°
NVAK12	0.014	0.008	179°
NVAK13	0.005	0.004	28°

NVAK14R	0.014	0.009	18°
NVAL06	0.007	0.005	167°
NVAL07	0.009	0.007	173°
NVAL08	0.012	0.009	4°
NVAL09	0.005	0.005	33°
NVAL10	0.006	0.005	172°
NVAL11	0.008	0.006	172°
NVAL12_R	0.007	0.005	2°
NVAL13	0.008	0.007	1°
NVAL14	0.009	0.008	66°
NVAM06	0.010	0.007	5°
NVAM07	0.007	0.005	14°
NVAM08	0.005	0.004	173°
NVAM09	0.003	0.003	8°
NVAM10	0.006	0.005	7°
NVAM11	0.007	0.005	15°
NVAM12R	0.006	0.005	12°
NVAM13	0.005	0.005	167°
NVAM142R	0.015	0.010	161°
NVAM14R	0.009	0.008	172°
NVAN07R	0.009	0.006	176°

NVAN08R	0.011	0.009	0°
NVAN09	0.007	0.006	1°
NVAN10	0.008	0.006	6°
NVAN102	0.008	0.006	9°
NVAN11	0.008	0.004	179°
NVAN12R	0.007	0.004	1°
NVAN13R	0.006	0.005	140°
NVAN14	0.008	0.007	64°
NVAO10R	0.009	0.008	12°
NVAO11	0.005	0.004	169°
PLT001	0.004	0.003	1°
PLT001_alt	0.006	0.004	3°
PLT002	0.006	0.005	24°
PLT002_alt	0.006	0.005	142°
PLT003	0.004	0.004	11°
PLT004	0.005	0.004	165°
PLT005	0.008	0.005	28°
PLT005_alt	0.004	0.003	27°
PLT006	0.005	0.004	11°
PLT007	0.005	0.004	29°
PLT008	0.006	0.005	157°

PLT009	0.005	0.005	131°
PLT010	0.006	0.004	11°
PLT010_alt	0.006	0.004	9°
PLT011	0.004	0.003	176°
PLT011_alt	0.005	0.005	8°
PLT012	0.005	0.005	17°
PLT013	0.005	0.004	128°
PLT014	0.005	0.005	23°
PLT015	0.006	0.004	14°
PLT016	0.005	0.004	148°
PLT017	0.005	0.004	52°
PLT018	0.005	0.005	32°
PLT019	0.009	0.007	0°
PLT020	0.008	0.006	177°
PVA001	0.006	0.005	150°
PVA002	0.005	0.004	162°
PVA003	0.009	0.007	164°
PVA005	0.009	0.007	126°
PVA005_ALT	0.005	0.004	130°
RTN_AZAJ	0.001	0.001	19°
RTN_AZCG	0.002	0.001	155°

RTN_AZCK	0.002	0.001	162°
RTN_AZGE	0.001	0.001	134°
RTN_AZMA	0.001	0.001	151°
RTN_AZPX	0.001	0.001	158°
RTN_AZS1	0.001	0.001	141°
RTN_AZTH	0.001	0.001	114°
RTN_AZWB	0.001	0.001	132°
RTN_COOL	0.002	0.001	131°
VVA_ALT_sm1	0.007	0.005	176°
VVA_ALT_sm2	0.008	0.006	165°
VVA_ALT_sm3	0.007	0.005	177°
VVA_ALT_sm4	0.008	0.006	6°
VVA_ALT_sm6	0.007	0.006	171°
VVA005	0.009	0.005	167°
VVAA03	0.007	0.005	11°
VVAA04	0.006	0.004	5°
VVAA06	0.010	0.006	14°
VVAA07	0.008	0.005	5°
VVAA08	0.015	0.010	157°
VVAB03	0.005	0.004	144°
VVAB04	0.009	0.006	167°

VVAB05	0.006	0.005	165°
VVAB06	0.007	0.005	5°
VVAB07	0.008	0.007	179°
VVAC04	0.005	0.004	175°
VVAC042	0.006	0.005	5°
VVAC06	0.010	0.008	11°
VVAC07	0.010	0.006	176°
VVAC08	0.007	0.006	30°
VVAD03	0.004	0.004	2°
VVAD04	0.005	0.004	169°
VVAD05	0.008	0.005	5°
VVAD052	0.006	0.004	156°
VVAD06	0.005	0.003	171°
VVAD07	0.009	0.006	178°
VVAD08	0.006	0.004	173°
VVAD082	0.009	0.007	18°
VVAE01	0.014	0.004	164°
VVAE012	0.007	0.005	5°
VVAE02	0.006	0.005	7°
VVAE03	0.008	0.006	2°
VVAE04	0.003	0.003	160°

VVAE07	0.008	0.005	1°
VVAE072	0.008	0.006	180°
VVAE073	0.009	0.006	177°
VVAF01	0.009	0.008	103°
VVAF02	0.010	0.007	57°
VVAF022	0.006	0.005	17°
VVAF032	0.005	0.004	115°
VVAF06	0.007	0.005	163°
VVAF062	0.007	0.005	162°
VVAF063	0.005	0.004	164°
VVAF07	0.007	0.005	169°
VVAF08	0.012	0.008	166°
VVAF09	0.006	0.004	5°
VVAF10	0.005	0.003	173°
VVAF11	0.006	0.005	165°
VVAF112	0.010	0.005	163°
VVAG05	0.008	0.007	27°
VVAG06	0.008	0.005	178°
VVAG062	0.013	0.005	8°
VVAG07	0.014	0.005	30°
VVAG08	0.010	0.006	167°

VVAG09	0.009	0.007	179°
VVAG092	0.004	0.003	10°
VVAG10	0.008	0.006	178°
VVAH05	0.006	0.005	170°
VVAH06	0.006	0.005	140°
VVAH07	0.007	0.005	4°
VVAH08	0.006	0.005	179°
VVAH09	0.006	0.005	12°
VVAH10	0.009	0.007	177°
VVAH102	0.008	0.007	12°
VVAH11	0.007	0.005	10°
VVAH12	0.004	0.003	1°
VVAI05	0.005	0.004	174°
VVAI06	0.005	0.004	179°
VVAI07	0.008	0.007	9°
VVAI08	0.007	0.006	10°
VVAI09	0.006	0.005	175°
VVAI10	0.007	0.005	171°
VVAI11	0.005	0.004	178°
VVAI12	0.007	0.006	5°
VVAI13	0.014	0.012	3°

VVAJ05	0.006	0.006	86°
VVAJ052	0.004	0.004	3°
VVAJ06	0.007	0.005	172°
VVAJ07	0.007	0.005	167°
VVAJ08	0.008	0.006	174°
VVAJ09	0.011	0.008	8°
VVAJ10	0.011	0.008	173°
VVAJ11	0.006	0.005	16°
VVAJ12	0.018	0.014	46°
VVAK05	0.009	0.006	13°
VVAK06	0.006	0.004	8°
VVAK07	0.009	0.007	5°
VVAK08	0.004	0.003	12°
VVAK09	0.007	0.006	180°
VVAK10	0.007	0.005	15°
VVAK11	0.010	0.008	23°
VVAK12	0.006	0.005	173°
VVAL06	0.004	0.003	177°
VVAL07	0.013	0.010	5°
VVAL08	0.006	0.005	178°
VVAL09	0.006	0.005	10°

VVAL092	0.006	0.005	9°
VVAL10	0.006	0.004	177°
VVAL11	0.006	0.004	7°
VVAL12	0.006	0.005	3°
VVAL13	0.006	0.004	11°
VVAM092	0.006	0.005	5°
VVAM10	0.005	0.004	166°

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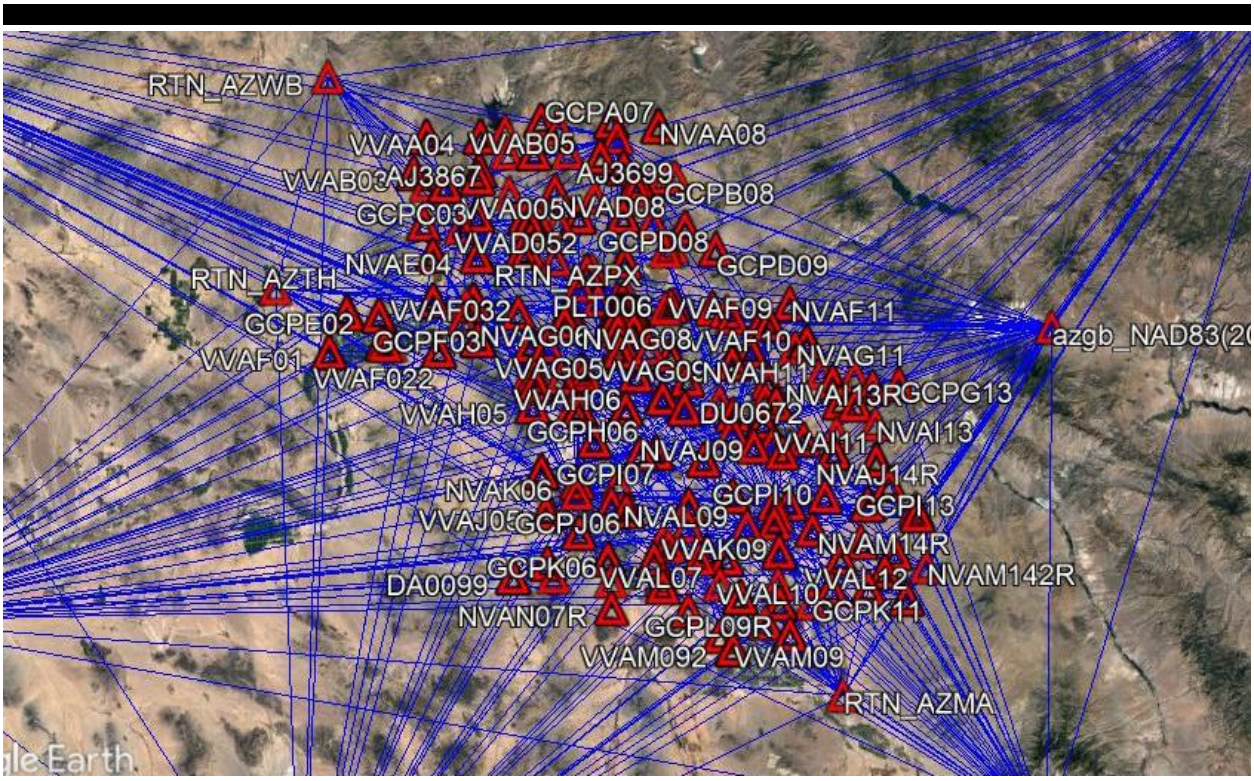
Project File Data		Coordinate System	
Name:	6367_VeriDaas_Greater_Phoenix_Lidar_v8.vce	Name:	World wide/UTM
Size:	2 MB	Datum:	ITRF
Modified:	10/18/2020 4:21:15 PM (UTC:-6)	Zone:	12 North
Time zone:	Mountain Standard Time	Geoid:	GEOID12B (Conus)



Network Adjustment Report

Adjustment Settings

Set-Up Errors

GNSS

Error in Height of Antenna: 0.000 m

Centering Error: 0.000 m

Covariance Display

Horizontal:

Propagated Linear Error [E]: U.S.

Constant Term [C]: 0.000 m

Scale on Linear Error [S]: 1.960

Three-Dimensional

Propagated Linear Error [E]: U.S.

Constant Term [C]: 0.000 m

Scale on Linear Error [S]: 1.960

Adjustment Statistics

Number of Iterations for Successful Adjustment: 2

Network Reference Factor: 1.00

Chi Square Test (95%): Passed

Precision Confidence Level: 95%

Degrees of Freedom: 2102

Post Processed Vector Statistics

Reference Factor: 1.00

Redundancy Number: 646.32

A Priori Scalar: 1.49

RTK Vector Statistics

Reference Factor: 0.99

Redundancy Number: 1455.68

A Priori Scalar: 0.49

Control Coordinate Comparisons

Values shown are control coordinates minus adjusted coordinates.

Point ID	ΔEasting (Meter)	ΔNorthing (Meter)	ΔElevation (Meter)	ΔHeight (Meter)
azmp_NAD83(2011)_Epoch_2010_DS	-0.004	-0.013	?	-0.010
azst_NAD83(2011)_Epoch_2010_DS	-0.008	0.000	?	0.014

Control Point Constraints

Point ID	Type	East σ (Meter)	North σ (Meter)	Height σ (Meter)
azbr_NAD83(2011)_Epoch_2010_DS	Global	Fixed	Fixed	Fixed
azgb_NAD83(2011)_Epoch_2010_DS	Global	Fixed	Fixed	Fixed
p001_NAD83(2011)_Epoch_2010_DS	Global	Fixed	Fixed	Fixed
p003_NAD83(2011)_Epoch_2010_DS	Global	Fixed	Fixed	Fixed
p015_NAD83(2011)_Epoch_2010_DS	Global	Fixed	Fixed	Fixed
p623_NAD83(2011)_Epoch_2010_DS	Global	Fixed	Fixed	Fixed

Fixed = 0.000001(Meter)

Adjusted Grid Coordinates

Point ID	Easting Error (Meter)	Northing Error (Meter)	Elevation Error (Meter)
AJ3644_Static_Get_DS/OPUS	0.007	0.009	0.058
AJ3669	0.007	0.010	0.019
AJ3669_Static_Good	0.008	0.010	0.051
AJ3699	0.003	0.004	0.011
AJ3699_Static_Good	0.010	0.014	0.052
AJ3867	0.004	0.005	0.017

AJ3867_Static_Ok	0.011	0.011	0.063
azmp_NAD83(2011)_Epoch_2010_DS	0.001	0.001	0.005
azst_NAD83(2011)_Epoch_2010_DS	0.001	0.001	0.004
DA0099	0.003	0.005	0.010
DA0099_Static	0.007	0.005	0.053
DU0672	0.004	0.005	0.018
DU0672_Static	0.007	0.009	0.022
DU1317	0.002	0.002	0.006
DU1317_Static_Good	0.010	0.009	0.068
GCP1072	0.004	0.006	0.015
GCP409	0.008	0.009	0.020
GCPA03	0.003	0.004	0.010
GCPA04	0.003	0.004	0.011
GCPA05	0.005	0.007	0.013
GCPA06	0.004	0.005	0.013
GCPA07	0.003	0.004	0.009
GCPA08	0.004	0.004	0.010
GCPB03	0.004	0.004	0.011
GCPB04	0.004	0.005	0.013
GCPB05	0.003	0.004	0.011
GCPB06	0.005	0.006	0.018

GCPB07	0.003	0.004	0.012
GCPB072	0.003	0.004	0.010
GCPB08	0.004	0.006	0.014
GCPC03	0.003	0.004	0.009
GCPC04	0.004	0.005	0.013
GCPC05	0.003	0.004	0.012
GCPC06	0.005	0.006	0.015
GCPC07	0.003	0.005	0.010
GCPC08	0.005	0.005	0.013
GCPD03	0.003	0.004	0.009
GCPD04	0.003	0.004	0.013
GCPD05	0.004	0.005	0.012
GCPD06	0.002	0.003	0.008
GCPD08	0.004	0.005	0.015
GCPD09	0.004	0.005	0.012
GCPE01	0.005	0.006	0.014
GCPE02	0.004	0.005	0.011
GCPE03	0.003	0.004	0.010
GCPE04	0.002	0.003	0.007
GCPE05	0.005	0.007	0.013
GCPE06	0.003	0.005	0.010

GCPE07	0.004	0.004	0.013
GCPE08	0.005	0.004	0.017
GCPE09	0.004	0.006	0.014
GCPE10	0.003	0.005	0.009
GCPE11	0.003	0.004	0.011
GCPF04	0.005	0.006	0.014
GCPF04_RE_Static_Use_RTK	0.012	0.011	0.067
GCPF05	0.004	0.005	0.011
GCPF06	0.005	0.008	0.015
GCPF07	0.003	0.004	0.013
GCPF08	0.003	0.004	0.010
GCPF09	0.004	0.005	0.011
GCPF10	0.003	0.004	0.008
GCPF11	0.004	0.004	0.011
GCPF12	0.003	0.004	0.011
GCPG05	0.006	0.007	0.015
GCPG06	0.004	0.004	0.014
GCPG07	0.008	0.009	0.046
GCPG08	0.004	0.004	0.010
GCPG09	0.004	0.005	0.010
GCPG10	0.003	0.004	0.010

GCPG11	0.003	0.004	0.008
GCPG12	0.003	0.003	0.009
GCPG122	0.005	0.006	0.012
GCPG13	0.010	0.007	0.011
GCPG13R_Static_Good	0.010	0.014	0.053
GCPH05	0.004	0.005	0.011
GCPH06	0.004	0.006	0.012
GCPH062	0.003	0.004	0.013
GCPH07	0.008	0.010	0.021
GCPH08	0.007	0.008	0.021
GCPH09	0.005	0.007	0.015
GCPH10	0.005	0.007	0.018
GCPH11	0.004	0.006	0.017
GCPH112	0.004	0.005	0.015
GCPH122R	0.005	0.006	0.019
GCPH12R	0.003	0.004	0.014
GCPI05	0.005	0.007	0.015
GCPI06	0.002	0.002	0.008
GCPI07	0.007	0.010	0.022
GCPI08	0.005	0.006	0.017
GCPI09	0.007	0.010	0.022

GCPI10	0.005	0.007	0.017
GCPI11	0.006	0.010	0.021
GCPI12	0.003	0.003	0.013
GCPI12_Static_Get_OPUS	0.008	0.011	0.032
GCPI13	0.011	0.013	0.063
GCPJ05	0.005	0.007	0.014
GCPJ06	0.004	0.006	0.012
GCPJ07	0.003	0.004	0.011
GCPJ08	0.006	0.007	0.017
GCPJ09	0.002	0.002	0.011
GCPJ10	0.005	0.006	0.016
GCPJ11R	0.004	0.005	0.014
GCPJ12	0.003	0.003	0.013
GCPJ13R	0.004	0.004	0.052
GCPK07	0.005	0.006	0.019
GCPK08	0.003	0.005	0.015
GCPK09	0.003	0.004	0.014
GCPK10	0.005	0.009	0.016
GCPK11	0.004	0.005	0.014
GCPK12	0.003	0.004	0.013
GCPK13	0.009	0.012	0.066

GCPL09	0.005	0.006	0.016
GCPL09R	0.004	0.005	0.015
GCPL10	0.005	0.006	0.016
GCPL11	0.003	0.004	0.010
HOTELAM1001	0.005	0.005	0.016
HOTELAM1002	0.005	0.005	0.018
HOTELAM927	0.007	0.006	0.019
HOTELAM928	0.005	0.005	0.013
HOTELAM929	0.004	0.006	0.016
HOTELAM930	0.005	0.004	0.011
HOTELPM1001	0.004	0.004	0.011
HOTELPM1002	0.007	0.008	0.019
HOTELPM927	0.003	0.004	0.011
HOTELPM928	0.008	0.010	0.023
HOTELPM929	0.003	0.005	0.012
HOTELPM930	0.011	0.008	0.023
NVA400	0.005	0.008	0.016
NVAA03	0.004	0.004	0.010
NVAA04	0.006	0.009	0.018
NVAA05	0.004	0.004	0.013
NVAA06	0.005	0.006	0.013

NVAA07	0.003	0.004	0.008
NVAA08	0.004	0.004	0.010
NVAB03	0.003	0.003	0.010
NVAB04	0.004	0.005	0.012
NVAB05	0.004	0.004	0.013
NVAB06	0.003	0.004	0.011
NVAB07	0.003	0.004	0.011
NVAB08	0.003	0.003	0.011
NVAC03	0.005	0.005	0.015
NVAC04	0.003	0.005	0.011
NVAC05	0.003	0.005	0.015
NVAC06	0.003	0.004	0.013
NVAC062	0.003	0.003	0.012
NVAC07	0.004	0.005	0.011
NVAC08	0.004	0.005	0.011
NVAC09	0.004	0.005	0.014
NVAD03	0.003	0.004	0.009
NVAD04	0.002	0.003	0.008
NVAD05	0.004	0.005	0.017
NVAD06	0.004	0.007	0.019
NVAD07	0.003	0.004	0.011

NVAD08	0.005	0.007	0.013
NVAE03	0.003	0.004	0.012
NVAE03_Static_Good	0.013	0.012	0.060
NVAE04	0.003	0.004	0.014
NVAE05	0.005	0.006	0.013
NVAE06	0.003	0.004	0.010
NVAE07	0.002	0.003	0.007
NVAE08	0.003	0.004	0.011
NVAF01	0.005	0.007	0.019
NVAF02	0.004	0.005	0.011
NVAF03	0.003	0.004	0.010
NVAF04	0.003	0.004	0.010
NVAF05	0.003	0.004	0.009
NVAF06	0.003	0.005	0.010
NVAF07	0.005	0.004	0.014
NVAF08	0.004	0.004	0.013
NVAF092	0.005	0.004	0.016
NVAF11	0.003	0.004	0.011
NVAG04	0.004	0.004	0.011
NVAG05	0.003	0.005	0.012
NVAG052	0.003	0.005	0.012

NVAG06	0.004	0.005	0.011
NVAG07	0.003	0.004	0.011
NVAG08	0.004	0.006	0.015
NVAG09	0.003	0.005	0.011
NVAG10	0.003	0.003	0.009
NVAG10_Static_Good	0.009	0.010	0.061
NVAG102	0.002	0.003	0.007
NVAG11	0.003	0.004	0.010
NVAG122	0.003	0.004	0.009
NVAH05	0.003	0.004	0.012
NVAH06	0.003	0.004	0.011
NVAH06R	0.003	0.004	0.009
NVAH07	0.006	0.009	0.016
NVAH08	0.004	0.005	0.011
NVAH082	0.004	0.005	0.011
NVAH09	0.003	0.003	0.008
NVAH10	0.003	0.004	0.009
NVAH102	0.003	0.005	0.011
NVAH11	0.004	0.005	0.017
NVAH112	0.004	0.005	0.015
NVAH12	0.003	0.004	0.010

NVAH13	0.003	0.004	0.010
NVAI05R	0.003	0.004	0.014
NVAI06R	0.004	0.004	0.013
NVAI07	0.004	0.004	0.014
NVAI08	0.003	0.003	0.009
NVAI08_a	0.004	0.006	0.012
NVAI09	0.019	0.005	0.020
NVAI09_Static_Good	0.012	0.012	0.039
NVAI10	0.003	0.004	0.010
NVAI11	0.004	0.007	0.014
NVAI12	0.004	0.005	0.011
NVAI122	0.005	0.007	0.016
NVAI13	0.008	0.006	0.022
NVAI13R	0.002	0.003	0.008
NVAJ06	0.004	0.005	0.011
NVAJ06_a	0.005	0.005	0.016
NVAJ07	0.004	0.004	0.010
NVAJ08	0.006	0.007	0.019
NVAJ09	0.007	0.009	0.021
NVAJ10	0.003	0.004	0.013
NVAJ11	0.005	0.007	0.019

NVAJ12	0.004	0.006	0.016
NVAJ122	0.006	0.008	0.018
NVAJ13R	0.004	0.005	0.017
NVAJ14R	0.004	0.005	0.016
NVAK06	0.002	0.003	0.008
NVAK07	0.005	0.007	0.015
NVAK08	0.004	0.005	0.014
NVAK09	0.006	0.008	0.020
NVAK10	0.006	0.008	0.018
NVAK11	0.004	0.006	0.015
NVAK12	0.007	0.011	0.022
NVAK13	0.004	0.004	0.014
NVAK14R	0.007	0.011	0.065
NVAL06	0.004	0.005	0.013
NVAL07	0.005	0.007	0.015
NVAL08	0.007	0.009	0.019
NVAL09	0.004	0.004	0.014
NVAL10	0.004	0.005	0.016
NVAL11	0.005	0.006	0.017
NVAL12_R	0.004	0.005	0.015
NVAL13	0.005	0.006	0.018

NVAL14	0.007	0.007	0.018
NVAM06	0.005	0.008	0.016
NVAM07	0.004	0.005	0.014
NVAM08	0.003	0.004	0.013
NVAM09	0.002	0.002	0.012
NVAM10	0.004	0.005	0.016
NVAM11	0.004	0.006	0.016
NVAM12R	0.004	0.005	0.015
NVAM13	0.004	0.004	0.014
NVAM142R	0.009	0.012	0.070
NVAM14R	0.006	0.007	0.068
NVAN07R	0.005	0.007	0.019
NVAN08R	0.007	0.009	0.021
NVAN09	0.005	0.006	0.018
NVAN10	0.005	0.006	0.016
NVAN102	0.005	0.007	0.016
NVAN11	0.003	0.007	0.014
NVAN12R	0.004	0.005	0.011
NVAN13R	0.004	0.004	0.060
NVAN14	0.006	0.006	0.013
NVAO10R	0.006	0.007	0.024

NVAO11	0.003	0.004	0.011
PLT001	0.003	0.003	0.009
PLT001_alt	0.003	0.005	0.011
PLT002	0.004	0.004	0.012
PLT002_alt	0.004	0.004	0.015
PLT003	0.003	0.003	0.010
PLT004	0.003	0.004	0.012
PLT005	0.005	0.006	0.015
PLT005_alt	0.003	0.003	0.015
PLT006	0.003	0.004	0.010
PLT007	0.004	0.004	0.012
PLT008	0.004	0.005	0.013
PLT009	0.004	0.004	0.014
PLT010	0.003	0.005	0.009
PLT010_alt	0.003	0.005	0.010
PLT011	0.003	0.003	0.008
PLT011_alt	0.004	0.004	0.011
PLT012	0.004	0.004	0.010
PLT013	0.004	0.004	0.012
PLT014	0.004	0.004	0.010
PLT015	0.003	0.005	0.009

PLT016	0.004	0.004	0.010
PLT017	0.004	0.004	0.012
PLT018	0.004	0.004	0.010
PLT019	0.005	0.007	0.014
PLT020	0.004	0.006	0.011
PVA001	0.005	0.005	0.016
PVA002	0.003	0.004	0.009
PVA003	0.006	0.007	0.020
PVA005	0.006	0.006	0.019
PVA005_ALT	0.004	0.004	0.012
RTN_AZAJ	0.001	0.001	0.005
RTN_AZCG	0.001	0.001	0.011
RTN_AZCK	0.001	0.001	0.006
RTN_AZGE	0.001	0.001	0.005
RTN_AZMA	0.001	0.001	0.005
RTN_AZPX	0.001	0.001	0.005
RTN_AZS1	0.001	0.001	0.005
RTN_AZTH	0.001	0.001	0.006
RTN_AZWB	0.001	0.001	0.006
RTN_COOL	0.001	0.001	0.010
VVA_ALT_sm1	0.004	0.006	0.012

VVA_ALT_sm2	0.005	0.006	0.013
VVA_ALT_sm3	0.004	0.006	0.015
VVA_ALT_sm4	0.005	0.006	0.019
VVA_ALT_sm6	0.005	0.006	0.013
VVA005	0.004	0.007	0.012
VVAA03	0.004	0.005	0.011
VVAA04	0.003	0.005	0.012
VVAA06	0.005	0.008	0.015
VVAA07	0.004	0.006	0.012
VVAA08	0.009	0.012	0.022
VVAB03	0.004	0.004	0.010
VVAB04	0.005	0.007	0.018
VVAB05	0.004	0.004	0.011
VVAB06	0.004	0.005	0.018
VVAB07	0.005	0.006	0.017
VVAC04	0.003	0.004	0.011
VVAC042	0.004	0.005	0.012
VVAC06	0.007	0.008	0.022
VVAC07	0.005	0.008	0.015
VVAC08	0.005	0.005	0.014
VVAD03	0.003	0.004	0.009

VVAD04	0.003	0.004	0.013
VVAD05	0.004	0.006	0.012
VVAD052	0.004	0.004	0.013
VVAD06	0.003	0.004	0.011
VVAD07	0.004	0.007	0.017
VVAD08	0.003	0.005	0.012
VVAD082	0.006	0.007	0.019
VVAE01	0.004	0.011	0.016
VVAE012	0.004	0.005	0.013
VVAE02	0.004	0.005	0.011
VVAE03	0.005	0.006	0.018
VVAE04	0.002	0.002	0.008
VVAE07	0.004	0.006	0.016
VVAE072	0.005	0.007	0.013
VVAE073	0.005	0.007	0.014
VVAF01	0.007	0.006	0.048
VVAF02	0.008	0.006	0.021
VVAF022	0.004	0.005	0.012
VVAF032	0.003	0.003	0.010
VVAF06	0.004	0.006	0.011
VVAF062	0.004	0.006	0.017

VVAF063	0.004	0.004	0.011
VVAF07	0.004	0.006	0.014
VVAF08	0.007	0.010	0.019
VVAF09	0.004	0.005	0.011
VVAF10	0.002	0.004	0.007
VVAF11	0.004	0.004	0.011
VVAF112	0.005	0.008	0.015
VVAG05	0.006	0.006	0.014
VVAG06	0.004	0.006	0.011
VVAG062	0.004	0.010	0.012
VVAG07	0.007	0.010	0.014
VVAG08	0.005	0.008	0.015
VVAG09	0.006	0.007	0.017
VVAG092	0.003	0.003	0.009
VVAG10	0.005	0.007	0.014
VVAH05	0.004	0.005	0.017
VVAH06	0.004	0.005	0.014
VVAH07	0.004	0.005	0.011
VVAH08	0.004	0.005	0.010
VVAH09	0.004	0.004	0.011
VVAH10	0.005	0.007	0.015

VVAH102	0.005	0.007	0.015
VVAH11	0.004	0.006	0.012
VVAH12	0.002	0.003	0.008
VVAI05	0.004	0.004	0.012
VVAI06	0.003	0.004	0.010
VVAI07	0.005	0.007	0.014
VVAI08	0.005	0.006	0.013
VVAI09	0.004	0.005	0.014
VVAI10	0.004	0.006	0.017
VVAI11	0.003	0.004	0.013
VVAI12	0.004	0.005	0.018
VVAI13	0.010	0.011	0.064
VVAJ05	0.005	0.005	0.012
VVAJ052	0.003	0.003	0.009
VVAJ06	0.004	0.005	0.012
VVAJ07	0.004	0.005	0.013
VVAJ08	0.005	0.007	0.017
VVAJ09	0.007	0.009	0.021
VVAJ10	0.006	0.009	0.018
VVAJ11	0.004	0.004	0.014
VVAJ12	0.013	0.013	0.071

VVAK05	0.005	0.007	0.015
VVAK06	0.004	0.005	0.014
VVAK07	0.006	0.007	0.019
VVAK08	0.003	0.003	0.013
VVAK09	0.005	0.006	0.019
VVAK10	0.004	0.005	0.016
VVAK11	0.007	0.008	0.021
VVAK12	0.004	0.005	0.014
VVAL06	0.002	0.003	0.010
VVAL07	0.008	0.010	0.022
VVAL08	0.004	0.005	0.016
VVAL09	0.004	0.005	0.014
VVAL092	0.004	0.005	0.014
VVAL10	0.003	0.005	0.013
VVAL11	0.003	0.004	0.007
VVAL12	0.004	0.005	0.015
VVAL13	0.004	0.005	0.011
VVAM092	0.004	0.005	0.017
VVAM10	0.003	0.004	0.012

Error Ellipse Components

Point ID	Semi-major axis (Meter)	Semi-minor axis (Meter)	Azimuth
AJ3644_Static_Get_DS/OPUS	0.012	0.009	178°
AJ3669	0.012	0.009	176°
AJ3669_Static_Good	0.012	0.010	168°
AJ3699	0.005	0.004	154°
AJ3699_Static_Good	0.018	0.012	163°
AJ3867	0.006	0.005	15°
AJ3867_Static_Ok	0.015	0.011	135°
azmp_NAD83(2011)_Epoch_2010_DS	0.001	0.001	163°
azst_NAD83(2011)_Epoch_2010_DS	0.001	0.001	143°
DA0099	0.006	0.004	177°
DA0099_Static	0.009	0.006	114°
DU0672	0.006	0.005	18°
DU0672_Static	0.011	0.008	177°
DU1317	0.003	0.002	151°
DU1317_Static_Good	0.012	0.011	126°
GCP1072	0.008	0.005	170°
GCP409	0.012	0.010	19°
GCPA03	0.005	0.004	9°

GCPA04	0.006	0.004	8°
GCPA05	0.008	0.006	7°
GCPA06	0.006	0.004	19°
GCPA07	0.005	0.004	5°
GCPA08	0.006	0.004	158°
GCPB03	0.005	0.004	132°
GCPB04	0.006	0.005	169°
GCPB05	0.005	0.004	167°
GCPB06	0.008	0.007	5°
GCPB07	0.005	0.004	16°
GCPB072	0.005	0.004	29°
GCPB08	0.007	0.006	179°
GCPC03	0.005	0.004	9°
GCPC04	0.006	0.005	0°
GCPC05	0.005	0.004	174°
GCPC06	0.008	0.006	13°
GCPC07	0.006	0.004	176°
GCPC08	0.007	0.006	17°
GCPD03	0.004	0.004	174°
GCPD04	0.005	0.004	1°
GCPD05	0.007	0.005	11°

GCPD06	0.004	0.003	8°
GCPD08	0.006	0.005	11°
GCPD09	0.006	0.005	13°
GCPE01	0.008	0.006	171°
GCPE02	0.006	0.005	4°
GCPE03	0.005	0.004	4°
GCPE04	0.004	0.003	178°
GCPE05	0.008	0.006	176°
GCPE06	0.006	0.004	172°
GCPE07	0.005	0.004	127°
GCPE08	0.006	0.005	109°
GCPE09	0.007	0.004	178°
GCPE10	0.006	0.004	3°
GCPE11	0.005	0.004	2°
GCPF04	0.007	0.007	164°
GCPF04_RE_Static_Use_RTK	0.017	0.013	52°
GCPF05	0.006	0.005	169°
GCPF06	0.010	0.006	178°
GCPF07	0.005	0.004	2°
GCPF08	0.006	0.004	171°
GCPF09	0.006	0.004	2°

GCPF10	0.005	0.004	173°
GCPF11	0.005	0.004	178°
GCPF12	0.005	0.004	172°
GCPG05	0.009	0.007	170°
GCPG06	0.006	0.004	141°
GCPG07	0.011	0.010	18°
GCPG08	0.006	0.004	10°
GCPG09	0.006	0.004	9°
GCPG10	0.005	0.004	13°
GCPG11	0.004	0.003	172°
GCPG12	0.004	0.004	10°
GCPG122	0.008	0.006	7°
GCPG13	0.014	0.006	123°
GCPG13R_Static_Good	0.017	0.012	1°
GCPH05	0.007	0.005	175°
GCPH06	0.007	0.005	12°
GCPH062	0.005	0.004	174°
GCPH07	0.012	0.010	16°
GCPH08	0.011	0.008	6°
GCPH09	0.008	0.007	9°
GCPH10	0.009	0.006	172°

GCPH11	0.008	0.005	171°
GCPH112	0.007	0.004	170°
GCPH122R	0.007	0.006	13°
GCPH12R	0.005	0.004	14°
GCPI05	0.008	0.006	167°
GCPI06	0.003	0.003	161°
GCPI07	0.012	0.009	173°
GCPI08	0.008	0.006	175°
GCPI09	0.013	0.009	5°
GCPI10	0.009	0.006	174°
GCPI11	0.013	0.008	178°
GCPI12	0.004	0.003	11°
GCPI12_Static_Get_OPUS	0.014	0.010	10°
GCPI13	0.016	0.013	17°
GCPJ05	0.008	0.006	7°
GCPJ06	0.007	0.006	172°
GCPJ07	0.005	0.004	11°
GCPJ08	0.009	0.007	176°
GCPJ09	0.003	0.002	8°
GCPJ10	0.008	0.006	16°
GCPJ11R	0.006	0.004	3°

GCPJ12	0.004	0.003	171°
GCPJ13R	0.005	0.005	55°
GCPK07	0.008	0.006	177°
GCPK08	0.006	0.004	174°
GCPK09	0.005	0.004	177°
GCPK10	0.011	0.006	16°
GCPK11	0.007	0.005	169°
GCPK12	0.005	0.004	166°
GCPK13	0.015	0.011	180°
GCPL09	0.008	0.006	12°
GCPL09R	0.006	0.005	14°
GCPL10	0.007	0.006	12°
GCPL11	0.005	0.004	167°
HOTELAM1001	0.006	0.006	8°
HOTELAM1002	0.007	0.006	12°
HOTELAM927	0.010	0.006	66°
HOTELAM928	0.007	0.005	44°
HOTELAM929	0.008	0.005	16°
HOTELAM930	0.006	0.005	53°
HOTELPM1001	0.006	0.004	15°
HOTELPM1002	0.011	0.009	15°

HOTELPM927	0.005	0.004	11°
HOTELPM928	0.012	0.010	173°
HOTELPM929	0.006	0.004	178°
HOTELPM930	0.013	0.010	105°
NVA400	0.010	0.006	173°
NVAA03	0.005	0.004	10°
NVAA04	0.011	0.007	11°
NVAA05	0.005	0.005	18°
NVAA06	0.008	0.006	8°
NVAA07	0.004	0.003	0°
NVAA08	0.005	0.004	155°
NVAB03	0.004	0.004	140°
NVAB04	0.006	0.005	170°
NVAB05	0.005	0.005	164°
NVAB06	0.005	0.004	167°
NVAB07	0.005	0.004	29°
NVAB08	0.004	0.004	6°
NVAC03	0.006	0.006	129°
NVAC04	0.006	0.004	172°
NVAC05	0.006	0.004	174°
NVAC06	0.005	0.004	149°

NVAC062	0.005	0.004	143°
NVAC07	0.006	0.005	166°
NVAC08	0.006	0.005	9°
NVAC09	0.006	0.005	171°
NVAD03	0.005	0.004	7°
NVAD04	0.004	0.003	177°
NVAD05	0.007	0.005	0°
NVAD06	0.008	0.005	2°
NVAD07	0.005	0.004	16°
NVAD08	0.009	0.006	174°
NVAE03	0.005	0.004	160°
NVAE03_Static_Good	0.020	0.011	130°
NVAE04	0.006	0.004	7°
NVAE05	0.007	0.006	9°
NVAE06	0.005	0.004	1°
NVAE07	0.003	0.003	6°
NVAE08	0.004	0.004	172°
NVAF01	0.008	0.006	177°
NVAF02	0.006	0.005	4°
NVAF03	0.005	0.004	5°
NVAF04	0.005	0.004	176°

NVAF05	0.005	0.004	172°
NVAF06	0.006	0.004	174°
NVAF07	0.007	0.005	127°
NVAF08	0.005	0.005	132°
NVAF092	0.006	0.005	103°
NVAF11	0.005	0.004	3°
NVAG04	0.006	0.005	163°
NVAG05	0.006	0.004	2°
NVAG052	0.006	0.004	3°
NVAG06	0.006	0.004	11°
NVAG07	0.005	0.004	14°
NVAG08	0.008	0.005	171°
NVAG09	0.006	0.004	1°
NVAG10	0.004	0.003	179°
NVAG10_Static_Good	0.013	0.011	157°
NVAG102	0.004	0.003	174°
NVAG11	0.005	0.004	176°
NVAG122	0.005	0.004	177°
NVAH05	0.005	0.004	15°
NVAH06	0.005	0.004	179°
NVAH06R	0.005	0.003	168°

NVAH07	0.011	0.007	4°
NVAH08	0.006	0.005	8°
NVAH082	0.006	0.005	5°
NVAH09	0.004	0.003	168°
NVAH10	0.005	0.004	1°
NVAH102	0.006	0.004	3°
NVAH11	0.007	0.005	174°
NVAH112	0.006	0.005	177°
NVAH12	0.005	0.004	173°
NVAH13	0.005	0.004	8°
NVAI05R	0.006	0.004	169°
NVAI06R	0.006	0.004	141°
NVAI07	0.006	0.005	140°
NVAI08	0.004	0.003	3°
NVAI08_a	0.007	0.005	180°
NVAI09	0.023	0.006	92°
NVAI09_Static_Good	0.017	0.013	46°
NVAI10	0.005	0.004	13°
NVAI11	0.009	0.006	173°
NVAI12	0.007	0.005	7°
NVAI122	0.009	0.006	2°

NVAI13	0.011	0.007	121°
NVAI13R	0.004	0.003	3°
NVAJ06	0.007	0.005	177°
NVAJ06_a	0.006	0.006	137°
NVAJ07	0.006	0.004	15°
NVAJ08	0.009	0.007	1°
NVAJ09	0.012	0.009	8°
NVAJ10	0.005	0.004	173°
NVAJ11	0.009	0.006	171°
NVAJ12	0.008	0.006	171°
NVAJ122	0.010	0.007	170°
NVAJ13R	0.007	0.005	14°
NVAJ14R	0.006	0.005	144°
NVAK06	0.003	0.003	161°
NVAK07	0.008	0.006	170°
NVAK08	0.007	0.005	169°
NVAK09	0.010	0.007	174°
NVAK10	0.010	0.007	4°
NVAK11	0.008	0.005	175°
NVAK12	0.014	0.008	179°
NVAK13	0.005	0.004	28°

NVAK14R	0.014	0.009	18°
NVAL06	0.007	0.005	167°
NVAL07	0.009	0.007	173°
NVAL08	0.012	0.009	4°
NVAL09	0.005	0.005	33°
NVAL10	0.006	0.005	172°
NVAL11	0.008	0.006	172°
NVAL12_R	0.007	0.005	2°
NVAL13	0.008	0.007	1°
NVAL14	0.009	0.008	66°
NVAM06	0.010	0.007	5°
NVAM07	0.007	0.005	14°
NVAM08	0.005	0.004	173°
NVAM09	0.003	0.003	8°
NVAM10	0.006	0.005	7°
NVAM11	0.007	0.005	15°
NVAM12R	0.006	0.005	12°
NVAM13	0.005	0.005	167°
NVAM142R	0.015	0.010	161°
NVAM14R	0.009	0.008	172°
NVAN07R	0.009	0.006	176°

NVAN08R	0.011	0.009	0°
NVAN09	0.007	0.006	1°
NVAN10	0.008	0.006	6°
NVAN102	0.008	0.006	9°
NVAN11	0.008	0.004	179°
NVAN12R	0.007	0.004	1°
NVAN13R	0.006	0.005	140°
NVAN14	0.008	0.007	64°
NVAO10R	0.009	0.008	12°
NVAO11	0.005	0.004	169°
PLT001	0.004	0.003	1°
PLT001_alt	0.006	0.004	3°
PLT002	0.006	0.005	24°
PLT002_alt	0.006	0.005	142°
PLT003	0.004	0.004	11°
PLT004	0.005	0.004	165°
PLT005	0.008	0.005	28°
PLT005_alt	0.004	0.003	27°
PLT006	0.005	0.004	11°
PLT007	0.005	0.004	29°
PLT008	0.006	0.005	157°

PLT009	0.005	0.005	131°
PLT010	0.006	0.004	11°
PLT010_alt	0.006	0.004	9°
PLT011	0.004	0.003	176°
PLT011_alt	0.005	0.005	8°
PLT012	0.005	0.005	17°
PLT013	0.005	0.004	128°
PLT014	0.005	0.005	23°
PLT015	0.006	0.004	14°
PLT016	0.005	0.004	148°
PLT017	0.005	0.004	52°
PLT018	0.005	0.005	32°
PLT019	0.009	0.007	0°
PLT020	0.008	0.006	177°
PVA001	0.006	0.005	150°
PVA002	0.005	0.004	162°
PVA003	0.009	0.007	164°
PVA005	0.009	0.007	126°
PVA005_ALT	0.005	0.004	130°
RTN_AZAJ	0.001	0.001	19°
RTN_AZCG	0.002	0.001	155°

RTN_AZCK	0.002	0.001	162°
RTN_AZGE	0.001	0.001	134°
RTN_AZMA	0.001	0.001	151°
RTN_AZPX	0.001	0.001	158°
RTN_AZS1	0.001	0.001	141°
RTN_AZTH	0.001	0.001	114°
RTN_AZWB	0.001	0.001	132°
RTN_COOL	0.002	0.001	131°
VVA_ALT_sm1	0.007	0.005	176°
VVA_ALT_sm2	0.008	0.006	165°
VVA_ALT_sm3	0.007	0.005	177°
VVA_ALT_sm4	0.008	0.006	6°
VVA_ALT_sm6	0.007	0.006	171°
VVA005	0.009	0.005	167°
VVAA03	0.007	0.005	11°
VVAA04	0.006	0.004	5°
VVAA06	0.010	0.006	14°
VVAA07	0.008	0.005	5°
VVAA08	0.015	0.010	157°
VVAB03	0.005	0.004	144°
VVAB04	0.009	0.006	167°

VVAB05	0.006	0.005	165°
VVAB06	0.007	0.005	5°
VVAB07	0.008	0.007	179°
VVAC04	0.005	0.004	175°
VVAC042	0.006	0.005	5°
VVAC06	0.010	0.008	11°
VVAC07	0.010	0.006	176°
VVAC08	0.007	0.006	30°
VVAD03	0.004	0.004	2°
VVAD04	0.005	0.004	169°
VVAD05	0.008	0.005	5°
VVAD052	0.006	0.004	156°
VVAD06	0.005	0.003	171°
VVAD07	0.009	0.006	178°
VVAD08	0.006	0.004	173°
VVAD082	0.009	0.007	18°
VVAE01	0.014	0.004	164°
VVAE012	0.007	0.005	5°
VVAE02	0.006	0.005	7°
VVAE03	0.008	0.006	2°
VVAE04	0.003	0.003	160°

VVAE07	0.008	0.005	1°
VVAE072	0.008	0.006	180°
VVAE073	0.009	0.006	177°
VVAF01	0.009	0.008	103°
VVAF02	0.010	0.007	57°
VVAF022	0.006	0.005	17°
VVAF032	0.005	0.004	115°
VVAF06	0.007	0.005	163°
VVAF062	0.007	0.005	162°
VVAF063	0.005	0.004	164°
VVAF07	0.007	0.005	169°
VVAF08	0.012	0.008	166°
VVAF09	0.006	0.004	5°
VVAF10	0.005	0.003	173°
VVAF11	0.006	0.005	165°
VVAF112	0.010	0.005	163°
VVAG05	0.008	0.007	27°
VVAG06	0.008	0.005	178°
VVAG062	0.013	0.005	8°
VVAG07	0.014	0.005	30°
VVAG08	0.010	0.006	167°

VVAG09	0.009	0.007	179°
VVAG092	0.004	0.003	10°
VVAG10	0.008	0.006	178°
VVAH05	0.006	0.005	170°
VVAH06	0.006	0.005	140°
VVAH07	0.007	0.005	4°
VVAH08	0.006	0.005	179°
VVAH09	0.006	0.005	12°
VVAH10	0.009	0.007	177°
VVAH102	0.008	0.007	12°
VVAH11	0.007	0.005	10°
VVAH12	0.004	0.003	1°
VVAI05	0.005	0.004	174°
VVAI06	0.005	0.004	179°
VVAI07	0.008	0.007	9°
VVAI08	0.007	0.006	10°
VVAI09	0.006	0.005	175°
VVAI10	0.007	0.005	171°
VVAI11	0.005	0.004	178°
VVAI12	0.007	0.006	5°
VVAI13	0.014	0.012	3°

VVAJ05	0.006	0.006	86°
VVAJ052	0.004	0.004	3°
VVAJ06	0.007	0.005	172°
VVAJ07	0.007	0.005	167°
VVAJ08	0.008	0.006	174°
VVAJ09	0.011	0.008	8°
VVAJ10	0.011	0.008	173°
VVAJ11	0.006	0.005	16°
VVAJ12	0.018	0.014	46°
VVAK05	0.009	0.006	13°
VVAK06	0.006	0.004	8°
VVAK07	0.009	0.007	5°
VVAK08	0.004	0.003	12°
VVAK09	0.007	0.006	180°
VVAK10	0.007	0.005	15°
VVAK11	0.010	0.008	23°
VVAK12	0.006	0.005	173°
VVAL06	0.004	0.003	177°
VVAL07	0.013	0.010	5°
VVAL08	0.006	0.005	178°
VVAL09	0.006	0.005	10°

VVAL092	0.006	0.005	9°
VVAL10	0.006	0.004	177°
VVAL11	0.006	0.004	7°
VVAL12	0.006	0.005	3°
VVAL13	0.006	0.004	11°
VVAM092	0.006	0.005	5°
VVAM10	0.005	0.004	166°

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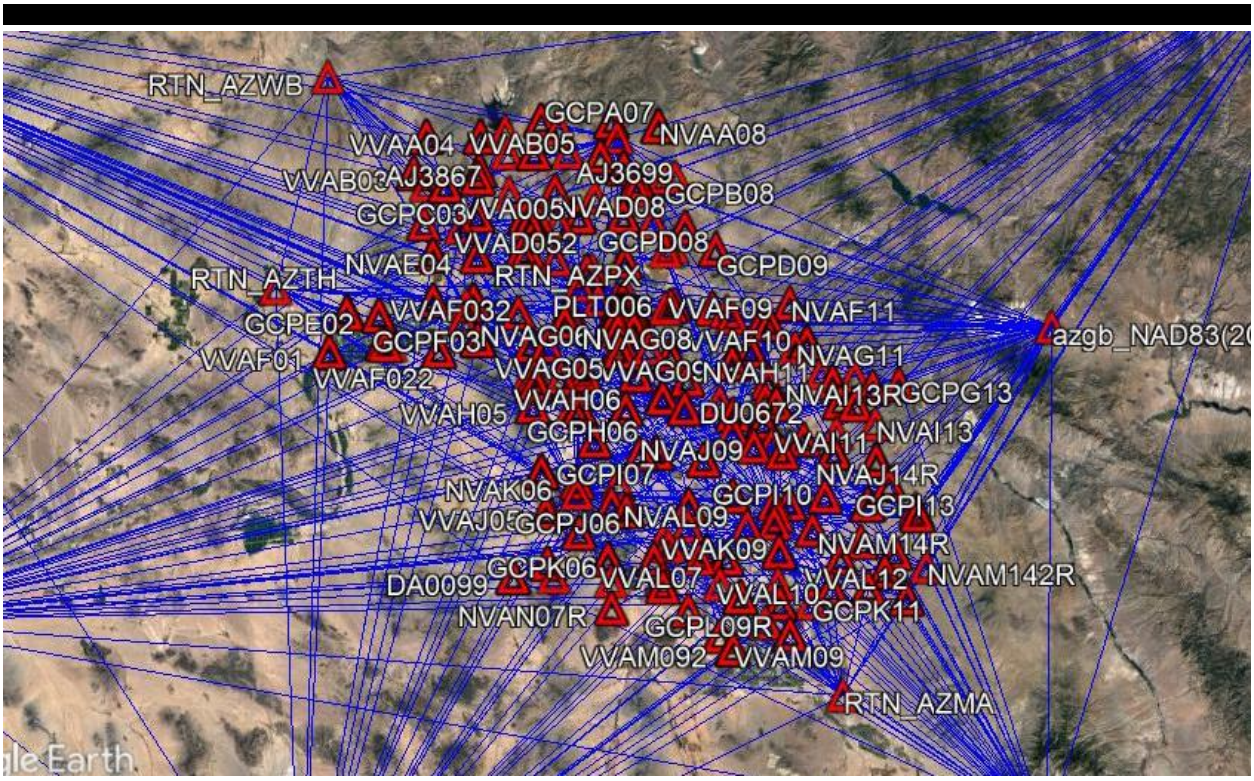
Project File Data		Coordinate System	
Name:	6367_VeriDaas_Greater_Phoenix_Lidar_v8.vce	Name:	World wide/UTM
Size:	2 MB	Datum:	ITRF
Modified:	10/18/2020 4:21:15 PM (UTC:-6)	Zone:	12 North
Time zone:	Mountain Standard Time	Geoid:	GEOID12B (Conus)



Network Adjustment Report

Adjustment Settings

Set-Up Errors

GNSS

Error in Height of Antenna: 0.000 m

Centering Error: 0.000 m

Covariance Display

Horizontal:

Propagated Linear Error [E]: U.S.

Constant Term [C]: 0.000 m

Scale on Linear Error [S]: 1.960

Three-Dimensional

Propagated Linear Error [E]: U.S.

Constant Term [C]: 0.000 m

Scale on Linear Error [S]: 1.960

Adjustment Statistics

Number of Iterations for Successful Adjustment: 2

Network Reference Factor: 1.00

Chi Square Test (95%): Passed

Precision Confidence Level: 95%

Degrees of Freedom: 2102

Post Processed Vector Statistics

Reference Factor: 1.00

Redundancy Number: 646.32

A Priori Scalar: 1.49

RTK Vector Statistics

Reference Factor: 0.99

Redundancy Number: 1455.68

A Priori Scalar: 0.49

Control Coordinate Comparisons

Values shown are control coordinates minus adjusted coordinates.

Point ID	ΔEasting (Meter)	ΔNorthing (Meter)	ΔElevation (Meter)	ΔHeight (Meter)
azmp_NAD83(2011)_Epoch_2010_DS	-0.004	-0.013	?	-0.010
azst_NAD83(2011)_Epoch_2010_DS	-0.008	0.000	?	0.014

Control Point Constraints

Point ID	Type	East σ (Meter)	North σ (Meter)	Height σ (Meter)
azbr_NAD83(2011)_Epoch_2010_DS	Global	Fixed	Fixed	Fixed
azgb_NAD83(2011)_Epoch_2010_DS	Global	Fixed	Fixed	Fixed
p001_NAD83(2011)_Epoch_2010_DS	Global	Fixed	Fixed	Fixed
p003_NAD83(2011)_Epoch_2010_DS	Global	Fixed	Fixed	Fixed
p015_NAD83(2011)_Epoch_2010_DS	Global	Fixed	Fixed	Fixed
p623_NAD83(2011)_Epoch_2010_DS	Global	Fixed	Fixed	Fixed

Fixed = 0.000001(Meter)

Adjusted Grid Coordinates

Point ID	Easting Error (Meter)	Northing Error (Meter)	Elevation Error (Meter)
AJ3644_Static_Get_DS/OPUS	0.007	0.009	0.058
AJ3669	0.007	0.010	0.019
AJ3669_Static_Good	0.008	0.010	0.051
AJ3699	0.003	0.004	0.011
AJ3699_Static_Good	0.010	0.014	0.052
AJ3867	0.004	0.005	0.017

AJ3867_Static_Ok	0.011	0.011	0.063
azmp_NAD83(2011)_Epoch_2010_DS	0.001	0.001	0.005
azst_NAD83(2011)_Epoch_2010_DS	0.001	0.001	0.004
DA0099	0.003	0.005	0.010
DA0099_Static	0.007	0.005	0.053
DU0672	0.004	0.005	0.018
DU0672_Static	0.007	0.009	0.022
DU1317	0.002	0.002	0.006
DU1317_Static_Good	0.010	0.009	0.068
GCP1072	0.004	0.006	0.015
GCP409	0.008	0.009	0.020
GCPA03	0.003	0.004	0.010
GCPA04	0.003	0.004	0.011
GCPA05	0.005	0.007	0.013
GCPA06	0.004	0.005	0.013
GCPA07	0.003	0.004	0.009
GCPA08	0.004	0.004	0.010
GCPB03	0.004	0.004	0.011
GCPB04	0.004	0.005	0.013
GCPB05	0.003	0.004	0.011
GCPB06	0.005	0.006	0.018

GCPB07	0.003	0.004	0.012
GCPB072	0.003	0.004	0.010
GCPB08	0.004	0.006	0.014
GCPC03	0.003	0.004	0.009
GCPC04	0.004	0.005	0.013
GCPC05	0.003	0.004	0.012
GCPC06	0.005	0.006	0.015
GCPC07	0.003	0.005	0.010
GCPC08	0.005	0.005	0.013
GCPD03	0.003	0.004	0.009
GCPD04	0.003	0.004	0.013
GCPD05	0.004	0.005	0.012
GCPD06	0.002	0.003	0.008
GCPD08	0.004	0.005	0.015
GCPD09	0.004	0.005	0.012
GCPE01	0.005	0.006	0.014
GCPE02	0.004	0.005	0.011
GCPE03	0.003	0.004	0.010
GCPE04	0.002	0.003	0.007
GCPE05	0.005	0.007	0.013
GCPE06	0.003	0.005	0.010

GCPE07	0.004	0.004	0.013
GCPE08	0.005	0.004	0.017
GCPE09	0.004	0.006	0.014
GCPE10	0.003	0.005	0.009
GCPE11	0.003	0.004	0.011
GCPF04	0.005	0.006	0.014
GCPF04_RE_Static_Use_RTK	0.012	0.011	0.067
GCPF05	0.004	0.005	0.011
GCPF06	0.005	0.008	0.015
GCPF07	0.003	0.004	0.013
GCPF08	0.003	0.004	0.010
GCPF09	0.004	0.005	0.011
GCPF10	0.003	0.004	0.008
GCPF11	0.004	0.004	0.011
GCPF12	0.003	0.004	0.011
GCPG05	0.006	0.007	0.015
GCPG06	0.004	0.004	0.014
GCPG07	0.008	0.009	0.046
GCPG08	0.004	0.004	0.010
GCPG09	0.004	0.005	0.010
GCPG10	0.003	0.004	0.010

GCPG11	0.003	0.004	0.008
GCPG12	0.003	0.003	0.009
GCPG122	0.005	0.006	0.012
GCPG13	0.010	0.007	0.011
GCPG13R_Static_Good	0.010	0.014	0.053
GCPH05	0.004	0.005	0.011
GCPH06	0.004	0.006	0.012
GCPH062	0.003	0.004	0.013
GCPH07	0.008	0.010	0.021
GCPH08	0.007	0.008	0.021
GCPH09	0.005	0.007	0.015
GCPH10	0.005	0.007	0.018
GCPH11	0.004	0.006	0.017
GCPH112	0.004	0.005	0.015
GCPH122R	0.005	0.006	0.019
GCPH12R	0.003	0.004	0.014
GCPI05	0.005	0.007	0.015
GCPI06	0.002	0.002	0.008
GCPI07	0.007	0.010	0.022
GCPI08	0.005	0.006	0.017
GCPI09	0.007	0.010	0.022

GCPI10	0.005	0.007	0.017
GCPI11	0.006	0.010	0.021
GCPI12	0.003	0.003	0.013
GCPI12_Static_Get_OPUS	0.008	0.011	0.032
GCPI13	0.011	0.013	0.063
GCPJ05	0.005	0.007	0.014
GCPJ06	0.004	0.006	0.012
GCPJ07	0.003	0.004	0.011
GCPJ08	0.006	0.007	0.017
GCPJ09	0.002	0.002	0.011
GCPJ10	0.005	0.006	0.016
GCPJ11R	0.004	0.005	0.014
GCPJ12	0.003	0.003	0.013
GCPJ13R	0.004	0.004	0.052
GCPK07	0.005	0.006	0.019
GCPK08	0.003	0.005	0.015
GCPK09	0.003	0.004	0.014
GCPK10	0.005	0.009	0.016
GCPK11	0.004	0.005	0.014
GCPK12	0.003	0.004	0.013
GCPK13	0.009	0.012	0.066

GCPL09	0.005	0.006	0.016
GCPL09R	0.004	0.005	0.015
GCPL10	0.005	0.006	0.016
GCPL11	0.003	0.004	0.010
HOTELAM1001	0.005	0.005	0.016
HOTELAM1002	0.005	0.005	0.018
HOTELAM927	0.007	0.006	0.019
HOTELAM928	0.005	0.005	0.013
HOTELAM929	0.004	0.006	0.016
HOTELAM930	0.005	0.004	0.011
HOTELPM1001	0.004	0.004	0.011
HOTELPM1002	0.007	0.008	0.019
HOTELPM927	0.003	0.004	0.011
HOTELPM928	0.008	0.010	0.023
HOTELPM929	0.003	0.005	0.012
HOTELPM930	0.011	0.008	0.023
NVA400	0.005	0.008	0.016
NVAA03	0.004	0.004	0.010
NVAA04	0.006	0.009	0.018
NVAA05	0.004	0.004	0.013
NVAA06	0.005	0.006	0.013

NVAA07	0.003	0.004	0.008
NVAA08	0.004	0.004	0.010
NVAB03	0.003	0.003	0.010
NVAB04	0.004	0.005	0.012
NVAB05	0.004	0.004	0.013
NVAB06	0.003	0.004	0.011
NVAB07	0.003	0.004	0.011
NVAB08	0.003	0.003	0.011
NVAC03	0.005	0.005	0.015
NVAC04	0.003	0.005	0.011
NVAC05	0.003	0.005	0.015
NVAC06	0.003	0.004	0.013
NVAC062	0.003	0.003	0.012
NVAC07	0.004	0.005	0.011
NVAC08	0.004	0.005	0.011
NVAC09	0.004	0.005	0.014
NVAD03	0.003	0.004	0.009
NVAD04	0.002	0.003	0.008
NVAD05	0.004	0.005	0.017
NVAD06	0.004	0.007	0.019
NVAD07	0.003	0.004	0.011

NVAD08	0.005	0.007	0.013
NVAE03	0.003	0.004	0.012
NVAE03_Static_Good	0.013	0.012	0.060
NVAE04	0.003	0.004	0.014
NVAE05	0.005	0.006	0.013
NVAE06	0.003	0.004	0.010
NVAE07	0.002	0.003	0.007
NVAE08	0.003	0.004	0.011
NVAF01	0.005	0.007	0.019
NVAF02	0.004	0.005	0.011
NVAF03	0.003	0.004	0.010
NVAF04	0.003	0.004	0.010
NVAF05	0.003	0.004	0.009
NVAF06	0.003	0.005	0.010
NVAF07	0.005	0.004	0.014
NVAF08	0.004	0.004	0.013
NVAF092	0.005	0.004	0.016
NVAF11	0.003	0.004	0.011
NVAG04	0.004	0.004	0.011
NVAG05	0.003	0.005	0.012
NVAG052	0.003	0.005	0.012

NVAG06	0.004	0.005	0.011
NVAG07	0.003	0.004	0.011
NVAG08	0.004	0.006	0.015
NVAG09	0.003	0.005	0.011
NVAG10	0.003	0.003	0.009
NVAG10_Static_Good	0.009	0.010	0.061
NVAG102	0.002	0.003	0.007
NVAG11	0.003	0.004	0.010
NVAG122	0.003	0.004	0.009
NVAH05	0.003	0.004	0.012
NVAH06	0.003	0.004	0.011
NVAH06R	0.003	0.004	0.009
NVAH07	0.006	0.009	0.016
NVAH08	0.004	0.005	0.011
NVAH082	0.004	0.005	0.011
NVAH09	0.003	0.003	0.008
NVAH10	0.003	0.004	0.009
NVAH102	0.003	0.005	0.011
NVAH11	0.004	0.005	0.017
NVAH112	0.004	0.005	0.015
NVAH12	0.003	0.004	0.010

NVAH13	0.003	0.004	0.010
NVAI05R	0.003	0.004	0.014
NVAI06R	0.004	0.004	0.013
NVAI07	0.004	0.004	0.014
NVAI08	0.003	0.003	0.009
NVAI08_a	0.004	0.006	0.012
NVAI09	0.019	0.005	0.020
NVAI09_Static_Good	0.012	0.012	0.039
NVAI10	0.003	0.004	0.010
NVAI11	0.004	0.007	0.014
NVAI12	0.004	0.005	0.011
NVAI122	0.005	0.007	0.016
NVAI13	0.008	0.006	0.022
NVAI13R	0.002	0.003	0.008
NVAJ06	0.004	0.005	0.011
NVAJ06_a	0.005	0.005	0.016
NVAJ07	0.004	0.004	0.010
NVAJ08	0.006	0.007	0.019
NVAJ09	0.007	0.009	0.021
NVAJ10	0.003	0.004	0.013
NVAJ11	0.005	0.007	0.019

NVAJ12	0.004	0.006	0.016
NVAJ122	0.006	0.008	0.018
NVAJ13R	0.004	0.005	0.017
NVAJ14R	0.004	0.005	0.016
NVAK06	0.002	0.003	0.008
NVAK07	0.005	0.007	0.015
NVAK08	0.004	0.005	0.014
NVAK09	0.006	0.008	0.020
NVAK10	0.006	0.008	0.018
NVAK11	0.004	0.006	0.015
NVAK12	0.007	0.011	0.022
NVAK13	0.004	0.004	0.014
NVAK14R	0.007	0.011	0.065
NVAL06	0.004	0.005	0.013
NVAL07	0.005	0.007	0.015
NVAL08	0.007	0.009	0.019
NVAL09	0.004	0.004	0.014
NVAL10	0.004	0.005	0.016
NVAL11	0.005	0.006	0.017
NVAL12_R	0.004	0.005	0.015
NVAL13	0.005	0.006	0.018

NVAL14	0.007	0.007	0.018
NVAM06	0.005	0.008	0.016
NVAM07	0.004	0.005	0.014
NVAM08	0.003	0.004	0.013
NVAM09	0.002	0.002	0.012
NVAM10	0.004	0.005	0.016
NVAM11	0.004	0.006	0.016
NVAM12R	0.004	0.005	0.015
NVAM13	0.004	0.004	0.014
NVAM142R	0.009	0.012	0.070
NVAM14R	0.006	0.007	0.068
NVAN07R	0.005	0.007	0.019
NVAN08R	0.007	0.009	0.021
NVAN09	0.005	0.006	0.018
NVAN10	0.005	0.006	0.016
NVAN102	0.005	0.007	0.016
NVAN11	0.003	0.007	0.014
NVAN12R	0.004	0.005	0.011
NVAN13R	0.004	0.004	0.060
NVAN14	0.006	0.006	0.013
NVAO10R	0.006	0.007	0.024

NVAO11	0.003	0.004	0.011
PLT001	0.003	0.003	0.009
PLT001_alt	0.003	0.005	0.011
PLT002	0.004	0.004	0.012
PLT002_alt	0.004	0.004	0.015
PLT003	0.003	0.003	0.010
PLT004	0.003	0.004	0.012
PLT005	0.005	0.006	0.015
PLT005_alt	0.003	0.003	0.015
PLT006	0.003	0.004	0.010
PLT007	0.004	0.004	0.012
PLT008	0.004	0.005	0.013
PLT009	0.004	0.004	0.014
PLT010	0.003	0.005	0.009
PLT010_alt	0.003	0.005	0.010
PLT011	0.003	0.003	0.008
PLT011_alt	0.004	0.004	0.011
PLT012	0.004	0.004	0.010
PLT013	0.004	0.004	0.012
PLT014	0.004	0.004	0.010
PLT015	0.003	0.005	0.009

PLT016	0.004	0.004	0.010
PLT017	0.004	0.004	0.012
PLT018	0.004	0.004	0.010
PLT019	0.005	0.007	0.014
PLT020	0.004	0.006	0.011
PVA001	0.005	0.005	0.016
PVA002	0.003	0.004	0.009
PVA003	0.006	0.007	0.020
PVA005	0.006	0.006	0.019
PVA005_ALT	0.004	0.004	0.012
RTN_AZAJ	0.001	0.001	0.005
RTN_AZCG	0.001	0.001	0.011
RTN_AZCK	0.001	0.001	0.006
RTN_AZGE	0.001	0.001	0.005
RTN_AZMA	0.001	0.001	0.005
RTN_AZPX	0.001	0.001	0.005
RTN_AZS1	0.001	0.001	0.005
RTN_AZTH	0.001	0.001	0.006
RTN_AZWB	0.001	0.001	0.006
RTN_COOL	0.001	0.001	0.010
VVA_ALT_sm1	0.004	0.006	0.012

VVA_ALT_sm2	0.005	0.006	0.013
VVA_ALT_sm3	0.004	0.006	0.015
VVA_ALT_sm4	0.005	0.006	0.019
VVA_ALT_sm6	0.005	0.006	0.013
VVA005	0.004	0.007	0.012
VVAA03	0.004	0.005	0.011
VVAA04	0.003	0.005	0.012
VVAA06	0.005	0.008	0.015
VVAA07	0.004	0.006	0.012
VVAA08	0.009	0.012	0.022
VVAB03	0.004	0.004	0.010
VVAB04	0.005	0.007	0.018
VVAB05	0.004	0.004	0.011
VVAB06	0.004	0.005	0.018
VVAB07	0.005	0.006	0.017
VVAC04	0.003	0.004	0.011
VVAC042	0.004	0.005	0.012
VVAC06	0.007	0.008	0.022
VVAC07	0.005	0.008	0.015
VVAC08	0.005	0.005	0.014
VVAD03	0.003	0.004	0.009

VVAD04	0.003	0.004	0.013
VVAD05	0.004	0.006	0.012
VVAD052	0.004	0.004	0.013
VVAD06	0.003	0.004	0.011
VVAD07	0.004	0.007	0.017
VVAD08	0.003	0.005	0.012
VVAD082	0.006	0.007	0.019
VVAE01	0.004	0.011	0.016
VVAE012	0.004	0.005	0.013
VVAE02	0.004	0.005	0.011
VVAE03	0.005	0.006	0.018
VVAE04	0.002	0.002	0.008
VVAE07	0.004	0.006	0.016
VVAE072	0.005	0.007	0.013
VVAE073	0.005	0.007	0.014
VVAF01	0.007	0.006	0.048
VVAF02	0.008	0.006	0.021
VVAF022	0.004	0.005	0.012
VVAF032	0.003	0.003	0.010
VVAF06	0.004	0.006	0.011
VVAF062	0.004	0.006	0.017

VVAF063	0.004	0.004	0.011
VVAF07	0.004	0.006	0.014
VVAF08	0.007	0.010	0.019
VVAF09	0.004	0.005	0.011
VVAF10	0.002	0.004	0.007
VVAF11	0.004	0.004	0.011
VVAF112	0.005	0.008	0.015
VVAG05	0.006	0.006	0.014
VVAG06	0.004	0.006	0.011
VVAG062	0.004	0.010	0.012
VVAG07	0.007	0.010	0.014
VVAG08	0.005	0.008	0.015
VVAG09	0.006	0.007	0.017
VVAG092	0.003	0.003	0.009
VVAG10	0.005	0.007	0.014
VVAH05	0.004	0.005	0.017
VVAH06	0.004	0.005	0.014
VVAH07	0.004	0.005	0.011
VVAH08	0.004	0.005	0.010
VVAH09	0.004	0.004	0.011
VVAH10	0.005	0.007	0.015

VVAH102	0.005	0.007	0.015
VVAH11	0.004	0.006	0.012
VVAH12	0.002	0.003	0.008
VVAI05	0.004	0.004	0.012
VVAI06	0.003	0.004	0.010
VVAI07	0.005	0.007	0.014
VVAI08	0.005	0.006	0.013
VVAI09	0.004	0.005	0.014
VVAI10	0.004	0.006	0.017
VVAI11	0.003	0.004	0.013
VVAI12	0.004	0.005	0.018
VVAI13	0.010	0.011	0.064
VVAJ05	0.005	0.005	0.012
VVAJ052	0.003	0.003	0.009
VVAJ06	0.004	0.005	0.012
VVAJ07	0.004	0.005	0.013
VVAJ08	0.005	0.007	0.017
VVAJ09	0.007	0.009	0.021
VVAJ10	0.006	0.009	0.018
VVAJ11	0.004	0.004	0.014
VVAJ12	0.013	0.013	0.071

VVAK05	0.005	0.007	0.015
VVAK06	0.004	0.005	0.014
VVAK07	0.006	0.007	0.019
VVAK08	0.003	0.003	0.013
VVAK09	0.005	0.006	0.019
VVAK10	0.004	0.005	0.016
VVAK11	0.007	0.008	0.021
VVAK12	0.004	0.005	0.014
VVAL06	0.002	0.003	0.010
VVAL07	0.008	0.010	0.022
VVAL08	0.004	0.005	0.016
VVAL09	0.004	0.005	0.014
VVAL092	0.004	0.005	0.014
VVAL10	0.003	0.005	0.013
VVAL11	0.003	0.004	0.007
VVAL12	0.004	0.005	0.015
VVAL13	0.004	0.005	0.011
VVAM092	0.004	0.005	0.017
VVAM10	0.003	0.004	0.012

Error Ellipse Components

Point ID	Semi-major axis (Meter)	Semi-minor axis (Meter)	Azimuth
AJ3644_Static_Get_DS/OPUS	0.012	0.009	178°
AJ3669	0.012	0.009	176°
AJ3669_Static_Good	0.012	0.010	168°
AJ3699	0.005	0.004	154°
AJ3699_Static_Good	0.018	0.012	163°
AJ3867	0.006	0.005	15°
AJ3867_Static_Ok	0.015	0.011	135°
azmp_NAD83(2011)_Epoch_2010_DS	0.001	0.001	163°
azst_NAD83(2011)_Epoch_2010_DS	0.001	0.001	143°
DA0099	0.006	0.004	177°
DA0099_Static	0.009	0.006	114°
DU0672	0.006	0.005	18°
DU0672_Static	0.011	0.008	177°
DU1317	0.003	0.002	151°
DU1317_Static_Good	0.012	0.011	126°
GCP1072	0.008	0.005	170°
GCP409	0.012	0.010	19°
GCPA03	0.005	0.004	9°

GCPA04	0.006	0.004	8°
GCPA05	0.008	0.006	7°
GCPA06	0.006	0.004	19°
GCPA07	0.005	0.004	5°
GCPA08	0.006	0.004	158°
GCPB03	0.005	0.004	132°
GCPB04	0.006	0.005	169°
GCPB05	0.005	0.004	167°
GCPB06	0.008	0.007	5°
GCPB07	0.005	0.004	16°
GCPB072	0.005	0.004	29°
GCPB08	0.007	0.006	179°
GCPC03	0.005	0.004	9°
GCPC04	0.006	0.005	0°
GCPC05	0.005	0.004	174°
GCPC06	0.008	0.006	13°
GCPC07	0.006	0.004	176°
GCPC08	0.007	0.006	17°
GCPD03	0.004	0.004	174°
GCPD04	0.005	0.004	1°
GCPD05	0.007	0.005	11°

GCPD06	0.004	0.003	8°
GCPD08	0.006	0.005	11°
GCPD09	0.006	0.005	13°
GCPE01	0.008	0.006	171°
GCPE02	0.006	0.005	4°
GCPE03	0.005	0.004	4°
GCPE04	0.004	0.003	178°
GCPE05	0.008	0.006	176°
GCPE06	0.006	0.004	172°
GCPE07	0.005	0.004	127°
GCPE08	0.006	0.005	109°
GCPE09	0.007	0.004	178°
GCPE10	0.006	0.004	3°
GCPE11	0.005	0.004	2°
GCPF04	0.007	0.007	164°
GCPF04_RE_Static_Use_RTK	0.017	0.013	52°
GCPF05	0.006	0.005	169°
GCPF06	0.010	0.006	178°
GCPF07	0.005	0.004	2°
GCPF08	0.006	0.004	171°
GCPF09	0.006	0.004	2°

GCPF10	0.005	0.004	173°
GCPF11	0.005	0.004	178°
GCPF12	0.005	0.004	172°
GCPG05	0.009	0.007	170°
GCPG06	0.006	0.004	141°
GCPG07	0.011	0.010	18°
GCPG08	0.006	0.004	10°
GCPG09	0.006	0.004	9°
GCPG10	0.005	0.004	13°
GCPG11	0.004	0.003	172°
GCPG12	0.004	0.004	10°
GCPG122	0.008	0.006	7°
GCPG13	0.014	0.006	123°
GCPG13R_Static_Good	0.017	0.012	1°
GCPH05	0.007	0.005	175°
GCPH06	0.007	0.005	12°
GCPH062	0.005	0.004	174°
GCPH07	0.012	0.010	16°
GCPH08	0.011	0.008	6°
GCPH09	0.008	0.007	9°
GCPH10	0.009	0.006	172°

GCPH11	0.008	0.005	171°
GCPH112	0.007	0.004	170°
GCPH122R	0.007	0.006	13°
GCPH12R	0.005	0.004	14°
GCPI05	0.008	0.006	167°
GCPI06	0.003	0.003	161°
GCPI07	0.012	0.009	173°
GCPI08	0.008	0.006	175°
GCPI09	0.013	0.009	5°
GCPI10	0.009	0.006	174°
GCPI11	0.013	0.008	178°
GCPI12	0.004	0.003	11°
GCPI12_Static_Get_OPUS	0.014	0.010	10°
GCPI13	0.016	0.013	17°
GCPJ05	0.008	0.006	7°
GCPJ06	0.007	0.006	172°
GCPJ07	0.005	0.004	11°
GCPJ08	0.009	0.007	176°
GCPJ09	0.003	0.002	8°
GCPJ10	0.008	0.006	16°
GCPJ11R	0.006	0.004	3°

GCPJ12	0.004	0.003	171°
GCPJ13R	0.005	0.005	55°
GCPK07	0.008	0.006	177°
GCPK08	0.006	0.004	174°
GCPK09	0.005	0.004	177°
GCPK10	0.011	0.006	16°
GCPK11	0.007	0.005	169°
GCPK12	0.005	0.004	166°
GCPK13	0.015	0.011	180°
GCPL09	0.008	0.006	12°
GCPL09R	0.006	0.005	14°
GCPL10	0.007	0.006	12°
GCPL11	0.005	0.004	167°
HOTELAM1001	0.006	0.006	8°
HOTELAM1002	0.007	0.006	12°
HOTELAM927	0.010	0.006	66°
HOTELAM928	0.007	0.005	44°
HOTELAM929	0.008	0.005	16°
HOTELAM930	0.006	0.005	53°
HOTELPM1001	0.006	0.004	15°
HOTELPM1002	0.011	0.009	15°

HOTELPM927	0.005	0.004	11°
HOTELPM928	0.012	0.010	173°
HOTELPM929	0.006	0.004	178°
HOTELPM930	0.013	0.010	105°
NVA400	0.010	0.006	173°
NVAA03	0.005	0.004	10°
NVAA04	0.011	0.007	11°
NVAA05	0.005	0.005	18°
NVAA06	0.008	0.006	8°
NVAA07	0.004	0.003	0°
NVAA08	0.005	0.004	155°
NVAB03	0.004	0.004	140°
NVAB04	0.006	0.005	170°
NVAB05	0.005	0.005	164°
NVAB06	0.005	0.004	167°
NVAB07	0.005	0.004	29°
NVAB08	0.004	0.004	6°
NVAC03	0.006	0.006	129°
NVAC04	0.006	0.004	172°
NVAC05	0.006	0.004	174°
NVAC06	0.005	0.004	149°

NVAC062	0.005	0.004	143°
NVAC07	0.006	0.005	166°
NVAC08	0.006	0.005	9°
NVAC09	0.006	0.005	171°
NVAD03	0.005	0.004	7°
NVAD04	0.004	0.003	177°
NVAD05	0.007	0.005	0°
NVAD06	0.008	0.005	2°
NVAD07	0.005	0.004	16°
NVAD08	0.009	0.006	174°
NVAE03	0.005	0.004	160°
NVAE03_Static_Good	0.020	0.011	130°
NVAE04	0.006	0.004	7°
NVAE05	0.007	0.006	9°
NVAE06	0.005	0.004	1°
NVAE07	0.003	0.003	6°
NVAE08	0.004	0.004	172°
NVAF01	0.008	0.006	177°
NVAF02	0.006	0.005	4°
NVAF03	0.005	0.004	5°
NVAF04	0.005	0.004	176°

NVAF05	0.005	0.004	172°
NVAF06	0.006	0.004	174°
NVAF07	0.007	0.005	127°
NVAF08	0.005	0.005	132°
NVAF092	0.006	0.005	103°
NVAF11	0.005	0.004	3°
NVAG04	0.006	0.005	163°
NVAG05	0.006	0.004	2°
NVAG052	0.006	0.004	3°
NVAG06	0.006	0.004	11°
NVAG07	0.005	0.004	14°
NVAG08	0.008	0.005	171°
NVAG09	0.006	0.004	1°
NVAG10	0.004	0.003	179°
NVAG10_Static_Good	0.013	0.011	157°
NVAG102	0.004	0.003	174°
NVAG11	0.005	0.004	176°
NVAG122	0.005	0.004	177°
NVAH05	0.005	0.004	15°
NVAH06	0.005	0.004	179°
NVAH06R	0.005	0.003	168°

NVAH07	0.011	0.007	4°
NVAH08	0.006	0.005	8°
NVAH082	0.006	0.005	5°
NVAH09	0.004	0.003	168°
NVAH10	0.005	0.004	1°
NVAH102	0.006	0.004	3°
NVAH11	0.007	0.005	174°
NVAH112	0.006	0.005	177°
NVAH12	0.005	0.004	173°
NVAH13	0.005	0.004	8°
NVAI05R	0.006	0.004	169°
NVAI06R	0.006	0.004	141°
NVAI07	0.006	0.005	140°
NVAI08	0.004	0.003	3°
NVAI08_a	0.007	0.005	180°
NVAI09	0.023	0.006	92°
NVAI09_Static_Good	0.017	0.013	46°
NVAI10	0.005	0.004	13°
NVAI11	0.009	0.006	173°
NVAI12	0.007	0.005	7°
NVAI122	0.009	0.006	2°

NVAI13	0.011	0.007	121°
NVAI13R	0.004	0.003	3°
NVAJ06	0.007	0.005	177°
NVAJ06_a	0.006	0.006	137°
NVAJ07	0.006	0.004	15°
NVAJ08	0.009	0.007	1°
NVAJ09	0.012	0.009	8°
NVAJ10	0.005	0.004	173°
NVAJ11	0.009	0.006	171°
NVAJ12	0.008	0.006	171°
NVAJ122	0.010	0.007	170°
NVAJ13R	0.007	0.005	14°
NVAJ14R	0.006	0.005	144°
NVAK06	0.003	0.003	161°
NVAK07	0.008	0.006	170°
NVAK08	0.007	0.005	169°
NVAK09	0.010	0.007	174°
NVAK10	0.010	0.007	4°
NVAK11	0.008	0.005	175°
NVAK12	0.014	0.008	179°
NVAK13	0.005	0.004	28°

NVAK14R	0.014	0.009	18°
NVAL06	0.007	0.005	167°
NVAL07	0.009	0.007	173°
NVAL08	0.012	0.009	4°
NVAL09	0.005	0.005	33°
NVAL10	0.006	0.005	172°
NVAL11	0.008	0.006	172°
NVAL12_R	0.007	0.005	2°
NVAL13	0.008	0.007	1°
NVAL14	0.009	0.008	66°
NVAM06	0.010	0.007	5°
NVAM07	0.007	0.005	14°
NVAM08	0.005	0.004	173°
NVAM09	0.003	0.003	8°
NVAM10	0.006	0.005	7°
NVAM11	0.007	0.005	15°
NVAM12R	0.006	0.005	12°
NVAM13	0.005	0.005	167°
NVAM142R	0.015	0.010	161°
NVAM14R	0.009	0.008	172°
NVAN07R	0.009	0.006	176°

NVAN08R	0.011	0.009	0°
NVAN09	0.007	0.006	1°
NVAN10	0.008	0.006	6°
NVAN102	0.008	0.006	9°
NVAN11	0.008	0.004	179°
NVAN12R	0.007	0.004	1°
NVAN13R	0.006	0.005	140°
NVAN14	0.008	0.007	64°
NVAO10R	0.009	0.008	12°
NVAO11	0.005	0.004	169°
PLT001	0.004	0.003	1°
PLT001_alt	0.006	0.004	3°
PLT002	0.006	0.005	24°
PLT002_alt	0.006	0.005	142°
PLT003	0.004	0.004	11°
PLT004	0.005	0.004	165°
PLT005	0.008	0.005	28°
PLT005_alt	0.004	0.003	27°
PLT006	0.005	0.004	11°
PLT007	0.005	0.004	29°
PLT008	0.006	0.005	157°

PLT009	0.005	0.005	131°
PLT010	0.006	0.004	11°
PLT010_alt	0.006	0.004	9°
PLT011	0.004	0.003	176°
PLT011_alt	0.005	0.005	8°
PLT012	0.005	0.005	17°
PLT013	0.005	0.004	128°
PLT014	0.005	0.005	23°
PLT015	0.006	0.004	14°
PLT016	0.005	0.004	148°
PLT017	0.005	0.004	52°
PLT018	0.005	0.005	32°
PLT019	0.009	0.007	0°
PLT020	0.008	0.006	177°
PVA001	0.006	0.005	150°
PVA002	0.005	0.004	162°
PVA003	0.009	0.007	164°
PVA005	0.009	0.007	126°
PVA005_ALT	0.005	0.004	130°
RTN_AZAJ	0.001	0.001	19°
RTN_AZCG	0.002	0.001	155°

RTN_AZCK	0.002	0.001	162°
RTN_AZGE	0.001	0.001	134°
RTN_AZMA	0.001	0.001	151°
RTN_AZPX	0.001	0.001	158°
RTN_AZS1	0.001	0.001	141°
RTN_AZTH	0.001	0.001	114°
RTN_AZWB	0.001	0.001	132°
RTN_COOL	0.002	0.001	131°
VVA_ALT_sm1	0.007	0.005	176°
VVA_ALT_sm2	0.008	0.006	165°
VVA_ALT_sm3	0.007	0.005	177°
VVA_ALT_sm4	0.008	0.006	6°
VVA_ALT_sm6	0.007	0.006	171°
VVA005	0.009	0.005	167°
VVAA03	0.007	0.005	11°
VVAA04	0.006	0.004	5°
VVAA06	0.010	0.006	14°
VVAA07	0.008	0.005	5°
VVAA08	0.015	0.010	157°
VVAB03	0.005	0.004	144°
VVAB04	0.009	0.006	167°

VVAB05	0.006	0.005	165°
VVAB06	0.007	0.005	5°
VVAB07	0.008	0.007	179°
VVAC04	0.005	0.004	175°
VVAC042	0.006	0.005	5°
VVAC06	0.010	0.008	11°
VVAC07	0.010	0.006	176°
VVAC08	0.007	0.006	30°
VVAD03	0.004	0.004	2°
VVAD04	0.005	0.004	169°
VVAD05	0.008	0.005	5°
VVAD052	0.006	0.004	156°
VVAD06	0.005	0.003	171°
VVAD07	0.009	0.006	178°
VVAD08	0.006	0.004	173°
VVAD082	0.009	0.007	18°
VVAE01	0.014	0.004	164°
VVAE012	0.007	0.005	5°
VVAE02	0.006	0.005	7°
VVAE03	0.008	0.006	2°
VVAE04	0.003	0.003	160°

VVAE07	0.008	0.005	1°
VVAE072	0.008	0.006	180°
VVAE073	0.009	0.006	177°
VVAF01	0.009	0.008	103°
VVAF02	0.010	0.007	57°
VVAF022	0.006	0.005	17°
VVAF032	0.005	0.004	115°
VVAF06	0.007	0.005	163°
VVAF062	0.007	0.005	162°
VVAF063	0.005	0.004	164°
VVAF07	0.007	0.005	169°
VVAF08	0.012	0.008	166°
VVAF09	0.006	0.004	5°
VVAF10	0.005	0.003	173°
VVAF11	0.006	0.005	165°
VVAF112	0.010	0.005	163°
VVAG05	0.008	0.007	27°
VVAG06	0.008	0.005	178°
VVAG062	0.013	0.005	8°
VVAG07	0.014	0.005	30°
VVAG08	0.010	0.006	167°

VVAG09	0.009	0.007	179°
VVAG092	0.004	0.003	10°
VVAG10	0.008	0.006	178°
VVAH05	0.006	0.005	170°
VVAH06	0.006	0.005	140°
VVAH07	0.007	0.005	4°
VVAH08	0.006	0.005	179°
VVAH09	0.006	0.005	12°
VVAH10	0.009	0.007	177°
VVAH102	0.008	0.007	12°
VVAH11	0.007	0.005	10°
VVAH12	0.004	0.003	1°
VVAI05	0.005	0.004	174°
VVAI06	0.005	0.004	179°
VVAI07	0.008	0.007	9°
VVAI08	0.007	0.006	10°
VVAI09	0.006	0.005	175°
VVAI10	0.007	0.005	171°
VVAI11	0.005	0.004	178°
VVAI12	0.007	0.006	5°
VVAI13	0.014	0.012	3°

VVAJ05	0.006	0.006	86°
VVAJ052	0.004	0.004	3°
VVAJ06	0.007	0.005	172°
VVAJ07	0.007	0.005	167°
VVAJ08	0.008	0.006	174°
VVAJ09	0.011	0.008	8°
VVAJ10	0.011	0.008	173°
VVAJ11	0.006	0.005	16°
VVAJ12	0.018	0.014	46°
VVAK05	0.009	0.006	13°
VVAK06	0.006	0.004	8°
VVAK07	0.009	0.007	5°
VVAK08	0.004	0.003	12°
VVAK09	0.007	0.006	180°
VVAK10	0.007	0.005	15°
VVAK11	0.010	0.008	23°
VVAK12	0.006	0.005	173°
VVAL06	0.004	0.003	177°
VVAL07	0.013	0.010	5°
VVAL08	0.006	0.005	178°
VVAL09	0.006	0.005	10°

VVAL092	0.006	0.005	9°
VVAL10	0.006	0.004	177°
VVAL11	0.006	0.004	7°
VVAL12	0.006	0.005	3°
VVAL13	0.006	0.004	11°
VVAM092	0.006	0.005	5°
VVAM10	0.005	0.004	166°