



Project Report

Yolo County Subsidence Network 2024 Reobservation

November, 2024

Introduction

Purpose

The purpose of the project is to reobserve the 60-station Yolo County Subsidence Network (YCSN) in order to inform the assessment of land subsidence in the county. The previous monitoring event, which occurred in 2017, was conducted by the California Department of Water Resources (DWR) as part of a larger effort that covered much of the Sacramento Valley. The 2024 work was performed by Frame Surveying & Mapping (Davis, CA) under contract to the Yolo Subbasin Groundwater Agency (Woodland, CA).

Location

The project is located in Yolo County, California and covers all of the valley areas of the county. Two of the project stations (JIMENO RM 4 and COURTLAND) are located in Colusa and Sacramento Counties, respectively, but both are very close to the Yolo County line.

Time Period

Reconnaissance commenced on March 7, 2024 and was completed on April 15, 2024. Observations began on May 23, 2024 and concluded on October 2, 2024.

Network Design

A network diagram is attached as Appendix A. (Note that project stations in this report are generally referred to by the 4-character identifiers shown in Appendix A.) A list of project stations is attached as Appendix B. Station descriptions are provided in Appendix K.

Points of Contact

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Technical Approach

Accuracy Standard

The field work was conducted according to the National Geodetic Survey (NGS) specifications for a 3 cm ellipsoid height project as shown in NOAA Technical Memorandum NOS NGS 92 (Classification, Standards, and Specifications for GNSS Geodetic Control Surveys using OPUS Projects). The intent was to use the NGS web application OPUS Projects (OP) to process and adjust the project GNSS data, making use of the GNSS Vector Exchange (GVX) file format. However, as explained below, unexpected complications ultimately required that the processing and adjustment be accomplished without using OP except in limited fashion.

Appendix C shows the OPUS Projects methods and quality control targets, excerpted from the NOS NGS 92 document.

Network Configuration

The network as observed for this project includes 7 new stations. 4 of these – PLEA, WAPT, WILX, and YAPT – have never been observed as part of the Yolo Subsidence Network. Additional observations were taken at temporary offset stations (explained below under the heading **Obstructed Stations**).

PLEA is located on the Pleasants Valley Road bridge over Putah Creek west of Winters.

WILX is a replacement for MADZ, which was obliterated during construction of the Highway 16 roundabout in Madison. Caltrans transferred an elevation via differential leveling from MADZ to WILX in 2017 prior to demolition of the intersection, so the height history of MADZ has been preserved.

WAPT and YAPT are replacements for WOOD and YCAP, respectively. The latter 2 stations are/were located within the secured perimeters of the Woodland-Watts and Yolo County airports, respectively.

The other 3 new stations are existing marks that have not been part of the Yolo network before: BROO, GUIN and RUMS. All 3 of these stations are in the Capay Valley, and were established by Caltrans in 2004.

Data Collection

Observations mostly consisted of 5-minute Real-Time Network (RTN) sessions. The CSVSN GNSS Real-Time Network, a Virtual Reference Station (VRS) RTN operated by California Surveying & Drafting Supply (Sacramento, CA), provided the RTN corrections. A Trimble R8-3 integrated GNSS receiver connected to a Trimble TSC7 running Trimble Access v23.00 was used for the RTN observations. All RTN observations were stored as Network RTK (NRTK) vectors from the RTN base stations to the rover receiver.

The RTN base stations used were LD1K (Lodi, CA), VV1I (Vacaville, CA), WD1J (Woodland, CA), and WI1H (Williams, CA), which are not part of the National Oceanic and Atmospheric Administration Continuously Operating Reference Stations Network (NCN). Daily observation files from the RTN base stations were submitted to the NGS Online Positioning User Service (OPUS) for processing.

RTN sessions were taken using a fixed-height pole with bipod, with the receiver's Man-Machine Interface (MMI) facing north. With the exception of one station, the pole height was 1.576 m from pole point to Antenna Reference Point (ARP), which in this case is the bottom of the antenna mount. The one exception occurred at station FERRY, which is located about 2 feet below grade and adjacent to a large electric transformer cabinet. In order to get the antenna above the transformer cabinet, a 1.219 m (4.000 feet) extension was added to the 1.576 m pole, resulting in an ARP height of 2.795 m for all observations taken at FERRY.

OPUS-S (long-duration) RTN validation sessions were conducted using Trimble 4000SSi receivers and Trimble Zephyr Geodetic (TRM41249.00) antennas mounted on Seco 2.000 m fixed-height tripods, with the antenna receiver connector (RXC) facing north. OPUS-S sessions were taken at ANDR (6+ hours), BIRD (7+ hours), CALD (7+ hours), COUR (4+ hours), DAVE (4+ hours), RUMS (5+ hours), and WOOD (7+ hours).

30-minute observations used to supplement the NRTK data at some stations was collected using the same R8-3 receiver used for the RTN sessions. These are referred to as Post-Processed (PP) observations in keeping with the GVX convention. These observations made use of NCN station P206 (located near Middletown, Lake County, CA) and Bay Area Deformation Network station UCD1 (located on the UC Davis campus).

The location of station BIRD proved to be challenging for cellular data access, and only 1 NRTK observation was successfully collected there. Because a 7-hour OPUS-S observation was taken at, BIRD, a 30-minute PP observation was taken to supplement the OPUS-S and NRTK vectors in order to provide sufficient redundancy.

The observation schedule is attached as Appendix D.

Airport Marks

Two stations in the 1999 YCSN configuration were located on airport grounds. WOOD is located at the Woodland-Watts Airport, a privately-owned facility west of Woodland, and YOLO COUNTY AIRPORT BASELINE POINT 6 was located at the Yolo County Airport, a public facility west of Davis. However, access to airports has become increasingly difficult in the intervening years, rendering these stations difficult to use due to the administrative procedures required to schedule access. One goal of the 2024 project was to transfer the ellipsoid heights from these two marks to new marks outside the fenced airport perimeters so that they are readily accessible by users.

The process for accomplishing the transfer at Woodland-Watts Airport was to establish a new station (WAPT) as close to the site as was feasible without installing a costly driven-rod mark, and to use WOOD as an RTN validation station, obtaining a long-duration OPUS-S occupation there in addition to the required NRTK observations. This approach minimized the number of airport access events, since two of the NRTK observations were obtained on the same day, one before and one after the OPUS-S session.

Unfortunately, the plan to simultaneously observe both YOLO COUNTY AIRPORT BASELINE POINT 6 and its offsite replacement was frustrated by the destruction of the former during a recent taxiway widening. The obliteration was discovered during the reconnaissance phase of the project. The new mark (YAPT) was established offsite as planned, but a simultaneous observation at YOLO COUNTY AIRPORT BASELINE POINT 6 was not possible.

Obstructed Stations

Five of the project stations (1699, ALHA, COY1, FREM and GAFF) are no longer suitable for direct satellite observations. At four of them this is due to tree overgrowth that blocks or delays the GNSS signals. At COY1 the cause is a box semi-trailer that is parked semi-permanently immediately adjacent to the station, completely blocking the sky view to the south. In all of these cases it was necessary to use an offset station with good sky view for the GNSS observations, then transfer the height measurement to the station via the GeoMax instrument. The transfer measurements were relatively short (between 15 and 215 feet), so they contribute little to the vertical error at these stations. At GAFF the transfer measurement taken in 2016 was used, as the offset marker (GAF2) is stable with respect to, and less than 50 feet from, GAFF.

Instrumentation

The following equipment was used for project observations:

RTN observation instrument: Trimble R8 Model 3 S/N 5034445889

PP observation instrument: Trimble R8 Model 3 S/N 5034445889

OPUS-S observation instruments:

Trimble 4000SSi S/N 3719A19275

Trimble 4000SSi S/N 3448A08932

Trimble Zephyr Geodetic 41249.00 antenna S/N 60046590

Trimble Zephyr Geodetic 41249.00 antenna S/N 12589839

Terrestrial observation instrument: GeoMax Zoom80R 2-second robotic total station with Leica GMP101 mini-prism.

Data Processing and Adjustment

The GNSS project data were intended to be processed and adjusted using OP exclusively. However, efforts to process all of the GNSS data through OP failed repeatedly. (In the words of one NGS staffer about the OP project, "everything causes it to crash and none of us know why.") These complications dictated that another approach be followed in order to deliver the project in a reasonable time frame. The method chosen was to import all of the GNSS observations into Trimble Business Center, process the vectors, and then export the vector data for adjustment in Star*Net along with the terrestrial data.

OP was used successfully to adjust the RTN base station data; the OPUS Projects RTN base station adjustment report in abbreviated form is provided in Appendix E. The OP adjusted positions of the base stations were constrained in the Star*Net adjustment at 1.0 cm in all 3 dimensions. The resulting Star*Net adjustment standard error of unit weight is 0.993; for GNSS vectors alone (i.e. excluding terrestrial measurements) it is 1.033. These figures indicate a statistically sound adjustment.

The target ellipsoid height accuracy (3 cm, interpreted to mean less than 0.035 m) was met at 45 of the 60 network stations. At the remaining 15 stations, the ellipsoid height accuracy ranges from 0.035 m to 0.047 m. (All stated accuracies are calculated at the 95% confidence level.) While additional observations can likely improve the results at the over-target stations, the additional cost may not be justified.

Estimated ellipsoid height errors are shown in Appendix F. The complete Star*Net adjustment report is provided in Appendix G. A list of adjusted station positions is attached as Appendix H.

Ellipsoid Height Changes Since 2017

The 2017 survey conducted by DWR serves as the basis for ellipsoid height changes. Appendix I lists the changes between 2017 and 2024, and Appendix J shows height change contours based on the data in Appendix I.

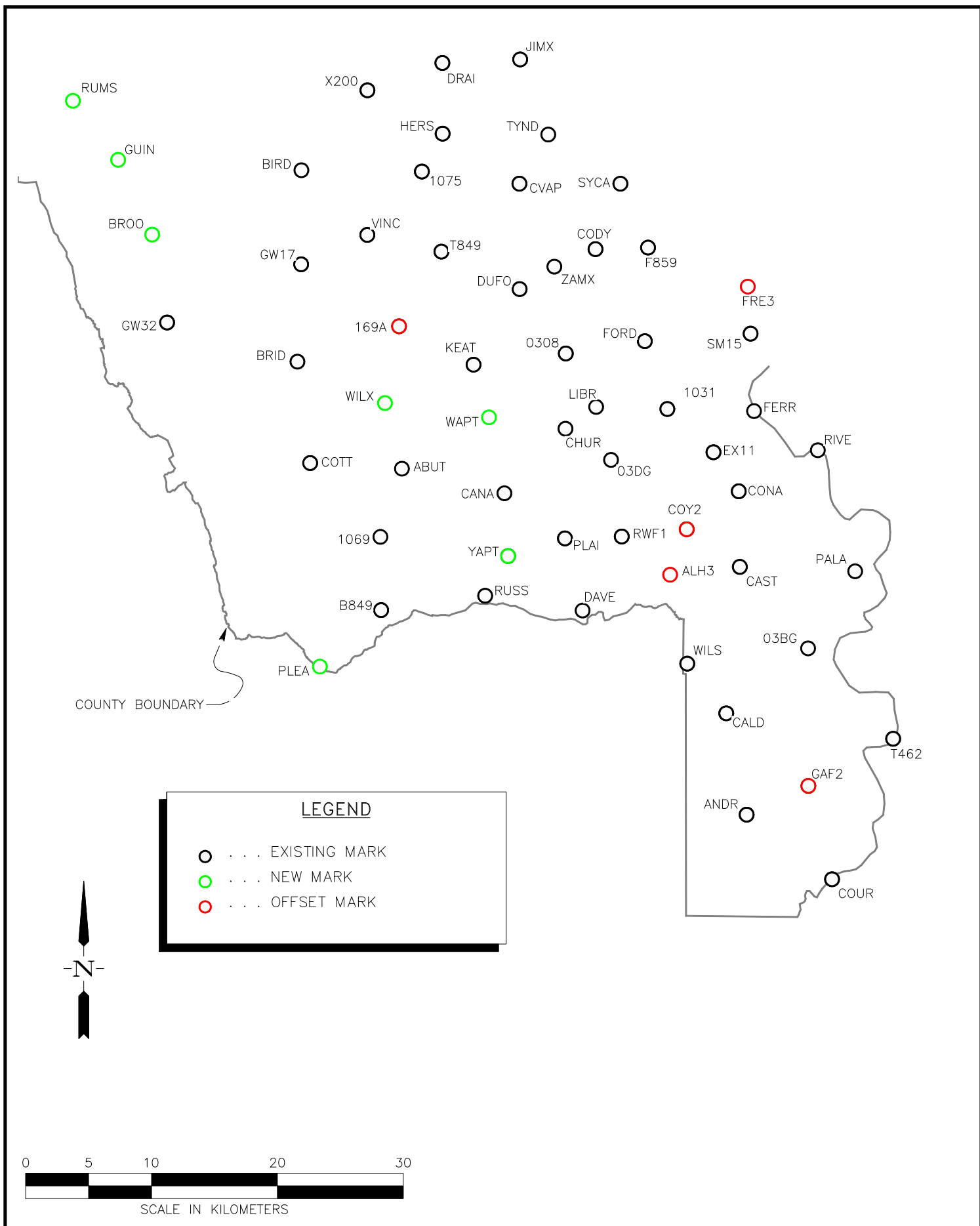
Stations BROO, GUIN and RUMS were not included in the 2017 DWR survey. However, Caltrans established ellipsoid heights at these stations in 2012. The change from 2012 to 2024 was pro-rated to 2017 in the calculation shown in Appendix I.

Station WILX was not included in the DWR survey, so the 2017 height as transferred by Caltrans from MADZ to WILX was used for the change comparison shown in Appendix I.

Respectfully submitted,

A handwritten signature in black ink, consisting of a vertical line on the left, a horizontal line extending to the right, and a large, stylized loop on the right side.

Jim Frame



Appendix B – Station List

Station Name	4-Char ID	NGS PID
169	1699	JS2170
169A	169A	(NONE)
ABUT	ABUT	AI5050
ALH3	ALH3	(NONE)
ALHAMBRA	ALHA	AI5051
ANDREW	ANDR	AE9864
B 849	B849	JS2151
BIRD	BIRD	AI5052
BRIDGE	BRID	AI5053
BROOKS	BROO	DH6511
CALDWELL	CALD	AE9863
CANAL	CANA	AI5054
CASTRO AZ MK RESET	CAST	JS4556
CHURCH	CHUR	AI5055
CODY	CODY	AI5056
CONAWAY	CONA	AI5057
COTTON	COTT	AI5058
COURTLAND	COUR	JS4311
COY2	COY2	(NONE)
COY DUMP	COY1	AI5059
CVAP 02	CVAP	AI5060
DAVEPORT	DAVE	JS4617
DRAIN	DRAI	AI5061
DUFOUR	DUFO	JS2238
EX 1	EX11	AI5073
F 859 RESET	F859	AI5062
FERRY	FERR	JS2338
FORD RM 2	FORD	AI5046
FRE3	FRE3	(NONE)
FREMONT	FREM	AI5063
GUINDA	GUIN	DH6512
GAF2	GAF2	(NONE)
GAFFNEY	GAFF	AE9851
GWM 17	GW17	JT0105
GWM 32	GW32	JT0026
HERSHEY	HERS	AI5064
HPGN CA 03 08	0308	JS4668
HPGN D CA 03 BG	03BG	AC9219
HPGN D CA 03 DG	03DG	AC9223
JIMENO RM 4	JIMX	AI5047
KEATON	KEAT	AI5065
LIBRARY	LIBR	AI5066
P 1031	1031	JS2344
P 1075	1075	JS2130
PALA	PALA	DH6510
PLAINFIELD	PLAI	AI5068

Appendix B – Station List

RIVER	RIVE	AI5069
RUMSEY	RUMS	DH6513
RUSSELL RANCH 2	RUSS	AC9893
RWF1	RWF1	DK4487
SM NO 15	SM15	AI5070
SYCAMORE	SYCA	AI5071
T 1069	1069	JS2157
T 462	T462	JS1556
T 849	T849	JS2177
TYNDALL	TYND	AI5072
VINCOR	VINC	DE9127
WAPT	WAPT	(NONE)
WILLOW	WILX	(NONE)
WILSON	WILS	AE9857
WOODPORT	WOOD	JS3886
X 200 RESET	X200	JS2144
YOLO CO AP BASE LINE PT 6	YCAP	DE9129
YAPT	YAPT	(NONE)
ZAMX	ZAMX	AI5074
PLEASANT	PLEA	(NONE)

Classifications of Intended Network and Local Accuracies

NGS defines the following **Classifications of Intended Network and Local Accuracy** for GNSS geodetic control surveys that will be submitted to NGS for review and publication (see Table 1 — Classifications of Intended Network and Local Accuracy). By following the requirements of Tables 2 through 10 the surveyor should expect to achieve the intended accuracies shown in Table 1. Since actual surveys sometimes do not achieve the intended accuracies, NGS will review any submitted survey that at least meets the requirements of the LOCAL Classification. In keeping with current practice, the NGS Datasheet will not designate a Classification on the datasheet.

Table 1 — Classifications of Intended Network and Local Accuracy

	Description	PRIMARY	SECONDARY	LOCAL
1.1	Ellipsoid Height (cm) *	2 cm	3 cm	5 cm
1.2	Horizontal (cm) *	1 cm	1.5 cm	2.5 cm
1.3	Orthometric Height (cm) *	3 cm	4 cm	6 cm

* Network and Local Accuracies are stated at the 95% confidence level.

Table 4 — Standards for Observation Requirements by Method

	Requirement	PRIMARY	SECONDARY	LOCAL
4.1	Requirements for ALL METHODS — Repeat occupations and offset time	Offset sessions/occupations by 3 to 21 hours.		
4.2	Requirements for OPUS PP — Required TOTAL Static GNSS Observation Time (T) and Recommended GNSS sessions	<p>T = 20 hours (for 0 to 200 km)</p> <p>(2) 10 hour sessions or (3) 7 hour sessions or (4) 5 hour sessions</p> <p>Requires at least 2 sessions, with at least 1 session on a different day</p>	<p>T = 8 hours (for 0 to 200 km) (2) 4 hour sessions</p> <p>T = 6 hours (for 0 to 150 km) (2) 3 hour sessions</p> <p>T = 4 hours (for 0 to 100 km) (2) 2 hour sessions</p> <p>Requires at least 2 sessions.</p>	<p>T = 4 hours (for 0 to 200 km) (2) 2 hour sessions</p> <p>Requires at least 2 sessions.</p>
4.3	Requirements for GVX PP — Number and duration of sessions	<p>3 sessions</p> <p>60 minutes each (for 0 to 25 km)</p> <p>90 minutes each (for 25 to 50 km)</p> <p>Requires at least 1 session on a different day.</p>	<p>3 sessions</p> <p>30 minutes each (for 0 to 25 km)</p> <p>60 minutes each (for 25 to 50 km)</p>	<p>3 sessions</p> <p>15 minutes each (for 0 to 25 km)</p> <p>30 minutes each (for 25 to 50 km)</p>
4.4	Requirements for GVX NRTK — Number and duration of occupations	<p>(6) 5 minutes</p> <p>Requires at least 3 occupations on a different day.</p>	<p>(3) 5 minutes</p>	<p>(3) 5 minutes</p>
4.5	Requirements for GVX SRTK — Number and duration of occupations	<p>Not allowed</p>	<p>(5) 5 minutes</p> <p>Requires at least 2 occupations on a different day.</p>	<p>(4) 5 minutes</p> <p>Requires at least 1 occupation on a different day.</p>

Table 7 — Standards for Session Processing and Adjustment Results

	Requirement	PRIMARY	SECONDARY	LOCAL
7.1	Achieved Network Accuracy, less than or equal to HORIZ (cm) 1.0 UP (cm) 2.0 ORTHO (cm) 3.0		1.5 3.0 4.0	2.5 5.0 6.0
7.2	Achieved Local Accuracy, less than or equal to HORIZ (cm) 1.0 UP (cm) 2.0 ORTHO (cm) 3.0		1.5 3.0 4.0	2.5 5.0 6.0
7.3	Peak-to-peak Coordinate Comparison, less than or equal to NORTH (cm) 3.0 EAST (cm) 3.0 UP (cm) 6.0		4.0 4.0 8.0	5.0 5.0 10.0
7.4	Maximum Residuals per Vector, less than or equal to, (in any adjustment) DN (cm) 1.5 absolute value DE (cm) 1.5 absolute value DU (cm) 3.0 absolute value		2.0 absolute value 2.0 absolute value 4.0 absolute value	2.5 absolute value 2.5 absolute value 5.0 absolute value
7.5	Statistical Checks from Constrained Adjustment - Horizontal Constrained Adjustment.txt file F-Statistic Test PASS Maximum Allowable Mark Constraint Ratio N: 3.0 E: 3.0 U: 3.0 - Vertical Constrained Adjustment.txt file F-Statistic Test PASS Maximum Allowable Mark Constraint Ratio N: n/a E: n/a U: 3.0			

Appendix D - Observation Schedule

Appendix C Observation Schedule

	06:00 AM	07:00 AM	08:00 AM	09:00 AM	10:00 AM	11:00 AM	12:00 PM	01:00 PM	02:00 PM	03:00 PM	04:00 PM	05:00 PM
1031		05/30 07:29					05/29 12:20			06/12 15:26		
1069	06/06 06:46				05/25 10:42				06/05 14:12			
1075			06/11 08:00	05/30 09:44	06/13 10:52				06/07 14:26			
1075					06/17 10:49							
169A		06/06 07:29		05/29 09:42	06/07 10:16				06/05 14:45			
ABUT		05/29 07:03			05/25 10:34			05/31 13:31				
ALH3	06/03 06:32			05/28 09:33	06/06 10:07				05/27 14:09			
ANDR			05/25 08:07		06/01 10:18	06/01 11:10				05/25 15:03		
ANDR (LD)			05/25 08:22									
B849		06/03 07:05				05/29 11:02		05/31 13:58				
BIRD											05/29 16:17	
BIRD (LD)			05/29 08:56									
BIRD (PP)			07/12 08:32									
BRID	06/11 06:12			05/27 09:54			06/11 12:51					
BROO				05/27 09:15		06/14 11:59				06/10 15:56		
BROO						06/17 11:47						
BROO (PP)		09/20 07:59							09/25 14:26			
CALD	06/10 06:29			06/01 09:51	05/23 10:43		06/06 12:55					
CALD (LD)			09/24 08:06									
CANA	05/29 06:41				05/25 10:09			05/31 13:10				
CAST	06/03 06:15			05/28 09:21				05/27 13:52				
CHUR		05/30 07:01				05/31 11:00			05/23 14:27			
CHUR (PP)				09/20 09:54							09/25 16:24	
CODY		06/11 07:12	05/30 08:32		06/10 10:15			06/07 13:16				
CONA		05/29 07:36				05/28 11:13			05/30 14:26			
COTT		06/06 07:04			05/29 10:23			06/05 13:45				
COUR	06/17 06:57	06/01 07:08			06/03 10:08				06/03 14:40			
COUR (LD)					06/03 10:23							
COUR (PP)		09/19 07:56							10/02 14:29			
COY2				05/28 09:03		07/08 11:05		05/27 13:34			06/05 16:31	
COY2 (PP)					07/08 10:33							
CVAP			06/07 08:03			05/30 11:01				06/08 15:07		
DAVE		05/28 07:09	05/23 08:58	05/25 09:03	05/31 10:35			05/23 13:40				
DAVE (LD)				05/23 09:16								
DRAI		06/12 07:05				05/27 11:00			06/07 14:47			
DUFO				05/30 09:04				06/07 13:45			06/13 16:42	
EX11		05/29 07:50				05/28 11:26			05/30 14:40			
F859			05/30 08:05			05/30 11:54				06/08 15:55		
FERR			06/06 08:30				06/05 12:51			06/04 15:56		
FERR (PP)					07/12 10:43							
FORD		05/30 07:45					05/30 12:08				06/08 16:10	
FRE3			06/11 08:46	06/06 09:02				06/08 13:40				06/13 17:32
GAF2		06/01 07:30			06/03 10:41					06/03 15:01		
GAF2 (PP)			09/19 08:50							09/26 15:18		
GUIN			05/27 08:44			06/14 11:38				06/10 15:30		
GW17					05/27 10:10			06/11 13:06		06/13 15:46		
GW17 (PP)				07/12 09:13								

Date/time of observation start is shown. (LD) indicates a long-duration observation (typically 4 hours or more); (PP) indicates a post-processed 1/2-hour observation; all others are 5-minute NRTK observations.

	06:00 AM	07:00 AM	08:00 AM	09:00 AM	10:00 AM	11:00 AM	12:00 PM	01:00 PM	02:00 PM	03:00 PM	04:00 PM	05:00 PM
GW32				05/27 09:33			06/14 12:33				06/10 16:16	
GW32 (PP)			09/20 08:46							09/25 15:14		
HERS	06/12 06:50				05/30 10:18					06/07 15:01		
JIME		06/07 07:41			05/30 10:44				06/08 14:49			
JIME (PP)				09/24 09:17				09/24 13:58				
KEAT		05/28 07:28				05/25 11:24				06/05 15:00		
LIBR			05/28 08:12				05/25 12:03		06/12 02:46	06/12 15:02		
LIBR (PP)						07/11 11:00						
PALA			06/01 08:28			06/03 11:35					06/03 16:07	
PLAI	05/30 06:43				05/28 10:38				05/23 14:03			
PLEA		06/03 07:30				05/29 11:05			05/31 14:23			
PLEA (PP)		07/12 07:21										
RIVE			06/01 08:54			06/03 11:57				06/04 15:02		
RUMS			05/27 08:23			06/14 11:09			06/10 14:54			
RUMS			06/10 08:36									
RUMS (LD)			06/10 08:59									
RUSS	05/29 06:18			05/25 09:32					05/31 14:54			
RWF1			05/28 08:46					05/17 13:18			06/04 16:36	
SM15				06/06 09:23				06/08 13:57				06/13 17:47
SM15				06/11 09:02								
SYCA			06/07 08:33			05/30 11:35				06/08 15:39		
T462		06/01 07:49			06/03 10:58					06/03 15:19		
T462 (PP)				09/19 09:40							10/02 16:04	
T849		06/11 07:31		05/30 09:22	06/13 10:17				06/07 14:03			
TYND			06/07 08:18			05/30 11:20				06/08 15:22		
VINC				05/29 09:17			06/11 12:22			06/13 15:37		
WAPT		05/27 07:36	05/23 08:28		05/25 10:54				05/23 14:45			
WILS	06/10 06:11			06/01 09:35		05/23 11:00	06/06 12:21					
WILX	06/11 06:31				05/29 10:01				06/05 14:29			
WOOD		05/23 07:51				05/25 11:08				05/23 15:15		
WOOD (LD)			05/23 08:09									
X200	05/28 06:59				05/27 10:44			06/10 13:24				
YAPT	05/28 06:19			05/25 09:53						05/30 15:10		
ZAMX	06/11 06:57		05/30 08:46		06/10 10:02			06/07 13:30				

Appendix E – OPUS Projects Adjustment Report

NGS OPUS-Projects 5.2.0 NETWORK ADJUSTMENT REPORT

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All coordinate accuracies reported here are 1x the formal uncertainties from the solution. For additional information: geodesy.noaa.gov/OPUS/Using_OPUS-Projects.html#accuracy

These positions were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

SUBMITTED BY: jhframe
SOLUTION FILE NAME: network-final-vertical-constrained.sum
SOLUTION SOFTWARE: ADJUST(6.4.3)
SOLUTION DATE: 2024-12-01T00:46:37 UTC
STANDARD ERROR OF UNIT WEIGHT: 1.125
F STATISTIC TEST: PASS (1.03 < 1.17 F CRITICAL @ 99% CONFIDENCE)
TOTAL NUMBER OF VECTORS: 429
TOTAL NUMBER OF MARKS: 77
NO-CHECK MARKS: bri2
CONSTRAINED MARKS: 1 HORIZONTAL, 9 VERTICAL

subt	N39:12:20.99669	W121:49:14.10399	645.96m	ORTHO	NAD_83(2011) @ 2010.0000
subt	0.26cm	0.41cm	1.16cm	NEU	SIGMAS
rums			151.1m	ORTHO	NAVD 88
rums			1.20cm	U	SIGMA
gw32			112.53m	ORTHO	NAVD 88
gw32			1.11cm	U	SIGMA
pala			12.96m	ORTHO	NAVD 88
pala			1.03cm	U	SIGMA
ohln			32.23m	ORTHO	NAVD 88
ohln			1.15cm	U	SIGMA
p206			314.08m	ORTHO	NAVD 88
p206			1.52cm	U	SIGMA
p256			2.19m	ORTHO	NAVD 88
p256			1.78cm	U	SIGMA
p267			14.94m	ORTHO	NAVD 88
p267			1.60cm	U	SIGMA
p268			7.94m	ORTHO	NAVD 88
p268			1.24cm	U	SIGMA
sacr			37.97m	ORTHO	NAVD 88
sacr			1.78cm	U	SIGMA

START TIME: 2024-05-23T00:00:00 GPS
STOP TIME: 2024-10-02T23:59:30 GPS

STANDARD DEVIATION SCALARS: 2 SOURCES
1) Trimble VRS HORIZONTAL: 5.275 UP: 3.428
2) OPUSProjects HORIZONTAL: 1.622 UP: 0.679

SESSION PROCESSING INCLUDED

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FREQUENCY: L1-ONLY TO ION-FREE [BY BASELINE LENGTH]
OBSERVATION INTERVAL: 30 s
ELEVATION CUTOFF: 15 deg
TROPO INTERVAL: 7200 s [PIECEWISE LINEAR PARAMETERIZATION]
DD CORRELATIONS: ON

Appendix E – OPUS Projects Adjustment Report

INCLUDED SOLUTION	RMS	SOFTWARE	RUN DATE
1) 2024-144 A	1.2 cm	page5(2008.25)	2024-11-22T21:18 UTC
2) 2024-146 A	1.1 cm	page5(2008.25)	2024-11-22T21:49 UTC
3) 2024-148 A	1.1 cm	page5(2008.25)	2024-11-22T21:44 UTC
4) 2024-149 A	1.2 cm	page5(2008.25)	2024-11-22T21:43 UTC
5) 2024-150 A	1.2 cm	page5(2008.25)	2024-11-22T21:45 UTC
6) 2024-151 A	1.2 cm	page5(2008.25)	2024-11-22T21:42 UTC
7) 2024-152 A	1.1 cm	page5(2008.25)	2024-11-22T21:44 UTC
8) 2024-153 A	1.1 cm	page5(2008.25)	2024-11-22T21:44 UTC
9) 2024-155 A	1.4 cm	page5(2008.25)	2024-11-22T21:46 UTC
10) 2024-156 A	1.2 cm	page5(2008.25)	2024-11-22T21:45 UTC
11) 2024-157 A	1.2 cm	page5(2008.25)	2024-11-22T21:45 UTC
12) 2024-158 A	1.3 cm	page5(2008.25)	2024-11-22T21:44 UTC
13) 2024-159 A	1.2 cm	page5(2008.25)	2024-11-22T21:45 UTC
14) 2024-160 A	1.3 cm	page5(2008.25)	2024-11-22T21:45 UTC
15) 2024-162 A	1.2 cm	page5(2008.25)	2024-11-22T21:46 UTC
16) 2024-163 A	1.2 cm	page5(2008.25)	2024-11-22T21:48 UTC
17) 2024-164 A	1.3 cm	page5(2008.25)	2024-11-22T21:47 UTC
18) 2024-165 A	1.2 cm	page5(2008.25)	2024-11-22T21:47 UTC
19) 2024-166 A	1.3 cm	page5(2008.25)	2024-11-22T21:48 UTC
20) 2024-190 A	1.1 cm	page5(2008.25)	2024-11-22T21:48 UTC
21) 2024-193 A	1.1 cm	page5(2008.25)	2024-11-22T21:48 UTC
22) 2024-194 A	1.1 cm	page5(2008.25)	2024-11-22T21:47 UTC
23) 2024-263 A	1.2 cm	page5(2008.25)	2024-11-22T21:48 UTC
24) 2024-268 A	1.1 cm	page5(2008.25)	2024-11-22T21:50 UTC
25) 2024-269 A	1.1 cm	page5(2008.25)	2024-11-22T21:49 UTC
26) 2024-276 A	1.1 cm	page5(2008.25)	2024-11-22T21:50 UTC

Appendix F – Station Ellipsoid Height Error Estimates

95% Confidence Level – Listed in order of decreasing error

Station	Estimated EH Height Error
03BG	0.047
COTT	0.044
GW32	0.042
RUSS	0.042
PLEA	0.041
TYND	0.041
PALA	0.040
1069	0.040
B849	0.040
BIRD	0.040
WILX	0.038
VINC	0.038
JIME	0.038
DRAI	0.037
SYCA	0.035
X200	0.034
RIVE	0.034
HERS	0.033
CVAP	0.033
T462	0.033
BRID	0.032
GAFF	0.031
CAST	0.031
ABUT	0.031
GUIN	0.031
T849	0.031
CONA	0.030
1699	0.029
CODY	0.028
FREM	0.028
COY1	0.028
GW17	0.028
F859	0.028
RWF1	0.027
CANA	0.027
YAPT	0.027
RUMS	0.027
KEAT	0.027
EX11	0.026
FERR	0.026
1075	0.025
WILS	0.025
ZAMX	0.025
ALHA	0.024
SM15	0.023
PLAI	0.023

Appendix F – Station Ellipsoid Height Error Estimates

DUFO	0.023
FORD	0.023
COUR	0.023
BROO	0.023
CALD	0.022
WAPT	0.022
ANDR	0.022
1031	0.022
DAVE	0.021
WOOD	0.019
0308	0.019
CHUR	0.018
03DG	0.015
LIBR	0.013

Appendix H – Star*Net Adjustment Report

MicroSurvey STAR*NET-PRO Version 11,0,6,2263
Run Date: Mon Nov 25 2024 14:43:57

Summary of Files Used and Option Settings

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Project Folder and Data Files

Project Name 9763-001
Project Folder D:\STAR
Data File List 1. 9763-001.dat
 2. 9763-001.gps

Project Option Settings

STAR*NET Run Mode : Adjust with Error Propagation
Type of Adjustment : 3D
Project Units : Meters; DMS
Coordinate System : CA83-II
Geoid Height Model : D:\STAR\MODELS\GEOID18.GHT
Longitude Sign Convention : Positive West
Input/Output Coordinate Order : North-East
Angle Data Station Order : From-At-To
Distance/Vertical Data Type : Slope/Zenith
Convergence Limit; Max Iterations : 0.010000; 99
Default Coefficient of Refraction : 0.070000
Create Coordinate File : Yes
Create Geodetic Position File : Yes
Create Ground Scale Coordinate File : No
Create Dump File : No
GPS Vector Standard Error Factors : None
GPS Vector Centering (Meters) : None
GPS Vector Transformations : None

Instrument Standard Error Settings

Company Library Instrument GeoMax
Note: GeoMax Zoom 80
Distances (Constant) : 0.004572 Meters
Distances (PPM) : 2.000000
Angles : 2.000000 Seconds
Directions : 2.000000 Seconds
Azimuths & Bearings : 2.000000 Seconds
Zeniths : 2.000000 Seconds
Elevation Differences (Constant) : 0.015240 Meters
Elevation Differences (PPM) : 0.000000
Centering Error Instrument : 0.001524 Meters
Centering Error Target : 0.001524 Meters
Centering Error Vertical : 0.001524 Meters

Appendix H – Star*Net Adjustment Report

Inline Option Usage Notes

GPS Vector Factor Default Modified by Inline Option

Summary of Unadjusted Input Observations

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Number of Entered Stations (Meters) = 8
(Elevations Marked with (*) are Ellipsoid Heights)

Partially Fixed	Latitude	Longitude	Elev	Description
	N-StdErr	E-StdErr	StdErr	
WD1J	38-40-29.915160 0.0100	121-46-03.076310 0.0100	0.5180* 0.0100	WD1J
VV1I	38-21-15.910320 0.0100	121-59-24.496620 0.0100	33.6110* 0.0100	VV1I
WI1H	39-09-20.355890 0.0100	122-08-58.736440 0.0100	1.7890* 0.0100	WI1H
LD1K	38-08-13.573550 0.0100	121-15-14.582970 0.0100	-6.8070* 0.0100	LD1K

Free Stations	N	E	Elev	Description
1	621850.0000	2031672.0000	13.0000	CONTROL NO GM
6	599075.0000	2025501.0000	12.5000	CONTROL NO GM
11	618800.0000	2003970.0000	52.0000	CONTROL NO GM
15	602665.0000	2026800.0000	8.0000	CONTROL NO GM

Number of Measured Angle Observations (DMS) = 7

From	At	To	Angle	StdErr	t-T
FRE3	1	FREMONT	196-35-39.00	47.54	0.00
FREMONT	1	FRE3	163-24-23.00	47.54	-0.00
ALH3	6	ALHAMBRA	169-42-50.00	52.72	-0.00
ALHAMBRA	6	ALH3	190-17-02.00	52.72	0.00
1699	11	169A	37-38-50.00	118.57	-0.00
COY2	15	COY1	304-30-02.00	31.64	-0.01
COY1	15	COY2	55-29-51.00	31.64	0.01

Number of Measured Distance Observations (Meters) = 22

From	To	Distance	StdErr	HI	HT	Comb Grid	Type
1	FRE3	64.4455	0.0052	1.524	1.524	0.9999329	S
1	FRE3	64.4455	0.0052	1.524	1.524	0.9999329	S
1	FRE3	64.4455	0.0052	1.524	1.524	0.9999329	S
1	FREMONT	39.1001	0.0051	1.524	1.524	0.9999330	S
1	FREMONT	39.1001	0.0051	1.524	1.524	0.9999330	S
1	FRE3	64.4437	0.0052	1.524	1.524	0.9999329	S
6	ALH3	10.1319	0.0051	1.524	1.524	0.9999594	S
6	ALH3	10.1319	0.0051	1.524	1.524	0.9999594	S
6	ALH3	10.1316	0.0051	1.524	1.524	0.9999594	S
6	ALHAMBRA	12.9272	0.0051	1.524	1.524	0.9999594	S
6	ALHAMBRA	12.9272	0.0051	1.524	1.524	0.9999594	S
6	ALH3	10.1319	0.0051	1.524	1.524	0.9999594	S
11	1699	4.7957	0.0051	1.524	1.585	0.9999296	S
11	1699	4.7960	0.0051	1.524	1.585	0.9999296	S
11	1699	4.7960	0.0051	1.524	1.585	0.9999296	S
11	169A	3.7426	0.0051	1.524	1.585	0.9999296	S

Appendix H – Star*Net Adjustment Report

15	COY2	16.0328	0.0051	1.524	0.163	0.9999551	S
15	COY2	16.0328	0.0051	1.524	0.163	0.9999551	S
15	COY2	16.0325	0.0051	1.524	0.163	0.9999551	S
15	COY1	18.0116	0.0051	1.524	0.163	0.9999551	S
15	COY1	18.0116	0.0051	1.524	0.163	0.9999551	S
15	COY2	16.0322	0.0051	1.524	0.163	0.9999551	S

Number of Zenith Observations (DMS) = 22

From	To	Zenith	StdErr	HI	HT
1	FRE3	89-12-56.00	40.96	1.524	1.524
1	FRE3	89-12-57.00	40.96	1.524	1.524
1	FRE3	89-12-56.00	40.96	1.524	1.524
1	FREMONT	91-08-25.00	11.54	1.524	1.524
1	FREMONT	91-08-21.00	11.54	1.524	1.524
1	FRE3	89-12-57.00	40.96	1.524	1.524
6	ALH3	90-29-14.00	26.44	1.524	1.524
6	ALH3	90-29-15.00	26.44	1.524	1.524
6	ALH3	90-29-15.00	26.44	1.524	1.524
6	ALHAMBRA	89-35-13.00	34.45	1.524	1.524
6	ALHAMBRA	89-35-13.00	34.45	1.524	1.524
6	ALH3	90-29-14.00	26.44	1.524	1.524
11	1699	88-38-59.00	92.73	1.524	1.585
11	1699	88-39-01.00	92.73	1.524	1.585
11	1699	88-39-01.00	92.73	1.524	1.585
11	169A	85-17-01.00	118.81	1.524	1.585
15	COY2	95-23-48.00	27.80	1.524	0.163
15	COY2	95-23-47.00	27.80	1.524	0.163
15	COY2	95-23-48.00	27.80	1.524	0.163
15	COY1	93-43-55.00	24.76	1.524	0.163
15	COY1	93-43-55.00	24.76	1.524	0.163
15	COY2	95-23-42.00	27.80	1.524	0.163

Number of Grid Azimuth/Bearing Observations (DMS) = 4

From	To	Bearing	StdErr
FREMONT	FRE3	S06-00-00.00E	FIXED
ALHAMBRA	ALH3	N45-00-00.00W	FIXED
11	169A	S90-00-00.00W	FIXED
15	COY2	S00-00-00.00E	FIXED

Number of GPS Vector Observations (Meters) = 255

From	DeltaX	StdErrX	CorrelXY	HI
To	DeltaY	StdErrY	CorrelXZ	HT
	DeltaZ	StdErrZ	CorrelYZ	
(V1 RTK 23-MAY-2024 14:51:09.0 9763-001 rtk.asc)				
WD1J	-7876.7261	0.0190	0.4945	0.000
WOOD	4604.5812	0.0205	0.0873	0.000
	-287.4866	0.0146	0.0998	
(V2 RTK 23-MAY-2024 15:28:47.0 9763-001 rtk.asc)				
WD1J	-8133.0210	0.0230	0.2832	0.000
WAPT	4098.4818	0.0322	0.0605	0.000
	-990.5597	0.0255	-0.0601	

Appendix H – Star*Net Adjustment Report

(V3 RTK 23-MAY-2024 15:58:29.0 9763-001 rtk.asc)				
WD1J	-6629.1498	0.0182	0.2319	0.000
DAVE	-7434.1816	0.0260	-0.1248	0.000
	-12308.2688	0.0283	-0.2710	
(V4 RTK 23-MAY-2024 17:44:12.0 9763-001 rtk.asc)				
VV1I	28582.8520	0.0343	0.2408	0.000
CALD	-9170.3801	0.0299	0.1491	0.000
	9086.8149	0.0240	0.1163	
(V5 RTK 23-MAY-2024 18:00:45.0 9763-001 rtk.asc)				
VV1I	27248.0352	0.0309	0.2288	0.000
WILS	-5457.4507	0.0279	0.1796	0.000
	12187.3937	0.0270	0.0288	
(V6 RTK 23-MAY-2024 20:39:58.0 9763-001 rtk.asc)				
WD1J	-6629.1979	0.0211	0.3993	0.000
DAVE	-7434.2327	0.0265	0.0560	0.000
	-12308.2787	0.0225	0.1591	
(V7 RTK 23-MAY-2024 21:02:52.0 9763-001 rtk.asc)				
WD1J	-5927.6722	0.0163	0.3764	0.000
PLAI	-3662.8267	0.0199	-0.0099	0.000
	-7822.1431	0.0162	0.0364	
(V8 RTK 23-MAY-2024 21:27:08.0 9763-001 rtk.asc)				
WD1J	-3011.1268	0.0084	0.2893	0.000
CHUR	922.7847	0.0094	-0.0061	0.000
	-1013.5982	0.0103	-0.0568	
(V9 RTK 23-MAY-2024 21:45:29.0 9763-001 rtk.asc)				
WD1J	-8133.0344	0.0170	0.3651	0.000
WAPT	4098.4720	0.0158	0.1740	0.000
	-990.5876	0.0196	0.0626	
(V10 RTK 23-MAY-2024 22:15:46.0 9763-001 rtk.asc)				
WD1J	-7876.7369	0.0184	0.4290	0.000
WOOD	4604.5726	0.0190	-0.1063	0.000
	-287.4821	0.0161	0.0030	
(V11 RTK 25-MAY-2024 15:06:54.0 9763-001 rtk.asc)				
VV1I	27308.4970	0.0255	0.3090	0.000
ANDR	-14265.8156	0.0312	-0.0251	0.000
	2772.5444	0.0258	-0.1840	
(V12 RTK 25-MAY-2024 16:03:11.0 9763-001 rtk.asc)				
WD1J	-6629.1904	0.0187	0.1683	0.000
DAVE	-7434.2299	0.0225	-0.1781	0.000
	-12308.2922	0.0326	-0.3393	
(V13 RTK 25-MAY-2024 16:31:40.0 9763-001 rtk.asc)				
WD1J	-12819.5395	0.0219	0.1419	0.000
RUSS	-2727.6874	0.0247	-0.1302	0.000
	-11371.0041	0.0272	-0.3234	
(V14 RTK 25-MAY-2024 16:53:40.0 9763-001 rtk.asc)				
WD1J	-10362.2750	0.0207	0.1255	0.000

Appendix H – Star*Net Adjustment Report

YAPT	-2256.4209	0.0217	-0.1408	0.000
	-9239.7346	0.0199	-0.1243	
(V15 RTK 25-MAY-2024 17:09:32.0 9763-001 rtk.asc)				
WD1J	-8829.7519	0.0168	0.0533	0.000
CANA	768.9643	0.0181	0.0123	0.000
	-5007.2615	0.0156	-0.0476	
(V16 RTK 25-MAY-2024 17:34:28.0 9763-001 rtk.asc)				
WD1J	-15103.4449	0.0228	0.0907	0.000
ABUT	6096.6607	0.0215	0.2032	0.000
	-3459.3963	0.0198	0.0524	
(V17 RTK 25-MAY-2024 17:54:48.0 9763-001 rtk.asc)				
WD1J	-8133.0323	0.0179	0.1233	0.000
WAPT	4098.4678	0.0154	0.2247	0.000
	-990.5907	0.0162	-0.0325	
(V18 RTK 25-MAY-2024 18:08:38.0 9763-001 rtk.asc)				
WD1J	-7876.7445	0.0176	0.1312	0.000
WOOD	4604.5556	0.0158	0.1702	0.000
	-287.4953	0.0186	-0.1865	
(V19 RTK 25-MAY-2024 18:24:52.0 9763-001 rtk.asc)				
WD1J	-7533.6505	0.0174	0.1275	0.000
KEAT	7476.3882	0.0186	0.0661	0.000
	2977.7015	0.0232	-0.3613	
(V20 RTK 25-MAY-2024 18:44:10.0 9763-001 rtk.asc)				
WD1J	-1009.1489	0.0100	0.1563	0.000
0308	4081.8010	0.0117	-0.0568	0.000
	3655.2063	0.0139	-0.3390	
(V21 RTK 25-MAY-2024 19:03:46.0 9763-001 rtk.asc)				
WD1J	-364.7026	0.0066	0.1805	0.000
LIBR	560.0934	0.0076	-0.1567	0.000
	336.1997	0.0087	-0.2636	
(V22 RTK 25-MAY-2024 19:22:51.0 9763-001 rtk.asc)				
WD1J	-756.1074	0.0090	0.1413	0.000
03DG	-2299.4631	0.0111	-0.2019	0.000
	-2954.0359	0.0105	-0.1737	
(V23 RTK 25-MAY-2024 22:03:36.0 9763-001 rtk.asc)				
VV1I	27308.4938	0.0299	0.3606	0.000
ANDR	-14265.8134	0.0620	-0.3238	0.000
	2772.5297	0.0421	-0.3253	
(V24 RTK 27-MAY-2024 14:35:40.0 9763-001 rtk.asc)				
WD1J	-8133.0235	0.0194	0.5162	0.000
WAPT	4098.4802	0.0226	0.0794	0.000
	-990.5679	0.0153	0.0631	
(V25 RTK 27-MAY-2024 15:23:47.0 9763-001 rtk.asc)				
WI1H	-17222.0372	0.0297	0.2796	0.000
RUMS	-10551.4699	0.0398	-0.0387	0.000
	-22148.2443	0.0346	-0.1963	

Appendix H – Star*Net Adjustment Report

(V26 RTK 27-MAY-2024 15:28:12.0 9763-001 rtk.asc)				
WI1H	-17222.0372	0.0232	0.2588	0.000
RUMS	-10551.4746	0.0317	-0.0852	0.000
	-22148.2411	0.0286	-0.2320	
(V27 RTK 27-MAY-2024 15:44:43.0 9763-001 rtk.asc)				
WI1H	-15731.1462	0.0141	0.2583	0.000
GUIN	-14937.7107	0.0201	-0.2921	0.000
	-25812.7512	0.0213	-0.3870	
(V28 RTK 27-MAY-2024 16:14:44.0 9763-001 rtk.asc)				
WD1J	-25779.8841	0.0249	0.1468	0.000
BROO	26460.1640	0.0314	-0.2513	0.000
	11073.6183	0.0388	-0.3170	
(V29 RTK 27-MAY-2024 16:34:09.0 9763-001 rtk.asc)				
WD1J	-27098.4953	0.0268	0.0646	0.000
GW32	22110.9092	0.0297	-0.2442	0.000
	5634.9922	0.0340	-0.1482	
(V30 RTK 27-MAY-2024 16:55:00.0 9763-001 rtk.asc)				
WD1J	-19334.8115	0.0254	0.0497	0.000
BRID	14993.7451	0.0259	-0.0146	0.000
	3185.0036	0.0238	0.0304	
(V31 RTK 27-MAY-2024 17:10:35.0 9763-001 rtk.asc)				
WD1J	-16527.2608	0.0277	0.1315	0.000
GW17	18929.1340	0.0271	0.0838	0.000
	9231.2437	0.0227	0.0677	
(V32 RTK 27-MAY-2024 17:44:32.0 9763-001 rtk.asc)				
WI1H	2934.0682	0.0329	0.3544	0.000
X200	-22451.6504	0.0349	0.1922	0.000
	-21551.9621	0.0283	0.0631	
(V33 RTK 27-MAY-2024 18:00:43.0 9763-001 rtk.asc)				
WI1H	8717.7455	0.0287	0.2498	0.000
DRAI	-24437.6677	0.0280	0.1803	0.000
	-19875.5965	0.0315	-0.0977	
(V34 RTK 27-MAY-2024 20:18:21.0 9763-001 rtk.asc)				
WD1J	-2042.2987	0.0181	0.2314	0.000
RWF1	-5963.0828	0.0219	-0.1492	0.000
	-7716.9434	0.0142	0.0983	
(V35 RTK 27-MAY-2024 20:34:39.0 9763-001 rtk.asc)				
WD1J	2519.1913	0.0186	0.2767	0.000
COY2	-8375.4291	0.0225	-0.0191	0.000
	-7293.0189	0.0170	0.0849	
(V36 RTK 27-MAY-2024 20:51:46.0 9763-001 rtk.asc)				
WD1J	5137.6171	0.0222	0.2989	0.000
CAST	-12178.8601	0.0251	0.1669	0.000
	-9632.4357	0.0251	0.0505	
(V37 RTK 27-MAY-2024 21:09:10.0 9763-001 rtk.asc)				

Appendix H – Star*Net Adjustment Report

WD1J	211.2199	0.0217	0.3251	0.000
ALH3	-9578.6135	0.0213	0.2659	0.000
	-10090.0123	0.0290	0.0760	
(V38 RTK 28-MAY-2024 13:19:08.0 9763-001 rtk.asc)				
WD1J	-10362.2696	0.0194	0.2003	0.000
YAPT	-2256.4273	0.0193	-0.2259	0.000
	-9239.7374	0.0213	0.0909	
(V39 RTK 28-MAY-2024 13:59:01.0 9763-001 rtk.asc)				
WD1J	-7442.3376	0.0299	0.3010	0.000
X200	23528.9746	0.0318	-0.1348	0.000
	19968.3018	0.0241	0.1232	
(V40 RTK 28-MAY-2024 14:28:15.0 9763-001 rtk.asc)				
WD1J	-7533.6676	0.0203	0.1130	0.000
KEAT	7476.4227	0.0253	-0.1019	0.000
	2977.7012	0.0169	0.1351	
(V41 RTK 28-MAY-2024 14:52:43.0 9763-001 rtk.asc)				
WD1J	-1009.1172	0.0124	0.2140	0.000
0308	4081.8438	0.0136	0.0690	0.000
	3655.2410	0.0133	-0.0823	
(V42 RTK 28-MAY-2024 15:12:28.0 9763-001 rtk.asc)				
WD1J	-364.6628	0.0083	0.3156	0.000
LIBR	560.1294	0.0097	-0.0259	0.000
	336.2327	0.0095	-0.1663	
(V43 RTK 28-MAY-2024 15:31:25.0 9763-001 rtk.asc)				
WD1J	-756.0728	0.0093	0.2735	0.000
03DG	-2299.4298	0.0114	-0.1384	0.000
	-2953.9970	0.0117	-0.2926	
(V44 RTK 28-MAY-2024 15:46:34.0 9763-001 rtk.asc)				
WD1J	-2042.2466	0.0171	0.3063	0.000
RWF1	-5963.0206	0.0214	-0.2585	0.000
	-7716.9230	0.0213	-0.3902	
(V45 RTK 28-MAY-2024 16:03:28.0 9763-001 rtk.asc)				
WD1J	2519.2303	0.0170	0.2174	0.000
COY2	-8375.3865	0.0219	-0.2497	0.000
	-7292.9852	0.0239	-0.3648	
(V46 RTK 28-MAY-2024 16:21:26.0 9763-001 rtk.asc)				
WD1J	5137.6456	0.0572	0.5047	0.000
CAST	-12178.8164	0.0296	-0.9189	0.000
	-9632.4205	0.0976	-0.5346	
(V47 RTK 28-MAY-2024 16:38:57.0 9763-001 rtk.asc)				
WD1J	211.2419	0.0199	0.0131	0.000
ALH3	-9578.5769	0.0224	-0.1393	0.000
	-10089.9853	0.0211	0.0063	
(V48 RTK 28-MAY-2024 17:08:34.0 9763-001 rtk.asc)				
WD1J	-6629.1368	0.0225	0.0351	0.000
DAVE	-7434.1640	0.0223	0.1278	0.000

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	-12308.2846	0.0206	0.1306	
(V49 RTK 28-MAY-2024 17:37:59.0 9763-001 rtk.asc)				
WD1J	-5927.7024	0.0210	0.1455	0.000
PLAI	-3662.8539	0.0165	0.1943	0.000
	-7822.1540	0.0177	-0.0191	
(V50 RTK 28-MAY-2024 18:08:21.0 9763-001 rtk.asc)				
WD1J	7047.3563	0.0169	0.1305	0.000
CONA	-8958.9721	0.0161	0.0693	0.000
	-4937.8439	0.0195	-0.3765	
(V51 RTK 28-MAY-2024 18:26:39.0 9763-001 rtk.asc)				
WD1J	6366.4986	0.0134	0.1818	0.000
EX11	-6256.7723	0.0132	-0.0936	0.000
	-2507.1055	0.0163	-0.3491	
(V52 RTK 30-MAY-2024 13:43:24.0 9763-001 rtk.asc)				
WD1J	-5927.6701	0.0180	0.2172	0.000
PLAI	-3662.8294	0.0168	-0.1844	0.000
	-7822.1492	0.0150	0.0711	
(V53 RTK 30-MAY-2024 14:01:18.0 9763-001 rtk.asc)				
WD1J	-3011.0979	0.0135	0.3870	0.000
CHUR	922.8078	0.0135	-0.1000	0.000
	-1013.5939	0.0109	0.0453	
(V54 RTK 30-MAY-2024 14:29:50.0 9763-001 rtk.asc)				
WD1J	4388.5775	0.0135	0.4192	0.000
1031	-2508.5155	0.0141	0.1148	0.000
	184.9196	0.0120	-0.0745	
(V55 RTK 30-MAY-2024 14:46:00.0 9763-001 rtk.asc)				
WD1J	4653.4926	0.0173	0.2636	0.000
FORD	1289.5941	0.0157	0.0837	0.000
	4403.0368	0.0151	-0.1891	
(V56 RTK 30-MAY-2024 15:06:03.0 9763-001 rtk.asc)				
WD1J	7334.7831	0.0147	0.2481	0.000
F859	5103.9266	0.0233	-0.0150	0.000
	10195.1932	0.0181	-0.3220	
(V57 RTK 30-MAY-2024 15:19:46.0 9763-001 rtk.asc)				
WD1J	7334.7776	0.0185	0.2118	0.000
F859	5103.9194	0.0246	-0.0114	0.000
	10195.1960	0.0251	-0.2623	
(V58 RTK 30-MAY-2024 15:33:09.0 9763-001 rtk.asc)				
WD1J	3748.5051	0.0210	0.2027	0.000
CODY	7242.7622	0.0260	-0.1334	0.000
	10107.5921	0.0322	-0.3298	
(V59 RTK 30-MAY-2024 15:47:05.0 9763-001 rtk.asc)				
WD1J	510.5395	0.0174	0.1776	0.000
ZAMX	8231.3526	0.0203	-0.1813	0.000
	9030.5668	0.0280	-0.3207	

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(V60 RTK 30-MAY-2024 16:03:14.0 9763-001 rtk.asc)				
WD1J	-2427.0136	0.0177	0.1580	0.000
DUFO	8737.0458	0.0203	-0.1499	0.000
	7648.0887	0.0246	-0.2509	
(V61 RTK 30-MAY-2024 16:22:27.0 9763-001 rtk.asc)				
WD1J	-6719.4647	0.0235	0.0865	0.000
T849	13594.1861	0.0259	-0.0448	0.000
	9986.2144	0.0266	-0.1872	
(V62 RTK 30-MAY-2024 16:44:39.0 9763-001 rtk.asc)				
WD1J	-5909.9799	0.0411	0.0865	0.000
1075	17809.2140	0.0332	0.4751	0.000
	14930.9726	0.0315	-0.1116	
(V63 RTK 30-MAY-2024 17:18:21.0 9763-001 rtk.asc)				
WD1J	-3514.0844	0.0289	0.1831	0.000
HERS	18541.1097	0.0256	0.2636	0.000
	17272.8472	0.0249	0.1071	
(V64 RTK 30-MAY-2024 17:43:54.0 9763-001 rtk.asc)				
WD1J	3680.1670	0.0316	0.2238	0.000
JIMX	18424.3112	0.0257	0.2853	0.000
	21855.7887	0.0313	-0.1141	
(V65 RTK 30-MAY-2024 18:01:09.0 9763-001 rtk.asc)				
WD1J	345.2305	0.0257	0.1751	0.000
CVAP	13205.6141	0.0237	0.1638	0.000
	14169.2431	0.0312	-0.2971	
(V66 RTK 30-MAY-2024 18:20:02.0 9763-001 rtk.asc)				
WD1J	3588.1232	0.0282	-0.1084	0.000
TYND	14069.8028	0.0407	0.2229	0.000
	17205.7016	0.0647	-0.7810	
(V67 RTK 30-MAY-2024 18:35:54.0 9763-001 rtk.asc)				
WD1J	7160.0000	0.0218	0.2134	0.000
SYCA	8965.9695	0.0230	-0.0807	0.000
	14153.9216	0.0266	-0.2609	
(V68 RTK 30-MAY-2024 18:53:37.0 9763-001 rtk.asc)				
WD1J	7334.7717	0.0203	0.1407	0.000
F859	5103.9069	0.0242	-0.2394	0.000
	10195.2142	0.0270	-0.2259	
(V69 RTK 30-MAY-2024 19:08:33.0 9763-001 rtk.asc)				
WD1J	4653.5198	0.0130	0.2530	0.000
FORD	1289.6271	0.0153	-0.2336	0.000
	4403.0181	0.0142	-0.1624	
(V70 RTK 30-MAY-2024 21:26:37.0 9763-001 rtk.asc)				
WD1J	7047.3512	0.0166	0.2614	0.000
CONA	-8958.9526	0.0174	-0.0780	0.000
	-4937.8574	0.0195	-0.0697	
(V71 RTK 30-MAY-2024 21:40:12.0 9763-001 rtk.asc)				
WD1J	6366.4987	0.0144	0.2198	0.000

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EX11	-6256.7581	0.0162	-0.1093	0.000
	-2507.1230	0.0167	0.0165	
(V72 RTK 30-MAY-2024 22:10:12.0 9763-001 rtk.asc)				
WD1J	-10362.2533	0.0187	0.1417	0.000
YAPT	-2256.4424	0.0243	-0.1435	0.000
	-9239.7289	0.0219	0.1852	
(V73 RTK 31-MAY-2024 17:35:33.0 9763-001 rtk.asc)				
WD1J	-6629.1998	0.0267	0.0232	0.000
DAVE	-7434.2455	0.0246	-0.2350	0.000
	-12308.2782	0.0381	0.3252	
(V74 RTK 31-MAY-2024 18:00:22.0 9763-001 rtk.asc)				
WD1J	-3011.1577	0.0444	0.4340	0.000
CHUR	922.7439	0.0114	0.7191	0.000
	-1013.5686	0.0359	0.3100	
(V75 RTK 31-MAY-2024 20:12:18.0 9763-001 rtk.asc)				
WD1J	-8829.7434	0.0161	0.3776	0.000
CANA	768.9631	0.0201	-0.0531	0.000
	-5007.2583	0.0146	0.0492	
(V76 RTK 31-MAY-2024 20:31:39.0 9763-001 rtk.asc)				
WD1J	-15103.4433	0.0185	0.3667	0.000
ABUT	6096.6676	0.0224	-0.0175	0.000
	-3459.3795	0.0189	0.0155	
(V77 RTK 31-MAY-2024 20:57:39.0 9763-001 rtk.asc)				
WD1J	-20213.8749	0.0180	0.3533	0.000
B849	1037.1525	0.0215	-0.0168	0.000
	-12251.4615	0.0238	-0.1010	
(V78 RTK 31-MAY-2024 21:22:56.0 9763-001 rtk.asc)				
VV1I	2272.2703	0.0231	0.3744	0.000
PLEA	9923.5914	0.0245	0.1125	0.000
	12094.3241	0.0245	0.0648	
(V79 RTK 31-MAY-2024 21:53:55.0 9763-001 rtk.asc)				
WD1J	-12819.5360	0.0275	0.4081	0.000
RUSS	-2727.6753	0.0284	-0.2521	0.000
	-11371.0010	0.0228	-0.0383	
(V80 RTK 01-JUN-2024 14:08:06.0 9763-001 rtk.asc)				
LD1K	-15665.8736	0.1170	-0.3539	0.000
COUR	25930.1002	0.1848	-0.0291	0.000
	17697.4878	0.0576	-0.6278	
(V81 RTK 01-JUN-2024 14:30:38.0 9763-001 rtk.asc)				
WD1J	4025.7637	0.0290	0.4205	0.000
GAF2	-24215.9785	0.0340	0.1376	0.000
	-23266.4191	0.0285	-0.0290	
(V82 RTK 01-JUN-2024 14:48:58.0 9763-001 rtk.asc)				
WD1J	10987.9736	0.0275	0.3642	0.000
T462	-25799.7350	0.0318	0.0184	0.000
	-20363.1315	0.0289	-0.1349	

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(V83 RTK 01-JUN-2024 15:11:14.0 9763-001 rtk.asc)				
WD1J	7606.9697	0.0227	0.2523	0.000
03BG	-18457.4112	0.0282	-0.0684	0.000
	-14713.3805	0.0284	-0.2113	
(V84 RTK 01-JUN-2024 15:28:00.0 9763-001 rtk.asc)				
WD1J	12807.0301	0.0224	0.2300	0.000
PALA	-17190.7948	0.0272	-0.2180	0.000
	-9935.3300	0.0320	-0.3018	
(V85 RTK 01-JUN-2024 15:54:13.0 9763-001 rtk.asc)				
WD1J	13467.7611	0.0173	0.1393	0.000
RIVE	-10541.5207	0.0532	-0.2471	0.000
	-2406.7185	0.0278	-0.4952	
(V86 RTK 01-JUN-2024 16:35:22.0 9763-001 rtk.asc)				
WD1J	-955.2392	0.0236	0.0282	0.000
WILS	-14042.0472	0.0254	-0.0134	0.000
	-15634.5452	0.0238	0.0393	
(V87 RTK 01-JUN-2024 16:51:48.0 9763-001 rtk.asc)				
WD1J	379.5986	0.0259	0.1045	0.000
CALD	-17754.9552	0.0263	0.1365	0.000
	-18735.1265	0.0240	0.1050	
(V88 RTK 01-JUN-2024 17:18:38.0 9763-001 rtk.asc)				
VV1I	27308.5081	0.0300	0.1878	0.000
ANDR	-14265.7815	0.0261	0.2493	0.000
	2772.5193	0.0264	0.0046	
(V89 RTK 01-JUN-2024 17:24:16.0 9763-001 rtk.asc)				
VV1I	27308.5033	0.0138	0.3325	0.000
ANDR	-14265.7947	0.0123	0.1098	0.000
	2772.5259	0.0134	-0.2937	
(V90 RTK 01-JUN-2024 18:11:07.0 9763-001 rtk.asc)				
VV1I	27308.5093	0.0319	-0.3458	0.000
ANDR	-14265.8031	0.0985	0.3359	0.000
	2772.5463	0.0729	-0.8689	
(V91 RTK 03-JUN-2024 13:15:35.0 9763-001 rtk.asc)				
WD1J	5137.5919	0.0210	0.1522	0.000
CAST	-12178.8870	0.0209	-0.2268	0.000
	-9632.4303	0.0190	0.0850	
(V92 RTK 03-JUN-2024 13:32:56.0 9763-001 rtk.asc)				
WD1J	211.1909	0.0209	0.2535	0.000
ALH3	-9578.6453	0.0212	-0.1344	0.000
	-10089.9951	0.0174	0.0838	
(V93 RTK 03-JUN-2024 14:05:20.0 9763-001 rtk.asc)				
WD1J	-20213.9112	0.0293	0.4195	0.000
B849	1037.1336	0.0337	0.0773	0.000
	-12251.4884	0.0253	-0.1114	
(V94 RTK 03-JUN-2024 14:29:58.0 9763-001 rtk.asc)				

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WD1J	-25931.0284	0.0293	0.3891	0.000
PLEA	1339.0405	0.0424	0.0600	0.000
	-15727.6304	0.0295	-0.2606	
 (V95 RTK 03-JUN-2024 17:08:14.0 9763-001 rtk.asc)				
LD1K	-15665.9222	0.0297	0.2233	0.000
COUR	25930.2257	0.0282	0.1563	0.000
	17697.4532	0.0252	0.0496	
 (V96 RTK 03-JUN-2024 17:40:59.0 9763-001 rtk.asc)				
WD1J	4025.7258	0.0288	0.1653	0.000
GAF2	-24216.0235	0.0669	0.0918	0.000
	-23266.3869	0.0467	-0.6459	
 (V97 RTK 03-JUN-2024 17:58:11.0 9763-001 rtk.asc)				
WD1J	10987.9324	0.0278	0.1909	0.000
T462	-25799.7687	0.0337	-0.0060	0.000
	-20363.1042	0.0423	-0.4512	
 (V98 RTK 03-JUN-2024 18:19:12.0 9763-001 rtk.asc)				
WD1J	7606.9606	0.0246	0.2130	0.000
03BG	-18457.4377	0.0260	-0.1530	0.000
	-14713.3555	0.0335	-0.3111	
 (V99 RTK 03-JUN-2024 18:36:08.0 9763-001 rtk.asc)				
WD1J	12807.0179	0.0234	0.2194	0.000
PALA	-17190.8081	0.0291	-0.1649	0.000
	-9935.3267	0.0284	-0.2921	
 (V100 RTK 03-JUN-2024 18:57:59.0 9763-001 rtk.asc)				
WD1J	13467.7766	0.0164	0.4718	0.000
RIVE	-10541.5005	0.0217	-0.3325	0.000
	-2406.7278	0.0143	-0.3253	
 (V101 RTK 03-JUN-2024 21:39:43.0 9763-001 rtk.asc)				
LD1K	-15665.9016	0.0239	0.2716	0.000
COUR	25930.2217	0.0282	-0.1877	0.000
	17697.4543	0.0266	0.0967	
 (V102 RTK 03-JUN-2024 22:02:03.0 9763-001 rtk.asc)				
LD1K	-14826.9225	0.0265	0.0985	0.000
GAF2	30841.2549	0.0341	-0.2723	0.000
	23525.3509	0.0392	0.3802	
 (V103 RTK 03-JUN-2024 22:19:37.0 9763-001 rtk.asc)				
LD1K	-7864.7198	0.0267	0.0893	0.000
T462	29257.5051	0.0450	-0.2052	0.000
	26428.6179	0.0512	0.5855	
 (V105 RTK 03-JUN-2024 23:07:46.0 9763-001 rtk.asc)				
LD1K	-6045.6476	0.0294	0.4291	0.000
PALA	37866.4212	0.0388	0.0429	0.000
	36856.4179	0.0296	-0.0087	
 (V106 RTK 04-JUN-2024 22:02:18.0 9763-001 rtk.asc)				
WD1J	13467.8505	0.0236	0.1903	0.000
RIVE	-10541.4348	0.0351	-0.1457	0.000

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	-2406.7377	0.0282	0.3004	
(V107 RTK 04-JUN-2024 22:56:40.0 9763-001 rtk.asc)				
WD1J	10186.7139	0.0174	0.2565	0.000
FERR	-6226.1854	0.0210	0.0099	0.000
	38.4459	0.0206	0.0581	
(V108 RTK 04-JUN-2024 23:36:24.0 9763-001 rtk.asc)				
WD1J	-2042.2645	0.0160	0.1781	0.000
RWF1	-5963.1027	0.0246	0.0325	0.000
	-7716.9278	0.0213	-0.3900	
(V109 RTK 05-JUN-2024 19:51:20.0 9763-001 rtk.asc)				
WD1J	10186.7307	0.0182	0.3389	0.000
FERR	-6226.1411	0.0237	-0.0899	0.000
	38.4718	0.0173	0.1622	
(V110 RTK 05-JUN-2024 20:45:14.0 9763-001 rtk.asc)				
WD1J	-21153.9813	0.0220	0.2725	0.000
COTT	10170.6804	0.0247	-0.0633	0.000
	-3084.8753	0.0312	-0.1855	
(V111 RTK 05-JUN-2024 21:12:25.0 9763-001 rtk.asc)				
WD1J	-18346.2676	0.0218	0.3029	0.000
1069	4133.1772	0.0247	-0.1236	0.000
	-7691.9769	0.0260	-0.1015	
(V112 RTK 05-JUN-2024 21:29:25.0 9763-001 rtk.asc)				
WD1J	-14283.3069	0.0218	0.2843	0.000
WILX	9781.7005	0.0223	-0.1428	0.000
	982.1614	0.0233	-0.0012	
(V113 RTK 05-JUN-2024 21:44:52.0 9763-001 rtk.asc)				
WD1J	-11546.0491	0.0240	0.1885	0.000
169A	12216.2472	0.0264	-0.2535	0.000
	5376.2805	0.0264	0.2265	
(V114 RTK 05-JUN-2024 22:00:46.0 9763-001 rtk.asc)				
WD1J	-7533.6381	0.0276	-0.4945	0.000
KEAT	7476.4167	0.0322	-0.7564	0.000
	2977.6642	0.0658	0.7670	
(V115 RTK 05-JUN-2024 22:19:10.0 9763-001 rtk.asc)				
WD1J	-1009.1485	0.0727	0.2406	0.000
0308	4081.8120	0.0429	0.1906	0.000
	3655.1846	0.0511	0.2958	
(V116 RTK 05-JUN-2024 23:31:04.0 9763-001 rtk.asc)				
WD1J	2519.1828	0.0162	0.3100	0.000
COY2	-8375.4583	0.0204	-0.0753	0.000
	-7292.9945	0.0197	-0.3479	
(V117 RTK 06-JUN-2024 13:46:39.0 9763-001 rtk.asc)				
WD1J	-18346.2892	0.0266	0.4296	0.000
1069	4133.1703	0.0305	0.0191	0.000
	-7691.9592	0.0214	0.1085	

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(V118 RTK 06-JUN-2024 14:04:20.0 9763-001 rtk.asc)					
WD1J	-21154.0005	0.0270	0.3184	0.000	
COTT	10170.6721	0.0328	0.0406	0.000	
	-3084.8744	0.0258	-0.1369		
(V119 RTK 06-JUN-2024 14:29:13.0 9763-001 rtk.asc)					
WD1J	-11546.0620	0.0201	0.2384	0.000	
169A	12216.2374	0.0243	-0.0239	0.000	
	5376.2772	0.0229	-0.1615		
(V120 RTK 06-JUN-2024 15:30:01.0 9763-001 rtk.asc)					
WD1J	10186.6838	0.0190	0.2235	0.000	
FERR	-6226.1821	0.0241	-0.2914	0.000	
	38.4304	0.0339	-0.4675		
(V121 RTK 06-JUN-2024 16:02:22.0 9763-001 rtk.asc)					
WD1J	13019.6941	0.0232	0.0498	0.000	
FRE3	-779.0498	0.0241	-0.0393	0.000	
	7680.3718	0.0230	-0.1432		
(V122 RTK 06-JUN-2024 16:23:47.0 9763-001 rtk.asc)					
WD1J	11996.8610	0.0227	0.0762	0.000	
SM15	-2817.0015	0.0220	0.0790	0.000	
	4838.5416	0.0195	0.0236		
(V123 RTK 06-JUN-2024 17:07:35.0 9763-001 rtk.asc)					
WD1J	211.1994	0.0242	0.1943	0.000	
ALH3	-9578.6530	0.0210	0.2776	0.000	
	-10090.0030	0.0227	-0.0238		
(V124 RTK 06-JUN-2024 19:21:12.0 9763-001 rtk.asc)					
WD1J	-955.2205	0.0157	0.3404	0.000	
WILS	-14042.0183	0.0193	-0.1332	0.000	
	-15634.5500	0.0136	0.0029		
(V125 RTK 06-JUN-2024 19:55:32.0 9763-001 rtk.asc)					
WD1J	379.6245	0.0102	0.4135	0.000	
CALD	-17754.8982	0.0109	-0.0341	0.000	
	-18735.1437	0.0113	-0.2334		
(V126 RTK 07-JUN-2024 14:41:09.0 9763-001 rtk.asc)					
WD1J	3680.2123	0.0242	0.2736	0.000	
JIMX	18424.3404	0.0291	-0.0183	0.000	
	21855.7457	0.0312	-0.2388		
(V127 RTK 07-JUN-2024 14:58:52.0 9763-001 rtk.asc)					
WD1J	345.2618	0.0355	0.2304	0.000	
CVAP	13205.6281	0.0447	-0.1404	0.000	
	14169.2234	0.0541	-0.3244		
(V128 RTK 07-JUN-2024 15:02:55.0 9763-001 rtk.asc)					
WD1J	345.2565	0.0210	0.2117	0.000	
CVAP	13205.6196	0.0251	-0.1538	0.000	
	14169.2285	0.0326	-0.3011		
(V129 RTK 07-JUN-2024 15:18:18.0 9763-001 rtk.asc)					
WD1J	3588.1499	0.0224	0.2084	0.000	

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TYND	14069.7892	0.0290	-0.2132	0.000
	17205.6999	0.0366	-0.3679	
(V130 RTK 07-JUN-2024 15:33:14.0 9763-001 rtk.asc)				
WD1J	7159.9806	0.0559	0.6750	0.000
SYCA	8965.9764	0.0387	-0.8940	0.000
	14153.9570	0.1140	-0.7381	
(V131 RTK 07-JUN-2024 17:16:47.0 9763-001 rtk.asc)				
WD1J	-11546.0726	0.0214	0.3750	0.000
169A	12216.2528	0.0153	0.1004	0.000
	5376.3043	0.0178	-0.2766	
(V132 RTK 07-JUN-2024 20:16:28.0 9763-001 rtk.asc)				
WD1J	3748.5097	0.0194	0.3912	0.000
CODY	7242.7720	0.0253	0.0012	0.000
	10107.5933	0.0221	-0.0106	
(V133 RTK 07-JUN-2024 20:30:08.0 9763-001 rtk.asc)				
WD1J	510.5376	0.0172	0.3645	0.000
ZAMX	8231.3598	0.0197	-0.0251	0.000
	9030.5766	0.0207	-0.0917	
(V134 RTK 07-JUN-2024 20:45:05.0 9763-001 rtk.asc)				
WD1J	-2427.0257	0.0164	0.2957	0.000
DUFO	8737.0370	0.0193	-0.0496	0.000
	7648.1301	0.0201	-0.1063	
(V135 RTK 07-JUN-2024 21:03:27.0 9763-001 rtk.asc)				
WD1J	-6719.4794	0.0197	0.2269	0.000
T849	13594.2204	0.0244	-0.1164	0.000
	9986.2244	0.0228	0.0070	
(V136 RTK 07-JUN-2024 21:26:29.0 9763-001 rtk.asc)				
WD1J	-5909.9890	0.0227	0.1854	0.000
1075	17809.2065	0.0284	-0.1588	0.000
	14930.9937	0.0255	0.1210	
(V137 RTK 07-JUN-2024 21:47:14.0 9763-001 rtk.asc)				
WD1J	-1658.6327	0.0245	0.1519	0.000
DRAI	21542.9828	0.0337	-0.1361	0.000
	21644.6846	0.0298	0.2142	
(V138 RTK 07-JUN-2024 22:01:12.0 9763-001 rtk.asc)				
WD1J	-3514.0645	0.0229	0.1671	0.000
HERS	18541.1078	0.0329	-0.0527	0.000
	17272.8425	0.0296	0.2654	
(V139 RTK 08-JUN-2024 20:40:41.0 9763-001 rtk.asc)				
WD1J	13019.7196	0.0184	0.2982	0.000
FRE3	-779.0297	0.0198	-0.0240	0.000
	7680.4186	0.0237	-0.0273	
(V140 RTK 08-JUN-2024 20:57:31.0 9763-001 rtk.asc)				
WD1J	11996.8869	0.0171	0.2654	0.000
SM15	-2816.9876	0.0189	-0.0113	0.000
	4838.5962	0.0218	-0.0008	

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(V141 RTK 08-JUN-2024 21:49:51.0 9763-001 rtk.asc)					
WD1J	3680.2019	0.0266	0.2264	0.000	
JIMX	18424.2734	0.0338	-0.0663	0.000	
	21855.7712	0.0409	0.2744		
(V142 RTK 08-JUN-2024 22:07:00.0 9763-001 rtk.asc)					
WD1J	345.2499	0.0228	0.2250	0.000	
CVAP	13205.5588	0.0279	-0.0948	0.000	
	14169.2374	0.0272	0.2572		
(V143 RTK 08-JUN-2024 22:22:25.0 9763-001 rtk.asc)					
WD1J	3588.1401	0.0238	0.2189	0.000	
TYND	14069.7475	0.0300	-0.0793	0.000	
	17205.7169	0.0284	0.2235		
(V144 RTK 08-JUN-2024 22:39:06.0 9763-001 rtk.asc)					
WD1J	7159.9941	0.0191	0.2812	0.000	
SYCA	8965.9272	0.0258	0.0331	0.000	
	14153.9347	0.0227	0.1496		
(V145 RTK 08-JUN-2024 22:55:12.0 9763-001 rtk.asc)					
WD1J	7334.7745	0.0188	0.2363	0.000	
F859	5103.9117	0.0262	0.0791	0.000	
	10195.1905	0.0230	-0.1858		
(V146 RTK 08-JUN-2024 23:10:10.0 9763-001 rtk.asc)					
WD1J	4653.5047	0.0134	0.2675	0.000	
FORD	1289.5917	0.0179	0.0537	0.000	
	4403.0143	0.0163	-0.3386		
(V147 RTK 10-JUN-2024 13:11:07.0 9763-001 rtk.asc)					
WD1J	-955.2213	0.0264	0.3547	0.000	
WILS	-14042.0122	0.0269	-0.1055	0.000	
	-15634.5589	0.0204	0.0871		
(V148 RTK 10-JUN-2024 13:29:21.0 9763-001 rtk.asc)					
WD1J	379.6118	0.0292	0.4035	0.000	
CALD	-17754.9219	0.0302	-0.0558	0.000	
	-18735.1371	0.0224	-0.0010		
(V149 RTK 10-JUN-2024 15:36:09.0 9763-001 rtk.asc)					
WI1H	-17222.0092	0.0240	0.1686	0.000	
RUMS	-10551.4409	0.0266	-0.2034	0.000	
	-22148.2706	0.0261	-0.2542		
(V150 RTK 10-JUN-2024 17:02:14.0 9763-001 rtk.asc)					
WD1J	510.5105	0.0211	0.1461	0.000	
ZAMX	8231.3439	0.0183	0.1625	0.000	
	9030.6050	0.0212	-0.1980		
(V151 RTK 10-JUN-2024 17:15:54.0 9763-001 rtk.asc)					
WD1J	3748.4740	0.0208	0.1722	0.000	
CODY	7242.7371	0.0229	0.0569	0.000	
	10107.6328	0.0269	-0.4046		
(V152 RTK 10-JUN-2024 20:23:25.0 9763-001 rtk.asc)					

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WI1H	2934.0608	0.0192	0.3148	0.000
X200	-22451.6451	0.0218	-0.0796	0.000
	-21551.9542	0.0248	-0.0429	
(V153 RTK 10-JUN-2024 21:54:48.0 9763-001 rtk.asc)				
WI1H	-17222.0642	0.0313	0.4815	0.000
RUMS	-10551.5415	0.0382	0.0408	0.000
	-22148.1896	0.0320	0.3134	
(V154 RTK 10-JUN-2024 22:30:13.0 9763-001 rtk.asc)				
WI1H	-15731.1774	0.0274	0.3661	0.000
GUIN	-14937.7602	0.0353	0.0464	0.000
	-25812.7197	0.0281	0.0578	
(V155 RTK 10-JUN-2024 22:56:37.0 9763-001 rtk.asc)				
WI1H	-15403.5763	0.0368	0.4533	0.000
BROO	-19520.6486	0.0470	-0.0290	0.000
	-30446.5764	0.0353	-0.1793	
(V156 RTK 10-JUN-2024 23:16:01.0 9763-001 rtk.asc)				
WI1H	-16722.1385	0.0275	0.3355	0.000
GW32	-23869.7748	0.0395	-0.0653	0.000
	-35885.2333	0.0338	-0.3090	
(V157 RTK 11-JUN-2024 13:12:11.0 9763-001 rtk.asc)				
WD1J	-19334.7826	0.0265	0.3203	0.000
BRID	14993.7507	0.0279	-0.0704	0.000
	3185.0089	0.0218	0.0598	
(V158 RTK 11-JUN-2024 13:30:58.0 9763-001 rtk.asc)				
WD1J	-14283.3098	0.0258	0.4208	0.000
WILX	9781.6743	0.0304	0.0049	0.000
	982.1754	0.0204	-0.0312	
(V159 RTK 11-JUN-2024 13:57:57.0 9763-001 rtk.asc)				
WD1J	510.5300	0.0207	0.3859	0.000
ZAMX	8231.3501	0.0229	0.1157	0.000
	9030.5826	0.0201	-0.1221	
(V160 RTK 11-JUN-2024 14:12:54.0 9763-001 rtk.asc)				
WD1J	3748.4989	0.0193	0.2934	0.000
CODY	7242.7520	0.0221	0.0860	0.000
	10107.6073	0.0220	-0.1694	
(V161 RTK 11-JUN-2024 14:31:44.0 9763-001 rtk.asc)				
WD1J	-6719.4972	0.0196	0.1583	0.000
T849	13594.1984	0.0247	-0.1208	0.000
	9986.2328	0.0307	-0.3019	
(V162 RTK 11-JUN-2024 15:00:05.0 9763-001 rtk.asc)				
WD1J	-5910.0266	0.0222	0.1153	0.000
1075	17809.1700	0.0437	-0.1593	0.000
	14931.0499	0.0405	-0.5530	
(V163 RTK 11-JUN-2024 15:46:16.0 9763-001 rtk.asc)				
WD1J	13019.7174	0.0218	0.0321	0.000
FRE3	-778.9673	0.0242	-0.0107	0.000

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	7680.3808	0.0217	-0.1872	
(V164 RTK 11-JUN-2024 16:02:08.0 9763-001 rtk.asc)				
WD1J	11996.8787	0.0194	0.0316	0.000
SM15	-2816.9300	0.0210	0.1010	0.000
	4838.5508	0.0175	-0.0222	
(V165 RTK 11-JUN-2024 16:44:40.0 9763-001 rtk.asc)				
WD1J	-756.0861	0.0143	0.3584	0.000
03DG	-2299.4152	0.0112	0.5003	0.000
	-2954.0676	0.0153	0.2923	
(V166 RTK 11-JUN-2024 19:24:28.0 9763-001 rtk.asc)				
WD1J	-11278.6837	0.0207	0.4096	0.000
VINC	17409.7222	0.0259	-0.0683	0.000
	11031.7319	0.0205	0.1208	
(V167 RTK 11-JUN-2024 19:51:35.0 9763-001 rtk.asc)				
WD1J	-19334.7799	0.0231	0.3468	0.000
BRID	14993.7991	0.0283	0.0159	0.000
	3185.0152	0.0257	0.0076	
(V168 RTK 11-JUN-2024 20:06:42.0 9763-001 rtk.asc)				
WD1J	-16527.2366	0.0167	0.3698	0.000
GW17	18929.1972	0.0238	0.0143	0.000
	9231.2558	0.0240	-0.2020	
(V169 RTK 12-JUN-2024 13:50:23.0 9763-001 rtk.asc)				
WD1J	-3514.0757	0.0273	0.4288	0.000
HERS	18541.1120	0.0333	0.1051	0.000
	17272.8626	0.0262	-0.0913	
(V170 RTK 12-JUN-2024 14:05:47.0 9763-001 rtk.asc)				
WD1J	-1658.6500	0.0260	0.3164	0.000
DRAI	21542.9833	0.0337	0.0774	0.000
	21644.6992	0.0303	-0.1981	
(V171 RTK 12-JUN-2024 21:46:47.0 9763-001 rtk.asc)				
WD1J	-364.6704	0.0083	0.2274	0.000
LIBR	560.1136	0.0101	-0.0935	0.000
	336.2411	0.0101	0.3407	
(V172 RTK 12-JUN-2024 21:52:18.0 9763-001 rtk.asc)				
WD1J	-364.6726	0.0079	0.2385	0.000
LIBR	560.1017	0.0097	-0.0626	0.000
	336.2443	0.0098	0.3446	
(V173 RTK 12-JUN-2024 21:57:33.0 9763-001 rtk.asc)				
WD1J	-364.6726	0.0072	0.2532	0.000
LIBR	560.1051	0.0091	-0.0354	0.000
	336.2399	0.0091	0.3475	
(V174 RTK 12-JUN-2024 22:02:50.0 9763-001 rtk.asc)				
WD1J	-364.6712	0.0073	0.2706	0.000
LIBR	560.1061	0.0091	0.0120	0.000
	336.2544	0.0095	0.2927	

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(V175 RTK 12-JUN-2024 22:26:11.0 9763-001 rtk.asc)					
WD1J	4388.5981	0.0108	0.2307	0.000	
1031	-2508.4784	0.0125	0.0226	0.000	
	184.9326	0.0126	0.0442		
(V176 RTK 12-JUN-2024 22:45:34.0 9763-001 rtk.asc)					
WD1J	-756.0575	0.0092	0.2100	0.000	
03DG	-2299.4074	0.0122	0.0791	0.000	
	-2954.0158	0.0112	-0.2135		
(V177 RTK 13-JUN-2024 17:17:36.0 9763-001 rtk.asc)					
WD1J	-6719.4981	0.0157	0.0189	0.000	
T849	13594.1890	0.0452	0.0297	0.000	
	9986.2405	0.0528	-0.9145		
(V178 RTK 13-JUN-2024 17:52:07.0 9763-001 rtk.asc)					
WD1J	-5909.9957	0.0277	-0.6943	0.000	
1075	17809.2173	0.1256	0.6985	0.000	
	14930.9875	0.1219	-0.9688		
(V179 RTK 13-JUN-2024 18:05:57.0 9763-001 rtk.asc)					
WD1J	-5909.9937	0.0223	0.0709	0.000	
1075	17809.2061	0.0292	-0.1521	0.000	
	14931.0017	0.0281	-0.3870		
(V180 RTK 13-JUN-2024 22:27:38.0 9763-001 rtk.asc)					
WD1J	-11278.7057	0.0258	0.3448	0.000	
VINC	17409.6948	0.0291	0.1416	0.000	
	11031.7431	0.0274	0.1425		
(V181 RTK 13-JUN-2024 22:46:37.0 9763-001 rtk.asc)					
WD1J	-16527.2431	0.0140	0.3499	0.000	
GW17	18929.1959	0.0178	-0.0718	0.000	
	9231.2679	0.0162	-0.3152		
(V182 RTK 13-JUN-2024 23:32:56.0 9763-001 rtk.asc)					
WD1J	-2427.0333	0.0102	0.0514	0.000	
DUFO	8737.0431	0.0122	-0.1258	0.000	
	7648.1307	0.0132	-0.1236		
(V183 RTK 14-JUN-2024 00:32:22.0 9763-001 rtk.asc)					
WD1J	13019.7156	0.0232	0.2312	0.000	
FRE3	-778.9695	0.0254	-0.0419	0.000	
	7680.4356	0.0221	0.3413		
(V184 RTK 14-JUN-2024 00:47:51.0 9763-001 rtk.asc)					
WD1J	11996.8681	0.0306	0.4932	0.000	
SM15	-2816.9427	0.0274	-0.0822	0.000	
	4838.6120	0.0206	0.1881		
(V185 RTK 14-JUN-2024 18:09:32.0 9763-001 rtk.asc)					
WI1H	-17222.0091	0.0242	0.2180	0.000	
RUMS	-10551.4623	0.0284	-0.3039	0.000	
	-22148.2601	0.0286	-0.1937		
(V186 RTK 14-JUN-2024 18:14:55.0 9763-001 rtk.asc)					
WI1H	-17222.0155	0.0161	0.2518	0.000	

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RUMS	-10551.4573	0.0204	-0.3325	0.000
	-22148.2641	0.0182	-0.2395	
(V187 RTK 14-JUN-2024 18:37:53.0 9763-001 rtk.asc)				
WI1H	-15731.1297	0.0269	0.2465	0.000
GUIN	-14937.6788	0.0339	-0.2425	0.000
	-25812.7664	0.0260	-0.1125	
(V188 RTK 14-JUN-2024 18:43:20.0 9763-001 rtk.asc)				
WI1H	-15731.1267	0.0254	0.2921	0.000
GUIN	-14937.6827	0.0317	-0.2228	0.000
	-25812.7676	0.0238	-0.0970	
(V189 RTK 14-JUN-2024 18:58:49.0 9763-001 rtk.asc)				
WI1H	-15403.4802	0.0989	-0.8389	0.000
BROO	-19520.4555	0.1055	0.8667	0.000
	-30446.7007	0.1388	-0.8758	
(V190 RTK 14-JUN-2024 19:04:19.0 9763-001 rtk.asc)				
WI1H	-15403.4772	0.0342	-0.0622	0.000
BROO	-19520.4578	0.0399	0.4197	0.000
	-30446.6886	0.0458	-0.3401	
(V191 RTK 14-JUN-2024 19:09:48.0 9763-001 rtk.asc)				
WI1H	-15403.4822	0.0333	0.0602	0.000
BROO	-19520.4686	0.0353	0.3048	0.000
	-30446.6801	0.0390	-0.2385	
(V192 RTK 14-JUN-2024 19:15:16.0 9763-001 rtk.asc)				
WI1H	-15403.4827	0.0332	0.3840	0.000
BROO	-19520.4677	0.0317	-0.2272	0.000
	-30446.6824	0.0247	-0.0622	
(V193 RTK 14-JUN-2024 19:33:51.0 9763-001 rtk.asc)				
WI1H	-16722.1092	0.0299	0.3686	0.000
GW32	-23869.6991	0.0323	0.0006	0.000
	-35885.2719	0.0285	-0.0898	
(V194 RTK 17-JUN-2024 13:57:28.0 9763-001 rtk.asc)				
LD1K	-15665.8842	0.0291	0.2884	0.000
COUR	25930.2623	0.0353	-0.0185	0.000
	17697.4319	0.0347	-0.1725	
(V195 RTK 17-JUN-2024 17:48:26.0 9763-001 rtk.asc)				
WD1J	-5910.0132	0.0235	0.2053	0.000
1075	17809.2286	0.0328	-0.2511	0.000
	14931.0020	0.0284	-0.2552	
(V196 RTK 17-JUN-2024 17:53:54.0 9763-001 rtk.asc)				
WD1J	-5910.0111	0.0199	0.2259	0.000
1075	17809.2177	0.0256	-0.2537	0.000
	14931.0028	0.0240	-0.2139	
(V197 RTK 17-JUN-2024 17:59:22.0 9763-001 rtk.asc)				
WD1J	-5910.0070	0.0204	0.2926	0.000
1075	17809.2258	0.0322	-0.2767	0.000
	14930.9951	0.0236	-0.2484	

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(V198 RTK 17-JUN-2024 18:47:46.0 9763-001 rtk.asc)					
WD1J	-25779.8723	0.0275	0.3119	0.000	
BROO	26460.1851	0.0375	-0.1413	0.000	
	11073.5787	0.0372	0.3149		
(V199 RTK 17-JUN-2024 18:53:13.0 9763-001 rtk.asc)					
WD1J	-25779.8687	0.0251	0.3691	0.000	
BROO	26460.1939	0.0314	-0.1453	0.000	
	11073.5792	0.0224	0.0202		
(V200 RTK 17-JUN-2024 18:58:35.0 9763-001 rtk.asc)					
WD1J	-25779.8694	0.0240	0.3717	0.000	
BROO	26460.1885	0.0304	-0.0973	0.000	
	11073.5857	0.0219	0.0233		
(V201 RTK 17-JUN-2024 19:03:58.0 9763-001 rtk.asc)					
WD1J	-25779.8719	0.0239	0.3743	0.000	
BROO	26460.1815	0.0302	-0.0710	0.000	
	11073.5909	0.0222	0.0214		
(V202 RTK 17-JUN-2024 19:09:36.0 9763-001 rtk.asc)					
WD1J	-25779.8701	0.0245	0.3741	0.000	
BROO	26460.1762	0.0308	-0.0478	0.000	
	11073.5996	0.0230	0.0118		
(V203 PostProcessed 03-JUN-2024 12:59:42.0 9763-001 rtk.asc)					
WD1J	18852.7634	0.0068	0.8569	0.000	
LD1K	-55057.1833	0.0111	-0.8704	0.000	
	-46791.7349	0.0098	-0.8376		
(V204 PostProcessed 17-JUN-2024 12:59:42.0 9763-001 rtk.asc)					
WD1J	18852.7626	0.0089	0.8528	0.000	
LD1K	-55057.1812	0.0140	-0.8801	0.000	
	-46791.7371	0.0128	-0.8488		
(V205 PostProcessed 01-JUN-2024 13:59:42.0 9763-001 rtk.asc)					
WD1J	18852.7678	0.0085	0.8396	0.000	
LD1K	-55057.1675	0.0140	-0.8771	0.000	
	-46791.7471	0.0128	-0.8455		
(V206 PostProcessed 10-JUN-2024 12:59:42.0 9763-001 rtk.asc)					
WD1J	-28203.1656	0.0045	0.8953	0.000	
VV1I	-8584.5102	0.0071	-0.8721	0.000	
	-27821.9189	0.0065	-0.9137		
(V207 PostProcessed 03-JUN-2024 12:59:42.0 9763-001 rtk.asc)					
WD1J	-28203.1832	0.0060	0.8984	0.000	
VV1I	-8584.5318	0.0094	-0.8748	0.000	
	-27821.9015	0.0085	-0.9147		
(V208 PostProcessed 23-MAY-2024 13:59:42.0 9763-001 rtk.asc)					
WD1J	-28203.1597	0.0059	0.8993	0.000	
VV1I	-8584.5073	0.0090	-0.8664	0.000	
	-27821.9236	0.0084	-0.9142		
(V209 PostProcessed 25-MAY-2024 14:59:42.0 9763-001 rtk.asc)					

Appendix H – Star*Net Adjustment Report

WD1J	-28203.1615	0.0055	0.9071	0.000
VV1I	-8584.5036	0.0086	-0.8867	0.000
	-27821.9277	0.0080	-0.9200	
(V210 PostProcessed 29-MAY-2024 13:59:42.0 9763-001 rtk.asc)				
WD1J	-28203.1632	0.0055	0.8930	0.000
VV1I	-8584.5102	0.0087	-0.8714	0.000
	-27821.9180	0.0078	-0.9127	
(V211 PostProcessed 28-MAY-2024 13:59:42.0 9763-001 rtk.asc)				
WD1J	-28203.1618	0.0068	0.8863	0.000
VV1I	-8584.5069	0.0105	-0.8773	0.000
	-27821.9230	0.0101	-0.9146	
(V212 PostProcessed 31-MAY-2024 16:59:42.0 9763-001 rtk.asc)				
WD1J	-28203.1584	0.0075	0.9059	0.000
VV1I	-8584.5028	0.0118	-0.8801	0.000
	-27821.9218	0.0105	-0.9115	
(V213 PostProcessed 08-JUL-2024 16:59:42.0 9763-001 rtk.asc)				
WD1J	-28203.1858	0.0165	0.9185	0.000
VV1I	-8584.5291	0.0243	-0.8912	0.000
	-27821.9091	0.0218	-0.9167	
(V214 PostProcessed 11-JUL-2024 15:17:42.0 9763-001 rtk.asc)				
WD1J	-756.0704	0.0051	0.6444	0.000
03DG	-2299.4434	0.0071	-0.5431	0.000
	-2954.0063	0.0077	-0.7459	
(V215 PostProcessed 11-JUL-2024 16:57:12.0 9763-001 rtk.asc)				
WD1J	-1009.1174	0.0078	0.6632	0.000
0308	4081.8390	0.0110	-0.5696	0.000
	3655.2314	0.0078	-0.5767	
(V216 PostProcessed 12-JUL-2024 14:21:12.0 9763-001 rtk.asc)				
WD1J	-25930.9169	0.0291	0.8547	0.000
PLEA	1339.1178	0.0436	-0.7864	0.000
	-15727.6408	0.0411	-0.9113	
(V217 PostProcessed 12-JUL-2024 16:13:12.0 9763-001 rtk.asc)				
WD1J	-16527.2302	0.0338	0.9081	0.000
GW17	18929.2109	0.0571	-0.9195	0.000
	9231.2983	0.0466	-0.9236	
(V218 PostProcessed 12-JUL-2024 17:42:27.0 9763-001 rtk.asc)				
WD1J	10186.7347	0.0154	0.6473	0.000
FERR	-6226.1494	0.0204	-0.4433	0.000
	38.4570	0.0188	-0.6003	
(V219 PostProcessed 29-MAY-2024 15:55:42.0 9763-001 rtk.asc)				
WD1J	-14031.6444	0.0113	0.9131	0.000
BIRD	22887.5774	0.0173	-0.8961	0.000
	15063.3326	0.0162	-0.9295	
(V220 PostProcessed 12-JUL-2024 15:31:42.0 9763-001 rtk.asc)				
WD1J	-14031.6375	0.0370	0.9475	0.000
BIRD	22887.6151	0.0686	-0.9379	0.000

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	15063.3003	0.0646	-0.9694	
(V221 PostProcessed 10-JUN-2024 12:59:42.0 9763-001 rtk.asc)				
WD1J	-10376.3261	0.0047	0.8630	0.000
WI1H	45980.6417	0.0076	-0.8670	0.000
	41520.2719	0.0068	-0.8356	
(V222 PostProcessed 12-JUN-2024 12:59:42.0 9763-001 rtk.asc)				
WD1J	-10376.3287	0.0052	0.8665	0.000
WI1H	45980.6360	0.0086	-0.8693	0.000
	41520.2832	0.0075	-0.8316	
(V223 PostProcessed 07-JUN-2024 13:59:42.0 9763-001 rtk.asc)				
WD1J	-10376.3252	0.0063	0.8708	0.000
WI1H	45980.6403	0.0100	-0.8785	0.000
	41520.2738	0.0091	-0.8420	
(V224 PostProcessed 27-MAY-2024 13:59:42.0 9763-001 rtk.asc)				
WD1J	-10376.3283	0.0062	0.8564	0.000
WI1H	45980.6411	0.0098	-0.8646	0.000
	41520.2750	0.0091	-0.8362	
(V225 PostProcessed 28-MAY-2024 12:59:42.0 9763-001 rtk.asc)				
WD1J	-10376.3305	0.0070	0.8565	0.000
WI1H	45980.6387	0.0111	-0.8766	0.000
	41520.2729	0.0104	-0.8325	
(V226 PostProcessed 14-JUN-2024 17:59:42.0 9763-001 rtk.asc)				
WD1J	-10376.3299	0.0126	0.8927	0.000
WI1H	45980.6433	0.0192	-0.8952	0.000
	41520.2680	0.0174	-0.8424	
(V227 PostProcessed 25-MAY-2024 15:21:42.0 9763-001 rtk.asc)				
WD1J	-894.6789	0.0128	0.9152	0.000
ANDR	-22850.2966	0.0200	-0.8994	0.000
	-25049.4067	0.0187	-0.9313	
(V228 PostProcessed 03-JUN-2024 17:22:12.0 9763-001 rtk.asc)				
WD1J	3186.8435	0.0170	0.9187	0.000
COUR	-29126.9694	0.0267	-0.9043	0.000
	-29094.2579	0.0244	-0.9309	
(V229 PostProcessed 23-MAY-2024 16:15:42.0 9763-001 rtk.asc)				
WD1J	-6629.1516	0.0136	0.8951	0.000
DAVE	-7434.1972	0.0208	-0.8834	0.000
	-12308.2686	0.0194	-0.9241	
(V230 PostProcessed 23-MAY-2024 15:08:42.0 9763-001 rtk.asc)				
WD1J	-7876.7155	0.0084	0.9017	0.000
WOOD	4604.6060	0.0125	-0.8568	0.000
	-287.4766	0.0123	-0.9129	
(V231 PostProcessed 03-JUN-2024 12:59:42.0 9763-001 rtk.asc)				
LD1K	-47055.9448	0.0073	0.8067	0.000
VV1I	46472.6461	0.0113	-0.8603	0.000
	18969.8364	0.0100	-0.8840	

Appendix H – Star*Net Adjustment Report

(V232 PostProcessed 03-JUN-2024 17:22:12.0 9763-001 rtk.asc)				
LD1K	-15665.9249	0.0165	0.9197	0.000
COUR	25930.2122	0.0259	-0.9061	0.000
	17697.4873	0.0236	-0.9320	
(V233 PostProcessed 10-JUN-2024 12:59:42.0 9763-001 rtk.asc)				
VV1I	17826.8381	0.0042	0.9032	0.000
WI1H	54565.1509	0.0067	-0.8276	0.000
	69342.1925	0.0060	-0.8332	
(V234 PostProcessed 28-MAY-2024 13:59:42.0 9763-001 rtk.asc)				
VV1I	17826.8308	0.0069	0.8906	0.000
WI1H	54565.1455	0.0108	-0.8307	0.000
	69342.1979	0.0103	-0.8362	
(V235 PostProcessed 25-MAY-2024 15:21:42.0 9763-001 rtk.asc)				
VV1I	27308.4805	0.0089	0.9157	0.000
ANDR	-14265.7940	0.0138	-0.9003	0.000
	2772.5248	0.0130	-0.9314	
(V236 PostProcessed 03-JUN-2024 17:22:12.0 9763-001 rtk.asc)				
VV1I	31390.0230	0.0152	0.9192	0.000
COUR	-20542.4446	0.0237	-0.9059	0.000
	-1272.3482	0.0217	-0.9317	
(V237 PostProcessed 23-MAY-2024 16:15:42.0 9763-001 rtk.asc)				
VV1I	21574.0085	0.0120	0.9030	0.000
DAVE	1150.3085	0.0185	-0.8926	0.000
	15513.6545	0.0173	-0.9311	
(V238 PostProcessed 23-MAY-2024 15:08:42.0 9763-001 rtk.asc)				
VV1I	20326.4372	0.0124	0.9095	0.000
WOOD	13189.1155	0.0183	-0.8770	0.000
	27534.4456	0.0180	-0.9183	
(V239 PostProcessed 29-MAY-2024 15:55:42.0 9763-001 rtk.asc)				
VV1I	14171.5223	0.0142	0.9113	0.000
BIRD	31472.0984	0.0220	-0.8248	0.000
	42885.2430	0.0211	-0.8472	
(V240 PostProcessed 23-MAY-2024 16:15:42.0 9763-001 rtk.asc)				
WOOD	1247.5718	0.0104	0.9009	0.000
DAVE	-12038.8060	0.0149	-0.8674	0.000
	-12020.7908	0.0138	-0.9257	
(V481 PostProcessed 19-SEP-2024 15:50:30.0 20240919.asc)				
WD1J	4025.8296	0.0445	0.9317	0.000
GAF2	-24215.9271	0.0708	-0.8993	0.000
	-23266.3999	0.0572	-0.9359	
(V482 PostProcessed 19-SEP-2024 14:56:00.0 20240919.asc)				
WD1J	3186.8361	0.0235	0.8799	0.000
COUR	-29126.9660	0.0354	-0.8535	0.000
	-29094.2418	0.0377	-0.8602	
(V483 PostProcessed 19-SEP-2024 14:00:00.0 20240919.asc)				
WD1J	1661.0393	0.0069	0.9030	0.000

Appendix H – Star*Net Adjustment Report

P268	-17394.2791	0.0102	-0.8769	0.000
	-17498.1907	0.0095	-0.9142	
(V484 PostProcessed 19-SEP-2024 14:00:00.0 20240919.asc)				
WD1J	29921.9698	0.0090	0.9060	0.000
SACR	-20013.0003	0.0134	-0.8753	0.000
	-1727.8222	0.0124	-0.9126	
(V485 PostProcessed 19-SEP-2024 02:00:30.0 20240919.asc)				
P268	28260.9324	0.0054	0.9108	0.000
SACR	-2618.7200	0.0084	-0.8796	0.000
	15770.3632	0.0076	-0.9091	
(V486 PostProcessed 19-SEP-2024 16:39:30.0 20240919.asc)				
SACR	-18933.9587	0.0378	0.8973	0.000
T462	-5786.7202	0.0576	-0.9108	0.000
	-18635.2823	0.0549	-0.9168	
(V487 PostProcessed 19-SEP-2024 15:50:30.0 20240919.asc)				
SACR	-25896.1447	0.0433	0.9320	0.000
GAF2	-4202.9317	0.0690	-0.8999	0.000
	-21538.5750	0.0557	-0.9362	
(V488 PostProcessed 19-SEP-2024 14:56:00.0 20240919.asc)				
SACR	-26735.1403	0.0234	0.8800	0.000
COUR	-9113.9730	0.0352	-0.8535	0.000
	-27366.4188	0.0376	-0.8603	
(V489 PostProcessed 19-SEP-2024 14:00:00.0 20240919.asc)				
WD1J	-3850.3314	0.0086	0.8990	0.000
UCD1	-8917.9976	0.0127	-0.8738	0.000
	-12035.7949	0.0117	-0.8978	
(V490 PostProcessed 19-SEP-2024 14:56:00.0 20240919.asc)				
UCD1	7037.1719	0.0172	0.8771	0.000
COUR	-20208.9643	0.0258	-0.8281	0.000
	-17058.4567	0.0278	-0.8298	
(V491 PostProcessed 19-SEP-2024 16:39:30.0 20240919.asc)				
UCD1	14838.3537	0.0337	0.8961	0.000
T462	-16881.7098	0.0507	-0.9074	0.000
	-8327.3134	0.0494	-0.9044	
(V492 PostProcessed 19-SEP-2024 15:50:30.0 20240919.asc)				
UCD1	7876.1709	0.0274	0.9302	0.000
GAF2	-15297.9075	0.0439	-0.8971	0.000
	-11230.6229	0.0357	-0.9368	
(V493 PostProcessed 19-SEP-2024 16:39:30.0 20240919.asc)				
WD1J	10987.9691	0.0434	0.9002	0.000
T462	-25799.7866	0.0661	-0.9104	0.000
	-20363.0435	0.0633	-0.9202	
(V494 PostProcessed 19-SEP-2024 15:50:30.0 20240919.asc)				
GAF2	-2364.7796	0.0114	0.6499	0.000
P268	6821.6571	0.0185	-0.4674	0.000
	5768.1813	0.0143	-0.6581	

Appendix H – Star*Net Adjustment Report

(V495 PostProcessed 19-SEP-2024 14:56:00.0 20240919.asc)

P268	1525.7915	0.0095	0.6345	0.000
COUR	-11732.6994	0.0127	-0.4329	0.000
	-11596.0540	0.0114	-0.3361	

(V496 PostProcessed 19-SEP-2024 16:39:30.0 20240919.asc)

P268	9326.9812	0.0156	0.5669	0.000
T462	-8405.4182	0.0183	-0.6500	0.000
	-2864.9188	0.0219	-0.5728	

Adjustment Statistical Summary

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Iterations	=	7
Number of Stations	=	75
Number of Observations	=	832
Number of Unknowns	=	225
Number of Redundant Obs	=	607

Observation	Count	Sum Squares of StdRes	Error Factor
Coordinates	12	3.408	0.624
Angles	7	0.037	0.085
Distances	22	0.109	0.082
Az/Bearings	4	0.000	0.000
Zeniths	22	0.094	0.077
GPS Deltas	765	595.172	1.033
 Total	 832	 598.819	 0.993

The Chi-Square Test at 5.00% Level Passed
Lower/Upper Bounds (0.944/1.056)

Adjusted Station Information

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Adjusted Coordinates (Meters)

Station	N	E	Elev	Description
WD1J	611953.9603	2020229.3809	31.2561	WD1J
VV1I	576345.5699	2000862.0096	65.2366	VV1I
WI1H	665296.4868	1987065.9976	31.7317	WI1H
LD1K	552491.1027	2065398.9420	24.3745	LD1K
1	621911.3696	2031669.0443	13.1557	CONTROL NO GM
6	599063.3618	2025491.0205	12.6115	CONTROL NO GM
11	618801.0866	2003968.7679	52.1996	CONTROL NO GM
15	602672.5923	2026804.1401	8.1040	CONTROL NO GM
FREMONT	621950.3472	2031672.0036	12.3770	FREMONT
FRE3	621848.4026	2031682.7184	14.0399	FRE3
ALHAMBRA	599054.9698	2025500.8523	12.7048	ALHAMBRA
ALH3	599071.2091	2025484.6129	12.5252	ALH3
169A	618801.0866	2003965.0382	52.4464	169A
COY2	602656.6315	2026804.1401	7.9577	CONTROL
1699	618798.1582	2003964.9719	52.2517	1699

Appendix H – Star*Net Adjustment Report

COY1	602662.4122	2026818.9515	8.2927	COY1
WOOD	611561.2278	2011109.9834	39.4789	
WAPT	610659.2727	2011160.8364	41.4638	
DAVE	596210.6014	2018547.5778	19.2131	
CALD	588045.1081	2029960.6126	5.3473	
WILS	591991.1912	2026860.9173	9.4904	
PLAI	601943.5912	2017143.8481	19.7858	
CHUR	610654.5529	2017187.0204	23.9489	
ANDR	579993.3586	2031580.5395	3.6068	
RUSS	597386.4566	2010803.9920	29.2834	
YAPT	600113.7206	2012638.0287	30.1407	
CANA	605528.5513	2012334.3888	29.4570	
ABUT	607482.6974	2004191.1316	52.6370	
KEAT	615745.5912	2009879.1311	35.5969	
0308	616636.2423	2017210.6592	23.2166	
LIBR	612392.4814	2019623.3673	19.5309	
03DG	608179.0255	2020806.7951	23.5546	
RUMS	636712.0849	1978053.3618	151.0903	
GUIN	632020.8669	1981641.5761	120.6275	
BROO	626083.5162	1984347.5488	100.4261	
GW32	619096.5849	1985533.9075	112.5198	
BRID	615983.2450	1995888.5288	64.1351	
GW17	623718.2724	1996184.0304	84.6952	
X200	637545.9174	2001450.5665	29.7191	
DRAI	639717.3817	2007407.3465	12.4958	
RWF1	602093.4629	2021657.6247	14.4269	
CAST	599681.9528	2031040.1898	5.1820	
CONA	605685.5373	2030953.1921	7.6298	
EX11	608789.5559	2028943.8144	7.4404	
1031	612222.3475	2025280.2228	9.9537	
FORD	617615.5713	2023492.1279	17.1754	
F859	625046.3413	2023744.5379	13.7593	
CODY	624923.7515	2019570.0606	12.2808	
ZAMX	623534.6038	2016300.4658	12.5353	
DUFO	621750.5960	2013541.4877	19.7758	
T849	624728.2516	2007327.7484	36.0241	
1075	631090.0356	2005780.7199	14.7100	
HERS	634099.4082	2007424.6023	13.7172	
JIMX	639997.4484	2013587.0877	11.7018	
CVAP	630127.2476	2013524.4736	7.5381	
TYND	634029.4407	2015816.4567	8.7250	
SYCA	630125.3521	2021549.8244	7.5051	
B849	596245.6177	2002538.5072	39.6139	
PLEA	591798.7705	1997530.3586	45.1029	
COUR	574861.0396	2038368.4055	7.9284	
GAF2	582291.2369	2036476.9265	1.0599	
T462	586024.3488	2043220.1852	9.0698	
03BG	593206.0806	2036461.6332	9.8748	
PALA	599329.5174	2040199.9010	12.9423	
RIVE	608949.1245	2037236.2471	11.9568	
FERR	612058.0958	2032167.0519	11.9938	
COTT	607930.4624	1996901.5237	91.4601	
1069	602064.1969	2002481.6598	54.5635	
WILX	613174.3362	2002933.9357	46.8364	
SM15	618211.3097	2031895.3882	7.1367	
VINC	626056.5828	2001439.8366	48.1832	
BIRD	631194.8936	1996202.8109	94.0280	

Appendix H – Star*Net Adjustment Report

P268	589626.2590	2030856.1076	7.8632
SACR	609909.4609	2056208.5315	37.9758
UCD1	596557.2769	2021690.2911	31.2325

Adjusted Positions and Ellipsoid Heights (Meters)

Station	Latitude	Longitude	Ellip Ht	Geoid Ht
WD1J	38-40-29.915072	121-46-03.076234	0.5150	-30.7410
VV1I	38-21-15.910620	121-59-24.496992	33.6156	-31.6210
WI1H	39-09-20.355685	122-08-58.736341	1.7937	-29.9380
LD1K	38-08-13.573542	121-15-14.582771	-6.8134	-31.1879
1	38-45-51.629568	121-38-08.150278	-17.1996	-30.3553
6	38-33-31.359533	121-42-27.110949	-18.4756	-31.0871
11	38-44-12.785224	121-57-15.662708	21.4823	-30.7173
15	38-35-28.272002	121-41-32.369140	-22.8482	-30.9522
FREMONT	38-45-52.893274	121-38-08.021222	-17.9772	-30.3542
FRE3	38-45-49.585691	121-38-07.594317	-16.3172	-30.3571
ALHAMBRA	38-33-31.086340	121-42-26.705972	-18.3823	-31.0872
ALH3	38-33-31.614704	121-42-27.374564	-18.5617	-31.0870
169A	38-44-12.785285	121-57-15.817147	21.7291	-30.7173
COY2	38-35-27.754367	121-41-32.371373	-22.9950	-30.9527
1699	38-44-12.690316	121-57-15.819954	21.5343	-30.7174
COY1	38-35-27.940216	121-41-31.758516	-22.6596	-30.9523
WOOD	38-40-17.764170	121-52-20.383287	8.6015	-30.8773
WAPT	38-39-48.509963	121-52-18.332170	10.5595	-30.9043
DAVE	38-31-59.465705	121-47-14.179642	-12.0841	-31.2972
CALD	38-27-33.513115	121-39-24.218189	-26.0073	-31.3546
WILS	38-29-41.850939	121-41-31.518445	-21.8074	-31.2978
PLAI	38-35-05.498830	121-48-11.626232	-11.3411	-31.1269
CHUR	38-39-48.006649	121-48-09.060233	-6.8798	-30.8287
ANDR	38-23-12.179149	121-38-18.722899	-27.9433	-31.5501
RUSS	38-32-38.065897	121-52-33.841741	-2.0261	-31.3095
YAPT	38-34-06.427797	121-51-17.924335	-1.0793	-31.2200
CANA	38-37-02.055572	121-51-30.119034	-1.5982	-31.0552
ABUT	38-38-05.707622	121-57-06.703408	21.6234	-31.0135
KEAT	38-42-33.522793	121-53-11.086863	4.8358	-30.7611
0308	38-43-02.000496	121-48-07.543589	-7.4144	-30.6310
LIBR	38-40-44.186523	121-46-28.102917	-11.2039	-30.7348
03DG	38-38-27.439407	121-45-39.598465	-7.3099	-30.8645
RUMS	38-53-52.704318	122-15-10.820876	121.0727	-30.0176
GUIN	38-51-20.860626	122-12-41.451649	90.4626	-30.1649
BROO	38-48-08.494163	122-10-48.728129	70.1016	-30.3246
GW32	38-44-21.971507	122-09-59.028459	82.0687	-30.4511
BRID	38-42-41.395833	122-02-50.185601	33.4195	-30.7156
GW17	38-46-52.259348	122-02-38.108675	54.1345	-30.5607
X200	38-54-20.732828	121-58-59.792627	-0.5216	-30.2407
DRAI	38-55-31.047019	121-54-52.465228	-17.5714	-30.0672
RWF1	38-35-10.000725	121-45-05.103520	-16.6290	-31.0559
CAST	38-33-50.779155	121-38-37.808332	-25.7942	-30.9762
CONA	38-37-05.495495	121-38-40.432024	-23.1806	-30.8104
EX11	38-38-46.410085	121-40-03.027064	-23.2999	-30.7403
1031	38-40-38.147919	121-42-34.080128	-20.7143	-30.6680
FORD	38-43-33.236951	121-43-47.395270	-13.3312	-30.5066
F859	38-47-34.202380	121-43-36.019954	-16.4955	-30.2548
CODY	38-47-30.598023	121-46-29.023224	-18.0309	-30.3117
ZAMX	38-46-45.786961	121-48-44.632551	-17.8776	-30.4129
DUFO	38-45-48.098133	121-50-39.070127	-10.7410	-30.5168

Appendix H – Star*Net Adjustment Report

T849	38-47-24.934035	121-54-56.347538	5.5176	-30.5064
1075	38-50-51.296794	121-56-00.261204	-15.6296	-30.3396
HERS	38-52-28.849708	121-54-51.968417	-16.5094	-30.2266
JIMX	38-55-39.862863	121-50-35.877948	-18.2041	-29.9059
CVAP	38-50-19.765113	121-50-39.180095	-22.6983	-30.2364
TYND	38-52-26.179528	121-49-03.814029	-21.3321	-30.0571
SYCA	38-50-19.125110	121-45-06.394105	-22.6015	-30.1066
B849	38-32-01.292191	121-58-15.185637	8.3588	-31.2551
PLEA	38-29-37.073722	122-01-41.913716	13.9149	-31.1880
COUR	38-20-24.761733	121-33-40.053909	-23.5222	-31.4506
GAF2	38-24-26.021911	121-34-56.534655	-30.2656	-31.3255
T462	38-26-25.993523	121-30-17.765395	-21.9831	-31.0529
03BG	38-30-20.008048	121-34-55.095622	-21.1818	-31.0566
PALA	38-33-38.013183	121-32-19.523494	-17.9379	-30.8802
RIVE	38-38-50.460210	121-34-20.066523	-18.7472	-30.7040
FERR	38-40-32.009707	121-37-49.181468	-18.6343	-30.6281
COTT	38-38-20.245731	122-02-08.124298	60.6080	-30.8521
1069	38-35-09.999609	121-58-17.457552	23.4483	-31.1152
WILX	38-41-10.315390	121-57-58.599114	15.9679	-30.8685
SM15	38-43-51.602423	121-37-59.393058	-23.3205	-30.4572
VINC	38-48-08.119707	121-59-00.324968	17.6695	-30.5136
BIRD	38-50-54.736520	122-02-37.479651	63.6445	-30.3836
P268	38-28-24.680909	121-38-47.028426	-23.4193	-31.2825
SACR	38-39-17.970772	121-21-15.192932	7.5215	-30.4542
UCD1	38-32-10.450170	121-45-04.379976	-0.0054	-31.2378
			Average:	-30.7538

Convergence Angles (DMS) and Grid Factors at Stations

(Grid Azimuth = Geodetic Azimuth - Convergence)

(Elevation Factor Includes a Geoid Height Correction at Each Station))

Station	Convergence Angle	----- Factors -----		
		Scale	x Elevation	= Combined
WD1J	0-08-47.65	0.99994008	0.99999992	0.99994000
VV1I	0-00-22.38	0.99999529	0.99999473	0.99999001
WI1H	-0-05-39.66	0.99991544	0.99999972	0.99991516
LD1K	0-28-13.07	1.00005027	1.00000107	1.00005134
1	0-13-47.08	0.99993021	1.00000270	0.99993291
6	0-11-03.81	0.99995653	1.00000290	0.99995943
11	0-01-43.61	0.99993299	0.99999663	0.99992962
15	0-11-38.33	0.99995153	1.00000358	0.99995511
FREMONT	0-13-47.16	0.99993018	1.00000282	0.99993300
FRE3	0-13-47.43	0.99993027	1.00000256	0.99993283
ALHAMBRA	0-11-04.07	0.99995654	1.00000288	0.99995943
ALH3	0-11-03.65	0.99995652	1.00000291	0.99995943
169A	0-01-43.51	0.99993299	0.99999659	0.99992958
COY2	0-11-38.32	0.99995155	1.00000361	0.99995516
1699	0-01-43.51	0.99993299	0.99999662	0.99992961
COY1	0-11-38.71	0.99995154	1.00000356	0.99995510
WOOD	0-04-49.77	0.99994050	0.99999865	0.99993916
WAPT	0-04-51.07	0.99994153	0.99999834	0.99993987
DAVE	0-08-02.83	0.99996069	1.00000190	0.99996258
CALD	0-12-59.12	0.99997382	1.00000408	0.99997790
WILS	0-11-38.86	0.99996728	1.00000342	0.99997070
PLAI	0-07-26.61	0.99995248	1.00000178	0.99995426
CHUR	0-07-28.23	0.99994155	1.00000108	0.99994263
ANDR	0-13-40.41	0.99998832	1.00000438	0.99999271

Appendix H – Star*Net Adjustment Report

RUSS	0-04-41.29	0.99995892	1.00000032	0.99995924
YAPT	0-05-29.15	0.99995500	1.00000017	0.99995517
CANA	0-05-21.46	0.99994774	1.00000025	0.99994799
ABUT	0-01-49.26	0.99994529	0.99999661	0.99994190
KEAT	0-04-17.81	0.99993601	0.99999924	0.99993525
0308	0-07-29.18	0.99993512	1.00000116	0.99993628
LIBR	0-08-31.88	0.99993960	1.00000176	0.99994135
03DG	0-09-02.46	0.99994448	1.00000115	0.99994562
RUMS	-0-09-34.24	0.99991996	0.99998100	0.99990096
GUIN	-0-08-00.07	0.99992261	0.99998581	0.99990842
BROO	-0-06-49.00	0.99992675	0.99998900	0.99991575
GW32	-0-06-17.67	0.99993272	0.99998712	0.99991985
BRID	-0-01-47.30	0.99993576	0.99999476	0.99993052
GW17	-0-01-39.68	0.99992862	0.99999151	0.99992013
X200	0-00-37.96	0.99991952	1.00000008	0.99991961
DRAI	0-03-13.89	0.99991852	1.00000276	0.99992128
RWF1	0-09-24.20	0.99995229	1.00000261	0.99995490
CAST	0-13-28.38	0.99995568	1.00000405	0.99995972
CONA	0-13-26.73	0.99994761	1.00000364	0.99995124
EX11	0-12-34.65	0.99994377	1.00000366	0.99994743
1031	0-10-59.42	0.99993980	1.00000325	0.99994305
FORD	0-10-13.20	0.99993416	1.00000209	0.99993626
F859	0-10-20.37	0.99992757	1.00000259	0.99993016
CODY	0-08-31.30	0.99992766	1.00000283	0.99993049
ZAMX	0-07-05.80	0.99992879	1.00000281	0.99993159
DUFO	0-05-53.65	0.99993031	1.00000169	0.99993199
T849	0-03-11.44	0.99992780	0.99999913	0.99992694
1075	0-02-31.15	0.99992319	1.00000245	0.99992564
HERS	0-03-14.20	0.99992136	1.00000259	0.99992395
JIMX	0-05-55.66	0.99991841	1.00000286	0.99992126
CVAP	0-05-53.58	0.99992383	1.00000356	0.99992739
TYND	0-06-53.70	0.99992140	1.00000335	0.99992475
SYCA	0-09-23.39	0.99992384	1.00000355	0.99992739
B849	0-01-06.08	0.99996060	0.99999869	0.99995929
PLEA	-0-01-04.25	0.99996751	0.99999782	0.99996533
COUR	0-16-36.11	0.99999845	1.00000369	1.00000214
GAF2	0-15-47.89	0.99998407	1.00000475	0.99998881
T462	0-18-43.64	0.99997742	1.00000345	0.99998086
03BG	0-15-48.79	0.99996541	1.00000332	0.99996873
PALA	0-17-26.88	0.99995624	1.00000281	0.99995905
RIVE	0-16-10.88	0.99994362	1.00000294	0.99994656
FERR	0-13-59.04	0.99994001	1.00000292	0.99994294
COTT	-0-01-20.78	0.99994474	0.99999049	0.99993524
1069	0-01-04.65	0.99995229	0.99999632	0.99994861
WILX	0-01-16.54	0.99993871	0.99999749	0.99993621
SM15	0-13-52.60	0.99993362	1.00000366	0.99993727
VINC	0-00-37.62	0.99992676	0.99999723	0.99992398
BIRD	-0-01-39.29	0.99992312	0.99999001	0.99991314
P268	0-13-22.57	0.99997117	1.00000367	0.99997484
SACR	0-24-25.72	0.99994262	0.99999882	0.99994144
UCD1	0-09-24.66	0.99996018	1.00000000	0.99996018
Project Averages:	0-07-18.75	0.99994509	1.00000005	0.99994514

Adjusted Observations and Residuals

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Adjusted Coordinate Observations (Meters)

Appendix H – Star*Net Adjustment Report

(Stations with Partially Fixed Coordinate Components)
 (Elevations Marked with (*) are Ellipsoid Heights)

Station	Component	Adj Coordinate	Residual	StdErr	StdRes	File:Line
LD1K	N	552491.1027	-0.0002	0.0100	0.0	1:8
	E	2065398.9420	0.0048	0.0100	0.5	
	Elev	-6.8134*	-0.0064	0.0100	0.6	
VV1I	N	576345.5699	0.0092	0.0100	0.9	1:6
	E	2000862.0096	-0.0090	0.0100	0.9	
	Elev	33.6156*	0.0046	0.0100	0.5	
WD1J	N	611953.9603	-0.0027	0.0100	0.3	1:5
	E	2020229.3809	0.0018	0.0100	0.2	
	Elev	0.5150*	-0.0030	0.0100	0.3	
WI1H	N	665296.4868	-0.0063	0.0100	0.6	1:7
	E	1987065.9976	0.0024	0.0100	0.2	
	Elev	1.7937*	0.0047	0.0100	0.5	

Adjusted Measured Angle Observations (DMS)

From File:Line	At	To	Angle	Residual	Distance	StdErr	StdRes
FREMONT 1:44	1	FRE3	163-24-22.00	-0-00-01.00	-0.0003	47.54	0.0
FRE3 1:41	1	FREMONT	196-35-38.00	-0-00-01.00	-0.0002	47.54	0.0
ALHAMBRA 1:58	6	ALH3	190-17-06.00	0-00-04.00	0.0002	52.72	0.1
ALH3 1:55	6	ALHAMBRA	169-42-54.00	0-00-04.00	0.0003	52.72	0.1
1699 1:73	11	169A	37-38-50.00	0-00-00.00	0.0000	118.57	0.0
COY2 1:80	15	COY1	304-30-05.50	0-00-03.50	0.0003	31.64	0.1
COY1 1:83	15	COY2	55-29-54.50	0-00-03.50	0.0003	31.64	0.1

Adjusted Measured Distance Observations (Meters)

From	To	Distance	Residual	StdErr	StdRes	File:Line
1	FRE3	64.4451	-0.0005	0.0052	0.1	1:38
1	FRE3	64.4451	-0.0005	0.0052	0.1	1:40
1	FRE3	64.4451	0.0014	0.0052	0.3	1:44
1	FRE3	64.4451	-0.0005	0.0052	0.1	1:37
1	FREMONT	39.1001	0.0000	0.0051	0.0	1:43
1	FREMONT	39.1001	0.0000	0.0051	0.0	1:41
6	ALH3	10.1318	-0.0001	0.0051	0.0	1:51
6	ALH3	10.1318	-0.0001	0.0051	0.0	1:52
6	ALH3	10.1318	0.0002	0.0051	0.0	1:54
6	ALH3	10.1318	-0.0001	0.0051	0.0	1:58
6	ALHAMBRA	12.9272	-0.0000	0.0051	0.0	1:55
6	ALHAMBRA	12.9272	-0.0000	0.0051	0.0	1:57
11	1699	4.7959	-0.0001	0.0051	0.0	1:70
11	1699	4.7959	-0.0001	0.0051	0.0	1:72
11	1699	4.7959	0.0002	0.0051	0.0	1:69
11	169A	3.7426	0.0000	0.0051	0.0	1:73
15	COY1	18.0116	0.0000	0.0051	0.0	1:80
15	COY1	18.0116	0.0000	0.0051	0.0	1:82

Appendix H – Star*Net Adjustment Report

15	COY2	16.0326	0.0001	0.0051	0.0	1:79
15	COY2	16.0326	-0.0002	0.0051	0.0	1:77
15	COY2	16.0326	-0.0002	0.0051	0.0	1:76
15	COY2	16.0326	0.0004	0.0051	0.1	1:83

Adjusted Zenith Observations (DMS)

File:Line	From	To	Zenith	Residual	Distance	StdErr	StdRes
1:38	1	FRE3	89-12-56.50	-0-00-00.50	-0.0002	40.96	0.0
1:40	1	FRE3	89-12-56.50	0-00-00.50	0.0002	40.96	0.0
1:44	1	FRE3	89-12-56.50	-0-00-00.50	-0.0002	40.96	0.0
1:37	1	FRE3	89-12-56.50	0-00-00.50	0.0002	40.96	0.0
1:43	1	FREMONT	91-08-23.00	0-00-02.00	0.0004	11.54	0.2
1:41	1	FREMONT	91-08-23.00	-0-00-02.00	-0.0004	11.54	0.2
1:51	6	ALH3	90-29-14.50	0-00-00.50	0.0000	26.44	0.0
1:52	6	ALH3	90-29-14.50	-0-00-00.50	-0.0000	26.44	0.0
1:54	6	ALH3	90-29-14.50	-0-00-00.50	-0.0000	26.44	0.0
1:58	6	ALH3	90-29-14.50	0-00-00.50	0.0000	26.44	0.0
1:55	6	ALHAMBRA	89-35-13.00	-0-00-00.00	-0.0000	34.45	0.0
1:57	6	ALHAMBRA	89-35-13.00	-0-00-00.00	-0.0000	34.45	0.0
1:70	11	1699	88-39-00.33	-0-00-00.67	-0.0000	92.73	0.0
1:72	11	1699	88-39-00.33	-0-00-00.67	-0.0000	92.73	0.0
1:69	11	1699	88-39-00.33	0-00-01.33	0.0000	92.73	0.0
1:73	11	169A	85-17-01.00	-0-00-00.00	-0.0000	118.81	0.0
1:80	15	COY1	93-43-55.00	-0-00-00.00	-0.0000	24.76	0.0
1:82	15	COY1	93-43-55.00	-0-00-00.00	-0.0000	24.76	0.0
1:79	15	COY2	95-23-46.25	-0-00-01.75	-0.0001	27.80	0.1
1:77	15	COY2	95-23-46.25	-0-00-00.75	-0.0001	27.80	0.0
1:76	15	COY2	95-23-46.25	-0-00-01.75	-0.0001	27.80	0.1
1:83	15	COY2	95-23-46.25	0-00-04.25	0.0003	27.80	0.2

Adjusted Grid Azimuth/Bearing Observations (DMS)

Appendix H – Star*Net Adjustment Report

File:Line	From	To	Bearing	Residual	Distance	StdErr	StdRes
1:22	11	169A	S90-00-00.00W	0-00-00.00	0.0000	FIXED	0.0
1:23	15	COY2	S00-00-00.00E	0-00-00.00	0.0000	FIXED	0.0
1:21	ALHAMBRA	ALH3	N45-00-00.00W	0-00-00.00	0.0000	FIXED	0.0
1:20	FREMONT	FRE3	S06-00-00.00E	0-00-00.00	0.0000	FIXED	0.0

Adjusted GPS Vector Observations Sorted by Residuals (Meters)

From To	Component	Adj Value	Residual	StdErr	StdRes	File:Line
(V155 RTK 10-JUN-2024 22:56:37.0 9763-001 rtk.asc)						
WI1H	Delta-N	-39220.7953	0.0305	0.0393	0.8	2:778
BROO	Delta-E	-2654.0967	-0.0578	0.0299	1.9	
	Delta-U	-53.1623	-0.2081	0.0487	4.3*	
	Length	39310.5309				
(V80 RTK 01-JUN-2024 14:08:06.0 9763-001 rtk.asc)						
LD1K	Delta-N	22589.4676	0.0399	0.0688	0.6	2:401
COUR	Delta-E	-26845.8756	-0.0992	0.1612	0.6	
	Delta-U	-113.2524	-0.0722	0.1429	0.5	
	Length	35085.5798				
(V96 RTK 03-JUN-2024 17:40:59.0 9763-001 rtk.asc)						
WD1J	Delta-N	-29705.2660	0.0743	0.0344	2.2	2:481
GAF2	Delta-E	16171.7752	0.0330	0.0394	0.8	
	Delta-U	-120.6254	-0.0839	0.0689	1.2	
	Length	33822.2367				
(V493 PostProcessed 19-SEP-2024 16:39:30.0 20240919.asc)						
WD1J	Delta-N	-25989.5789	0.0030	0.0174	0.2	2:1274
T462	Delta-E	22924.7881	-0.0025	0.0162	0.2	
	Delta-U	-116.7446	-0.1047	0.0985	1.1	
	Length	34655.7030				
(V5 RTK 23-MAY-2024 18:00:45.0 9763-001 rtk.asc)						
VV1I	Delta-N	15642.3591	-0.0746	0.0305	2.4	2:26
WILS	Delta-E	26001.2968	-0.0441	0.0270	1.6	
	Delta-U	-127.5897	0.0523	0.0284	1.8	
	Length	30344.1446				
(V153 RTK 10-JUN-2024 21:54:48.0 9763-001 rtk.asc)						
WI1H	Delta-N	-28602.0464	0.0076	0.0411	0.2	2:768
RUMS	Delta-E	-8966.4384	-0.0037	0.0244	0.2	
	Delta-U	48.6795	-0.0977	0.0343	2.8	
	Length	29974.5967				
(V94 RTK 03-JUN-2024 14:29:58.0 9763-001 rtk.asc)						
WD1J	Delta-N	-20098.3009	0.0656	0.0325	2.0	2:471
PLEA	Delta-E	-22751.2491	0.0548	0.0262	2.1	
	Delta-U	-58.8803	-0.0434	0.0423	1.0	
	Length	30357.2808				

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(V97 RTK 03-JUN-2024 17:58:11.0 9763-001 rtk.asc)

WD1J	Delta-N	-25989.5789	0.0529	0.0319	1.7	2:486
T462	Delta-E	22924.7881	0.0381	0.0267	1.4	
	Delta-U	-116.7446	-0.0699	0.0443	1.6	
	Length	34655.7030				

(V106 RTK 04-JUN-2024 22:02:18.0 9763-001 rtk.asc)

WD1J	Delta-N	-3048.6613	-0.0447	0.0338	1.3	2:533
RIVE	Delta-E	17000.0125	-0.0271	0.0246	1.1	
	Delta-U	-42.6189	0.0635	0.0289	2.2	
	Length	17271.2645				

(V105 RTK 03-JUN-2024 23:07:46.0 9763-001 rtk.asc)

LD1K	Delta-N	47042.3766	-0.0506	0.0350	1.4	2:528
PALA	Delta-E	-24814.6904	-0.0409	0.0245	1.7	
	Delta-U	-233.3167	0.0436	0.0377	1.2	
	Length	53186.5443				

(V162 RTK 11-JUN-2024 15:00:05.0 9763-001 rtk.asc)

WD1J	Delta-N	19174.1075	-0.0107	0.0273	0.4	2:813
1075	Delta-E	-14400.7198	-0.0030	0.0280	0.1	
	Delta-U	-61.2817	-0.0730	0.0501	1.5	
	Length	23979.8016				

(V31 RTK 27-MAY-2024 17:10:35.0 9763-001 rtk.asc)

WD1J	Delta-N	11826.3363	0.0665	0.0265	2.5	2:156
GW17	Delta-E	-24017.0388	-0.0102	0.0259	0.4	
	Delta-U	-2.5341	-0.0290	0.0254	1.1	
	Length	26770.8869				

(V4 RTK 23-MAY-2024 17:44:12.0 9763-001 rtk.asc)

VV1I	Delta-N	11695.6685	-0.0534	0.0308	1.7	2:21
CALD	Delta-E	29100.4169	-0.0455	0.0296	1.5	
	Delta-U	-136.6771	0.0173	0.0287	0.6	
	Length	31363.0611				

(V81 RTK 01-JUN-2024 14:30:38.0 9763-001 rtk.asc)

WD1J	Delta-N	-29705.2660	0.0631	0.0331	1.9	2:406
GAF2	Delta-E	16171.7752	0.0245	0.0236	1.0	
	Delta-U	-120.6254	-0.0184	0.0340	0.5	
	Length	33822.2367				

(V154 RTK 10-JUN-2024 22:30:13.0 9763-001 rtk.asc)

WI1H	Delta-N	-33287.5969	0.0141	0.0333	0.4	2:773
GUIN	Delta-E	-5370.1102	-0.0007	0.0239	0.0	
	Delta-U	-0.6895	-0.0667	0.0333	2.0	
	Length	33717.9802				

(V194 RTK 17-JUN-2024 13:57:28.0 9763-001 rtk.asc)

LD1K	Delta-N	22589.4676	0.0017	0.0331	0.1	2:973
COUR	Delta-E	-26845.8756	-0.0060	0.0263	0.2	
	Delta-U	-113.2524	0.0669	0.0389	1.7	
	Length	35085.5798				

(V216 PostProcessed 12-JUL-2024 14:21:12.0 9763-001 rtk.asc)

WD1J	Delta-N	-20098.3009	-0.0041	0.0141	0.3	2:1085
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PLEA	Delta-E	-22751.2491	0.0007	0.0130	0.1	
	Delta-U	-58.8803	0.0603	0.0638	0.9	
	Length	30357.2808				
(V73 RTK 31-MAY-2024 17:35:33.0 9763-001 rtk.asc)						
WD1J	Delta-N	-15739.7496	0.0459	0.0356	1.3	2:366
DAVE	Delta-E	-1722.1356	0.0156	0.0258	0.6	
	Delta-U	-32.3069	-0.0357	0.0288	1.2	
	Length	15833.7144				
(V39 RTK 28-MAY-2024 13:59:01.0 9763-001 rtk.asc)						
WD1J	Delta-N	25641.4792	0.0310	0.0294	1.1	2:196
X200	Delta-E	-18714.7631	0.0393	0.0259	1.5	
	Delta-U	-80.1428	-0.0277	0.0309	0.9	
	Length	31744.8300				
(V183 RTK 14-JUN-2024 00:32:22.0 9763-001 rtk.asc)						
WD1J	Delta-N	9865.6494	-0.0519	0.0271	1.9	2:918
FRE3	Delta-E	11479.3764	0.0207	0.0211	1.0	
	Delta-U	-34.8004	0.0066	0.0222	0.3	
	Length	15136.3249				
(V492 PostProcessed 19-SEP-2024 15:50:30.0 20240919.asc)						
UCD1	Delta-N	-14306.9525	-0.0012	0.0111	0.1	2:1269
GAF2	Delta-E	14747.6783	-0.0013	0.0087	0.1	
	Delta-U	-63.3799	0.0558	0.0613	0.9	
	Length	20547.1877				
(V156 RTK 10-JUN-2024 23:16:01.0 9763-001 rtk.asc)						
WI1H	Delta-N	-46206.2617	-0.0055	0.0313	0.2	2:783
GW32	Delta-E	-1456.1273	-0.0243	0.0256	0.9	
	Delta-U	-87.7190	-0.0490	0.0428	1.1	
	Length	46229.2831				
(V115 RTK 05-JUN-2024 22:19:10.0 9763-001 rtk.asc)						
WD1J	Delta-N	4690.2709	0.0505	0.0620	0.8	2:578
0308	Delta-E	-3006.9254	0.0115	0.0605	0.2	
	Delta-U	-10.3667	0.0132	0.0472	0.3	
	Length	5571.3867				
(V190 RTK 14-JUN-2024 19:04:19.0 9763-001 rtk.asc)						
WI1H	Delta-N	-39220.7953	-0.0178	0.0405	0.4	2:953
BROO	Delta-E	-2654.0967	-0.0402	0.0369	1.1	
	Delta-U	-53.1623	0.0290	0.0430	0.7	
	Length	39310.5309				
(V189 RTK 14-JUN-2024 18:58:49.0 9763-001 rtk.asc)						
WI1H	Delta-N	-39220.7953	-0.0087	0.0911	0.1	2:948
BROO	Delta-E	-2654.0967	-0.0365	0.1344	0.3	
	Delta-U	-53.1623	0.0369	0.1177	0.3	
	Length	39310.5309				
(V87 RTK 01-JUN-2024 16:51:48.0 9763-001 rtk.asc)						
WD1J	Delta-N	-23934.6238	0.0267	0.0272	1.0	2:436
CALD	Delta-E	9670.2480	-0.0047	0.0248	0.2	
	Delta-U	-78.8787	-0.0449	0.0242	1.9	
	Length	25814.4559				

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(V47 RTK 28-MAY-2024 16:38:57.0 9763-001 rtk.asc)						
WD1J	Delta-N	-12896.7925	-0.0401	0.0207	1.9	2:236
ALH3	Delta-E	5222.4703	0.0032	0.0205	0.2	
	Delta-U	-34.2875	0.0328	0.0222	1.5	
	Length	13914.1161				
(V165 RTK 11-JUN-2024 16:44:40.0 9763-001 rtk.asc)						
WD1J	Delta-N	-3776.6132	0.0327	0.0178	1.8	2:828
03DG	Delta-E	567.7864	0.0220	0.0114	1.9	
	Delta-U	-8.9714	0.0336	0.0107	3.1*	
	Length	3819.0665				
(V6 RTK 23-MAY-2024 20:39:58.0 9763-001 rtk.asc)						
WD1J	Delta-N	-15739.7496	0.0389	0.0269	1.4	2:31
DAVE	Delta-E	-1722.1356	0.0208	0.0178	1.2	
	Delta-U	-32.3069	-0.0261	0.0247	1.1	
	Length	15833.7144				
(V74 RTK 31-MAY-2024 18:00:22.0 9763-001 rtk.asc)						
WD1J	Delta-N	-1291.7005	0.0093	0.0425	0.2	2:371
CHUR	Delta-E	-3045.8493	0.0113	0.0355	0.3	
	Delta-U	-8.2523	-0.0488	0.0179	2.7	
	Length	3308.4371				
(V18 RTK 25-MAY-2024 18:08:38.0 9763-001 rtk.asc)						
WD1J	Delta-N	-369.4715	0.0465	0.0176	2.6	2:91
WOOD	Delta-E	-9120.9242	-0.0063	0.0161	0.4	
	Delta-U	1.5627	-0.0195	0.0183	1.1	
	Length	9128.4045				
(V22 RTK 25-MAY-2024 19:22:51.0 9763-001 rtk.asc)						
WD1J	Delta-N	-3776.6132	0.0404	0.0094	4.3*	2:111
03DG	Delta-E	567.7864	0.0149	0.0090	1.7	
	Delta-U	-8.9714	-0.0267	0.0120	2.2	
	Length	3819.0665				
(V121 RTK 06-JUN-2024 16:02:22.0 9763-001 rtk.asc)						
WD1J	Delta-N	9865.6494	0.0477	0.0219	2.2	2:608
FRE3	Delta-E	11479.3764	-0.0033	0.0229	0.1	
	Delta-U	-34.8004	-0.0157	0.0254	0.6	
	Length	15136.3249				
(V48 RTK 28-MAY-2024 17:08:34.0 9763-001 rtk.asc)						
WD1J	Delta-N	-15739.7496	-0.0131	0.0233	0.6	2:241
DAVE	Delta-E	-1722.1356	0.0050	0.0221	0.2	
	Delta-U	-32.3069	0.0483	0.0200	2.4	
	Length	15833.7144				
(V184 RTK 14-JUN-2024 00:47:51.0 9763-001 rtk.asc)						
WD1J	Delta-N	6227.7794	-0.0426	0.0279	1.5	2:923
SM15	Delta-E	11682.7027	0.0233	0.0227	1.0	
	Delta-U	-37.5701	-0.0124	0.0286	0.4	
	Length	13239.0404				
(V12 RTK 25-MAY-2024 16:03:11.0 9763-001 rtk.asc)						
WD1J	Delta-N	-15739.7496	0.0455	0.0243	1.9	2:61

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DAVE	Delta-E	-1722.1356	0.0159	0.0181	0.9	
	Delta-U	-32.3069	-0.0128	0.0316	0.4	
	Length	15833.7144				
(V82 RTK 01-JUN-2024 14:48:58.0 9763-001 rtk.asc)						
WD1J	Delta-N	-25989.5789	0.0428	0.0299	1.4	2:411
T462	Delta-E	22924.7881	0.0208	0.0233	0.9	
	Delta-U	-116.7446	-0.0136	0.0342	0.4	
	Length	34655.7030				
(V163 RTK 11-JUN-2024 15:46:16.0 9763-001 rtk.asc)						
WD1J	Delta-N	9865.6494	-0.0108	0.0206	0.5	2:818
FRE3	Delta-E	11479.3764	0.0203	0.0221	0.9	
	Delta-U	-34.8004	0.0430	0.0248	1.7	
	Length	15136.3249				
(V46 RTK 28-MAY-2024 16:21:26.0 9763-001 rtk.asc)						
WD1J	Delta-N	-12300.2750	-0.0338	0.0528	0.6	2:231
CAST	Delta-E	10779.8093	-0.0016	0.0429	0.0	
	Delta-U	-47.3009	0.0351	0.0951	0.4	
	Length	16355.5278				
(V78 RTK 31-MAY-2024 21:22:56.0 9763-001 rtk.asc)						
VV1I	Delta-N	15453.8646	-0.0268	0.0271	1.0	2:391
PLEA	Delta-E	-3330.0893	-0.0374	0.0190	2.0	
	Delta-U	-39.3441	0.0131	0.0253	0.5	
	Length	15808.6360				
(V191 RTK 14-JUN-2024 19:09:48.0 9763-001 rtk.asc)						
WI1H	Delta-N	-39220.7953	-0.0170	0.0368	0.5	2:958
BROO	Delta-E	-2654.0967	-0.0417	0.0329	1.3	
	Delta-U	-53.1623	0.0144	0.0379	0.4	
	Length	39310.5309				
(V122 RTK 06-JUN-2024 16:23:47.0 9763-001 rtk.asc)						
WD1J	Delta-N	6227.7794	0.0459	0.0215	2.1	2:613
SM15	Delta-E	11682.7027	-0.0016	0.0217	0.1	
	Delta-U	-37.5701	-0.0103	0.0210	0.5	
	Length	13239.0404				
(V44 RTK 28-MAY-2024 15:46:34.0 9763-001 rtk.asc)						
WD1J	Delta-N	-9864.6229	-0.0375	0.0167	2.2	2:221
RWF1	Delta-E	1403.0779	0.0032	0.0154	0.2	
	Delta-U	-24.9480	0.0282	0.0262	1.1	
	Length	9963.9367				
(V103 RTK 03-JUN-2024 22:19:37.0 9763-001 rtk.asc)						
LD1K	Delta-N	33712.8811	-0.0216	0.0572	0.4	2:516
T462	Delta-E	-21903.1410	-0.0076	0.0311	0.2	
	Delta-U	-142.0851	0.0410	0.0334	1.2	
	Length	40203.5587				
(V126 RTK 07-JUN-2024 14:41:09.0 9763-001 rtk.asc)						
WD1J	Delta-N	28062.2235	0.0046	0.0279	0.2	2:633
JIMX	Delta-E	-6571.0487	0.0020	0.0220	0.1	
	Delta-U	-84.0052	0.0466	0.0338	1.4	
	Length	28821.4178				

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(V192 RTK 14-JUN-2024 19:15:16.0 9763-001 rtk.asc)						
WI1H	Delta-N	-39220.7953	-0.0155	0.0281	0.6	2:963
BROO	Delta-E	-2654.0967	-0.0408	0.0267	1.5	
	Delta-U	-53.1623	0.0163	0.0350	0.5	
	Length	39310.5309				
(V220 PostProcessed 12-JUL-2024 15:31:42.0 9763-001 rtk.asc)						
WD1J	Delta-N	19303.5107	0.0025	0.0120	0.2	2:1105
BIRD	Delta-E	-23979.2970	0.0116	0.0119	1.0	
	Delta-U	-11.1797	0.0448	0.0998	0.4	
	Length	30783.6374				
(V193 RTK 14-JUN-2024 19:33:51.0 9763-001 rtk.asc)						
WI1H	Delta-N	-46206.2617	-0.0258	0.0308	0.8	2:968
GW32	Delta-E	-1456.1273	-0.0088	0.0248	0.4	
	Delta-U	-87.7190	0.0372	0.0345	1.1	
	Length	46229.2831				
(V45 RTK 28-MAY-2024 16:03:28.0 9763-001 rtk.asc)						
WD1J	Delta-N	-9314.6107	-0.0396	0.0182	2.2	2:226
COY2	Delta-E	6551.2466	-0.0037	0.0164	0.2	
	Delta-U	-33.6908	0.0230	0.0272	0.8	
	Length	11387.7979				
(V85 RTK 01-JUN-2024 15:54:13.0 9763-001 rtk.asc)						
WD1J	Delta-N	-3048.6613	0.0153	0.0260	0.6	2:426
RIVE	Delta-E	17000.0125	0.0037	0.0298	0.1	
	Delta-U	-42.6189	-0.0422	0.0483	0.9	
	Length	17271.2645				
(V120 RTK 06-JUN-2024 15:30:01.0 9763-001 rtk.asc)						
WD1J	Delta-N	73.5217	0.0396	0.0229	1.7	2:603
FERR	Delta-E	11938.5728	0.0206	0.0182	1.1	
	Delta-U	-30.3085	-0.0040	0.0351	0.1	
	Length	11938.8377				
(V142 RTK 08-JUN-2024 22:07:00.0 9763-001 rtk.asc)						
WD1J	Delta-N	18191.5155	0.0297	0.0302	1.0	2:713
CVAP	Delta-E	-6658.8779	-0.0238	0.0215	1.1	
	Delta-U	-52.6998	-0.0235	0.0258	0.9	
	Length	19372.0073				
(V164 RTK 11-JUN-2024 16:02:08.0 9763-001 rtk.asc)						
WD1J	Delta-N	6227.7794	-0.0051	0.0192	0.3	2:823
SM15	Delta-E	11682.7027	0.0209	0.0196	1.1	
	Delta-U	-37.5701	0.0387	0.0193	2.0	
	Length	13239.0404				
(V116 RTK 05-JUN-2024 23:31:04.0 9763-001 rtk.asc)						
WD1J	Delta-N	-9314.6107	0.0215	0.0171	1.3	2:583
COY2	Delta-E	6551.2466	-0.0012	0.0146	0.1	
	Delta-U	-33.6908	-0.0384	0.0238	1.6	
	Length	11387.7979				
(V33 RTK 27-MAY-2024 18:00:43.0 9763-001 rtk.asc)						
WI1H	Delta-N	-25547.5500	-0.0056	0.0317	0.2	2:166

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DRAI	Delta-E	20385.0128	-0.0393	0.0252	1.6	
	Delta-U	-103.2035	0.0170	0.0312	0.5	
	Length	32683.8907				
(V108 RTK 04-JUN-2024 23:36:24.0 9763-001 rtk.asc)						
WD1J	Delta-N	-9864.6229	0.0157	0.0183	0.9	2:543
RWF1	Delta-E	1403.0779	-0.0248	0.0170	1.5	
	Delta-U	-24.9480	-0.0307	0.0263	1.2	
	Length	9963.9367				
(V149 RTK 10-JUN-2024 15:36:09.0 9763-001 rtk.asc)						
WI1H	Delta-N	-28602.0464	-0.0018	0.0225	0.1	2:748
RUMS	Delta-E	-8966.4384	0.0033	0.0227	0.1	
	Delta-U	48.6795	0.0422	0.0308	1.4	
	Length	29974.5967				
(V53 RTK 30-MAY-2024 14:01:18.0 9763-001 rtk.asc)						
WD1J	Delta-N	-1291.7005	-0.0246	0.0129	1.9	2:266
CHUR	Delta-E	-3045.8493	-0.0059	0.0109	0.5	
	Delta-U	-8.2523	0.0340	0.0141	2.4	
	Length	3308.4371				
(V21 RTK 25-MAY-2024 19:03:46.0 9763-001 rtk.asc)						
WD1J	Delta-N	440.0955	0.0386	0.0072	5.4*	2:106
LIBR	Delta-E	-604.9253	0.0162	0.0063	2.6	
	Delta-U	-11.7628	0.0058	0.0093	0.6	
	Length	748.1691				
(V86 RTK 01-JUN-2024 16:35:22.0 9763-001 rtk.asc)						
WD1J	Delta-N	-19980.5326	0.0217	0.0247	0.9	2:431
WILS	Delta-E	6580.6390	0.0031	0.0238	0.1	
	Delta-U	-57.0969	-0.0345	0.0243	1.4	
	Length	21036.3912				
(V20 RTK 25-MAY-2024 18:44:10.0 9763-001 rtk.asc)						
WD1J	Delta-N	4690.2709	0.0396	0.0111	3.6*	2:101
0308	Delta-E	-3006.9254	0.0060	0.0097	0.6	
	Delta-U	-10.3667	-0.0078	0.0146	0.5	
	Length	5571.3867				
(V91 RTK 03-JUN-2024 13:15:35.0 9763-001 rtk.asc)						
WD1J	Delta-N	-12300.2750	0.0290	0.0199	1.5	2:456
CAST	Delta-E	10779.8093	0.0069	0.0195	0.4	
	Delta-U	-47.3009	-0.0277	0.0215	1.3	
	Length	16355.5278				
(V167 RTK 11-JUN-2024 19:51:35.0 9763-001 rtk.asc)						
WD1J	Delta-N	4091.4835	-0.0284	0.0278	1.0	2:838
BRID	Delta-E	-24332.0972	0.0084	0.0201	0.4	
	Delta-U	-14.7632	0.0265	0.0285	0.9	
	Length	24673.6987				
(V151 RTK 10-JUN-2024 17:15:54.0 9763-001 rtk.asc)						
WD1J	Delta-N	12972.2517	-0.0038	0.0218	0.2	2:758
CODY	Delta-E	-626.1831	0.0093	0.0196	0.5	
	Delta-U	-31.8053	-0.0384	0.0287	1.3	
	Length	12987.3951				

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(V28 RTK 27-MAY-2024 16:14:44.0 9763-001 rtk.asc)						
WD1J	Delta-N	14221.6798	-0.0069	0.0293	0.2	2:141
BROO	Delta-E	-35848.4021	0.0170	0.0249	0.7	
	Delta-U	-46.9236	-0.0347	0.0404	0.9	
	Length	38566.3884				
(V34 RTK 27-MAY-2024 20:18:21.0 9763-001 rtk.asc)						
WD1J	Delta-N	-9864.6229	0.0286	0.0182	1.6	2:171
RWF1	Delta-E	1403.0779	0.0147	0.0170	0.9	
	Delta-U	-24.9480	-0.0218	0.0198	1.1	
	Length	9963.9367				
(V141 RTK 08-JUN-2024 21:49:51.0 9763-001 rtk.asc)						
WD1J	Delta-N	28062.2235	0.0237	0.0420	0.6	2:708
JIMX	Delta-E	-6571.0487	-0.0244	0.0254	1.0	
	Delta-U	-84.0052	-0.0180	0.0333	0.5	
	Length	28821.4178				
(V90 RTK 01-JUN-2024 18:11:07.0 9763-001 rtk.asc)						
VV1I	Delta-N	3643.5317	-0.0221	0.0307	0.7	2:451
ANDR	Delta-E	30719.0337	-0.0276	0.0666	0.4	
	Delta-U	-136.4838	-0.0145	0.1032	0.1	
	Length	30934.6566				
(V60 RTK 30-MAY-2024 16:03:14.0 9763-001 rtk.asc)						
WD1J	Delta-N	9814.3048	0.0199	0.0201	1.0	2:301
DUFO	Delta-E	-6663.2622	-0.0095	0.0170	0.6	
	Delta-U	-22.3040	0.0307	0.0253	1.2	
	Length	11862.5520				
(V66 RTK 30-MAY-2024 18:20:02.0 9763-001 rtk.asc)						
WD1J	Delta-N	22088.1197	0.0078	0.0396	0.2	2:331
TYND	Delta-E	-4356.7652	0.0283	0.0339	0.8	
	Delta-U	-61.6865	0.0233	0.0627	0.4	
	Length	22513.7789				
(V187 RTK 14-JUN-2024 18:37:53.0 9763-001 rtk.asc)						
WI1H	Delta-N	-33287.5969	-0.0093	0.0269	0.3	2:938
GUIN	Delta-E	-5370.1102	0.0022	0.0253	0.1	
	Delta-U	-0.6895	0.0360	0.0343	1.0	
	Length	33717.9802				
(V11 RTK 25-MAY-2024 15:06:54.0 9763-001 rtk.asc)						
VV1I	Delta-N	3643.5317	-0.0100	0.0265	0.4	2:56
ANDR	Delta-E	30719.0337	-0.0237	0.0228	1.0	
	Delta-U	-136.4838	-0.0268	0.0326	0.8	
	Length	30934.6566				
(V123 RTK 06-JUN-2024 17:07:35.0 9763-001 rtk.asc)						
WD1J	Delta-N	-12896.7925	0.0281	0.0246	1.1	2:618
ALH3	Delta-E	5222.4703	-0.0007	0.0214	0.0	
	Delta-U	-34.2875	-0.0241	0.0219	1.1	
	Length	13914.1161				
(V231 PostProcessed 03-JUN-2024 12:59:42.0 9763-001 rtk.asc)						
LD1K	Delta-N	24377.6004	0.0022	0.0033	0.7	2:1160

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VV1I	Delta-E	-64338.5331	0.0016	0.0038	0.4	
	Delta-U	-330.3842	-0.0368	0.0160	2.3	
	Length	68802.7862				
(V188 RTK 14-JUN-2024 18:43:20.0 9763-001 rtk.asc)						
WI1H	Delta-N	-33287.5969	-0.0073	0.0256	0.3	2:943
GUIN	Delta-E	-5370.1102	-0.0024	0.0231	0.1	
	Delta-U	-0.6895	0.0354	0.0320	1.1	
	Length	33717.9802				
(V127 RTK 07-JUN-2024 14:58:52.0 9763-001 rtk.asc)						
WD1J	Delta-N	18191.5155	-0.0001	0.0427	0.0	2:638
CVAP	Delta-E	-6658.8779	0.0026	0.0337	0.1	
	Delta-U	-52.6998	0.0361	0.0568	0.6	
	Length	19372.0073				
(V92 RTK 03-JUN-2024 13:32:56.0 9763-001 rtk.asc)						
WD1J	Delta-N	-12896.7925	0.0207	0.0199	1.0	2:461
ALH3	Delta-E	5222.4703	0.0106	0.0184	0.6	
	Delta-U	-34.2875	-0.0274	0.0212	1.3	
	Length	13914.1161				
(V109 RTK 05-JUN-2024 19:51:20.0 9763-001 rtk.asc)						
WD1J	Delta-N	73.5217	-0.0299	0.0217	1.4	2:548
FERR	Delta-E	11938.5728	0.0023	0.0163	0.1	
	Delta-U	-30.3085	0.0166	0.0214	0.8	
	Length	11938.8377				
(V93 RTK 03-JUN-2024 14:05:20.0 9763-001 rtk.asc)						
WD1J	Delta-N	-15664.0012	0.0282	0.0300	0.9	2:466
B849	Delta-E	-17731.6993	0.0154	0.0238	0.6	
	Delta-U	-36.0605	-0.0111	0.0342	0.3	
	Length	23659.5730				
(V114 RTK 05-JUN-2024 22:00:46.0 9763-001 rtk.asc)						
WD1J	Delta-N	3818.2755	0.0127	0.0592	0.2	2:573
KEAT	Delta-E	-10341.1815	-0.0097	0.0351	0.3	
	Delta-U	-5.1977	0.0296	0.0374	0.8	
	Length	11023.5788				
(V130 RTK 07-JUN-2024 15:33:14.0 9763-001 rtk.asc)						
WD1J	Delta-N	18169.1126	-0.0218	0.0597	0.4	2:653
SYCA	Delta-E	1367.0234	0.0233	0.0370	0.6	
	Delta-U	-49.2138	-0.0092	0.1127	0.1	
	Length	18220.5331				
(V62 RTK 30-MAY-2024 16:44:39.0 9763-001 rtk.asc)						
WD1J	Delta-N	19174.1075	0.0109	0.0369	0.3	2:311
1075	Delta-E	-14400.7198	-0.0195	0.0377	0.5	
	Delta-U	-61.2817	0.0237	0.0317	0.7	
	Length	23979.8016				
(V140 RTK 08-JUN-2024 20:57:31.0 9763-001 rtk.asc)						
WD1J	Delta-N	6227.7794	-0.0126	0.0212	0.6	2:703
SM15	Delta-E	11682.7027	-0.0163	0.0153	1.1	
	Delta-U	-37.5701	-0.0246	0.0210	1.2	
	Length	13239.0404				

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(V42 RTK 28-MAY-2024 15:12:28.0 9763-001 rtk.asc)

WD1J	Delta-N	440.0955	-0.0194	0.0092	2.1	2:211
LIBR	Delta-E	-604.9253	0.0014	0.0073	0.2	
	Delta-U	-11.7628	0.0254	0.0108	2.4	
	Length	748.1691				

(V144 RTK 08-JUN-2024 22:39:06.0 9763-001 rtk.asc)

WD1J	Delta-N	18169.1126	0.0174	0.0259	0.7	2:723
SYCA	Delta-E	1367.0234	-0.0141	0.0180	0.8	
	Delta-U	-49.2138	-0.0224	0.0235	1.0	
	Length	18220.5331				

(V487 PostProcessed 19-SEP-2024 15:50:30.0 20240919.asc)

SACR	Delta-N	-27478.3804	0.0031	0.0177	0.2	2:1244
GAF2	Delta-E	-19927.5517	-0.0043	0.0135	0.3	
	Delta-U	-128.2362	0.0311	0.0962	0.3	
	Length	33943.8529				

(V481 PostProcessed 19-SEP-2024 15:50:30.0 20240919.asc)

WD1J	Delta-N	-29705.2660	-0.0009	0.0182	0.0	2:1214
GAF2	Delta-E	16171.7752	-0.0045	0.0139	0.3	
	Delta-U	-120.6254	0.0308	0.0987	0.3	
	Length	33822.2367				

(V64 RTK 30-MAY-2024 17:43:54.0 9763-001 rtk.asc)

WD1J	Delta-N	28062.2235	0.0014	0.0320	0.0	2:321
JIMX	Delta-E	-6571.0487	0.0252	0.0273	0.9	
	Delta-U	-84.0052	-0.0182	0.0295	0.6	
	Length	28821.4178				

(V102 RTK 03-JUN-2024 22:02:03.0 9763-001 rtk.asc)

LD1K	Delta-N	30034.7514	-0.0163	0.0407	0.4	2:511
GAF2	Delta-E	-28676.6639	-0.0134	0.0273	0.5	
	Delta-U	-158.7575	0.0218	0.0316	0.7	
	Length	41526.6487				

(V61 RTK 30-MAY-2024 16:22:27.0 9763-001 rtk.asc)

WD1J	Delta-N	12808.0139	0.0083	0.0240	0.3	2:306
T849	Delta-E	-12869.8435	-0.0286	0.0232	1.2	
	Delta-U	-20.8606	0.0054	0.0286	0.2	
	Length	18157.0517				

(V29 RTK 27-MAY-2024 16:34:09.0 9763-001 rtk.asc)

WD1J	Delta-N	7231.2375	0.0187	0.0285	0.7	2:146
GW32	Delta-E	-34679.6981	0.0235	0.0268	0.9	
	Delta-U	-16.7144	0.0001	0.0350	0.0	
	Length	35425.5915				

(V143 RTK 08-JUN-2024 22:22:25.0 9763-001 rtk.asc)

WD1J	Delta-N	22088.1197	0.0197	0.0315	0.6	2:718
TYND	Delta-E	-4356.7652	-0.0152	0.0227	0.7	
	Delta-U	-61.6865	-0.0160	0.0276	0.6	
	Length	22513.7789				

(V207 PostProcessed 03-JUN-2024 12:59:42.0 9763-001 rtk.asc)

WD1J	Delta-N	-35560.1837	0.0028	0.0027	1.1	2:1040
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VV1I	Delta-E	-19458.5637	0.0041	0.0023	1.8	
	Delta-U	-95.9527	-0.0291	0.0136	2.1	
	Length	40536.0528				
(V170 RTK 12-JUN-2024 14:05:47.0 9763-001 rtk.asc)						
WD1J	Delta-N	27797.8839	-0.0054	0.0302	0.2	2:853
DRAI	Delta-E	-12751.9653	0.0237	0.0236	1.0	
	Delta-U	-91.5622	-0.0157	0.0355	0.4	
	Length	30583.3836				
(V99 RTK 03-JUN-2024 18:36:08.0 9763-001 rtk.asc)						
WD1J	Delta-N	-12676.3277	0.0132	0.0242	0.5	2:496
PALA	Delta-E	19938.9444	0.0171	0.0223	0.8	
	Delta-U	-62.2108	-0.0183	0.0334	0.5	
	Length	23627.4133				
(V10 RTK 23-MAY-2024 22:15:46.0 9763-001 rtk.asc)						
WD1J	Delta-N	-369.4715	0.0247	0.0183	1.4	2:51
WOOD	Delta-E	-9120.9242	-0.0038	0.0145	0.3	
	Delta-U	1.5627	-0.0134	0.0204	0.7	
	Length	9128.4045				
(V150 RTK 10-JUN-2024 17:02:14.0 9763-001 rtk.asc)						
WD1J	Delta-N	11591.3720	-0.0051	0.0203	0.3	2:753
ZAMX	Delta-E	-3899.5439	0.0126	0.0191	0.7	
	Delta-U	-30.1454	-0.0246	0.0213	1.2	
	Length	12229.7692				
(V49 RTK 28-MAY-2024 17:37:59.0 9763-001 rtk.asc)						
WD1J	Delta-N	-10002.9660	0.0207	0.0191	1.1	2:246
PLAI	Delta-E	-3111.2728	0.0109	0.0187	0.6	
	Delta-U	-20.4799	-0.0155	0.0177	0.9	
	Length	10475.6750				
(V176 RTK 12-JUN-2024 22:45:34.0 9763-001 rtk.asc)						
WD1J	Delta-N	-3776.6132	-0.0213	0.0108	2.0	2:883
03DG	Delta-E	567.7864	0.0018	0.0090	0.2	
	Delta-U	-8.9714	0.0182	0.0127	1.4	
	Length	3819.0665				
(V217 PostProcessed 12-JUL-2024 16:13:12.0 9763-001 rtk.asc)						
WD1J	Delta-N	11826.3363	-0.0271	0.0140	1.9	2:1090
GW17	Delta-E	-24017.0388	0.0043	0.0127	0.3	
	Delta-U	-2.5341	0.0005	0.0788	0.0	
	Length	26770.8869				
(V129 RTK 07-JUN-2024 15:18:18.0 9763-001 rtk.asc)						
WD1J	Delta-N	22088.1197	0.0075	0.0272	0.3	2:648
TYND	Delta-E	-4356.7652	-0.0016	0.0218	0.1	
	Delta-U	-61.6865	0.0263	0.0383	0.7	
	Length	22513.7789				
(V218 PostProcessed 12-JUL-2024 17:42:27.0 9763-001 rtk.asc)						
WD1J	Delta-N	73.5217	-0.0153	0.0131	1.2	2:1095
FERR	Delta-E	11938.5728	-0.0055	0.0102	0.5	
	Delta-U	-30.3085	0.0220	0.0270	0.8	
	Length	11938.8377				

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(V139 RTK 08-JUN-2024 20:40:41.0 9763-001 rtk.asc)						
WD1J	Delta-N	9865.6494	-0.0079	0.0226	0.3	2:698
FRE3	Delta-E	11479.3764	-0.0144	0.0160	0.9	
	Delta-U	-34.8004	-0.0211	0.0229	0.9	
	Length	15136.3249				
(V23 RTK 25-MAY-2024 22:03:36.0 9763-001 rtk.asc)						
VV1I	Delta-N	3643.5317	0.0014	0.0396	0.0	2:116
ANDR	Delta-E	30719.0337	-0.0199	0.0335	0.6	
	Delta-U	-136.4838	-0.0175	0.0618	0.3	
	Length	30934.6566				
(V213 PostProcessed 08-JUL-2024 16:59:42.0 9763-001 rtk.asc)						
WD1J	Delta-N	-35560.1837	0.0082	0.0069	1.2	2:1070
VV1I	Delta-E	-19458.5637	0.0078	0.0055	1.4	
	Delta-U	-95.9527	-0.0236	0.0355	0.7	
	Length	40536.0528				
(V30 RTK 27-MAY-2024 16:55:00.0 9763-001 rtk.asc)						
WD1J	Delta-N	4091.4835	0.0197	0.0250	0.8	2:151
BRID	Delta-E	-24332.0972	0.0068	0.0250	0.3	
	Delta-U	-14.7632	-0.0151	0.0251	0.6	
	Length	24673.6987				
(V54 RTK 30-MAY-2024 14:29:50.0 9763-001 rtk.asc)						
WD1J	Delta-N	255.4659	0.0199	0.0138	1.4	2:271
1031	Delta-E	5051.7992	0.0009	0.0108	0.1	
	Delta-U	-23.2325	-0.0162	0.0148	1.1	
	Length	5058.3078				
(V199 RTK 17-JUN-2024 18:53:13.0 9763-001 rtk.asc)						
WD1J	Delta-N	14221.6798	0.0026	0.0269	0.1	2:998
BROO	Delta-E	-35848.4021	0.0196	0.0217	0.9	
	Delta-U	-46.9236	0.0159	0.0304	0.5	
	Length	38566.3884				
(V3 RTK 23-MAY-2024 15:58:29.0 9763-001 rtk.asc)						
WD1J	Delta-N	-15739.7496	-0.0118	0.0235	0.5	2:16
DAVE	Delta-E	-1722.1356	0.0068	0.0181	0.4	
	Delta-U	-32.3069	0.0214	0.0304	0.7	
	Length	15833.7144				
(V128 RTK 07-JUN-2024 15:02:55.0 9763-001 rtk.asc)						
WD1J	Delta-N	18191.5155	0.0021	0.0256	0.1	2:643
CVAP	Delta-E	-6658.8779	0.0026	0.0198	0.1	
	Delta-U	-52.6998	0.0251	0.0330	0.8	
	Length	19372.0073				
(V69 RTK 30-MAY-2024 19:08:33.0 9763-001 rtk.asc)						
WD1J	Delta-N	5653.5832	-0.0112	0.0132	0.9	2:346
FORD	Delta-E	3277.4283	0.0014	0.0119	0.1	
	Delta-U	-17.1999	0.0225	0.0170	1.3	
	Length	6534.8936				
(V88 RTK 01-JUN-2024 17:18:38.0 9763-001 rtk.asc)						
VV1I	Delta-N	3643.5317	-0.0119	0.0295	0.4	2:441

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ANDR	Delta-E	30719.0337	-0.0151	0.0266	0.6	
	Delta-U	-136.4838	0.0161	0.0265	0.6	
	Length	30934.6566				
(V186 RTK 14-JUN-2024 18:14:55.0 9763-001 rtk.asc)						
WI1H	Delta-N	-28602.0464	0.0040	0.0159	0.3	2:933
RUMS	Delta-E	-8966.4384	-0.0001	0.0151	0.0	
	Delta-U	48.6795	0.0247	0.0229	1.1	
	Length	29974.5967				
(V101 RTK 03-JUN-2024 21:39:43.0 9763-001 rtk.asc)						
LD1K	Delta-N	22589.4676	0.0111	0.0279	0.4	2:506
COUR	Delta-E	-26845.8756	-0.0122	0.0216	0.6	
	Delta-U	-113.2524	0.0187	0.0287	0.7	
	Length	35085.5798				
(V132 RTK 07-JUN-2024 20:16:28.0 9763-001 rtk.asc)						
WD1J	Delta-N	12972.2517	-0.0032	0.0242	0.1	2:663
CODY	Delta-E	-626.1831	-0.0027	0.0167	0.2	
	Delta-U	-31.8053	0.0242	0.0255	0.9	
	Length	12987.3951				
(V43 RTK 28-MAY-2024 15:31:25.0 9763-001 rtk.asc)						
WD1J	Delta-N	-3776.6132	-0.0190	0.0100	1.9	2:216
03DG	Delta-E	567.7864	0.0030	0.0085	0.4	
	Delta-U	-8.9714	-0.0147	0.0135	1.1	
	Length	3819.0665				
(V41 RTK 28-MAY-2024 14:52:43.0 9763-001 rtk.asc)						
WD1J	Delta-N	4690.2709	-0.0207	0.0135	1.5	2:206
0308	Delta-E	-3006.9254	0.0016	0.0114	0.1	
	Delta-U	-10.3667	0.0119	0.0143	0.8	
	Length	5571.3867				
(V496 PostProcessed 19-SEP-2024 16:39:30.0 20240919.asc)						
P268	Delta-N	-3650.1990	-0.0097	0.0129	0.8	2:1289
T462	Delta-E	12350.1981	0.0006	0.0111	0.1	
	Delta-U	-11.5529	0.0216	0.0277	0.8	
	Length	12878.3337				
(V55 RTK 30-MAY-2024 14:46:00.0 9763-001 rtk.asc)						
WD1J	Delta-N	5653.5832	0.0007	0.0155	0.0	2:276
FORD	Delta-E	3277.4283	0.0072	0.0149	0.5	
	Delta-U	-17.1999	-0.0223	0.0177	1.3	
	Length	6534.8936				
(V35 RTK 27-MAY-2024 20:34:39.0 9763-001 rtk.asc)						
WD1J	Delta-N	-9314.6107	0.0222	0.0205	1.1	2:176
COY2	Delta-E	6551.2466	0.0070	0.0169	0.4	
	Delta-U	-33.6908	-0.0003	0.0208	0.0	
	Length	11387.7979				
(V185 RTK 14-JUN-2024 18:09:32.0 9763-001 rtk.asc)						
WI1H	Delta-N	-28602.0464	0.0014	0.0245	0.1	2:928
RUMS	Delta-E	-8966.4384	-0.0082	0.0226	0.4	
	Delta-U	48.6795	0.0216	0.0331	0.7	
	Length	29974.5967				

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(V205 PostProcessed 01-JUN-2024 13:59:42.0 9763-001 rtk.asc)						
WD1J	Delta-N	-59579.1225	-0.0000	0.0048	0.0	2:1030
LD1K	Delta-E	45014.6254	0.0030	0.0041	0.7	
	Delta-U	-445.0445	0.0229	0.0198	1.2	
	Length	74673.8669				
(V177 RTK 13-JUN-2024 17:17:36.0 9763-001 rtk.asc)						
WD1J	Delta-N	12808.0139	-0.0027	0.0226	0.1	2:888
T849	Delta-E	-12869.8435	0.0013	0.0270	0.0	
	Delta-U	-20.8606	-0.0228	0.0619	0.4	
	Length	18157.0517				
(V19 RTK 25-MAY-2024 18:24:52.0 9763-001 rtk.asc)						
WD1J	Delta-N	3818.2755	0.0028	0.0189	0.2	2:96
KEAT	Delta-E	-10341.1815	-0.0141	0.0167	0.8	
	Delta-U	-5.1977	-0.0177	0.0235	0.8	
	Length	11023.5788				
(V32 RTK 27-MAY-2024 17:44:32.0 9763-001 rtk.asc)						
WI1H	Delta-N	-27729.0662	-0.0111	0.0353	0.3	2:161
X200	Delta-E	14431.3942	-0.0188	0.0275	0.7	
	Delta-U	-79.0613	0.0064	0.0332	0.2	
	Length	31259.7586				
(V95 RTK 03-JUN-2024 17:08:14.0 9763-001 rtk.asc)						
LD1K	Delta-N	22589.4676	0.0164	0.0293	0.6	2:476
COUR	Delta-E	-26845.8756	0.0075	0.0263	0.3	
	Delta-U	-113.2524	0.0137	0.0276	0.5	
	Length	35085.5798				
(V174 RTK 12-JUN-2024 22:02:50.0 9763-001 rtk.asc)						
WD1J	Delta-N	440.0955	-0.0212	0.0106	2.0	2:873
LIBR	Delta-E	-604.9253	-0.0038	0.0068	0.6	
	Delta-U	-11.7628	-0.0071	0.0083	0.8	
	Length	748.1691				
(V198 RTK 17-JUN-2024 18:47:46.0 9763-001 rtk.asc)						
WD1J	Delta-N	14221.6798	0.0089	0.0415	0.2	2:993
BROO	Delta-E	-35848.4021	0.0180	0.0255	0.7	
	Delta-U	-46.9236	0.0089	0.0343	0.3	
	Length	38566.3884				
(V2 RTK 23-MAY-2024 15:28:47.0 9763-001 rtk.asc)						
WD1J	Delta-N	-1271.6081	-0.0218	0.0282	0.8	2:11
WAPT	Delta-E	-9072.3692	-0.0019	0.0220	0.1	
	Delta-U	3.4735	-0.0024	0.0306	0.1	
	Length	9161.0525				
(V65 RTK 30-MAY-2024 18:01:09.0 9763-001 rtk.asc)						
WD1J	Delta-N	18191.5155	0.0022	0.0273	0.1	2:326
CVAP	Delta-E	-6658.8779	0.0218	0.0232	0.9	
	Delta-U	-52.6998	0.0016	0.0302	0.1	
	Length	19372.0073				
(V168 RTK 11-JUN-2024 20:06:42.0 9763-001 rtk.asc)						
WD1J	Delta-N	11826.3363	0.0155	0.0224	0.7	2:843

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GW17	Delta-E	-24017.0388	0.0025	0.0151	0.2	
	Delta-U	-2.5341	0.0153	0.0263	0.6	
	Length	26770.8869				
(V1 RTK 23-MAY-2024 14:51:09.0 9763-001 rtk.asc)						
WD1J	Delta-N	-369.4715	0.0201	0.0198	1.0	2:6
WOOD	Delta-E	-9120.9242	-0.0084	0.0143	0.6	
	Delta-U	1.5627	-0.0004	0.0200	0.0	
	Length	9128.4045				
(V119 RTK 06-JUN-2024 14:29:13.0 9763-001 rtk.asc)						
WD1J	Delta-N	6889.0229	0.0197	0.0221	0.9	2:598
169A	Delta-E	-16247.9003	-0.0086	0.0188	0.5	
	Delta-U	-3.1849	0.0013	0.0260	0.1	
	Length	17648.0285				
(V59 RTK 30-MAY-2024 15:47:05.0 9763-001 rtk.asc)						
WD1J	Delta-N	11591.3720	0.0106	0.0213	0.5	2:296
ZAMX	Delta-E	-3899.5439	-0.0075	0.0166	0.4	
	Delta-U	-30.1454	0.0169	0.0277	0.6	
	Length	12229.7692				
(V40 RTK 28-MAY-2024 14:28:15.0 9763-001 rtk.asc)						
WD1J	Delta-N	3818.2755	-0.0096	0.0212	0.5	2:201
KEAT	Delta-E	-10341.1815	0.0186	0.0206	0.9	
	Delta-U	-5.1977	-0.0017	0.0216	0.1	
	Length	11023.5788				
(V107 RTK 04-JUN-2024 22:56:40.0 9763-001 rtk.asc)						
WD1J	Delta-N	73.5217	0.0193	0.0217	0.9	2:538
FERR	Delta-E	11938.5728	-0.0068	0.0161	0.4	
	Delta-U	-30.3085	-0.0035	0.0210	0.2	
	Length	11938.8377				
(V68 RTK 30-MAY-2024 18:53:37.0 9763-001 rtk.asc)						
WD1J	Delta-N	13084.1661	-0.0061	0.0221	0.3	2:341
F859	Delta-E	3548.8852	0.0004	0.0199	0.0	
	Delta-U	-31.4545	-0.0198	0.0290	0.7	
	Length	13556.9532				
(V135 RTK 07-JUN-2024 21:03:27.0 9763-001 rtk.asc)						
WD1J	Delta-N	12808.0139	-0.0129	0.0232	0.6	2:678
T849	Delta-E	-12869.8435	0.0019	0.0186	0.1	
	Delta-U	-20.8606	0.0158	0.0247	0.6	
	Length	18157.0517				
(V495 PostProcessed 19-SEP-2024 14:56:00.0 20240919.asc)						
P268	Delta-N	-14794.5471	0.0023	0.0098	0.2	2:1284
COUR	Delta-E	7454.7728	0.0036	0.0064	0.6	
	Delta-U	-21.6611	-0.0199	0.0156	1.3	
	Length	16566.6149				
(V180 RTK 13-JUN-2024 22:27:38.0 9763-001 rtk.asc)						
WD1J	Delta-N	14151.4217	0.0070	0.0317	0.2	2:903
VINC	Delta-E	-18754.8052	0.0025	0.0220	0.1	
	Delta-U	-26.1263	-0.0189	0.0278	0.7	
	Length	23494.8109				

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(V152 RTK 10-JUN-2024 20:23:25.0 9763-001 rtk.asc)						
WI1H	Delta-N	-27729.0662	-0.0176	0.0236	0.7	2:763
X200	Delta-E	14431.3942	-0.0097	0.0167	0.6	
	Delta-U	-79.0613	0.0019	0.0250	0.1	
	Length	31259.7586				
(V98 RTK 03-JUN-2024 18:19:12.0 9763-001 rtk.asc)						
WD1J	Delta-N	-18790.3002	-0.0032	0.0264	0.1	2:491
03BG	Delta-E	16184.7288	-0.0026	0.0224	0.1	
	Delta-U	-69.9614	-0.0198	0.0347	0.6	
	Length	24799.7122				
(V89 RTK 01-JUN-2024 17:24:16.0 9763-001 rtk.asc)						
VV1I	Delta-N	3643.5317	-0.0086	0.0128	0.7	2:446
ANDR	Delta-E	30719.0337	-0.0180	0.0113	1.6	
	Delta-U	-136.4838	0.0012	0.0151	0.1	
	Length	30934.6566				
(V113 RTK 05-JUN-2024 21:44:52.0 9763-001 rtk.asc)						
WD1J	Delta-N	6889.0229	0.0077	0.0278	0.3	2:568
169A	Delta-E	-16247.9003	-0.0144	0.0224	0.6	
	Delta-U	-3.1849	0.0111	0.0263	0.4	
	Length	17648.0285				
(V200 RTK 17-JUN-2024 18:58:35.0 9763-001 rtk.asc)						
WD1J	Delta-N	14221.6798	0.0006	0.0264	0.0	2:1003
BROO	Delta-E	-35848.4021	0.0174	0.0207	0.8	
	Delta-U	-46.9236	0.0080	0.0292	0.3	
	Length	38566.3884				
(V175 RTK 12-JUN-2024 22:26:11.0 9763-001 rtk.asc)						
WD1J	Delta-N	255.4659	-0.0167	0.0131	1.3	2:878
1031	Delta-E	5051.7992	0.0029	0.0100	0.3	
	Delta-U	-23.2325	0.0088	0.0127	0.7	
	Length	5058.3078				
(V482 PostProcessed 19-SEP-2024 14:56:00.0 20240919.asc)						
WD1J	Delta-N	-37140.2800	-0.0084	0.0140	0.6	2:1219
COUR	Delta-E	18044.0146	0.0058	0.0096	0.6	
	Delta-U	-157.9692	-0.0159	0.0542	0.3	
	Length	41291.7887				
(V214 PostProcessed 11-JUL-2024 15:17:42.0 9763-001 rtk.asc)						
WD1J	Delta-N	-3776.6132	-0.0053	0.0041	1.3	2:1075
03DG	Delta-E	567.7864	-0.0062	0.0034	1.8	
	Delta-U	-8.9714	-0.0169	0.0103	1.6	
	Length	3819.0665				
(V195 RTK 17-JUN-2024 17:48:26.0 9763-001 rtk.asc)						
WD1J	Delta-N	19174.1075	-0.0088	0.0250	0.4	2:978
1075	Delta-E	-14400.7198	0.0165	0.0236	0.7	
	Delta-U	-61.2817	0.0014	0.0354	0.0	
	Length	23979.8016				
(V158 RTK 11-JUN-2024 13:30:58.0 9763-001 rtk.asc)						
WD1J	Delta-N	1264.5289	0.0047	0.0262	0.2	2:793

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WILX	Delta-E	-17293.3489	-0.0070	0.0210	0.3	
	Delta-U	-8.0863	-0.0162	0.0296	0.5	
	Length	17339.5218				
(V37 RTK 27-MAY-2024 21:09:10.0 9763-001 rtk.asc)						
WD1J	Delta-N	-12896.7925	0.0077	0.0295	0.3	2:186
ALH3	Delta-E	5222.4703	0.0026	0.0182	0.1	
	Delta-U	-34.2875	0.0163	0.0238	0.7	
	Length	13914.1161				
(V72 RTK 30-MAY-2024 22:10:12.0 9763-001 rtk.asc)						
WD1J	Delta-N	-11821.4283	-0.0001	0.0239	0.0	2:361
YAPT	Delta-E	-7621.9563	-0.0171	0.0189	0.9	
	Delta-U	-17.1284	-0.0063	0.0221	0.3	
	Length	14065.5849				
(V488 PostProcessed 19-SEP-2024 14:56:00.0 20240919.asc)						
SACR	Delta-N	-34921.7677	-0.0010	0.0139	0.1	2:1249
COUR	Delta-E	-18088.6653	0.0068	0.0095	0.7	
	Delta-U	-152.5339	-0.0168	0.0540	0.3	
	Length	39328.7801				
(V215 PostProcessed 11-JUL-2024 16:57:12.0 9763-001 rtk.asc)						
WD1J	Delta-N	4690.2709	-0.0106	0.0062	1.7	2:1080
0308	Delta-E	-3006.9254	-0.0008	0.0051	0.1	
	Delta-U	-10.3667	0.0147	0.0133	1.1	
	Length	5571.3867				
(V100 RTK 03-JUN-2024 18:57:59.0 9763-001 rtk.asc)						
WD1J	Delta-N	-3048.6613	0.0068	0.0149	0.5	2:501
RIVE	Delta-E	17000.0125	0.0011	0.0132	0.1	
	Delta-U	-42.6189	-0.0167	0.0234	0.7	
	Length	17271.2645				
(V232 PostProcessed 03-JUN-2024 17:22:12.0 9763-001 rtk.asc)						
LD1K	Delta-N	22589.4676	-0.0024	0.0064	0.4	2:1165
COUR	Delta-E	-26845.8756	0.0028	0.0056	0.5	
	Delta-U	-113.2524	-0.0176	0.0378	0.5	
	Length	35085.5798				
(V83 RTK 01-JUN-2024 15:11:14.0 9763-001 rtk.asc)						
WD1J	Delta-N	-18790.3002	-0.0007	0.0258	0.0	2:416
03BG	Delta-E	16184.7288	0.0036	0.0212	0.2	
	Delta-U	-69.9614	0.0172	0.0317	0.5	
	Length	24799.7122				
(V58 RTK 30-MAY-2024 15:33:09.0 9763-001 rtk.asc)						
WD1J	Delta-N	12972.2517	0.0044	0.0252	0.2	2:291
CODY	Delta-E	-626.1831	-0.0039	0.0202	0.2	
	Delta-U	-31.8053	0.0165	0.0333	0.5	
	Length	12987.3951				
(V67 RTK 30-MAY-2024 18:35:54.0 9763-001 rtk.asc)						
WD1J	Delta-N	18169.1126	0.0032	0.0226	0.1	2:336
SYCA	Delta-E	1367.0234	0.0032	0.0198	0.2	
	Delta-U	-49.2138	0.0163	0.0284	0.6	
	Length	18220.5331				

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(V148 RTK 10-JUN-2024 13:29:21.0 9763-001 rtk.asc)						
WD1J	Delta-N	-23934.6238	0.0130	0.0276	0.5	2:743
CALD	Delta-E	9670.2480	0.0017	0.0234	0.1	
	Delta-U	-78.8787	-0.0107	0.0309	0.3	
	Length	25814.4559				
(V146 RTK 08-JUN-2024 23:10:10.0 9763-001 rtk.asc)						
WD1J	Delta-N	5653.5832	0.0155	0.0148	1.1	2:733
FORD	Delta-E	3277.4283	-0.0044	0.0127	0.3	
	Delta-U	-17.1999	-0.0049	0.0197	0.2	
	Length	6534.8936				
(V166 RTK 11-JUN-2024 19:24:28.0 9763-001 rtk.asc)						
WD1J	Delta-N	14151.4217	-0.0061	0.0246	0.2	2:833
VINC	Delta-E	-18754.8052	-0.0018	0.0173	0.1	
	Delta-U	-26.1263	0.0153	0.0248	0.6	
	Length	23494.8109				
(V171 RTK 12-JUN-2024 21:46:47.0 9763-001 rtk.asc)						
WD1J	Delta-N	440.0955	-0.0150	0.0114	1.3	2:858
LIBR	Delta-E	-604.9253	-0.0005	0.0078	0.1	
	Delta-U	-11.7628	0.0066	0.0091	0.7	
	Length	748.1691				
(V494 PostProcessed 19-SEP-2024 15:50:30.0 20240919.asc)						
GAF2	Delta-N	7360.8830	0.0142	0.0100	1.4	2:1279
P268	Delta-E	-5587.1916	0.0003	0.0081	0.0	
	Delta-U	0.1427	-0.0076	0.0226	0.3	
	Length	9241.1746				
(V201 RTK 17-JUN-2024 19:03:58.0 9763-001 rtk.asc)						
WD1J	Delta-N	14221.6798	0.0011	0.0266	0.0	2:1008
BROO	Delta-E	-35848.4021	0.0158	0.0206	0.8	
	Delta-U	-46.9236	-0.0009	0.0291	0.0	
	Length	38566.3884				
(V136 RTK 07-JUN-2024 21:26:29.0 9763-001 rtk.asc)						
WD1J	Delta-N	19174.1075	0.0014	0.0274	0.1	2:683
1075	Delta-E	-14400.7198	-0.0157	0.0221	0.7	
	Delta-U	-61.2817	0.0018	0.0272	0.1	
	Length	23979.8016				
(V77 RTK 31-MAY-2024 20:57:39.0 9763-001 rtk.asc)						
WD1J	Delta-N	-15664.0012	-0.0148	0.0226	0.7	2:386
B849	Delta-E	-17731.6993	-0.0056	0.0155	0.4	
	Delta-U	-36.0605	-0.0004	0.0245	0.0	
	Length	23659.5730				
(V230 PostProcessed 23-MAY-2024 15:08:42.0 9763-001 rtk.asc)						
WD1J	Delta-N	-369.4715	-0.0044	0.0039	1.1	2:1155
WOOD	Delta-E	-9120.9242	-0.0044	0.0031	1.4	
	Delta-U	1.5627	0.0142	0.0188	0.8	
	Length	9128.4045				
(V157 RTK 11-JUN-2024 13:12:11.0 9763-001 rtk.asc)						
WD1J	Delta-N	4091.4835	0.0031	0.0260	0.1	2:788

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BRID	Delta-E	-24332.0972	-0.0148	0.0226	0.7	
	Delta-U	-14.7632	-0.0028	0.0277	0.1	
	Length	24673.6987				
(V202 RTK 17-JUN-2024 19:09:36.0 9763-001 rtk.asc)						
WD1J	Delta-N	14221.6798	-0.0034	0.0273	0.1	2:1013
BROO	Delta-E	-35848.4021	0.0115	0.0211	0.5	
	Delta-U	-46.9236	-0.0091	0.0298	0.3	
	Length	38566.3884				
(V209 PostProcessed 25-MAY-2024 14:59:42.0 9763-001 rtk.asc)						
WD1J	Delta-N	-35560.1837	0.0012	0.0024	0.5	2:1050
VV1I	Delta-E	-19458.5637	0.0005	0.0020	0.3	
	Delta-U	-95.9527	0.0149	0.0126	1.2	
	Length	40536.0528				
(V133 RTK 07-JUN-2024 20:30:08.0 9763-001 rtk.asc)						
WD1J	Delta-N	11591.3720	-0.0003	0.0202	0.0	2:668
ZAMX	Delta-E	-3899.5439	-0.0021	0.0145	0.1	
	Delta-U	-30.1454	0.0148	0.0221	0.7	
	Length	12229.7692				
(V111 RTK 05-JUN-2024 21:12:25.0 9763-001 rtk.asc)						
WD1J	Delta-N	-9845.0702	0.0039	0.0246	0.2	2:558
1069	Delta-E	-17773.8530	-0.0065	0.0192	0.3	
	Delta-U	-9.4190	0.0128	0.0282	0.5	
	Length	20318.3501				
(V125 RTK 06-JUN-2024 19:55:32.0 9763-001 rtk.asc)						
WD1J	Delta-N	-23934.6238	0.0013	0.0106	0.1	2:628
CALD	Delta-E	9670.2480	0.0033	0.0082	0.4	
	Delta-U	-78.8787	0.0144	0.0131	1.1	
	Length	25814.4559				
(V84 RTK 01-JUN-2024 15:28:00.0 9763-001 rtk.asc)						
WD1J	Delta-N	-12676.3277	0.0047	0.0253	0.2	2:421
PALA	Delta-E	19938.9444	0.0138	0.0210	0.7	
	Delta-U	-62.2108	-0.0024	0.0344	0.1	
	Length	23627.4133				
(V7 RTK 23-MAY-2024 21:02:52.0 9763-001 rtk.asc)						
WD1J	Delta-N	-10002.9660	-0.0122	0.0188	0.6	2:36
PLAI	Delta-E	-3111.2728	-0.0005	0.0138	0.0	
	Delta-U	-20.4799	0.0081	0.0195	0.4	
	Length	10475.6750				
(V236 PostProcessed 03-JUN-2024 17:22:12.0 9763-001 rtk.asc)						
VV1I	Delta-N	-1489.9963	-0.0007	0.0059	0.1	2:1185
COUR	Delta-E	37505.9435	-0.0069	0.0051	1.3	
	Delta-U	-167.4464	0.0128	0.0347	0.4	
	Length	37535.9018				
(V117 RTK 06-JUN-2024 13:46:39.0 9763-001 rtk.asc)						
WD1J	Delta-N	-9845.0702	0.0009	0.0284	0.0	2:588
1069	Delta-E	-17773.8530	0.0083	0.0214	0.4	
	Delta-U	-9.4190	-0.0117	0.0289	0.4	
	Length	20318.3501				

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(V131 RTK 07-JUN-2024 17:16:47.0 9763-001 rtk.asc)						
WD1J	Delta-N	6889.0229	-0.0062	0.0176	0.4	2:658
169A	Delta-E	-16247.9003	0.0086	0.0169	0.5	
	Delta-U	-3.1849	-0.0097	0.0204	0.5	
	Length	17648.0285				
(V138 RTK 07-JUN-2024 22:01:12.0 9763-001 rtk.asc)						
WD1J	Delta-N	22179.4973	0.0071	0.0337	0.2	2:693
HERS	Delta-E	-12749.0469	-0.0099	0.0238	0.4	
	Delta-U	-68.4209	0.0075	0.0279	0.3	
	Length	25582.6695				
(V212 PostProcessed 31-MAY-2024 16:59:42.0 9763-001 rtk.asc)						
WD1J	Delta-N	-35560.1837	-0.0049	0.0034	1.4	2:1065
VV1I	Delta-E	-19458.5637	-0.0017	0.0027	0.6	
	Delta-U	-95.9527	0.0130	0.0169	0.8	
	Length	40536.0528				
(V17 RTK 25-MAY-2024 17:54:48.0 9763-001 rtk.asc)						
WD1J	Delta-N	-1271.6081	0.0136	0.0173	0.8	2:86
WAPT	Delta-E	-9072.3692	0.0003	0.0163	0.0	
	Delta-U	3.4735	0.0030	0.0159	0.2	
	Length	9161.0525				
(V26 RTK 27-MAY-2024 15:28:12.0 9763-001 rtk.asc)						
WI1H	Delta-N	-28602.0464	0.0027	0.0265	0.1	2:131
RUMS	Delta-E	-8966.4384	0.0090	0.0223	0.4	
	Delta-U	48.6795	-0.0101	0.0340	0.3	
	Length	29974.5967				
(V24 RTK 27-MAY-2024 14:35:40.0 9763-001 rtk.asc)						
WD1J	Delta-N	-1271.6081	-0.0137	0.0209	0.7	2:121
WAPT	Delta-E	-9072.3692	-0.0006	0.0145	0.0	
	Delta-U	3.4735	0.0006	0.0218	0.0	
	Length	9161.0525				
(V50 RTK 28-MAY-2024 18:08:21.0 9763-001 rtk.asc)						
WD1J	Delta-N	-6296.2295	-0.0028	0.0162	0.2	2:251
CONA	Delta-E	10708.2578	-0.0083	0.0157	0.5	
	Delta-U	-35.7894	-0.0106	0.0204	0.5	
	Length	12422.1807				
(V179 RTK 13-JUN-2024 18:05:57.0 9763-001 rtk.asc)						
WD1J	Delta-N	19174.1075	-0.0031	0.0219	0.1	2:898
1075	Delta-E	-14400.7198	-0.0119	0.0235	0.5	
	Delta-U	-61.2817	-0.0054	0.0332	0.2	
	Length	23979.8016				
(V52 RTK 30-MAY-2024 13:43:24.0 9763-001 rtk.asc)						
WD1J	Delta-N	-10002.9660	-0.0067	0.0162	0.4	2:261
PLAI	Delta-E	-3111.2728	-0.0037	0.0159	0.2	
	Delta-U	-20.4799	0.0110	0.0177	0.6	
	Length	10475.6750				
(V14 RTK 25-MAY-2024 16:53:40.0 9763-001 rtk.asc)						
WD1J	Delta-N	-11821.4283	0.0001	0.0191	0.0	2:71

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YAPT	Delta-E	-7621.9563	0.0127	0.0198	0.6	
	Delta-U	-17.1284	0.0026	0.0232	0.1	
	Length	14065.5849				
(V25 RTK 27-MAY-2024 15:23:47.0 9763-001 rtk.asc)						
WI1H	Delta-N	-28602.0464	0.0027	0.0339	0.1	2:126
RUMS	Delta-E	-8966.4384	0.0115	0.0280	0.4	
	Delta-U	48.6795	-0.0050	0.0417	0.1	
	Length	29974.5967				
(V118 RTK 06-JUN-2024 14:04:20.0 9763-001 rtk.asc)						
WD1J	Delta-N	-3964.3788	0.0068	0.0284	0.2	2:593
COTT	Delta-E	-23339.5333	0.0070	0.0239	0.3	
	Delta-U	16.2103	-0.0082	0.0331	0.2	
	Length	23673.8332				
(V161 RTK 11-JUN-2024 14:31:44.0 9763-001 rtk.asc)						
WD1J	Delta-N	12808.0139	-0.0019	0.0242	0.1	2:808
T849	Delta-E	-12869.8435	0.0055	0.0194	0.3	
	Delta-U	-20.8606	-0.0113	0.0311	0.4	
	Length	18157.0517				
(V172 RTK 12-JUN-2024 21:52:18.0 9763-001 rtk.asc)						
WD1J	Delta-N	440.0955	-0.0105	0.0111	0.9	2:863
LIBR	Delta-E	-604.9253	-0.0049	0.0074	0.7	
	Delta-U	-11.7628	-0.0042	0.0086	0.5	
	Length	748.1691				
(V197 RTK 17-JUN-2024 17:59:22.0 9763-001 rtk.asc)						
WD1J	Delta-N	19174.1075	-0.0040	0.0228	0.2	2:988
1075	Delta-E	-14400.7198	0.0098	0.0204	0.5	
	Delta-U	-61.2817	0.0064	0.0328	0.2	
	Length	23979.8016				
(V181 RTK 13-JUN-2024 22:46:37.0 9763-001 rtk.asc)						
WD1J	Delta-N	11826.3363	0.0089	0.0148	0.6	2:908
GW17	Delta-E	-24017.0388	0.0073	0.0123	0.6	
	Delta-U	-2.5341	0.0042	0.0202	0.2	
	Length	26770.8869				
(V63 RTK 30-MAY-2024 17:18:21.0 9763-001 rtk.asc)						
WD1J	Delta-N	22179.4973	0.0089	0.0292	0.3	2:316
HERS	Delta-E	-12749.0469	0.0080	0.0258	0.3	
	Delta-U	-68.4209	-0.0023	0.0243	0.1	
	Length	25582.6695				
(V51 RTK 28-MAY-2024 18:26:39.0 9763-001 rtk.asc)						
WD1J	Delta-N	-3186.9024	-0.0039	0.0130	0.3	2:256
EX11	Delta-E	8706.7652	-0.0039	0.0122	0.3	
	Delta-U	-30.5484	-0.0107	0.0174	0.6	
	Length	9271.7334				
(V227 PostProcessed 25-MAY-2024 15:21:42.0 9763-001 rtk.asc)						
WD1J	Delta-N	-31990.5420	0.0024	0.0051	0.5	2:1140
ANDR	Delta-E	11269.4384	0.0010	0.0044	0.2	
	Delta-U	-118.8547	0.0117	0.0295	0.4	
	Length	33917.6819				

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(V112 RTK 05-JUN-2024 21:29:25.0 9763-001 rtk.asc)

WD1J	Delta-N	1264.5289	0.0007	0.0231	0.0	2:563
WILX	Delta-E	-17293.3489	0.0043	0.0189	0.2	
	Delta-U	-8.0863	0.0111	0.0250	0.4	
	Length	17339.5218				

(V56 RTK 30-MAY-2024 15:06:03.0 9763-001 rtk.asc)

WD1J	Delta-N	13084.1661	-0.0039	0.0171	0.2	2:281
F859	Delta-E	3548.8852	0.0010	0.0152	0.1	
	Delta-U	-31.4545	0.0110	0.0238	0.5	
	Length	13556.9532				

(V490 PostProcessed 19-SEP-2024 14:56:00.0 20240919.asc)

UCD1	Delta-N	-21742.3669	-0.0039	0.0114	0.3	2:1259
COUR	Delta-E	16618.6037	0.0043	0.0071	0.6	
	Delta-U	-82.3033	-0.0101	0.0394	0.3	
	Length	27366.3166				

(V8 RTK 23-MAY-2024 21:27:08.0 9763-001 rtk.asc)

WD1J	Delta-N	-1291.7005	0.0005	0.0100	0.1	2:41
CHUR	Delta-E	-3045.8493	0.0065	0.0074	0.9	
	Delta-U	-8.2523	0.0095	0.0104	0.9	
	Length	3308.4371				

(V234 PostProcessed 28-MAY-2024 13:59:42.0 9763-001 rtk.asc)

VV1I	Delta-N	88954.7570	0.0021	0.0043	0.5	2:1175
WI1H	Delta-E	-13787.5182	0.0026	0.0027	1.0	
	Delta-U	-668.7932	-0.0109	0.0156	0.7	
	Length	90019.3964				

(V196 RTK 17-JUN-2024 17:53:54.0 9763-001 rtk.asc)

WD1J	Delta-N	19174.1075	-0.0044	0.0212	0.2	2:983
1075	Delta-E	-14400.7198	0.0090	0.0191	0.5	
	Delta-U	-61.2817	-0.0055	0.0285	0.2	
	Length	23979.8016				

(V178 RTK 13-JUN-2024 17:52:07.0 9763-001 rtk.asc)

WD1J	Delta-N	19174.1075	0.0027	0.0407	0.1	2:893
1075	Delta-E	-14400.7198	-0.0043	0.0842	0.1	
	Delta-U	-61.2817	0.0101	0.1505	0.1	
	Length	23979.8016				

(V36 RTK 27-MAY-2024 20:51:46.0 9763-001 rtk.asc)

WD1J	Delta-N	-12300.2750	0.0106	0.0274	0.4	2:181
CAST	Delta-E	10779.8093	-0.0004	0.0195	0.0	
	Delta-U	-47.3009	0.0039	0.0250	0.2	
	Length	16355.5278				

(V147 RTK 10-JUN-2024 13:11:07.0 9763-001 rtk.asc)

WD1J	Delta-N	-19980.5326	0.0079	0.0251	0.3	2:738
WILS	Delta-E	6580.6390	0.0063	0.0219	0.3	
	Delta-U	-57.0969	0.0047	0.0270	0.2	
	Length	21036.3912				

(V208 PostProcessed 23-MAY-2024 13:59:42.0 9763-001 rtk.asc)

WD1J	Delta-N	-35560.1837	-0.0006	0.0026	0.2	2:1045
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VV1I	Delta-E	-19458.5637	-0.0029	0.0022	1.3	
	Delta-U	-95.9527	0.0106	0.0132	0.8	
	Length	40536.0528				
(V9 RTK 23-MAY-2024 21:45:29.0 9763-001 rtk.asc)						
WD1J	Delta-N	-1271.6081	0.0096	0.0204	0.5	2:46
WAPT	Delta-E	-9072.3692	0.0043	0.0138	0.3	
	Delta-U	3.4735	0.0030	0.0178	0.2	
	Length	9161.0525				
(V70 RTK 30-MAY-2024 21:26:37.0 9763-001 rtk.asc)						
WD1J	Delta-N	-6296.2295	-0.0009	0.0184	0.1	2:351
CONA	Delta-E	10708.2578	0.0063	0.0147	0.4	
	Delta-U	-35.7894	0.0087	0.0200	0.4	
	Length	12422.1807				
(V229 PostProcessed 23-MAY-2024 16:15:42.0 9763-001 rtk.asc)						
WD1J	Delta-N	-15739.7496	-0.0031	0.0056	0.6	2:1150
DAVE	Delta-E	-1722.1356	0.0001	0.0052	0.0	
	Delta-U	-32.3069	0.0101	0.0306	0.3	
	Length	15833.7144				
(V71 RTK 30-MAY-2024 21:40:12.0 9763-001 rtk.asc)						
WD1J	Delta-N	-3186.9024	0.0021	0.0166	0.1	2:356
EX11	Delta-E	8706.7652	0.0035	0.0133	0.3	
	Delta-U	-30.5484	0.0097	0.0172	0.6	
	Length	9271.7334				
(V169 RTK 12-JUN-2024 13:50:23.0 9763-001 rtk.asc)						
WD1J	Delta-N	22179.4973	-0.0072	0.0304	0.2	2:848
HERS	Delta-E	-12749.0469	0.0019	0.0223	0.1	
	Delta-U	-68.4209	-0.0068	0.0335	0.2	
	Length	25582.6695				
(V491 PostProcessed 19-SEP-2024 16:39:30.0 20240919.asc)						
UCD1	Delta-N	-10592.4641	-0.0055	0.0147	0.4	2:1264
T462	Delta-E	21501.3508	-0.0060	0.0128	0.5	
	Delta-U	-66.9933	0.0054	0.0759	0.1	
	Length	23968.9981				
(V211 PostProcessed 28-MAY-2024 13:59:42.0 9763-001 rtk.asc)						
WD1J	Delta-N	-35560.1837	-0.0006	0.0030	0.2	2:1060
VV1I	Delta-E	-19458.5637	-0.0010	0.0027	0.4	
	Delta-U	-95.9527	0.0096	0.0155	0.6	
	Length	40536.0528				
(V16 RTK 25-MAY-2024 17:34:28.0 9763-001 rtk.asc)						
WD1J	Delta-N	-4430.6328	0.0092	0.0225	0.4	2:81
ABUT	Delta-E	-16050.5507	-0.0007	0.0215	0.0	
	Delta-U	-0.6040	0.0025	0.0201	0.1	
	Length	16650.8464				
(V173 RTK 12-JUN-2024 21:57:33.0 9763-001 rtk.asc)						
WD1J	Delta-N	440.0955	-0.0089	0.0104	0.9	2:868
LIBR	Delta-E	-604.9253	-0.0031	0.0067	0.5	
	Delta-U	-11.7628	0.0008	0.0080	0.1	
	Length	748.1691				

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(V182 RTK 13-JUN-2024 23:32:56.0 9763-001 rtk.asc)						
WD1J	Delta-N	9814.3048	-0.0050	0.0117	0.4	2:913
DUFO	Delta-E	-6663.2622	0.0058	0.0105	0.6	
	Delta-U	-22.3040	-0.0054	0.0134	0.4	
	Length	11862.5520				
(V145 RTK 08-JUN-2024 22:55:12.0 9763-001 rtk.asc)						
WD1J	Delta-N	13084.1661	0.0090	0.0228	0.4	2:728
F859	Delta-E	3548.8852	0.0005	0.0185	0.0	
	Delta-U	-31.4545	-0.0007	0.0266	0.0	
	Length	13556.9532				
(V137 RTK 07-JUN-2024 21:47:14.0 9763-001 rtk.asc)						
WD1J	Delta-N	27797.8839	0.0006	0.0331	0.0	2:688
DRAI	Delta-E	-12751.9653	0.0088	0.0252	0.3	
	Delta-U	-91.5622	0.0003	0.0298	0.0	
	Length	30583.3836				
(V76 RTK 31-MAY-2024 20:31:39.0 9763-001 rtk.asc)						
WD1J	Delta-N	-4430.6328	-0.0081	0.0212	0.4	2:381
ABUT	Delta-E	-16050.5507	0.0015	0.0158	0.1	
	Delta-U	-0.6040	-0.0027	0.0223	0.1	
	Length	16650.8464				
(V222 PostProcessed 12-JUN-2024 12:59:42.0 9763-001 rtk.asc)						
WD1J	Delta-N	53430.1358	-0.0043	0.0031	1.4	2:1115
WI1H	Delta-E	-33029.4722	-0.0016	0.0023	0.7	
	Delta-U	-308.5502	-0.0072	0.0120	0.6	
	Length	62815.7675				
(V226 PostProcessed 14-JUN-2024 17:59:42.0 9763-001 rtk.asc)						
WD1J	Delta-N	53430.1358	0.0041	0.0068	0.6	2:1135
WI1H	Delta-E	-33029.4722	0.0033	0.0049	0.7	
	Delta-U	-308.5502	0.0067	0.0275	0.2	
	Length	62815.7675				
(V110 RTK 05-JUN-2024 20:45:14.0 9763-001 rtk.asc)						
WD1J	Delta-N	-3964.3788	-0.0032	0.0270	0.1	2:553
COTT	Delta-E	-23339.5333	-0.0050	0.0196	0.3	
	Delta-U	16.2103	0.0057	0.0308	0.2	
	Length	23673.8332				
(V79 RTK 31-MAY-2024 21:53:55.0 9763-001 rtk.asc)						
WD1J	Delta-N	-14544.1179	-0.0064	0.0252	0.3	2:396
RUSS	Delta-E	-9463.0061	0.0016	0.0220	0.1	
	Delta-U	-26.1810	0.0049	0.0310	0.2	
	Length	17351.6724				
(V134 RTK 07-JUN-2024 20:45:05.0 9763-001 rtk.asc)						
WD1J	Delta-N	9814.3048	-0.0038	0.0193	0.2	2:673
DUFO	Delta-E	-6663.2622	-0.0038	0.0146	0.3	
	Delta-U	-22.3040	-0.0059	0.0215	0.3	
	Length	11862.5520				
(V484 PostProcessed 19-SEP-2024 14:00:00.0 20240919.asc)						
WD1J	Delta-N	-2137.3827	-0.0020	0.0039	0.5	2:1229

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SACR	Delta-E	35975.7214	0.0009	0.0032	0.3	
	Delta-U	-94.6808	-0.0070	0.0197	0.4	
	Length	36039.2828				
(V235 PostProcessed 25-MAY-2024 15:21:42.0 9763-001 rtk.asc)						
VV1I	Delta-N	3643.5317	-0.0006	0.0035	0.2	2:1180
ANDR	Delta-E	30719.0337	0.0017	0.0031	0.6	
	Delta-U	-136.4838	-0.0071	0.0204	0.3	
	Length	30934.6566				
(V239 PostProcessed 29-MAY-2024 15:55:42.0 9763-001 rtk.asc)						
VV1I	Delta-N	54852.2504	0.0010	0.0087	0.1	2:1200
BIRD	Delta-E	-4653.6503	0.0018	0.0050	0.4	
	Delta-U	-208.2000	0.0064	0.0321	0.2	
	Length	55049.6974				
(V238 PostProcessed 23-MAY-2024 15:08:42.0 9763-001 rtk.asc)						
VV1I	Delta-N	35215.5282	-0.0015	0.0054	0.3	2:1195
WOOD	Delta-E	10252.4147	0.0057	0.0044	1.3	
	Delta-U	-130.7369	0.0030	0.0276	0.1	
	Length	36677.8206				
(V38 RTK 28-MAY-2024 13:19:08.0 9763-001 rtk.asc)						
WD1J	Delta-N	-11821.4283	0.0039	0.0208	0.2	2:191
YAPT	Delta-E	-7621.9563	0.0047	0.0175	0.3	
	Delta-U	-17.1284	0.0023	0.0215	0.1	
	Length	14065.5849				
(V228 PostProcessed 03-JUN-2024 17:22:12.0 9763-001 rtk.asc)						
WD1J	Delta-N	-37140.2800	0.0036	0.0067	0.5	2:1145
COUR	Delta-E	18044.0146	-0.0023	0.0058	0.4	
	Delta-U	-157.9692	-0.0050	0.0390	0.1	
	Length	41291.7887				
(V124 RTK 06-JUN-2024 19:21:12.0 9763-001 rtk.asc)						
WD1J	Delta-N	-19980.5326	0.0039	0.0163	0.2	2:623
WILS	Delta-E	6580.6390	0.0025	0.0137	0.2	
	Delta-U	-57.0969	-0.0046	0.0187	0.2	
	Length	21036.3912				
(V486 PostProcessed 19-SEP-2024 16:39:30.0 20240919.asc)						
SACR	Delta-N	-23793.1569	0.0036	0.0154	0.2	2:1239
T462	Delta-E	-13157.9872	-0.0043	0.0143	0.3	
	Delta-U	-87.5639	0.0016	0.0856	0.0	
	Length	27189.2370				
(V204 PostProcessed 17-JUN-2024 12:59:42.0 9763-001 rtk.asc)						
WD1J	Delta-N	-59579.1225	0.0011	0.0048	0.2	2:1025
LD1K	Delta-E	45014.6254	0.0002	0.0040	0.0	
	Delta-U	-445.0445	0.0054	0.0200	0.3	
	Length	74673.8669				
(V15 RTK 25-MAY-2024 17:09:32.0 9763-001 rtk.asc)						
WD1J	Delta-N	-6405.5835	0.0023	0.0164	0.1	2:76
CANA	Delta-E	-7911.8128	0.0048	0.0167	0.3	
	Delta-U	-10.2396	0.0002	0.0175	0.0	
	Length	10179.8029				

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(V240 PostProcessed 23-MAY-2024 16:15:42.0 9763-001 rtk.asc)							
WOOD	Delta-N	-15361.8131	-0.0008	0.0042	0.2	2:1205	
DAVE	Delta-E	7416.2974	-0.0037	0.0038	1.0		
	Delta-U	-43.5433	-0.0034	0.0221	0.2		
	Length	17058.3899					
(V489 PostProcessed 19-SEP-2024 14:00:00.0 20240919.asc)							
WD1J	Delta-N	-15401.1317	-0.0005	0.0039	0.1	2:1254	
UCD1	Delta-E	1421.5752	-0.0000	0.0032	0.0		
	Delta-U	-19.3251	0.0049	0.0186	0.3		
	Length	15466.6127					
(V13 RTK 25-MAY-2024 16:31:40.0 9763-001 rtk.asc)							
WD1J	Delta-N	-14544.1179	0.0036	0.0220	0.2	2:66	
RUSS	Delta-E	-9463.0061	-0.0018	0.0212	0.1		
	Delta-U	-26.1810	-0.0027	0.0300	0.1		
	Length	17351.6724					
(V221 PostProcessed 10-JUN-2024 12:59:42.0 9763-001 rtk.asc)							
WD1J	Delta-N	53430.1358	0.0006	0.0028	0.2	2:1110	
WI1H	Delta-E	-33029.4722	-0.0008	0.0021	0.4		
	Delta-U	-308.5502	0.0047	0.0107	0.4		
	Length	62815.7675					
(V210 PostProcessed 29-MAY-2024 13:59:42.0 9763-001 rtk.asc)							
WD1J	Delta-N	-35560.1837	-0.0023	0.0025	0.9	2:1055	
VV1I	Delta-E	-19458.5637	-0.0015	0.0021	0.7		
	Delta-U	-95.9527	0.0038	0.0125	0.3		
	Length	40536.0528					
(V160 RTK 11-JUN-2024 14:12:54.0 9763-001 rtk.asc)							
WD1J	Delta-N	12972.2517	0.0000	0.0216	0.0	2:803	
CODY	Delta-E	-626.1831	-0.0040	0.0171	0.2		
	Delta-U	-31.8053	-0.0023	0.0242	0.1		
	Length	12987.3951					
(V483 PostProcessed 19-SEP-2024 14:00:00.0 20240919.asc)							
WD1J	Delta-N	-22355.7615	-0.0001	0.0030	0.0	2:1224	
P268	Delta-E	10569.8359	0.0002	0.0025	0.1		
	Delta-U	-71.9706	-0.0046	0.0151	0.3		
	Length	24728.6612					
(V219 PostProcessed 29-MAY-2024 15:55:42.0 9763-001 rtk.asc)							
WD1J	Delta-N	19303.5107	-0.0004	0.0045	0.1	2:1100	
BIRD	Delta-E	-23979.2970	-0.0024	0.0039	0.6		
	Delta-U	-11.1797	-0.0032	0.0256	0.1		
	Length	30783.6374					
(V75 RTK 31-MAY-2024 20:12:18.0 9763-001 rtk.asc)							
WD1J	Delta-N	-6405.5835	-0.0023	0.0179	0.1	2:376	
CANA	Delta-E	-7911.8128	-0.0031	0.0138	0.2		
	Delta-U	-10.2396	0.0009	0.0191	0.0		
	Length	10179.8029					
(V223 PostProcessed 07-JUN-2024 13:59:42.0 9763-001 rtk.asc)							
WD1J	Delta-N	53430.1358	-0.0004	0.0036	0.1	2:1120	

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WI1H	Delta-E	-33029.4722	-0.0023	0.0027	0.9	
	Delta-U	-308.5502	0.0030	0.0143	0.2	
	Length	62815.7675				
(V206 PostProcessed 10-JUN-2024 12:59:42.0 9763-001 rtk.asc)						
WD1J	Delta-N	-35560.1837	-0.0008	0.0020	0.4	2:1035
VV1I	Delta-E	-19458.5637	0.0005	0.0017	0.3	
	Delta-U	-95.9527	0.0033	0.0103	0.3	
	Length	40536.0528				
(V203 PostProcessed 03-JUN-2024 12:59:42.0 9763-001 rtk.asc)						
WD1J	Delta-N	-59579.1225	0.0003	0.0039	0.1	2:1020
LD1K	Delta-E	45014.6254	-0.0016	0.0031	0.5	
	Delta-U	-445.0445	0.0030	0.0155	0.2	
	Length	74673.8669				
(V225 PostProcessed 28-MAY-2024 12:59:42.0 9763-001 rtk.asc)						
WD1J	Delta-N	53430.1358	0.0029	0.0041	0.7	2:1130
WI1H	Delta-E	-33029.4722	0.0014	0.0032	0.4	
	Delta-U	-308.5502	0.0003	0.0159	0.0	
	Length	62815.7675				
(V159 RTK 11-JUN-2024 13:57:57.0 9763-001 rtk.asc)						
WD1J	Delta-N	11591.3720	0.0027	0.0220	0.1	2:798
ZAMX	Delta-E	-3899.5439	-0.0007	0.0171	0.0	
	Delta-U	-30.1454	0.0015	0.0242	0.1	
	Length	12229.7692				
(V57 RTK 30-MAY-2024 15:19:46.0 9763-001 rtk.asc)						
WD1J	Delta-N	13084.1661	-0.0004	0.0221	0.0	2:286
F859	Delta-E	3548.8852	0.0019	0.0181	0.1	
	Delta-U	-31.4545	0.0023	0.0276	0.1	
	Length	13556.9532				
(V485 PostProcessed 19-SEP-2024 02:00:30.0 20240919.asc)						
P268	Delta-N	20184.7416	0.0011	0.0025	0.4	2:1234
SACR	Delta-E	25432.5758	-0.0002	0.0019	0.1	
	Delta-U	-51.7282	0.0024	0.0122	0.2	
	Length	32469.0989				
(V237 PostProcessed 23-MAY-2024 16:15:42.0 9763-001 rtk.asc)						
VV1I	Delta-N	19863.1844	-0.0014	0.0047	0.3	2:1190
DAVE	Delta-E	17688.3635	0.0019	0.0044	0.4	
	Delta-U	-101.2130	-0.0011	0.0273	0.0	
	Length	26597.6416				
(V27 RTK 27-MAY-2024 15:44:43.0 9763-001 rtk.asc)						
WI1H	Delta-N	-33287.5969	0.0016	0.0159	0.1	2:136
GUIN	Delta-E	-5370.1102	-0.0008	0.0138	0.1	
	Delta-U	-0.6895	-0.0014	0.0248	0.1	
	Length	33717.9802				
(V224 PostProcessed 27-MAY-2024 13:59:42.0 9763-001 rtk.asc)						
WD1J	Delta-N	53430.1358	-0.0007	0.0036	0.2	2:1125
WI1H	Delta-E	-33029.4722	0.0007	0.0028	0.3	
	Delta-U	-308.5502	0.0015	0.0140	0.1	
	Length	62815.7675				

Appendix H – Star*Net Adjustment Report

(V233 PostProcessed 10-JUN-2024 12:59:42.0 9763-001 rtk.asc)

VV1I	Delta-N	88954.7570	0.0011	0.0026	0.4	2:1170
WI1H	Delta-E	-13787.5182	-0.0007	0.0016	0.4	
	Delta-U	-668.7932	-0.0009	0.0095	0.1	
	Length	90019.3964				

GPS Vector Residual Summary (Meters) (Sorted by Up Residual Length)

From	To	N	E	Up	2D	3D	Length	VectID	File:Line
LD1K	COUR	0.002	-0.006	0.067	0.006	0.067	35086	194	2:973
WD1J	RIVE	-0.045	-0.027	0.064	0.052	0.082	17271	106	2:533
WD1J	PLEA	-0.004	0.001	0.060	0.004	0.060	30357	216	2:1085
UCD1	GAF2	-0.001	-0.001	0.056	0.002	0.056	20547	492	2:1269
VV1I	WILS	-0.075	-0.044	0.052	0.087	0.101	30344	5	2:26
WD1J	DAVE	-0.013	0.005	0.048	0.014	0.050	15834	48	2:241
WD1J	JIMX	0.005	0.002	0.047	0.005	0.047	28821	126	2:633
WD1J	BIRD	0.003	0.012	0.045	0.012	0.046	30784	220	2:1105
LD1K	PALA	-0.051	-0.041	0.044	0.065	0.078	53187	105	2:528
WD1J	FRE3	-0.011	0.020	0.043	0.023	0.049	15136	163	2:818
WI1H	RUMS	-0.002	0.003	0.042	0.004	0.042	29975	149	2:748
LD1K	T462	-0.022	-0.008	0.041	0.023	0.047	40204	103	2:516
WD1J	SM15	-0.005	0.021	0.039	0.022	0.044	13239	164	2:823
WI1H	GW32	-0.026	-0.009	0.037	0.027	0.046	46229	193	2:968
WI1H	BROO	-0.009	-0.036	0.037	0.037	0.053	39311	189	2:948
WD1J	CVAP	-0.000	0.003	0.036	0.003	0.036	19372	127	2:638
WI1H	GUIN	-0.009	0.002	0.036	0.010	0.037	33718	187	2:938
WI1H	GUIN	-0.007	-0.002	0.035	0.008	0.036	33718	188	2:943
WD1J	CAST	-0.034	-0.002	0.035	0.034	0.049	16356	46	2:231
WD1J	CHUR	-0.025	-0.006	0.034	0.025	0.042	3308	53	2:266
WD1J	O3DG	0.033	0.022	0.034	0.039	0.052	3819	165	2:828
WD1J	ALH3	-0.040	0.003	0.033	0.040	0.052	13914	47	2:236
SACR	GAF2	0.003	-0.004	0.031	0.005	0.032	33944	487	2:1244
WD1J	GAF2	-0.001	-0.004	0.031	0.005	0.031	33822	481	2:1214
WD1J	DUFO	0.020	-0.009	0.031	0.022	0.038	11863	60	2:301
WD1J	KEAT	0.013	-0.010	0.030	0.016	0.034	11024	114	2:573
WI1H	BROO	-0.018	-0.040	0.029	0.044	0.053	39311	190	2:953
WD1J	RWF1	-0.038	0.003	0.028	0.038	0.047	9964	44	2:221
WD1J	BRID	-0.028	0.008	0.027	0.030	0.040	24674	167	2:838
WD1J	TYND	0.008	-0.002	0.026	0.008	0.027	22514	129	2:648
WD1J	LIBR	-0.019	0.001	0.025	0.019	0.032	748	42	2:211
WD1J	CVAP	0.002	0.003	0.025	0.003	0.025	19372	128	2:643
WI1H	RUMS	0.004	-0.000	0.025	0.004	0.025	29975	186	2:933
WD1J	CODY	-0.003	-0.003	0.024	0.004	0.025	12987	132	2:663
WD1J	1075	0.011	-0.019	0.024	0.022	0.033	23980	62	2:311
WD1J	TYND	0.008	0.028	0.023	0.029	0.037	22514	66	2:331
WD1J	COY2	-0.040	-0.004	0.023	0.040	0.046	11388	45	2:226
WD1J	LD1K	-0.000	0.003	0.023	0.003	0.023	74674	205	2:1030
WD1J	FORD	-0.011	0.001	0.022	0.011	0.025	6535	69	2:346
WD1J	FERR	-0.015	-0.005	0.022	0.016	0.027	11939	218	2:1095
LD1K	GAF2	-0.016	-0.013	0.022	0.021	0.030	41527	102	2:511
P268	T462	-0.010	0.001	0.022	0.010	0.024	12878	496	2:1289
WI1H	RUMS	0.001	-0.008	0.022	0.008	0.023	29975	185	2:928
WD1J	DAVE	-0.012	0.007	0.021	0.014	0.025	15834	3	2:16
LD1K	COUR	0.011	-0.012	0.019	0.016	0.025	35086	101	2:506
WD1J	O3DG	-0.021	0.002	0.018	0.021	0.028	3819	176	2:883

Appendix H – Star*Net Adjustment Report

VV1I	CALD	-0.053	-0.045	0.017	0.070	0.072	31363	4	2:21
WD1J	03BG	-0.001	0.004	0.017	0.004	0.018	24800	83	2:416
WI1H	DRAI	-0.006	-0.039	0.017	0.040	0.043	32684	33	2:166
WD1J	ZAMX	0.011	-0.007	0.017	0.013	0.021	12230	59	2:296
WD1J	FERR	-0.030	0.002	0.017	0.030	0.034	11939	109	2:548
WD1J	CODY	0.004	-0.004	0.017	0.006	0.018	12987	58	2:291
WD1J	ALH3	0.008	0.003	0.016	0.008	0.018	13914	37	2:186
WD1J	SYCA	0.003	0.003	0.016	0.004	0.017	18221	67	2:336
WI1H	BROO	-0.015	-0.041	0.016	0.044	0.047	39311	192	2:963
VV1I	ANDR	-0.012	-0.015	0.016	0.019	0.025	30935	88	2:441
WD1J	BROO	0.003	0.020	0.016	0.020	0.025	38566	199	2:998
WD1J	T849	-0.013	0.002	0.016	0.013	0.021	18157	135	2:678
WD1J	GW17	0.015	0.002	0.015	0.016	0.022	26771	168	2:843
WD1J	VINC	-0.006	-0.002	0.015	0.006	0.017	23495	166	2:833
WD1J	VV1I	0.001	0.001	0.015	0.001	0.015	40536	209	2:1050
WD1J	ZAMX	-0.000	-0.002	0.015	0.002	0.015	12230	133	2:668
WD1J	0308	-0.011	-0.001	0.015	0.011	0.018	5571	215	2:1080
WI1H	BROO	-0.017	-0.042	0.014	0.045	0.047	39311	191	2:958
WD1J	CALD	0.001	0.003	0.014	0.004	0.015	25814	125	2:628
WD1J	WOOD	-0.004	-0.004	0.014	0.006	0.015	9128	230	2:1155
LD1K	COUR	0.016	0.008	0.014	0.018	0.023	35086	95	2:476
WD1J	0308	0.051	0.011	0.013	0.052	0.053	5571	115	2:578
VV1I	PLEA	-0.027	-0.037	0.013	0.046	0.048	15809	78	2:391
WD1J	VV1I	-0.005	-0.002	0.013	0.005	0.014	40536	212	2:1065
VV1I	COUR	-0.001	-0.007	0.013	0.007	0.015	37536	236	2:1185
WD1J	1069	0.004	-0.006	0.013	0.008	0.015	20318	111	2:558
WD1J	0308	-0.021	0.002	0.012	0.021	0.024	5571	41	2:206
WD1J	ANDR	0.002	0.001	0.012	0.003	0.012	33918	227	2:1140
WD1J	169A	0.008	-0.014	0.011	0.016	0.020	17648	113	2:568
WD1J	WILX	0.001	0.004	0.011	0.004	0.012	17340	112	2:563
WD1J	F859	-0.004	0.001	0.011	0.004	0.012	13557	56	2:281
WD1J	PLAI	-0.007	-0.004	0.011	0.008	0.013	10476	52	2:261
WD1J	VV1I	-0.001	-0.003	0.011	0.003	0.011	40536	208	2:1045
WD1J	DAVE	-0.003	0.000	0.010	0.003	0.011	15834	229	2:1150
WD1J	1075	0.003	-0.004	0.010	0.005	0.011	23980	178	2:893
WD1J	EX11	0.002	0.004	0.010	0.004	0.011	9272	71	2:356
WD1J	VV1I	-0.001	-0.001	0.010	0.001	0.010	40536	211	2:1060
WD1J	CHUR	0.001	0.007	0.009	0.007	0.012	3308	8	2:41
WD1J	BROO	0.009	0.018	0.009	0.020	0.022	38566	198	2:993
WD1J	1031	-0.017	0.003	0.009	0.017	0.019	5058	175	2:878
WD1J	CONA	-0.001	0.006	0.009	0.006	0.011	12422	70	2:351
WD1J	PLAI	-0.012	-0.000	0.008	0.012	0.015	10476	7	2:36
WD1J	BROO	0.001	0.017	0.008	0.017	0.019	38566	200	2:1003
WD1J	HERS	0.007	-0.010	0.008	0.012	0.014	25583	138	2:693
WD1J	WI1H	0.004	0.003	0.007	0.005	0.008	62816	226	2:1135
WD1J	FRE3	-0.052	0.021	0.007	0.056	0.056	15136	183	2:918
WD1J	LIBR	-0.015	-0.001	0.007	0.015	0.016	748	171	2:858
WI1H	X200	-0.011	-0.019	0.006	0.022	0.023	31260	32	2:161
WD1J	1075	-0.004	0.010	0.006	0.011	0.012	23980	197	2:988
VV1I	BIRD	0.001	0.002	0.006	0.002	0.007	55050	239	2:1200
WD1J	LIBR	0.039	0.016	0.006	0.042	0.042	748	21	2:106
WD1J	COTT	-0.003	-0.005	0.006	0.006	0.008	23674	110	2:553
WD1J	LD1K	0.001	0.000	0.005	0.001	0.006	74674	204	2:1025
UCD1	T462	-0.006	-0.006	0.005	0.008	0.010	23969	491	2:1264
WD1J	T849	0.008	-0.029	0.005	0.030	0.030	18157	61	2:306
WD1J	RUSS	-0.006	0.002	0.005	0.007	0.008	17352	79	2:396
WD1J	UCD1	-0.001	-0.000	0.005	0.001	0.005	15467	489	2:1254

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WD1J	WI1H	0.001	-0.001	0.005	0.001	0.005	62816	221	2:1110
WD1J	WILS	0.008	0.006	0.005	0.010	0.011	21036	147	2:738
WD1J	GW17	0.009	0.007	0.004	0.011	0.012	26771	181	2:908
WD1J	CAST	0.011	-0.000	0.004	0.011	0.011	16356	36	2:181
WD1J	VV1I	-0.002	-0.002	0.004	0.003	0.005	40536	210	2:1055
WD1J	VV1I	-0.001	0.001	0.003	0.001	0.003	40536	206	2:1035
WD1J	WAPT	0.014	0.000	0.003	0.014	0.014	9161	17	2:86
WD1J	WAPT	0.010	0.004	0.003	0.011	0.011	9161	9	2:46
VV1I	WOOD	-0.001	0.006	0.003	0.006	0.007	36678	238	2:1195
WD1J	WI1H	-0.000	-0.002	0.003	0.002	0.004	62816	223	2:1120
WD1J	LD1K	0.000	-0.002	0.003	0.002	0.003	74674	203	2:1020
WD1J	YAPT	0.000	0.013	0.003	0.013	0.013	14066	14	2:71
WD1J	ABUT	0.009	-0.001	0.003	0.009	0.010	16651	16	2:81
P268	SACR	0.001	-0.000	0.002	0.001	0.003	32469	485	2:1234
WD1J	YAPT	0.004	0.005	0.002	0.006	0.007	14066	38	2:191
WD1J	F859	-0.000	0.002	0.002	0.002	0.003	13557	57	2:286
WI1H	X200	-0.018	-0.010	0.002	0.020	0.020	31260	152	2:763
WD1J	1075	0.001	-0.016	0.002	0.016	0.016	23980	136	2:683
WD1J	CVAP	0.002	0.022	0.002	0.022	0.022	19372	65	2:326
SACR	T462	0.004	-0.004	0.002	0.006	0.006	27189	486	2:1239
WD1J	ZAMX	0.003	-0.001	0.001	0.003	0.003	12230	159	2:798
WD1J	WI1H	-0.001	0.001	0.001	0.001	0.002	62816	224	2:1125
WD1J	1075	-0.009	0.017	0.001	0.019	0.019	23980	195	2:978
WD1J	169A	0.020	-0.009	0.001	0.021	0.022	17648	119	2:598
VV1I	ANDR	-0.009	-0.018	0.001	0.020	0.020	30935	89	2:446
WD1J	CANA	-0.002	-0.003	0.001	0.004	0.004	10180	75	2:376
WD1J	LIBR	-0.009	-0.003	0.001	0.009	0.009	748	173	2:868
WD1J	WAPT	-0.014	-0.001	0.001	0.014	0.014	9161	24	2:121
WD1J	GW17	-0.027	0.004	0.000	0.027	0.027	26771	217	2:1090
WD1J	WI1H	0.003	0.001	0.000	0.003	0.003	62816	225	2:1130
WD1J	DRAI	0.001	0.009	0.000	0.009	0.009	30583	137	2:688
WD1J	CANA	0.002	0.005	0.000	0.005	0.005	10180	15	2:76
WD1J	GW32	0.019	0.023	0.000	0.030	0.030	35426	29	2:146
WD1J	COY2	0.022	0.007	-0.000	0.023	0.023	11388	35	2:176
WD1J	WOOD	0.020	-0.008	-0.000	0.022	0.022	9128	1	2:6
WD1J	B849	-0.015	-0.006	-0.000	0.016	0.016	23660	77	2:386
WD1J	F859	0.009	0.001	-0.001	0.009	0.009	13557	145	2:728
VV1I	WI1H	0.001	-0.001	-0.001	0.001	0.002	90019	233	2:1170
WD1J	BROO	0.001	0.016	-0.001	0.016	0.016	38566	201	2:1008
VV1I	DAVE	-0.001	0.002	-0.001	0.002	0.003	26598	237	2:1190
WI1H	GUIN	0.002	-0.001	-0.001	0.002	0.002	33718	27	2:136
WD1J	KEAT	-0.010	0.019	-0.002	0.021	0.021	11024	40	2:201
WD1J	CODY	0.000	-0.004	-0.002	0.004	0.005	12987	160	2:803
WD1J	HERS	0.009	0.008	-0.002	0.012	0.012	25583	63	2:316
WD1J	WAPT	-0.022	-0.002	-0.002	0.022	0.022	9161	2	2:11
WD1J	PALA	0.005	0.014	-0.002	0.015	0.015	23627	84	2:421
WD1J	RUSS	0.004	-0.002	-0.003	0.004	0.005	17352	13	2:66
WD1J	ABUT	-0.008	0.002	-0.003	0.008	0.009	16651	76	2:381
WD1J	BRID	0.003	-0.015	-0.003	0.015	0.015	24674	157	2:788
WD1J	BIRD	-0.000	-0.002	-0.003	0.002	0.004	30784	219	2:1100
WOOD	DAVE	-0.001	-0.004	-0.003	0.004	0.005	17058	240	2:1205
WD1J	FERR	0.019	-0.007	-0.004	0.020	0.021	11939	107	2:538
WD1J	FERR	0.040	0.021	-0.004	0.045	0.045	11939	120	2:603
WD1J	LIBR	-0.010	-0.005	-0.004	0.012	0.012	748	172	2:863
WD1J	WILS	0.004	0.002	-0.005	0.005	0.007	21036	124	2:623
WD1J	P268	-0.000	0.000	-0.005	0.000	0.005	24729	483	2:1224
WD1J	FORD	0.016	-0.004	-0.005	0.016	0.017	6535	146	2:733

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WI1H	RUMS	0.003	0.012	-0.005	0.012	0.013	29975	25	2:126
WD1J	COUR	0.004	-0.002	-0.005	0.004	0.007	41292	228	2:1145
WD1J	1075	-0.003	-0.012	-0.005	0.012	0.013	23980	179	2:898
WD1J	DUFO	-0.005	0.006	-0.005	0.008	0.009	11863	182	2:913
WD1J	1075	-0.004	0.009	-0.006	0.010	0.011	23980	196	2:983
WD1J	DUFO	-0.004	-0.004	-0.006	0.005	0.008	11863	134	2:673
WD1J	YAPT	-0.000	-0.017	-0.006	0.017	0.018	14066	72	2:361
WD1J	HERS	-0.007	0.002	-0.007	0.007	0.010	25583	169	2:848
WD1J	SACR	-0.002	0.001	-0.007	0.002	0.007	36039	484	2:1229
WD1J	LIBR	-0.021	-0.004	-0.007	0.022	0.023	748	174	2:873
VV1I	ANDR	-0.001	0.002	-0.007	0.002	0.007	30935	235	2:1180
WD1J	WI1H	-0.004	-0.002	-0.007	0.005	0.009	62816	222	2:1115
P268	P268	0.014	0.000	-0.008	0.014	0.016	9241	494	2:1279
WD1J	0308	0.040	0.006	-0.008	0.040	0.041	5571	20	2:101
WD1J	COTT	0.007	0.007	-0.008	0.010	0.013	23674	118	2:593
WD1J	BROO	-0.003	0.011	-0.009	0.012	0.015	38566	202	2:1013
WD1J	SYCA	-0.022	0.023	-0.009	0.032	0.033	18221	130	2:653
WD1J	169A	-0.006	0.009	-0.010	0.011	0.014	17648	131	2:658
UCD1	COUR	-0.004	0.004	-0.010	0.006	0.012	27366	490	2:1259
WI1H	RUMS	0.003	0.009	-0.010	0.009	0.014	29975	26	2:131
WD1J	SM15	0.046	-0.002	-0.010	0.046	0.047	13239	122	2:613
WD1J	CONA	-0.003	-0.008	-0.011	0.009	0.014	12422	50	2:251
WD1J	CALD	0.013	0.002	-0.011	0.013	0.017	25814	148	2:743
WD1J	EX11	-0.004	-0.004	-0.011	0.006	0.012	9272	51	2:256
VV1I	WI1H	0.002	0.003	-0.011	0.003	0.011	90019	234	2:1175
WD1J	B849	0.028	0.015	-0.011	0.032	0.034	23660	93	2:466
WD1J	T849	-0.002	0.005	-0.011	0.006	0.013	18157	161	2:808
WD1J	1069	0.001	0.008	-0.012	0.008	0.014	20318	117	2:588
WD1J	SM15	-0.043	0.023	-0.012	0.049	0.050	13239	184	2:923
WD1J	DAVE	0.045	0.016	-0.013	0.048	0.050	15834	12	2:61
WD1J	WOOD	0.025	-0.004	-0.013	0.025	0.028	9128	10	2:51
WD1J	T462	0.043	0.021	-0.014	0.048	0.049	34656	82	2:411
VV1I	ANDR	-0.022	-0.028	-0.015	0.035	0.038	30935	90	2:451
WD1J	03DG	-0.019	0.003	-0.015	0.019	0.024	3819	43	2:216
WD1J	BRID	0.020	0.007	-0.015	0.021	0.026	24674	30	2:151
WD1J	PLAI	0.021	0.011	-0.016	0.023	0.028	10476	49	2:246
WD1J	DRAI	-0.005	0.024	-0.016	0.024	0.029	30583	170	2:853
WD1J	FRE3	0.048	-0.003	-0.016	0.048	0.050	15136	121	2:608
WD1J	COUR	-0.008	0.006	-0.016	0.010	0.019	41292	482	2:1219
WD1J	TYND	0.020	-0.015	-0.016	0.025	0.030	22514	143	2:718
WD1J	1031	0.020	0.001	-0.016	0.020	0.026	5058	54	2:271
WD1J	WILX	0.005	-0.007	-0.016	0.008	0.018	17340	158	2:793
WD1J	RIVE	0.007	0.001	-0.017	0.007	0.018	17271	100	2:501
SACR	COUR	-0.001	0.007	-0.017	0.007	0.018	39329	488	2:1249
WD1J	03DG	-0.005	-0.006	-0.017	0.008	0.019	3819	214	2:1075
VV1I	ANDR	0.001	-0.020	-0.018	0.020	0.027	30935	23	2:116
LD1K	COUR	-0.002	0.003	-0.018	0.004	0.018	35086	232	2:1165
WD1J	KEAT	0.003	-0.014	-0.018	0.014	0.023	11024	19	2:96
WD1J	JIMX	0.024	-0.024	-0.018	0.034	0.038	28821	141	2:708
WD1J	JIMX	0.001	0.025	-0.018	0.025	0.031	28821	64	2:321
WD1J	PALA	0.013	0.017	-0.018	0.022	0.028	23627	99	2:496
WD1J	GAF2	0.063	0.025	-0.018	0.068	0.070	33822	81	2:406
WD1J	VINC	0.007	0.002	-0.019	0.007	0.020	23495	180	2:903
WD1J	WOOD	0.047	-0.006	-0.020	0.047	0.051	9128	18	2:91
WD1J	03BG	-0.003	-0.003	-0.020	0.004	0.020	24800	98	2:491
WD1J	F859	-0.006	0.000	-0.020	0.006	0.021	13557	68	2:341
P268	COUR	0.002	0.004	-0.020	0.004	0.020	16567	495	2:1284

Appendix H – Star*Net Adjustment Report

WD1J	FRE3	-0.008	-0.014	-0.021	0.016	0.027	15136	139	2:698
WD1J	RWF1	0.029	0.015	-0.022	0.032	0.039	9964	34	2:171
WD1J	FORD	0.001	0.007	-0.022	0.007	0.023	6535	55	2:276
WD1J	SYCA	0.017	-0.014	-0.022	0.022	0.032	18221	144	2:723
WD1J	T849	-0.003	0.001	-0.023	0.003	0.023	18157	177	2:888
WD1J	CVAP	0.030	-0.024	-0.024	0.038	0.045	19372	142	2:713
WD1J	VV1I	0.008	0.008	-0.024	0.011	0.026	40536	213	2:1070
WD1J	ALH3	0.028	-0.001	-0.024	0.028	0.037	13914	123	2:618
WD1J	SM15	-0.013	-0.016	-0.025	0.021	0.032	13239	140	2:703
WD1J	ZAMX	-0.005	0.013	-0.025	0.014	0.028	12230	150	2:753
WD1J	DAVE	0.039	0.021	-0.026	0.044	0.051	15834	6	2:31
WD1J	03DG	0.040	0.015	-0.027	0.043	0.051	3819	22	2:111
VV1I	ANDR	-0.010	-0.024	-0.027	0.026	0.037	30935	11	2:56
WD1J	ALH3	0.021	0.011	-0.027	0.023	0.036	13914	92	2:461
WD1J	CAST	0.029	0.007	-0.028	0.030	0.041	16356	91	2:456
WD1J	X200	0.031	0.039	-0.028	0.050	0.057	31745	39	2:196
WD1J	GW17	0.066	-0.010	-0.029	0.067	0.073	26771	31	2:156
WD1J	VV1I	0.003	0.004	-0.029	0.005	0.030	40536	207	2:1040
WD1J	RWF1	0.016	-0.025	-0.031	0.029	0.042	9964	108	2:543
WD1J	WILS	0.022	0.003	-0.034	0.022	0.041	21036	86	2:431
WD1J	BROO	-0.007	0.017	-0.035	0.018	0.039	38566	28	2:141
WD1J	DAVE	0.046	0.016	-0.036	0.048	0.060	15834	73	2:366
LD1K	VV1I	0.002	0.002	-0.037	0.003	0.037	68803	231	2:1160
WD1J	CODY	-0.004	0.009	-0.038	0.010	0.040	12987	151	2:758
WD1J	COY2	0.021	-0.001	-0.038	0.021	0.044	11388	116	2:583
WD1J	RIVE	0.015	0.004	-0.042	0.016	0.045	17271	85	2:426
WD1J	PLEA	0.066	0.055	-0.043	0.085	0.096	30357	94	2:471
WD1J	CALD	0.027	-0.005	-0.045	0.027	0.052	25814	87	2:436
WD1J	CHUR	0.009	0.011	-0.049	0.015	0.051	3308	74	2:371
WI1H	GW32	-0.005	-0.024	-0.049	0.025	0.055	46229	156	2:783
WI1H	GUIN	0.014	-0.001	-0.067	0.014	0.068	33718	154	2:773
WD1J	T462	0.053	0.038	-0.070	0.065	0.096	34656	97	2:486
LD1K	COUR	0.040	-0.099	-0.072	0.107	0.129	35086	80	2:401
WD1J	1075	-0.011	-0.003	-0.073	0.011	0.074	23980	162	2:813
WD1J	GAF2	0.074	0.033	-0.084	0.081	0.117	33822	96	2:481
WI1H	RUMS	0.008	-0.004	-0.098	0.008	0.098	29975	153	2:768
WD1J	T462	0.003	-0.003	-0.105	0.004	0.105	34656	493	2:1274
WI1H	BROO	0.030	-0.058	-0.208	0.065	0.218	39311	155	2:778

Adjusted Bearings (DMS) and Horizontal Distances (Meters)

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(Relative Confidence of Bearing is in Seconds)

From	To	Grid Bearing	Grid Dist	95% RelConfidence		
				Grnd Dist	Brg	Dist
1	FRE3	S12-15-08.03E	64.4347	31.07	0.0063	98.2801
			64.4390			
1	FREMONT	N04-20-29.97E	39.0898	51.54	0.0089	226.9206
			39.0924			
6	ALH3	N39-13-56.65W	10.1310	51.88	0.0062	612.8315
			10.1314			
6	ALHAMBRA	S49-31-02.65E	12.9263	40.91	0.0088	679.9427
			12.9269			
11	1699	S52-21-10.00W	4.7943	290.23	0.0072	1492.2530
			4.7946			
11	169A	S90-00-00.00W	3.7297	0.00	0.0124	3312.6866
			3.7300			

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15	COY1	S55-29-54.50E	17.9726	54.77	0.0088	489.0809
			17.9734			
15	COY2	S00-00-00.00E	15.9608	0.00	0.0062	388.4121
			15.9615			
0308	WD1J	S32-48-37.25E	5571.0363	0.38	0.0116	2.0766
			5571.3810			
1031	WD1J	S86-57-29.98W	5057.9676	0.93	0.0179	3.5392
			5058.2632			
1069	WD1J	N60-52-17.91E	20317.2100	0.43	0.0372	1.8321
			20318.3371			
1075	WD1J	S37-03-16.44E	23978.1814	0.16	0.0214	0.8934
			23979.7962			
03BG	WD1J	N40-53-11.78W	24798.5687	0.35	0.0408	1.6463
			24799.7027			
03DG	WD1J	N08-41-47.61W	3818.8401	0.37	0.0077	2.0265
			3819.0585			
169A	WD1J	S67-10-09.81E	17646.8689	0.35	0.0234	1.3232
			17648.0158			
ABUT	WD1J	N74-25-19.91E	16649.8538	0.46	0.0320	1.9244
			16650.8330			
ALH3	ALHAMBRA	S45-00-00.00E	22.9659	0.00	0.0107	467.2096
			22.9669			
ALH3	WD1J	N22-11-30.88W	13913.4015	0.36	0.0261	1.8738
			13914.1030			
ANDR	VV1I	S83-13-40.47W	30934.3570	0.05	0.0059	0.1915
			30934.5954			
ANDR	WD1J	N19-33-10.99W	33916.4984	0.04	0.0068	0.2015
			33917.6700			
B849	WD1J	N48-23-49.24E	23658.3820	0.32	0.0387	1.6374
			23659.5717			
BIRD	VV1I	S04-51-19.29E	55046.8567	0.03	0.0094	0.1711
			55049.6891			
BIRD	WD1J	S51-18-41.73E	30781.3187	0.06	0.0082	0.2659
			30783.5727			
BRID	WD1J	S80-36-02.62E	24672.0939	0.31	0.0317	1.2836
			24673.6768			
BROO	WD1J	S68-30-23.26E	38563.5868	0.11	0.0194	0.5028
			38566.3256			
BROO	WI1H	N03-57-56.52E	39307.0862	0.10	0.0223	0.5668
			39310.4715			
CALD	VV1I	S68-05-47.95W	31362.5237	0.13	0.0193	0.6170
			31363.0045			
CALD	WD1J	N22-08-49.20W	25813.3702	0.15	0.0200	0.7738
			25814.4422			
CANA	WD1J	N50-51-33.40E	10179.2328	0.58	0.0267	2.6184
			10179.8027			
CAST	WD1J	N41-22-40.33W	16354.6861	0.36	0.0331	2.0247
			16355.5067			
CHUR	WD1J	N66-52-20.75E	3308.2347	1.02	0.0156	4.7191
			3308.4289			
CODY	WD1J	S02-54-36.47E	12986.5387	0.35	0.0273	2.1050
			12987.3818			
CONA	WD1J	N59-41-32.28W	12421.4835	0.51	0.0246	1.9765
			12422.1581			
COTT	WD1J	N80-12-50.85E	23672.2930	0.40	0.0380	1.6069
			23673.7569			
COUR	LD1K	S50-23-22.26E	35086.5214	0.04	0.0079	0.2244

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			35085.5758			
COUR	P268	N26-57-58.44W	16566.4216	0.09	0.0089	0.5373
			16566.6149			
COUR	SACR	N26-58-36.18E	39327.6230	0.04	0.0089	0.2258
			39328.7678			
COUR	UCD1	N37-32-59.43W	27365.7855	0.07	0.0104	0.3813
			27366.3065			
COUR	VV1I	N87-44-00.15W	37535.7638	0.04	0.0062	0.1662
			37535.8583			
COUR	WD1J	N26-03-33.71W	41290.5434	0.03	0.0076	0.1841
			41291.7817			
COY2	WD1J	N35-16-00.01W	11387.1762	0.42	0.0246	2.1635
			11387.7736			
CVAP	WD1J	S20-15-04.27E	19370.7035	0.31	0.0336	1.7352
			19371.9934			
DAVE	VV1I	S41-40-41.66W	26596.9698	0.05	0.0068	0.2574
			26597.6024			
DAVE	WD1J	N06-05-51.24E	15832.9343	0.08	0.0070	0.4438
			15833.7094			
DAVE	WOOD	N25-51-03.03W	17057.5362	0.09	0.0071	0.4154
			17058.3774			
DRAI	WD1J	S24-47-20.40E	30581.2382	0.24	0.0414	1.3552
			30583.3783			
DRAI	WI1H	N38-29-34.36W	32681.2040	0.24	0.0394	1.2068
			32683.8849			
DUFO	WD1J	S34-19-13.00E	11861.7868	0.33	0.0214	1.8035
			11862.5467			
EX11	WD1J	N70-02-34.50W	9271.1816	0.55	0.0217	2.3409
			9271.7028			
F859	WD1J	S15-01-43.82W	13556.0603	0.33	0.0246	1.8142
			13556.9425			
FERR	WD1J	S89-30-00.74W	11938.1252	0.37	0.0171	1.4287
			11938.8223			
FORD	WD1J	S29-57-16.37W	6534.4745	0.56	0.0201	3.0821
			6534.8790			
FRE3	FREMONT	N06-00-00.00W	102.5062	0.00	0.0111	108.4620
			102.5130			
FRE3	WD1J	S49-10-35.54W	15135.3536	0.36	0.0255	1.6821
			15136.3155			
GAF2	LD1K	S44-08-35.79E	41527.4727	0.07	0.0143	0.3448
			41526.6421			
GAF2	P268	N37-27-46.45W	9241.0039	0.30	0.0139	1.5007
			9241.1721			
GAF2	SACR	N35-32-36.91E	33942.6359	0.08	0.0145	0.4269
			33943.8319			
GAF2	UCD1	N46-01-35.67W	20546.6416	0.14	0.0141	0.6865
			20547.1654			
GAF2	WD1J	N28-42-41.08W	33820.9978	0.08	0.0142	0.4195
			33822.2227			
GUIN	WI1H	N09-15-31.05E	33714.8517	0.15	0.0265	0.7867
			33717.8637			
GW17	WD1J	S63-55-46.45E	26768.9731	0.15	0.0187	0.6987
			26770.8332			
GW32	WD1J	S78-22-02.12E	35423.0569	0.24	0.0361	1.0204
			35425.4976			
GW32	WI1H	N01-53-57.69E	46225.2986	0.16	0.0416	0.8995
			46229.2134			

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HERS	WD1J	S30-02-13.36E	25580.9151 25582.6639	0.29	0.0395	1.5441
JIMX	WD1J	S13-19-31.20E	28819.3908 28821.4117	0.25	0.0428	1.4864
KEAT	WD1J	S69-52-50.11E	11022.8915 11023.5780	0.52	0.0267	2.4205
LD1K	PALA	N28-16-48.82W	53186.7349 53186.5431	0.13	0.0369	0.6939
LD1K	T462	N33-28-49.78W	40204.1770 40203.5558	0.07	0.0184	0.4567
LD1K	VV1I	N69-42-51.93W	68804.4421 68802.7744	0.01	0.0049	0.0706
LD1K	WD1J	N37-13-16.56W	74673.4269 74673.8665	0.01	0.0051	0.0689
LIBR	WD1J	S54-06-35.63E	748.0330 748.0773	2.25	0.0084	11.1809
P268	SACR	N51-20-18.43E	32467.7329 32469.0841	0.03	0.0046	0.1408
P268	T462	S73-45-29.06E	12878.0501 12878.3336	0.26	0.0159	1.2311
P268	WD1J	N25-27-06.53W	24727.5871 24728.6496	0.04	0.0055	0.2243
PALA	WD1J	N57-42-02.92W	23626.2191 23627.4061	0.31	0.0340	1.4389
PLAI	WD1J	N17-07-51.82E	10475.1135 10475.6683	0.43	0.0249	2.3807
PLEA	VV1I	S12-09-59.49E	15808.2670 15808.6238	0.33	0.0270	1.7086
PLEA	WD1J	N48-23-49.56E	30355.8444 30357.2779	0.16	0.0289	0.9531
RIVE	WD1J	N79-58-48.65W	17270.2790 17271.2538	0.32	0.0264	1.5286
RUMS	WI1H	N17-30-00.06E	29971.5804 29974.3594	0.15	0.0227	0.7585
RUSS	WD1J	N32-54-12.46E	17350.7959 17351.6722	0.45	0.0381	2.1986
RWF1	WD1J	N08-14-30.08W	9963.3974 9963.9220	0.46	0.0247	2.4817
SACR	T462	S28-32-11.93W	27188.1541 27189.2210	0.13	0.0157	0.5763
SACR	WD1J	N86-44-51.68W	36037.1927 36039.2821	0.04	0.0052	0.1443
SM15	WD1J	S61-47-31.28W	13238.2079 13239.0189	0.39	0.0240	1.8163
SYCA	WD1J	S04-09-22.15W	18219.3044 18220.5185	0.33	0.0346	1.9005
T462	UCD1	N63-55-51.74W	23968.2899 23968.9881	0.14	0.0173	0.7202
T462	WD1J	N41-33-43.88W	34654.3192 34655.6957	0.09	0.0175	0.5044
T849	WD1J	S45-17-02.97E	18155.8431 18157.0511	0.29	0.0230	1.2681
TYND	WD1J	S11-18-16.24E	22512.2352 22513.7683	0.30	0.0388	1.7243
UCD1	WD1J	N05-25-12.96W	15465.8371 15466.6127	0.09	0.0086	0.5534
VINC	WD1J	S53-06-34.87E	23493.2104	0.37	0.0399	1.6991

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VV1I	WD1J	N28-32-30.23E	23494.8046 40534.5844	0.01	0.0019	0.0479
VV1I	WI1H	N08-48-58.16W	40536.0392 90014.4186	0.01	0.0033	0.0371
VV1I	WILS	N58-57-40.73E	90019.3906 30343.5112	0.18	0.0241	0.7932
VV1I	WOOD	N16-13-31.16E	30344.0940 36676.4710	0.03	0.0066	0.1802
WAPT	WD1J	N81-52-29.88E	36677.8121 9160.4975	0.54	0.0200	2.1797
WD1J	WI1H	N31-52-10.11W	9161.0470 62811.1067	0.01	0.0031	0.0492
WD1J	WILS	S18-22-34.47E	62815.7675 21035.4326	0.23	0.0268	1.2723
WD1J	WILX	N85-57-49.93W	21036.3794 17338.4469	0.49	0.0342	1.9745
WD1J	WOOD	S87-32-02.56W	17339.5149 9127.8502	0.15	0.0054	0.5875
WD1J	X200	N36-16-13.44W	9128.4010 31742.5919	0.22	0.0363	1.1425
WD1J	YAPT	S32-39-57.25W	31744.8300 14064.8464	0.42	0.0267	1.8990
WD1J	ZAMX	N18-44-25.12W	14065.5848 12228.9688	0.37	0.0234	1.9102
WI1H	X200	S27-24-00.23E	12229.7554 31257.1579	0.21	0.0373	1.1937
			31259.7585			

Error Propagation

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Station Coordinate Standard Deviations (Meters)

Station	N	E	Elev
WD1J	0.005044	0.005031	0.005589
VV1I	0.005056	0.005040	0.005829
WI1H	0.005103	0.005058	0.006059
LD1K	0.005208	0.005168	0.006957
1	0.012612	0.011730	0.014413
6	0.012330	0.010891	0.012310
11	0.012619	0.012500	0.014804
15	0.011844	0.010394	0.014375
FREMONT	0.013122	0.011077	0.014496
FRE3	0.012320	0.011066	0.012915
ALHAMBRA	0.012555	0.011168	0.012404
ALH3	0.012166	0.010729	0.012292
169A	0.012619	0.011435	0.014642
COY2	0.011570	0.010394	0.014333
1699	0.012930	0.012823	0.014857
COY1	0.012124	0.010864	0.014458
WOOD	0.005677	0.005470	0.009872
WAPT	0.011241	0.009337	0.011141
DAVE	0.005777	0.005641	0.010514
CALD	0.010174	0.008716	0.011358
WILS	0.012037	0.010881	0.012880
PLAI	0.011321	0.010283	0.011837
CHUR	0.008784	0.007666	0.009096

Appendix H – Star*Net Adjustment Report

ANDR	0.005748	0.005573	0.011086
RUSS	0.016872	0.015854	0.021404
YAPT	0.013068	0.011780	0.013938
CANA	0.013005	0.011753	0.013976
ABUT	0.016160	0.013643	0.015936
KEAT	0.013028	0.011360	0.013687
0308	0.006949	0.006539	0.009543
LIBR	0.006348	0.005764	0.006647
03DG	0.005985	0.005724	0.007623
RUMS	0.010965	0.009993	0.013936
GUIN	0.012225	0.011002	0.015901
BROO	0.010402	0.009039	0.011482
GW32	0.017720	0.015469	0.021537
BRID	0.015865	0.013789	0.016447
GW17	0.009798	0.008744	0.014366
X200	0.016684	0.013407	0.017260
DRAI	0.018367	0.014596	0.019103
RWF1	0.011214	0.010516	0.014016
CAST	0.014185	0.012875	0.016057
CONA	0.012985	0.011736	0.015297
EX11	0.011256	0.010246	0.013396
1031	0.010615	0.008830	0.011071
FORD	0.009601	0.008868	0.011723
F859	0.011354	0.010100	0.014215
CODY	0.012305	0.010340	0.014537
ZAMX	0.011284	0.009644	0.012795
DUFO	0.010229	0.009122	0.011755
T849	0.011449	0.010744	0.015831
1075	0.009845	0.009547	0.012923
HERS	0.017953	0.014252	0.016978
JIMX	0.018783	0.014589	0.019249
CVAP	0.015073	0.012308	0.016829
TYND	0.016826	0.014170	0.020677
SYCA	0.015084	0.012719	0.017769
B849	0.018346	0.013909	0.020340
PLEA	0.012619	0.011058	0.020733
COUR	0.005875	0.005576	0.011527
GAF2	0.007897	0.007029	0.015894
T462	0.008619	0.007843	0.016726
03BG	0.018991	0.016164	0.023848
PALA	0.016124	0.013916	0.020425
RIVE	0.012603	0.011385	0.017107
FERR	0.010121	0.008594	0.013044
COTT	0.019658	0.015985	0.022587
1069	0.018841	0.015129	0.020350
WILX	0.017642	0.014873	0.019459
SM15	0.011863	0.010635	0.011953
VINC	0.019948	0.014421	0.019296
BIRD	0.006302	0.005832	0.020200
P268	0.005552	0.005382	0.010881
SACR	0.005669	0.005455	0.013179
UCD1	0.006124	0.005736	0.016760

Station Coordinate Error Ellipses (Meters)
Confidence Region = 95%

Station	Semi-Major	Semi-Minor	Azimuth of	Elev
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Appendix H – Star*Net Adjustment Report

	Axis	Axis	Major Axis	
WD1J	0.012358	0.012302	151-58	0.010955
VV1I	0.012382	0.012329	157-59	0.011425
WI1H	0.012513	0.012359	157-36	0.011876
LD1K	0.012843	0.012556	144-58	0.013636
1	0.030874	0.028709	1-57	0.028249
6	0.030220	0.026615	6-05	0.024126
11	0.033190	0.028082	43-21	0.029016
15	0.028999	0.025433	177-07	0.028175
FREMONT	0.032145	0.027082	175-45	0.028412
FRE3	0.030164	0.027079	176-58	0.025314
ALHAMBRA	0.030764	0.027299	174-18	0.024311
ALH3	0.029897	0.026129	10-27	0.024093
169A	0.032354	0.026283	30-41	0.028698
COY2	0.028331	0.025431	176-25	0.028092
1699	0.033951	0.028884	43-31	0.029119
COY1	0.029792	0.026463	168-58	0.028337
WOOD	0.013913	0.013371	10-47	0.019349
WAPT	0.027987	0.022275	17-35	0.021837
DAVE	0.014145	0.013804	6-05	0.020608
CALD	0.025350	0.020800	19-06	0.022261
WILS	0.029538	0.026551	170-41	0.025244
PLAI	0.027837	0.025032	12-31	0.023201
CHUR	0.021749	0.018476	16-34	0.017827
ANDR	0.014070	0.013642	178-12	0.021729
RUSS	0.041409	0.038688	168-13	0.041950
YAPT	0.032791	0.027918	155-13	0.027318
CANA	0.031965	0.028619	168-11	0.027392
ABUT	0.039651	0.033281	7-20	0.031234
KEAT	0.032405	0.027202	160-54	0.026827
0308	0.017058	0.015953	167-35	0.018703
LIBR	0.015600	0.014039	168-11	0.013027
03DG	0.014709	0.013950	16-18	0.014941
RUMS	0.027362	0.023875	156-32	0.027314
GUIN	0.030695	0.026048	155-07	0.031165
BROO	0.025527	0.022052	171-55	0.022505
GW32	0.043376	0.037860	178-42	0.042211
BRID	0.038844	0.033738	177-11	0.032236
GW17	0.024107	0.021263	167-37	0.028157
X200	0.040838	0.032816	179-43	0.033829
DRAI	0.044969	0.035711	2-14	0.037440
RWF1	0.027764	0.025401	158-11	0.027471
CAST	0.035680	0.030427	153-51	0.031471
CONA	0.032879	0.027467	27-45	0.029982
EX11	0.027693	0.024924	13-24	0.026256
1031	0.026134	0.021431	10-46	0.021698
FORD	0.023701	0.021489	17-51	0.022976
F859	0.027802	0.024711	176-43	0.027861
CODY	0.030374	0.025002	13-10	0.028493
ZAMX	0.028020	0.023132	17-20	0.025077
DUFO	0.025139	0.022215	168-56	0.023039
T849	0.028478	0.025806	24-52	0.031028
1075	0.024734	0.022695	145-29	0.025329
HERS	0.043978	0.034845	3-37	0.033277
JIMX	0.046384	0.035177	11-43	0.037728
CVAP	0.036938	0.030076	4-44	0.032985
TYND	0.041238	0.034621	5-21	0.040527

Appendix H – Star*Net Adjustment Report

SYCA	0.037075	0.030949	170-29	0.034826
B849	0.045078	0.033818	7-33	0.039865
PLEA	0.032199	0.025491	27-33	0.040635
COUR	0.014404	0.013623	169-56	0.022592
GAF2	0.019332	0.017203	2-03	0.031152
T462	0.021612	0.018616	154-44	0.032783
03BG	0.046620	0.039407	8-10	0.046742
PALA	0.039505	0.034019	175-06	0.040032
RIVE	0.032833	0.025502	147-05	0.033529
FERR	0.024774	0.021036	179-13	0.025566
COTT	0.048348	0.038841	9-26	0.044270
1069	0.046121	0.037027	178-49	0.039885
WILX	0.043203	0.036382	3-13	0.038139
SM15	0.029071	0.025995	6-03	0.023427
VINC	0.048905	0.035191	175-20	0.037820
BIRD	0.015427	0.014273	177-19	0.039591
P268	0.013592	0.013172	177-02	0.021327
SACR	0.013877	0.013351	177-35	0.025830
UCD1	0.015012	0.014017	171-24	0.032850

Relative Error Ellipses (Meters)
Confidence Region = 95%

Stations		Semi-Major	Semi-Minor	Azimuth of	Vertical
From	To	Axis	Axis	Major Axis	
1	FRE3	0.009712	0.006322	74-51	0.012539
1	FREMONT	0.009848	0.008780	110-45	0.003036
6	ALH3	0.006216	0.002530	137-43	0.001274
6	ALHAMBRA	0.008799	0.002531	133-15	0.002993
11	1699	0.007154	0.006746	52-21	0.002443
11	169A	0.012355	0.000000	90-00	0.004289
15	COY1	0.008790	0.004772	124-30	0.003026
15	COY2	0.006199	0.000000	0-00	0.002160
0308	WD1J	0.011763	0.010152	168-10	0.015159
1031	WD1J	0.023039	0.017533	10-57	0.018729
1069	WD1J	0.044438	0.034919	178-51	0.038351
1075	WD1J	0.021426	0.019072	145-23	0.022837
03BG	WD1J	0.044958	0.037431	8-14	0.045440
03DG	WD1J	0.008020	0.006524	18-08	0.010160
169A	WD1J	0.029919	0.023204	30-47	0.026524
ABUT	WD1J	0.037683	0.030916	7-24	0.029250
ALH3	ALHAMBRA	0.010730	0.000000	135-00	0.003252
ALH3	WD1J	0.027233	0.023040	10-38	0.021458
ANDR	VV1I	0.006802	0.005910	0-29	0.018670
ANDR	WD1J	0.006930	0.006010	179-52	0.019822
B849	WD1J	0.043356	0.031494	7-36	0.038330
BIRD	VV1I	0.009425	0.007335	178-00	0.038456
BIRD	WD1J	0.009284	0.007276	178-08	0.038265
BRID	WD1J	0.036830	0.031411	177-16	0.030317
BROO	WD1J	0.022386	0.018320	171-55	0.020089
BROO	WI1H	0.022440	0.018370	171-58	0.020672
CALD	VV1I	0.022231	0.016837	19-10	0.020558
CALD	WD1J	0.022157	0.016755	19-16	0.019536
CANA	WD1J	0.029481	0.025838	168-18	0.025106
CAST	WD1J	0.033471	0.027829	153-51	0.029503
CHUR	WD1J	0.017916	0.013760	16-52	0.014064
CODY	WD1J	0.027757	0.021753	13-18	0.026303

Appendix H – Star*Net Adjustment Report

CONA	WD1J	0.030484	0.024538	27-52	0.027909
COTT	WD1J	0.046748	0.036835	9-29	0.042893
COUR	LD1K	0.008374	0.006680	163-55	0.021155
COUR	P268	0.009086	0.007052	171-36	0.021880
COUR	SACR	0.009508	0.007409	172-11	0.027418
COUR	UCD1	0.010962	0.008363	170-44	0.035206
COUR	VV1I	0.007776	0.006149	169-26	0.021651
COUR	WD1J	0.007705	0.006046	169-22	0.020938
COY2	WD1J	0.025498	0.022252	176-36	0.025867
CVAP	WD1J	0.034816	0.027438	4-49	0.031112
DAVE	VV1I	0.007052	0.006340	8-32	0.018776
DAVE	WD1J	0.007028	0.006309	8-57	0.017613
DAVE	WOOD	0.007613	0.006569	20-30	0.021995
DRAI	WD1J	0.043264	0.033537	2-13	0.036048
DRAI	WI1H	0.043293	0.033559	2-15	0.036354
DUFO	WD1J	0.021894	0.018495	169-06	0.020268
EX11	WD1J	0.024795	0.021663	13-41	0.023861
F859	WD1J	0.024909	0.021425	176-55	0.025616
FERR	WD1J	0.021478	0.017056	179-24	0.023099
FORD	WD1J	0.020242	0.017599	18-15	0.020196
FRE3	FREMONT	0.011118	0.000001	174-00	0.012901
FRE3	WD1J	0.027521	0.024118	177-09	0.022821
GAF2	LD1K	0.015560	0.012665	178-14	0.030634
GAF2	P268	0.014977	0.012088	2-18	0.030140
GAF2	SACR	0.015319	0.012355	2-13	0.034574
GAF2	UCD1	0.015702	0.012690	2-12	0.041305
GAF2	WD1J	0.014899	0.012039	2-28	0.029696
GUIN	WI1H	0.028028	0.022929	155-05	0.028813
GW17	WD1J	0.020701	0.017340	167-47	0.025939
GW32	WD1J	0.041621	0.035832	178-39	0.041156
GW32	WI1H	0.041596	0.035805	178-48	0.040931
HERS	WD1J	0.042210	0.032596	3-40	0.031422
JIMX	WD1J	0.044714	0.032947	11-46	0.036103
KEAT	WD1J	0.029957	0.024261	160-56	0.024488
LD1K	PALA	0.037742	0.031868	174-44	0.039677
LD1K	T462	0.018422	0.014404	154-00	0.032355
LD1K	VV1I	0.005249	0.003896	144-37	0.013524
LD1K	WD1J	0.005148	0.003694	145-21	0.012696
LIBR	WD1J	0.009526	0.006756	168-40	0.007050
P268	SACR	0.005267	0.004164	177-09	0.020464
P268	T462	0.017831	0.014076	154-27	0.032686
P268	WD1J	0.005715	0.004719	179-46	0.018909
PALA	WD1J	0.037561	0.031752	175-04	0.038881
PLAI	WD1J	0.024955	0.021787	12-47	0.020452
PLEA	VV1I	0.029797	0.022360	27-32	0.039309
PLEA	WD1J	0.029760	0.022319	27-39	0.039497
RIVE	WD1J	0.030418	0.022338	147-04	0.031689
RUMS	WI1H	0.024332	0.020427	156-30	0.024597
RUSS	WD1J	0.039523	0.036679	168-19	0.040495
RWF1	WD1J	0.024863	0.022223	158-15	0.025192
SACR	T462	0.018012	0.014251	154-48	0.036476
SACR	WD1J	0.006363	0.005195	179-45	0.023771
SM15	WD1J	0.026322	0.022891	6-17	0.020707
SYCA	WD1J	0.034957	0.028397	170-33	0.033059
T462	UCD1	0.018789	0.014812	156-01	0.042837
T462	WD1J	0.017744	0.013997	154-43	0.031373
T849	WD1J	0.025674	0.022665	25-08	0.029029

Appendix H – Star*Net Adjustment Report

TYND	WD1J	0.039348	0.032355	5-25	0.039018
UCD1	WD1J	0.008561	0.006742	172-09	0.031153
VINC	WD1J	0.047320	0.032967	175-22	0.036198
VV1I	WD1J	0.002060	0.001695	172-22	0.007485
VV1I	WI1H	0.003350	0.002228	164-25	0.009612
VV1I	WILS	0.026896	0.023578	170-53	0.023709
VV1I	WOOD	0.006614	0.005357	12-11	0.017419
WAPT	WD1J	0.025125	0.018550	17-43	0.018890
WD1J	WI1H	0.003119	0.002002	158-45	0.008489
WD1J	WILS	0.026841	0.023532	170-48	0.022909
WD1J	WILX	0.041402	0.034234	3-17	0.036531
WD1J	WOOD	0.006530	0.005266	12-47	0.016098
WD1J	X200	0.038977	0.030457	179-41	0.032553
WD1J	YAPT	0.030373	0.025062	155-14	0.025025
WD1J	ZAMX	0.025161	0.019572	17-30	0.022558
WI1H	X200	0.038928	0.030415	179-48	0.032125

Elapsed Time = 00:00:00

Appendix H – Adjusted Positions

Station Name	4-Char ID	Latitude	Longitude	Ellipsoid Height (m)
HPGN CA 03 08	0308	38-43-02.0004958	121-48-07.5435889	-7.414
HPGN D CA 03 BG	03BG	38-30-20.0080475	121-34-55.0956223	-21.182
HPGN D CA 03 DG	03DG	38-38-27.4394067	121-45-39.5984645	-7.310
P 1031	1031	38-40-38.1479191	121-42-34.0801280	-20.714
T 1069	1069	38-35-09.9996094	121-58-17.4575516	23.448
P 1075	1075	38-50-51.2967943	121-56-00.2612045	-15.630
169	1699	38-44-12.7	121-57-15.9	21.534
169A	169A	38-44-12.7852850	121-57-15.8171466	21.729
ABUT	ABUT	38-38-05.7076219	121-57-06.7034081	21.623
ALH3	ALH3	38-33-31.6147036	121-42-27.3745636	-18.562
ALHAMBRA	ALHA	38-33-31.1	121-42-26.7	-18.382
ANDREW	ANDR	38-23-12.1791490	121-38-18.7228986	-27.943
B 849	B849	38-32-01.2921913	121-58-15.1856369	8.359
BIRD	BIRD	38-50-54.7365197	122-02-37.4796512	63.644
BRIDGE	BRID	38-42-41.3958333	122-02-50.1856006	33.420
BROOKS	BROO	38-48-08.4941628	122-10-48.7281290	70.102
CALDWELL	CALD	38-27-33.5131149	121-39-24.2181895	-26.007
CANAL	CANA	38-37-02.0555724	121-51-30.1190336	-1.598
CASTRO AZ MARK RESET	CAST	38-33-50.7791546	121-38-37.8083322	-25.794
CHURCH	CHUR	38-39-48.0066487	121-48-09.0602332	-6.880
CODY	CODY	38-47-30.5980225	121-46-29.0232241	-18.031
CONAWAY	CONA	38-37-05.4954950	121-38-40.4320243	-23.181
COTTON	COTT	38-38-20.2457314	122-02-08.1242983	60.608
COURTLAND	COUR	38-20-24.7617333	121-33-40.0539085	-23.522
COY DUMP	COY1	38-35-28.1	121-41-31.8	-22.660
COY2	COY2	38-35-27.7543674	121-41-32.3713731	-22.995
CVAP 02	CVAP	38-50-19.7651135	121-50-39.1800947	-22.698
DAVEPORT	DAVE	38-31-59.4657054	121-47-14.1796425	-12.084
DRAIN	DRAI	38-55-31.0470189	121-54-52.4652285	-17.571
DUFOUR	DUFO	38-45-48.0981332	121-50-39.0701269	-10.741
EX 1	EX11	38-38-46.4100847	121-40-03.0270639	-23.300
F 859 RESET	F859	38-47-34.2023796	121-43-36.0199542	-16.495
FERRY	FERR	38-40-32.0097068	121-37-49.1814684	-18.634
FORD RM 2	FORD	38-43-33.2369509	121-43-47.3952696	-13.331
FRE3	FRE3	38-45-49.5856912	121-38-07.5943172	-16.317
FREMONT	FREM	38-45-52.9	121-38-08.0	-17.977
GAF2	GAF2	38-24-26.0219112	121-34-56.5346551	-30.266
GAFFNEY	GAFF	38-24-25.7	121-34-56.1	-30.395
GUINDA	GUIN	38-51-20.8606258	122-12-41.4516494	90.463
GWM 17	GW17	38-46-52.2593476	122-02-38.1086745	54.134
GWM 32	GW32	38-44-21.9715067	122-09-59.0284590	82.069
HERSHEY	HERS	38-52-28.8497076	121-54-51.9684166	-16.509
JIMENO RM 4	JIME	38-55-39.8628631	121-50-35.8779482	-18.204
KEATON	KEAT	38-42-33.5227927	121-53-11.0868627	4.836
LIBRARY	LIBR	38-40-44.1865225	121-46-28.1029167	-11.204
PALA	PALA	38-33-38.0131832	121-32-19.5234942	-17.938

Appendix H – Adjusted Positions

PLAINFIELD	PLAI	38-35-05.4988301	121-48-11.6262323	-11.341
PLEASANT	PLEA	38-29-37.0737224	122-01-41.9137155	13.915
RIVER	RIVE	38-38-50.4602104	121-34-20.0665230	-18.747
RUMSEY	RUMS	38-53-52.7043183	122-15-10.8208756	121.073
RUSSELL RANCH2	RUSS	38-32-38.0658970	121-52-33.8417410	-2.026
RWF1	RWF1	38-35-10.0007255	121-45-05.1035201	-16.629
SM NO 15	SM15	38-43-51.6024231	121-37-59.3930578	-23.321
SYCAMORE	SYCA	38-50-19.1251097	121-45-06.3941045	-22.601
T 462	T462	38-26-25.9935232	121-30-17.7653949	-21.983
T 849	T849	38-47-24.9340350	121-54-56.3475378	5.518
TYNDALL	TYND	38-52-26.1795277	121-49-03.8140285	-21.332
VINCOR	VINC	38-48-08.1197071	121-59-00.3249683	17.670
WAPT	WAPT	38-39-48.5099630	121-52-18.3321695	10.560
WILSON	WILS	38-29-41.8509387	121-41-31.5184453	-21.807
WILX	WILX	38-41-10.3153902	121-57-58.5991137	15.968
WOODPORT	WOOD	38-40-17.7641698	121-52-20.3832867	8.602
X 200 RESET	X200	38-54-20.7328276	121-58-59.7926266	-0.522
YAPT	YAPT	38-34-06.4277975	121-51-17.9243352	-1.079
ZAMX	ZAMX	38-46-45.7869613	121-48-44.6325510	-17.878

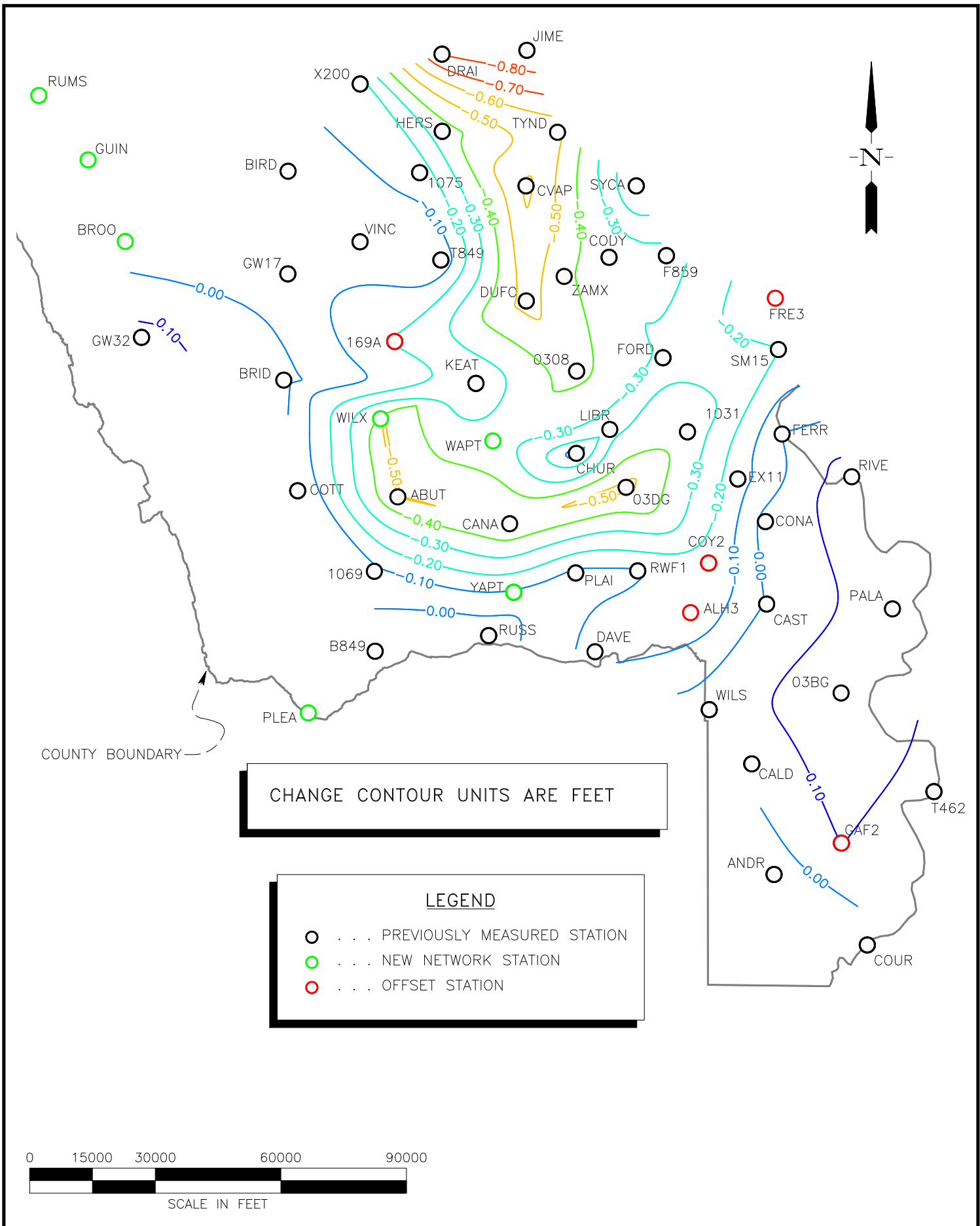
Note: latitudes and longitudes shown for stations where an offset station was required for height measurement are taken from the NGS datasheet and rounded to the nearest 1/10 arc-second. These should be considered approximate.

Appendix I – Ellipsoid Height Change 2024-2017 (feet)

4-Char ID	EH 2024-2017 (ft)	Remarks
0308	-0.440	
03BG	0.181	
03DG	-0.530	
1031	-0.376	
1069	-0.080	
1075	-0.137	
1699	-0.213	
ABUT	-0.503	
ALHA	-0.201	
ANDR	-0.048	
B849	0.091	
BIRD	-0.035	
BRID	0.028	
BROO	-0.064	2012 EH change prorated to 2017
CALD	0.032	
CANA	-0.497	
CAST	0.007	
CHUR	-0.045	
CODY	-0.318	
CONA	0.042	
COTT	-0.062	
COUR	-0.062	
COY1	-0.196	
CVAP	-0.624	
DAVE	-0.135	
DRAI	-0.805	
DUFO	-0.536	
EX11	-0.142	
F859	-0.345	
FERR	0.003	
FORD	-0.285	
FREM	-0.102	
GAFF	0.102	
GUIN	-0.064	
GW17	-0.053	
GW32	0.133	
HERS	-0.359	
JIME	-0.902	
KEAT	-0.212	
LIBR	-0.272	
PALA	0.155	
PLAI	-0.073	
RIVE	0.154	
RUMS	-0.004	2012 EH change prorated to 2017
RUSS	0.058	
RWF1	-0.086	
SM15	-0.203	

Appendix I – Ellipsoid Height Change 2024-2017 (feet)

SYCA	-0.094	
T462	0.065	
T849	-0.022	
TYND	-0.526	
VINC	-0.028	
WILS	0.051	
WILX	-0.512	Calculated from MADZ transfer
WOOD	-0.332	
X200	-0.164	
ZAMX	-0.419	



Appendix K – Station Descriptions

169A

THE MARK IS LOCATED ABOUT 3.8 MI (6.1 KM) NORTH OF MADISON IN YOLO COUNTY.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE 505 AND STATE HIGHWAY 16 NEAR MADISON, GO NORTH ON INTERSTATE 505 FOR ABOUT 2.8 MI (4.5 KM) TO ROAD 19. TURN RIGHT AND GO EAST FOR ABOUT 200 FT (61.0 M) TO ROAD 90A, A SIDE ROAD LEFT. TURN LEFT AND GO NORTH ON ROAD 90A FOR ABOUT 1.2 MI (1.9 KM) TO ROAD 17, A SIDE ROAD RIGHT. TURN RIGHT AND GO EAST ON ROAD 17 FOR ABOUT 100 FT (30.5 M) AND THE STATION ON THE RIGHT.

THIS MARK WAS SET AS AN OFFSET TO BENCH MARK 169 (PID JS2170), WHICH IS NO LONGER PRACTICAL TO DIRECTLY OBSERVE DUE TO THE PRESENCE OF A WELDED STEEL FENCE RAIL ABOVE THE DATUM POINT. THE MARK IS A 1 INCH (25 MM) COPPER DISK SET IN THE TOP OF A CONCRETE CULVERT HEADWALL. IT IS 17.5 FT (5.3 M) SOUTH OF THE CENTERLINE OF ROAD 17, 10.8 FT (3.3 M) NORTHEAST OF A 6 INCH (15 CM) SQUARE STEEL FENCE CORNER POST, 9.6 FT (2.9 M) NORTH-NORTHEAST OF BENCH MARK 169, 8.8 FT (2.7 M) NORTH OF A WELDED STEEL FENCE, 6.2 FT (1.9 M) EAST OF A PVC ROAD PADDLE AND 1.0 FT (0.3 M) WEST OF THE EAST END OF THE HEADWALL.

ABUT

THE STATION IS LOCATED ABOUT 12.5 MI (20.1 KM) NORTHWEST OF DAVIS, ABOUT 10.5 MI (16.9 KM) WEST-SOUTHWEST OF WOODLAND AND ABOUT 3.5 MI (5.6 KM) SOUTHEAST OF MADISON.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 505 AND ROAD 27, ABOUT 3 MI (4.8 KM) NORTH OF MADISON, GO WEST ON ROAD 27 FOR 1.0 MI (1.6 KM) TO THE INTERSECTION OF ROAD 89. TURN RIGHT AND GO NORTH ON ROAD 89 FOR 1.0 MI (1.6 KM) TO THE INTERSECTION OF ROAD 26. TURN RIGHT AND GO EAST ON ROAD 26 FOR 1.05 MI (1.69 KM) TO THE BRIDGE OVERCROSSING OF HIGHWAY 505 AND THE STATION ON THE LEFT AT THE NORTHEAST CORNER OF THE BRIDGE. THE STATION IS 28.9 M (94.8 FT) EAST OF THE CENTERLINE OF HIGHWAY 505, 5.9 M (19.4 FT) NORTH OF THE CENTERLINE OF ROAD 26, 5.4 M (17.7 FT) SOUTH-SOUTHWEST OF A CARSONITE WITNESS POST, 5.1 M (16.7 FT) WEST OF THE EAST END OF THE CONCRETE HEADWALL AND 0.22 M (0.72 FT) SOUTH OF THE FACE OF THE CONCRETE HEADWALL.

Appendix K – Station Descriptions

ALH3

THE MARK IS LOCATED IN THE NORTHEASTERN PART OF THE CITY OF DAVIS.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 80 AND MACE BOULEVARD AT THE EAST END OF DAVIS, GO NORTH ON MACE BOULEVARD FOR 0.4 MI (0.6 KM) TO A SIDE ROAD RIGHT, ALHAMBRA DRIVE. TURN LEFT AND GO WEST ON ALHAMBRA DRIVE FOR 0.6 MI (1.0 KM) TO THE INTERSECTION OF FIFTH STREET ON THE LEFT AND OCEANO WAY ON THE RIGHT. CONTINUE WEST AND THEN NORTHWEST ON ALHAMBRA DRIVE FOR 0.15 MI (0.24 KM) TO THE STATION ON THE LEFT AND ACROSS THE MEDIAN STRIP. CONTINUE NORTHWEST ON ALHAMBRA DRIVE FOR 0.1 MI (0.2 KM) TO THE INTERSECTION OF LOYOLA DRIVE ON THE LEFT AND CONQUISTADOR WAY ON THE RIGHT. MAKE A U-TURN ON ALHAMBRA DRIVE AND GO SOUTHEAST FOR 0.1 MI (0.2 KM) TO THE STATION ON THE RIGHT.

THE STATION IS A 1 INCH (25 MM) COPPER DISK SET FLUSH IN THE TOP OF CURB ON THE SOUTHWEST SIDE OF ALHAMBRA DRIVE. IT IS ABOUT 75 FT (22.9 M) NORTH OF STATION ALHAMBRA (PID AI5051), WHICH IS NO LONGER SUITABLE FOR SATELLITE OBSERVATIONS DUE TO TREE COVER.

ANDREW

THE STATION IS ABOUT 12.5 MI (20.1 KM) SOUTHEAST OF DAVIS AND ABOUT 11 MI (17.7 KM) SOUTHEAST OF DIXON.

TO REACH THE STATION FROM THE INTERSECTION OF FIRST STREET (HIGHWAY 113) AND A STREET IN DIXON, GO SOUTH ON FIRST STREET (HIGHWAY 113) FOR 2.0 MI (3.2 KM) TO THE INTERSECTION OF MIDWAY ROAD. TURN LEFT AND GO EAST ON MIDWAY ROAD FOR 5.5 MI (8.9 KM) TO THE INTERSECTION OF BULKLEY ROAD. CONTINUE EAST ON MIDWAY FOR 1.5 MI (2.4 KM) TO THE INTERSECTION OF ROAD 104. TURN RIGHT AND GO SOUTH ON ROAD 104 FOR 2.0 MI (3.2 KM) TO A SIDE ROAD LEFT, ROAD 155. TURN LEFT AND GO EAST ON ROAD 155 FOR 3.0 MI (4.8 KM) TO THE END OF ROAD 155 AND A SIDE ROAD LEFT, ROAD 107, AND THE STATION ON THE EAST SIDE OF ROAD 107. THE STATION IS 98 FT (29.9 M) NORTHEAST OF A POWER POLE, 73.6 FT (22.4 M) NORTH OF THE EXTENDED CENTERLINE OF ROAD 155, 55 FT (16.8 M) NORTH-NORTHWEST OF A U.S. DEPT. OF INTERIOR, FISH AND WILDLIFE SERVICE SURVEY DISK ON REBAR, STAMPED 100-1996, 42 FT (12.8 M) SOUTH OF A POWER POLE, 17.5 FT (5.3 M) EAST OF THE CENTERLINE OF ROAD 107, AND 2 FT (0.6 M) WEST OF A BARBED WIRE FENCE, AND 0.5 FT (0.2 M) WEST OF A CARSONITE WITNESS POST. THE STATION WAS OCCUPIED AS PART OF THE SAN JOAQUIN-SACRAMENTO RIVER DELTA GPS/VERTICAL PROJECT.

RECOVERED IN GOOD CONDITION AS DESCRIBED, EXCEPT THAT THE BARBED WIRE FENCE AND THE ORIGINAL CARSONITE WITNESS POST ARE GONE.

THE STATION IS 3.0 FT (0.9 M) WEST OF A POST-AND-CABLE FENCE, 4.6 FT (1.4 M) NORTHWEST OF AN 11 INCH (28 CM) DIAMETER WOODEN FENCE POST AND 8.0 FT (2.4 M) SOUTH-SOUTHWEST OF AN 11 INCH (28 CM) DIAMETER WOODEN FENCE POST.

Appendix K – Station Descriptions

B 849

THE STATION IS LOCATED 0.8 MI N OF WINTERS.

TO REACH THE STATION FROM THE INTERSECTION OF GRANT STREET (HIGHWAY 128) AND RAILROAD AVENUE (ROAD 89) IN WINTERS, GO NORTH ON RAILROAD AVENUE FOR 0.6 MI (1.0 KM) TO THE STATION ON THE RIGHT. THE RAILROAD TRACKS HAVE BEEN REMOVED. THE STATION IS ON THE EAST SIDE OF THE ABANDONED RAILBED AND IS ABOUT 5 FT (1.5 M) NORTH OF A CARSONITE WITNESS POST. THE STATION WAS OCCUPIED AS PART OF THE SAN JOAQUIN-SACRAMENTO RIVER DELTA GPS/VERTICAL PROJECT.

THE STATION IS ABOUT 21 M (68.9 FT) EAST OF THE CENTERLINE OF RAILROAD AVENUE, 14.9 M (48.9 FT) NORTHEAST OF A POWER LINE POLE, 12.3 M (40.4 FT) EAST OF A ROW OF TREES, 6.4 M (21.0 FT) EAST OF THE WESTERN OF TWO CONCRETE HEADWALLS AND 1.5 M (4.9 FT) NORTH OF A CARSONITE WITNESS POST.

BIRD

THE STATION IS LOCATED ABOUT 10 MI (16.1 KM) NORTHWEST OF THE TOWN OF ZAMORA AND ABOUT 5 MI (8.0 KM) SOUTHWEST OF THE TOWN OF DUNNIGAN.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 5 AND COUNTY ROAD E4, ROAD 6, IN DUNNIGAN, GO WESTERLY ON ROAD E4 FOR ABOUT 3.0 MI (4.8 KM) TO A SIDE ROAD RIGHT, ROAD 86. CONTINUE ON ROAD E4 SOUTHWESTERLY FOR ABOUT 3.6 MI (5.8 KM) TO THE STATION ON THE RIGHT (ABOUT 0.6 MI (1.0 KM) NORTH OF ROAD 10) . THE STATION IS A 2 1/2 IN YOLO COUNTY DISK SET INSIDE AN ALUMINUM LOGO CAP. IT IS 7.6 M (24.9 FT) SOUTH OF A POWER POLE, 6.7 M (22.0 FT) WEST OF THE CENTERLINE OF ROAD E4, 2.1 M (6.9 FT) NORTHEAST OF THE NORTH GATE POST OF A WIRE GATE. 0.9 M (3.0 FT) EAST OF A CARSONITE WITNESS POST SET IN THE FENCE LINE AND ABOUT LEVEL WITH THE ROAD.

BRIDGE

THE STATION IS LOCATED ABOUT 15 MI (24.1 KM) WEST OF WOODLAND AND ABOUT 0.3 MI (0.5 KM) NORTH OF THE TOWN OF CAPAY.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 505 AND STATE HIGHWAY 16, ABOUT 0.5 MI (0.8 KM) EAST OF MADISON, GO WEST ON HIGHWAY 16 FOR ABOUT 3.0 MI (4.8 KM) WHERE HIGHWAY 16 TURNS NORTH TOWARDS THE TOWN OF ESPARTO. TURN RIGHT AND GO NORTH AND THEN NORTHWESTERLY ON HIGHWAY 16 FOR ABOUT 2.0 MI (3.2 KM) TO A SIDE ROAD RIGHT, COUNTY ROAD E4, ROAD 85. TURN RIGHT AND GO NORTH ON ROAD E4 FOR 0.3 MI (0.5 KM) TO A BRIDGE OVER CACHE CREEK AND THE STATION ON THE RIGHT IMMEDIATELY AFTER CROSSING THE BRIDGE.

THE STATION IS A 2 1/2 IN YOLO COUNTY DISK SET INSIDE AN ALUMINUM LOGO CAP. IT IS 16.7 M (54.8 FT) SOUTH-SOUTHWEST OF A POWER POLE, 8.7 M (28.5 FT) EAST OF THE CENTERLINE OF ROAD E4, 2.8 M (9.2 FT) NORTHWEST OF THE CORNER OF A CHAIN LINK FENCE, 2.0 M (6.6 FT) SOUTHWEST OF A CARSONITE WITNESS POST SET IN THE FENCELINE AND ABOUT 0.3 M (1.0 FT) LOWER THAN THE ROAD.

Appendix K – Station Descriptions

BROOKS

THE STATION IS LOCATED IN YOLO COUNTY NEAR BROOKS, ABOUT 34.2 KM SOUTHEAST OF THE INTERSECTION OF STATE HIGHWAY 16 AND STATE HIGHWAY 20 IN COLUSA COUNTY, 20.7 KM SOUTHWEST OF DUNNIGAN, AND 18.3 KM NORTHWEST OF ESPARTO.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE 505 AND STATE HIGHWAY 16 IN YOLO COUNTY, PROCEED WESTBOUND ON STATE HIGHWAY 16 TO CACHE CREEK CASINO. CONTINUE 7.5 KM NORTHWESTERLY ON STATE HIGHWAY 16 TO THE INTERSECTION OF STATE HIGHWAY 16 AND SHADOW VALLEY ROAD AND THE STATION ON THE LEFT IN THE SOUTHWEST QUADRANT OF THE INTERSECTION.

THE STATION IS A 3/4 IN ALUMINUM ALLOY ROD DRIVEN TO REFUSAL, WITH A CADT/CSRC ALUMINUM SURVEY DISK AFFIXED, SET IN A 6 IN DIAMETER PVC WELL CASING WITH AN ALUMINUM ACCESS COVER. THE STATION LIES 29.4 M SOUTHEAST OF THE NORTHEAST CORNER OF AN OLD SINGLE PLANE HANGER, 18.5 M SOUTH OF THE CENTERLINE OF SHADOW VALLEY ROAD, 15.7 M SOUTH OF A STOP SIGN, 4.9 M WEST OF THE EDGE OF PAVEMENT OF HIGHWAY, 3.0 M SOUTH OF A POST MILE 14.00 PADDLE, 1.0 M NORTH OF A METAL GUARD POST, AND ABOUT LEVEL WITH THE HIGHWAY. THIS STATION WAS OCCUPIED AS PART OF A CALTRANS NORTH REGION OFFICE OF SURVEYORS GPS HEIGHT MODERNIZATION PROJECT.

CALDWELL

THE STATION IS ABOUT 9 MI (14.5 KM) EAST OF DIXON AND ABOUT 7.5 MI (12.1 KM) SOUTHEAST OF DAVIS.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 80 AND MACE BOULEVARD (ROAD 104) GO SOUTH ON MACE BOULEVARD (ROAD 104) FOR ABOUT 4 MI (6.4 KM) TO A SIDE ROAD RIGHT, TREMONT ROAD. CONTINUE SOUTH ON ROAD 104 FOR 0.5 MI (0.8 KM) TO WHERE ROAD 104 MAKES A SHARP LEFT TURN. FOLLOW ROAD 104 FOR 0.1 MI (0.2 KM) TO WHERE ROAD 104 MAKES ANOTHER SHARP RIGHT TURN TO THE SOUTH. CONTINUE SOUTH ON ROAD 104 FOR 3.0 MI (4.8 KM) TO A SIDE ROAD LEFT, ROAD 38A. TURN LEFT AND GO EAST ON ROAD 38A FOR 1.0 MI (1.6 KM) TO A SIDE ROAD LEFT, ROAD 105. TURN LEFT AND GO NORTH ON ROAD 105 FOR 0.5 MI (0.8 KM) TO A SIDE ROAD RIGHT, ROAD 38. TURN RIGHT AND GO EAST ON ROAD 38 FOR 1.0 MI (1.6 KM) TO THE END OF ROAD 38 AND A SIDE ROAD LEFT, ROAD 106, AND THE STATION ON THE EAST SIDE OF ROAD 106.

THE STATION IS ABOUT 69 FT (21.0 M) NORTHEAST OF A TELEPHONE POLE, 31 FT (9.4 M) NORTH OF THE EXTENDED CENTERLINE OF ROAD 38, 22 FT (6.7 M) EAST OF THE CENTERLINE OF ROAD 106, AND 2 FT (0.6 M) WEST OF A WIRE FENCE AND A CARSONITE WITNESS POST. THE STATION WAS OCCUPIED AS PART OF THE SAN JOAQUIN-SACRAMENTO RIVER DELTA GPS/VERTICAL PROJECT.

Appendix K – Station Descriptions

CANAL

THE STATION IS LOCATED ABOUT 8.5 MI (13.7 KM) NORTHWEST OF DAVIS AND ABOUT 6 MI (9.7 KM) SOUTHWEST OF WOODLAND.

TO REACH THE STATION FROM THE INTERSECTION OF MAIN STREET, STATE HIGHWAY 16, AND COUNTY ROAD 98 IN WOODLAND, GO SOUTH ON ROAD 98 FOR 4.0 MI (6.4 KM) TO THE INTERSECTION OF COUNTY ROAD 27. TURN RIGHT AND GO WEST ON ROAD 27 FOR 3.0 MI (4.8 KM) TO THE INTERSECTION OF COUNTY ROAD 95. TURN LEFT AND GO SOUTH ON ROAD 95 FOR 0.15 MI (0.24 KM) TO THE STATION ON THE LEFT.

THE STATION IS A 2 IN YOLO COUNTY DISK SET IN THE TOP OF A CONCRETE CULVERT. IT IS 17.6 M (57.7 FT) NORTHEAST OF AND ACROSS THE ROAD FROM A POWER POLE, 4.6 M (15.1 FT) EAST OF THE CENTERLINE OF THE ROAD, 4.0 M (13.1 FT) SOUTH OF THE CENTERLINE OF A DIRT ROAD ALONG THE NORTH SIDE OF A CANAL, 1.1 M (3.6 FT) NORTH OF A CARSONITE WITNESS POST AND 0.3 M (1.0 FT) SOUTH OF THE NORTH END OF A 0.3 M (1.0 FT) BY 5.0 M (16.4 FT) CONCRETE HEADWALL.

CASTRO AZ MK RESET

THE STATION IS LOCATED ON THE SOUTH SIDE OF ROAD 32A NEAR THE WEST END OF THE YOLO CAUSEWAY, ABOUT 9 MI (14.5 KM) WEST OF DOWNTOWN SACRAMENTO, 5 MI (8.0 KM) EAST OF DAVIS AND 0.1 MI (0.2 KM) NORTH OF INTERSTATE HIGHWAY 80.

TO REACH THE STATION FROM THE U.S. HIGHWAY 50/HARBOR BLVD INTERCHANGE IN WEST SACRAMENTO, GO WEST ON HIGHWAY 50 FOR 1.1 MI (1.8 KM) TO THE JUNCTION WITH INTERSTATE HIGHWAY 80. CONTINUE WEST ON INTERSTATE 80 FOR 4.0 MI (6.4 KM) TO THE FRONTAGE ROAD OFF-RAMP AT THE WEST END OF THE YOLO CAUSEWAY. TAKE THE OFF-RAMP WEST AND NORTH FOR 0.2 MI (0.3 KM) TO A T-INTERSECTION WITH ROAD 32A. TURN LEFT AND GO WEST ON ROAD 32A FOR ABOUT 450 FT (137.2 M) TO THE STATION ON THE LEFT.

THE STATION IS 435 FT (132.6 M) WEST OF THE CENTERLINE OF THE INTERSTATE 80 ON AND OFF-RAMPS, 106.5 FT (32.5 M) EAST OF A POWERLINE POLE, 97.3 FT (29.7 M) SOUTH OF THE CENTERLINE OF ROAD 32A, 3.0 FT (0.9 M) NORTH OF A FENCE, 2.3 FT (0.7 M) NORTH OF A CARSONITE WITNESS POST, ABOUT 8 FT (2.4 M) LOWER THAN ROAD 32A AND PROJECTS 0.2 FT (0.1 M) ABOVE GROUND. THIS STATION WAS OCCUPIED AS PART OF A CALIFORNIA HPGN DENSIFICATION SURVEY.

Appendix K – Station Descriptions

CHURCH

THE STATION IS LOCATED AT THE INTERSECTION OF GIBSON ROAD AND COUNTY ROAD 98 IN SOUTHWEST WOODLAND.

TO REACH THE STATION FROM THE INTERSECTION OF EAST MAIN STREET, STATE HIGHWAY 16, AND COUNTY ROAD 98 IN WEST WOODLAND, GO SOUTH ON ROAD 98 FOR 1.0 MI (1.6 KM) TO THE INTERSECTION OF GIBSON ROAD AND THE STATION ON THE LEFT IN THE NORTHEAST QUADRANT OF THE INTERSECTION ON THE PROPERTY OF THE WOODLAND PRESBYTERIAN CHURCH.

THE STATION IS A 2 1/2 IN YOLO COUNTY DISK SET INSIDE AN ALUMINUM LOGO CAP. IT IS 18.3 M (60.0 FT) NORTH OF THE CENTERLINE OF GIBSON ROAD, 15.0 M (49.2 FT) EAST OF THE CENTERLINE OF ROAD 98, 6.6 M (21.7 FT) NORTHWEST OF A STOP SIGN, 5.3 M (17.4 FT) SOUTHEAST OF A LIGHT POLE, 0.2 M (0.7 FT) NORTHEAST OF THE NORTHEAST EDGE OF A SIDEWALK, ABOUT LEVEL WITH THE SIDEWALK AND 3 CM BELOW THE LEVEL OF THE GRASS LAWN.

CODY

THE STATION IS LOCATED ABOUT 5.5 MI (8.9 KM) EAST OF ZAMORA AND ABOUT 3 MI (4.8 KM) WEST OF KNIGHTS LANDING.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 5 AND COUNTY ROAD E10, ROAD 13, IN ZAMORA, GO EAST ON ROAD E10 FOR ABOUT 3.0 MI (4.8 KM) TO THE INTERSECTION OF ROAD 97. CONTINUE EAST ON ROAD E10 FOR ABOUT 2.5 MI (4.0 KM) TO THE END OF ROAD E10 AND THE INTERSECTION OF STATE HIGHWAY 113 AND COUNTY ROAD E11, ROAD 99E. TURN RIGHT AND GO SOUTH ON HIGHWAY 113 FOR ABOUT 0.1 MI (0.2 KM) TO THE STATION ON THE RIGHT JUST PAST A LARGE MILLING AND STORAGE PLANT.

THE STATION IS A 2 1/2 IN YOLO COUNTY DISK SET INSIDE AN ALUMINUM LOGO CAP. IT IS ABOUT 40 M (131.2 FT) SOUTH-SOUTHEAST OF THE SOUTHEAST CORNER OF A LARGE CORRUGATED METAL BUILDING, 21.4 M (70.2 FT) WEST-SOUTHWEST OF AND ACROSS HIGHWAY 113 FROM A POWER POLE WITH TRANSFORMER, 10.5 M (34.4 FT) WEST OF THE CENTERLINE OF THE HIGHWAY AND 0.8 M (2.6 FT) EAST OF A CARSONITE WITNESS POST.

Appendix K – Station Descriptions

CONAWAY

THE STATION IS LOCATED ABOUT 9 MI (14.5 KM) EAST OF DAVIS AND ABOUT 7 MI (11.3 KM) SOUTHEAST OF WOODLAND ALONG THE WEST SIDE OF THE YOLO BYPASS ON THE PROPERTY OF THE CONAWAY RANCH.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 5 AND COUNTY ROAD E8, ROAD 102, ABOUT 2 MI (3.2 KM) EAST OF WOODLAND, GO SOUTH ON ROAD E8 FOR ABOUT 1.8 MI (2.9 KM) TO A SIDE ROAD LEFT, ROAD 25. TURN LEFT AND GO EAST ON ROAD 25 FOR ABOUT 3.5 MI (5.6 KM) TO THE END OF ROAD 25, ON CONAWAY RANCH PROPERTY, AND THE LEVEE ON THE WEST SIDE OF THE YOLO BYPASS. TURN RIGHT AND GO SOUTHEAST ON THE LEVEE ROAD FOR ABOUT 2.35 MI (3.78 KM) TO A DIRT SIDE ROAD LEFT, IMMEDIATELY PAST TWO DIRT SIDE ROADS RIGHT. TURN LEFT AND GO NORTHEAST ON THE DIRT ROAD AND OFF THE LEVEE FOR ABOUT 50 M (164.0 FT) TO THE STATION ON THE LEFT.

THE STATION IS SET IN THE TOP OF A LARGE CONCRETE HEADWALL. IT IS ABOUT 53 M (173.9 FT) NORTHEAST OF THE CENTERLINE OF THE LEVEE ROAD, 5.1 M (16.7 FT) NORTH OF THE CENTERLINE OF THE DIRT ROAD, 1.0 M (3.3 FT) EAST OF A CARSONITE WITNESS POST, 0.6 M (2.0 FT) EAST OF AN ANGLE IN THE HEADWALL AND 0.45 M (1.48 FT) WEST OF THE WEST SIDE OF A METAL WALKWAY.

COTTON

THE STATION IS LOCATED ABOUT 15 MI (24.1 KM) SOUTH-SOUTHWEST OF WOODLAND, 9 MI (14.5 KM) NORTH-NORTHWEST OF WINTERS AND ABOUT 5 MI (8.0 KM) SOUTHWEST OF MADISON.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 505 AND ROAD 27, ABOUT 4 MI (6.4 KM) SOUTH OF MADISON, GO WEST ON ROAD 27 FOR 1.0 MI (1.6 KM) TO THE INTERSECTION OF ROAD 89. TURN RIGHT AND GO NORTH ON ROAD 89 FOR 1.0 MI (1.6 KM) TO THE INTERSECTION OF ROAD 26. TURN LEFT AND GO WEST ON ROAD 26 FOR 2.0 MI (3.2 KM) TO THE INTERSECTION OF ROAD 87. CONTINUE WEST AND THEN NORTHWEST ON ROAD 26 TO A GATE AT THE END OF THE COUNTY MAINTAINED ROAD AND THE STATION ON THE RIGHT.

THE STATION IS A 2 1/2 IN YOLO COUNTY DISK SET IN THE TOP OF A ROUND CONCRETE MONUMENT. IT IS 5.3 M (17.4 FT) NORTHEAST OF THE CENTERLINE OF ROAD 26, 4.0 M (13.1 FT) EAST OF THE NORTHEAST GATE POST. 3.0 M (9.8 FT) SOUTHEAST OF A FENCE, 2.8 M (9.2 FT) SOUTHEAST OF A CARSONITE WITNESS POST, 2.0 M (6.6 FT) SOUTHEAST OF A ROAD END SIGN AND 1.7 M (5.6 FT) SOUTHWEST OF ANOTHER FENCE LINE.

Appendix K – Station Descriptions

COURTLAND

THE STATION WAS RECOVERED AND IS ABOUT 16.7 MI (26.9 KM) SOUTH OF THE STATE CAPITOL IN SACRAMENTO, AND 3.0 MI (4.8 KM) SOUTHWEST OF HOOD. A COMPLETE NEW DESCRIPTION FOLLOWS.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 5 AND HOOD-FRANKLIN ROAD, GO WEST ON HOOD-FRANKLIN ROAD FOR ABOUT 2.3 MI (3.7 KM) TO THE INTERSECTION OF RIVER ROAD IN HOOD. TURN LEFT AND GO SOUTH ON RIVER ROAD FOR 1.74 MI (2.80 KM) TO A PAVED SIDE ROAD RIGHT (WEST), RANDALL ISLAND ROAD, MARKED WITH A SIGN FOR GREENE AND HEMLEY INC ORCHARDS. TURN RIGHT AND GO WESTERLY THROUGH THE ORCHARD TOWARDS THE PACKAGING PLANT, THEN TURN RIGHT AND GO NORTHERLY AROUND THE PLANT TO THE TOP OF THE LEVEE, THEN CONTINUE SOUTHWESTERLY ALONG RANDALL ISLAND ROAD TO THE STATION ON THE RIGHT, ACROSS FROM THE STILLWATER ORCHARDS HEADQUARTERS ON THE LEFT.

THE STATION IS A CGS TRIANGULATION STATION DISK SET IN THE TOP OF A 1 FT (0.3 M) SQUARE CONCRETE MONUMENT, RECESSED 0.45 FT (0.14 M) BELOW GROUND, AND IS 65.8 FT (20.1 M) NORTH-NORTHEAST OF THE NORTHEAST END OF A 3-FT HIGH CONCRETE RETAINING WALL, 23 FT (7.0 M) NORTHWEST OF THE CENTERLINE OF THE LEVEE ROAD, 13 FT (4.0 M) SOUTHWEST OF A PROJECTION OF THE CENTERLINE OF A PAVED ROAD SIDE ROAD LEADING SOUTHEAST, 7 FT (2.1 M) SOUTHEAST OF THE TOP EDGE OF THE LEVEE, 5.8 FT (1.8 M) EAST OF A 2-INCH DIAMETER GALVANIZED PIPE SIGNPOST (WITH A CARSONITE WITNESS POST TAPED TO IT), AND ABOUT 0.5 FT (0.2 M) LOWER THAN THE LEVEE ROAD. THE STATION WAS OCCUPIED AS PART OF THE SAN JOAQUIN-SACRAMENTO RIVER DELTA GPS/VERTICAL PROJECT.

RECOVERED IN GOOD CONDITION AS DESCRIBED, EXCEPT THAT THE MARK IS 13.6 FT (4.1 M) NORTHEAST OF THE 2 INCH (5 CM) GALVANIZED STEEL SIGN POST AND THE CARSONITE WITNESS POST IS GONE.

Appendix K – Station Descriptions

COY2

THE MARK IS LOCATED ABOUT 7.5 MI (12.1 KM) SOUTHEAST OF WOODLAND AND ABOUT 4 MI (6.4 KM) NORTHEAST OF DAVIS AT THE COUNTY OF YOLO LANDFILL.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 80 AND MACE BOULEVARD IN EASTERN DAVIS, GO NORTH ON MACE BOULEVARD FOR 0.2 MI (0.3 KM) TO THE INTERSECTION OF ROAD 32A. TURN RIGHT AND GO EAST ON ROAD 32A FOR 1.1 MI (1.8 KM) TO A SIDE ROAD LEFT, ROAD 105. TURN LEFT AND GO NORTH ON ROAD 105, FOR 2.2 MI (3.5 KM) TO THE END OF ROAD 105 AND A SIDE ROAD LEFT, ROAD 28H, ON THE NORTH SIDE OF WILLOW SLOUGH BYPASS. TURN LEFT AND GO WEST ON ROAD 28H FOR 0.9 MI (1.4 KM) TO THE ENTRANCE TO THE YOLO COUNTY LANDFILL ON THE RIGHT. TURN RIGHT AND GO NORTH INTO THE LANDFILL COMPOUND FOR ABOUT 30 M (98.4 FT) TO A PAVED SIDE ROAD LEFT. TURN LEFT AND GO WEST FOR ABOUT 200 FT (61.0 M) TO THE STATION ON THE RIGHT.

THIS MARK WAS SET AS AN OFFSET TO COY DUMP (PID AI5059), WHICH IS NOT CURRENTLY USABLE FOR SATELLITE OBSERVATIONS DUE TO THE LONG-TERM PRESENCE OF A BOX SEMI-TRAILER PARKED IMMEDIATELY SOUTH OF COY DUMP. THE MARK IS A 1 INCH (25 MM) COPPER DISK SET IN THE TOP OF A CONCRETE BASE OF MONITORING WELL OW1. IT IS 1.3 FT (0.4 M) NORTH OF THE STEEL WELL PROTECTIVE CASING, 3.6 FT (1.1 M) WEST OF A 6 INCH (15 CM) STEEL GUARD POST, 4.5 FT (1.4 M) EAST OF A 6 INCH (15 CM) STEEL GUARD POST AND 8.3 FT (2.5 M) SOUTH-SOUTHEAST OF MONITORING WELL DW1.

CVAP 02

THE STATION IS LOCATED ABOUT 7 MI (11.3 KM) NORTHWEST OF KNIGHTS LANDING, ABOUT 4 MI (6.4 KM) NORTHEAST OF ZAMORA, ALONG THE NORTHEAST SIDE OF THE COLUSA BASIN DRAINAGE CANAL.

TO REACH THE STATION FROM THE INTERSECTION OF STATE HIGHWAY 113 AND STATE HIGHWAY 45 WHERE IT BEGINS IN KNIGHTS LANDING, GO NORTHWESTERLY ON HIGHWAY 45 FOR ABOUT 6.0 MI (9.7 KM) TO A SIDE ROAD LEFT, COUNTY ROAD E11, ROAD 98A. CONTINUE NORTHWESTERLY ON HIGHWAY 45 FOR ABOUT 4.0 MI (6.4 KM) TO A PAVED SIDE ROAD LEFT, ROAD 95B, WHERE HIGHWAY 45 MAKES A 90 DEGREE TURN TO THE NORTH. TURN LEFT AND GO SOUTH ON ROAD 95B FOR 3.05 MI (4.91 KM) TO THE END OF ROAD 95B JUST BEFORE REACHING THE DRAINAGE CANAL LEVEE AND THE STATION ON THE RIGHT.

THE STATION IS A STANDARD USGS DISK. IT IS 16.2 M (53.1 FT) NORTH OF THE CENTERLINE OF A DIRT ROAD AT THE BASE OF THE LEVEE, 14.2 M (46.6 FT) WEST OF THE CENTERLINE OF ROAD 95B, 8.9 M (29.2 FT) SOUTHEAST OF A ROAD END SIGN, 6.3 M (20.7 FT) SOUTH-SOUTHWEST OF THE SOUTHEAST CORNER OF A CHAIN LINK FENCE CORNER (THE FENCE SURROUNDS A SMALL BUILDING) AND 0.8 M (2.6 FT) EAST OF A CARSONITE WITNESS POST.

RECOVERED AS DESCRIBED EXCEPT THAT THE ROAD END SIGN AND THE CARSONITE WITNESS POST ARE GONE.

Appendix K – Station Descriptions

DAVEPORT

DESCRIBED BY NATIONAL GEODETIC SURVEY 1987 (MRM) THE STATION IS LOCATED ABOUT 3.2 KM (2 MI) SOUTHWEST OF DAVIS, 1.6 KM (1 MI) WEST OF STATE HIGHWAY 113, AT THE UNIVERSITY AIRPORT. OWNERSHIP--UNIVERSITY OF CALIFORNIA, DAVIS CA 95616, PHONE 916-752-6608, BILL MATHENY - AIRPORT SERVICES SUPERVISOR, UNIVERSITY AIRPORT, DAVIS CA 95616, PHONE 752-0100.

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 113 AND HUTCHINSON DRIVE JUST WEST OF THE UNIVERSITY, GO WEST FOR 2.3 KM (1.4 MI) ON HUTCHINSON DRIVE TO HOPKINS ROAD. TURN LEFT AND GO SOUTH FOR 0.7 KM (0.45 MI) ON HOPKINS ROAD TO A SIDE ROAD LEFT. TURN LEFT AND GO NORTHEAST FOR 0.2 KM (0.1 MI) ON AIRPORT ROAD TO A DIRT PARKING AREA AND AIRPORT. TURN RIGHT AND GO SOUTH FOR 0.1 KM (0.05 MI) TO A BRICK WALL AND OPEN GATE. PASS THROUGH GATE AND GO SOUTH FOR 0.1 KM (0.05 MI) ACROSS PAVEMENT TO AN OPEN AREA. TURN LEFT AND GO EAST FOR 0.2 KM (0.1 MI) THROUGH THE TIE DOWN AREA TO A TAXIWAY. TURN LEFT AND GO NORTH FOR 0.2 KM (0.15 MI) TO THE STATION ON THE LEFT.

THE STATION IS A PUNCH MARK ON TOP OF A STAINLESS STEEL ROD THAT IS ---UNSTAMPED---, DRIVEN TO A DEPTH OF 10.4 METERS (34 FT) RECESSED 10 CM BELOW GROUND INSIDE A GREASE-FILLED SLEEVE EXTENDING TO A DEPTH OF 0.9 METERS (3 FT) ENCASED IN A PVC PIPE WITH NGS LOGO FLANGE STAMPED ---DAVEPORT 1987---, FLUSH WITH GROUND. LOCATED 27.4 METERS (89.89 FT) WEST FROM THE APPROXIMATE CENTER OF TAXIWAY, 25.6 METERS (84.0 FT) SOUTH FROM THE APPROXIMATE CENTER OF PAVED ACCESS TO TAXIWAY AND 0.9 METERS (2.95 FT) WEST FROM A CARSONITE WITNESS POST.

DRAIN

THE STATION IS LOCATED ABOUT 8 MI (12.9 KM) NORTH OF ZAMORA AND ABOUT 4 MI (6.4 KM) NORTHEAST OF DUNNIGAN ALONG THE COLUSA/YOLO COUNTY LINE ROAD AT THE COLUSA BASIN DRAINAGE CANAL.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 5 AND ROAD 1, THE COLUSA/YOLO COUNTY LINE ROAD, ABOUT 3.5 MI (5.6 KM) NORTH OF DUNNIGAN, GO EAST ON COUNTY LINE ROAD FOR ABOUT 4.8 MI (7.7 KM) TO THE DRAINAGE CANAL AND THE STATION ON THE RIGHT.

THE STATION IS A 2 IN YOLO COUNTY DISK SET IN THE SOUTHEAST QUADRANT OF A 1.0 M (3.3 FT) BY 1.0 M (3.3 FT) CONCRETE ABUTMENT AT THE SOUTH SIDE OF COUNTY LINE ROAD AND ON THE WEST SIDE OF THE CANAL. IT IS ABOUT 35 M (114.8 FT) EAST OF THE CENTERLINE OF THE CANAL, 4.8 M (15.7 FT) SOUTH OF THE CENTERLINE OF COUNTY LINE ROAD, 2.8 M (9.2 FT) WEST OF THE CENTERLINE OF A LEVEE ROAD ALONG THE EAST SIDE OF THE CANAL, 0.75 M (2.46 FT) WEST OF A CARSONITE WITNESS POST AND LEVEL WITH THE ROAD.

Appendix K – Station Descriptions

DUFOUR

THE STATION IS LOCATED ABOUT 7.5 MI (12.1 KM) NORTHWEST OF WOODLAND AND ABOUT 3 MI (4.8 KM) SOUTHEAST OF ZAMORA.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 5 AND ROAD 17, ABOUT 0.3 MI (0.5 KM) NORTHWEST OF THE COMMUNITY OF YOLO, GO EAST ON ROAD 17 FOR 0.15 MI (0.24 KM) TO THE INTERSECTION OF COUNTY ROAD 99W. TURN LEFT AND GO NORTHWEST ON ROAD 99W FOR 2.15 MI (3.46 KM) TO THE INTERSECTION OF ROAD 96. CONTINUE NORTHWEST ON ROAD 99W FOR 0.4 MI (0.6 KM) TO THE STATION ON THE RIGHT ACROSS THE RAILROAD TRACKS. (OR, FROM THE INTERSECTION OF ROAD 96 CONTINUE NORTHWEST ON ROAD 99W FOR 0.2 MI (0.3 KM) TO A DIRT SIDE ROAD RIGHT. TURN RIGHT AND GO NORTHEAST ON THE DIRT SIDE ROAD, CROSSING OVER A RAILROAD TRACK. TURN LEFT AFTER CROSSING THE TRACK AND FOLLOW A DIRT ROAD ALONG THE NORTHEAST SIDE OF THE TRACK FOR 0.2 MI (0.3 KM) TO THE STATION ON THE LEFT.

THE STATION IS A STANDARD COAST AND GEODETIC SURVEY TRIANGULATION DISK. IT IS 39.2 M (128.6 FT) WEST-NORTHWEST OF A WELL HEAD PUMP, 30.0 M (98.4 FT) NORTHEAST OF THE CENTERLINE OF ROAD 99W, 26.5 M (86.9 FT) EAST OF A TELEPHONE POLE (THE TELEPHONE LINE IS ABOUT 3 M (9.8 FT) NORTHEAST OF A POWER LINE), 3.0 M (9.8 FT) SOUTHWEST OF THE DIRT ROAD AND 2.8 M (9.2 FT) SOUTHEAST OF A METAL WITNESS POST.

EX 1

THE STATION IS LOCATED ABOUT 8 MI (12.9 KM) NORTHEAST OF DAVIS AND ABOUT 6 MI (9.7 KM) SOUTHEAST OF WOODLAND NEAR THE WEST SIDE OF THE YOLO BYPASS AND ON THE PROPERTY OF THE CONAWAY RANCH.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 5 AND COUNTY ROAD E8, ROAD 102, ABOUT 2 MI (3.2 KM) EAST OF WOODLAND, GO SOUTH ON ROAD E8 FOR ABOUT 1.8 MI (2.9 KM) TO A SIDE ROAD LEFT, ROAD 25. TURN LEFT AND GO EAST ON ROAD 25 FOR ABOUT 3.5 MI (5.6 KM) TO THE END OF ROAD 25 AND THE LEVEE ON THE WEST SIDE OF THE YOLO BYPASS. TURN RIGHT AND GO SOUTHEAST ALONG THE LEVEE ROAD FOR ABOUT 0.05 MI (0.08 KM) TO A DIRT SIDE ROAD RIGHT. TURN RIGHT AND GO WEST ON THE DIRT ROAD, OFF THE LEVEE, FOR ABOUT 0.05 MI (0.08 KM) AND THE STATION ON THE LEFT.

THE STATION IS A 2 1/4 IN BRONZE DISK SET APPROXIMATELY AT GROUND LEVEL AND INSIDE A 6 IN PVC PIPE THAT PROJECTS ABOUT 0.25 M (0.82 FT) ABOVE GROUND. THE STATION IS ABOUT 0.1 MI (0.2 KM) EAST OF A POWER TRANSMISSION LINE, 24.2 M (79.4 FT) SOUTH OF THE SOUTHWEST CORNER OF A 3.0 M (9.8 FT) BY 3.0 M (9.8 FT) METAL BUILDING WHICH HOUSES THE CA DWR EXTENSOMETER, 1.3 M (4.3 FT) NORTH OF A METAL WITNESS POST, 1.2 M (3.9 FT) SOUTH OF ANOTHER METAL WITNESS POST AND AT THE WEST END OF A DITCH.

Appendix K – Station Descriptions

F 859 RESET

THE STATION IS LOCATED ABOUT 0.4 MI (0.6 KM) SOUTHWEST OF THE TOWN OF KNIGHTS LANDING IN THE BRIDGE OVER KNIGHTS LANDING RIDGE CUT.

TO REACH THE STATION FROM THE INTERSECTION OF STATE HIGHWAY 113, LOCUST AVENUE, AND COUNTY ROAD E8, ROAD 102, ABOUT 0.4 MI (0.6 KM) SOUTHWEST OF KNIGHTS LANDING, GO NORTHEAST ON HIGHWAY 113 FOR ABOUT 0.05 MI (0.08 KM) TO THE STATION ON THE LEFT IN THE SOUTHWEST CORNER OF THE BRIDGE.

THE STATION IS ABOUT 96 M (315.0 FT) NORTHEAST OF THE INTERSECTION OF HIGHWAY 113 AND ROAD E8, 6.7 M (22.0 FT) NORTHWEST OF THE CENTERLINE OF HIGHWAY 113, 4.6 M (15.1 FT) NORTHEAST OF THE SOUTHWEST END OF THE BRIDGE, 0.2 M (0.7 FT) SOUTHEAST OF THE BRIDGE WALL AND SET IN THE SIDEWALK OVER THE BRIDGE ABUTMENT.

FERRY

THE STATION IS LOCATED ON THE WEST LEVEE OF THE SACRAMENTO RIVER, ABOUT 11 MI (17.7 KM) NORTHWEST OF SACRAMENTO, 7 MI (11.3 KM) EAST OF WOODLAND AND 2 MI (3.2 KM) WEST OF SACRAMENTO INTERNATIONAL AIRPORT.

TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE HIGHWAY 5 AND STATE HIGHWAY 113 (SOUTH) IN WOODLAND, GO SOUTH (EAST) ON INTERSTATE 5 FOR 6.4 MI (10.3 KM) TO THE ROAD 22 OFF-RAMP. TAKE THE OFF-RAMP EAST AND SOUTH FOR 0.2 MI (0.3 KM) TO A T-INTERSECTION WITH ROAD 118. TURN LEFT AND GO EAST ON ROAD 118 FOR 0.5 MI (0.8 KM) TO A T-INTERSECTION WITH OLD RIVER ROAD (ROAD 22). TURN LEFT AND GO NORTH ON OLD RIVER ROAD, PASSING UNDER INTERSTATE 5, FOR 0.2 MI (0.3 KM) TO A SIDE ROAD RIGHT, ROAD 117. TURN RIGHT AND GO EAST AND NORTH ON ROAD 117 FOR 0.1 MI (0.2 KM) TO TOP OF THE SACRAMENTO RIVER LEVEE AND THE STATION ON THE RIGHT.

THE STATION IS LOCATED IN A GATED FACILITY. ACCESS CAN BE OBTAINED BY CONTACTING THE WOODLAND-DAVIS CLEAN WATER AGENCY OFFICE AT (530) 379-4027.

THE MARK IS APPROXIMATELY 2 FT (0.6 M) BELOW THE FINISHED SURFACE OF A PARKING LOT. A 12-INCH (30 CM) PVC PIPE HAS BEEN PLACED AROUND THE MARK TO ALLOW ACCESS FROM THE SURFACE AND A TRAFFIC-RATED COVER IS INSTALLED AT THE PAVEMENT SURFACE.

Appendix K – Station Descriptions

FORD RM 2

THE STATION IS LOCATED ABOUT 5 MI (8.0 KM) SOUTH OF KNIGHTS LANDING AND ABOUT 4 MI (6.4 KM) NORTHEAST OF WOODLAND WHERE COUNTY ROAD E8 CROSSES CACHE CREEK.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 5 AND COUNTY ROAD E8, ROAD 102, GO NORTH ON ROAD E8 FOR 3.85 MI (6.20 KM) TO A SIDE ROAD RIGHT, A LEVEE ROAD, AND THE STATION ON THE RIGHT ALONG THE SOUTH SIDE OF CACHE CREEK.

THE STATION IS A CALIFORNIA DEPARTMENT OF HIGHWAYS DISK. IT IS 25.5 M (83.7 FT) EAST OF, AND ACROSS ROAD E8 FROM TRIANGULATION STATION FORD 1974, 10.6 M (34.8 FT) EAST OF THE CENTERLINE OF ROAD E8, 9.8 M (32.2 FT) SOUTHEAST OF THE SOUTHEAST END OF A GUARDRAIL ALONG THE EAST SIDE OF THE CREEK, 4.15 M (13.62 FT) WEST OF A 6 IN IRON PIPE SUPPORTING THE NORTH END OF A GATE LEADING TO THE LEVEE ROAD, 3.6 M (11.8 FT) SOUTH-SOUTHWEST OF A CARSONITE WITNESS POST, 2.6 M (8.5 FT) NORTH OF THE CENTERLINE OF THE LEVEE ROAD, SET IN A MASS OF CONCRETE AND ABOUT 0.6 M (2.0 FT) LOWER THAN THE ROAD.

FRE3

THE MARK IS LOCATED ABOUT 10 MI (16.1 KM) NORTHEAST OF WOODLAND, ABOUT 5 MI (8.0 KM) SOUTHEAST OF KNIGHTS LANDING AND AT THE EASTERN END OF THE FREMONT WEIR.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 5 AND COUNTY ROAD E8, ROAD 102, ABOUT 2 MI (3.2 KM) EAST OF WOODLAND, GO EAST ON HIGHWAY 5 FOR ABOUT 5 MI (8.0 KM) TO THE ROAD 22 OFF-RAMP. TAKE THE OFF-RAMP EAST AND THEN SOUTH FOR ABOUT 0.2 MI (0.3 KM) TO A T-INTERSECTION, ROAD 118. TURN LEFT AND GO EAST FOR 0.5 MI (0.8 KM) TO A T-INTERSECTION, OLD RIVER ROAD. TURN LEFT AND GO NORTHWEST ON OLD RIVER ROAD, PASSING UNDER HIGHWAY 5, FOR 0.2 MI (0.3 KM) TO A SIDE ROAD RIGHT, ROAD 117. TURN RIGHT AND GO NORTHERLY ON ROAD 117, FOLLOWING THE WEST BANK OF THE SACRAMENTO RIVER, FOR ABOUT 6 MI (9.7 KM) TO A DIRT SIDE ROAD LEFT, ROAD 16. TURN LEFT AND GO WEST ON ROAD 16 FOR 1.1 MI (1.8 KM) TO THE INTERSECTION OF A DIRT FARM ROAD ON THE WEST SIDE OF A DRAINAGE DITCH. CONTINUE WEST FOR 0.9 MI (1.4 KM) TO A FORK AT THE BASE OF A LEVEE. TURN RIGHT AND GO NORTH FOR ABOUT 0.1 MI (0.2 KM) TO THE TOP OF THE LEVEE AND A GATE. THE GATE MAY BE LOCKED. THE LOCK IS A STANDARD CALIFORNIA DEPARTMENT OF WATER RESOURCES PADLOCK. CONTINUE NORTH ON THE LEVEE FOR ABOUT 1.1 MI (1.8 KM) TO THE STATION ON THE RIGHT.

THE STATION IS AN OFFSET TO STATION FREMONT (PID AI5063) THAT IS NO LONGER SUITABLE FOR SATELLITE OBSERVATIONS DUE TO TREE GROWTH. THE STATION IS A 1/2 INCH (13 MM) X 24 IN REBAR DRIVEN FLUSH. IT IS 200 FT (61.0 M) SOUTH OF THE SOUTHWESTERLY POST OF A LEVEE GATE, 14.0 FT (4.3 M) EAST OF THE CENTERLINE OF THE LEVEE ROAD AND 1.0 FT (0.3 M) NORTH OF A FIBERGLASS WITNESS POST.

Appendix K – Station Descriptions

GUINDA

THE STATION IS LOCATED IN YOLO COUNTY NEAR GUINDA, ABOUT 27.6 KM SOUTHEAST OF THE JUNCTION OF STATE HIGHWAY 16 AND STATE HIGHWAY 20 IN COLUSA COUNTY, 24.3 KM NORTHWEST OF ESPARTO, AND 21.4 KM WEST OF DUNNIGAN.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE 505 AND STATE HIGHWAY 16 IN YOLO COUNTY, PROCEED 20 KM WESTERLY ON STATE HIGHWAY 16 TO CACHE CREEK CASINO ON THE RIGHT. CONTINUE 15.2 KM NORTHERLY ON STATE HIGHWAY 16 TO THE STATION ON THE LEFT AT HIGHWAY POST MILE 9.93.

THE STATION IS A 3/4 IN ALUMINUM ALLOY ROD DRIVEN TO REFUSAL, WITH A CADT/CSRC ALUMINUM SURVEY DISK AFFIXED, SET IN A 6 IN DIAMETER PVC WELL CASING WITH AN ALUMINUM ACCESS COVER. THE STATION LIES 32.3 M SOUTH OF POWER POLE NO. 7917, 25.9 M NORTH OF THE CENTERLINE OF DRIVEWAY TO HOUSE NO.'S 5960/5966, 7.4 M WEST OF THE EDGE OF PAVEMENT OF THE HIGHWAY, 1.6 M EAST OF A WIRE MESH R/W FENCE, 1.0 M EAST OF A METAL GUARD POST, AND 0.3 M LOWER THAN THE ROAD. THIS STATION WAS OCCUPIED AS PART OF A CALTRANS NORTH REGION OFFICE OF SURVEYORS GPS HEIGHT MODERNIZATION PROJECT.

GAF2

THE STATION IS ABOUT 13 MI (20.9 KM) SOUTHWEST OF SACRAMENTO AND ABOUT 3 MI (4.8 KM) WEST OF CLARKSBURG.

TO REACH THE STATION FROM THE INTERSECTION OF SOUTH RIVER ROAD AND CLARKSBURG ROAD (COUNTY ROAD E19) IN CLARKSBURG, GO WEST ON CLARKSBURG ROAD FOR ABOUT 3.0 MI (4.8 KM) TO THE INTERSECTION OF STATE HIGHWAY 84. TURN LEFT AND GO SOUTH ON HIGHWAY 84 FOR 0.45 MI (0.72 KM) TO THE INTERSECTION OF GAFFNEY ROAD. TURN LEFT AND GO EAST ON GAFFNEY ROAD FOR ABOUT 0.05 MI (0.08 KM) TO THE STATION ON THE LEFT (NORTH) SIDE OF THE ROAD.

THIS MARK WAS SET IN 2016 AS AN OFFSET TO STATION GAFFNEY (PID AI9851), WHICH IS NO LONGER SUITABLE FOR SATELLITE OBSERVATIONS DUE TO TREE GROWTH. THE MARK IS A FOUR FOOT ALUMINUM ROD WITH A YOLO SUBSIDENCE NETWORK DISK. IT IS ABOUT 150 FT (45.7 M) EAST OF THE CENTERLINE OF HIGHWAY 84, 14.0 FT (4.3 M) NORTH OF THE CENTERLINE OF GAFFNEY ROAD AND 1.0 FT (0.3 M) EAST OF A FIBERGLASS WITNESS POST. IT IS 46.2 FT (14.1 M) NORTHWEST OF STATION GAFFNEY.

Appendix K – Station Descriptions

GWM 17

THE STATION IS LOCATED ABOUT 8 MI (12.9 KM) WEST OF ZAMORA AND ABOUT 5 MI (8.0 KM) NORTH OF CAPAY.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 505 AND STATE HIGHWAY 16, ABOUT 0.5 MI (0.8 KM) EAST OF MADISON, GO NORTHWESTERLY ON HIGHWAY 16 FOR ABOUT 5 MI, (8.0 KM) PASSING THROUGH THE TOWN OF ESPARTO, TO A SIDE ROAD RIGHT, COUNTY ROAD E4, ROAD 85, IN THE TOWN OF CAPAY. TURN RIGHT AND GO NORTH ON ROAD E4 FOR ABOUT 5 MI (8.0 KM) TO THE INTERSECTION OF COUNTY ROAD E10, ROAD 14, AND THE STATION ON THE LEFT IN THE NORTHWEST QUADRANT OF THE INTERSECTION.

THE STATION IS 11.3 M (37.1 FT) NORTH OF THE CENTERLINE OF ROAD E10, 5.2 M (17.1 FT) WEST OF THE CENTERLINE OF ROAD E4, 5.0 M (16.4 FT) NORTH OF A TELEPHONE POLE, 3.7 M (12.1 FT) NORTH OF A FENCE CORNER, 1.0 M (3.3 FT) NORTH OF A CARSONITE WITNESS POST AND SET IN THE FENCE LINE.

GWM 32

THE STATION IS LOCATED ABOUT 22 MI (35.4 KM) WEST-NORTHWEST OF WOODLAND AND ABOUT 1.0 MI (1.6 KM) WEST OF THE TOWN OF BROOKS.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 505 AND STATE HIGHWAY 16, ABOUT 0.5 MI (0.8 KM) EAST OF MADISON, GO WESTERLY ON HIGHWAY 16 FOR ABOUT 5 MI (8.0 KM) PASSING THROUGH THE TOWN OF ESPARTO, TO THE TOWN OF CAPAY AND A SIDE ROAD RIGHT, COUNTY ROAD E4. CONTINUE WEST AND THEN NORTHWEST ON HIGHWAY 16 FOR ABOUT 7.0 MI (11.3 KM) TO A SIDE ROAD LEFT, ROAD 78, IN BROOKS. TURN LEFT AND GO WEST ON ROAD 78 FOR 1.0 MI (1.6 KM) AND THE STATION ON THE LEFT.

THE STATION IS ABOUT 21 M (68.9 FT) WEST OF A 3 M (9.8 FT) BY 3 M (9.8 FT) AT AND T TELECOMMUNICATIONS BUILDING, ABOUT 21 M (68.9 FT) WEST OF A TELEPHONE POLE, 12.2 M (40.0 FT) WEST OF THE CENTERLINE OF A GRAVEL DRIVE, 5.6 M (18.4 FT) SOUTH OF THE CENTERLINE OF ROAD 78, 0.7 M (2.3 FT) NORTH OF A FENCE AND ABOUT 0.6 M (2.0 FT) HIGHER THAN THE ROAD.

Appendix K – Station Descriptions

HERSHEY

DESCRIBED BY FRAME SURVEYING AND MAPPING 1999 (JHF) THE STATION IS LOCATED ABOUT 6.5 MI (10.5 KM) NORTHWEST OF ZAMORA AND ABOUT 3 MI (4.8 KM) EAST OF DUNNIGAN ALONG THE COLUSA BASIN DRAINAGE CANAL IN NORTHEAST YOLO COUNTY.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 5 AND COUNTY ROAD 1, COUNTY LINE ROAD, ABOUT 3.5 MI (5.6 KM) NORTHWEST OF DUNNIGAN, GO EAST ON COUNTY LINE ROAD FOR ABOUT 4.8 MI (7.7 KM) TO THE DRAINAGE CANAL AND A LEVEE SIDE ROAD RIGHT ON THE EAST SIDE OF THE CANAL. TURN RIGHT AND GO SOUTH ON THE LEVEE ROAD FOR ABOUT 0.05 MI (0.08 KM) TO A GATE. CONTINUE SOUTH ON THE LEVEE ROAD FOR ABOUT 3.5 MI (5.6 KM) WHERE THE LEVEE ROAD MAKES A SLIGHT TURN TO THE SOUTHEAST. CONTINUE SOUTHEAST ON THE LEVEE ROAD FOR 0.05 MI (0.08 KM) TO THE STATION ON THE LEFT. IT IS ABOUT 0.7 MI (1.1 KM) NORTH OF A POINT WHERE A POWER LINE PASSES OVER THE LEVEE ROAD.

THE STATION IS A YOLO COUNTY DISK SET INSIDE AN ALUMINUM LOGO CAP. IT IS 5.1 M (16.7 FT) NORTHEAST OF THE CENTERLINE OF THE LEVEE ROAD, 1.2 M (3.9 FT) WEST-NORTHWEST OF A CARSONITE POST AND ABOUT 0.3 M (1.0 FT) BELOW THE SURFACE OF THE ROAD.

HPGN CA 03 08

THE STATION IS ABOUT 2 MI (3.2 KM) NORTHWEST OF WOODLAND AT THE INTERSECTION OF INTERSTATE HIGHWAY 5 AND STATE HIGHWAY 16 (COUNTY ROAD E 7).

TO REACH THE STATION FROM THE INTERSECTION OF STATE HIGHWAY 16 AT THE OVERPASS OF HIGHWAY 5, GO SOUTHWEST FOR 0.1 MI (0.2 KM) TO THE STATION ON THE RIGHT IN THE SOUTHWEST END OF THE INTERCHANGE.

THE STATION IS A 2.5 INCH ALUMINUM DISK INSIDE A 6 INCH ALUMINUM ACCESS COVER. LOCATED 148.6 FT (45.3 M) SOUTH-SOUTHWEST OF THE CENTERLINE OF THE SOUTHBOUND EXIT RAMP OF HIGHWAY 5, 62.8 FT (19.1 M) NORTHWEST OF THE CENTERLINE OF HIGHWAY 16, 52.1 FT (15.9 M) NORTHEAST OF THE CENTERLINE OF A PAVED ROAD LEADING NORTH, 5.9 FT (1.8 M) SOUTHEAST OF THE END OF A BARBED WIRE FENCE, 1.2 FT (0.4 M) SOUTHEAST OF A FIBERGLASS WITNESS POST AND 1.4 FT (0.4 M) SOUTHEAST OF THE SOUTHEAST CORNER OF A 2.7 FT (0.8 M) BY 3.5 FT (1.1 M) CONCRETE ELECTRICAL BOX PAD.

Appendix K – Station Descriptions

HPGN D CA 03 BG

THE STATION IS LOCATED ON THE EAST LEVEE OF THE SACRAMENTO RIVER DEEP WATER SHIP CHANNEL, ABOUT 9 MI (14.5 KM) EAST-SOUTHEAST OF DAVIS AND 5 MI (8.0 KM) SOUTH OF WEST SACRAMENTO.

TO REACH THE STATION FROM THE U.S. HIGHWAY 50/JEFFERSON BLVD INTERCHANGE IN WEST SACRAMENTO, GO SOUTH ON JEFFERSON BLVD FOR 1.2 MI (1.9 KM) TO THE HIGHWAY BRIDGE OVER THE YOLO BARGE CANAL. CONTINUE SOUTH AND SOUTHWEST ON JEFFERSON BLVD FOR 4.8 MI (7.7 KM) TO A SIDE ROAD RIGHT, THE LEVEE ROAD ON THE EAST SIDE OF THE SACRAMENTO RIVER DEEP WATER SHIP CHANNEL. TURN RIGHT AND GO NORTH ON THE LEVEE ROAD FOR ABOUT 150 FT (45.7 M) TO A GATE ACROSS THE ROAD AND THE STATION ON THE RIGHT.

THE STATION IS A SURVEY DISK ENCASED IN PVC PIPE WITH ACCESS COVER SET IN CONCRETE FLUSH WITH THE GROUND, ABOUT 700 FT (213.4 M) EAST OF THE CENTER OF THE SACRAMENTO RIVER DEEP WATER SHIP CHANNEL, 149 FT (45.4 M) NORTHWEST OF THE CENTERLINE OF JEFFERSON BLVD, 42.5 FT (13.0 M) SOUTH OF A POWER POLE, 33 FT (10.1 M) EAST OF THE CENTER OF THE LEVEE ROAD, 8 FT (2.4 M) WEST OF THE EAST EDGE OF THE TOP OF THE LEVEE AND LEVEL WITH THE TOP OF THE LEVEE, 21.6 FT (6.6 M) EAST OF THE EASTERN CONCRETE BLOCK GATE PILLAR, 16.5 FT (5.0 M) FT OF A PETROLEUM PIPELINE MARKER AND 5.1 FT (1.6 M) SOUTHEAST OF A WROUGHT IRON FENCE.

HPGN D CA 03 DG

THE STATION IS LOCATED AT THE STATE HIGHWAY 113/ROAD 25A INTERCHANGE, ABOUT 7 MI (11.3 KM) NORTH OF DAVIS AND 3 MI (4.8 KM) SOUTH OF WOODLAND.

TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE HIGHWAY 5 AND STATE HIGHWAY 113 (SOUTH) IN WOODLAND, GO SOUTH ON HIGHWAY 113 FOR 2.9 MI (4.7 KM) TO THE ROAD 25A OFF-RAMP. TAKE THE OFF-RAMP SOUTH FOR 0.3 MI (0.5 KM) TO THE INTERSECTION WITH ROAD 25A. TURN LEFT AND GO EAST ON ROAD 25A FOR ABOUT 225 FT (68.6 M) TO THE STATION ON THE RIGHT.

THE STATION IS A SURVEY DISK ENCASED IN PVC PIPE WITH ACCESS COVER SET IN CONCRETE FLUSH WITH THE GROUND, 190.5 FT (58.1 M) WEST OF THE WEST END OF THE SOUTH CONCRETE BRIDGE RAILING OF THE ROAD 25A OVERCROSSING, 61.5 FT (18.7 M) WEST OF AN OVERSIDE DRAIN PIPE, 30.3 FT (9.2 M) SOUTH OF THE CENTERLINE OF ROAD 25A, 9.5 FT (2.9 M) SOUTHEAST OF THE WEST END OF THE METAL GUARD RAIL ON THE SOUTH SIDE OF ROAD 25A, 7.5 FT (2.3 M) SOUTH OF THE GUARD RAIL, 3.0 FT (0.9 M) NORTH OF A CARSONITE WITNESS POST AND LEVEL WITH ROAD 25A. THIS STATION WAS OCCUPIED AS PART OF A CALIFORNIA HPGN DENSIFICATION SURVEY.

Appendix K – Station Descriptions

JIMENO RM 4

THE STATION IS LOCATED ABOUT 11 MI (17.7 KM) NORTHWEST OF KNIGHTS LANDING, ABOUT 7.5 MI (12.1 KM) NORTHEAST OF DUNNIGAN AND 0.2 MI (0.3 KM) NORTH OF THE YOLO/COLUSA COUNTY LINE.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 5 AND COUNTY ROAD 1, COUNTY LINE ROAD, ABOUT 3.5 MI (5.6 KM) NORTHWEST OF DUNNIGAN, GO EAST ON COUNTY LINE ROAD FOR 4.8 MI (7.7 KM) TO THE COLUSA BASIN DRAINAGE CANAL. CONTINUE EAST ON COUNTY LINE ROAD, THE ROAD TURNS TO GRAVEL AT THE CANAL, FOR ABOUT 4 MI (6.4 KM) TO A T-INTERSECTION, STATE HIGHWAY 45. TURN LEFT AND GO NORTH ON HIGHWAY 45 FOR 0.2 MI (0.3 KM) TO A DIRT SIDE ROAD RIGHT, AN IRRIGATION CANAL AND THE STATION ON THE RIGHT.

THE STATION IS SET IN THE SOUTHEAST HEADWALL FOR THE IRRIGATION CANAL, 25.6 M (84.0 FT) EAST OF THE CENTERLINE OF HIGHWAY 45, 3.0 M (9.8 FT) NORTH OF THE CENTERLINE OF THE DIRT ROAD, 1.5 M (4.9 FT) EAST OF A CARSONITE WITNESS POST AND ABOUT 1.0 M (3.3 FT) HIGHER THAN THE HIGHWAY.

KEATON

THE STATION IS LOCATED ABOUT 6.3 MI NORTHWEST OF WOODLAND AND ABOUT 5 MI (8.0 KM) NORTHEAST OF WOODLAND.

TO REACH THE STATION FROM THE INTERSECTION OF MAIN STREET, STATE HIGHWAY 16, AND COUNTY ROAD 98 IN WOODLAND, GO WEST ON HIGHWAY 16 FOR 2.8 MI (4.5 KM) WHERE THE ROAD CURVES LEFT, SOUTHWEST, AND THE INTERSECTION OF ROAD 22, STRAIGHT AHEAD. CONTINUE WEST ON ROAD 22 FOR 0.8 MI (1.3 KM) TO A T-INTERSECTION, COUNTY ROAD 94B. TURN RIGHT AND GO NORTHEAST ON ROAD 94B FOR 1.9 MI (3.1 KM) TO A SIDE ROAD LEFT, ROAD 19. TURN LEFT AND GO NORTHWEST ON ROAD 19 FOR 1.4 MI (2.3 KM) TO THE STATION ON THE RIGHT.

THE STATION IS A 2 IN YOLO COUNTY DISK SET IN THE TOP OF A CONCRETE CULVERT. IT IS 5.9 M (19.4 FT) NORTH OF THE CENTERLINE OF ROAD 19, 1.9 M (6.2 FT) WEST OF THE CENTER OF A 1.5 M (4.9 FT) DIAMETER CULVERT, 0.9 M (3.0 FT) SOUTHEAST OF THE NORTHWEST END OF THE ANGLED HEADWALL AND 0.8 M (2.6 FT) NORTHWEST OF A CARSONITE WITNESS POST.

Appendix K – Station Descriptions

LIBRARY

THE STATION IS LOCATED IN CENTRAL WOODLAND NEAR THE INTERSECTION OF NORTH COLLEGE AND COURT STREETS.

TO REACH THE STATION FROM THE INTERSECTION OF EAST MAIN STREET AND EAST STREET IN DOWNTOWN WOODLAND GO WEST ON EAST MAIN STREET FOR 0.5 MI (0.8 KM) TO THE INTERSECTION OF NORTH COLLEGE STREET. TURN RIGHT AND GO NORTH ON NORTH COLLEGE STREET FOR 0.1 MI (0.2 KM) TO THE INTERSECTION OF COURT STREET AND THE STATION IN THE NORTHEAST QUADRANT OF THE INTERSECTION IN THE ROSE GARDEN OF THE WOODLAND LIBRARY.

THE STATION IS A 2 1/2 IN YOLO COUNTY DISK SET INSIDE AN ALUMINUM LOGO CAP. IT IS ABOUT 45 M (147.6 FT) SOUTH-SOUTHWEST OF THE SOUTHWEST CORNER OF THE LIBRARY, 18.5 M (60.7 FT) EAST OF THE CENTERLINE OF COLLEGE STREET, 18.2 M (59.7 FT) NORTH OF THE CENTERLINE OF COURT STREET, 11.3 M (37.1 FT) NORTH-NORTHEAST OF A TRAFFIC SIGNAL POLE WITH STREET LIGHT, 6.4 M (21.0 FT) NORTHEAST OF THE NORTHEAST CORNER OF A 0.6 M (2.0 FT) BY 0.8 M (2.6 FT) SIGNAL CONTROL BOX, 4.0 M (13.1 FT) SOUTH-SOUTHWEST OF THE CENTER OF A CIRCULAR CONCRETE WALKWAY, 0.2 M (0.7 FT) SOUTHEAST OF THE EDGE OF THE SIDEWALK, ABOUT 3 CM LOWER THAN THE SIDEWALK AND FLUSH WITH THE GROUND SURFACE.

P 1031

THE STATION IS LOCATED ABOUT 3.5 MI (5.6 KM) WEST OF THE SACRAMENTO RIVER AND ABOUT 3 MI (4.8 KM) EAST OF WOODLAND.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 5 AND COUNTY ROAD E8, ROAD 102, ABOUT 2 MI (3.2 KM) EAST OF WOODLAND, GO NORTH ON ROAD E8 FOR 0.2 MI (0.3 KM) TO THE INTERSECTION OF EAST MAIN STREET. TURN RIGHT AND GO EAST ON EAST MAIN STREET FOR 1.0 MI (1.6 KM) TO A PAVED DRIVEWAY ON THE LEFT AT THE ENTRANCE TO THE CITY OF WOODLAND STORM WATER PUMP STATION AT 2395 EAST MAIN STREET. TURN LEFT AND GO NORTH ON THE DRIVEWAY FOR ABOUT 40 M (131.2 FT) TO THE STATION ON THE RIGHT NEAR THE YOLO SHORTLINE RAILROAD TRACK.

THE STATION IS A USC&GS DISK STAMPED P 1031 1959. IT IS 40.5 M (132.9 FT) EAST OF THE CENTERLINE OF THE DRIVEWAY, 39.6 M (129.9 FT) NORTH OF THE CENTERLINE OF EAST MAIN STREET, 2.4 M (7.9 FT) SOUTH OF THE SOUTH RAIL OF THE RAILROAD TRACK AND ABOUT 0.8 M (2.6 FT) LOWER THAN THE TRACK. IT IS SET IN THE SOUTH CONCRETE HEADWALL OF THE AQUEDUCT WHICH RUNS UNDER THE TRACK.

Appendix K – Station Descriptions

P 1075

THE STATION IS LOCATED ABOUT 5 MI (8.0 KM) NORTHWEST OF ZAMORA AND ABOUT 3 MI (4.8 KM) SOUTHEAST OF DUNNIGAN.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 5 AND COUNTY ROAD E10, ROAD 13, JUST EAST OF ZAMORA, GO EAST ON ROAD 13 FOR ABOUT 0.1 MI (0.2 KM) TO THE INTERSECTION OF ROAD 99W. TURN LEFT AND GO NORTHWEST ON ROAD 99W FOR 4.8 MI (7.7 KM) TO THE STATION ON THE RIGHT.

THE STATION IS A USC&GS DISK STAMPED P 1075 1967 SET IN THE TOP OF A CONCRETE CULVERT HEADWALL. IT IS DIRECTLY OPPOSITE AND SOUTHWEST OF A RAILROAD BRIDGE, ABOUT 30 M (98.4 FT) NORTHWEST OF RAILROAD MILEPOST 100, ABOUT 25 M (82.0 FT) NORTHWEST OF A 2 M (6.6 FT) BY 2 M (6.6 FT) FIBERGLASS BUILDING NUMBER 154, 6.8 M (22.3 FT) NORTHEAST OF THE CENTERLINE OF ROAD 99W, 0.85 M (2.79 FT) SOUTHEAST OF A WITNESS POST, 0.7 M (2.3 FT) NORTHWEST OF THE SOUTHEAST END OF THE HEADWALL AND ABOUT 0.2 M (0.7 FT) HIGHER THAN THE ROAD.

PALA

THE STATION IS LOCATED IN YOLO COUNTY IN WEST SACRAMENTO, NEAR THE PORT OF SACRAMENTO, ABOUT 15.8 KM NORTH OF CLARKSBURG, 14.1 KM NORTHWEST OF FLORIN, AND 6.2 KM WEST OF SACRAMENTO.

TO REACH THE STATION FROM THE INTERSECTION OF BUSINESS 80 AND HARBOR BLVD IN WEST SACRAMENTO, PROCEED SOUTH ON HARBOR BLVD 120 M TO HALYARD AVENUE. CONTINUE SOUTH ON HARBOR BLVD 400 M TO DEL MONTE STREET. CONTINUE SOUTH ON HARBOR BLVD 115 M TO INDUSTRIAL AVENUE. TURN LEFT AND PROCEED SOUTHEASTERLY ON INDUSTRIAL AVENUE 760 M TO TERMINAL AVENUE. CONTINUE SOUTHEASTERLY ON INDUSTRIAL AVENUE, CROSSING THE BARGE CANAL, 600 M TO THE SOUTH END OF THE PALAMIDESSI BRIDGE AND THE STATION ON THE LEFT.

THE STATION IS A 2 1/2 IN CADT BRASS SURVEY DISK SET IN THE SOUTH END OF THE EAST CONCRETE SIDEWALK OF THE PALAMIDESSI BRIDGE OVER THE YOLO BARGE CANAL. THE STATION LIES 26.4 M SOUTH OF LIGHT POLE NO. C637, 9.9 M EAST OF THE CENTERLINE OF THE BRIDGE, 4.3 M NORTH OF THE SOUTH END OF THE BRIDGE SIDEWALK, AND 0.8 M WEST OF THE EAST BRIDGE GUARD RAIL. THIS STATION WAS OCCUPIED AS PART OF A CALTRANS NORTH REGION OFFICE OF SURVEYORS GPS HEIGHT MODERNIZATION PROJECT.

Appendix K – Station Descriptions

PLAINFIELD

THE STATION IS LOCATED ABOUT 4 MI (6.4 KM) NORTHWEST OF DAVIS AND ABOUT 2.5 MI (4.0 KM) EAST OF THE YOLO COUNTY AIRPORT.

TO REACH THE STATION FROM THE INTERSECTION OF STATE HIGHWAY 113 AND COVELL BOULEVARD, ABOUT 1.0 MI (1.6 KM) NORTH OF DAVIS, GO WEST ON COVELL BOULEVARD TO THE INTERSECTION OF COUNTY ROAD E7, ROAD 98. TURN RIGHT AND GO NORTH ON ROAD E7 FOR 1.6 MI (2.6 KM) TO THE STATION ON THE LEFT IN THE TOP OF A CONCRETE CULVERT HEADWALL.

THE STATION IS A 2 IN YOLO COUNTY DISK STAMPED PLAINFIELD 1999. IT IS 31.5 M (103.3 FT) SOUTH OF THE EXTENDED CENTERLINE OF A DIRT FARM ROAD ON THE EAST SIDE OF ROAD E7, 27.8 M (91.2 FT) NORTHWEST OF AND ACROSS ROAD E7 FROM A POWER POLE, 8.2 M (26.9 FT) WEST OF THE CENTERLINE OF ROAD E7, 0.9 M (3.0 FT) SOUTH OF A CARSONITE WITNESS POST, 0.7 M (2.3 FT) NORTH OF THE SOUTH END OF A 2 M (6.6 FT) BY 0.3 M (1.0 FT) CONCRETE HEADWALL, AND 41.9 M (137.5 FT) SOUTH OF THE PAVED ENTRY TO A GATED GRAVEL FARM ROAD.

PLEASANT

THE MARK IS LOCATED ABOUT 3.5 MI (5.6 KM) SOUTHWEST OF WINTERS IN YOLO COUNTY.

TO REACH THE STATION FROM THE INTERSECTION OF HIGHWAY 128 AND RAILROAD AVENUE IN WINTERS, GO SOUTHWEST FOR 2.7 MI (4.3 KM) TO A CURVE LEFT. CONTINUE SOUTH, SOUTHWEST AND WEST ON HIGHWAY 128 FOR 1.4 MI (2.3 KM) TO PLEASANTS VALLEY ROAD, A SIDE ROAD LEFT. TURN LEFT AND GO SOUTHWEST ON PLEASANTS VALLEY ROAD FOR 0.1 MI (0.2 KM) TO THE BRIDGE OVER PUTAH CREEK AND THE STATION ON THE RIGHT.

THE STATION IS A MAG NAIL SET IN THE CONCRETE ABUTMENT AT THE NORTH END OF THE BRIDGE. IT IS 16.2 FT (4.9 M) WEST OF THE CENTERLINE OF THE ROAD, 3.1 FT (0.9 M) SOUTH-SOUTHEAST OF A 3.5 INCH (9 CM) U.S. BUREAU OF RECLAMATION BENCH MARK DISK, 3.1 FT (0.9 M) EAST OF THE WEST END OF THE NORTH BRIDGE ABUTMENT, 2.6 FT (0.8 M) EAST OF THE STEEL BRIDGE RAILING, 2.3 FT (0.7 M) WEST OF THE WEST BRIDGE WHEEL GUARD, 1.7 FT (0.5 M) WEST OF A STEEL GUARD RAIL AND 0.7 FT (21 CM) NORTH OF THE SOUTH FACE OF THE NORTH BRIDGE ABUTMENT.

Appendix K – Station Descriptions

RIVER

THE STATION IS LOCATED ABOUT 4.5 MI (7.2 KM) NORTH-NORTHWEST OF WEST SACRAMENTO, ABOUT 3 MI (4.8 KM) SOUTH OF THE SACRAMENTO INTERNATIONAL AIRPORT AND ALONG THE WEST BANK OF THE SACRAMENTO RIVER.

TO REACH THE STATION FROM THE INTERSECTION OF US HIGHWAY 50 AND HARBOR BOULEVARD NEAR THE WEST END OF WEST SACRAMENTO, GO NORTH ON HARBOR BOULEVARD FOR ABOUT 1.15 MI (1.85 KM) TO THE INTERSECTION OF REED AVENUE. CONTINUE NORTH ON HARBOR BOULEVARD FOR ABOUT 0.2 MI (0.3 KM) TO A STOP SIGN, THE END OF HARBOR ROAD, WHERE IT MERGES WITH OLD RIVER ROAD. CONTINUE NORTHWESTERLY ALONG OLD RIVER ROAD FOLLOWING THE WEST SIDE OF THE SACRAMENTO RIVER FOR 4.25 MI (6.84 KM) TO A SMALL GRAVEL LEVEE SIDE ROAD LEFT AND THE STATION ON THE LEFT.

THE STATION IS A 2 1/2 IN YOLO COUNTY DISK SET INSIDE AN ALUMINUM LOGO CAP. IT IS 17.4 M (57.1 FT) SOUTH-SOUTHWEST OF A TWIN TRUNK OAK TREE, 15.3 M (50.2 FT) WEST OF THE CENTERLINE OF OLD RIVER ROAD, 3.2 M (10.5 FT) SOUTH OF THE CENTERLINE OF THE GRAVEL LEVEE ROAD, 1.4 M (4.6 FT) SOUTHEAST OF A 0.15 M (0.49 FT) DIAMETER IRON PIPE WHICH SERVES AS THE SOUTH OF TWO GATE POSTS, 1.0 M (3.3 FT) EAST OF A BARBED WIRE FENCE AND A CARSONITE WITNESS POST SET IN THE FENCE LINE.

RUMSEY

THE STATION IS LOCATED IN YOLO COUNTY NEAR RUMSEY, ABOUT 31 KM EAST OF LOWER LAKE, 31 KM NORTHWEST OF ESPARTO, AND 24.8 KM WEST OF DUNNIGAN.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE 505 AND STATE HIGHWAY 16, PROCEED 6.0 KM WESTERLY ALONG STATE HIGHWAY 16 TO ESPARTO, CONTINUE 36.0 KM WESTERLY ON STATE HIGHWAY 16 TO THE STATION ON THE RIGHT AT HIGHWAY POST MILE 6.15.

THE STATION IS A 3/4 IN ALUMINUM ALLOY ROD DRIVEN TO REFUSAL, WITH A CADT/CSRC ALUMINUM SURVEY DISK STAMPED RUMSEY 2004 AFFIXED, SET IN A 6 IN DIAMETER PVC WELL CASING WITH AN ALUMINUM ACCESS COVER. THE STATION LIES 119 M SOUTHEAST OF CALL BOX NO. YL-16-61, 58.7 M NORTHWEST OF THE WESTBOUND POST MILE 6.11 PADDLE, 6.8 M SOUTHWEST OF A BARBED WIRE R/W FENCE, 4.5 M NORTHEAST OF THE NORTH EDGE OF PAVEMENT OF THE HIGHWAY, 1.0 M SOUTHWEST OF A CARSONITE WITNESS POST, AND ABOUT LEVEL WITH THE HIGHWAY. THIS STATION WAS OCCUPIED AS PART OF A CALTRANS NORTH REGION OFFICE OF SURVEYORS GPS HEIGHT MODERNIZATION PROJECT.

Appendix K – Station Descriptions

RUSSELL RANCH 2

THE STATION IS LOCATED ON THE RUSSELL RANCH SECTION OF U.C. DAVIS, ABOUT 7 MI (11.3 KM) WEST OF DAVIS AND 5 MI (8.0 KM) EAST OF WINTERS.

TO REACH THE STATION FROM THE STATE HIGHWAY 113/RUSSELL BLVD INTERCHANGE ON THE WEST SIDE OF DAVIS, GO WEST ON RUSSELL BLVD FOR 0.5 MI (0.8 KM) TO A Y-INTERSECTION WITH ARLINGTON BLVD. TURN LEFT AND CONTINUE WEST ON RUSSELL BLVD FOR 4.3 MI (6.9 KM) TO ANOTHER Y-INTERSECTION WITH ROAD 95A. TAKE THE RIGHT FORK AND CONTINUE NORTH AND WEST ON RUSSELL BLVD FOR 1.0 MI (1.6 KM) TO A DIRT SIDE ROAD LEFT, KINSELLA LANE. TURN LEFT AND GO SOUTH ON KINSELLA LANE FOR 0.1 MI (0.2 KM) TO A DIRT SIDE ROAD RIGHT. TURN RIGHT AND GO WEST ON THE DIRT ROAD FOR ABOUT 100 FT (30.5 M) TO A DIRT SIDE ROAD LEFT. TURN LEFT AND GO SOUTH FOR 0.1 MI (0.2 KM) TO A DIRT SIDE ROAD RIGHT. TURN RIGHT AND GO WEST ON THE DIRT ROAD FOR 0.25 MI (0.40 KM) TO AN ENCLOSED FENCE AREA (WEATHER STATION) AND THE STATION INSIDE THE FENCED AREA.

THE STATION IS A STAINLESS STEEL ROD WITH A CENTER PUNCH ON TOP ENCASED IN PIPE WITH ACCESS COVER STAMPED RR2 LS6721 SET IN CONCRETE FLUSH WITH THE GROUND, 10 FT (3.0 M) FROM THE NORTH FENCE AND 10 FT (3.0 M) FROM THE EAST FENCE. THE EQUIPMENT GATE AT THE NORTHWEST CORNER OF THE ENCLOSURE IS JAMMED SHUT DUE TO FENCE POST SETTLEMENT. THE PERSONNEL GATE AT THE SOUTHWEST CORNER OF THE ENCLOSURE IS UNLOCKED AND IS THE PREFERRED POINT OF ENTRY.

RWF1

THE STATION IS LOCATED ABOUT 2.5 MI (4.0 KM) NORTH OF DAVIS AND IS SET IN THE HEADWALL OF A DRAINAGE CANAL.

TO REACH THE STATION FROM THE INTERSECTION OF STATE HIGHWAY 113 AND YOLO COUNTY ROAD 29, GO EAST ON ROAD 29 FOR 0.8 MI (1.3 KM) TO A SIDE ROAD RIGHT, ROAD 101A. TURN RIGHT AND GO SOUTHEAST ON ROAD 101A FOR ABOUT 0.3 MI (0.5 KM) TO THE STATION ON THE RIGHT.

THE STATION IS A 2 IN ALUMINUM DISK STAMPED RWF1 SET IN THE TOP OF THE SOUTH END OF A CONCRETE HEADWALL ON THE WEST SIDE OF ROAD 101A, THE NORTH EXTENSION OF F STREET IN DAVIS. IT IS 47 FT (14.3 M) WEST OF THE CENTERLINE OF THE ROAD, 3.5 FT (1.1 M) NORTHEAST OF A 5 IN STEEL CABLE GATE POST AND 0.8 FT (0.2 M) NORTH OF THE SOUTH END OF THE HEADWALL.

Appendix K – Station Descriptions

SM NO 15

THE STATION IS LOCATED ABOUT 9 MI (14.5 KM) NORTHEAST OF WOODLAND, ABOUT 7 MI (11.3 KM) SOUTH OF KNIGHTS LANDING AND ALONG THE EAST SIDE OF THE YOLO BYPASS.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 5 AND COUNTY ROAD E8, ROAD 102, ABOUT 2 MI (3.2 KM) EAST OF WOODLAND, GO EAST ON HIGHWAY 5 FOR ABOUT 5 MI (8.0 KM) TO THE ROAD 22 OFF-RAMP. TAKE THE OFF-RAMP EAST AND THEN SOUTH FOR 0.2 MI (0.3 KM) TO A T-INTERSECTION, ROAD 118. TURN LEFT AND GO EAST FOR 0.5 MI (0.8 KM) TO A T-INTERSECTION, OLD RIVER ROAD. TURN LEFT AND GO NORTHWEST ON OLD RIVER ROAD, PASSING UNDER HIGHWAY 5, FOR 0.2 MI (0.3 KM) TO A SIDE ROAD RIGHT, ROAD 117. TURN RIGHT AND GO NORTHERLY ON ROAD 117 FOLLOWING THE WEST BANK OF THE SACRAMENTO RIVER, FOR ABOUT 6 MI (9.7 KM) TO A SIDE ROAD LEFT, ROAD 16. TURN LEFT AND GO WEST ON ROAD 16 FOR 2.05 MI (3.30 KM) TO THE BASE OF A LEVEE AND A FORK IN THE ROAD. TAKE THE LEFT FORK AND GO SOUTHWEST FOR 0.05 MI (0.08 KM) TO THE TOP OF THE LEVEE AND A GATE. CONTINUE SOUTH ALONG THE LEVEE ROAD THROUGH THE GATE FOR 1.2 MI (1.9 KM) TO A DIRT SIDE ROAD LEFT AND AN ABANDONED TWO STORY CONCRETE PUMPING PLANT. TURN LEFT AND GO EAST ON THE DIRT ROAD TO THE BASE OF THE LEVEE AND THE STATION ON THE RIGHT.

ACCORDING TO A 1991 SUBSIDENCE MONITORING REPORT PREPARED BY WEST YOST ASSOCIATES, THE MARK IS A 10 FT (3.0 M) LONG BY 3/4 IN DIAMETER COPPERWELD ROD DRIVEN INTO THE GROUND AND TOPPED WITH A YOLO COUNTY SURVEYOR'S OFFICE ALUMINUM DISK. IT IS SET INSIDE A WELL CASING WITH THE WORD GROUND ON THE TOP OF THE WELL MONUMENT COVER. IT IS ABOUT 30 M (98.4 FT) EAST OF THE CENTERLINE OF THE LEVEE ROAD, 15.2 M (49.9 FT) NORTHEAST OF THE NORTHEAST CORNER OF THE CONCRETE BUILDING, 13.4 M (44.0 FT) NORTH OF THE NORTHWEST CORNER OF A 3 M (9.8 FT) BY 3 M (9.8 FT) CORRUGATED METAL BUILDING AT THE HEAD OF AN IRRIGATION CANAL, 7.2 M (23.6 FT) EAST OF THE CENTERLINE OF THE DIRT ROAD, SET ABOUT MIDWAY BETWEEN TWO 0.1 M (0.3 FT) IRON PIPES WHICH PROJECT ABOUT 1.2 M (3.9 FT) AND INSIDE THE WELL MONUMENT.

SYCAMORE

THE STATION IS LOCATED ABOUT 11 MI (17.7 KM) NORTH OF WOODLAND AND ABOUT 3.5 MI (5.6 KM) NORTHWEST OF KNIGHTS LANDING.

TO REACH THE STATION FROM THE INTERSECTION OF STATE HIGHWAY 113 AND STATE HIGHWAY 45 IN KNIGHTS LANDING, GO NORTHWESTERLY ON HIGHWAY 45 FOR 3.4 MI (5.5 KM) TO A SIDE ROAD RIGHT, ROAD 111. TURN RIGHT AND GO EAST FOR ABOUT 20 M (65.6 FT) TO THE STATION ON THE LEFT AT THE EAST SIDE OF A DRAINAGE CANAL.

THE STATION IS A 2 1/2 IN YOLO COUNTY DISK SET INSIDE AN ALUMINUM LOGO CAP. IT IS 18.0 M (59.1 FT) EAST OF THE CENTERLINE OF HIGHWAY 45, 7.1 M (23.3 FT) NORTH OF THE CENTERLINE OF ROAD 111, 6.8 M (22.3 FT) EAST OF A STOP SIGN AND 0.9 M (3.0 FT) SOUTH OF A CARSONITE WITNESS POST.

Appendix K – Station Descriptions

T 1069

THE STATION IS LOCATED ABOUT 13 MI (20.9 KM) SOUTHWEST OF WOODLAND AND ABOUT 4.5 MI (7.2 KM) NORTH OF WINTERS.

TO REACH THE STATION FROM THE INTERSECTION OF GRANT STREET AND RAILROAD AVENUE IN DOWNTOWN WINTERS, GO NORTH ON RAILROAD AVENUE, WHICH CHANGES TO ROAD 89, FOR 4.25 MI (6.84 KM) TO A SIDE ROAD RIGHT, ROAD 29A. CONTINUE NORTH ON ROAD 89 FOR 0.15 MI (0.24 KM) TO THE STATION ON THE LEFT.

THE STATION IS A USC&GS BENCH MARK DISK STAMPED T 1069 19667. IT IS 9.45 M (31.00 FT) WEST OF THE CENTERLINE OF ROAD 89, 7.8 M (25.6 FT) NORTH OF A POWER POLE, 5.45 SOUTH OF THE CENTERLINE OF A DIRT FARM ROAD, 1.45 M (4.76 FT) EAST OF A CARSONITE WITNESS POST, SET IN THE TOP OF THE SOUTHEAST CORNER OF A CONCRETE FOUNDATION FOR A FLOOD VALVE AND ABOUT 0.6 M (2.0 FT) HIGHER THAN THE ROAD. A STEEL GRATE HAS BEEN INSTALLED ON THE VALVE FOUNDATION, BUT A HOLE HAS BEEN CUT IN THE TOP TO ALLOW ACCESS TO THE DATUM POINT.

T 462

THE STATION IS ABOUT 1.4 MI S FROM FREEPORT, AND ABOUT 0.95 MI (1.53 KM) SOUTHWESTERLY ALONG SOUTH RIVER ROAD FROM THE FREEPORT BRIDGE OVER THE SACRAMENTO RIVER.

TO REACH THE STATION FROM THE SCHOOL AT FREEPORT, GO 0.2 MILE SOUTH ALONG STATE HIGHWAY 24, THENCE 1.2 MILES SOUTH ALONG AN ASPHALT LEVEE ROAD, TO THE STATION ON THE RIGHT AT THE ENTRANCE TO THE BORGES-CLARKSBURG AIRPORT.

THE STATION IS A USC&GS BENCH MARK DISK STAMPED T 462 1951. IT IS 88.0 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF A WHITE FRAME HOUSE, 28.0 FEET SOUTH OF THE CENTER LINE OF THE ENTRANCE DRIVEWAY, 26.0 FEET WEST OF THE CENTER LINE OF THE ROAD, 2.0 FEET NORTH OF A WITNESS POST, ABOUT 2 1/2 FEET LOWER THAN THE ROAD, AND SET IN THE TOP OF A CONCRETE POST PROJECTING 0.3 FOOT ABOVE THE GROUND.

THE STATION IS ABOUT 79 FT (24.1 M) NORTH OF THE CENTERLINE OF A DRIVEWAY, 26 FT (7.9 M) SOUTH OF THE CENTERLINE OF A DRIVEWAY AND 25 FT (7.6 M) WEST OF THE CENTERLINE OF THE LEVEE ROAD (SOUTH RIVER ROAD). THE STATION WAS OCCUPIED AS PART OF THE SAN JOAQUIN-SACRAMENTO RIVER DELTA GPS/VERTICAL PROJECT.

Appendix K – Station Descriptions

T 849

THE STATION IS LOCATED ABOUT 11 MI NORTH OF WOODLAND AND ABOUT 2 MI (3.2 KM) WEST OF ZAMORA.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 5 AND COUNTY ROAD E10, ROAD 13, GO WEST AND THEN SOUTHWEST ON ROAD E10 FOR 1.95 MI (3.14 KM) TO THE STATION ON THE LEFT.

THE STATION IS A USC&GS BENCH MARK DISK STAMPED T 849 1949. IT IS ABOUT 80 M (262.5 FT) NORTHEAST OF THE CENTERLINE OF A DIRT DRIVEWAY TO A RANCH-STYLE HOUSE, 8.0 M (26.2 FT) SOUTHEAST OF THE CENTERLINE OF ROAD E10, 1.0 M (3.3 FT) SOUTHEAST OF A CARSONITE WITNESS POST, 0.3 M (1.0 FT) LOWER THAN THE ROAD AND IN THE TOP CENTER OF THE CONCRETE HEADWALL.

TYNDALL

THE STATION IS LOCATED ABOUT 8 MI (12.9 KM) EAST OF DUNNIGAN AND ABOUT 8 MI (12.9 KM) NORTHWEST OF KNIGHTS LANDING.

TO REACH THE STATION FROM THE INTERSECTION OF STATE HIGHWAY 113 AND STATE HIGHWAY 45 IN KNIGHTS LANDING, GO NORTHWESTERLY ON HIGHWAY 45 FOR 3.4 MI (5.5 KM) TO A SIDE ROAD RIGHT, ROAD 111. CONTINUE NORTHWESTERLY ON HIGHWAY 45 FOR 5.0 MI (8.0 KM) TO A DIRT FARM ROAD LEFT, A YOLO COUNTY EMERGENCY CALL BOX AND THE STATION ON THE LEFT.

THE STATION IS A 2 IN YOLO COUNTY DISK STAMPED TYNDALL 1999. IT IS 11.0 M (36.1 FT) SOUTHWEST OF THE CENTERLINE OF HIGHWAY 45, 5.0 M (16.4 FT) SOUTH OF THE EMERGENCY CALL BOX, 2.5 M (8.2 FT) NORTH-NORTHWEST OF THE CENTERLINE OF THE DIRT ROAD, 1.2 M (3.9 FT) SOUTHEAST OF A WITNESS POST AND SET IN THE SOUTHEAST CORNER OF OF A 2 M (6.6 FT) BY 2 M (6.6 FT) CONCRETE IRRIGATION CONTROL VALVE BOX.

VINCOR

THE STATION IS LOCATED ABOUT 6 MI (9.7 KM) WEST OF ZAMORA, ABOUT 6 MI (9.7 KM) SOUTH OF DUNNIGAN AND IN THE COUNTY RIGHT-OF-WAY ON THE RH PHILLIPS WINE COMPANY PROPERTY.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 505 AND ROAD 12, ABOUT 3 MI (4.8 KM) NORTHWEST OF ZAMORA, GO SOUTHWESTERLY AND THEN WEST ON ROAD 12 FOR 3.1 MI (5.0 KM) TO A PUMPING FACILITY ON THE LEFT AT THE NORTH EDGE OF A VINEYARD. CONTINUE WEST ON ROAD 12 FOR 0.2 MI (0.3 KM) TO A CONCRETE CULVERT OVER A DRAINAGE DITCH AND THE STATION ON THE LEFT.

THE STATION IS A 2 IN ALUMINUM DISK STAMPED VINCOR 2002 SET IN THE TOP OF A CONCRETE CULVERT HEADWALL. IT IS 36.4 FT (11.1 M) SOUTH OF STATION PHILLIPS WHICH IS SET IN THE CULVERT ON THE NORTH SIDE OF THE ROAD, ABOUT 20 FT (6.1 M) SOUTH OF THE CENTERLINE OF THE ROAD, 3.0 FT (0.9 M) WEST OF A CARSONITE WITNESS POST AND 1.0 FT (0.3 M) EAST OF THE WEST END OF THE HEADWALL.

Appendix K – Station Descriptions

WAPT

THE MARK IS LOCATED ABOUT 5 MI (8.0 KM) EAST-SOUTHEAST OF MADISON IN YOLO COUNTY.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE 505 AND STATE ROUTE 16 NEAR MADISON, GO EAST ON STATE ROUTE 16 FOR 4.2 MI (6.8 KM) TO A CURVE LEFT. FOLLOW THE CURVE NORTHEAST FOR 0.3 MI (0.5 KM) TO THE INTERSECTION OF ROAD 94B. TURN RIGHT AND GO SOUTH ON ROAD 94B FOR 0.1 MI (0.2 KM) TO THE INTERSECTION OF ROAD 23A, A SIDE ROAD RIGHT. CONTINUE SOUTH ON ROAD 94B FOR 0.3 MI (0.5 KM) TO THE INTERSECTION OF ROAD 24. TURN RIGHT AND GO WEST 200 FT (61.0 M) TO THE STATION ON THE RIGHT.

THE STATION IS A 1 INCH (25 MM) COPPER DISK SET IN THE TOP OF A CONCRETE HEADWALL OVER A CULVERT AT THE EAST SIDE OF A DRIVEWAY ACROSS FROM NO. 34260 ROAD 24. IT IS 20.4 FT (6.2 M) NORTH OF THE CENTER OF THE ROAD, 18.5 FT (5.6 M) SOUTHEAST OF THE WEST GATE POST AND 5.2 FT (1.6 M) SOUTHWEST OF THE EAST GATE POST.

WILLOW

THE STATION IS LOCATED ABOUT 0.5 MI NORTH OF MADISON IN YOLO COUNTY.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE 505 AND STATE ROUTE 16 NEAR MADISON, GO WEST ON STATE ROUTE 16 FOR 0.8 MI TO THE ROUNDABOUT AT ROAD 89. TURN RIGHT AND GO NORTH ON ROAD 89 FOR 0.3 MI TO THE BRIDGE OVER THE SOUTH FORK OF WILLOW SLOUGH AND THE STATION ON THE LEFT.

THE STATION IS A BRASS DISK SET IN THE SOUTHWEST CORNER OF A CONCRETE BRIDGE DECK. IT IS 3.0 FT NORTH OF THE BRIDGE NOTCH AND 3.0 FT EAST OF THE BRIDGE RAIL.

WILSON

THE STATION IS LOCATED ABOUT 10 MI (16.1 KM) SOUTHWEST OF WEST SACRAMENTO AND ABOUT 4 MI (6.4 KM) SOUTHEAST OF DAVIS. THE STATION IS ON PROPERTY OF THE YOLO COUNTY GRASSLANDS REGIONAL PARK AND AT THE SOUTHWEST CORNER OF THE SACRAMENTO VALLEY SOARING SOCIETY AIRFIELD.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 80 AND MACE BOULEVARD, ABOUT 2 MI (3.2 KM) EAST OF DAVIS, GO SOUTH ON MACE BOULEVARD, WHICH CHANGES TO ROAD 104, FOR ABOUT 3.9 MI (6.3 KM) TO TREMONT ROAD ON THE RIGHT AND THE ENTRANCE TO THE YOLO COUNTY REGIONAL PARK ON THE LEFT. TURN LEFT AND GO EAST ALONG THE GRAVEL PARK ROAD FOR ABOUT 0.2 MI (0.3 KM) TO THE STATION ON THE LEFT.

THE STATION IS AN ALUMIUM DISK STAMPED WILSON 1997 SET INSIDE A LOGO CAP. IT IS 35.7 FT (10.9 M) NORTH OF THE CENTERLINE OF THE GRAVEL ROAD AND ABOUT 10 FT (3.0 M) WEST OF THE SIGN FOR THE SACRAMENTO VALLEY SOARING SOCIETY. THE STATION IS 2.0 FT (0.6 M) SOUTH OF A CARSONITE WITNESS POST, AND 1.4 FT (0.4 M) SOUTHEAST OF A STEEL T FENCE POST WITH A "DANGER ARCHERY RANGE" SIGN.

Appendix K – Station Descriptions

WOODPORT

THE STATION IS LOCATED ABOUT 8.0 KM (5 MI) WEST OF WOODLAND AND AT THE WATTS-WOODLAND AIRPORT. OWNERSHIP--MILTON B. WATTS, BOX 1157, WOODLAND CA 95695, PHONE 916-662-9631.

TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE HIGHWAY 5 AND MAIN STREET IN WOODLAND, GO WEST FOR 1.9 KM (1.15 MI) ON MAIN STREET TO STATE HIGHWAY 113. CONTINUE STRAIGHT AHEAD AND GO WEST FOR 3.2 KM (2.0 MI) ON MAIN STREET TO THE JUNCTION OF ROAD 98. CONTINUE STRAIGHT AHEAD AND GO WEST FOR 4.7 KM (2.9 MI) ON STATE HIGHWAY 16 TO A FORK. FOLLOW THE LEFT FORK AND GO SOUTHWEST FOR 1.8 KM (1.1 MI) ON HIGHWAY 16 TO A SIDE ROAD RIGHT. TURN RIGHT AND GO NORTH FOR 0.6 KM (0.4 MI) ON 94B ROAD TO A GATE ON THE LEFT. PASS THROUGH GATE AND GO WEST FOR 0.2 KM (0.1 MI) BETWEEN BUILDINGS, TO THE TAXIWAY. TURN LEFT AND GO SOUTHERLY FOR 0.3 KM (0.2 MI) ON THE TAXIWAY TO A CURVE RIGHT IN TAXIWAY. BEAR RIGHT AND GO WESTERLY FOR 0.2 KM (0.1 MI) ON THE TAXIWAY TO THE STATION ON THE LEFT, ABOUT 2 METERS (6.5 FT) HIGHER THAN THE TAXIWAY.

THE STATION IS A PUNCH MARK ON TOP OF A STAINLESS STEEL ROD THAT IS ---UNSTAMPED---, DRIVEN TO A DEPTH OF 11.9 METERS (39 FT) RECESSED 8 CM BELOW GROUND INSIDE A GREASE-FILLED SLEEVE EXTENDING TO A DEPTH OF 0.9 METERS (3 FT) ENCASED IN A PVC PIPE WITH NGS LOGO FLANGE STAMPED ---WOODPORT 1987---, FLUSH WITH GROUND. LOCATED 22.9 METERS (75.13 FT) SOUTHEAST FROM THE APPROXIMATE CENTER OF TAXIWAY, 0.8 METERS (2.62 FT) NORTHWEST FROM A BARBED WIRE FENCE LINE AND 0.5 METERS (1.64 FT) NORTHWEST FROM A CARSONITE WITNESS POST.

X 200 RESET

THE STATION IS LOCATED ABOUT 2 MI (3.2 KM) NORTHWEST OF DUNNIGAN AND ABOUT 1 MI (1.6 KM) SOUTH OF THE YOLO/COLUSA COUNTY LINE.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 5 AND ROAD 6, JUST WEST OF DUNNIGAN, GO EAST ON ROAD 6 FOR 0.3 MI (0.5 KM) TO THE INTERSECTION OF COUNTY ROAD 99W. TURN LEFT AND GO NORTHWEST ON ROAD 99W FOR 1.9 MI (3.1 KM) TO THE STATION ON THE RIGHT.

THE STATION IS A USC&GS BENCH MARK DISK STAMPED X 200 1935 RESET 1942. IT IS ABOUT 15 M (49.2 FT) SOUTHWEST OF THE SOUTHWEST RAIL OF A SINGLE RAILROAD TRACK AND A WOODEN RAILROAD BRIDGE AT RAILROAD MILE 104.86, 5.5 M (18.0 FT) NORTHEAST OF THE CENTERLINE OF ROAD 99W, 1.15 M (3.77 FT) WEST OF A CARSONITE WITNESS POST, 0.3 M (1.0 FT) NORTHWEST OF THE SOUTHEAST END OF A CONCRETE HEADWALL OF A DOUBLE PIPE CULVERT AND ABOUT LEVEL WITH THE HIGHWAY.

Appendix K – Station Descriptions

YAPT

THE MARK IS LOCATED ABOUT 4 MI (6.4 KM) WEST OF DAVIS IN YOLO COUNTY.

TO REACH THE STATION FROM THE INTERSECTION OF STATE ROUTE 113 AND COVELL BOULEVARD IN DAVIS, GO WEST ON COVELL BOULEVARD FOR ABOUT 1.9 MI (3.1 KM) TO THE INTERSECTION OF COUNTY ROAD 98. CONTINUE WEST ON ROAD 31 (THE EXTENSION OF COVELL BOULEVARD) FOR 3.0 MI (4.8 KM) TO THE INTERSECTION OF ROAD 95. TURN RIGHT AND GO NORTH ON ROAD 95 FOR 0.5 MI (0.8 KM) TO AVIATION AVENUE, A SIDE ROAD RIGHT. TURN RIGHT AND GO EAST ON AVIATION AVENUE FOR 0.2 MI (0.3 KM) AND THE STATION ON THE LEFT.

THE STATION IS A 1 INCH (25 MM) COPPER DISK SET IN THE TOP OF THE EAST CONCRETE HEADWALL OVER A CULVERT AT A GATED ENTRANCE ROAD TO THE YOLO COUNTY AIRPORT. IT IS 20.9 FT (6.4 M) NORTH OF THE CENTER OF AVIATION AVENUE, 12.3 FT (3.7 M) SOUTH OF THE EAST GATE POST AND 2.9 FT (0.9 M) NORTH OF THE SOUTH END OF THE HEADWALL.

ZAMX

THE STATION IS ABOUT 11 MI (17.7 KM) NORTH-NORTHWEST OF WOODLAND AND ABOUT 4 MI (6.4 KM) SOUTH-SOUTHEAST OF ZAMORA AT THE SITE OF THE ZAMORA EXTENSOMETER.

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 5 AND COUNTY ROAD E10, ROAD 13, AT ZAMORA, GO EAST ON COUNTY ROAD E10 FOR ABOUT 3.1 MI (5.0 KM) TO THE INTERSECTION OF ROAD 97. TURN RIGHT AND GO SOUTH ON ROAD 97 FOR 1.0 MI (1.6 KM) TO THE INTERSECTION OF ROAD 14. TURN LEFT AND GO EAST ON ROAD 14 FOR 0.5 MI (0.8 KM) TO A DIRT SIDE ROAD LEFT. TURN LEFT AND GO NORTH ON THE DIRT SIDE ROAD FOR ABOUT 30 M (98.4 FT) WHERE THE DIRT ROAD SPLITS. TAKE EITHER ROAD FOR AN ADDITIONAL 15 M (49.2 FT) NORTH TO THE STATION, JUST NORTH OF A CIRCULAR CORRUGATED METAL BUILDING.

THE STATION IS A 2 1/2 IN YOLO COUNTY DISK STAMPED ZAMX 1999 SET ATOP AN ALUMINUM ROD DRIVEN TO A DEPTH OF 6.1 M (20.0 FT) AND SET INSIDE A 5 IN PVC WITH AN ALUMINUM LOGO CAP. IT IS 51.3 M (168.3 FT) SOUTH OF A 3.0 M (9.8 FT) BY 3.0 M (9.8 FT) METAL BUILDING HOUSING THE EXTENSOMETER, 46.4 M (152.2 FT) NORTH OF THE CENTERLINE OF ROAD 14, 30.0 M (98.4 FT) SOUTH OF A POWER POLE WITH TRANSFORMER, 5.3 M (17.4 FT) WEST OF THE CENTERLINE OF A DIRT ROAD, 5.2 M (17.1 FT) EAST OF THE CENTERLINE OF A DIRT ROAD, 20.3 FT (6.2 M) SOUTH-SOUTHWEST OF A 1.4 FT (0.4 M) DIAMETER STEEL MONITORING WELL PROTECTIVE CASING AND 2.05 M (6.73 FT) NORTH OF THE CONCRETE FOUNDATION FOR THE CIRCULAR CORRUGATED METAL BUILDING.