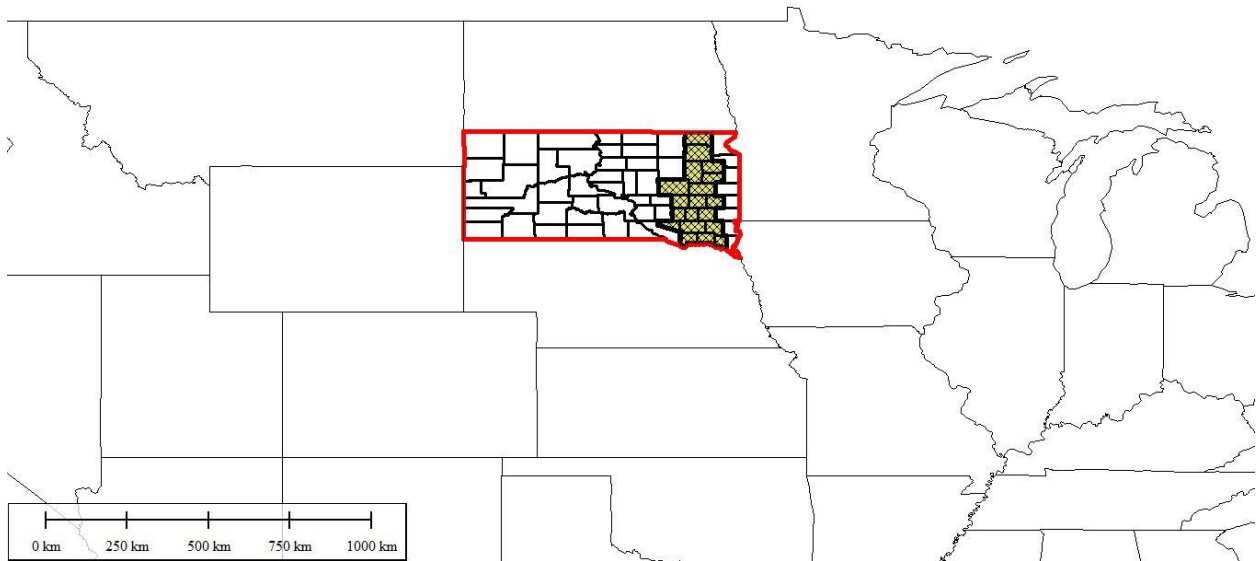


REPORT OF LIDAR SURVEY
United States Geological Survey
Ground Control Report
Eastern South Dakota P2



Performed by:

TerraSurv

For:

Fugro Geospatial
Terrasurv Project #21017

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REPORT OF SURVEY

USGS EASTERN SOUTH DAKOTA P2

INTRODUCTION

Terrasurv, Inc of Pittsburgh, PA was tasked by Fugro Geospatial with performing a control survey in support of LiDAR data collection covering an area in eastern South Dakota of approximately 12,600 mi². The project consisted of two parts: 112 ground control (calibration) points (GCP) and 275 quality control (QC: NVA/VVA-NF/VVA-F), for a total of 517 new stations. The map in figure 1 shows the location of the Ground Control (GCP) and figure 2 shows the location of the QC points. The control symbology for figures 1 and 2 are listed in table 1. Also shown in figure 1 are the Continuously Operating Reference Stations (CORS).

Table 1 - Map Symbology and Control Quantity

Type	Symbol	VA Quantity
Ground Control (GCP)	Green Dot	112
Non-Vegetated (NVA)	Red Dot	238
Vegetated (VVA-NF)	Red X	153
Woods (VVA-F)	Yellow X	14
CORS	Black Dot	26

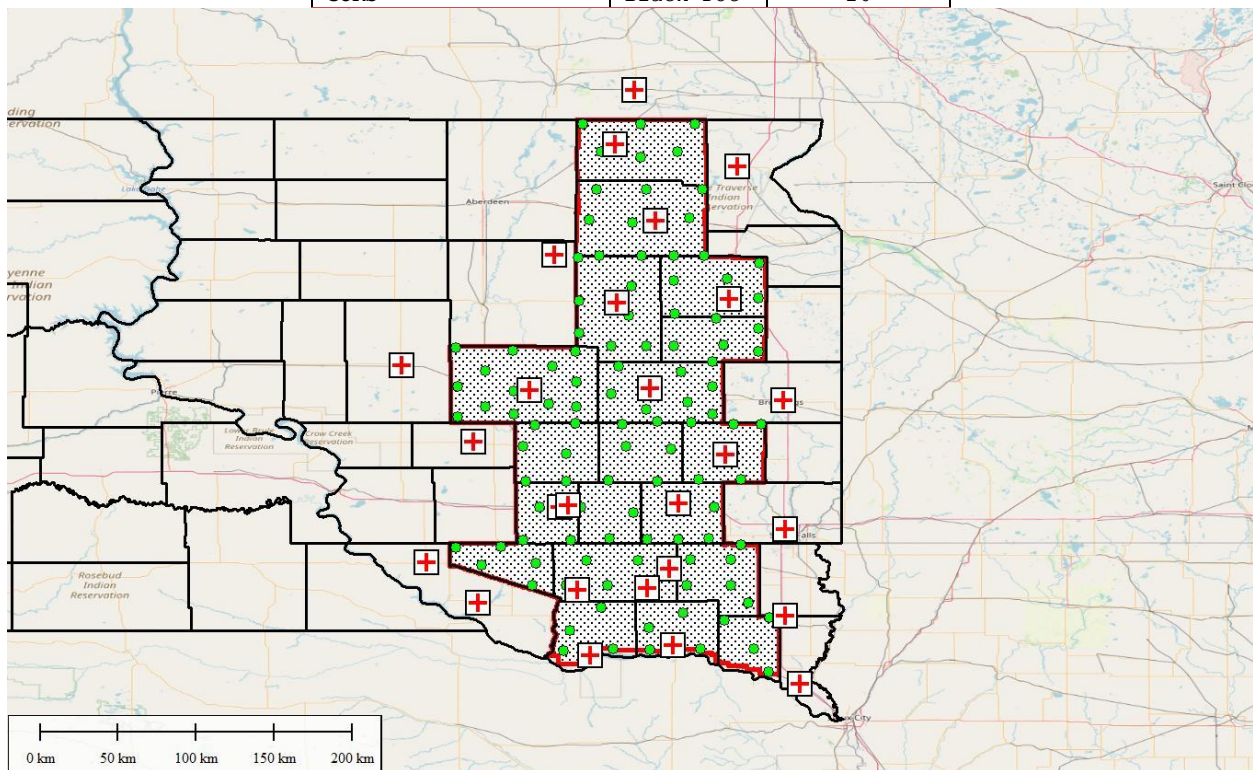


Figure 1 – GCP stations and CORS

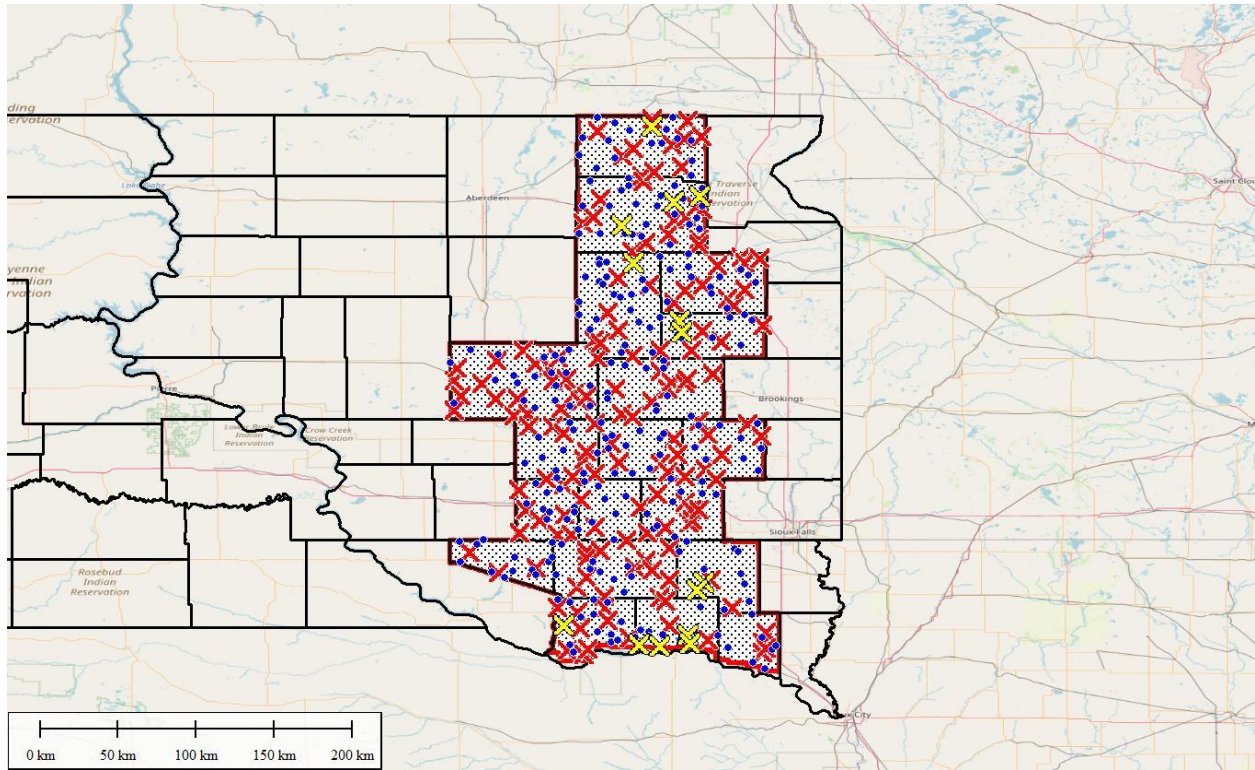


Figure 2 – Checkpoints (NVA, VVA-NF, and VVA-F)

CONTROL

The National Spatial Reference System (NSRS) was used to provide control for the network. The [Trimble VRSNow](#) real time network (RTN) was utilized, with a total of 26 CORS from the system being used. The horizontal datum was the North American Datum of 1983 (NAD83 (2011), epoch 2010.00). The vertical datum was the North American Vertical Datum of 1988 (NAVD88), realized with the GEOID18 geoid model from the National Geodetic Survey (NGS).

STATIONS

Table 2 lists the stations established in this survey, including the GCP, NVA, VVA-NF, and VVA-F, and the temporary base stations established to enable survey of VVA-F points in wooded areas.

Table 2 - Station List

Station Name	GPSID	USGS Quadrangle	Description
	21017WA	MISSION HILL	Temporary Woods Base
	21017WB	MISSION HILL	Temporary Woods Base
	21017WC	YANKTON	Temporary Woods Base
	21017WD	TABOR NE	Temporary Woods Base
	21017WE	AVON	Temporary Woods Base
	21017WF	TURKEY RIDGE	Temporary Woods Base
	21017WG	PARKER SW	Temporary Woods Base
	21017WH	HAZEL	Temporary Woods Base
	21017WI	BRYANT NE	Temporary Woods Base
	21017ZA	BRISTOL EAST	Temporary Woods Base
	21017ZB	BRADLEY	Temporary Woods Base

Station Name	GPSID	USGS Quadrangle	Description
GCP001	21017AA	TULARE SW	bare dirt road surface on turn radius from 191st Street westbound to 376th Avenue northbound
GCP002	21017AB	JOUBERT	dirt centerline of 270 Street and the east edge of 376 Avenue.
GCP003	21017AC	WESSINGTON	bare road surface on turn radius from 376th Avenue southbound to 206th Street westbound
GCP004	21017AD	WESSINGTON SPRINGS NW	bare dirt road surface on south edge of 218th Street at spur road west/south where road turns north
GCP005	21017AE	GEDDES SE	dirt centerline of 277 Street and the east edge of 283 Avenue.
GCP006	21017AF	WOLSEY	bare dirt on field entrance on south side of 200th Street and east of US 281
GCP007	21017AG	VIRGIL	bare dirt road surface in southbound travel lane of 386th Avenue
GCP008	21017AH	CORSICA	gravel centerline of a field access on the east edge of US281.
GCP009	21017AI	HITCHCOCK SE	bare dirt road surface in center of 192nd Street on east side of 394th Avenue
GCP010	21017AJ	WOLSEY SE	pavement on turn radius from US 14 eastbound to 394th Street southbound
GCP011	21017AK	ALPENA	dirt centerline of 217 Street and the east edge of 394 Avenue.
GCP012	21017AL	WOONSOCKET	dirt centerline of the southern drive of 2 to a house on the north side of SD34.
GCP013	21017AM	OLD STICKNEY LAKE	dirt centerline of 396 Avenue and the north edge of 267 Street.
GCP014	21017AN	STORLA	dirt centerline of 397 Avenue and the south edge of 244 Street.
GCP015	21017AO	DELMONT	dirt centerline of 285 Street and the west edge of 398 Avenue.
GCP016	21017AP	FORESTBURG NW	asphalt center of a cross over along SD37.
GCP017	21017AQ	HILLSIDE	asphalt centerline of 399 Avenue and the north edge of 276 Street.
GCP018	21017AR	BETTS	dirt centerline of 401 Avenue and the north edge of 254 Street.
GCP019	21017AS	HURON	bare dirt in road on turn radius from 404th Avenue northbound to 213rd Street eastbound
GCP020	21017AT	LAKE BYRON SE	bare dirt road surface on turn radius from 198th Street westbound to 405th Avenue northbound
GCP021	21017AU	NIOBRARA NE	dirt centerline of 311 Street and the east edge of 407 Avenue.
GCP022	21017AV	FORESTBURG	dirt centerline of a drive to the west of 409 Avenue and just north of SD34.
GCP023	21017AW	LOOMIS	dirt center of a crossover in the center of SD37 and just north of 244 Street.
GCP024	21017AX	DELMONT SE	dirt centerline of 285 Street and the east edge of 408 Avenue.
GCP025	21017AY	SHOEMAKER DAM	dirt centerline of 267 Street and east side of SD37.
GCP026	21017AZ	NIOBRARA NE	dirt centerline of 303 Street and west edge of 409 Avenue.
GCP027	21017BA	STAUM DAM	bare dirt in middle of 412th Avenue (field entrance) on south side of 192nd Street
GCP028	21017BB	CRANDALL	bare dirt in center of 155th Street on east side of 413rd Avenue
GCP029	21017BC	ARTESIAN NW	dirt centerline of a drive to the north of 221 Street.
GCP030	21017BD	YALE	bare dirt and sparse grass in center of 412 Avenue on north side of 204th Street
GCP031	21017BE	PEARL CREEK COLONY	center of 412th Avenue just north of 214th Street
GCP032	21017BF	RAYMOND	bare road surface in northbound lane of 413th Avenue south of US 212
GCP033	21017BG	NEWARK NW	bare dirt in middle of field road (101st Street) on east side of 414th Avenue

Station Name	GPSID	USGS Quadrangle	Description
GCP034	21017BH	CARPENTER	bare road surface on turn radius from 185th Street westbound to 413th Avenue northbound
GCP035	21017BI	RIVERSIDE	asphalt centerline of an access to a parking area on the east side of 413 Avenue and north side of SD38.
GCP036	21017BJ	ANDOVER SW	bare road surface in westbound lane of 140th Street just east of 416th Avenue
GCP037	21017BK	PARKSTON	dirt centerline of 414 Avenue and the north edge of 275 Street.
GCP038	21017BL	LANGFORD	bare road surface in middle of 418th Avenue just north of 128th Street
GCP039	21017BM	SPAIN	bare dirt road surface on turn radius from 113th Street eastbound to 419th Avenue southbound
GCP040	21017BN	LONE TREE LAKE	bare road surface in northbound lane of 419th Avenue at center of access road to wind turbines east and west
GCP041	21017BO	KAYLOR	dirt centerline of 294 Street and the west edge of 418 Avenue.
GCP042	21017BP	CARPENTER NE	asphalt centerline of 422 Avenue and the south edge of SD28.
GCP043	21017BQ	NESS CHAIN LAKES	dirt centerline of a drive to the west of SD21.
GCP044	21017BR	PARKSTON SE	dirt centerline of 285 Street and the east edge of 420 Avenue.
GCP045	21017BS	IROQUOIS	dirt centerline of 209 Street and the west edge of 422 Avenue.
GCP046	21017BT	ROCKPORT COLONY	gravel centerline of a field access on the west edge of 421 Avenue.
GCP047	21017BU	WILLOW LAKE SW	dirt centerline of 198 Street and the west edge of 424 Avenue.
GCP048	21017BV	TYNDALL	centerline of a field access on the east edge of Kramer Road.
GCP049	21017BW	CARTHAGE	dirt centerline of 425 Avenue and the south edge of 221 Street.
GCP050	21017BX	CLARK SOUTH	bare road surface on turn radius from 427th Avenue southbound to 178th Street westbound
GCP051	21017BY	ROSWELL	dirt centerline of 230 Street and the east edge of 426 Avenue.
GCP052	21017BZ	BRISTOL EAST	bare road surface on turn radius from US 12 westbound to 428th Avenue northbound
GCP053	21017CA	CLARK NORTH	bare road surface on turn radius from 166th Street eastbound to 428th Avenue southbound
GCP054	21017CB	HAVANA	bare dirt in center of 102nd Street at center of field entrances north and south
GCP055	21017CC	BRITTON 4 NE	bare road surface on turn radius from 115th Street westbound to 430th Avenue northbound
GCP056	21017CD	FARMER	dirt centerline of 256 Street and the east edge of 428 Avenue.
GCP057	21017CE	SWAN LAKE	bare dirt road surface in center of 154th Street west of 431st Avenue
GCP058	21017CF	BRITTON 4 SE	bare dirt in middle of field entrance on east side of 432nd Avenue just north of lake
GCP059	21017CG	CLAYTON NE	northwest part of a gravel pull off on the south side of SD44 and east of 429 Avenue.
GCP060	21017CH	VIENNA WEST	asphalt centerline of 432 Avenue and the south edge of SD28.
GCP061	21017CI	DE SMET	dirt centerline of 432 Avenue and the south edge of 204 Street.
GCP062	21017CJ	DE SMET SE	dirt centerline of 432 Avenue and the south edge of 215 Street.
GCP063	21017CK	WOLF CREEK	dirt centerline of a private drive to the east of 431 Avenue.
GCP064	21017CL	BRIDGEWATER WEST	dirt centerline of a drive to the east of 432 Avenue.
GCP065	21017CM	LESTERVILLE	dirt centerline of 432 Avenue and the south edge of 302 Street.
GCP066	21017CN	TABOR NE	asphalt centerline of Sherwood Drive and the east side of SD52.

Station Name	GPSID	USGS Quadrangle	Description
GCP067	21017CO	HOWARD NE	on the apex of 435 Avenue and 220 Street.
GCP068	21017CP	CANOVA SE	dirt centerline of a private drive to the west of SD7.
GCP069	21017CQ	FLORENCE NW	bare ground in center of intersection of 440th Avenue and 154th Street
GCP070	21017CR	LAKE CITY	bare ground in middle of 113th Street on west side of 441st Avenue (SD 25)
GCP071	21017CS	WALLACE	bare dirt road surface on westbound lane of 164th Street at east edge extended of 440th Avenue to the north
GCP072	21017CT	HAZEL	dirt centerline of 440 Avenue and the north edge of 177 Street.
GCP073	21017CU	OLDHAM SW	dirt centerline of 231 Street and the east edge of 439 Avenue.
GCP074	21017CV	VIENNA EAST	dirt centerline of 190 Street and the east edge of 440 Avenue.
GCP075	21017CW	SALEM	dirt centerline of 254 Street and the east edge of 439 Avenue.
GCP076	21017CX	LAKE PRESTON NE	dirt centerline of 442 Avenue and the south edge of 200 Street.
GCP077	21017CY	BRIDGEWATER EAST	dirt centerline of a private drive to the east of US81.
GCP078	21017CZ	WAUBAY	bare road surface at center of 139th Street and east edge of 444th avenue
GCP079	21017DA	VEBLEN NE	bare dirt road surface of eastbound lane of 102nd Street on west side of 446th Avenue (paved)
GCP080	21017DB	LAKE PRESTON EAST	bare ground in middle of 444th Avenue on north side of 212th Street
GCP081	21017DC	MAYFIELD	dirt centerline of 296 Street and the west edge of 442 Avenue.
GCP082	21017DD	FREEMAN SE	dirt centerline of 285 Street and the west edge of 443 Avenue.
GCP083	21017DE	OLDHAM	gravel centerline of a field access on the west edge of SD53.
GCP084	21017DF	MARION	asphalt centerline of 444 Avenue and the north edge of SD44.
GCP085	21017DG	DRYWOOD LAKES	bare ground in middle of field entrance on east side of 448th Avenue
GCP086	21017DH	LONESOME LAKE	bare road surface on eastbound lane of 154th Street
GCP087	21017DI	WINFRED SE	dirt centerline of 447 Avenue and the north edge of 243 Street.
GCP088	21017DJ	MISSION HILL	dirt centerline of a private drive to the west of 447 Avenue.
GCP089	21017DK	LAKE NORDEN	bare road surface on turn radius from 196th Street eastbound to 451st Avenue southbound
GCP090	21017DL	BADGER	bare road surface in southbound lane of 451st Avenue on north side of 206th Street
GCP091	21017DM	MADISON NW	bare ground in southbound lane of 451st Avenue on north side of 217th Street
GCP092	21017DN	EAST VERMILLION LAKE	dirt centerline of a private drive to the east of 450 Avenue.
GCP093	21017DO	PELICAN LAKE	bare road surface on turn radius from 179th Street eastbound to 452nd Avenue southbound
GCP094	21017DP	MONTROSE	asphalt centerline of Valley Road and the north edge of 254 Street.
GCP095	21017DQ	HAYTI	bare ground on field entrance on east side of US 81
GCP096	21017DR	STILL LAKE SE	bare dirt road surface on turn radius from 163rd Street eastbound (dirt) to 455 Avenue southbound (paved)
GCP097	21017DS	WAKONDA	dirt centerline of 454 Avenue and the south edge of 299 Street.
GCP098	21017DT	SINAI	bare road surface in southbound lane of 457th Avenue at center of 221st Street to the east
GCP099	21017DU	MADISON	bare road surface in eastbound lane of 232nd Street on west side of 457th Avenue

Station Name	GPSID	USGS Quadrangle	Description
GCP100	21017DV	PARKER NE	dirt centerline of 456 Avenue and the north edge of 275 Street.
GCP101	21017DW	HURLEY	asphalt centerline of 285 Street and the west edge of SD19.
GCP102	21017DX	BUFFALO TRADING POST	bare ground on southbound lane of 459th Avenue just north of 243rd Street
GCP103	21017DY	PARKER NE	dirt centerline of 459 Avenue and the north edge of 269 Street.
GCP104	21017DZ	SOUTH SHORE	bare road surface on turn radius from E Lakeview Avenue eastbound to 464th Avenue southbound
GCP105	21017EA	KRANZBURG	bare road surface on northbound lane of 464th Avenue at south edge of 171st Street
GCP106	21017EB	BERESFORD NW	dirt centerline of 292 Street and the west edge of 461 Avenue.
GCP107	21017EC	DEMPSTER	bare road surface on turn radius from 183rd Street westbound to 464th Avenue northbound
GCP108	21017ED	ESTELLINE	bare road surface in southbound lane of 464th Avenue on north side of 192nd Street
GCP109	21017EE	HUB CITY	dirt centerline of a field access on the west edge of SD19.
GCP110	21017EF	RUTLAND NW	bare ground in center of field entrance on east side of 465th Avenue south of 221st Street
GCP111	21017EG	BERESFORD	southwest quadrant of the intersection of 467 Avenue and 298 Street.
GCP112	21017EH	VERMILLON SE	asphalt center of 467 Avenue and south side of Railroad Street.
NDFO	PRS996942718	FORMAN	CORS
NVA001	21017EI	TULARE SW	bare dirt road surface of field road (198th Street) on east side of 374th Avenue
NVA002	21017EJ	WESSINGTON SW	bare dirt on turn radius from 375th Avenue to 214th Street
NVA003	21017EK	TULARE SE	bare dirt road surface on turn radius from 382nd Avenue northbound to 193rd Street eastbound
NVA004	21017EL	JOUBERT	dirt centerline of 377 Avenue and the south edge of 269 Street.
NVA005	21017EM	GEDDES	dirt centerline of 277 Street and the east edge of 377 Avenue.
NVA006	21017EN	NEW HOLLAND	dirt centerline of 382 Avenue and the north edge of 270 Street.
NVA007	21017EO	HITCHCOCK SW	bare dirt road surface of northbound lane of 390th Avenue at 195th Street (driveway west)
NVA008	21017EP	WOLSEY	bare dirt road surface in northbound lane of 389th Avenue just north of 205th Street
NVA009	21017EQ	NEW HOLLAND	dirt centerline of 384 Avenue and the south tip of a small grass island in the middle of the intersection.
NVA010	21017ER	ARMOUR SW	dirt centerline of 281 Street and the east edge of 386 Avenue.
NVA011	21017ES	BROADLAND	bare dirt in center of 203rd Street on west side of 394th Avenue
NVA012	21017ET	BROADLAND	bare dirt road surface on turn radius from 206th Street westbound to 395 Avenue northbound
NVA013	21017EU	WOLSEY SE	dirt centerline of 213 Street and the west edge of 397 Avenue.
NVA014	21017EV	ARMOUR SW	center of the intersection of 390 Avenue and 283 Street.
NVA015	21017EW	ARMOUR	dirt centerline of a drive to the south of Huston Street.
NVA016	21017EX	HURON NW	bare dirt in center of filed entrance on east side of SD 37
NVA017	21017EY	TWIN LAKES	dirt centerline of 238 Street and the east edge of 397 Avenue.
NVA018	21017EZ	CORSICA LAKE	dirt centerline of 275 Street and the west edge of 393 Avenue.
NVA019	21017FA	HURON	asphalt center of a cross over along SD37 just south of 216 Street.

Station Name	GPSID	USGS Quadrangle	Description
NVA020	21017FB	MOUNT VERNON	dirt centerline of a drive to 1641 and the west edge of Main Street and south of US16.
NVA021	21017FC	LAKE BYRON	pavement on turn radius from 403rd Avenue southbound to 196th Street westbound
NVA022	21017FD	FORESTBURG SW	dirt centerline of 401 Avenue and the north edge of 228 Street.
NVA023	21017FE	LETCHER SW	dirt centerline of 246 Street and the west edge of 400 Avenue.
NVA024	21017FF	HURON NE	bare dirt in center of field entrance on north side of 202nd Street opposite 405th Avenue south
NVA025	21017FG	LETCHER	dirt centerline of 402 Avenue and the north edge of 236 Street.
NVA026	21017FH	LAKE BYRON SE	bare dirt in center of 195th street on east side of 406th Avenue
NVA027	21017FI	AMHERST	bare dirt road surface on turn radius from 116th Street westbound to 413th Avenue northbound
NVA028	21017FJ	NEWARK SW	bare dirt in center of 414th Avenue just south of end of road
NVA029	21017FK	DELMONT	northwest quadrant of the intersection of 280 Street and 398 Avenue.
NVA030	21017FL	HURON NE	bare dirt in center of 207th Street just west of 406th Avenue
NVA031	21017FM	CAVOUR	bare dirt in road on turn radius from 213rd Street eastbound to 406th Avenue southbound
NVA032	21017FN	DELMONT	dirt centerline of 282 Street and the east edge of 399 Avenue.
NVA033	21017FO	BETTS	dirt centerline of 402 Avenue and the north edge of 256 Street.
NVA034	21017FP	LETCHER SW	dirt centerline of a drive to the west of 403 Avenue.
NVA035	21017FQ	LAKE BYRON SE	bare dirt road surface on turn radius from 408th Avenue northbound to 197th Street eastbound
NVA036	21017FR	ANDOVER SW	bare road surface on turn radius from 147th Street westbound to 413th Avenue northbound
NVA037	21017FS	ANDOVER	bare dirt on field entrance on west side of 414th Avenue just north of US 12
NVA038	21017FT	MITCHELL SW	dirt centerline of 260 Street and the west edge of 403 Avenue.
NVA039	21017FU	NEWARK	bare dirt road surface at north edge of 101st Street at center of field entrance north and south
NVA040	21017FV	LAKE BYRON SE	sparse grass in middle of field entrance on west side of 410th Avenue opposite 193rd Street
NVA041	21017FW	LANGFORD SW	bare road surface on turn radius from 416th Avenue northbound to 126th Street eastbound
NVA042	21017FX	BETTS	dirt centerline of 404 Avenue and the north edge of 257 Street.
NVA043	21017FY	HURON NE	bare dirt road surface on turn radius from 202nd Street westbound to 409th Avenue northbound
NVA044	21017FZ	LETCHER NE	dirt centerline of 406 Avenue and the north edge of 241 Street.
NVA045	21017GA	LOOMIS	dirt centerline of 406 Avenue and the south edge of 244 Street.
NVA046	21017GB	FORDHAM DAM	bare ground in middle of field entrance on west side of 413rd Avenue opposite 174th Street to the east
NVA047	21017GC	DELMONT	dirt centerline of 277 Street and the east edge of 403 Avenue.
NVA048	21017GD	SPAIN	bare dirt road surface on turn radius from 121st Street eastbound to 418th Avenue southbound
NVA049	21017GE	DELMONT NE	dirt centerline of 269 Street and the east edge of 404 Avenue.
NVA050	21017GF	FORDHAM DAM	bare road surface on turn radius from 413th Avenue southbound to 179th Street westbound
NVA051	21017GG	FORESTBURG	asphalt centerline of 408 Avenue and the south edge of SD34.
NVA052	21017GH	CAVOUR	bare dirt road surface on turn radius from 215th Street eastbound to 410th Avenue southbound

Station Name	GPSID	USGS Quadrangle	Description
NVA053	21017GI	CROCKER SW	bare road surface on turn radius from 164th Street eastbound to 415th Avenue southbound
NVA054	21017GJ	LOOMIS	dirt centerline of 248 Street and the east edge of 407 Avenue.
NVA055	21017GK	DELMONT NE	dirt centerline of 404 Avenue and the north edge of 275 Street.
NVA056	21017GL	FORESTBURG NE	dirt centerline of 410 Avenue and the north edge of 222 Street.
NVA057	21017GM	BRITTON WEST	bare dirt road surface in middle of cemetery road on south side of SD 10 just south of twin brick pillars
NVA058	21017GN	DELMONT SE	dirt centerline of 282 Street and the east edge of 405 Avenue.
NVA059	21017GO	ARTESIAN NW	dirt centerline of 225 Street and the west edge of 411 Avenue.
NVA060	21017GP	DELMONT NE	dirt centerline 407 Avenue and the south edge of 270 Street.
NVA061	21017GQ	BRISTOL WEST	bare road surface on turn radius from 147th Street eastbound to 419th Avenue southbound
NVA062	21017GR	NEWARK	bare dirt in center of 103rd Street on west side of 423rd Avenue
NVA063	21017GS	OAK HOLLOW	center of a pull off on the north edge of 292 Street.
NVA064	21017GT	CARPENTER	bare road surface on turn radius from 185th Street eastbound to 416th Avenue southbound
NVA065	21017GU	SHOEMAKER DAM	dirt centerline of 260 Street and the west edge of 409 Avenue.
NVA066	21017GV	CROCKER	old pavement in middle of 419th Avenue on north side of SD 20
NVA067	21017GW	CROCKER	bare dirt in center of 159th Street on east side of 419th Avenue
NVA068	21017GX	SPAIN	bare ground in center of 117th Street on east side of SD 27
NVA069	21017GY	PIERPONT	bare dirt on field entrance on north side of 136th Street just west of 421A Avenue to the south
NVA070	21017GZ	BAILEYS LAKE	bare road surface on turn radius from 166th Street eastbound to 419th Avenue southbound
NVA071	21017HA	RAYMOND SE	bare ground in center of field entrance on east side of 418th Avenue opposite 181st Street
NVA072	21017HB	RIVERSIDE	dirt centerline of a field access on the west edge of 411 Avenue.
NVA073	21017HC	RIVERSIDE	dirt centerline of 411 Avenue and the south edge of 257 Street.
NVA074	21017HD	YALE	dirt centerline of 207 Street and the east edge of 416 Avenue.
NVA075	21017HE	BAILEYS LAKE	bare road surface on turn radius from 420th Avenue southbound to 167th Street westbound
NVA076	21017HF	CROCKER	bare dirt in middle of 421st Avenue south of 158th Street
NVA077	21017HG	PEARL CREEK COLONY	bare dirt in middle of 416th Avenue just north of 213rd Street
NVA078	21017HH	CROCKER	bare ground in center of 164th Street on west side of 421st Avenue
NVA079	21017HI	FARWELL NW	dirt centerline of 242 Street and the east edge of 414 Avenue.
NVA080	21017HJ	ETHAN	dirt centerline of 412 Avenue and the south edge of 264 Street.
NVA081	21017HK	OAK HOLLOW	dirt centerline of 293 Street and the west edge of 409 Avenue.
NVA082	21017HL	FARWELL	dirt centerline of 245 Street and the west edge of 414 Avenue.
NVA083	21017HM	BRITTON 4 SW	bare dirt road surface on turn radius from 425th Avenue northbound to driveway to 12936 eastbound
NVA084	21017HN	BRITTON EAST	bare dirt in center of 106th Street and center of 427th Street
NVA085	21017HO	NIOBRARA NE	dirt centerline of 310 Street and the west edge of 409 Avenue.

Station Name	GPSID	USGS Quadrangle	Description
NVA086	21017HP	BAILEYS LAKE	bare ground on turn radius from 171st Street westbound to 423rd Avenue northbound
NVA087	21017HQ	BRITTON 4 SW	bare dirt in middle of 125th Street (field entrance) on east side of 427th Avenue
NVA088	21017HR	BRITTON 4 SW	center of 128th Street west of 427th Avenue
NVA089	21017HS	SPRINGFIELD	asphalt centerline of 313 Street and the east edge of 410 Avenue.
NVA090	21017HT	ARTESIAN NE	dirt centerline of 419 Avenue and the north edge of 222 Street.
NVA091	21017HU	BRISTOL EAST	bare ground in center of intersection of 147th Street and 426th Avenue
NVA092	21017HV	MORRIS LAKE	dirt centerline of 234 Street and the east edge of 418 Avenue.
NVA093	21017HW	HAUCKS LAKE	dirt centerline of 412 Avenue and the south edge of 299 Street.
NVA094	21017HX	ETHAN	dirt centerline of 261 Street and the west edge of 416 Avenue.
NVA095	21017HY	CARPENTER SE	dirt centerline of 198 Street and the west edge of 422 Avenue.
NVA096	21017HZ	IROQUOIS	dirt centerline of 210 Street and the west edge of 421 Avenue.
NVA097	21017IA	IROQUOIS	dirt centerline of 421 Avenue and the north edge of 212 Street.
NVA098	21017IB	CLARK NORTH	bare ground on field road in southeast quadrant of 425th Avenue and 172nd Street
NVA099	21017IC	NESS CHAIN LAKES	dirt centerline of a private drive to the south of SD17.
NVA100	21017ID	BEARDSLEY	dirt centerline of 280 Street and the east edge of 415 Avenue.
NVA101	21017IE	FEDORA	dirt centerline of a private drive to the north of 228 Street.
NVA102	21017IF	LYNN LAKE	bare dirt road surface in center of 135th Street (flooded east and west) on east side of 429th Avenue
NVA103	21017IG	BRISTOL EAST	bare ground in middle of faint road on north side of 147th Street opposite 428th Avenue to the south
NVA104	21017IH	BEARDSLEY	dirt centerline of 416 Avenue and the north edge of 277 Street.
NVA105	21017II	FEDORA	dirt centerline of 232 Street and the east edge of 421 Avenue.
NVA106	21017IJ	WILLOW LAKE SW	dirt centerline of 194 Street and the east edge of 425 Avenue.
NVA107	21017IK	FEDORA	dirt centerline of 422 Avenue and the south edge of 227 Street.
NVA108	21017IL	ALEXANDRIA	dirt centerline of 420 Avenue and the south edge of 252 Street.
NVA109	21017IM	KAYLOR	dirt centerline of 416 Avenue and the north edge of 292 Street.
NVA110	21017IN	WILLOW LAKE SW	dirt centerline of 426 Avenue and the south edge of 191 Street.
NVA111	21017IO	CLARK NORTH	bare road surface on turn radius from 171st Street westbound to 428th Avenue northbound
NVA112	21017IP	KIDDER SE	bare ground in middle of field road north to shed on north side of 111th Street
NVA113	21017IQ	CLARK SOUTH	bare dirt in center of 177th Street at top of hill
NVA114	21017IR	TRIPP SE	dirt centerline of 298 Street and the west edge of 416 Avenue.
NVA115	21017IS	BANCROFT EAST	dirt centerline of 199 Street.
NVA116	21017IT	PARKSTON SE	asphalt centerline of 281 Street and the east edge of 418 Avenue.
NVA117	21017IU	SWAN LAKE	bare road surface in middle of 431st Avenue at south edge of 148th Street
NVA118	21017IV	WEBSTER	bare ground in center of 432 Avenue just north of 143rd street

Station Name	GPSID	USGS Quadrangle	Description
NVA119	21017IW	MORRIS LAKE	dirt centerline of 423 Avenue and the north edge of 242 Street.
NVA120	21017IX	TYNDALL	dirt centerline of 305 Street and the east edge of 417 Avenue.
NVA121	21017IY	GARDEN CITY	bare road surface in intersection of 165th Street and 431st Avenue. Point is at west edge extended of 431st Avenue and south edge extended of 165th Street
NVA122	21017IZ	HILLHEAD	bare road surface on turn radius from 111th Street westbound to 436th Avenue northbound
NVA123	21017JA	VIENNA WEST	dirt centerline of 430 Avenue and the north edge of 182 Street.
NVA124	21017JB	FARMER	dirt centerline of 423 Avenue and the south edge of 258 Street.
NVA125	21017JC	MILLTOWN	dirt centerline of 422 Avenue and the south edge of 268 Street.
NVA126	21017JD	HILLHEAD	bare dirt road surface of Boundary Road where it turns from E-W to N-S
NVA127	21017JE	ROSWELL	dirt centerline of 426 Avenue and the north edge of 231 Street.
NVA128	21017JF	GARDEN CITY	bare road surface in eastbound lane of 169th Street on west side of 432nd Avenue
NVA129	21017JG	WEBSTER NE	bare ground in middle of field entrance on west side of SD 25 opposite 136th Street
NVA130	21017JH	KAYLOR	dirt centerline of 420 Avenue and the north edge of 293 Street.
NVA131	21017JI	ROSLYN	bare dirt road surface on turn radius from 436th Avenue southbound to 132nd Street westbound
NVA132	21017JJ	PARKSTON SE	dirt centerline of 422 Avenue and the south edge of 284 Street.
NVA133	21017JK	MARLOW	bare dirt on field entrance on south side of 101st Street just west of 440th Avenue to the north
NVA134	21017JL	FARMER	dirt centerline of 251 Street and the east edge of 426 Avenue.
NVA135	21017JM	TYNDALL	dirt centerline of a field track to the north of 306 Street.
NVA136	21017JN	VIENNA WEST	asphalt centerline of 184 Street and the west side of SD25.
NVA137	21017JO	TYNDALL	east side of 421 Avenue just south of SD52 under construction.
NVA138	21017JP	WALLACE	bare road surface on turn radius from 156th Street eastbound to 436th Avenue southbound
NVA139	21017JQ	BITTER LAKE	asphalt centerline of 428 Avenue and the south edge of 242 Street.
NVA140	21017JR	DE SMET	dirt centerline of 432 Avenue and the north edge of 200 Street.
NVA141	21017JS	HILLHEAD	bare ground on field entrance on east side of SD 25 opposite driveway west
NVA142	21017JT	HOWARD	dirt centerline of 225 Street and the east edge of 430 Avenue.
NVA143	21017JU	EDEN	bare road surface on turn radius from 128th Street eastbound to 440th Avenue southbound
NVA144	21017JV	CHERRY LAKE	dirt centerline of 194 Street and the east edge of 434 Avenue.
NVA145	21017JW	TABOR	dirt centerline of 423 Avenue. and the north edge of 308 Street
NVA146	21017JX	SCOTLAND	dirt centerline of 425 Avenue and the south edge of 289 Street.
NVA147	21017JY	KLOUCEK LAKE	asphalt centerline of a field access on the east edge of SD25.
NVA148	21017JZ	TSCHETTER COLONY	intersection of Colony Road and 279 Street.
NVA149	21017KA	HAZEL	dirt centerline of 436 Avenue and the north edge of 180 Street.
NVA150	21017KB	FLORENCE NW	bare ground in center of 151st Street east of 439th Avenue

Station Name	GPSID	USGS Quadrangle	Description
NVA151	21017KC	WAUBAY SW	bare road surface in center of 440th Avenue at south edge of 139th Street
NVA152	21017KD	ROSLYN	dirt parking lot in southwest quadrant of intersection of 132nd Street (Kosciusko Avenue) and CR 6 (St Joseph Street)
NVA153	21017KE	TSCHETTER COLONY	northwest quadrant of the intersection of 427 Avenue and 283 Street.
NVA154	21017KF	WALLACE	bare dirt road surface in center of 439th Avenue on south side of 161st Street
NVA155	21017KG	HAZEL	dirt centerline of 174 Street and the east edge of 438 Avenue.
NVA156	21017KH	ENEMY SWIM LAKE WEST	bare dirt in middle of road just south of 133rd Street
NVA157	21017KI	VEBLEN	bare road surface in southbound lane of 445th Avenue at north edge of 110th Street extended
NVA158	21017KJ	DE SMET SE	dirt centerline of 215 Street and the east edge of 435 Avenue.
NVA159	21017KK	HOWARD NE	dirt centerline of 217 Street and the west edge of 435 Avenue.
NVA160	21017KL	BRYANT	dirt centerline of 437 Avenue and the north edge of 197 Street.
NVA161	21017KM	CANOVA WEST	dirt centerline of 240 Street and the east edge of 433 Avenue.
NVA162	21017KN	ERWIN	dirt centerline of 437 Avenue and the north edge of 200 Street.
NVA163	21017KO	SOUTH RED IRON LAKE	bare road surface in middle of 445th Avenue just west of SD 10
NVA164	21017KP	SPENCER	dirt centerline of 432 Avenue and the north edge of 258 Street.
NVA165	21017KQ	PIYAS LAKE	mowed grass on north side of road to boat launch (opposite 124th Street) and west of 445th Street
NVA166	21017KR	TABOR	northwest quadrant of the intersection of 307 Street and 428 Avenue.
NVA167	21017KS	OLDHAM SW	dirt centerline of 436 Avenue and the south edge of 228 Street.
NVA168	21017KT	WAUBAY	bare road surface in northbound lane of 444th Avenue at south edge extended of 143rd Street
NVA169	21017KU	LAKE PRESTON WEST	gravel centerline of North Shore Road and the south edge of Flood Club Road.
NVA170	21017KV	CANOVA EAST	dirt centerline of a private drive to the east of 436 Avenue.
NVA171	21017KW	OLDHAM SW	dirt centerline of 226 Street and the west edge of 437 Avenue.
NVA172	21017KX	ENEMY SWIM LAKE WEST	sparse mowed grass on north side of Woodland Park Drive on east side of 446th Avenue
NVA173	21017KY	FLORENCE NE	bare ground on turn radius from 155th Street westbound to 444th Avenue northbound
NVA174	21017KZ	VIENNA EAST	dirt centerline of 441 Avenue and the south edge of 187 Street.
NVA175	21017LA	TABOR NE	dirt centerline of a private drive on the south edge of 304 Street.
NVA176	21017LB	BRIDGEWATER WEST	asphalt centerline of 434 Avenue and the north side of SD262.
NVA177	21017LC	FLORENCE	bare ground on turn radius from 160th Street westbound to 444th Avenue northbound
NVA178	21017LD	WAUBAY	bare dirt in middle of cul-de-sac at northeast end of E Lakeshore Drive
NVA179	21017LE	BRYANT NE	dirt centerline of 442 Avenue and the north edge of 188 Street.
NVA180	21017LF	BRIDGEWATER WEST	dirt centerline of a field access on the east side of 435 Avenue.
NVA181	21017LG	DRYWOOD LAKES	bare ground in center of 129th Street east of 448th Avenue
NVA182	21017LH	FLORENCE	bare road surface on turn radius from 445th Avenue northbound to 165th Street eastbound

Station Name	GPSID	USGS Quadrangle	Description
NVA183	21017LI	WAUBAY	bare road surface in center of 145th Street on east side of 447th Avenue
NVA184	21017LJ	ENEMY SWIM LAKE EAST	bare road surface on southbound lane of 448th Street just south of 136th Street
NVA185	21017LK	GROVER	dirt centerline of 444 Avenue and the north edge of 179 Street.
NVA186	21017LL	TABOR NE	dirt centerline of 305 Street and the east edge of 432 Avenue.
NVA187	21017LM	TABOR NE	dirt centerline of Janousek Road and the east edge of 432 Avenue.
NVA188	21017LN	UNITYVILLE	dirt centerline of 439 Avenue and the north tip of a small grass island and the north side of 244 Street.
NVA189	21017LO	SALEM	dirt north side of Gottlob Place on the north side of SD38.
NVA190	21017LP	BRIDGEWATER EAST	dirt centerline of 440 Avenue and the south edge of 267 Street.
NVA191	21017LQ	YANKTON	dirt centerline of 436 Avenue and the south side of 306 Street.
NVA192	21017LR	WINFRED SE	dirt centerline of 249 Street and the east edge of 442 Avenue.
NVA193	21017LS	OLDHAM	dirt centerline of 219 Street and the west edge of 445 Avenue.
NVA194	21017LT	WATERTOWN WEST	bare dirt in middle of field entrance on north side of N Lake Drive opposite Cutts Avenue NW
NVA195	21017LU	WATERTOWN WEST	bare dirt in mowed grass area on north side of Golf Course Road just east of intersection with Lake Drive S
NVA196	21017LV	DOLTON	dirt centerline of 441 Avenue and the south edge of 273 Street.
NVA197	21017LW	OLDHAM SE	dirt centerline of a field access on the east side of 446 Avenue.
NVA198	21017LX	OLDHAM	asphalt centerline of 447 Avenue and the north edge of 223 Street.
NVA199	21017LY	STILL LAKE	bare dirt road surface on turn radius from 453rd Avenue southbound (dirt) to 164th Street westbound (paved)
NVA200	21017LZ	HAYTI	bare road surface at east edge of 451st Avenue at field entrance east just north of SD 21
NVA201	21017MA	MARION	asphalt centerline of 443 Avenue and the north edge of 269 Street.
NVA202	21017MB	YANKTON	dirt centerline of Prairie Circle and the west edge of Peninnah Street.
NVA203	21017MC	LAKE MADISON SW	asphalt centerline of 448 Avenue and the south edge of 245 Street.
NVA204	21017MD	LAKE HERMAN	dirt centerline of 449 Avenue and the south edge of 236B Street.
NVA205	21017ME	WATERTOWN SE	bare ground in middle of field entrance on west side of US 81
NVA206	21017MF	LAKE MADISON SW	asphalt centerline of 250 Street and the east edge of 448 Avenue.
NVA207	21017MG	WATERTOWN SE	bare ground in middle of field entrance in southwest quadrant of intersection of 180th Street and 456th Avenue
NVA208	21017MH	MADISON NW	dirt centerline of 453 Avenue and the north edge of 223 Street.
NVA209	21017MI	STILL LAKE SE	bare road surface in eastbound lane of 161th Street just east of 459th Avenue and south of railroad crossing
NVA210	21017MJ	MISSION HILL	dirt centerline of a private drive to the west of 445 Avenue.
NVA211	21017MK	PARKER SW	dirt centerline of 448 Avenue and the south edge of 280 Street.
NVA212	21017ML	MAYFIELD	dirt centerline of 447 Avenue and the south edge of 295 Street.
NVA213	21017MM	LAKE MADISON SW	dirt centerline of 250 Street and the east edge of 452 Avenue.
NVA214	21017MN	SOUTH SHORE	bare road surface on turn radius from 163rd Street westbound to 461st Avenue northbound

Station Name	GPSID	USGS Quadrangle	Description
NVA215	21017MO	CENTER POINT	asphalt centerline of 449 Avenue and the south side of 286 Street.
NVA216	21017MP	WATERTOWN SE	bare road surface on turn radius from 460th Avenue northbound to 179th Street eastbound
NVA217	21017MQ	LAKE POINSETT	bare road surface on turn radius from 191st Street westbound to 459th Avenue northbound
NVA218	21017MR	KRANZBURG	bare road surface on turn radius from 166th Street eastbound to 463rd Avenue southbound
NVA219	21017MS	KRANZBURG SW	bare road surface on turn radius from 181st Street westbound to 462nd Avenue northbound
NVA220	21017MT	MADISON	bare road surface on turn radius from 459th Avenue (dirt) northbound to 228th Street (paved) eastbound
NVA221	21017MU	GAYVILLE	dirt centerline of Bluff Road and west edge of 452 Avenue.
NVA222	21017MV	LAKE MADISON	bare road surface in southbound lane of 460th Avenue on north side of 236th Street
NVA223	21017MW	WAKONDA	dirt centerline of 454 Avenue and the south edge of 296 Street.
NVA224	21017MX	PARKER NE	centerline of a dirt parking lot for a church on the east side of 457 Avenue and north from 272 Street.
NVA225	21017MY	PARKER NE	dirt centerline of the drive to Bones Elevator on the east edge of 458 Avenue.
NVA226	21017MZ	GAYVILLE NE	dirt centerline of 455 Avenue and north edge of 311 Street.
NVA227	21017NA	RUTLAND NW	bare road surface on turn radius from 464th Avenue southbound to 222nd Street westbound
NVA228	21017NB	HURLEY	dirt centerline of 282 Street and the west edge of 459 Avenue.
NVA229	21017NC	WENTWORTH	gravel parking lot for ball field on south side of 5th Street and west side of 3rd Avenue
NVA230	21017ND	RUTLAND	bare road surface on turn radius from 465th Street southbound to 232nd Street westbound
NVA231	21017NE	VIBORG	dirt centerline of 286 Street and the west edge of 460 Avenue.
NVA232	21017NF	BERESFORD NW	dirt centerline of 293 Street and the west edge of 461 Avenue.
NVA233	21017NG	CENTERVILLE	asphalt centerline of 298 Street and the west edge of SD19.
NVA234	21017NH	VERMILLON	concrete center of the Over Drive cul-de-sac.
NVA235	21017NI	HUB CITY	dirt centerline of 307 Street and the east edge of University Road.
NVA236	21017NJ	VERMILLON	dirt at the split of Walkers Lane and a drive to the west.
NVA237	21017NK	VERMILLON SE	west edge of 468 Avenue and a pull off and opposite a drive to 2 silos.
NVA238	21017NL	ALSEN	dirt centerline of Prairie Street and the west edge of 469 Avenue.
SDBE	PRS830594415	BERESFORD	CORS
SDBK	PRS130935352	BROOKINGS	CORS
SDBR	PRS687392756	BRITTON WEST	CORS
SDCL	PRS437922444	CLARK NORTH	CORS
SDCO	PRS657151374	CONDE	CORS
SDDE	PRS362080334	DE SMET	CORS
SDEL	PRS446474854	ELK POINT	CORS
SDFR	PRS843285060	FREEMAN	CORS
SDH2	PRS138622485	HURON	CORS
SDLA	PRS190622197	LAKE ANDES	CORS
SDME	PRS253229457	MITCHELL	CORS
SDMI	PRS951418102	MITCHELL	CORS
SDML	PRS962064837	MILLER	CORS
SDMO	PRS284786311	MENNO	CORS
SDMS	PRS401433489	MADISON	CORS
SDPT	PRS237672809	PLATE	CORS
SDSA	PRS480651133	SALEM	CORS

Station Name	GPSID	USGS Quadrangle	Description
SDSF	PRS259234895	SIOUX FALLS WEST	CORS
SDSI	PRS930393933	SISSETON	CORS
SDSP	PRS430425936	SPRINGFIELD	CORS
SDTR	PRS574243535	TRIPP	CORS
SDWE	PRS282453383	WEBSTER	CORS
SDWS	PRS421221996	WESSINGTON SPRINGS	CORS
SDWT	PRS369213478	WATERTOWN EAST	CORS
SDYA	PRS962726199	YANKTON	CORS
VVAF001	21017TJ	AVON	southeast from a cell tower on the south side of 302 Street and north of SD50.
VVAF002	21017TK	BRISTOL EAST	woods on south side of 143rd Street west of 425th Avenue
VVAF003	21017TL	HAVANA	center old woods road on north side of 104th Street at bridge over creek
VVAF004	21017TM	BRADLEY	mowed grass under large trees in northeast quadrant of intersection of Ball Park Road and Bentley Avenue just north of pavilion
VVAF005	21017TN	ROSLYN	woods on south side of 134th Street
VVAF006	21017TO	TABOR NE	south side of 310 Street.
VVAF007	21017TP	HAZEL	trees on the west side of SD22 and north of SD181.
VVAF008	21017TQ	ENEMY SWIM LAKE WEST	woods in northwest quadrant of intersection of 132nd Street and Huggett Lane-entrance to Pickerel Lake Lodge
VVAF009	21017TR	BRYANT NE	tree line on the east side of 442 Avenue.
VVAF010	21017TS	YANKTON	tree line on the south side of Kaiser Road
VVAF011	21017TT	MISSION HILL	south from Hideaway Road and 306 Street.
VVAF012	21017TU	PARKER SW	north side of 285 Street and west from a creek.
VVAF013	21017TV	MISSION HILL	trees on the north side of Wildwood Drive near cul-de-sac.
VVAF014	21017TW	TURKEY RIDGE	east side of 446 Avenue
VVANF001	21017NM	WESSINGTON	high grass on north side of 205th Street east of 375th Avenue
VVANF002	21017NN	WESSINGTON	high grass on north side of 200th Street opposite 376th Avenue to the south
VVANF003	21017NO	WESSINGTON SPRINGS NW	high grass on field entrance on west side of 375th Avenue
VVANF004	21017NP	WESSINGTON SW	high grass in southeast corner of field in northwest quadrant of intersection of 377th Avenue and 211th Street
VVANF005	21017NQ	WESSINGTON NE	high grass on north side of 206th Street just west of 385th Avenue to the south
VVANF006	21017NR	NEW HOLLAND	center of an old road grade on the north side of 273 Street.
VVANF007	21017NS	HITCHCOCK SW	high grass in northeast quadrant of intersection of 197th Street and 389th Avenue
VVANF008	21017NT	VIRGIL	high grass on south side of 212th Street just west of N-S fence line
VVANF009	21017NU	ALPENA	southeast of the intersection of 219 Street and 394 Avenue.
VVANF010	21017NV	WOLSEY SE	north side of 212 Street and opposite 395 Avenue.
VVANF011	21017NW	HITCHCOCK SE	high grass on south side of 193rd Street and east side of 397th Avenue (field road)
VVANF012	21017NX	ARMOUR SW	field on the northeast of the intersection of 281 Street and 388 Avenue.
VVANF013	21017NY	STORLA	southwest of the intersection of 395 Avenue and 248 Street.
VVANF014	21017NZ	ALPENA	northwest from the intersection of 218 Street and 398 Avenue.
VVANF015	21017OA	LAKE BYRON	high grass on old roadbed of 198th Street at west edge of lake
VVANF016	21017OB	ALPENA	northwest of the intersection of 223 Street and 398 Avenue.

Station Name	GPSID	USGS Quadrangle	Description
VVANF017	210170C	OLD STICKNEY LAKE	southwest of the intersection of 395 Avenue and 265 Street.
VVANF018	210170D	MOUNT VERNON	field on the west side of 397 Avenue and north of 256 Street and just north of a radio tower.
VVANF019	210170E	LAKE BYRON	high grass on south side of 199th Street on east side of field entrance
VVANF020	210170F	HURON NE	high grass in southwest quadrant of intersection of 405th Avenue and 205th Street
VVANF021	210170G	LAKE BYRON SE	high grass in northwest quadrant of intersection of 407th Avenue and 196th Street
VVANF022	210170H	MITCHELL SW	field on the southeast of the intersection of 260 Street and 401 Avenue.
VVANF023	210170I	LETCHER SW	north shoulder of 244 Street and east of 403 Avenue.
VVANF024	210170J	DELMONT	field on the southwest of the intersection of 399 Avenue and 279 Street.
VVANF025	210170K	FORESTBURG NE	north shoulder of 223 Street and east from 405 Avenue.
VVANF026	210170L	CAVOUR	high grass on north side of 216th Street just west of field entrance and east of damaged bridge
VVANF027	210170M	ANDOVER SW	high grass on east side of 414th Avenue and on north side of field entrance
VVANF028	210170N	HURON NE	high grass in northwest quadrant of intersection of 409th Avenue and 204th Street
VVANF029	210170O	BRITTON WEST	high grass on north side of 106th Street extended and east side of 418th Avenue extended
VVANF030	210170P	FORESTBURG	west shoulder of 408 Avenue and north of a field access to the west.
VVANF031	210170Q	ANDOVER SW	high grass in northeast quadrant of intersection of 417th Avenue and 140th Street
VVANF032	210170R	PEARL CREEK COLONY	high grass on north side of 210th street on east side of 411th Avenue in field entrance
VVANF033	210170S	SHOEMAKER DAM	east shoulder of 406 Avenue and just north from 266 Street.
VVANF034	210170T	LOOMIS	field on the southeast of the intersection of 246 Street and 408 Avenue.
VVANF035	210170U	PIERPONT	high grass in northwest quadrant of intersection of SD 27 and 133rd Street
VVANF036	210170V	MITCHELL	east shoulder of 408 Avenue and south of 258 Street.
VVANF037	210170W	PEARL CREEK COLONY	high grass in northeast quadrant of intersection of 413rd Avenue and 213rd Street
VVANF038	210170X	AVON	southeast of the intersection of 295 Street and 405 Avenue.
VVANF039	210170Y	FARWELL	field on the north side of 243 Street
VVANF040	210170Z	CARPENTER	north of 189 Street and east of 417 Avenue.
VVANF041	21017PA	PEARL CREEK COLONY	high grass on west side of 415th Avenue on south side of field entrance
VVANF042	21017PB	SHOEMAKER DAM	northeast of the intersection of SD37 and 266 Street.
VVANF043	21017PC	FARWELL NW	west shoulder of SD35 and south from 236 Street.
VVANF044	21017PD	BRITTON 4 NW	high grass in northeast quadrant of intersection of 425th Avenue and 116th Street
VVANF045	21017PE	CARPENTER SE	island at the intersection of 196 Street and 418 Avenue.
VVANF046	21017PF	ARTESIAN	field on the east side of North 5th Street and south of SD34.
VVANF047	21017PG	RIVERSIDE	east shoulder of SD1 and north of the drive to Rock Creek Lodge.
VVANF048	21017PH	CARPENTER NE	southwest of the intersection of SD28 and 419 Avenue.
VVANF049	21017PI	NIOBRARA	north side of 312 Street and east of 408 Avenue and in front of an old schoolhouse.
VVANF050	21017PJ	RAYMOND SE	high grass in southwest quadrant of intersection of 421st Avenue and 178th Street near northeast corner of field
VVANF051	21017PK	ARTESIAN NE	field on the northeast of the intersection of 417 Avenue and 222 Street.

Station Name	GPSID	USGS Quadrangle	Description
VVANF052	21017PL	TRIPP	east shoulder of SD37 and just south of the intersection with 287 Street.
VVANF053	21017PM	BRITTON 4 NW	high grass on east side of 428th Avenue and on south side of field road opposite 113th Street to the west
VVANF054	21017PN	BRADLEY	high grass on north side of 164th Street opposite 424th Avenue to the south
VVANF055	21017PO	HAUCKS LAKE	north side of SD46 and west of SD37.
VVANF056	21017PP	MORRIS LAKE	north shoulder of 242 Street and east from 417 Avenue.
VVANF057	21017PQ	PARKSTON	northeast of the intersection of 272 Street and 414 Avenue.
VVANF058	21017PR	PARKSTON	east shoulder of 414 Avenue.
VVANF059	21017PS	KINGSBURG	north shoulder of SD50 and just east from 412 Avenue.
VVANF060	21017PT	BEARDSLEY	west shoulder of 414 Avenue and south from 283 Street.
VVANF061	21017PU	WILLOW LAKE	south side of 185 Street and west from 424 Avenue.
VVANF062	21017PV	ROCKPORT COLONY	south shoulder of 263 Street and east of 417 Avenue.
VVANF063	21017PW	LILY	high grass in middle of field entrance on west side of 428th Avenue at barricade at south end of road opposite private drive to the SE
VVANF064	21017PX	BRITTON 4 SE	high weeds inside fence in northwest quadrant of intersection of 124th Street and 431st Avenue
VVANF065	21017PY	IROQUOIS	north shoulder of US14 and east of 423 Avenue.
VVANF066	21017PZ	SPRINGFIELD	field on the north side of 314 Street.
VVANF067	21017QA	BRITTON 4 SE	high grass on north side of 126th Street and west side of 431st Avenue (field road)
VVANF068	21017QB	HAVANA	high grass in northwest quadrant of intersection of 101st Street and 433rd Avenue
VVANF069	21017QC	SPRINGFIELD	field on the north side of Springfield cemetery on the west side of 414 Avenue.
VVANF070	21017QD	FEDORA	field on the southwest of the intersection of 230 Street and 422 Avenue.
VVANF071	21017QE	MILLTOWN	north shoulder of 272 Street and west of 418 Avenue.
VVANF072	21017QF	CARTHAGE	south shoulder of 218 Street and east of SD14.
VVANF073	21017QG	BRITTON 4 SE	high grass in northwest quadrant of intersection of 434th Avenue and 122nd Street in front of livestock gate
VVANF074	21017QH	SWAN LAKE	high grass in southeast quadrant of intersection of 150th Street and 432nd Avenue
VVANF075	21017QI	BITTER LAKE	field on the east side of 424 Avenue and south of 237 Street.
VVANF076	21017QJ	WILLOW LAKE SW	northeast of the intersection of 195 Street and 428 Avenue.
VVANF077	21017QK	KAYLOR	southwest corner of a field on the east side of 419 Avenue.
VVANF078	21017QL	TRIPP SE	south shoulder of 295 Street and west of 419 Avenue.
VVANF079	21017QM	CARTHAGE	northwest of the intersection of 428 Avenue and 219 Street.
VVANF080	21017QN	GARDEN CITY	high grass on south side of 167th Street and east side of 433rd Avenue to the north extended
VVANF081	21017QO	TRIPP SE	field on the east side of 420 Avenue and south of 300 Street.
VVANF082	21017QP	HILLHEAD	high grass in northwest quadrant of intersection of 111th Street and Guy Road
VVANF083	21017QQ	CLAYTON	grass on the northeast of the intersection of 268 Street and 426 Avenue.
VVANF084	21017QR	WAUBAY SW	high grass on south side of 147th Street east of 438th Avenue
VVANF085	21017QS	VEBLEN	high grass in middle of field entrance on north side of 109th Street
VVANF086	21017QT	WAUBAY SW	high grass on south side of US 12 and west side of field entrance opposite driveway north
VVANF087	21017QU	SOUTH RED IRON LAKE	high grass on west side of 442nd Avenue on south side of field road west south of 120th Street
VVANF088	21017QV	VEBLEN NE	high grass on south side of 102nd Street and west side of 444th Avenue extended

Station Name	GPSID	USGS Quadrangle	Description
VVANF089	21017QW	DE SMET SE	field on the north side of 213 Street.
VVANF090	21017QX	SPENCER	southwest of the intersection of 255 Street and 430 Avenue.
VVANF091	21017QY	BRYANT	north shoulder of 193 Street and west of 436 Avenue.
VVANF092	21017QZ	TSCHETTER COLONY	northeast of the intersection of Colony Road and 428 Avenue.
VVANF093	21017RA	ERWIN	southeast from the intersection of 201 Street and 436 Avenue.
VVANF094	21017RB	TABOR	southwest shoulder of 307 Street and 426 Avenue.
VVANF095	21017RC	WAUBAY	high grass on west side of 443rd Avenue just south of 140th Street
VVANF096	21017RD	HAZEL	southeast of the intersection of 440 Avenue and 174 Street.
VVANF097	21017RE	BRIDGEWATER WEST	field on the east side of 432 Avenue and south from 265 Street.
VVANF098	21017RF	CLAYTON NE	east shoulder of 431 Avenue and south of a drive.
VVANF099	21017RG	LAKE PRESTON WEST	north shoulder of US145 and east from 438 Avenue.
VVANF100	21017RH	VEBLEN	high grass on north side of 108th Street just east of field entrances north and south
VVANF101	21017RI	ERWIN	south of the intersection of 439 Avenue and 205 Street.
VVANF102	21017RJ	CANOVA EAST	south side of 238 Street and west from 436 Avenue.
VVANF103	21017RK	CANOVA SE	east shoulder of 435 Avenue and north from 250 Street.
VVANF104	21017RL	ENEMY SWIM LAKE WEST	high grass in fallow field on north side of 136th Street east of 446th Avenue
VVANF105	21017RM	KAMPESKA	high grass on north side of 169th Street just west of 443rd Avenue to the north
VVANF106	21017RN	WOLF CREEK	southeast of the intersection of 280 Street and 433 Avenue.
VVANF107	21017RO	CANOVA EAST	northeast of the intersection of 241 Street and 438 Avenue.
VVANF108	21017RP	ENEMY SWIM LAKE EAST	high grass in ditch on east side of 448th Avenue just north of 137th Street and on north side of field entrance
VVANF109	21017RQ	FLORENCE NE	high grass in southeast quadrant of intersection of 447th Avenue and 109th Street
VVANF110	21017RR	FLORENCE NE	high gras in roadside ditch on east side of 447th Avenue just south of field entrance
VVANF111	21017RS	OLDHAM SW	northwest of the intersection of 440 Avenue and 228 Street.
VVANF112	21017RT	BRIDGEWATER EAST	field on the north side of 263 Street and west of 437 Avenue.
VVANF113	21017RU	LAKE PRESTON NE	northeast of the intersection of 443 Avenue and 206 Street.
VVANF114	21017RV	LAKE PRESTON NE	south shoulder of 204 Street and east of a field access.
VVANF115	21017RW	MIDWAY	south side of 291 Street and west of 435 Avenue.
VVANF116	21017RX	CANOVA EAST	east shoulder of US81 and south from 234 Street.
VVANF117	21017RY	GERTSON SLOUGH	north shoulder of 193 Street and to the west of 445 Avenue.
VVANF118	21017RZ	WATERTOWN WEST	high grass on north side of 167th Street east of 448th Avenue
VVANF119	21017SA	DOLTON	southwest of the intersection of 271 Street and 438 Avenue.
VVANF120	21017SB	MIDWAY	east shoulder of 437 Avenue and opposite and just south of the drive to Schultz Farm.
VVANF121	21017SC	FREEMAN	northeast of the intersection of 438 Avenue and 284 Street.
VVANF122	21017SD	HAYTI	southwest of the intersection of 185 Street and 448 Avenue.
VVANF123	21017SE	WINFRED SE	southwest of the intersection of 443 Avenue and 243 Street.
VVANF124	21017SF	JAMESVILLE	east shoulder of 438 Avenue and on the north side of a field access.

Station Name	GPSID	USGS Quadrangle	Description
VVANF125	21017SG	SALEM NE	northwest of the intersection of 253 Street and 443 Avenue.
VVANF126	21017SH	STILL LAKE	high grass in southwest quadrant of intersection of 159th Street and 452nd Avenue
VVANF127	21017SI	OLDHAM	southeast of the intersection of 447 Avenue and 221 Street.
VVANF128	21017SJ	CANISTOTA	northeast of the intersection of 444 Avenue and 261 Street.
VVANF129	21017SK	SALEM NE	south shoulder of 256 Street.
VVANF130	21017SL	CANISTOTA	south of 260 Street and east from 445 Avenue.
VVANF131	21017SM	BADGER	high grass on north side of 202nd Street and east side of 451st Avenue to the south extended and on west side of 451st Avenue to the north
VVANF132	21017SN	RAMONA	north shoulder of 226 Street at a field access.
VVANF133	21017SO	HAYTI	high grass in field entrance on south side of 189th Street opposite drive north
VVANF134	21017SP	WATERTOWN EAST	high grass on south side of 12th Avenue southeast and east of 5th Street southeast
VVANF135	21017SQ	SALEM NE	north side of 256 Street and east from 447 Avenue.
VVANF136	21017SR	LAKE HERMAN	north shoulder of 240 Street.
VVANF137	21017SS	WATERTOWN SE	high grass on north side of 175th Street just east of 457th Avenue
VVANF138	21017ST	STILL LAKE SE	high grass in northwest quadrant of intersection of 156th Street and 459th Avenue
VVANF139	21017SU	STILL LAKE SE	high grass in southwest quadrant of intersection of 158th Street and 460th Avenue
VVANF140	21017SV	LAKE MADISON SW	northwest of the intersection of 244 Street and 452 Avenue.
VVANF141	21017SW	LAKE HERMAN	south shoulder of 234 Street and west of Farmer Avenue.
VVANF142	21017SX	WATERTOWN EAST	high grass on west side of 460th Avenue (at north end) at north edge of Oak Street extended
VVANF143	21017SY	PARKER SW	north shoulder of 284 Street and west of 450 Avenue.
VVANF144	21017SZ	SOUTH SHORE	high grass on west side of 464th Street south of 156th Street
VVANF145	21017TA	GAYVILLE	southwest of the intersection of 308 Street and 450 Avenue.
VVANF146	21017TB	RUTLAND NW	cornfield in southwest quadrant of intersection of 222nd Street and 461st Avenue
VVANF147	21017TC	DEMPSTER	high grass in northwest quadrant of intersection of 183rd Street and 465th Avenue
VVANF148	21017TD	WAKONDA	northeast shoulder of the intersection of SD19 and SD19A.
VVANF149	21017TE	RUTLAND	high grass in northeast quadrant of intersection of 227th Street and 465th Avenue
VVANF150	21017TF	HUB CITY	southeast of the intersection of 309 Street and University Road.
VVANF151	21017TG	VERMILLON	west side of 465 Avenue in a grass traffic island and south of University Road.
VVANF152	21017TH	HUB CITY	east shoulder of 466 Avenue and just north from 305 Street.
VVANF153	21017TI	HUB CITY	southwest of the intersection of 466 Avenue and 311 Street.

The stations were not permanently marked.

METHODOLOGY

The field survey was done by using two Trimble R10 dual frequency, multi-constellation GNSS receivers in a real time (RTK/VRS) mode. Corrections were obtained from the VRSNow network with corrections delivered over the cellular network. These corrections are applied in real time and

used by the rover receiver to converge to a cm level solution. Each station was occupied once for a minimum of 2 minutes (120 epochs), then re-initialized and occupied a second time immediately after the first occupation. Additional observations were made if necessary to ensure agreement at the 0.03 m level. The solutions are stored as vectors from the nearest physical CORS. Most woods checkpoints were located by establishing a temporary base nearby using the VRS network and then using the second R10 as a rover with corrections delivered over a radio link, although VVAF003, VVAF005, and VVAF008 were located directly from the VRS. Table 3 summarizes the VRS/RTK occupations (precisions in meters). Lines with ~~strikethrough~~ were rejected and reobserved.

Table 3 – VRS/RTK Occupation Summary

GPS BASE	GPSID	UTC Start	UTC End	Horz Prec	Vert Prec	# of SV's	PDOP
PRS138622485611	21017AS	06/07/2021 12:19:07	12:21:47	0.006	0.009	20	1.3
PRS138622485611	21017AS	06/07/2021 12:22:17	12:24:16	0.008	0.010	18	1.4
PRS138622485611	21017FM	06/07/2021 12:32:14	12:34:13	0.008	0.014	20	1.4
PRS138622485611	21017FM	06/07/2021 12:34:58	12:36:57	0.009	0.014	20	1.4
PRS138622485611	21017OL	06/07/2021 12:50:27	12:53:33	0.010	0.018	19	1.4
PRS138622485611	21017OL	06/07/2021 12:54:01	12:56:00	0.010	0.017	18	1.4
PRS138622485611	21017GH	06/07/2021 13:06:47	13:08:47	0.009	0.013	20	1.3
PRS138622485611	21017GH	06/07/2021 13:09:28	13:11:28	0.010	0.015	20	1.2
PRS138622485611	21017BE	06/07/2021 13:18:45	13:20:44	0.010	0.015	20	1.2
PRS138622485611	21017BE	06/07/2021 13:21:12	13:23:11	0.010	0.016	17	1.3
PRS138622485611	21017OW	06/07/2021 13:29:35	13:31:34	0.010	0.013	20	1.2
PRS138622485611	21017OW	06/07/2021 13:32:06	13:34:05	0.009	0.012	20	1.2
PRS138622485611	21017HG	06/07/2021 13:50:33	13:52:32	0.009	0.013	22	1.3
PRS138622485611	21017HG	06/07/2021 13:53:03	13:55:02	0.009	0.013	22	1.3
PRS138622485611	21017PA	06/07/2021 14:11:07	14:13:07	0.010	0.015	20	1.4
PRS138622485611	21017PA	06/07/2021 14:13:33	14:15:34	0.010	0.013	17	1.6
PRS138622485611	21017OR	06/07/2021 14:27:18	14:29:17	0.009	0.011	23	1.1
PRS138622485611	21017OR	06/07/2021 14:29:46	14:31:45	0.011	0.016	19	1.2
PRS138622485611	21017FL	06/07/2021 14:49:10	14:51:09	0.007	0.009	23	1.0
PRS138622485611	21017FL	06/07/2021 14:52:03	14:54:02	0.008	0.010	22	1.1
PRS138622485611	21017OF	06/07/2021 14:59:44	15:01:43	0.008	0.014	21	1.2
PRS138622485611	21017OF	06/07/2021 15:02:13	15:04:12	0.008	0.013	10	1.7
PRS138622485611	21017ON	06/07/2021 15:13:48	15:15:47	0.008	0.013	19	1.3
PRS138622485611	21017ON	06/07/2021 15:16:15	15:18:14	0.008	0.012	15	1.5
PRS138622485611	21017BD	06/07/2021 15:24:51	15:26:50	0.010	0.016	20	1.2
PRS138622485611	21017BD	06/07/2021 15:27:12	15:29:11	0.009	0.015	17	1.3
PRS138622485611	21017FY	06/07/2021 15:37:32	15:39:31	0.010	0.015	19	1.2
PRS138622485611	21017FY	06/07/2021 15:40:10	15:42:09	0.011	0.017	19	1.2
PRS138622485611	21017FF	06/07/2021 15:49:36	15:51:35	0.010	0.012	20	1.1
PRS138622485611	21017FF	06/07/2021 15:52:29	15:54:28	0.010	0.011	19	1.1
PRS138622485611	21017OE	06/07/2021 16:04:14	16:06:13	0.011	0.013	20	1.0
PRS138622485611	21017OE	06/07/2021 16:06:49	16:08:48	0.010	0.011	18	1.1
PRS138622485611	21017AT	06/07/2021 16:14:08	16:16:07	0.010	0.014	19	1.1
PRS138622485611	21017AT	06/07/2021 16:16:51	16:18:50	0.010	0.014	19	1.1
PRS138622485611	21017OG	06/07/2021 16:27:43	16:29:42	0.010	0.014	18	1.2
PRS138622485611	21017OG	06/07/2021 16:30:22	16:32:21	0.011	0.014	18	1.2
PRS138622485611	21017FQ	06/07/2021 16:37:46	16:39:45	0.011	0.017	19	1.1
PRS138622485611	21017FQ	06/07/2021 16:40:09	16:42:08	0.011	0.016	15	1.4
PRS138622485611	21017FV	06/07/2021 16:53:58	16:55:57	0.010	0.014	17	1.3
PRS138622485611	21017FV	06/07/2021 16:56:22	16:58:21	0.011	0.014	12	1.8
PRS138622485611	21017BA	06/07/2021 17:04:06	17:06:05	0.011	0.016	17	1.4
PRS138622485611	21017BA	06/07/2021 17:06:50	17:08:49	0.011	0.017	19	1.1
PRS138622485611	21017FH	06/07/2021 17:22:02	17:24:01	0.009	0.013	17	1.4
PRS138622485611	21017FH	06/07/2021 17:24:32	17:26:31	0.010	0.016	17	1.4
PRS138622485611	21017FC	06/07/2021 17:33:06	17:35:05	0.010	0.015	17	1.4
PRS138622485611	21017FC	06/07/2021 17:35:26	17:37:25	0.009	0.014	14	1.6
PRS138622485611	21017OA	06/07/2021 17:50:52	17:52:51	0.008	0.013	18	1.3
PRS138622485611	21017OA	06/07/2021 17:53:21	17:55:20	0.008	0.013	15	1.5

GPS BASE	GPSID	UTC Start	UTC End	Horz Prec	Vert Prec	# of SV's	PDOP
PRS138622485611	21017NW	06/07/2021 18:06:04	18:08:03	0.008	0.014	18	1.3
PRS138622485611	21017NW	06/07/2021 18:08:27	18:10:26	0.009	0.014	12	1.6
PRS138622485611	21017AI	06/07/2021 18:17:11	18:19:11	0.009	0.016	17	1.4
PRS138622485611	21017AI	06/07/2021 18:21:37	18:23:36	0.008	0.013	17	1.3
PRS138622485611	21017EO	06/07/2021 18:35:51	18:37:50	0.011	0.019	16	1.5
PRS138622485611	21017EO	06/07/2021 18:38:11	18:40:10	0.011	0.021	14	1.7
PRS138622485611	21017NS	06/07/2021 18:46:30	18:48:29	0.011	0.020	16	1.4
PRS138622485611	21017NS	06/07/2021 18:48:57	18:50:56	0.012	0.021	15	1.4
PRS138622485611	21017AF	06/07/2021 19:01:30	19:03:29	0.009	0.012	19	1.1
PRS138622485611	21017AF	06/07/2021 19:04:22	19:06:21	0.010	0.013	19	1.1
PRS962064837423	21017EK	06/07/2021 19:19:36	19:21:35	0.011	0.016	17	1.2
PRS962064837423	21017EK	06/07/2021 19:22:02	19:24:01	0.012	0.017	18	1.2
PRS962064837423	21017AA	06/07/2021 19:33:47	19:35:46	0.014	0.018	16	1.4
PRS962064837423	21017AA	06/07/2021 19:36:10	19:38:09	0.012	0.015	15	1.5
PRS962064837423	21017EI	06/07/2021 19:53:01	19:55:11	0.010	0.013	17	1.5
PRS962064837423	21017EI	06/07/2021 19:55:43	19:57:42	0.010	0.013	17	1.5
PRS962064837423	21017NN	06/07/2021 20:11:14	20:13:13	0.010	0.015	18	1.5
PRS962064837423	21017NN	06/07/2021 20:13:47	20:15:47	0.011	0.018	15	1.8
PRS962064837423	21017NN	06/07/2021 20:16:20	20:18:19	0.011	0.017	17	1.6
PRS962064837423	21017NM	06/07/2021 20:28:46	20:30:52	0.010	0.015	21	1.2
PRS962064837423	21017NM	06/07/2021 20:31:27	20:33:31	0.009	0.015	21	1.2
PRS962064837423	21017NM	06/07/2021 20:34:10	20:36:15	0.010	0.015	22	1.2
PRS962064837423	21017AC	06/07/2021 20:41:50	20:43:49	0.010	0.018	20	1.5
PRS962064837423	21017AC	06/07/2021 20:44:16	20:46:18	0.010	0.019	16	1.7
PRS42122199625	21017NP	06/07/2021 20:56:22	20:58:21	0.010	0.018	20	1.5
PRS42122199625	21017NP	06/07/2021 20:58:57	21:00:56	0.010	0.018	20	1.5
PRS42122199625	21017EJ	06/07/2021 21:10:26	21:12:27	0.010	0.019	18	1.6
PRS42122199625	21017EJ	06/07/2021 21:13:48	21:15:47	0.009	0.018	18	1.6
PRS42122199625	21017EJ	06/07/2021 21:16:29	21:18:30	0.009	0.016	18	1.6
PRS42122199625	21017NO	06/07/2021 21:24:23	21:26:22	0.010	0.022	19	1.4
PRS42122199625	21017NO	06/07/2021 21:27:58	21:29:58	0.010	0.019	18	1.4
PRS42122199625	21017AD	06/07/2021 21:35:06	21:37:26	0.010	0.013	17	1.3
PRS42122199625	21017AD	06/07/2021 21:37:55	21:39:54	0.011	0.018	13	1.6
PRS138622485611	21017AG	06/07/2021 22:04:38	22:06:37	0.013	0.014	21	1.2
PRS138622485611	21017AG	06/07/2021 22:07:13	22:09:13	0.012	0.014	21	1.2
PRS138622485611	21017NT	06/07/2021 22:17:58	22:19:57	0.010	0.011	20	1.2
PRS138622485611	21017NT	06/07/2021 22:20:31	22:22:30	0.011	0.012	20	1.2
PRS138622485611	21017AJ	06/07/2021 22:39:15	22:41:14	0.008	0.010	20	1.2
PRS138622485611	21017AJ	06/07/2021 22:41:55	22:43:54	0.009	0.010	19	1.2
PRS138622485611	21017EP	06/07/2021 22:53:16	22:55:15	0.010	0.011	19	1.3
PRS138622485611	21017EP	06/07/2021 22:55:46	22:57:45	0.011	0.012	17	1.3
PRS138622485611	21017NQ	06/07/2021 23:09:58	23:11:57	0.011	0.014	19	1.3
PRS138622485611	21017NQ	06/07/2021 23:12:35	23:13:49	0.016	0.020	19	1.3
PRS138622485611	21017ES	06/07/2021 23:29:49	23:31:48	0.010	0.012	19	1.3
PRS138622485611	21017ES	06/07/2021 23:32:16	23:34:15	0.010	0.013	16	1.5
PRS138622485611	21017EX	06/07/2021 23:43:05	23:45:04	0.008	0.011	19	1.3
PRS138622485611	21017EX	06/07/2021 23:45:39	23:47:38	0.008	0.009	19	1.3
PRS138622485611	21017ET	06/07/2021 23:57:47	23:59:46	0.008	0.011	18	1.3
PRS138622485611	21017ET	06/08/2021 00:00:13	00:02:12	0.008	0.011	18	1.3
PRS657151374358	21017FS	06/09/2021 13:02:34	13:04:38	0.012	0.018	23	1.1
PRS657151374358	21017FS	06/09/2021 13:05:03	13:07:02	0.011	0.016	21	1.2
PRS282453383295	21017OU	06/09/2021 13:22:25	13:24:24	0.009	0.015	22	1.2
PRS282453383295	21017OU	06/09/2021 13:24:52	13:26:51	0.011	0.016	20	1.2
PRS282453383295	21017GY	06/09/2021 13:35:52	13:37:55	0.009	0.012	22	1.3
PRS282453383295	21017GY	06/09/2021 13:38:32	13:40:31	0.009	0.012	23	1.2
PRS282453383295	21017IF	06/09/2021 13:55:39	13:57:47	0.005	0.008	23	1.3
PRS282453383295	21017IF	06/09/2021 13:58:27	14:00:28	0.006	0.010	23	1.3
PRS282453383295	21017JG	06/09/2021 14:13:50	14:15:49	0.005	0.008	23	1.2
PRS282453383295	21017JG	06/09/2021 14:16:19	14:18:18	0.005	0.008	21	1.2
PRS282453383295	21017QT	06/09/2021 14:35:28	14:37:28	0.006	0.008	25	1.0
PRS282453383295	21017QT	06/09/2021 14:38:06	14:40:08	0.006	0.008	25	1.0
PRS282453383295	21017KC	06/09/2021 14:45:46	14:47:52	0.006	0.011	23	1.1
PRS282453383295	21017KC	06/09/2021 14:48:15	14:50:15	0.006	0.013	17	1.3
PRS282453383295	21017RC	06/09/2021 15:03:32	15:05:58	0.006	0.010	20	1.2

GPS BASE	GPSID	UTC Start	UTC End	Horz Prec	Vert Prec	# of SV's	PDOP
PRS282453383295	21017RC	06/09/2021 15:07:11	15:09:10	0.007	0.011	20	1.2
PRS282453383295	21017CZ	06/09/2021 15:14:42	15:16:41	0.007	0.012	21	1.1
PRS282453383295	21017CZ	06/09/2021 15:17:04	15:19:03	0.008	0.013	16	1.2
PRS282453383295	21017LD	06/09/2021 15:27:17	15:29:16	0.009	0.013	19	1.2
PRS282453383295	21017LD	06/09/2021 15:29:40	15:31:39	0.011	0.015	13	1.5
PRS282453383295	21017RP	06/09/2021 15:44:53	15:46:52	0.008	0.012	17	1.4
PRS282453383295	21017RP	06/09/2021 15:47:23	15:49:22	0.009	0.012	16	1.3
PRS282453383295	21017LJ	06/09/2021 15:53:38	15:55:40	0.009	0.014	17	1.3
PRS282453383295	21017LJ	06/09/2021 15:56:01	15:58:00	0.010	0.015	13	1.4
PRS282453383295	21017RL	06/09/2021 16:08:36	16:10:35	0.008	0.012	20	1.0
PRS282453383295	21017RL	06/09/2021 16:11:04	16:13:03	0.009	0.014	17	1.1
PRS282453383295	21017KX	06/09/2021 16:19:12	16:21:11	0.009	0.011	20	1.1
PRS282453383295	21017KX	06/09/2021 16:21:39	16:23:40	0.009	0.013	13	1.4
PRS282453383295	21017TQ	06/09/2021 16:32:50	16:36:57	0.020	0.039	14	1.5
PRS282453383295	21017TQ	06/09/2021 16:32:50	16:36:57	0.020	0.039	14	1.5
PRS282453383295	21017TQ	06/09/2021 16:38:38	16:40:37	0.020	0.031	14	1.6
PRS282453383295	21017TQ	06/09/2021 16:41:15	16:45:05	0.015	0.019	9	2.0
PRS282453383295	21017LG	06/09/2021 16:52:41	16:54:40	0.010	0.016	15	1.4
PRS282453383295	21017LG	06/09/2021 16:55:35	16:57:34	0.009	0.015	16	1.3
PRS930393933222	21017DG	06/09/2021 17:02:57	17:05:24	0.008	0.014	19	1.2
PRS930393933222	21017DG	06/09/2021 17:05:43	17:07:42	0.008	0.013	16	1.4
PRS930393933222	21017KQ	06/09/2021 17:18:25	17:20:24	0.009	0.013	17	1.4
PRS930393933222	21017KQ	06/09/2021 17:21:49	17:23:48	0.008	0.012	17	1.4
PRS282453383295	21017JU	06/09/2021 17:37:58	17:40:02	0.008	0.012	18	1.3
PRS282453383295	21017JU	06/09/2021 17:40:33	17:42:32	0.008	0.012	19	1.3
PRS282453383295	21017JI	06/09/2021 18:01:55	18:03:57	0.008	0.014	18	1.4
PRS282453383295	21017JI	06/09/2021 18:04:20	18:06:21	0.009	0.014	13	1.6
PRS282453383295	21017KD	06/09/2021 18:19:16	18:21:18	0.011	0.014	17	1.3
PRS282453383295	21017KD	06/09/2021 18:21:41	18:23:40	0.012	0.015	15	1.5
PRS282453383295	21017KH	06/09/2021 18:33:55	18:35:54	0.011	0.016	16	1.5
PRS282453383295	21017KH	06/09/2021 18:36:00	18:38:42	0.011	0.014	7	2.4
PRS282453383295	21017TN	06/09/2021 18:53:04	18:53:49	0.023	0.029	14	1.5
PRS282453383295	21017TN	06/09/2021 19:06:06	19:09:06	0.012	0.016	14	1.6
PRS282453383295	21017TN	06/09/2021 19:09:39	19:09:53	0.029	0.044	15	1.6
PRS282453383295	21017TN	06/09/2021 19:10:35	19:12:36	0.025	0.035	16	1.4
PRS282453383295	21017CF	06/09/2021 19:33:02	19:35:02	0.009	0.015	16	1.6
PRS282453383295	21017CF	06/09/2021 19:35:23	19:37:24	0.008	0.011	10	2.2
PRS282453383295	21017QA	06/09/2021 19:45:33	19:47:32	0.008	0.014	18	1.6
PRS282453383295	21017QA	06/09/2021 19:47:55	19:49:54	0.009	0.015	17	1.6
PRS687392756641	21017HQ	06/09/2021 20:05:53	20:07:52	0.009	0.016	19	1.6
PRS687392756641	21017HQ	06/09/2021 20:08:48	20:10:47	0.009	0.016	18	1.7
PRS687392756641	21017HQ	06/09/2021 20:11:09	20:13:08	0.010	0.017	13	2.1
PRS687392756641	21017HR	06/09/2021 20:18:30	20:20:29	0.012	0.023	20	1.3
PRS687392756641	21017HR	06/09/2021 20:20:50	20:22:49	0.010	0.020	15	1.4
PRS282453383295	21017HM	06/09/2021 20:30:12	20:32:11	0.009	0.018	21	1.2
PRS282453383295	21017HM	06/09/2021 20:32:35	20:34:34	0.008	0.016	16	1.4
PRS687392756641	21017BL	06/09/2021 20:46:12	20:48:13	0.008	0.018	19	1.4
PRS687392756641	21017FW	06/09/2021 20:58:40	21:00:39	0.009	0.024	21	1.3
PRS687392756641	21017FW	06/09/2021 21:01:04	21:03:03	0.009	0.023	19	1.4
PRS687392756641	21017GD	06/10/2021 13:10:58	13:12:58	0.009	0.012	20	1.2
PRS687392756641	21017GD	06/10/2021 13:13:28	13:15:27	0.008	0.012	21	1.2
PRS687392756641	21017FI	06/10/2021 13:33:27	13:35:26	0.008	0.011	21	1.2
PRS687392756641	21017FI	06/10/2021 13:35:51	13:37:50	0.008	0.012	16	1.5
PRS687392756641	21017BM	06/10/2021 13:51:13	13:53:12	0.008	0.013	20	1.2
PRS687392756641	21017BM	06/10/2021 13:53:34	13:55:33	0.008	0.013	14	1.7
PRS687392756641	21017GM	06/10/2021 14:04:36	14:06:35	0.007	0.010	19	1.3
PRS687392756641	21017GM	06/10/2021 14:06:56	14:08:55	0.010	0.017	15	1.6
PRS687392756641	21017FJ	06/10/2021 14:18:36	14:20:52	0.008	0.011	21	1.2
PRS687392756641	21017FJ	06/10/2021 14:21:15	14:23:14	0.007	0.011	18	1.3
PRS687392756641	21017BG	06/10/2021 14:40:16	14:42:15	0.007	0.012	19	1.2
PRS687392756641	21017BG	06/10/2021 14:42:39	14:44:38	0.007	0.011	16	1.3
PRS687392756641	21017FU	06/10/2021 14:52:48	14:54:47	0.007	0.011	19	1.2
PRS687392756641	21017FU	06/10/2021 14:55:11	14:57:10	0.008	0.011	13	1.5
PRS687392756641	21017OO	06/10/2021 15:12:19	15:14:18	0.007	0.010	18	1.2

GPS BASE	GPSID	UTC Start	UTC End	Horz Prec	Vert Prec	# of SV's	PDOP
PRS687392756641	21017OO	06/10/2021 15:14:48	15:16:47	0.008	0.010	17	1.2
PRS687392756641	21017GR	06/10/2021 15:30:37	15:32:41	0.010	0.012	17	1.3
PRS687392756641	21017GR	06/10/2021 15:33:04	15:35:03	0.010	0.011	16	1.3
PRS687392756641	21017HN	06/10/2021 15:44:58	15:46:57	0.008	0.010	16	1.3
PRS687392756641	21017HN	06/10/2021 15:47:20	15:49:19	0.007	0.010	12	1.5
PRS687392756641	21017CB	06/10/2021 15:59:28	16:01:27	0.008	0.011	18	1.2
PRS687392756641	21017CB	06/10/2021 16:01:52	16:03:51	0.008	0.011	13	1.3
PRS996942718968	21017QB	06/10/2021 16:11:48	16:13:47	0.009	0.014	17	1.4
PRS996942718968	21017QB	06/10/2021 16:14:28	16:16:27	0.010	0.018	17	1.4
PRS996942718968	21017TL	06/10/2021 16:27:44	16:29:43	0.012	0.025	12	2.9
PRS996942718968	21017TL	06/10/2021 16:31:08	16:32:25	0.021	0.054	14	1.9
PRS996942718968	21017TL	06/10/2021 16:33:08	16:35:55	0.016	0.033	15	1.9
PRS996942718968	21017TL	06/10/2021 16:36:30	16:38:56	0.017	0.034	14	2.0
PRS996942718968	21017TL	06/10/2021 16:41:20	16:43:19	0.012	0.026	14	2.4
PRS687392756641	21017JD	06/10/2021 16:52:28	16:54:27	0.010	0.015	18	1.3
PRS687392756641	21017JD	06/10/2021 16:54:57	16:56:56	0.009	0.013	15	1.5
PRS996942718968	21017JK	06/10/2021 17:11:03	17:13:02	0.012	0.018	17	1.4
PRS996942718968	21017JK	06/10/2021 17:16:30	17:18:29	0.011	0.012	17	1.4
PRS996942718968	21017JK	06/10/2021 17:19:03	17:21:02	0.012	0.014	17	1.4
PRS996942718968	21017QV	06/10/2021 17:35:06	17:37:13	0.012	0.017	18	1.4
PRS996942718968	21017QV	06/10/2021 17:37:49	17:39:48	0.011	0.016	18	1.4
PRS996942718968	21017DA	06/10/2021 17:44:47	17:46:47	0.011	0.016	18	1.4
PRS996942718968	21017DA	06/10/2021 17:47:50	17:49:49	0.011	0.017	18	1.4
PRS930393933222	21017RH	06/10/2021 18:10:14	18:12:13	0.010	0.016	19	1.3
PRS930393933222	21017RH	06/10/2021 18:14:54	18:16:54	0.010	0.015	19	1.2
PRS930393933222	21017RH	06/10/2021 18:17:21	18:19:20	0.011	0.016	12	1.6
PRS930393933222	21017KI	06/10/2021 18:29:04	18:31:05	0.012	0.020	18	1.2
PRS930393933222	21017KI	06/10/2021 18:31:29	18:33:31	0.010	0.018	15	1.4
PRS930393933222	21017QS	06/10/2021 18:41:13	18:43:14	0.010	0.020	17	1.4
PRS930393933222	21017QS	06/10/2021 18:43:47	18:45:46	0.010	0.019	18	1.3
PRS687392756641	21017JS	06/10/2021 18:52:59	18:55:00	0.013	0.020	19	1.1
PRS687392756641	21017JS	06/10/2021 18:55:55	18:57:58	0.012	0.021	19	1.1
PRS687392756641	21017JS	06/10/2021 18:58:56	19:00:55	0.014	0.023	19	1.1
PRS930393933222	21017CR	06/10/2021 19:06:10	19:08:09	0.013	0.024	19	1.4
PRS930393933222	21017CR	06/10/2021 19:08:41	19:10:40	0.015	0.026	18	1.5
PRS687392756641	21017QP	06/10/2021 19:22:59	19:24:58	0.012	0.019	18	1.4
PRS687392756641	21017QP	06/10/2021 19:25:34	19:27:33	0.013	0.022	18	1.4
PRS687392756641	21017QP	06/10/2021 19:28:22	19:30:21	0.013	0.024	16	1.7
PRS687392756641	21017QP	06/10/2021 19:31:13	19:33:12	0.011	0.019	16	1.7
PRS687392756641	21017IZ	06/10/2021 19:39:08	19:41:07	0.010	0.017	16	1.8
PRS687392756641	21017IZ	06/10/2021 19:41:56	19:43:56	0.012	0.019	15	1.9
PRS687392756641	21017IP	06/10/2021 19:49:23	19:51:22	0.011	0.015	16	1.6
PRS687392756641	21017IP	06/10/2021 19:51:47	19:53:46	0.012	0.019	15	1.7
PRS687392756641	21017CC	06/10/2021 20:08:32	20:10:31	0.010	0.017	19	1.5
PRS687392756641	21017CC	06/10/2021 20:12:10	20:14:09	0.008	0.015	19	1.5
PRS687392756641	21017PM	06/10/2021 20:24:03	20:26:02	0.010	0.021	21	1.4
PRS687392756641	21017PM	06/10/2021 20:26:33	20:28:32	0.008	0.019	15	1.8
PRS687392756641	21017PD	06/10/2021 20:39:01	20:41:00	0.006	0.013	21	1.4
PRS687392756641	21017PD	06/10/2021 20:41:21	20:43:20	0.007	0.014	17	1.7
PRS687392756641	21017GX	06/10/2021 20:49:09	20:51:08	0.008	0.021	20	1.6
PRS687392756641	21017GX	06/10/2021 20:52:07	20:54:06	0.007	0.020	20	1.5
PRS687392756641	21017PX	06/10/2021 21:12:02	21:14:01	0.011	0.020	19	1.4
PRS687392756641	21017PX	06/10/2021 21:14:38	21:16:37	0.010	0.019	19	1.4
PRS687392756641	21017QG	06/10/2021 21:25:15	21:27:18	0.013	0.021	20	1.2
PRS687392756641	21017QG	06/10/2021 21:27:46	21:29:45	0.011	0.017	19	1.4
PRS930393933222	21017QU	06/10/2021 21:44:11	21:46:10	0.015	0.020	22	1.1
PRS930393933222	21017QU	06/10/2021 21:47:12	21:49:11	0.015	0.020	22	1.1
PRS930393933222	21017KO	06/10/2021 21:59:50	22:01:49	0.012	0.014	22	1.1
PRS930393933222	21017KO	06/10/2021 22:02:17	22:04:16	0.013	0.016	22	1.1
PRS36921347831	21017DH	06/11/2021 13:30:50	13:32:49	0.015	0.018	18	1.5
PRS36921347831	21017DH	06/11/2021 13:33:14	13:35:13	0.018	0.020	13	1.8
PRS282453383295	21017RR	06/11/2021 13:45:04	13:47:03	0.014	0.018	20	1.4
PRS282453383295	21017RR	06/11/2021 13:47:29	13:49:28	0.013	0.018	13	1.9
PRS282453383295	21017RQ	06/11/2021 13:54:23	13:56:22	0.015	0.020	21	1.3

GPS BASE	GPSID	UTC Start	UTC End	Horz Prec	Vert Prec	# of SV's	PDOP
PRS282453383295	21017RQ	06/11/2021 13:57:50	13:59:49	0.012	0.017	22	1.3
PRS282453383295	21017LI	06/11/2021 14:07:24	14:09:23	0.012	0.015	23	1.1
PRS282453383295	21017LI	06/11/2021 14:09:47	14:11:46	0.010	0.013	15	1.6
PRS282453383295	21017KT	06/11/2021 14:22:28	14:24:27	0.008	0.013	24	1.0
PRS282453383295	21017KT	06/11/2021 14:25:02	14:27:01	0.010	0.015	17	1.3
PRS282453383295	21017IV	06/11/2021 14:48:13	14:50:13	0.006	0.009	20	1.2
PRS282453383295	21017IV	06/11/2021 14:50:41	14:52:40	0.007	0.009	20	1.2
PRS282453383295	21017BZ	06/11/2021 15:03:04	15:05:05	0.008	0.011	19	1.3
PRS282453383295	21017BZ	06/11/2021 15:05:27	15:07:26	0.008	0.011	18	1.3
PRS282453383295	21017ZA	06/11/2021 15:17:53	15:19:52	0.004	0.006	18	1.5
PRS282453383295	21017ZA	06/11/2021 15:20:32	15:22:31	0.004	0.007	14	1.7
21017ZA	21017TK	06/11/2021 15:30:20	15:32:19	0.009	0.013	18	1.5
21017ZA	21017TK	06/11/2021 15:32:48	15:34:49	0.010	0.016	20	1.3
PRS282453383295	21017OQ	06/11/2021 15:53:07	15:55:08	0.012	0.016	18	1.2
PRS282453383295	21017OQ	06/11/2021 15:56:12	15:58:11	0.014	0.017	19	1.1
PRS282453383295	21017BJ	06/11/2021 16:01:52	16:03:55	0.012	0.015	19	1.1
PRS282453383295	21017BJ	06/11/2021 16:04:17	16:06:16	0.012	0.015	16	1.2
PRS657151374358	21017OM	06/11/2021 16:14:24	16:16:38	0.011	0.012	17	1.2
PRS657151374358	21017OM	06/11/2021 16:17:27	16:19:26	0.011	0.013	20	1.2
PRS657151374358	21017FR	06/11/2021 16:28:35	16:30:34	0.010	0.012	19	1.2
PRS657151374358	21017FR	06/11/2021 16:31:08	16:33:07	0.008	0.011	19	1.4
PRS657151374358	21017GQ	06/11/2021 16:41:37	16:43:36	0.011	0.015	20	1.2
PRS657151374358	21017GQ	06/11/2021 16:44:05	16:46:04	0.011	0.014	22	1.0
PRS282453383295	21017HU	06/11/2021 16:55:20	16:57:19	0.011	0.015	22	1.1
PRS282453383295	21017HU	06/11/2021 16:57:49	16:59:48	0.011	0.013	19	1.2
PRS282453383295	21017IG	06/11/2021 17:10:48	17:12:47	0.009	0.014	21	1.1
PRS282453383295	21017IG	06/11/2021 17:13:25	17:15:24	0.009	0.014	21	1.1
PRS282453383295	21017IU	06/11/2021 17:25:19	17:27:33	0.007	0.012	20	1.2
PRS282453383295	21017IU	06/11/2021 17:28:00	17:29:59	0.008	0.013	19	1.5
PRS282453383295	21017QH	06/11/2021 18:02:48	18:03:04	0.010	0.016	20	1.2
PRS282453383295	21017QH	06/11/2021 18:04:28	18:06:27	0.008	0.011	15	1.5
PRS282453383295	21017QR	06/11/2021 18:18:28	18:20:53	0.008	0.011	19	1.3
PRS282453383295	21017QR	06/11/2021 18:21:16	18:23:16	0.007	0.012	14	1.4
PRS282453383295	21017KB	06/11/2021 18:32:03	18:34:10	0.008	0.013	19	1.2
PRS282453383295	21017KB	06/11/2021 18:34:39	18:36:39	0.008	0.013	22	1.1
PRS282453383295	21017CQ	06/11/2021 18:43:30	18:45:30	0.008	0.012	22	1.1
PRS282453383295	21017CQ	06/11/2021 18:45:56	18:47:55	0.009	0.013	17	1.2
PRS282453383295	21017KY	06/11/2021 18:55:32	18:57:31	0.010	0.016	21	1.1
PRS282453383295	21017KY	06/11/2021 18:58:07	19:00:07	0.011	0.018	21	1.1
PRS36921347831	21017LC	06/11/2021 19:07:13	19:09:12	0.010	0.015	20	1.3
PRS36921347831	21017LC	06/11/2021 19:09:42	19:11:44	0.010	0.015	15	1.5
PRS36921347831	21017SH	06/11/2021 19:25:11	19:27:10	0.011	0.015	21	1.3
PRS36921347831	21017SH	06/11/2021 19:27:31	19:29:30	0.012	0.017	17	1.5
PRS36921347831	21017SU	06/11/2021 19:42:59	19:44:58	0.012	0.018	21	1.5
PRS36921347831	21017SU	06/11/2021 19:45:32	19:47:31	0.011	0.017	21	1.5
PRS36921347831	21017ST	06/11/2021 19:53:56	19:55:57	0.011	0.019	22	1.5
PRS36921347831	21017ST	06/11/2021 19:56:20	19:58:19	0.011	0.020	21	1.3
PRS36921347831	21017DZ	06/11/2021 20:07:40	20:09:39	0.009	0.017	22	1.3
PRS36921347831	21017DZ	06/11/2021 20:10:16	20:12:15	0.009	0.016	23	1.2
PRS36921347831	21017SZ	06/11/2021 20:16:09	20:18:08	0.008	0.016	24	1.2
PRS36921347831	21017SZ	06/11/2021 20:18:38	20:20:37	0.009	0.016	20	1.3
PRS36921347831	21017MI	06/11/2021 20:34:18	20:36:17	0.007	0.012	24	1.1
PRS36921347831	21017MI	06/11/2021 20:36:51	20:38:50	0.007	0.012	24	1.1
PRS36921347831	21017MN	06/11/2021 20:46:46	20:48:45	0.008	0.017	24	1.3
PRS36921347831	21017MN	06/11/2021 20:49:12	20:51:11	0.008	0.018	22	1.2
PRS36921347831	21017MR	06/11/2021 20:58:46	21:00:45	0.006	0.011	23	1.3
PRS36921347831	21017MR	06/11/2021 21:01:06	21:03:05	0.007	0.012	16	1.8
PRS36921347831	21017SX	06/11/2021 21:17:35	21:19:34	0.008	0.010	19	1.3
PRS36921347831	21017SX	06/11/2021 21:20:05	21:22:04	0.007	0.010	20	1.3
PRS36921347831	21017EA	06/11/2021 21:34:07	21:36:06	0.009	0.011	21	1.4
PRS36921347831	21017EA	06/11/2021 21:36:32	21:38:31	0.008	0.011	20	1.3
PRS36921347831	21017SP	06/11/2021 21:54:15	21:56:14	0.004	0.006	22	1.1
PRS36921347831	21017SP	06/11/2021 21:57:26	21:59:25	0.004	0.005	23	1.1
PRS36921347831	21017LU	06/11/2021 22:12:33	22:14:32	0.007	0.008	22	1.0

GPS BASE	GPSID	UTC Start	UTC End	Horz Prec	Vert Prec	# of SV's	PDOP
PRS36921347831	21017LU	06/11/2021 22:15:03	22:17:02	0.007	0.008	22	1.0
PRS36921347831	21017LT	06/11/2021 22:28:14	22:30:14	0.009	0.014	20	1.2
PRS36921347831	21017LT	06/11/2021 22:33:05	22:35:04	0.008	0.013	21	1.2
PRS36921347831	21017RZ	06/11/2021 22:41:23	22:43:22	0.009	0.012	20	1.2
PRS36921347831	21017RZ	06/11/2021 22:43:52	22:45:51	0.009	0.013	19	1.2
PRS36921347831	21017LH	06/11/2021 22:53:50	22:55:49	0.008	0.013	20	1.2
PRS36921347831	21017LH	06/11/2021 22:56:10	22:58:09	0.009	0.015	17	1.4
PRS36921347831	21017RM	06/11/2021 23:09:42	23:11:41	0.008	0.016	20	1.3
PRS36921347831	21017RM	06/11/2021 23:12:15	23:14:14	0.008	0.017	19	1.3
PRS36921347831	21017DR	06/12/2021 12:29:49	12:31:58	0.008	0.010	20	1.2
PRS36921347831	21017DR	06/12/2021 12:32:27	12:34:28	0.007	0.010	19	1.2
PRS36921347831	21017LY	06/12/2021 12:43:12	12:45:11	0.008	0.014	22	1.1
PRS36921347831	21017LY	06/12/2021 12:46:21	12:48:20	0.007	0.013	23	1.1
PRS36921347831	21017CS	06/12/2021 13:12:08	13:14:19	0.007	0.010	26	1.0
PRS36921347831	21017CS	06/12/2021 13:14:49	13:16:48	0.007	0.011	25	1.0
PRS437922444658	21017KF	06/12/2021 13:37:11	13:39:10	0.007	0.011	22	1.3
PRS437922444658	21017KF	06/12/2021 13:39:37	13:41:36	0.010	0.013	17	1.5
PRS282453383295	21017JP	06/12/2021 13:53:31	13:55:30	0.007	0.011	23	1.3
PRS282453383295	21017JP	06/12/2021 13:55:50	13:57:50	0.007	0.011	11	2.0
PRS282453383295	21017CE	06/12/2021 14:13:17	14:15:16	0.006	0.010	25	1.0
PRS282453383295	21017CE	06/12/2021 14:15:48	14:17:47	0.007	0.010	19	1.1
PRS282453383295	21017PW	06/12/2021 14:35:29	14:37:30	0.007	0.014	23	1.1
PRS282453383295	21017PW	06/12/2021 14:38:58	14:40:57	0.007	0.013	22	1.2
PRS437922444658	21017ZB	06/12/2021 15:03:04	15:05:03	0.005	0.008	8	2.5
PRS437922444658	21017ZB	06/12/2021 15:06:02	15:08:01	0.005	0.007	18	1.2
21017ZB	21017TM	06/12/2021 15:12:39	15:14:40	0.012	0.014	21	1.2
21017ZB	21017TM	06/12/2021 15:15:16	15:17:16	0.010	0.009	20	1.2
PRS437922444658	21017HF	06/12/2021 15:30:51	15:32:56	0.010	0.012	19	1.2
PRS437922444658	21017HF	06/12/2021 15:33:21	15:35:20	0.009	0.011	14	1.4
PRS437922444658	21017GV	06/12/2021 15:43:35	15:45:52	0.010	0.015	18	1.1
PRS437922444658	21017GV	06/12/2021 15:48:09	15:50:08	0.009	0.013	20	1.1
PRS437922444658	21017GW	06/12/2021 15:54:52	15:56:51	0.009	0.015	20	1.1
PRS437922444658	21017GW	06/12/2021 15:57:33	15:59:32	0.010	0.015	17	1.1
PRS657151374358	21017BN	06/12/2021 16:11:46	16:13:45	0.009	0.013	19	1.1
PRS657151374358	21017BN	06/12/2021 16:14:08	16:16:07	0.009	0.012	16	1.2
PRS657151374358	21017BB	06/12/2021 16:31:05	16:33:09	0.008	0.010	18	1.1
PRS657151374358	21017BB	06/12/2021 16:33:30	16:35:29	0.008	0.009	13	1.4
PRS437922444658	21017GI	06/12/2021 16:51:20	16:53:19	0.008	0.011	20	1.1
PRS437922444658	21017GI	06/12/2021 16:53:46	16:55:45	0.008	0.011	19	1.2
PRS437922444658	21017HH	06/12/2021 17:07:20	17:09:30	0.008	0.010	19	1.3
PRS437922444658	21017HH	06/12/2021 17:09:58	17:11:57	0.008	0.011	19	1.3
PRS437922444658	21017GZ	06/12/2021 17:19:43	17:21:42	0.008	0.013	19	1.3
PRS437922444658	21017GZ	06/12/2021 17:22:12	17:24:11	0.008	0.013	17	1.4
PRS437922444658	21017HE	06/12/2021 17:28:42	17:30:41	0.008	0.010	20	1.2
PRS437922444658	21017HE	06/12/2021 17:31:20	17:33:19	0.007	0.010	19	1.3
PRS437922444658	21017PN	06/12/2021 17:43:50	17:45:50	0.009	0.011	17	1.6
PRS437922444658	21017PN	06/12/2021 17:46:19	17:48:18	0.008	0.013	17	1.6
PRS437922444658	21017CA	06/12/2021 17:57:52	17:59:51	0.007	0.011	20	1.2
PRS437922444658	21017CA	06/12/2021 18:00:35	18:02:34	0.007	0.010	20	1.2
PRS437922444658	21017IY	06/12/2021 18:11:05	18:13:04	0.007	0.010	19	1.3
PRS437922444658	21017IY	06/12/2021 18:13:47	18:15:46	0.009	0.014	15	1.5
PRS437922444658	21017QN	06/12/2021 18:22:59	18:24:58	0.009	0.017	20	1.3
PRS437922444658	21017QN	06/12/2021 18:26:44	18:28:43	0.009	0.017	20	1.3
PRS437922444658	21017JF	06/12/2021 18:34:23	18:36:22	0.009	0.011	21	1.2
PRS437922444658	21017JF	06/12/2021 18:37:12	18:39:11	0.008	0.011	24	1.0
PRS437922444658	21017IO	06/12/2021 18:50:58	18:52:57	0.006	0.008	24	1.0
PRS437922444658	21017IO	06/12/2021 18:53:30	18:55:32	0.007	0.009	23	1.1
PRS437922444658	21017IB	06/12/2021 19:02:18	19:04:19	0.005	0.006	22	1.2
PRS437922444658	21017IB	06/12/2021 19:05:11	19:07:14	0.005	0.006	22	1.2
PRS437922444658	21017HP	06/12/2021 19:13:55	19:15:54	0.006	0.011	23	1.2
PRS437922444658	21017HP	06/12/2021 19:17:03	19:19:03	0.006	0.010	23	1.2
PRS437922444658	21017BF	06/12/2021 19:41:32	19:43:31	0.006	0.011	23	1.4
PRS437922444658	21017BF	06/12/2021 19:43:59	19:45:58	0.007	0.011	23	1.4
PRS437922444658	21017GB	06/12/2021 19:50:09	19:52:12	0.007	0.013	25	1.2

GPS BASE	GPSID	UTC Start	UTC End	Horz Prec	Vert Prec	# of SV's	PDOP
PRS437922444658	21017GB	06/12/2021 19:52:51	19:54:50	0.007	0.013	25	1.2
PRS437922444658	21017GF	06/12/2021 20:03:11	20:05:10	0.007	0.013	27	1.1
PRS437922444658	21017GF	06/12/2021 20:05:40	20:07:39	0.007	0.013	22	1.1
PRS437922444658	21017BH	06/12/2021 20:17:10	20:19:09	0.008	0.016	25	1.2
PRS437922444658	21017BH	06/12/2021 20:19:40	20:21:39	0.007	0.016	23	1.2
PRS437922444658	21017GT	06/12/2021 20:27:18	20:29:28	0.009	0.020	23	1.2
PRS437922444658	21017GT	06/12/2021 20:29:50	20:31:49	0.008	0.021	20	1.3
PRS437922444658	21017HA	06/12/2021 20:43:44	20:45:43	0.007	0.014	23	1.3
PRS437922444658	21017HA	06/12/2021 20:46:14	20:48:13	0.007	0.013	23	1.3
PRS437922444658	21017PJ	06/12/2021 20:59:04	21:01:19	0.006	0.010	22	1.3
PRS437922444658	21017PJ	06/12/2021 21:01:41	21:03:40	0.006	0.011	16	1.6
PRS437922444658	21017BX	06/12/2021 21:16:59	21:18:58	0.005	0.009	23	1.1
PRS437922444658	21017BX	06/12/2021 21:19:26	21:21:25	0.007	0.010	22	1.2
PRS437922444658	21017IQ	06/12/2021 21:25:58	21:28:03	0.007	0.011	22	1.3
PRS437922444658	21017IQ	06/12/2021 21:28:25	21:30:24	0.007	0.011	16	1.6
PRS36921347831	21017EC	06/13/2021 12:17:13	12:19:12	0.010	0.014	18	1.4
PRS36921347831	21017EC	06/13/2021 12:19:37	12:21:36	0.010	0.013	14	1.5
PRS36921347831	21017TC	06/13/2021 12:25:55	12:27:54	0.010	0.014	21	1.2
PRS36921347831	21017TC	06/13/2021 12:28:24	12:30:23	0.012	0.015	17	1.3
PRS36921347831	21017MS	06/13/2021 12:38:31	12:40:30	0.012	0.014	20	1.2
PRS36921347831	21017MS	06/13/2021 12:40:48	12:42:47	0.012	0.014	14	1.5
PRS36921347831	21017MP	06/13/2021 12:49:55	12:51:54	0.011	0.016	21	1.2
PRS36921347831	21017MP	06/13/2021 12:52:26	12:54:25	0.012	0.016	21	1.2
PRS36921347831	21017SS	06/13/2021 13:04:32	13:06:31	0.007	0.008	22	1.2
PRS36921347831	21017SS	06/13/2021 13:06:56	13:08:55	0.008	0.008	17	1.4
PRS36921347831	21017ME	06/13/2021 13:14:55	13:16:54	0.008	0.013	22	1.2
PRS36921347831	21017ME	06/13/2021 13:17:19	13:19:18	0.009	0.012	15	1.6
PRS36921347831	21017DO	06/13/2021 13:27:46	13:31:01	0.009	0.010	9	1.3
PRS36921347831	21017DO	06/13/2021 13:32:56	13:34:55	0.008	0.011	21	1.4
PRS36921347831	21017MG	06/13/2021 13:46:54	13:49:00	0.008	0.011	22	1.2
PRS36921347831	21017MG	06/13/2021 13:49:26	13:51:25	0.008	0.011	22	1.2
PRS36921347831	21017LZ	06/13/2021 14:06:03	14:08:02	0.009	0.015	21	1.2
PRS36921347831	21017LZ	06/13/2021 14:08:43	14:10:42	0.009	0.014	23	1.1
PRS36921347831	21017SO	06/13/2021 14:16:50	14:18:49	0.010	0.018	22	1.1
PRS36921347831	21017SO	06/13/2021 14:19:54	14:21:53	0.009	0.017	23	1.1
PRS36921347831	21017DQ	06/13/2021 14:27:07	14:29:09	0.010	0.014	22	1.2
PRS36921347831	21017DQ	06/13/2021 14:29:44	14:31:43	0.009	0.014	22	1.1
PRS36921347831	21017MQ	06/13/2021 14:42:23	14:44:22	0.009	0.014	21	1.2
PRS36921347831	21017MQ	06/13/2021 14:44:55	14:46:54	0.009	0.014	20	1.3
PRS13093535282	21017ED	06/13/2021 14:56:54	14:58:53	0.009	0.012	22	1.1
PRS13093535282	21017ED	06/13/2021 14:59:55	15:01:54	0.010	0.012	22	1.1
PRS362080334314	21017DK	06/13/2021 15:34:21	15:36:20	0.010	0.013	20	1.1
PRS362080334314	21017DK	06/13/2021 15:36:44	15:38:43	0.010	0.014	14	1.3
PRS362080334314	21017SM	06/13/2021 15:52:03	15:54:02	0.012	0.014	20	1.1
PRS362080334314	21017SM	06/13/2021 15:56:36	15:58:35	0.009	0.012	18	1.3
PRS362080334314	21017DL	06/13/2021 16:05:33	16:07:32	0.011	0.015	19	1.2
PRS362080334314	21017DL	06/13/2021 16:07:57	16:09:56	0.010	0.013	14	1.5
PRS362080334314	21017DB	06/13/2021 16:27:25	16:29:24	0.008	0.012	19	1.4
PRS362080334314	21017DB	06/13/2021 16:29:57	16:31:56	0.009	0.012	16	1.3
PRS40143348903	21017DM	06/13/2021 16:47:03	16:49:02	0.010	0.017	18	1.3
PRS40143348903	21017DM	06/13/2021 16:49:36	16:51:35	0.010	0.017	18	1.3
PRS40143348903	21017DT	06/13/2021 17:04:36	17:06:35	0.010	0.016	18	1.4
PRS40143348903	21017DT	06/13/2021 17:07:03	17:09:02	0.009	0.014	17	1.4
PRS40143348903	21017TB	06/13/2021 17:21:32	17:23:31	0.008	0.012	21	1.2
PRS40143348903	21017TB	06/13/2021 17:23:57	17:25:56	0.008	0.012	16	1.4
PRS40143348903	21017NA	06/13/2021 17:33:00	17:34:59	0.008	0.015	21	1.2
PRS40143348903	21017NA	06/13/2021 17:35:23	17:37:22	0.009	0.016	16	1.4
PRS13093535282	21017EF	06/13/2021 17:42:32	17:44:31	0.009	0.012	22	1.1
PRS13093535282	21017EF	06/13/2021 17:46:31	17:48:30	0.008	0.010	22	1.1
PRS40143348903	21017TE	06/13/2021 17:57:12	17:59:11	0.008	0.011	19	1.3
PRS40143348903	21017TE	06/13/2021 17:59:32	18:01:31	0.008	0.011	13	1.6
PRS40143348903	21017MT	06/13/2021 18:10:57	18:12:56	0.007	0.008	18	1.4
PRS40143348903	21017MT	06/13/2021 18:13:48	18:15:47	0.008	0.010	17	1.6
PRS40143348903	21017DU	06/13/2021 18:23:35	18:25:34	0.005	0.008	18	1.5

GPS BASE	GPSID	UTC Start	UTC End	Horz Prec	Vert Prec	# of SV's	PDOP
PRS40143348903	21017DU	06/13/2021 18:25:56	18:27:55	0.005	0.008	12	2.0
PRS40143348903	21017ND	06/13/2021 18:42:13	18:44:17	0.009	0.013	19	1.2
PRS40143348903	21017ND	06/13/2021 18:44:50	18:46:49	0.009	0.014	18	1.3
PRS40143348903	21017MV	06/13/2021 18:59:31	19:01:30	0.009	0.013	18	1.4
PRS40143348903	21017MV	06/13/2021 19:01:50	19:03:52	0.008	0.012	12	1.8
PRS40143348903	21017NC	06/13/2021 19:17:35	19:19:34	0.010	0.019	17	1.5
PRS40143348903	21017NC	06/13/2021 19:22:55	19:24:54	0.009	0.015	15	2.1
PRS40143348903	21017DX	06/13/2021 19:36:05	19:38:04	0.012	0.023	17	2.0
PRS40143348903	21017DX	06/13/2021 19:38:44	19:40:45	0.012	0.019	13	2.1
PRS259234895786	21017DY	06/22/2021 16:59:40	17:02:22	0.007	0.011	15	1.4
PRS259234895786	21017DY	06/22/2021 17:03:18	17:05:19	0.008	0.012	15	1.4
PRS259234895786	21017MX	06/22/2021 17:24:50	17:26:49	0.011	0.018	13	1.5
PRS259234895786	21017MX	06/22/2021 17:27:15	17:29:15	0.012	0.017	14	1.4
PRS259234895786	21017MY	06/22/2021 17:35:08	17:37:07	0.012	0.020	12	1.7
PRS259234895786	21017MY	06/22/2021 17:38:01	17:40:01	0.011	0.020	12	1.7
PRS84328506003	21017DV	06/22/2021 17:46:40	17:48:40	0.012	0.016	13	1.4
PRS84328506003	21017DV	06/22/2021 17:49:21	17:51:20	0.011	0.017	13	1.4
PRS83059441571	21017NB	06/22/2021 18:06:26	18:08:26	0.014	0.019	15	1.3
PRS83059441571	21017NB	06/22/2021 18:08:56	18:10:58	0.012	0.016	15	1.3
PRS84328506003	21017DW	06/22/2021 18:21:41	18:23:40	0.011	0.015	15	1.3
PRS84328506003	21017DW	06/22/2021 18:24:10	18:26:09	0.011	0.017	15	1.3
PRS83059441571	21017NE	06/22/2021 18:38:03	18:40:02	0.011	0.018	15	1.6
PRS83059441571	21017NE	06/22/2021 18:40:57	18:42:57	0.013	0.019	14	1.8
PRS83059441571	21017NE	06/22/2021 18:43:59	18:45:59	0.012	0.019	14	1.8
PRS83059441571	21017EB	06/22/2021 18:59:24	19:01:25	0.009	0.018	13	2.0
PRS83059441571	21017EB	06/22/2021 19:02:12	19:04:11	0.009	0.017	14	1.5
PRS83059441571	21017NF	06/22/2021 19:08:43	19:10:42	0.009	0.018	14	1.5
PRS83059441571	21017NF	06/22/2021 19:11:50	19:13:50	0.009	0.017	15	1.4
PRS83059441571	21017NG	06/22/2021 19:39:03	19:41:03	0.008	0.019	14	1.5
PRS83059441571	21017NG	06/22/2021 19:42:53	19:44:52	0.010	0.022	14	1.5
PRS83059441571	21017EG	06/22/2021 19:55:13	19:57:13	0.007	0.015	13	1.7
PRS83059441571	21017EG	06/22/2021 19:57:45	19:59:44	0.009	0.018	11	2.5
PRS83059441571	21017TH	06/22/2021 20:14:38	20:16:37	0.009	0.017	12	1.8
PRS83059441571	21017TH	06/22/2021 20:18:14	20:20:13	0.010	0.018	12	1.7
PRS83059441571	21017NI	06/22/2021 20:27:25	20:29:24	0.011	0.020	12	1.7
PRS83059441571	21017NI	06/22/2021 20:29:59	20:32:00	0.011	0.020	12	1.6
PRS83059441571	21017TF	06/22/2021 20:41:54	20:43:54	0.013	0.020	12	1.5
PRS83059441571	21017TF	06/22/2021 20:44:37	20:46:36	0.013	0.017	13	1.5
PRS83059441571	21017TI	06/22/2021 20:56:15	20:58:15	0.015	0.023	12	1.6
PRS83059441571	21017TI	06/22/2021 21:00:05	21:02:05	0.015	0.020	11	1.7
PRS83059441571	21017NL	06/22/2021 21:10:52	21:12:52	0.016	0.018	14	1.4
PRS83059441571	21017NL	06/22/2021 21:13:48	21:15:47	0.021	0.021	13	1.4
PRS83059441571	21017NK	06/22/2021 21:23:23	21:25:22	0.017	0.019	11	1.4
PRS83059441571	21017NK	06/22/2021 21:26:38	21:28:37	0.018	0.022	13	1.4
PRS446474854618	21017TG	06/22/2021 21:39:14	21:41:28	0.021	0.030	13	1.4
PRS446474854618	21017TG	06/22/2021 21:42:28	21:44:28	0.021	0.028	14	1.3
PRS446474854618	21017TG	06/22/2021 21:44:49	21:46:54	0.023	0.032	13	1.3
PRS83059441571	21017EE	06/22/2021 21:57:33	21:59:46	0.022	0.028	12	1.6
PRS83059441571	21017EE	06/22/2021 22:00:48	22:02:47	0.022	0.029	12	1.6
PRS83059441571	21017EE	06/22/2021 22:03:21	22:05:22	0.019	0.036	12	1.6
PRS83059441571	21017EE	06/22/2021 22:06:07	22:09:01	0.015	0.047	12	1.6
PRS446474854618	21017NH	06/22/2021 22:22:20	22:25:34	0.012	0.021	12	1.9
PRS446474854618	21017NH	06/22/2021 22:28:04	22:30:16	0.010	0.019	13	1.9
PRS446474854618	21017NH	06/22/2021 22:30:45	22:32:44	0.011	0.021	14	1.7
PRS446474854618	21017EH	06/22/2021 22:47:20	22:49:19	0.012	0.020	14	1.6
PRS446474854618	21017EH	06/22/2021 22:49:54	22:51:53	0.011	0.018	14	1.6
PRS446474854618	21017NJ	06/22/2021 23:00:13	23:02:12	0.012	0.020	13	1.6
PRS446474854618	21017NJ	06/22/2021 23:04:27	23:06:26	0.012	0.018	13	1.6
PRS962726199560	21017MZ	06/22/2021 23:31:15	23:33:15	0.015	0.026	11	1.7
PRS962726199560	21017MZ	06/22/2021 23:34:02	23:34:50	0.031	0.032	11	1.7
PRS962726199560	21017DJ	06/22/2021 23:48:35	23:51:18	0.017	0.016	12	1.4
PRS962726199560	21017DJ	06/22/2021 23:52:08	23:54:08	0.017	0.018	12	1.3
PRS962726199560	21017DJ	06/22/2021 23:55:52	23:58:15	0.017	0.024	12	1.4
PRS962726199560	21017MB	06/23/2021 11:55:01	11:57:03	0.006	0.008	13	1.5

GPS BASE	GPSID	UTC Start	UTC End	Horz Prec	Vert Prec	# of SV's	PDOP
PRS962726199560	21017MB	06/23/2021 11:57:46	11:59:45	0.006	0.009	13	1.5
PRS962726199560	21017WA	06/23/2021 12:22:15	12:24:14	0.011	0.022	12	1.7
PRS962726199560	21017WA	06/23/2021 12:24:37	12:26:38	0.009	0.019	12	1.6
21017WA	21017TV	06/23/2021 12:57:26	13:00:29	0.010	0.017	21	1.5
21017WA	21017TV	06/23/2021 13:01:09	13:04:08	0.008	0.016	20	1.7
PRS962726199560	21017WB	06/23/2021 13:21:41	13:23:41	0.009	0.012	15	1.4
PRS962726199560	21017WB	06/23/2021 13:24:16	13:26:17	0.009	0.013	15	1.4
21017WB	21017TT	06/23/2021 13:42:29	13:45:29	0.005	0.011	22	1.3
21017WB	21017TT	06/23/2021 13:45:55	13:47:54	0.005	0.010	21	1.4
PRS962726199560	21017MJ	06/23/2021 13:57:39	13:59:38	0.008	0.013	13	1.8
PRS962726199560	21017MJ	06/23/2021 14:00:25	14:02:27	0.009	0.013	13	1.7
PRS962726199560	21017TA	06/23/2021 14:14:08	14:16:07	0.010	0.015	14	1.5
PRS962726199560	21017TA	06/23/2021 14:17:09	14:19:08	0.010	0.015	14	1.5
PRS962726199560	21017MU	06/23/2021 14:30:34	14:32:33	0.011	0.013	14	1.4
PRS962726199560	21017MU	06/23/2021 14:33:29	14:35:28	0.011	0.013	13	1.5
PRS83059441571	21017DS	06/23/2021 14:48:39	14:50:40	0.012	0.014	15	1.2
PRS83059441571	21017DS	06/23/2021 14:51:18	14:53:17	0.012	0.015	15	1.2
PRS83059441571	21017MW	06/23/2021 15:05:38	15:07:37	0.011	0.017	15	1.2
PRS83059441571	21017MW	06/23/2021 15:08:30	15:10:31	0.012	0.020	15	1.2
PRS83059441571	21017TD	06/23/2021 15:19:50	15:21:49	0.010	0.013	13	1.4
PRS83059441571	21017TD	06/23/2021 15:22:25	15:24:24	0.012	0.015	13	1.4
PRS962726199560	21017ML	06/23/2021 15:40:51	15:42:51	0.017	0.024	11	1.6
PRS962726199560	21017ML	06/23/2021 15:43:46	15:45:46	0.013	0.022	11	1.6
PRS962726199560	21017DC	06/23/2021 15:56:27	15:58:26	0.012	0.018	11	1.6
PRS962726199560	21017DC	06/23/2021 15:58:51	16:00:50	0.013	0.018	11	1.6
PRS962726199560	21017SF	06/23/2021 16:14:54	16:16:53	0.011	0.014	11	2.0
PRS962726199560	21017SF	06/23/2021 16:17:27	16:19:26	0.012	0.017	12	1.7
PRS962726199560	21017LQ	06/23/2021 16:31:07	16:33:06	0.010	0.013	12	1.6
PRS962726199560	21017LQ	06/23/2021 16:33:48	16:35:48	0.009	0.012	12	1.6
PRS962726199560	21017WC	06/23/2021 16:49:20	16:51:19	0.008	0.011	12	1.6
PRS962726199560	21017WC	06/23/2021 16:51:40	16:53:39	0.010	0.012	12	1.6
21017WC	21017TS	06/23/2021 16:58:35	17:01:35	0.005	0.007	21	1.2
21017WC	21017TS	06/23/2021 17:02:05	17:04:06	0.006	0.008	20	1.3
PRS962726199560	21017CN	06/23/2021 17:16:00	17:17:59	0.010	0.014	12	1.5
PRS962726199560	21017CN	06/23/2021 17:18:58	17:20:57	0.010	0.013	13	1.5
PRS962726199560	21017WD	06/23/2021 17:28:23	17:30:24	0.015	0.019	12	1.6
PRS962726199560	21017WD	06/23/2021 17:31:21	17:33:20	0.014	0.021	10	2.4
21017WD	21017TO	06/23/2021 17:38:01	17:40:06	0.010	0.009	20	1.4
21017WD	21017TO	06/23/2021 17:40:34	17:42:37	0.011	0.009	20	1.3
PRS962726199560	21017LM	06/23/2021 17:54:38	17:56:37	0.011	0.013	13	1.4
PRS962726199560	21017LM	06/23/2021 17:57:17	17:59:16	0.011	0.013	13	1.4
PRS962726199560	21017LL	06/23/2021 18:05:30	18:07:29	0.011	0.016	15	1.3
PRS962726199560	21017LL	06/23/2021 18:08:22	18:10:22	0.011	0.016	15	1.3
PRS962726199560	21017CM	06/23/2021 18:18:09	18:20:09	0.010	0.018	15	1.3
PRS962726199560	21017CM	06/23/2021 18:24:02	18:26:01	0.012	0.014	13	1.6
PRS962726199560	21017LA	06/23/2021 18:34:32	18:36:32	0.015	0.023	13	1.8
PRS962726199560	21017LA	06/23/2021 18:37:09	18:39:08	0.013	0.023	12	2.0
PRS962726199560	21017KR	06/23/2021 18:48:31	18:50:30	0.013	0.018	11	2.1
PRS962726199560	21017KR	06/23/2021 18:51:13	18:53:14	0.014	0.022	11	2.1
PRS962726199560	21017RB	06/23/2021 18:59:43	19:01:43	0.012	0.021	11	1.8
PRS962726199560	21017RB	06/23/2021 19:02:21	19:04:21	0.012	0.021	11	1.8
PRS4304259364	21017JW	06/23/2021 19:13:55	19:15:56	0.010	0.016	13	1.5
PRS4304259364	21017JW	06/23/2021 19:16:51	19:18:50	0.011	0.017	14	1.5
PRS4304259364	21017BV	06/23/2021 19:28:59	19:30:58	0.009	0.023	14	1.6
PRS4304259364	21017BV	06/23/2021 19:31:23	19:33:24	0.011	0.026	14	1.6
PRS4304259364	21017JO	06/23/2021 19:39:47	19:41:46	0.012	0.027	13	2.1
PRS4304259364	21017JO	06/23/2021 19:42:16	19:44:15	0.010	0.023	13	2.1
PRS4304259364	21017JM	06/23/2021 19:52:48	19:54:51	0.012	0.029	12	2.3
PRS4304259364	21017JM	06/23/2021 19:55:32	19:57:31	0.014	0.030	12	2.3
PRS4304259364	21017IX	06/23/2021 20:05:59	20:07:58	0.013	0.023	11	2.3
PRS4304259364	21017IX	06/23/2021 20:08:39	20:10:38	0.009	0.018	11	2.2
PRS4304259364	21017QC	06/23/2021 20:35:23	20:37:22	0.007	0.010	13	1.7
PRS4304259364	21017QC	06/23/2021 20:37:50	20:39:49	0.007	0.010	13	1.5
PRS4304259364	21017PZ	06/23/2021 20:50:39	20:52:38	0.009	0.013	14	1.5

GPS BASE	GPSID	UTC Start	UTC End	Horz Prec	Vert Prec	# of SV's	PDOP
PRS4304259364	21017PZ	06/23/2021 20:53:08	20:55:07	0.010	0.012	13	1.5
PRS4304259364	21017HS	06/23/2021 21:03:35	21:05:34	0.012	0.016	14	1.5
PRS4304259364	21017HS	06/23/2021 21:06:23	21:08:22	0.012	0.014	13	1.5
PRS4304259364	21017PI	06/23/2021 21:15:43	21:17:42	0.014	0.019	15	1.2
PRS4304259364	21017PI	06/23/2021 21:18:20	21:20:19	0.013	0.018	14	1.3
PRS4304259364	21017AU	06/23/2021 21:26:38	21:28:37	0.015	0.016	14	1.3
PRS4304259364	21017AU	06/23/2021 21:29:22	21:31:22	0.013	0.016	14	1.3
PRS4304259364	21017HO	06/23/2021 21:39:27	21:41:26	0.014	0.019	13	1.6
PRS4304259364	21017HO	06/23/2021 21:41:48	21:43:47	0.014	0.020	13	1.6
PRS4304259364	21017WE	06/23/2021 22:18:07	22:20:06	0.013	0.019	13	1.7
PRS4304259364	21017WE	06/23/2021 22:22:46	22:24:45	0.012	0.018	13	1.7
21017WE	21017TJ	06/23/2021 22:28:40	22:30:40	0.004	0.007	20	1.4
21017WE	21017TJ	06/23/2021 22:31:04	22:33:04	0.005	0.008	22	1.3
PRS4304259364	21017AZ	06/23/2021 22:48:18	22:50:17	0.013	0.020	13	1.7
PRS4304259364	21017AZ	06/23/2021 22:50:46	22:52:46	0.012	0.020	13	1.6
PRS4304259364	21017PS	06/23/2021 23:00:27	23:02:26	0.013	0.023	13	1.5
PRS4304259364	21017PS	06/23/2021 23:03:10	23:05:09	0.012	0.025	12	1.8
PRS574243535479	21017HW	06/23/2021 23:14:47	23:16:47	0.014	0.018	13	1.5
PRS574243535479	21017HW	06/23/2021 23:17:37	23:19:36	0.013	0.018	13	1.4
PRS574243535479	21017IR	06/23/2021 23:28:46	23:30:45	0.012	0.017	14	1.3
PRS574243535479	21017IR	06/23/2021 23:31:42	23:33:45	0.012	0.015	15	1.2
PRS4304259364	21017QO	06/23/2021 23:44:15	23:46:15	0.014	0.016	13	1.4
PRS4304259364	21017QO	06/23/2021 23:46:47	23:48:46	0.013	0.015	14	1.2
PRS4304259364	21017JY	06/23/2021 23:57:04	23:59:04	0.017	0.020	14	1.3
PRS4304259364	21017JY	06/24/2021 00:01:40	00:03:39	0.017	0.018	14	1.3
PRS284786311664	21017SB	06/24/2021 12:06:32	12:08:35	0.010	0.011	16	1.3
PRS284786311664	21017SB	06/24/2021 12:09:34	12:11:33	0.011	0.013	16	1.3
PRS284786311664	21017RW	06/24/2021 12:19:58	12:21:57	0.011	0.019	15	1.3
PRS284786311664	21017RW	06/24/2021 12:23:00	12:24:59	0.012	0.017	15	1.3
PRS284786311664	21017JX	06/24/2021 13:32:55	13:34:54	0.009	0.013	17	1.2
PRS284786311664	21017JX	06/24/2021 13:35:13	13:37:13	0.010	0.013	17	1.2
PRS574243535479	21017QK	06/24/2021 13:51:36	13:53:35	0.008	0.013	14	1.6
PRS574243535479	21017QK	06/24/2021 13:54:28	13:56:28	0.010	0.015	15	1.3
PRS574243535479	21017JH	06/24/2021 14:05:26	14:07:26	0.010	0.019	14	1.4
PRS574243535479	21017JH	06/24/2021 14:07:45	14:09:44	0.010	0.018	14	1.4
PRS574243535479	21017QL	06/24/2021 14:15:55	14:17:54	0.012	0.014	14	1.4
PRS574243535479	21017QL	06/24/2021 14:18:27	14:20:26	0.011	0.014	14	1.4
PRS574243535479	21017BO	06/24/2021 14:26:03	14:28:02	0.010	0.014	14	1.3
PRS574243535479	21017BO	06/24/2021 14:28:21	14:30:21	0.011	0.014	14	1.3
PRS574243535479	21017IM	06/24/2021 14:41:13	14:43:12	0.008	0.010	14	1.3
PRS574243535479	21017IM	06/24/2021 14:43:29	14:45:28	0.010	0.010	14	1.3
PRS574243535479	21017PO	06/24/2021 14:58:27	15:00:26	0.011	0.012	15	1.2
PRS574243535479	21017PO	06/24/2021 15:00:55	15:02:54	0.011	0.012	15	1.2
PRS574243535479	21017HK	06/24/2021 15:12:33	15:14:32	0.010	0.010	14	1.2
PRS574243535479	21017HK	06/24/2021 15:15:03	15:17:02	0.011	0.011	13	1.4
PRS574243535479	21017OX	06/24/2021 15:32:48	15:34:47	0.010	0.013	12	1.5
PRS574243535479	21017OX	06/24/2021 15:35:19	15:37:19	0.014	0.021	11	1.6
PRS574243535479	21017OX	06/24/2021 15:37:45	15:39:44	0.013	0.019	11	1.6
PRS574243535479	21017GS	06/24/2021 15:50:21	15:52:20	0.012	0.021	12	1.4
PRS574243535479	21017GS	06/24/2021 15:52:41	15:54:40	0.012	0.020	12	1.4
PRS574243535479	21017PL	06/24/2021 16:10:03	16:12:02	0.004	0.006	11	1.7
PRS574243535479	21017PL	06/24/2021 16:12:20	16:14:19	0.004	0.006	11	1.7
PRS574243535479	21017AX	06/24/2021 16:22:39	16:24:38	0.008	0.011	11	1.7
PRS574243535479	21017AX	06/24/2021 16:25:18	16:27:17	0.008	0.011	11	1.7
PRS574243535479	21017GN	06/24/2021 16:36:20	16:38:19	0.013	0.019	11	1.6
PRS574243535479	21017GN	06/24/2021 16:39:12	16:41:11	0.012	0.019	11	1.6
PRS574243535479	21017GC	06/24/2021 16:53:36	16:55:35	0.010	0.015	12	1.5
PRS574243535479	21017GC	06/24/2021 16:55:58	16:57:57	0.009	0.014	12	1.5
PRS574243535479	21017GK	06/24/2021 17:04:50	17:06:50	0.014	0.020	12	1.5
PRS574243535479	21017GK	06/24/2021 17:07:25	17:09:24	0.014	0.019	12	1.5
PRS574243535479	21017AQ	06/24/2021 17:17:37	17:19:36	0.014	0.017	12	1.5
PRS574243535479	21017AQ	06/24/2021 17:20:40	17:22:40	0.014	0.018	12	1.5
PRS574243535479	21017OJ	06/24/2021 17:30:04	17:32:03	0.015	0.022	11	1.7
PRS574243535479	21017OJ	06/24/2021 17:32:41	17:34:41	0.015	0.023	12	1.6

GPS BASE	GPSID	UTC Start	UTC End	Horz Prec	Vert Prec	# of SV's	PDOP
PRS574243535479	21017FK	06/24/2021 17:41:03	17:43:04	0.018	0.017	12	1.6
PRS574243535479	21017FK	06/24/2021 17:43:43	17:45:42	0.018	0.019	12	1.6
PRS574243535479	21017FN	06/24/2021 17:52:45	17:54:46	0.015	0.019	13	1.5
PRS574243535479	21017FN	06/24/2021 17:59:48	18:01:47	0.012	0.017	13	1.4
PRS574243535479	21017AO	06/24/2021 18:10:51	18:12:50	0.012	0.013	13	1.6
PRS574243535479	21017AO	06/24/2021 18:13:48	18:15:48	0.013	0.014	13	1.6
PRS1906221970	21017EW	06/24/2021 18:30:38	18:32:37	0.017	0.023	12	1.9
PRS1906221970	21017EW	06/24/2021 18:33:01	18:35:00	0.015	0.021	11	2.0
PRS1906221970	21017EV	06/24/2021 18:57:22	18:59:21	0.011	0.014	12	1.6
PRS1906221970	21017EV	06/24/2021 19:00:23	19:02:22	0.011	0.015	13	1.5
PRS1906221970	21017NX	06/24/2021 19:14:33	19:16:32	0.011	0.021	13	1.5
PRS1906221970	21017NX	06/24/2021 19:19:25	19:21:24	0.010	0.017	14	1.5
PRS1906221970	21017ER	06/24/2021 19:27:41	19:29:40	0.010	0.018	13	1.6
PRS1906221970	21017ER	06/24/2021 19:30:44	19:32:44	0.011	0.020	13	1.6
PRS1906221970	21017AE	06/24/2021 19:47:21	19:49:20	0.012	0.022	13	1.9
PRS1906221970	21017AE	06/24/2021 19:50:57	19:52:56	0.012	0.020	13	1.9
PRS237672809107	21017EM	06/24/2021 20:05:56	20:07:57	0.014	0.027	12	1.9
PRS237672809107	21017EM	06/24/2021 20:08:40	20:10:39	0.012	0.023	12	1.8
PRS237672809107	21017NR	06/24/2021 20:24:44	20:26:43	0.012	0.016	12	1.6
PRS237672809107	21017NR	06/24/2021 20:27:28	20:29:27	0.015	0.020	13	1.4
PRS237672809107	21017AB	06/24/2021 20:40:55	20:41:02	0.014	0.031	29	1.0
PRS237672809107	21017AB	06/24/2021 20:41:44	20:43:44	0.015	0.016	14	1.5
PRS237672809107	21017AB	06/24/2021 20:44:09	20:46:08	0.014	0.015	14	1.5
PRS237672809107	21017EL	06/24/2021 20:53:15	20:55:14	0.013	0.016	14	1.5
PRS237672809107	21017EL	06/24/2021 20:55:33	20:57:32	0.015	0.015	14	1.5
PRS237672809107	21017EN	06/24/2021 21:11:39	21:13:38	0.012	0.014	14	1.2
PRS237672809107	21017EN	06/24/2021 21:15:03	21:17:02	0.013	0.014	14	1.3
PRS237672809107	21017EQ	06/24/2021 21:25:18	21:27:17	0.015	0.023	14	1.3
PRS237672809107	21017EQ	06/24/2021 21:28:58	21:30:57	0.013	0.020	15	1.2
PRS237672809107	21017AH	06/24/2021 21:41:56	21:43:55	0.014	0.021	15	1.3
PRS237672809107	21017AH	06/24/2021 21:44:23	21:46:22	0.012	0.018	15	1.3
PRS1906221970	21017EZ	06/24/2021 22:00:50	22:02:49	0.011	0.017	14	1.4
PRS1906221970	21017EZ	06/24/2021 22:04:52	22:06:51	0.010	0.017	14	1.4
PRS951418102154	21017AM	06/24/2021 22:22:39	22:24:38	0.010	0.020	14	1.8
PRS951418102154	21017AM	06/24/2021 22:25:20	22:27:19	0.012	0.024	14	1.8
PRS951418102154	21017OC	06/24/2021 22:34:56	22:36:57	0.010	0.026	14	1.8
PRS951418102154	21017OC	06/24/2021 22:38:03	22:40:02	0.011	0.025	14	1.7
PRS951418102154	21017OH	06/24/2021 22:55:43	22:57:43	0.009	0.016	15	1.4
PRS951418102154	21017OH	06/24/2021 22:58:51	23:00:50	0.009	0.015	14	1.4
PRS951418102154	21017FT	06/24/2021 23:07:56	23:09:55	0.010	0.019	14	1.3
PRS951418102154	21017FT	06/24/2021 23:10:43	23:12:42	0.013	0.020	13	1.5
PRS951418102154	21017GU	06/24/2021 23:22:56	23:24:55	0.010	0.011	14	1.4
PRS951418102154	21017GU	06/24/2021 23:26:37	23:28:38	0.010	0.011	14	1.4
PRS951418102154	21017OV	06/24/2021 23:35:57	23:38:00	0.014	0.018	12	1.5
PRS951418102154	21017OV	06/24/2021 23:39:19	23:41:18	0.012	0.016	14	1.2
PRS253229457641	21017HC	06/24/2021 23:49:29	23:51:28	0.010	0.010	14	1.2
PRS253229457641	21017HC	06/24/2021 23:51:48	23:53:47	0.010	0.009	14	1.2
PRS253229457641	21017HB	06/24/2021 23:58:59	00:00:58	0.011	0.012	14	1.2
PRS253229457641	21017HB	06/25/2021 00:03:00	00:04:59	0.010	0.010	13	1.3
PRS253229457641	21017HX	06/25/2021 11:50:26	11:52:25	0.010	0.017	15	1.3
PRS253229457641	21017HX	06/25/2021 11:53:08	11:55:07	0.010	0.016	15	1.3
PRS253229457641	21017PV	06/25/2021 12:06:18	12:08:17	0.010	0.013	16	1.3
PRS253229457641	21017PV	06/25/2021 12:08:41	12:10:43	0.010	0.012	15	1.3
PRS951418102154	21017HJ	06/25/2021 12:26:12	12:28:11	0.011	0.015	14	1.6
PRS951418102154	21017HJ	06/25/2021 12:28:30	12:30:30	0.013	0.017	14	1.6
PRS951418102154	21017PB	06/25/2021 12:43:05	12:45:05	0.010	0.014	16	1.3
PRS951418102154	21017PB	06/25/2021 12:45:36	12:47:38	0.011	0.014	16	1.3
PRS951418102154	21017AY	06/25/2021 12:52:26	12:54:25	0.011	0.014	15	1.5
PRS951418102154	21017AY	06/25/2021 12:55:18	12:57:17	0.011	0.015	15	1.5
PRS951418102154	21017GP	06/25/2021 13:06:49	13:08:48	0.009	0.012	17	1.2
PRS951418102154	21017GP	06/25/2021 13:09:18	13:11:18	0.009	0.013	17	1.2
PRS951418102154	21017GE	06/25/2021 13:18:33	13:20:32	0.011	0.021	17	1.2
PRS951418102154	21017GE	06/25/2021 13:21:15	13:23:15	0.011	0.018	17	1.2
PRS951418102154	21017OS	06/25/2021 13:33:27	13:35:35	0.009	0.014	15	1.3

GPS BASE	GPSID	UTC Start	UTC End	Horz Prec	Vert Prec	# of SV's	PDOP
PRS951418102154	21017OS	06/25/2021 13:36:32	13:38:31	0.010	0.014	15	1.3
PRS574243535479	21017PQ	06/25/2021 13:57:10	13:59:09	0.011	0.015	13	1.5
PRS574243535479	21017PQ	06/25/2021 13:59:59	14:01:58	0.011	0.016	13	1.5
PRS574243535479	21017QE	06/25/2021 14:11:48	14:13:48	0.012	0.016	13	1.4
PRS574243535479	21017QE	06/25/2021 14:15:40	14:17:39	0.012	0.015	13	1.4
PRS574243535479	21017BK	06/25/2021 14:27:35	14:29:34	0.013	0.015	12	1.6
PRS574243535479	21017BK	06/25/2021 14:30:30	14:32:29	0.014	0.014	13	1.5
PRS574243535479	21017PR	06/25/2021 14:36:45	14:38:46	0.012	0.013	13	1.5
PRS574243535479	21017PR	06/25/2021 14:39:28	14:41:28	0.012	0.014	13	1.3
PRS574243535479	21017IH	06/25/2021 14:50:22	14:52:21	0.013	0.020	13	1.3
PRS574243535479	21017IH	06/25/2021 14:52:42	14:54:45	0.013	0.018	13	1.3
PRS574243535479	21017ID	06/25/2021 15:03:43	15:05:42	0.012	0.013	13	1.3
PRS574243535479	21017ID	06/25/2021 15:06:30	15:08:29	0.010	0.011	14	1.3
PRS574243535479	21017PT	06/25/2021 15:20:07	15:22:07	0.012	0.013	12	1.5
PRS574243535479	21017PT	06/25/2021 15:22:42	15:24:42	0.011	0.013	12	1.5
PRS574243535479	21017IT	06/25/2021 15:34:05	15:36:04	0.014	0.020	11	1.6
PRS574243535479	21017IT	06/25/2021 15:37:30	15:39:29	0.011	0.016	12	1.5
PRS574243535479	21017BR	06/25/2021 15:49:42	15:51:41	0.012	0.017	13	1.3
PRS574243535479	21017BR	06/25/2021 15:52:09	15:54:09	0.013	0.017	12	1.5
PRS574243535479	21017JJ	06/25/2021 16:00:47	16:02:46	0.012	0.022	11	1.6
PRS574243535479	21017JJ	06/25/2021 16:03:25	16:05:24	0.013	0.021	11	1.6
PRS284786311664	21017JZ	06/25/2021 16:21:57	16:23:56	0.012	0.017	11	1.7
PRS284786311664	21017JZ	06/25/2021 16:24:31	16:26:32	0.011	0.015	12	1.6
PRS284786311664	21017QZ	06/25/2021 16:33:34	16:35:33	0.011	0.016	11	1.8
PRS284786311664	21017QZ	06/25/2021 16:36:55	16:38:58	0.010	0.015	12	1.7
PRS84328506003	21017RF	06/25/2021 16:49:22	16:51:22	0.012	0.013	12	1.6
PRS84328506003	21017RF	06/25/2021 16:52:44	16:54:43	0.012	0.014	12	1.6
PRS84328506003	21017CG	06/25/2021 17:01:26	17:03:25	0.012	0.018	12	1.6
PRS84328506003	21017CG	06/25/2021 17:05:10	17:07:09	0.013	0.018	10	2.1
PRS284786311664	21017KE	06/25/2021 17:24:47	17:26:47	0.014	0.016	10	2.2
PRS284786311664	21017KE	06/25/2021 17:27:46	17:29:45	0.016	0.016	10	2.2
PRS284786311664	21017CK	06/25/2021 17:41:02	17:43:01	0.008	0.008	12	1.7
PRS284786311664	21017CK	06/25/2021 17:43:21	17:45:20	0.009	0.009	12	1.7
PRS84328506003	21017RN	06/25/2021 17:56:26	17:58:27	0.010	0.013	12	1.5
PRS84328506003	21017RN	06/25/2021 17:59:15	18:01:14	0.011	0.012	13	1.3
PRS84328506003	21017SC	06/25/2021 18:17:11	18:19:12	0.009	0.012	11	1.8
PRS84328506003	21017SC	06/25/2021 18:21:03	18:23:02	0.009	0.011	13	1.6
PRS84328506003	21017DD	06/25/2021 18:36:31	18:38:30	0.011	0.017	12	2.0
PRS84328506003	21017DD	06/25/2021 18:39:49	18:41:52	0.011	0.017	12	2.1
PRS84328506003	21017WF	06/25/2021 19:04:39	19:06:38	0.009	0.016	14	1.5
PRS84328506003	21017WF	06/25/2021 19:07:33	19:09:33	0.011	0.017	15	1.3
21017WF	21017TW	06/25/2021 19:13:22	19:15:21	0.008	0.010	24	1.3
21017WF	21017TW	06/25/2021 19:15:55	19:17:54	0.009	0.012	21	1.4
PRS84328506003	21017WG	06/25/2021 19:34:57	19:36:56	0.011	0.024	12	2.7
PRS84328506003	21017WG	06/25/2021 19:37:24	19:39:23	0.012	0.026	12	2.0
PRS84328506003	21017WG	06/25/2021 19:39:45	19:41:44	0.012	0.027	12	2.9
21017WG	21017TU	06/25/2021 19:50:52	19:53:22	0.013	0.025	18	1.7
21017WG	21017TU	06/25/2021 19:55:24	19:58:04	0.020	0.065	17	2.0
PRS84328506003	21017MO	06/25/2021 20:06:39	20:08:41	0.011	0.024	13	1.9
PRS84328506003	21017MO	06/25/2021 20:09:43	20:11:42	0.013	0.022	13	1.6
PRS84328506003	21017MO	06/25/2021 20:12:20	20:14:19	0.013	0.025	14	1.6
PRS84328506003	21017SY	06/25/2021 20:22:27	20:24:26	0.012	0.023	13	1.5
PRS84328506003	21017SY	06/25/2021 20:27:45	20:29:44	0.012	0.022	13	1.5
PRS84328506003	21017MK	06/25/2021 20:43:25	20:45:25	0.010	0.017	14	1.5
PRS84328506003	21017MK	06/25/2021 20:46:38	20:48:39	0.010	0.015	14	1.4
PRS84328506003	21017DF	06/25/2021 20:59:28	21:01:28	0.013	0.015	15	1.3
PRS84328506003	21017DF	06/25/2021 21:02:19	21:04:18	0.012	0.012	15	1.3
PRS84328506003	21017LV	06/25/2021 21:14:00	21:16:00	0.011	0.012	15	1.2
PRS84328506003	21017LV	06/25/2021 21:16:58	21:18:58	0.009	0.011	15	1.2
PRS84328506003	21017SA	06/25/2021 21:28:23	21:30:23	0.011	0.012	15	1.2
PRS84328506003	21017SA	06/25/2021 21:31:03	21:33:03	0.010	0.013	15	1.2
PRS84328506003	21017MA	06/25/2021 21:46:16	21:48:15	0.009	0.013	15	1.3
PRS84328506003	21017MA	06/25/2021 21:48:39	21:50:38	0.011	0.014	14	1.4
PRS84328506003	21017DN	06/25/2021 22:03:35	22:05:34	0.013	0.020	14	1.3

GPS BASE	GPSID	UTC Start	UTC End	Horz Prec	Vert Prec	# of SV's	PDOP
PRS84328506003	21017DN	06/25/2021 22:06:00	22:07:59	0.011	0.017	14	1.3
PRS84328506003	21017CY	06/25/2021 22:23:01	22:25:00	0.013	0.020	14	1.7
PRS84328506003	21017CY	06/25/2021 22:25:23	22:27:22	0.012	0.021	14	1.7
PRS84328506003	21017LP	06/25/2021 22:33:00	22:34:59	0.013	0.024	14	1.8
PRS84328506003	21017LP	06/25/2021 22:35:31	22:37:32	0.013	0.023	14	1.8
PRS480651133147	21017RT	06/25/2021 22:50:13	22:52:12	0.012	0.019	14	1.7
PRS480651133147	21017RT	06/25/2021 22:57:00	22:59:00	0.012	0.018	13	1.7
PRS480651133147	21017LF	06/25/2021 23:06:26	23:08:25	0.011	0.019	13	1.6
PRS480651133147	21017LF	06/25/2021 23:08:57	23:10:58	0.013	0.021	14	1.5
PRS480651133147	21017LB	06/25/2021 23:17:27	23:19:28	0.013	0.023	14	1.4
PRS480651133147	21017LB	06/25/2021 23:21:16	23:23:16	0.011	0.020	13	1.6
PRS253229457641	21017BI	06/26/2021 11:38:23	11:40:22	0.008	0.011	13	1.5
PRS253229457641	21017BI	06/26/2021 11:42:07	11:44:06	0.009	0.013	15	1.3
PRS253229457641	21017IL	06/26/2021 11:55:49	11:57:48	0.011	0.014	14	1.4
PRS253229457641	21017IL	06/26/2021 12:00:20	12:02:19	0.011	0.015	15	1.4
PRS253229457641	21017JB	06/26/2021 12:16:15	12:18:14	0.011	0.017	14	1.6
PRS253229457641	21017JB	06/26/2021 12:19:57	12:21:56	0.010	0.015	14	1.5
PRS253229457641	21017BT	06/26/2021 12:37:47	12:39:47	0.010	0.016	14	1.6
PRS253229457641	21017BT	06/26/2021 12:40:55	12:42:54	0.010	0.015	12	1.7
PRS253229457641	21017JC	06/26/2021 12:49:32	12:51:32	0.014	0.021	13	1.6
PRS253229457641	21017JC	06/26/2021 12:52:09	12:54:08	0.011	0.019	13	1.6
PRS84328506003	21017QQ	06/26/2021 13:02:54	13:04:53	0.010	0.015	15	1.3
PRS84328506003	21017QQ	06/26/2021 13:05:48	13:07:47	0.010	0.016	15	1.3
PRS84328506003	21017CL	06/26/2021 13:18:37	13:20:37	0.011	0.016	14	1.4
PRS84328506003	21017CL	06/26/2021 13:20:59	13:22:58	0.010	0.015	14	1.3
PRS84328506003	21017RE	06/26/2021 13:29:00	13:30:59	0.010	0.017	13	1.5
PRS84328506003	21017RE	06/26/2021 13:33:58	13:35:57	0.009	0.016	13	1.5
PRS480651133147	21017KP	06/26/2021 13:49:17	13:51:23	0.009	0.015	13	1.6
PRS480651133147	21017KP	06/26/2021 13:52:00	13:53:59	0.010	0.015	12	1.6
PRS480651133147	21017CD	06/26/2021 14:05:12	14:07:11	0.012	0.016	13	1.4
PRS480651133147	21017CD	06/26/2021 14:08:22	14:10:21	0.013	0.016	13	1.4
PRS480651133147	21017QX	06/26/2021 14:21:59	14:24:00	0.014	0.020	12	1.7
PRS480651133147	21017QX	06/26/2021 14:26:24	14:28:23	0.011	0.017	12	1.6
PRS480651133147	21017JL	06/26/2021 14:52:47	14:54:46	0.010	0.012	14	1.3
PRS480651133147	21017JL	06/26/2021 14:58:21	15:00:20	0.011	0.013	14	1.3
PRS480651133147	21017JQ	06/26/2021 15:17:37	15:19:36	0.014	0.018	12	1.6
PRS480651133147	21017JQ	06/26/2021 15:23:51	15:25:52	0.012	0.016	12	1.6
PRS362080334314	21017JE	06/26/2021 15:47:20	15:49:19	0.017	0.025	13	1.4
PRS362080334314	21017JE	06/26/2021 15:50:23	15:52:23	0.015	0.024	13	1.5
PRS362080334314	21017BY	06/26/2021 15:57:22	15:59:21	0.019	0.028	12	1.6
PRS362080334314	21017BY	06/26/2021 16:00:43	16:02:42	0.015	0.022	13	1.5
PRS362080334314	21017JT	06/26/2021 16:25:30	16:27:29	0.013	0.018	12	1.7
PRS362080334314	21017JT	06/26/2021 16:28:45	16:30:44	0.011	0.017	12	1.7
PRS362080334314	21017CO	06/26/2021 16:52:59	16:54:58	0.013	0.019	12	1.6
PRS362080334314	21017CO	06/26/2021 16:56:01	16:58:01	0.011	0.015	12	1.6
PRS362080334314	21017CO	06/26/2021 16:58:33	17:00:32	0.011	0.017	12	1.6
PRS362080334314	21017KK	06/26/2021 17:10:45	17:12:45	0.010	0.016	13	1.4
PRS362080334314	21017KK	06/26/2021 17:13:08	17:15:07	0.011	0.016	13	1.4
PRS362080334314	21017KJ	06/26/2021 17:20:52	17:22:51	0.013	0.019	11	1.6
PRS362080334314	21017KJ	06/26/2021 17:24:07	17:26:10	0.011	0.018	12	1.4
PRS362080334314	21017CJ	06/26/2021 17:33:43	17:35:42	0.011	0.014	13	1.4
PRS362080334314	21017CJ	06/26/2021 17:37:58	17:39:57	0.011	0.013	13	1.4
PRS362080334314	21017QW	06/26/2021 17:46:37	17:48:37	0.011	0.017	14	1.3
PRS362080334314	21017QW	06/26/2021 17:49:13	17:51:12	0.010	0.018	14	1.3
PRS362080334314	21017PY	06/26/2021 18:17:38	18:19:49	0.009	0.015	14	1.7
PRS362080334314	21017PY	06/26/2021 18:20:38	18:22:37	0.011	0.017	14	1.8
PRS362080334314	21017BS	06/26/2021 18:28:43	18:30:42	0.011	0.019	13	2.0
PRS362080334314	21017BS	06/26/2021 18:32:52	18:34:52	0.009	0.017	13	2.0
PRS362080334314	21017HZ	06/26/2021 18:41:49	18:43:48	0.010	0.020	14	1.5
PRS362080334314	21017HZ	06/26/2021 18:45:48	18:47:47	0.010	0.021	14	1.5
PRS362080334314	21017IA	06/26/2021 18:53:59	18:55:58	0.008	0.019	15	1.5
PRS362080334314	21017IA	06/26/2021 18:56:38	18:58:37	0.009	0.019	16	1.4
PRS362080334314	21017QF	06/26/2021 19:11:33	19:13:33	0.012	0.021	16	1.4
PRS362080334314	21017QF	06/26/2021 19:14:49	19:16:48	0.010	0.018	16	1.4

GPS BASE	GPSID	UTC Start	UTC End	Horz Prec	Vert Prec	# of SV's	PDOP
PRS362080334314	21017QM	06/26/2021 19:25:10	19:27:09	0.009	0.018	15	1.5
PRS362080334314	21017QM	06/26/2021 19:31:09	19:33:08	0.008	0.017	14	1.8
PRS362080334314	21017BW	06/26/2021 19:48:28	19:50:28	0.008	0.017	15	1.6
PRS362080334314	21017BW	06/26/2021 19:51:08	19:53:07	0.010	0.020	15	1.6
PRS362080334314	21017HT	06/26/2021 20:04:11	20:06:10	0.013	0.026	13	1.7
PRS362080334314	21017HT	06/26/2021 20:06:53	20:08:52	0.013	0.024	13	1.6
PRS362080334314	21017PK	06/26/2021 20:14:42	20:16:41	0.013	0.024	13	1.5
PRS362080334314	21017PK	06/26/2021 20:18:49	20:20:48	0.014	0.023	14	1.4
PRS362080334314	21017IE	06/26/2021 20:34:03	20:36:03	0.015	0.021	15	1.4
PRS362080334314	21017IE	06/26/2021 20:36:28	20:38:29	0.017	0.022	15	1.4
PRS362080334314	21017IK	06/26/2021 20:45:36	20:47:35	0.014	0.021	15	1.4
PRS362080334314	21017IK	06/26/2021 20:49:15	20:51:16	0.013	0.018	15	1.4
PRS362080334314	21017QD	06/26/2021 21:02:29	21:04:30	0.013	0.019	16	1.2
PRS362080334314	21017QD	06/26/2021 21:05:12	21:07:13	0.014	0.020	16	1.2
PRS362080334314	21017II	06/26/2021 21:15:22	21:17:21	0.014	0.022	16	1.2
PRS362080334314	21017II	06/26/2021 21:18:52	21:20:51	0.013	0.022	16	1.2
PRS253229457641	21017HV	06/26/2021 21:30:42	21:32:42	0.012	0.016	16	1.2
PRS253229457641	21017HV	06/26/2021 21:33:27	21:35:27	0.012	0.017	15	1.4
PRS253229457641	21017PF	06/26/2021 21:42:28	21:44:28	0.011	0.016	15	1.4
PRS253229457641	21017PF	06/26/2021 21:45:35	21:47:34	0.011	0.017	15	1.4
PRS253229457641	21017PC	06/26/2021 21:57:41	21:59:40	0.010	0.016	15	1.3
PRS253229457641	21017PC	06/26/2021 22:00:03	22:02:02	0.012	0.018	15	1.3
PRS253229457641	21017QI	06/26/2021 22:16:21	22:18:20	0.011	0.018	15	1.6
PRS253229457641	21017QI	06/26/2021 22:19:07	22:21:07	0.010	0.018	15	1.5
PRS253229457641	21017IW	06/26/2021 22:32:09	22:34:08	0.010	0.015	15	1.5
PRS253229457641	21017IW	06/26/2021 22:34:30	22:36:30	0.010	0.016	15	1.5
PRS253229457641	21017BQ	06/26/2021 22:43:46	22:45:45	0.010	0.020	16	1.3
PRS253229457641	21017BQ	06/26/2021 22:46:33	22:48:34	0.010	0.019	16	1.3
PRS253229457641	21017PP	06/26/2021 22:57:11	22:59:10	0.011	0.015	15	1.3
PRS253229457641	21017PP	06/26/2021 22:59:57	23:01:56	0.011	0.015	15	1.2
PRS253229457641	21017HI	06/26/2021 23:09:15	23:11:14	0.014	0.023	13	1.6
PRS253229457641	21017HI	06/26/2021 23:13:08	23:15:07	0.014	0.025	13	1.6
PRS253229457641	21017HL	06/26/2021 23:23:06	23:25:06	0.013	0.015	14	1.5
PRS253229457641	21017HL	06/26/2021 23:26:26	23:28:25	0.012	0.014	14	1.4
PRS253229457641	21017IC	06/26/2021 23:38:09	23:40:08	0.011	0.013	14	1.3
PRS253229457641	21017IC	06/26/2021 23:40:36	23:41:35	0.013	0.016	15	1.2
PRS253229457641	21017IC	06/26/2021 23:42:39	23:44:38	0.013	0.013	15	1.2
PRS253229457641	21017PG	06/26/2021 23:57:06	23:59:05	0.009	0.009	15	1.3
PRS253229457641	21017PG	06/27/2021 00:00:41	00:02:41	0.008	0.009	14	1.4
PRS253229457641	21017GJ	06/27/2021 11:46:59	11:48:58	0.008	0.013	13	1.5
PRS253229457641	21017GJ	06/27/2021 11:50:39	11:52:38	0.008	0.013	13	1.5
PRS951418102154	21017FP	06/27/2021 12:01:25	12:03:26	0.009	0.012	15	1.3
PRS951418102154	21017FP	06/27/2021 12:04:35	12:06:34	0.009	0.013	15	1.3
PRS951418102154	21017AR	06/27/2021 12:15:05	12:17:04	0.009	0.013	14	1.5
PRS951418102154	21017AR	06/27/2021 12:17:49	12:19:49	0.011	0.016	13	1.6
PRS951418102154	21017FB	06/27/2021 12:26:28	12:28:28	0.012	0.016	12	1.8
PRS951418102154	21017FB	06/27/2021 12:28:59	12:30:58	0.011	0.015	12	1.8
PRS951418102154	21017OD	06/27/2021 12:36:16	12:38:15	0.009	0.016	12	1.8
PRS951418102154	21017OD	06/27/2021 12:39:06	12:41:05	0.012	0.018	12	1.9
PRS951418102154	21017FO	06/27/2021 12:49:18	12:51:19	0.009	0.012	14	1.7
PRS951418102154	21017FO	06/27/2021 12:51:44	12:53:43	0.007	0.010	14	1.7
PRS951418102154	21017FX	06/27/2021 13:02:37	13:04:37	0.007	0.014	16	1.3
PRS951418102154	21017FX	06/27/2021 13:05:05	13:07:04	0.008	0.015	16	1.3
PRS253229457641	21017OT	06/27/2021 14:53:00	14:54:59	0.011	0.012	14	1.3
PRS253229457641	21017OT	06/27/2021 14:56:16	14:58:15	0.009	0.010	14	1.3
PRS951418102154	21017FE	06/27/2021 15:14:02	15:16:03	0.010	0.013	13	1.4
PRS951418102154	21017FE	06/27/2021 15:16:33	15:18:32	0.011	0.013	13	1.4
PRS951418102154	21017NY	06/27/2021 15:28:49	15:30:48	0.012	0.015	14	1.3
PRS951418102154	21017NY	06/27/2021 15:31:19	15:33:18	0.011	0.015	14	1.2
PRS951418102154	21017AN	06/27/2021 15:45:44	15:47:46	0.012	0.015	14	1.3
PRS951418102154	21017AN	06/27/2021 15:48:20	15:50:21	0.011	0.015	14	1.3
PRS951418102154	21017OI	06/27/2021 16:04:53	16:06:52	0.010	0.016	12	1.6
PRS951418102154	21017OI	06/27/2021 16:07:37	16:09:36	0.011	0.014	13	1.5
PRS253229457641	21017GA	06/27/2021 16:17:43	16:19:45	0.011	0.013	13	1.6

GPS BASE	GPSID	UTC Start	UTC End	Horz Prec	Vert Prec	# of SV's	PDOP
PRS253229457641	21017GA	06/27/2021 16:20:09	16:22:08	0.010	0.014	13	1.6
PRS253229457641	21017AW	06/27/2021 16:28:46	16:30:45	0.010	0.018	13	1.6
PRS253229457641	21017AW	06/27/2021 16:31:16	16:33:15	0.010	0.019	12	1.7
PRS253229457641	21017OY	06/27/2021 16:42:07	16:44:06	0.009	0.012	14	1.5
PRS253229457641	21017OY	06/27/2021 16:44:44	16:46:43	0.011	0.015	14	1.5
PRS253229457641	21017FZ	06/27/2021 16:57:29	16:59:29	0.013	0.020	13	1.4
PRS253229457641	21017FZ	06/27/2021 17:00:06	17:02:05	0.014	0.021	12	1.6
PRS253229457641	21017FG	06/27/2021 17:15:10	17:17:09	0.016	0.025	12	1.6
PRS253229457641	21017FG	06/27/2021 17:19:20	17:21:19	0.017	0.022	13	1.5
PRS42122199625	21017EY	06/27/2021 17:33:03	17:35:03	0.019	0.019	13	1.4
PRS42122199625	21017EY	06/27/2021 17:35:32	17:37:31	0.015	0.019	13	1.4
PRS42122199625	21017AL	06/27/2021 17:49:39	17:51:39	0.013	0.017	15	1.2
PRS42122199625	21017AL	06/27/2021 17:52:23	17:54:23	0.014	0.018	15	1.3
PRS42122199625	21017FD	06/27/2021 18:04:48	18:06:47	0.019	0.022	14	1.4
PRS42122199625	21017FD	06/27/2021 18:07:14	18:09:14	0.017	0.019	13	1.5
PRS253229457641	21017GG	06/27/2021 18:22:23	18:24:22	0.019	0.025	12	1.9
PRS253229457641	21017GG	06/27/2021 18:25:02	18:27:02	0.016	0.022	12	1.9
PRS253229457641	21017AV	06/27/2021 18:31:16	18:33:15	0.019	0.029	8	3.2
PRS253229457641	21017AV	06/27/2021 18:34:14	18:36:13	0.016	0.025	12	2.1
PRS138622485611	21017OP	06/27/2021 18:46:36	18:48:36	0.014	0.023	13	1.6
PRS138622485611	21017OP	06/27/2021 18:49:19	18:51:19	0.015	0.025	13	1.6
PRS138622485611	21017GO	06/27/2021 19:02:08	19:04:08	0.012	0.020	15	1.3
PRS138622485611	21017GO	06/27/2021 19:04:35	19:06:34	0.014	0.023	16	1.3
PRS138622485611	21017BC	06/27/2021 19:15:15	19:17:15	0.013	0.021	15	1.4
PRS138622485611	21017BC	06/27/2021 19:17:49	19:19:48	0.014	0.024	15	1.4
PRS138622485611	21017GL	06/27/2021 19:25:36	19:27:35	0.015	0.032	16	1.4
PRS138622485611	21017GL	06/27/2021 19:28:19	19:30:18	0.014	0.026	16	1.4
PRS138622485611	21017OK	06/27/2021 19:43:04	19:45:07	0.011	0.021	15	1.8
PRS138622485611	21017OK	06/27/2021 19:46:11	19:48:10	0.016	0.034	14	2.0
PRS138622485611	21017AP	06/27/2021 19:59:33	20:01:33	0.012	0.029	13	1.9
PRS138622485611	21017AP	06/27/2021 20:02:00	20:03:59	0.013	0.029	13	1.9
PRS138622485611	21017OB	06/27/2021 20:12:28	20:14:27	0.010	0.022	13	1.6
PRS138622485611	21017OB	06/27/2021 20:14:55	20:16:55	0.012	0.024	14	1.5
PRS138622485611	21017NU	06/27/2021 20:29:37	20:31:36	0.012	0.021	15	1.4
PRS138622485611	21017NU	06/27/2021 20:32:04	20:34:03	0.012	0.018	15	1.4
PRS138622485611	21017AK	06/27/2021 20:39:13	20:41:12	0.012	0.018	16	1.3
PRS138622485611	21017AK	06/27/2021 20:42:30	20:44:29	0.013	0.017	16	1.3
PRS138622485611	21017NZ	06/27/2021 20:53:20	20:55:19	0.012	0.013	16	1.3
PRS138622485611	21017NZ	06/27/2021 20:56:31	20:58:30	0.012	0.014	16	1.3
PRS138622485611	21017FA	06/27/2021 21:06:37	21:08:37	0.010	0.010	16	1.2
PRS138622485611	21017FA	06/27/2021 21:09:09	21:11:08	0.011	0.011	16	1.1
PRS138622485611	21017EU	06/27/2021 21:23:42	21:25:41	0.010	0.011	14	1.6
PRS138622485611	21017EU	06/27/2021 21:26:19	21:28:18	0.010	0.012	14	1.6
PRS138622485611	21017NV	06/27/2021 21:36:02	21:38:01	0.010	0.016	14	1.6
PRS138622485611	21017NV	06/27/2021 21:39:07	21:41:06	0.009	0.015	14	1.6
PRS362080334314	21017HD	06/27/2021 22:10:35	22:12:35	0.011	0.018	15	1.6
PRS362080334314	21017HD	06/27/2021 22:13:03	22:15:02	0.012	0.019	15	1.6
PRS362080334314	21017PE	06/27/2021 22:30:58	22:32:57	0.015	0.020	15	1.5
PRS362080334314	21017PE	06/27/2021 22:33:46	22:35:45	0.014	0.022	15	1.5
PRS437922444658	21017PH	06/27/2021 22:46:27	22:48:26	0.014	0.022	15	1.3
PRS437922444658	21017PH	06/27/2021 22:48:56	22:50:56	0.014	0.024	15	1.3
PRS437922444658	21017BP	06/27/2021 22:56:24	22:58:56	0.017	0.034	14	1.5
PRS437922444658	21017BP	06/27/2021 22:59:39	23:02:55	0.016	0.032	14	1.5
PRS437922444658	21017PU	06/27/2021 23:12:49	23:14:49	0.015	0.019	15	1.3
PRS437922444658	21017PU	06/27/2021 23:15:29	23:17:28	0.013	0.020	15	1.3
PRS437922444658	21017PU	06/27/2021 23:17:51	23:19:50	0.013	0.019	14	1.4
PRS437922444658	21017OZ	06/27/2021 23:37:47	23:39:47	0.023	0.025	13	1.4
PRS437922444658	21017OZ	06/27/2021 23:40:26	23:42:25	0.016	0.020	14	1.4
PRS362080334314	21017HY	06/28/2021 11:58:51	12:00:50	0.012	0.017	16	1.3
PRS362080334314	21017HY	06/28/2021 12:02:05	12:04:04	0.014	0.019	16	1.3
PRS362080334314	21017BU	06/28/2021 12:14:35	12:16:34	0.011	0.018	13	1.7
PRS362080334314	21017BU	06/28/2021 12:16:57	12:18:56	0.013	0.020	14	1.6
PRS362080334314	21017IS	06/28/2021 12:27:08	12:29:08	0.012	0.013	14	1.5
PRS362080334314	21017IS	06/28/2021 12:29:29	12:31:28	0.010	0.014	14	1.5

GPS BASE	GPSID	UTC Start	UTC End	Horz Prec	Vert Prec	# of SV's	PDOP
PRS362080334314	21017QJ	06/28/2021 12:46:19	12:48:23	0.010	0.015	15	1.6
PRS362080334314	21017QJ	06/28/2021 12:50:38	12:52:37	0.008	0.012	16	1.3
PRS362080334314	21017IJ	06/28/2021 13:01:48	13:03:47	0.011	0.016	16	1.3
PRS362080334314	21017IJ	06/28/2021 13:04:12	13:06:12	0.012	0.017	16	1.3
PRS362080334314	21017IN	06/28/2021 13:15:18	13:17:17	0.012	0.019	15	1.4
PRS362080334314	21017IN	06/28/2021 13:17:43	13:19:42	0.012	0.018	15	1.4
PRS362080334314	21017CH	06/28/2021 13:30:44	13:32:43	0.013	0.020	14	1.5
PRS362080334314	21017CH	06/28/2021 13:33:04	13:35:03	0.015	0.025	13	1.6
PRS437922444658	21017JN	06/28/2021 13:44:06	13:46:09	0.012	0.019	15	1.3
PRS437922444658	21017JN	06/28/2021 13:47:16	13:49:15	0.013	0.019	14	1.4
PRS437922444658	21017JA	06/28/2021 14:03:39	14:05:38	0.012	0.016	14	1.4
PRS437922444658	21017JA	06/28/2021 14:06:00	14:07:59	0.014	0.018	14	1.3
PRS437922444658	21017KA	06/28/2021 14:19:32	14:21:31	0.016	0.017	14	1.4
PRS437922444658	21017KA	06/28/2021 14:21:57	14:23:57	0.016	0.016	14	1.4
PRS36921347831	21017CT	06/28/2021 14:35:40	14:37:40	0.017	0.018	15	1.2
PRS36921347831	21017CT	06/28/2021 14:38:08	14:40:07	0.016	0.018	15	1.2
PRS36921347831	21017RD	06/28/2021 14:47:11	14:49:10	0.016	0.021	15	1.2
PRS36921347831	21017RD	06/28/2021 14:50:08	14:52:07	0.016	0.022	15	1.2
PRS437922444658	21017KG	06/28/2021 15:00:50	15:02:51	0.017	0.020	13	1.4
PRS437922444658	21017KG	06/28/2021 15:03:41	15:05:41	0.014	0.018	13	1.4
PRS36921347831	21017LK	06/28/2021 15:26:26	15:28:25	0.015	0.020	13	1.3
PRS36921347831	21017LK	06/28/2021 15:29:19	15:31:18	0.015	0.018	14	1.2
PRS36921347831	21017WH	06/28/2021 15:46:18	15:48:17	0.017	0.024	12	1.5
PRS36921347831	21017WH	06/28/2021 15:49:38	15:51:37	0.016	0.021	12	1.5
PRS36921347831	21017WH	06/28/2021 15:52:31	15:54:32	0.013	0.018	12	1.5
21017WH	21017TP	06/28/2021 15:59:12	16:02:13	0.008	0.012	20	1.3
21017WH	21017TP	06/28/2021 16:02:38	16:05:38	0.008	0.012	19	1.4
PRS36921347831	21017WI	06/28/2021 16:15:59	16:18:00	0.016	0.024	13	1.5
PRS36921347831	21017WI	06/28/2021 16:19:15	16:21:14	0.015	0.022	13	1.5
21017WI	21017TR	06/28/2021 16:29:41	16:32:40	0.007	0.009	20	1.3
21017WI	21017TR	06/28/2021 16:33:11	16:35:22	0.007	0.009	20	1.3
PRS36921347831	21017SD	06/28/2021 16:59:28	17:01:27	0.014	0.018	14	1.4
PRS36921347831	21017SD	06/28/2021 17:01:56	17:03:55	0.015	0.019	13	1.6
PRS362080334314	21017LE	06/28/2021 17:21:23	17:23:22	0.018	0.021	15	1.3
PRS362080334314	21017LE	06/28/2021 17:24:13	17:26:13	0.019	0.026	15	1.3
PRS362080334314	21017KZ	06/28/2021 17:33:24	17:35:24	0.019	0.021	15	1.3
PRS362080334314	21017KZ	06/28/2021 17:38:32	17:40:32	0.017	0.021	16	1.2
PRS362080334314	21017CV	06/28/2021 17:49:21	17:51:20	0.015	0.023	16	1.2
PRS362080334314	21017CV	06/28/2021 17:52:12	17:54:12	0.015	0.023	17	1.2
PRS362080334314	21017RY	06/28/2021 18:06:55	18:08:54	0.017	0.026	15	1.5
PRS362080334314	21017RY	06/28/2021 18:09:47	18:11:47	0.019	0.026	15	1.6
PRS362080334314	21017QY	06/28/2021 18:27:17	18:29:16	0.014	0.022	14	1.8
PRS362080334314	21017QY	06/28/2021 18:29:41	18:31:41	0.012	0.020	14	1.9
PRS362080334314	21017JV	06/28/2021 18:38:28	18:40:27	0.013	0.026	14	1.9
PRS362080334314	21017JV	06/28/2021 18:41:05	18:43:04	0.012	0.025	14	1.9
PRS362080334314	21017KL	06/28/2021 19:03:30	19:05:30	0.008	0.015	17	1.2
PRS362080334314	21017KL	06/28/2021 19:06:15	19:08:16	0.009	0.018	17	1.2
PRS362080334314	21017KL	06/28/2021 19:08:57	19:10:57	0.011	0.025	16	1.3
PRS362080334314	21017KN	06/28/2021 19:18:57	19:20:58	0.012	0.029	16	1.4
PRS362080334314	21017KN	06/28/2021 19:21:19	19:23:39	0.021	0.037	16	1.3
PRS362080334314	21017RA	06/28/2021 19:35:21	19:37:20	0.007	0.014	14	1.7
PRS362080334314	21017RA	06/28/2021 19:38:07	19:40:07	0.009	0.019	15	1.6
PRS362080334314	21017JR	06/28/2021 19:49:22	19:51:24	0.011	0.021	13	1.8
PRS362080334314	21017JR	06/28/2021 19:51:49	19:53:48	0.011	0.027	14	1.8
PRS362080334314	21017JR	06/28/2021 19:55:35	19:57:37	0.010	0.017	14	1.7
PRS362080334314	21017CI	06/28/2021 20:08:12	20:10:12	0.008	0.013	13	2.0
PRS362080334314	21017CI	06/28/2021 20:10:44	20:12:43	0.009	0.014	12	2.1
PRS362080334314	21017RG	06/28/2021 20:39:25	20:41:24	0.010	0.013	13	1.6
PRS362080334314	21017RG	06/28/2021 20:41:50	20:43:51	0.011	0.012	16	1.4
PRS362080334314	21017KU	06/28/2021 20:50:22	20:52:23	0.016	0.022	15	1.4
PRS362080334314	21017KU	06/28/2021 20:53:14	20:55:13	0.013	0.018	16	1.3
PRS362080334314	21017RI	06/28/2021 21:11:30	21:13:30	0.011	0.012	15	1.2
PRS362080334314	21017RI	06/28/2021 21:14:07	21:16:06	0.010	0.012	15	1.2
PRS362080334314	21017CX	06/28/2021 21:30:33	21:32:32	0.011	0.015	14	1.6

GPS BASE	GPSID	UTC Start	UTC End	Horz Prec	Vert Prec	# of SV's	PDOP
PRS362080334314	21017CX	06/28/2021 21:33:40	21:35:40	0.011	0.016	15	1.4
PRS362080334314	21017RV	06/28/2021 21:47:29	21:49:29	0.010	0.016	15	1.3
PRS362080334314	21017RV	06/28/2021 21:50:04	21:52:03	0.010	0.016	15	1.3
PRS362080334314	21017RU	06/28/2021 22:01:12	22:03:11	0.010	0.020	15	1.6
PRS362080334314	21017RU	06/28/2021 22:04:29	22:06:28	0.011	0.021	15	1.6
PRS362080334314	21017LS	06/28/2021 22:31:54	22:33:53	0.012	0.021	14	1.6
PRS362080334314	21017LS	06/28/2021 22:34:21	22:36:20	0.012	0.023	15	1.4
PRS362080334314	21017DE	06/28/2021 22:43:45	22:45:44	0.013	0.024	15	1.3
PRS362080334314	21017DE	06/28/2021 22:48:53	22:50:53	0.009	0.018	15	1.3
PRS362080334314	21017SI	06/28/2021 22:58:53	23:00:52	0.013	0.024	15	1.2
PRS362080334314	21017SI	06/28/2021 23:01:40	23:03:39	0.013	0.025	15	1.2
PRS40143348903	21017LX	06/28/2021 23:11:06	23:13:05	0.015	0.019	15	1.3
PRS40143348903	21017LX	06/28/2021 23:14:01	23:16:00	0.014	0.018	13	1.5
PRS40143348903	21017MH	06/28/2021 23:27:12	23:29:12	0.015	0.019	13	1.5
PRS40143348903	21017MH	06/28/2021 23:32:05	23:34:06	0.011	0.014	14	1.3
PRS40143348903	21017SN	06/28/2021 23:45:14	23:47:13	0.012	0.013	14	1.3
PRS40143348903	21017SN	06/28/2021 23:47:49	23:49:50	0.013	0.013	14	1.3
PRS40143348903	21017SW	06/29/2021 00:08:55	00:10:54	0.007	0.008	13	1.3
PRS40143348903	21017SW	06/29/2021 00:13:12	00:15:11	0.006	0.008	13	1.3
PRS40143348903	21017LW	06/29/2021 12:56:24	12:58:23	0.011	0.015	14	1.5
PRS40143348903	21017LW	06/29/2021 12:58:59	13:00:58	0.011	0.016	13	1.5
PRS40143348903	21017RX	06/29/2021 13:12:39	13:14:38	0.012	0.016	15	1.3
PRS40143348903	21017RX	06/29/2021 13:15:03	13:17:03	0.013	0.019	14	1.3
PRS40143348903	21017CU	06/29/2021 13:26:24	13:28:25	0.016	0.024	13	1.6
PRS40143348903	21017CU	06/29/2021 13:28:55	13:30:54	0.014	0.018	13	1.6
PRS40143348903	21017KS	06/29/2021 13:40:12	13:42:11	0.015	0.021	11	2.1
PRS40143348903	21017KS	06/29/2021 13:42:29	13:44:30	0.016	0.021	12	1.8
PRS40143348903	21017KW	06/29/2021 13:52:19	13:54:18	0.016	0.022	14	1.3
PRS40143348903	21017KW	06/29/2021 13:54:47	13:56:47	0.017	0.023	14	1.3
PRS40143348903	21017RS	06/29/2021 14:05:10	14:07:09	0.013	0.016	14	1.3
PRS40143348903	21017RS	06/29/2021 14:07:44	14:09:45	0.013	0.016	13	1.5
PRS480651133147	21017KV	06/29/2021 14:24:02	14:26:02	0.013	0.014	13	1.4
PRS480651133147	21017KV	06/29/2021 14:26:34	14:28:33	0.012	0.014	15	1.2
PRS480651133147	21017RJ	06/29/2021 14:35:33	14:37:33	0.012	0.014	15	1.2
PRS480651133147	21017RJ	06/29/2021 14:38:30	14:40:29	0.010	0.012	15	1.2
PRS480651133147	21017KM	06/29/2021 14:50:33	14:52:32	0.010	0.012	16	1.2
PRS480651133147	21017KM	06/29/2021 14:54:12	14:56:12	0.011	0.013	14	1.4
PRS480651133147	21017CP	06/29/2021 15:05:27	15:07:27	0.011	0.014	13	1.6
PRS480651133147	21017CP	06/29/2021 15:08:03	15:10:02	0.011	0.013	13	1.6
PRS480651133147	21017RO	06/29/2021 15:20:22	15:22:21	0.012	0.015	14	1.3
PRS480651133147	21017RO	06/29/2021 15:23:05	15:25:04	0.012	0.016	14	1.3
PRS480651133147	21017LN	06/29/2021 15:34:11	15:36:10	0.011	0.014	15	1.2
PRS480651133147	21017LN	06/29/2021 15:36:56	15:38:55	0.011	0.013	15	1.2
PRS480651133147	21017SE	06/29/2021 15:50:18	15:52:17	0.011	0.013	14	1.4
PRS480651133147	21017SE	06/29/2021 15:52:38	15:54:39	0.013	0.016	15	1.3
PRS480651133147	21017LR	06/29/2021 16:09:12	16:11:11	0.008	0.010	14	1.5
PRS480651133147	21017LR	06/29/2021 16:11:33	16:13:34	0.007	0.010	14	1.5
PRS480651133147	21017SG	06/29/2021 16:24:01	16:26:01	0.006	0.009	15	1.4
PRS480651133147	21017SG	06/29/2021 16:26:22	16:28:21	0.007	0.010	15	1.4
PRS480651133147	21017LO	06/29/2021 16:44:12	16:46:11	0.006	0.009	15	1.3
PRS480651133147	21017LO	06/29/2021 16:46:47	16:48:47	0.006	0.009	15	1.3
PRS480651133147	21017CW	06/29/2021 17:06:17	17:08:16	0.007	0.012	13	1.5
PRS480651133147	21017CW	06/29/2021 17:08:35	17:10:34	0.008	0.012	12	1.7
PRS480651133147	21017RK	06/29/2021 17:24:37	17:26:36	0.009	0.010	14	1.4
PRS480651133147	21017RK	06/29/2021 17:27:10	17:29:09	0.011	0.012	14	1.3
PRS480651133147	21017SJ	06/29/2021 17:59:26	18:01:25	0.013	0.019	14	1.7
PRS480651133147	21017SJ	06/29/2021 18:01:54	18:03:53	0.011	0.017	14	1.7
PRS480651133147	21017SL	06/29/2021 18:12:03	18:14:03	0.013	0.022	14	1.9
PRS480651133147	21017SL	06/29/2021 18:14:39	18:16:38	0.012	0.020	13	1.9
PRS480651133147	21017SK	06/29/2021 18:25:34	18:27:33	0.010	0.017	13	2.1
PRS480651133147	21017SK	06/29/2021 18:28:07	18:30:06	0.011	0.018	13	2.1
PRS480651133147	21017SQ	06/29/2021 18:36:54	18:38:54	0.010	0.018	14	1.5
PRS480651133147	21017SQ	06/29/2021 18:40:14	18:42:13	0.010	0.019	14	1.5
PRS480651133147	21017DP	06/29/2021 18:57:10	18:59:09	0.009	0.017	17	1.3

GPS BASE	GPSID	UTC Start	UTC End	Horz Prec	Vert Prec	# of SV's	PDOP
PRS480651133147	21017DP	06/29/2021 18:59:48	19:01:47	0.010	0.016	17	1.3
PRS480651133147	21017MM	06/29/2021 19:10:23	19:12:23	0.010	0.020	15	1.4
PRS480651133147	21017MM	06/29/2021 19:12:54	19:14:53	0.009	0.017	15	1.4
PRS480651133147	21017MF	06/29/2021 19:25:28	19:27:30	0.008	0.015	15	1.4
PRS480651133147	21017MF	06/29/2021 19:28:02	19:30:02	0.008	0.016	14	1.7
PRS480651133147	21017MC	06/29/2021 19:38:25	19:40:25	0.009	0.018	14	1.7
PRS480651133147	21017MC	06/29/2021 19:41:13	19:43:13	0.010	0.018	14	1.7
PRS40143348903	21017SV	06/29/2021 19:54:03	19:56:03	0.010	0.019	13	1.7
PRS40143348903	21017SV	06/29/2021 19:57:00	19:58:59	0.010	0.019	13	1.6
PRS480651133147	21017DI	06/29/2021 20:14:52	20:16:51	0.012	0.019	14	1.6
PRS480651133147	21017DI	06/29/2021 20:17:26	20:19:29	0.013	0.017	15	1.4
PRS40143348903	21017SR	06/29/2021 20:31:11	20:33:11	0.012	0.017	14	1.5
PRS40143348903	21017SR	06/29/2021 20:33:35	20:35:34	0.012	0.016	15	1.4
PRS40143348903	21017MD	06/29/2021 20:49:12	20:51:12	0.012	0.013	15	1.4
PRS40143348903	21017MD	06/29/2021 20:51:41	20:53:40	0.012	0.013	14	1.4

As mentioned, each station was occupied twice (at least) in succession. The Earth Centered Earth Fixed (ECEF) vector differences were rotated into a local horizon system (N, E, Up) for analysis, as summarized in table 4. Stations which had observations that differed by more than 0.03 m in the vertical component were re-observed until agreement was achieved. Repeat baselines with one of the vectors rejected are denoted in ~~red strikethrough~~.

Table 4 - Repeat Baseline Analysis (meters)

To	Delta North	Delta East	Delta Horiz	Delta Up	Length
21017AA	0.015	-0.008	0.017	-0.019	27282
21017AB	0.006	-0.004	0.007	0.008	16757
21017AB	0.002	-0.004	0.005	0.014	16757
21017AB	-0.004	0.000	0.004	0.005	16757
21017AC	0.011	0.011	0.016	-0.001	28655
21017AD	-0.004	0.004	0.006	0.000	17727
21017AE	0.004	-0.005	0.006	0.000	23926
21017AF	0.013	0.000	0.013	-0.003	23830
21017AG	0.009	-0.006	0.011	-0.009	22888
21017AH	-0.002	-0.002	0.003	-0.002	36199
21017AI	0.004	0.000	0.004	0.001	26628
21017AJ	0.004	0.004	0.006	0.011	7449
21017AK	0.003	0.000	0.003	0.008	16680
21017AL	0.009	0.011	0.014	0.002	23234
21017AM	0.004	0.000	0.004	-0.013	27251
21017AN	-0.001	0.006	0.006	0.005	23046
21017AO	-0.019	0.003	0.019	0.014	21306
21017AP	0.003	0.001	0.004	-0.002	22009
21017AQ	-0.014	0.002	0.014	-0.009	26323
21017AR	0.000	0.001	0.001	0.007	9590
21017AS	0.006	0.005	0.008	-0.008	12193
21017AT	-0.005	-0.001	0.005	0.005	18729
21017AU	-0.010	0.001	0.010	-0.001	12844
21017AV	-0.004	0.004	0.005	-0.006	32773
21017AW	0.000	-0.004	0.004	0.000	15323
21017AX	-0.003	0.006	0.007	-0.005	6062
21017AY	-0.005	0.007	0.009	0.014	21635
21017AZ	0.007	0.004	0.008	-0.017	18238
21017BA	-0.001	0.006	0.006	0.003	32957

To	Delta North	Delta East	Delta Horiz	Delta Up	Length
21017BB	0.005	0.000	0.005	-0.004	10863
21017BC	-0.001	0.006	0.007	0.030	29807
21017BD	-0.005	0.004	0.007	0.016	22335
21017BE	-0.007	-0.006	0.009	0.010	23852
21017BF	-0.001	0.001	0.001	0.003	17088
21017BG	0.006	0.005	0.008	0.006	19444
21017BH	0.002	-0.002	0.003	0.003	25863
21017BI	-0.002	-0.005	0.005	0.007	6386
21017BJ	0.009	0.009	0.013	0.007	29735
21017BK	0.003	0.008	0.008	-0.008	19671
21017BM	-0.001	-0.002	0.002	-0.003	7800
21017BN	0.005	0.000	0.005	0.007	20374
21017BO	0.001	0.002	0.002	-0.006	15559
21017BP	0.008	-0.011	0.014	0.009	27716
21017BQ	0.002	0.005	0.005	0.022	24603
21017BR	-0.001	-0.003	0.003	0.000	14334
21017BS	0.010	0.003	0.010	0.003	18160
21017BT	-0.004	-0.006	0.007	-0.002	28693
21017BU	0.008	0.001	0.008	0.004	20292
21017BV	-0.003	0.004	0.005	0.000	11467
21017BW	-0.003	0.003	0.004	-0.008	25946
21017BX	0.012	-0.006	0.014	-0.029	9892
21017BY	0.005	-0.008	0.009	-0.008	38789
21017BZ	-0.004	0.001	0.004	-0.004	10583
21017CA	0.006	-0.001	0.006	0.002	12904
21017CB	-0.004	0.001	0.005	-0.003	17404
21017CC	-0.034	-0.009	0.035	-0.029	13868
21017CD	0.000	-0.003	0.003	-0.014	21823
21017CE	0.003	0.003	0.004	-0.006	23343
21017CF	-0.003	0.007	0.008	0.023	20256
21017CG	0.005	-0.002	0.005	0.007	15675
21017CH	-0.005	-0.001	0.005	0.006	27217
21017CI	0.003	-0.004	0.005	0.017	4838
21017CJ	0.002	-0.002	0.002	0.010	13312
21017CK	-0.003	0.000	0.003	0.004	2294
21017CL	0.004	-0.002	0.005	0.007	21156
21017CM	-0.007	0.007	0.010	0.004	15991
21017CN	0.002	-0.001	0.002	0.002	11477
21017CO	-0.001	-0.003	0.003	0.002	21490
21017CO	0.002	-0.003	0.004	0.009	21490
21017CO	0.002	0.000	0.002	0.007	21490
21017CP	0.007	0.001	0.007	-0.008	17319
21017CQ	0.007	-0.006	0.009	-0.007	24054
21017CR	0.010	-0.007	0.012	0.000	28236
21017CS	-0.006	0.003	0.007	-0.010	27644
21017CT	-0.001	0.004	0.004	0.010	26500
21017CU	-0.002	0.000	0.002	-0.009	25536
21017CV	-0.012	-0.004	0.013	-0.022	29281
21017CW	-0.004	0.000	0.004	-0.008	4434
21017CX	0.000	-0.013	0.013	-0.003	17995
21017CY	-0.008	-0.005	0.009	-0.011	18859
21017CZ	-0.005	0.000	0.005	0.012	15323
21017DA	0.006	-0.002	0.006	0.000	34871
21017DB	-0.004	-0.001	0.004	0.002	19323

To	Delta North	Delta East	Delta Horiz	Delta Up	Length
21017DC	0.007	-0.003	0.007	0.010	21357
21017DD	-0.005	0.010	0.011	-0.021	13314
21017DE	-0.007	0.003	0.008	-0.015	29028
21017DF	-0.001	-0.009	0.009	0.008	10979
21017DG	0.009	0.003	0.009	0.027	21223
21017DH	-0.006	-0.007	0.009	0.009	30114
21017DI	0.004	0.000	0.004	0.021	17735
21017DJ	-0.006	-0.022	0.023	-0.043	13004
21017DJ	0.029	-0.024	0.038	-0.005	13004
21017DJ	0.035	-0.002	0.035	0.037	13004
21017DK	-0.010	0.001	0.010	0.008	33542
21017DL	-0.002	-0.002	0.003	-0.009	28729
21017DM	0.001	0.002	0.002	0.010	26500
21017DN	-0.007	-0.003	0.007	0.005	26556
21017DO	0.006	-0.001	0.007	0.009	13615
21017DP	0.007	-0.003	0.008	-0.012	16938
21017DQ	0.001	0.003	0.003	-0.006	29370
21017DR	0.004	0.001	0.004	0.003	13413
21017DS	0.005	-0.008	0.009	-0.016	28446
21017DT	-0.002	0.006	0.007	0.004	19733
21017DU	-0.005	-0.001	0.005	0.006	3976
21017DV	0.000	0.007	0.007	0.021	29303
21017DW	-0.008	0.003	0.009	-0.017	30689
21017DX	0.009	-0.007	0.012	-0.005	17421
21017DY	0.003	-0.004	0.005	0.001	22656
21017DZ	0.002	0.001	0.002	0.029	26857
21017EA	0.007	-0.002	0.007	-0.013	13601
21017EB	-0.009	0.016	0.018	0.010	18857
21017EC	-0.002	-0.013	0.013	0.011	23057
21017ED	-0.005	0.005	0.007	-0.016	33388
21017EE	-0.019	-0.013	0.023	0.038	26028
21017EE	-0.035	0.034	0.049	0.033	26028
21017EE	-0.020	0.003	0.020	-0.062	26028
21017EE	-0.016	0.047	0.050	-0.005	26028
21017EE	-0.001	0.016	0.016	-0.099	26028
21017EE	0.015	-0.031	0.035	-0.095	26028
21017EF	0.000	0.002	0.002	-0.006	18392
21017EG	0.003	-0.008	0.008	0.009	7563
21017EH	0.004	-0.010	0.011	0.023	16595
21017EI	0.013	-0.002	0.013	0.007	22147
21017EJ	0.006	0.000	0.006	0.046	24301
21017EJ	0.011	0.002	0.011	0.049	24301
21017EJ	0.006	0.002	0.006	0.003	24301
21017EK	-0.006	-0.001	0.006	0.019	32349
21017EL	0.000	-0.001	0.001	-0.010	18980
21017EM	-0.001	-0.002	0.002	-0.021	15949
21017EN	0.009	-0.006	0.011	0.010	25311
21017EO	0.008	-0.001	0.008	-0.015	25112
21017EP	0.000	-0.001	0.001	-0.002	16145
21017EQ	-0.001	0.000	0.001	-0.004	29434
21017ER	0.004	-0.007	0.008	-0.002	18473
21017ES	0.010	0.002	0.010	0.005	10629
21017ET	0.001	0.004	0.004	0.009	6419
21017EU	0.000	-0.003	0.003	-0.004	8880

To	Delta North	Delta East	Delta Horiz	Delta Up	Length
21017EV	0.012	-0.004	0.013	0.008	18845
21017EW	0.002	-0.010	0.010	-0.003	23985
21017EX	0.006	0.003	0.007	0.021	7385
21017EY	-0.009	0.002	0.009	0.019	28661
21017EZ	0.002	0.008	0.008	0.024	31833
21017FA	-0.005	0.006	0.008	0.002	13655
21017FB	0.000	-0.006	0.006	-0.003	15580
21017FC	0.003	0.002	0.003	-0.001	20096
21017FD	0.001	-0.012	0.012	-0.011	30327
21017FE	0.005	-0.002	0.005	0.001	17107
21017FF	-0.004	-0.003	0.005	-0.006	13559
21017FG	-0.001	0.008	0.008	-0.009	30412
21017FH	-0.003	-0.006	0.007	-0.003	23538
21017FI	-0.005	-0.008	0.009	0.000	18540
21017FJ	0.008	-0.001	0.008	-0.005	14475
21017FK	0.004	0.002	0.005	0.002	23770
21017FL	0.005	0.001	0.005	-0.012	11978
21017FM	-0.004	0.003	0.005	0.001	14662
21017FN	-0.011	-0.002	0.011	-0.007	21096
21017FO	0.002	-0.001	0.003	0.008	8561
21017FP	0.003	-0.004	0.005	-0.001	9901
21017FQ	-0.003	-0.008	0.008	0.000	22880
21017FR	0.008	-0.003	0.008	0.004	15474
21017FS	-0.016	0.001	0.016	-0.006	31599
21017FT	0.003	-0.003	0.005	0.008	11631
21017FU	-0.002	-0.003	0.003	-0.008	16754
21017FV	0.005	-0.006	0.008	-0.005	29721
21017FW	0.002	-0.001	0.002	0.004	27949
21017FX	0.002	0.004	0.004	-0.002	6819
21017FY	-0.006	0.000	0.006	0.001	19056
21017FZ	-0.005	0.002	0.006	0.007	20646
21017GA	0.000	0.004	0.004	0.008	15884
21017GB	-0.003	0.001	0.003	0.002	17131
21017GC	-0.002	-0.001	0.002	0.001	20741
21017GD	0.008	0.004	0.009	-0.011	19234
21017GE	-0.001	-0.005	0.006	0.014	24525
21017GF	0.001	-0.002	0.003	-0.003	19655
21017GG	0.008	0.001	0.008	0.014	32805
21017GH	-0.002	0.005	0.006	-0.014	21820
21017GI	-0.007	0.008	0.011	-0.008	20138
21017GJ	-0.001	-0.002	0.003	0.006	8927
21017GK	-0.003	-0.005	0.005	-0.001	22468
21017GL	-0.015	0.001	0.015	-0.031	29420
21017GM	0.004	0.001	0.004	-0.002	2967
21017GN	0.003	0.002	0.004	-0.010	12800
21017GO	0.006	-0.002	0.006	0.000	34206
21017GP	-0.004	0.000	0.004	-0.001	25805
21017GQ	0.003	-0.002	0.003	-0.006	23287
21017GR	0.000	0.001	0.001	-0.005	11565
21017GS	0.009	-0.002	0.009	-0.004	12220
21017GT	-0.002	-0.003	0.003	0.013	23047
21017GU	0.009	-0.004	0.009	-0.009	10257
21017GV	-0.005	0.003	0.006	-0.010	26618
21017GW	-0.002	-0.002	0.002	0.000	23571

To	Delta North	Delta East	Delta Horiz	Delta Up	Length
21017GX	0.008	-0.005	0.010	0.000	11052
21017GY	0.002	0.006	0.007	0.000	21935
21017GZ	0.005	0.002	0.006	-0.014	13471
21017HA	0.001	0.000	0.001	-0.008	15892
21017HB	0.002	0.001	0.002	-0.003	4873
21017HC	0.009	0.003	0.010	-0.013	7002
21017HD	0.007	0.003	0.008	0.000	27398
21017HE	0.004	-0.006	0.008	0.001	11248
21017HF	-0.001	-0.003	0.003	0.006	24289
21017HG	-0.002	0.000	0.002	-0.004	30307
21017HH	-0.002	0.002	0.003	0.005	14962
21017HI	0.001	-0.006	0.006	0.001	19777
21017HJ	0.000	0.000	0.000	0.003	18146
21017HK	0.002	0.000	0.002	-0.010	10135
21017HL	0.004	0.000	0.004	-0.004	15285
21017HM	0.003	0.001	0.003	-0.007	22844
21017HN	-0.002	0.003	0.004	0.008	9390
21017HO	0.011	0.009	0.014	-0.015	10334
21017HP	-0.001	-0.002	0.002	0.007	3398
21017HQ	0.004	-0.008	0.009	0.031	24843
21017HQ	0.010	-0.015	0.019	-0.003	24843
21017HQ	0.006	-0.008	0.010	-0.034	24843
21017HR	-0.015	-0.007	0.016	-0.001	29523
21017HS	-0.007	0.007	0.010	-0.009	7720
21017HT	0.002	-0.001	0.003	-0.021	32936
21017HU	0.002	0.002	0.003	0.005	17661
21017HV	0.003	-0.005	0.006	0.023	34075
21017HW	0.003	0.003	0.004	0.008	19196
21017HX	0.005	0.002	0.005	0.009	16878
21017HY	0.003	-0.001	0.003	0.007	22715
21017HZ	0.008	0.001	0.008	0.002	20099
21017IA	0.003	0.004	0.005	-0.008	21155
21017IB	-0.002	-0.002	0.003	-0.001	2370
21017IC	0.002	0.000	0.002	-0.003	17442
21017IC	0.012	0.006	0.014	0.007	17442
21017IC	0.010	0.006	0.012	0.010	17442
21017ID	-0.003	0.001	0.003	0.004	12781
21017IE	0.002	0.005	0.006	0.008	39512
21017IF	-0.005	0.004	0.006	0.000	12044
21017IG	-0.001	-0.007	0.007	0.003	15487
21017IH	-0.016	0.005	0.016	0.004	17668
21017II	-0.008	-0.006	0.010	0.001	44664
21017IJ	-0.001	-0.001	0.002	-0.003	24572
21017IK	-0.015	-0.001	0.015	-0.005	36769
21017IL	-0.004	0.003	0.005	0.007	17537
21017IM	0.005	-0.004	0.006	-0.003	11028
21017IN	0.002	-0.002	0.003	0.004	28081
21017IO	-0.005	0.005	0.007	-0.010	7392
21017IP	0.019	-0.002	0.019	-0.019	16529
21017IQ	0.000	0.001	0.001	-0.003	9210
21017IR	0.007	-0.004	0.008	0.008	19130
21017IS	-0.007	0.000	0.007	0.006	16973
21017IT	-0.004	-0.001	0.004	0.008	14470
21017IU	0.001	0.001	0.001	-0.002	14146

To	Delta North	Delta East	Delta Horiz	Delta Up	Length
21017IV	0.001	-0.006	0.006	-0.002	6223
21017IW	-0.001	0.003	0.004	-0.001	28589
21017IX	0.013	0.004	0.013	0.020	12925
21017IY	-0.003	-0.005	0.006	-0.004	17112
21017IZ	-0.011	-0.007	0.012	0.010	21099
21017JA	-0.003	-0.001	0.003	0.001	17913
21017JB	0.006	0.000	0.006	-0.002	23754
21017JC	-0.007	-0.002	0.007	-0.008	32137
21017JD	-0.006	-0.005	0.008	-0.004	24230
21017JE	0.016	-0.006	0.017	-0.017	40330
21017JF	0.007	0.001	0.007	-0.002	14567
21017JG	0.007	0.001	0.007	0.000	6574
21017JH	-0.006	0.000	0.006	0.008	16981
21017JI	-0.008	-0.003	0.008	0.025	13198
21017JJ	-0.006	0.001	0.006	-0.001	17826
21017JK	0.389	0.009	0.389	-0.004	26706
21017JK	0.381	0.012	0.381	-0.020	26706
21017JK	-0.008	0.003	0.009	-0.016	26706
21017JL	0.005	0.006	0.008	-0.021	24284
21017JM	0.004	0.006	0.007	-0.006	14719
21017JN	0.001	0.001	0.001	-0.004	23438
21017JO	-0.004	-0.002	0.004	-0.021	11708
21017JP	0.000	0.001	0.001	0.006	25846
21017JQ	0.001	-0.015	0.015	0.001	27047
21017JR	-0.002	-0.021	0.021	0.060	11069
21017JR	0.004	-0.013	0.013	0.011	11069
21017JR	0.006	0.008	0.010	-0.049	11069
21017JS	-0.001	0.008	0.008	0.054	28024
21017JS	0.037	-0.013	0.039	-0.018	28024
21017JS	0.038	-0.021	0.043	-0.072	28024
21017JT	-0.012	-0.004	0.013	-0.008	29484
21017JU	0.006	0.004	0.007	-0.009	21346
21017JV	-0.012	0.000	0.012	0.019	20776
21017JW	0.002	0.002	0.003	-0.006	15325
21017JX	-0.005	0.003	0.006	-0.004	11398
21017JY	-0.001	0.008	0.008	-0.008	24310
21017JZ	-0.005	0.001	0.005	0.018	14366
21017KA	-0.004	0.003	0.005	-0.002	22979
21017KB	-0.007	0.007	0.010	0.004	18979
21017KC	-0.001	0.004	0.004	0.002	8943
21017KD	-0.012	0.003	0.012	-0.008	16152
21017KE	-0.003	0.002	0.004	0.008	8823
21017KF	0.001	0.002	0.002	0.005	30966
21017KG	-0.001	-0.005	0.005	0.014	23081
21017KH	-0.043	0.008	0.044	-0.015	16784
21017KI	-0.005	-0.010	0.011	-0.002	24622
21017KJ	0.003	-0.003	0.004	-0.007	13544
21017KK	-0.003	0.001	0.003	-0.014	16702
21017KL	0.002	-0.003	0.003	-0.035	16957
21017KL	0.010	-0.004	0.011	-0.037	16957
21017KL	0.009	-0.001	0.009	-0.002	16957
21017KM	0.005	0.009	0.011	0.009	23856
21017KN	0.002	-0.006	0.006	0.005	12583
21017KO	0.012	0.007	0.014	0.017	19942

To	Delta North	Delta East	Delta Horiz	Delta Up	Length
21017KP	0.009	-0.002	0.009	-0.003	17358
21017KQ	0.007	0.011	0.013	0.017	22055
21017KR	-0.005	0.001	0.005	0.000	18130
21017KS	-0.001	0.002	0.002	-0.003	31208
21017KT	-0.008	-0.009	0.012	0.018	15940
21017KU	0.001	0.011	0.011	0.008	10427
21017KV	0.003	0.004	0.005	0.003	29869
21017KW	-0.001	-0.007	0.007	0.012	30768
21017KX	0.008	0.011	0.013	-0.008	20714
21017KY	-0.004	0.002	0.005	0.001	28302
21017KZ	0.010	0.005	0.011	0.002	34350
21017LA	-0.010	0.005	0.011	0.026	17170
21017LB	-0.004	0.001	0.004	0.004	21669
21017LC	0.003	-0.007	0.007	-0.005	26056
21017LD	0.010	-0.009	0.014	-0.002	18726
21017LE	0.004	-0.003	0.005	0.007	33509
21017LF	-0.004	-0.001	0.004	-0.005	19467
21017LG	-0.005	0.004	0.007	0.011	27805
21017LH	-0.014	-0.004	0.015	0.007	20664
21017LI	-0.017	-0.004	0.017	0.010	21284
21017LJ	0.000	-0.003	0.003	0.000	22284
21017LK	0.009	0.007	0.012	0.005	22252
21017LL	0.001	0.001	0.001	0.009	13045
21017LM	-0.007	0.006	0.009	0.009	11940
21017LN	0.001	0.006	0.006	0.007	13879
21017LO	0.001	0.006	0.006	-0.007	2717
21017LP	0.002	0.004	0.004	-0.016	18187
21017LQ	0.006	0.000	0.006	-0.002	6830
21017LR	0.000	-0.001	0.001	0.004	5402
21017LS	0.008	-0.006	0.010	0.006	27310
21017LT	-0.012	-0.013	0.018	0.002	10152
21017LU	0.005	-0.005	0.007	0.004	8256
21017LV	-0.010	-0.004	0.011	0.004	9817
21017LW	-0.004	-0.001	0.004	0.010	14202
21017LX	0.013	-0.003	0.013	-0.017	20481
21017LY	0.004	0.003	0.005	-0.004	12440
21017LZ	-0.013	-0.007	0.015	-0.009	27791
21017MA	-0.003	0.007	0.007	-0.010	17021
21017MB	0.004	0.000	0.004	-0.001	3482
21017MC	-0.002	0.009	0.009	-0.015	16092
21017MD	0.001	0.001	0.001	0.000	10763
21017ME	-0.006	0.003	0.007	0.017	8102
21017MF	-0.002	-0.007	0.007	-0.011	11602
21017MG	0.009	0.006	0.011	-0.014	13940
21017MH	-0.003	0.005	0.005	0.019	16435
21017MI	0.004	-0.003	0.005	-0.004	17377
21017MJ	-0.005	0.000	0.005	0.003	12091
21017MK	-0.009	0.003	0.010	-0.009	16218
21017ML	-0.007	0.010	0.012	0.015	25864
21017MM	0.003	0.004	0.005	-0.019	17875
21017MN	0.004	-0.006	0.008	0.007	16009
21017MO	-0.005	0.011	0.012	-0.043	21306
21017MO	-0.004	0.010	0.011	-0.050	21306
21017MO	0.001	-0.001	0.001	-0.007	21306

To	Delta North	Delta East	Delta Horiz	Delta Up	Length
21017MP	-0.007	-0.002	0.007	0.019	14184
21017MQ	-0.004	0.006	0.007	-0.011	31975
21017MR	-0.003	0.004	0.005	0.004	14705
21017MS	0.000	-0.005	0.005	0.004	18601
21017MT	-0.003	-0.006	0.006	0.008	10632
21017MU	0.007	-0.004	0.008	-0.001	21314
21017MV	0.004	0.001	0.004	0.001	9694
21017MW	-0.003	0.013	0.013	0.004	28337
21017MX	0.004	0.000	0.004	0.000	27763
21017MY	-0.006	-0.003	0.007	-0.004	27646
21017MZ	0.011	0.017	0.020	0.024	25876
21017NA	-0.002	-0.005	0.005	-0.002	23228
21017NB	0.013	-0.001	0.013	-0.013	31836
21017NC	-0.003	0.003	0.004	-0.007	19557
21017ND	0.000	0.000	0.000	-0.014	16582
21017NE	0.006	-0.007	0.009	-0.036	25823
21017NE	0.002	-0.004	0.004	-0.044	25823
21017NE	-0.004	0.003	0.005	-0.008	25823
21017NF	0.001	0.008	0.008	0.026	18181
21017NG	0.001	0.006	0.007	-0.019	15568
21017NH	0.009	0.007	0.012	0.045	25097
21017NH	0.006	0.007	0.009	0.024	25097
21017NH	-0.004	-0.001	0.004	-0.021	25097
21017NI	-0.005	0.006	0.008	0.009	19097
21017NJ	0.013	-0.003	0.014	-0.018	18253
21017NK	0.015	0.011	0.018	-0.027	24655
21017NL	0.001	0.001	0.002	-0.001	21909
21017NM	-0.008	0.006	0.010	0.062	26498
21017NM	-0.023	0.007	0.024	0.080	26498
21017NM	-0.015	0.000	0.015	0.018	26498
21017NN	-0.018	-0.026	0.032	-0.032	25617
21017NN	-0.029	-0.030	0.041	-0.030	25617
21017NN	-0.011	-0.004	0.011	0.002	25618
21017NO	-0.010	0.012	0.015	-0.027	20298
21017NP	0.008	0.011	0.014	-0.003	28081
21017NQ	0.001	-0.005	0.005	0.022	22161
21017NR	-0.004	0.012	0.013	-0.015	20799
21017NS	0.013	-0.002	0.013	-0.009	23194
21017NT	-0.002	-0.011	0.011	0.004	17018
21017NU	0.004	0.003	0.005	0.011	19621
21017NV	-0.002	0.000	0.002	-0.009	8975
21017NW	0.003	0.001	0.003	0.013	23999
21017NX	-0.010	0.004	0.011	0.018	19804
21017NY	0.004	-0.002	0.004	0.005	21540
21017NZ	0.013	-0.005	0.014	-0.001	16569
21017OA	0.002	0.003	0.003	-0.003	15842
21017OB	0.002	-0.005	0.005	0.004	24314
21017OC	-0.004	-0.001	0.004	0.021	26087
21017OD	-0.001	0.005	0.005	-0.010	16314
21017OE	0.001	-0.004	0.004	0.002	16393
21017OF	0.000	-0.006	0.006	0.001	11199
21017OG	0.001	0.003	0.004	0.002	23007
21017OH	-0.004	-0.006	0.007	-0.004	13717
21017OI	-0.005	-0.002	0.005	-0.002	17826

To	Delta North	Delta East	Delta Horiz	Delta Up	Length
210170J	0.000	0.002	0.002	0.004	23254
210170K	-0.001	-0.004	0.004	0.020	26574
210170L	0.010	-0.001	0.010	0.001	19678
210170M	0.006	-0.003	0.007	0.001	22244
210170N	0.006	0.006	0.009	0.003	17712
210170O	-0.004	-0.004	0.005	-0.014	10365
210170P	-0.005	0.008	0.010	-0.010	32992
210170Q	-0.003	0.000	0.003	-0.009	28117
210170R	0.000	0.001	0.001	-0.006	20309
210170S	-0.004	0.003	0.005	0.006	19471
210170T	0.005	-0.004	0.007	0.006	11624
210170U	-0.011	-0.007	0.013	0.017	27436
210170V	0.000	-0.008	0.008	0.012	6720
210170W	0.001	-0.001	0.002	-0.002	24664
210170X	0.011	-0.011	0.015	-0.033	16087
210170X	0.012	-0.007	0.014	-0.041	16087
210170X	0.001	0.004	0.004	-0.008	16087
210170Y	-0.001	-0.006	0.006	0.001	16874
210170Z	-0.009	0.000	0.009	0.025	28023
21017PA	0.000	-0.006	0.006	0.000	26856
21017PB	0.003	0.001	0.003	0.000	20044
21017PC	-0.004	-0.008	0.008	-0.010	28876
21017PD	-0.001	0.005	0.005	-0.021	10002
21017PE	-0.005	-0.001	0.005	0.000	29893
21017PF	-0.001	0.004	0.005	-0.007	33758
21017PG	0.000	-0.003	0.003	0.007	6420
21017PH	0.010	-0.005	0.011	0.007	28595
21017PI	-0.003	-0.001	0.003	0.012	10967
21017PJ	0.003	0.002	0.004	-0.003	9296
21017PK	0.000	-0.007	0.007	0.022	35163
21017PL	-0.002	-0.001	0.002	0.000	685
21017PM	-0.004	0.011	0.012	0.026	9427
21017PN	-0.003	0.002	0.003	0.007	14257
21017PO	0.002	0.006	0.006	0.004	15898
21017PP	0.001	-0.005	0.005	-0.005	22075
21017PQ	-0.001	-0.001	0.002	-0.006	24407
21017PR	0.001	-0.007	0.007	-0.004	19276
21017PS	-0.007	-0.003	0.008	-0.017	16328
21017PT	0.001	0.000	0.001	-0.001	7781
21017PU	-0.008	-0.002	0.008	0.048	19562
21017PU	-0.007	-0.006	0.009	0.044	19562
21017PU	0.001	-0.004	0.004	-0.004	19562
21017PV	0.005	-0.002	0.005	-0.012	20402
21017PW	-0.003	0.000	0.003	0.001	24644
21017PX	-0.001	0.001	0.001	0.027	25407
21017PY	-0.004	0.001	0.005	-0.007	16269
21017PZ	0.012	-0.004	0.013	0.011	3224
21017QA	0.007	-0.006	0.010	-0.022	23390
21017QB	0.001	0.000	0.001	-0.006	21717
21017QC	0.002	-0.001	0.002	-0.012	2456
21017QD	0.001	-0.003	0.003	0.003	41096
21017QE	0.004	-0.012	0.012	-0.014	26254
21017QF	0.001	-0.002	0.002	-0.008	22303
21017QG	-0.018	-0.001	0.018	-0.008	25923

To	Delta North	Delta East	Delta Horiz	Delta Up	Length
21017QH	-0.004	-0.002	0.004	0.003	16714
21017QI	0.008	0.006	0.010	0.015	35314
21017QJ	-0.001	0.004	0.004	0.001	20886
21017QK	-0.006	0.001	0.006	-0.004	13601
21017QL	-0.001	0.006	0.006	0.002	17839
21017QM	0.006	-0.005	0.008	-0.004	21301
21017QN	0.004	-0.014	0.015	-0.022	17506
21017QO	-0.004	0.000	0.004	-0.008	22182
21017QP	0.002	0.002	0.003	-0.069	25661
21017QP	-0.030	0.014	0.033	-0.099	25661
21017QP	-0.049	0.025	0.056	-0.096	25661
21017QP	-0.032	0.012	0.034	-0.030	25661
21017QP	-0.051	0.023	0.056	-0.027	25661
21017QP	-0.019	0.012	0.023	0.003	25661
21017QQ	0.003	0.003	0.005	0.004	26007
21017QR	-0.003	0.000	0.003	-0.004	12511
21017QS	-0.007	-0.010	0.012	0.001	28330
21017QT	-0.006	0.001	0.006	-0.005	8361
21017QU	0.005	-0.009	0.010	-0.006	25215
21017QV	-0.001	0.012	0.012	-0.016	32397
21017QW	0.000	-0.002	0.003	-0.004	9992
21017QX	0.002	0.001	0.002	-0.006	18312
21017QY	-0.004	-0.001	0.004	0.002	22801
21017QZ	0.002	-0.006	0.006	0.006	12712
21017RA	-0.005	0.001	0.006	-0.026	10387
21017RB	0.001	-0.010	0.010	0.020	21307
21017RC	0.003	-0.005	0.006	0.002	13610
21017RD	0.002	-0.001	0.002	0.004	25258
21017RE	0.003	0.003	0.004	0.003	23571
21017RF	-0.007	-0.002	0.007	-0.001	11967
21017RG	-0.001	-0.007	0.007	0.002	8099
21017RH	0.027	0.007	0.028	0.066	23343
21017RH	0.017	0.022	0.028	0.067	23343
21017RH	-0.010	0.015	0.018	0.001	23343
21017RI	-0.006	-0.008	0.010	-0.001	9867
21017RJ	0.011	0.006	0.012	-0.009	24539
21017RK	-0.006	0.008	0.010	-0.009	10558
21017RL	0.007	0.013	0.014	-0.001	19342
21017RM	0.000	-0.001	0.001	-0.008	20494
21017RN	0.005	-0.003	0.006	0.004	8697
21017RO	-0.010	0.001	0.010	-0.010	18951
21017RP	0.003	0.003	0.005	-0.017	21901
21017RQ	0.007	-0.001	0.007	-0.006	24457
21017RR	-0.001	0.033	0.033	0.004	26338
21017RS	0.009	0.000	0.009	-0.007	25124
21017RT	-0.005	-0.006	0.008	-0.011	18465
21017RU	0.003	-0.002	0.004	-0.021	15934
21017RV	-0.007	0.001	0.007	-0.018	17272
21017RW	-0.002	-0.007	0.007	-0.015	9750
21017RX	0.008	0.002	0.008	0.008	22124
21017RY	0.003	0.009	0.009	-0.018	29305
21017RZ	0.000	-0.011	0.011	0.002	13980
21017SA	0.006	0.003	0.007	-0.015	11824
21017SB	-0.002	-0.005	0.006	0.002	13673

To	Delta North	Delta East	Delta Horiz	Delta Up	Length
21017SC	0.007	-0.005	0.009	-0.018	9037
21017SD	0.007	0.002	0.007	0.007	25099
21017SE	-0.003	0.010	0.011	0.012	15300
21017SF	-0.003	-0.002	0.004	0.002	11624
21017SG	0.003	0.004	0.005	0.012	3254
21017SH	0.016	-0.003	0.017	0.001	20598
21017SI	-0.008	-0.004	0.009	-0.017	31825
21017SJ	0.011	-0.003	0.011	0.013	14837
21017SK	0.003	-0.007	0.008	-0.001	8523
21017SL	-0.005	-0.010	0.011	0.011	14007
21017SM	0.005	0.000	0.005	0.013	29763
21017SN	0.007	0.009	0.012	-0.002	14184
21017SO	0.005	0.014	0.015	0.009	28700
21017SP	-0.003	0.003	0.005	0.003	1919
21017SQ	-0.004	0.000	0.004	-0.005	11283
21017SR	-0.005	-0.001	0.005	0.008	14658
21017SS	0.007	0.007	0.010	-0.007	6264
21017ST	-0.009	0.009	0.012	0.017	25266
21017SU	0.009	-0.007	0.011	0.013	22557
21017SV	0.000	0.001	0.001	-0.001	18174
21017SW	-0.001	-0.004	0.004	0.000	2525
21017SX	0.002	-0.004	0.004	0.003	8476
21017SY	0.000	-0.012	0.012	-0.005	21209
21017SZ	0.002	0.003	0.004	-0.016	28041
21017TA	0.001	0.001	0.002	0.000	16520
21017TB	0.003	0.005	0.006	-0.010	20407
21017TC	-0.007	0.000	0.007	0.001	24015
21017TD	0.005	-0.010	0.011	-0.006	25233
21017TE	0.006	-0.003	0.007	0.011	19180
21017TF	0.005	0.004	0.007	0.000	21862
21017TG	-0.034	0.014	0.036	-0.008	25719
21017TG	-0.025	0.018	0.031	-0.032	25719
21017TG	0.009	0.004	0.009	-0.024	25719
21017TH	-0.001	-0.002	0.002	-0.021	15495
21017TI	-0.017	0.001	0.017	-0.005	24086
21017TJ	0.001	0.007	0.007	0.015	44
21017TK	-0.001	-0.003	0.003	-0.012	64
21017TL	-0.021	0.009	0.023	0.026	26281
21017TL	0.000	-0.014	0.014	0.091	26281
21017TL	0.028	-0.034	0.044	0.076	26281
21017TL	0.012	-0.019	0.023	0.051	26281
21017TL	0.021	-0.023	0.031	0.065	26281
21017TL	0.050	-0.043	0.065	0.050	26281
21017TL	0.033	-0.028	0.043	0.025	26281
21017TL	0.029	-0.019	0.035	-0.015	26281
21017TL	0.012	-0.005	0.013	-0.040	26281
21017TL	-0.017	0.014	0.022	-0.025	26281
21017TM	-0.005	0.006	0.008	-0.012	37
21017TN	0.040	-0.001	0.040	0.067	12929
21017TN	0.036	-0.024	0.043	0.052	12929
21017TN	0.012	-0.010	0.016	0.048	12929
21017TN	-0.005	-0.023	0.023	-0.016	12929
21017TN	-0.028	-0.009	0.029	-0.019	12929
21017TN	-0.023	0.014	0.027	-0.003	12929

To	Delta North	Delta East	Delta Horiz	Delta Up	Length
21017TO	0.007	-0.012	0.014	-0.011	20
21017TP	0.001	0.001	0.001	-0.005	39
21017TQ	0.000	0.000	0.000	0.000	23979
21017TQ	0.037	0.012	0.039	0.035	23979
21017TQ	0.033	0.028	0.043	0.031	23979
21017TQ	0.037	0.012	0.039	0.035	23979
21017TQ	0.033	0.028	0.043	0.031	23979
21017TQ	-0.004	0.015	0.016	-0.004	23979
21017TR	-0.003	-0.005	0.006	0.000	37
21017TS	-0.002	0.000	0.002	0.009	17
21017TT	-0.002	-0.003	0.003	0.003	30
21017TU	0.009	0.013	0.016	0.005	27
21017TV	0.011	-0.004	0.012	-0.022	22
21017TW	0.001	-0.012	0.012	0.018	24
21017WA	-0.005	0.004	0.007	0.016	7435
21017WB	0.002	0.004	0.004	0.018	8321
21017WC	0.003	0.001	0.003	0.007	7146
21017WD	-0.004	-0.001	0.005	-0.012	16421
21017WE	0.003	0.004	0.005	0.025	21274
21017WF	-0.005	0.005	0.007	0.025	20284
21017WG	0.005	0.005	0.007	-0.042	19013
21017WG	0.001	0.002	0.002	-0.042	19013
21017WG	-0.004	-0.003	0.005	0.000	19013
21017WH	0.004	0.007	0.008	0.038	27291
21017WH	0.013	0.005	0.014	0.032	27291
21017WH	0.009	-0.002	0.009	-0.006	27291
21017WI	-0.001	0.009	0.009	0.004	31360
21017ZA	0.001	0.001	0.001	-0.002	16028
21017ZB	-0.003	0.007	0.007	0.009	24979

LEAST SQUARES ADJUSTMENTS

Geolab was used to adjust the VRS/RTK vectors. No scaling of the apriori GPS statistics was done. Station errors (centering, HI and HT) of 0.005 m were input. The GEOID18 model was used.

The adjustment constrained the VRS CORS positions (as computed and broadcast by the network) in all three dimensions (NAD83 (2011) latitude, longitude, and ellipsoidal height). The estimated variance factor was 0.22. This adjustment provided the adjusted positions (NAD83 (2011) epoch 2010.0) and GPS derived orthometric heights (NAVD88) for the stations in the network. The adjusted latitude/longitudes were transformed to UTM Zone 14 grid coordinates. Table 5 lists the station confidence regions at the 95% level, in meters.

Table 5 - Station Confidence Regions @ 95% meters

Station Name	Semi-Major Axis	Azimuth	Semi-Minor Axis	Vertical
21017AA	0.010	7	0.008	0.011
21017AB	0.009	175	0.007	0.010
21017AC	0.009	155	0.007	0.013
21017AD	0.009	168	0.007	0.011
21017AE	0.010	130	0.008	0.015
21017AF	0.009	174	0.007	0.009

Station Name	Semi-Major Axis	Azimuth	Semi-Minor Axis	Vertical
21017AG	0.010	11	0.008	0.010
21017AH	0.010	178	0.009	0.013
21017AI	0.008	169	0.007	0.010
21017AJ	0.008	9	0.007	0.008
21017AK	0.010	22	0.009	0.012
21017AL	0.011	179	0.009	0.012
21017AM	0.009	168	0.008	0.015
21017AN	0.009	121	0.009	0.011
21017AO	0.011	3	0.007	0.010
21017AP	0.010	155	0.008	0.020
21017AQ	0.011	164	0.008	0.012
21017AR	0.009	1	0.008	0.010
21017AS	0.007	160	0.007	0.008
21017AT	0.009	58	0.008	0.010
21017AU	0.011	179	0.009	0.011
21017AV	0.012	178	0.011	0.018
21017AW	0.008	174	0.008	0.013
21017AX	0.007	9	0.007	0.009
21017AY	0.009	23	0.008	0.011
21017AZ	0.010	170	0.009	0.014
21017BA	0.009	35	0.008	0.012
21017BB	0.008	14	0.007	0.008
21017BC	0.010	146	0.009	0.015
21017BD	0.008	137	0.008	0.011
21017BE	0.009	179	0.007	0.011
21017BF	0.007	159	0.007	0.009
21017BG	0.008	19	0.007	0.009
21017BH	0.008	150	0.007	0.011
21017BI	0.008	5	0.007	0.009
21017BJ	0.010	38	0.009	0.011
21017BK	0.011	138	0.008	0.011
21017BL	0.012	156	0.010	0.018
21017BM	0.008	19	0.007	0.010
21017BN	0.008	35	0.008	0.009
21017BO	0.009	145	0.007	0.010
21017BP	0.012	140	0.010	0.022
21017BQ	0.009	173	0.008	0.013
21017BR	0.010	147	0.009	0.012
21017BS	0.009	170	0.007	0.013
21017BT	0.009	5	0.008	0.011
21017BU	0.010	10	0.008	0.013
21017BV	0.008	145	0.008	0.017
21017BW	0.008	21	0.008	0.013
21017BX	0.007	6	0.007	0.008
21017BY	0.012	128	0.011	0.017
21017BZ	0.008	13	0.007	0.008
21017CA	0.007	19	0.007	0.008
21017CB	0.008	137	0.007	0.009
21017CC	0.009	162	0.007	0.011
21017CD	0.010	132	0.008	0.012
21017CE	0.007	15	0.006	0.008
21017CF	0.008	150	0.007	0.010
21017CG	0.011	157	0.008	0.013
21017CH	0.011	6	0.009	0.015
21017CI	0.008	14	0.007	0.010
21017CJ	0.010	171	0.007	0.010
21017CK	0.008	172	0.007	0.007
21017CL	0.009	8	0.008	0.011
21017CM	0.009	180	0.008	0.011
21017CN	0.009	167	0.007	0.010
21017CO	0.008	148	0.006	0.010
21017CP	0.009	127	0.008	0.010
21017CQ	0.008	1	0.007	0.009
21017CR	0.011	147	0.008	0.017

Station Name	Semi-Major Axis	Azimuth	Semi-Minor Axis	Vertical
21017CS	0.008	7	0.007	0.008
21017CT	0.013	152	0.009	0.013
21017CU	0.011	27	0.010	0.014
21017CV	0.012	174	0.009	0.016
21017CW	0.008	163	0.007	0.009
21017CX	0.009	15	0.008	0.011
21017CY	0.010	170	0.008	0.014
21017CZ	0.008	140	0.007	0.009
21017DA	0.009	137	0.008	0.012
21017DB	0.008	165	0.007	0.009
21017DC	0.010	99	0.009	0.013
21017DD	0.009	150	0.008	0.012
21017DE	0.009	175	0.008	0.014
21017DF	0.010	22	0.008	0.010
21017DG	0.008	4	0.007	0.010
21017DH	0.013	14	0.009	0.013
21017DI	0.010	19	0.009	0.013
21017DJ	0.011	9	0.007	0.011
21017DK	0.009	3	0.008	0.010
21017DL	0.009	155	0.008	0.010
21017DM	0.008	145	0.008	0.012
21017DN	0.010	176	0.008	0.013
21017DO	0.008	8	0.007	0.008
21017DP	0.009	166	0.007	0.012
21017DQ	0.009	8	0.007	0.010
21017DR	0.008	176	0.007	0.008
21017DS	0.010	137	0.008	0.010
21017DT	0.008	143	0.008	0.011
21017DU	0.007	177	0.006	0.007
21017DV	0.010	159	0.008	0.012
21017DW	0.009	168	0.008	0.011
21017DX	0.010	166	0.008	0.014
21017DY	0.008	151	0.007	0.009
21017DZ	0.008	159	0.007	0.012
21017EA	0.008	11	0.007	0.009
21017EB	0.008	159	0.007	0.012
21017EC	0.009	4	0.007	0.010
21017ED	0.008	11	0.007	0.009
21017EE	0.012	168	0.009	0.016
21017EF	0.008	162	0.007	0.009
21017EG	0.008	123	0.007	0.012
21017EH	0.009	143	0.008	0.013
21017EI	0.009	156	0.007	0.010
21017EJ	0.007	167	0.006	0.010
21017EK	0.009	3	0.008	0.012
21017EL	0.011	173	0.008	0.011
21017EM	0.010	137	0.009	0.017
21017EN	0.010	6	0.008	0.010
21017EO	0.010	166	0.008	0.014
21017EP	0.010	21	0.007	0.009
21017EQ	0.011	175	0.009	0.015
21017ER	0.009	134	0.008	0.013
21017ES	0.009	15	0.007	0.009
21017ET	0.008	10	0.007	0.009
21017EU	0.009	6	0.007	0.009
21017EV	0.009	162	0.008	0.011
21017EW	0.013	161	0.009	0.015
21017EX	0.008	10	0.007	0.008
21017EY	0.013	170	0.009	0.013
21017EZ	0.009	154	0.008	0.012
21017FA	0.009	16	0.008	0.008
21017FB	0.010	19	0.008	0.011
21017FC	0.008	72	0.008	0.011
21017FD	0.014	23	0.009	0.014

Station Name	Semi-Major Axis	Azimuth	Semi-Minor Axis	Vertical
21017FE	0.009	87	0.008	0.010
21017FF	0.008	126	0.008	0.009
21017FG	0.013	175	0.009	0.016
21017FH	0.009	48	0.008	0.010
21017FI	0.008	5	0.007	0.009
21017FJ	0.008	19	0.007	0.008
21017FK	0.014	176	0.008	0.013
21017FL	0.008	2	0.007	0.008
21017FM	0.008	159	0.007	0.010
21017FN	0.011	0	0.008	0.013
21017FO	0.008	16	0.007	0.008
21017FP	0.008	2	0.007	0.010
21017FQ	0.009	42	0.009	0.012
21017FR	0.008	49	0.008	0.009
21017FS	0.010	2	0.007	0.012
21017FT	0.009	160	0.008	0.013
21017FU	0.008	7	0.007	0.009
21017FV	0.009	50	0.008	0.010
21017FW	0.008	161	0.007	0.016
21017FX	0.008	25	0.007	0.011
21017FY	0.009	139	0.008	0.012
21017FZ	0.011	158	0.009	0.014
21017GA	0.009	25	0.008	0.010
21017GB	0.007	160	0.007	0.010
21017GC	0.009	153	0.008	0.011
21017GD	0.008	2	0.007	0.009
21017GE	0.009	168	0.008	0.013
21017GF	0.007	163	0.007	0.010
21017GG	0.013	21	0.010	0.016
21017GH	0.009	179	0.007	0.010
21017GI	0.007	178	0.007	0.009
21017GJ	0.008	174	0.007	0.010
21017GK	0.012	150	0.008	0.014
21017GL	0.012	145	0.009	0.019
21017GM	0.008	12	0.007	0.009
21017GN	0.010	149	0.009	0.013
21017GO	0.010	141	0.009	0.015
21017GP	0.008	25	0.007	0.009
21017GQ	0.009	48	0.008	0.011
21017GR	0.009	167	0.008	0.009
21017GS	0.009	151	0.009	0.014
21017GT	0.008	166	0.007	0.014
21017GU	0.009	158	0.007	0.009
21017GV	0.008	128	0.008	0.010
21017GW	0.008	55	0.008	0.011
21017GX	0.008	159	0.007	0.014
21017GY	0.008	9	0.007	0.009
21017GZ	0.008	176	0.007	0.010
21017HA	0.008	163	0.007	0.010
21017HB	0.009	170	0.008	0.009
21017HC	0.009	169	0.008	0.008
21017HD	0.010	177	0.008	0.013
21017HE	0.007	160	0.007	0.008
21017HF	0.008	136	0.008	0.009
21017HG	0.009	4	0.007	0.010
21017HH	0.008	160	0.007	0.008
21017HI	0.011	171	0.008	0.016
21017HJ	0.010	11	0.008	0.011
21017HK	0.009	126	0.008	0.008
21017HL	0.010	170	0.008	0.011
21017HM	0.008	158	0.007	0.012
21017HN	0.007	101	0.007	0.008
21017HO	0.011	8	0.009	0.014
21017HP	0.007	170	0.006	0.008

Station Name	Semi-Major Axis	Azimuth	Semi-Minor Axis	Vertical
21017HQ	0.007	155	0.006	0.009
21017HR	0.010	152	0.007	0.015
21017HS	0.010	12	0.008	0.011
21017HT	0.010	29	0.009	0.017
21017HU	0.009	29	0.008	0.010
21017HV	0.010	17	0.008	0.012
21017HW	0.011	157	0.008	0.013
21017HX	0.009	19	0.007	0.012
21017HY	0.010	12	0.008	0.013
21017HZ	0.009	161	0.008	0.014
21017IA	0.008	141	0.007	0.013
21017IB	0.007	173	0.006	0.006
21017IC	0.008	176	0.007	0.008
21017ID	0.009	124	0.007	0.009
21017IE	0.012	21	0.010	0.015
21017IF	0.007	23	0.007	0.007
21017IG	0.008	25	0.007	0.010
21017IH	0.010	118	0.009	0.013
21017II	0.011	16	0.009	0.015
21017IJ	0.010	16	0.008	0.012
21017IK	0.011	9	0.008	0.013
21017IL	0.009	179	0.008	0.010
21017IM	0.008	133	0.007	0.008
21017IN	0.010	7	0.008	0.013
21017IO	0.007	170	0.007	0.007
21017IP	0.010	164	0.008	0.012
21017IQ	0.007	177	0.007	0.009
21017IR	0.010	155	0.008	0.012
21017IS	0.010	14	0.007	0.010
21017IT	0.010	133	0.009	0.012
21017IU	0.008	137	0.007	0.009
21017IV	0.007	11	0.007	0.008
21017IW	0.008	9	0.008	0.011
21017IX	0.009	2	0.007	0.014
21017IY	0.008	164	0.007	0.009
21017IZ	0.009	3	0.008	0.013
21017JA	0.011	155	0.008	0.012
21017JB	0.009	7	0.007	0.011
21017JC	0.010	23	0.008	0.014
21017JD	0.008	14	0.008	0.010
21017JE	0.011	96	0.011	0.017
21017JF	0.008	173	0.007	0.008
21017JG	0.007	17	0.006	0.007
21017JH	0.009	147	0.008	0.013
21017JI	0.008	153	0.007	0.010
21017JJ	0.010	123	0.008	0.015
21017JK	0.009	59	0.008	0.010
21017JL	0.009	118	0.008	0.009
21017JM	0.010	180	0.009	0.020
21017JN	0.010	166	0.008	0.013
21017JO	0.009	159	0.008	0.017
21017JP	0.008	13	0.007	0.009
21017JQ	0.010	82	0.009	0.012
21017JR	0.009	158	0.008	0.013
21017JS	0.011	164	0.008	0.015
21017JT	0.010	141	0.009	0.012
21017JU	0.008	163	0.007	0.009
21017JV	0.010	153	0.009	0.017
21017JW	0.009	157	0.008	0.012
21017JX	0.008	3	0.007	0.010
21017JY	0.013	1	0.010	0.013
21017JZ	0.010	130	0.008	0.011
21017KA	0.013	150	0.008	0.012
21017KB	0.008	6	0.007	0.010

Station Name	Semi-Major Axis	Azimuth	Semi-Minor Axis	Vertical
21017KC	0.007	13	0.006	0.009
21017KD	0.010	168	0.008	0.011
21017KE	0.013	169	0.008	0.012
21017KF	0.008	15	0.007	0.009
21017KG	0.011	7	0.010	0.013
21017KH	0.009	170	0.008	0.011
21017KI	0.009	162	0.008	0.013
21017KJ	0.010	151	0.008	0.013
21017KK	0.009	159	0.008	0.011
21017KL	0.007	148	0.006	0.010
21017KM	0.009	129	0.008	0.009
21017KN	0.012	140	0.009	0.021
21017KO	0.011	1	0.008	0.011
21017KP	0.009	149	0.008	0.011
21017KQ	0.008	160	0.007	0.010
21017KR	0.011	11	0.009	0.014
21017KS	0.012	169	0.010	0.015
21017KT	0.008	13	0.007	0.010
21017KU	0.011	14	0.009	0.014
21017KV	0.010	90	0.009	0.010
21017KW	0.012	29	0.010	0.016
21017KX	0.008	139	0.008	0.009
21017KY	0.009	21	0.008	0.012
21017KZ	0.014	170	0.008	0.014
21017LA	0.011	166	0.008	0.016
21017LB	0.010	165	0.008	0.015
21017LC	0.009	179	0.008	0.011
21017LD	0.009	135	0.008	0.010
21017LE	0.014	166	0.009	0.016
21017LF	0.010	175	0.008	0.014
21017LG	0.008	28	0.008	0.011
21017LH	0.008	9	0.007	0.010
21017LI	0.009	13	0.008	0.010
21017LJ	0.008	147	0.008	0.011
21017LK	0.011	27	0.010	0.013
21017LL	0.009	175	0.008	0.011
21017LM	0.010	173	0.007	0.010
21017LN	0.009	142	0.008	0.010
21017LO	0.007	164	0.007	0.007
21017LP	0.010	170	0.008	0.016
21017LQ	0.008	144	0.008	0.009
21017LR	0.008	163	0.007	0.008
21017LS	0.010	5	0.008	0.015
21017LT	0.008	18	0.007	0.010
21017LU	0.007	24	0.007	0.007
21017LV	0.009	24	0.007	0.009
21017LW	0.009	17	0.008	0.011
21017LX	0.011	171	0.009	0.013
21017LY	0.008	6	0.007	0.010
21017LZ	0.009	19	0.007	0.010
21017MA	0.009	26	0.008	0.010
21017MB	0.007	10	0.007	0.007
21017MC	0.008	5	0.008	0.013
21017MD	0.010	24	0.008	0.010
21017ME	0.008	9	0.007	0.010
21017MF	0.008	91	0.007	0.011
21017MG	0.008	9	0.007	0.008
21017MH	0.010	160	0.009	0.011
21017MI	0.008	166	0.007	0.009
21017MJ	0.008	0	0.007	0.010
21017MK	0.009	12	0.008	0.011
21017ML	0.011	80	0.010	0.016
21017MM	0.009	163	0.007	0.013
21017MN	0.008	169	0.007	0.012

Station Name	Semi-Major Axis	Azimuth	Semi-Minor Axis	Vertical
21017MO	0.008	149	0.007	0.013
21017MP	0.010	8	0.007	0.011
21017MQ	0.008	10	0.007	0.010
21017MR	0.007	8	0.007	0.009
21017MS	0.010	2	0.008	0.010
21017MT	0.008	155	0.007	0.008
21017MU	0.010	146	0.007	0.010
21017MV	0.008	169	0.007	0.009
21017MW	0.009	111	0.008	0.013
21017MX	0.009	158	0.008	0.012
21017MY	0.010	158	0.008	0.014
21017MZ	0.014	162	0.010	0.018
21017NA	0.008	140	0.007	0.011
21017NB	0.011	170	0.008	0.012
21017NC	0.009	167	0.007	0.012
21017ND	0.008	169	0.007	0.010
21017NE	0.008	158	0.006	0.011
21017NF	0.008	147	0.007	0.012
21017NG	0.008	136	0.007	0.014
21017NH	0.007	3	0.007	0.012
21017NI	0.009	20	0.008	0.014
21017NJ	0.010	158	0.008	0.013
21017NK	0.013	10	0.010	0.014
21017NL	0.013	20	0.010	0.014
21017NM	0.009	172	0.007	0.011
21017NN	0.007	156	0.006	0.010
21017NO	0.009	175	0.007	0.014
21017NP	0.009	159	0.007	0.013
21017NQ	0.010	6	0.008	0.012
21017NR	0.010	152	0.009	0.013
21017NS	0.010	170	0.008	0.014
21017NT	0.009	12	0.007	0.009
21017NU	0.010	20	0.009	0.013
21017NV	0.009	19	0.008	0.011
21017NW	0.008	172	0.007	0.010
21017NX	0.009	147	0.008	0.013
21017NY	0.009	126	0.008	0.011
21017NZ	0.009	8	0.008	0.010
21017OA	0.007	54	0.007	0.010
21017OB	0.009	11	0.008	0.016
21017OC	0.009	163	0.008	0.017
21017OD	0.009	22	0.007	0.012
21017OE	0.009	112	0.008	0.009
21017OF	0.008	25	0.007	0.010
21017OG	0.009	54	0.008	0.010
21017OH	0.008	7	0.007	0.011
21017OI	0.009	122	0.008	0.011
21017OJ	0.012	166	0.008	0.015
21017OK	0.010	155	0.008	0.017
21017OL	0.009	173	0.007	0.012
21017OM	0.009	37	0.008	0.010
21017ON	0.007	15	0.007	0.010
21017OO	0.008	33	0.007	0.008
21017OP	0.011	155	0.010	0.016
21017OQ	0.010	178	0.009	0.012
21017OR	0.009	176	0.007	0.010
21017OS	0.008	13	0.008	0.010
21017OT	0.008	120	0.008	0.008
21017OU	0.009	8	0.007	0.011
21017OV	0.010	159	0.009	0.012
21017OW	0.009	3	0.007	0.009
21017OX	0.008	114	0.007	0.010
21017OY	0.008	158	0.008	0.010
21017OZ	0.014	150	0.009	0.015

Station Name	Semi-Major Axis	Azimuth	Semi-Minor Axis	Vertical
21017PA	0.009	5	0.007	0.010
21017PB	0.009	16	0.008	0.010
21017PC	0.009	28	0.008	0.012
21017PD	0.007	172	0.007	0.010
21017PE	0.011	3	0.009	0.014
21017PF	0.009	10	0.008	0.012
21017PG	0.008	42	0.007	0.007
21017PH	0.010	164	0.009	0.016
21017PI	0.010	5	0.009	0.013
21017PJ	0.007	169	0.007	0.008
21017PK	0.010	22	0.009	0.016
21017PL	0.006	1	0.006	0.006
21017PM	0.008	153	0.007	0.014
21017PN	0.008	10	0.007	0.009
21017PO	0.010	140	0.008	0.009
21017PP	0.009	176	0.008	0.011
21017PQ	0.009	151	0.008	0.011
21017PR	0.010	138	0.008	0.010
21017PS	0.010	141	0.008	0.016
21017PT	0.009	125	0.008	0.010
21017PU	0.009	151	0.007	0.011
21017PV	0.009	13	0.007	0.009
21017PW	0.007	11	0.007	0.010
21017PX	0.009	176	0.008	0.013
21017PY	0.009	151	0.008	0.011
21017PZ	0.008	171	0.007	0.009
21017QA	0.008	156	0.007	0.011
21017QB	0.008	34	0.008	0.011
21017QC	0.007	3	0.007	0.008
21017QD	0.011	22	0.008	0.013
21017QE	0.010	138	0.008	0.011
21017QF	0.009	113	0.008	0.014
21017QG	0.010	3	0.008	0.013
21017QH	0.008	171	0.008	0.010
21017QI	0.009	9	0.008	0.013
21017QJ	0.009	10	0.007	0.010
21017QK	0.008	1	0.008	0.010
21017QL	0.010	146	0.008	0.010
21017QM	0.008	118	0.008	0.012
21017QN	0.008	169	0.007	0.012
21017QO	0.011	153	0.009	0.011
21017QP	0.009	164	0.006	0.012
21017QQ	0.009	7	0.007	0.011
21017QR	0.007	170	0.007	0.009
21017QS	0.009	158	0.008	0.014
21017QT	0.007	14	0.006	0.007
21017QU	0.012	5	0.008	0.014
21017QV	0.009	31	0.008	0.012
21017QW	0.009	171	0.008	0.012
21017QX	0.010	130	0.008	0.013
21017QY	0.011	142	0.008	0.015
21017QZ	0.009	144	0.007	0.011
21017RA	0.008	160	0.007	0.011
21017RB	0.010	168	0.009	0.015
21017RC	0.007	17	0.007	0.008
21017RD	0.012	162	0.010	0.015
21017RE	0.008	169	0.008	0.012
21017RF	0.010	152	0.007	0.010
21017RG	0.009	14	0.008	0.009
21017RH	0.009	144	0.008	0.011
21017RI	0.009	15	0.008	0.009
21017RJ	0.009	124	0.008	0.010
21017RK	0.009	172	0.007	0.008
21017RL	0.008	144	0.008	0.010

Station Name	Semi-Major Axis	Azimuth	Semi-Minor Axis	Vertical
21017RM	0.008	171	0.007	0.012
21017RN	0.009	166	0.008	0.009
21017RO	0.010	121	0.008	0.011
21017RP	0.008	145	0.007	0.009
21017RQ	0.011	21	0.008	0.013
21017RR	0.011	20	0.008	0.013
21017RS	0.010	169	0.009	0.011
21017RT	0.010	179	0.008	0.013
21017RU	0.009	169	0.008	0.014
21017RV	0.009	135	0.008	0.012
21017RW	0.010	20	0.008	0.013
21017RX	0.010	12	0.008	0.012
21017RY	0.013	163	0.010	0.017
21017RZ	0.009	17	0.007	0.009
21017SA	0.009	39	0.008	0.009
21017SB	0.009	24	0.008	0.009
21017SC	0.008	158	0.007	0.009
21017SD	0.012	156	0.008	0.013
21017SE	0.010	115	0.009	0.010
21017SF	0.009	48	0.008	0.011
21017SG	0.007	1	0.007	0.008
21017SH	0.009	2	0.008	0.011
21017SI	0.010	154	0.009	0.017
21017SJ	0.010	156	0.008	0.013
21017SK	0.009	151	0.007	0.012
21017SL	0.010	153	0.008	0.014
21017SM	0.008	150	0.008	0.010
21017SN	0.010	44	0.008	0.010
21017SO	0.009	21	0.007	0.013
21017SP	0.006	12	0.006	0.006
21017SQ	0.008	159	0.008	0.013
21017SR	0.010	31	0.009	0.012
21017SS	0.008	9	0.007	0.007
21017ST	0.009	175	0.008	0.014
21017SU	0.009	177	0.008	0.012
21017SV	0.009	156	0.008	0.013
21017SW	0.007	30	0.007	0.007
21017SX	0.008	3	0.007	0.008
21017SY	0.009	149	0.009	0.015
21017SZ	0.008	171	0.007	0.012
21017TA	0.009	144	0.008	0.011
21017TB	0.008	129	0.007	0.009
21017TC	0.010	6	0.007	0.010
21017TD	0.009	109	0.008	0.010
21017TE	0.008	147	0.007	0.009
21017TF	0.010	172	0.009	0.013
21017TG	0.013	179	0.009	0.016
21017TH	0.008	114	0.008	0.013
21017TI	0.012	173	0.010	0.015
21017TJ	0.012	13	0.011	0.015
21017TK	0.011	174	0.010	0.012
21017TL	0.009	24	0.008	0.017
21017TM	0.012	154	0.010	0.011
21017TN	0.011	162	0.009	0.014
21017TO	0.015	157	0.011	0.016
21017TP	0.012	27	0.011	0.015
21017TQ	0.009	43	0.008	0.014
21017TR	0.013	103	0.012	0.017
21017TS	0.011	154	0.010	0.011
21017TT	0.011	21	0.010	0.012
21017TU	0.014	82	0.011	0.026
21017TV	0.012	1	0.010	0.018
21017TW	0.012	165	0.011	0.014
21017WA	0.009	10	0.007	0.014

Station Name	Semi-Major Axis	Azimuth	Semi-Minor Axis	Vertical
21017WB	0.008	19	0.007	0.009
21017WC	0.008	149	0.007	0.009
21017WD	0.012	161	0.008	0.014
21017WE	0.010	14	0.009	0.013
21017WF	0.009	151	0.008	0.012
21017WG	0.008	136	0.006	0.014
21017WH	0.009	32	0.008	0.012
21017WI	0.011	108	0.010	0.015
21017ZA	0.006	165	0.006	0.006
21017ZB	0.007	176	0.006	0.007

SUMMARY

A LiDAR ground control network was established in eastern South Dakota. The estimated accuracy of the control network is ± 0.03 m with respect to the NAD83 (2011) epoch 2010.0 reference frame and the NAVD88 vertical datum (using GEOID18).

Adjusted Coordinates

Horizontal Datum: NAD83 (2011) epoch 2010.0

Vertical Datum: NAVD88=Ellipsoidal Height-GEOID18

UTM Zone: 14

Units: meters

Table 6 - Adjusted Coordinates

Station Name	GPSID	Latitude	Longitude	Ellipsoidal Height	NAVD 1988 Height	UTM Northing	UTM Easting
GCP001	21017AA	44°37'10.93508" N	98°39'57.10229" W	388.985	413.656	4940760.062	526508.833
GCP002	21017AB	43°28'15.40770" N	98°40'05.08692" W	449.691	476.094	4813168.274	526846.745
GCP003	21017AC	44°23'59.13854" N	98°39'37.66580" W	409.681	434.658	4916330.996	527038.659
GCP004	21017AD	44°13'32.64459" N	98°39'34.35435" W	444.186	469.243	4897001.533	527192.149
GCP005	21017AE	43°22'13.21806" N	98°31'11.46621" W	474.553	501.122	4802053.508	538900.258
GCP006	21017AF	44°29'11.60945" N	98°29'54.69598" W	385.166	410.022	4926038.378	539875.171
GCP007	21017AG	44°16'50.24524" N	98°29'54.13678" W	397.247	422.352	4903164.200	540027.603
GCP008	21017AH	43°28'39.79141" N	98°24'37.24505" W	455.119	481.553	4814035.842	547687.765
GCP009	21017AI	44°36'13.63981" N	98°20'29.43318" W	376.495	401.099	4939148.758	552255.599
GCP010	21017AJ	44°22'13.98320" N	98°20'11.14816" W	374.545	399.569	4913244.546	552868.932
GCP011	21017AK	44°14'24.69175" N	98°20'08.81575" W	374.232	399.433	4898765.505	553037.803
GCP012	21017AL	44°03'14.47087" N	98°16'56.16445" W	371.886	397.377	4878123.108	557491.349
GCP013	21017AM	43°30'47.27099" N	98°16'54.01546" W	490.221	516.624	4818050.266	558060.323
GCP014	21017AN	43°51'04.97488" N	98°16'00.56447" W	377.964	403.920	4855627.585	558928.374
GCP015	21017AO	43°15'13.08190" N	98°13'38.43755" W	408.189	434.828	4789270.818	562718.396
GCP016	21017AP	44°10'40.87100" N	98°12'40.54855" W	375.989	401.342	4891947.836	563046.926
GCP017	21017AQ	43°23'01.49177" N	98°12'34.03805" W	448.578	475.202	4803734.205	564033.686
GCP018	21017AR	43°42'07.94857" N	98°11'10.84088" W	393.381	419.574	4839120.230	565559.587
GCP019	21017AS	44°17'51.63857" N	98°08'03.63497" W	365.270	390.448	4905300.413	569055.405
GCP020	21017AT	44°30'54.89744" N	98°06'47.62803" W	372.884	397.577	4929485.427	570477.894
GCP021	21017AU	42°52'48.39772" N	98°03'00.09552" W	410.542	436.573	4747939.076	577581.415
GCP022	21017AV	44°00'36.28979" N	98°01'51.38464" W	367.232	392.876	4873448.898	577680.488
GCP023	21017AW	43°51'10.76159" N	98°01'53.30516" W	372.429	398.311	4856000.738	577842.369
GCP024	21017AX	43°15'15.82207" N	98°01'52.60365" W	473.720	500.277	4789521.085	578632.575
GCP025	21017AY	43°30'48.07402" N	98°00'15.82849" W	391.151	417.675	4818305.851	580471.347
GCP026	21017AZ	42°59'44.15308" N	98°00'39.08632" W	435.929	462.090	4760800.616	580629.433
GCP027	21017BA	44°36'08.71897" N	97°58'39.58608" W	389.759	414.339	4939294.340	581131.161
GCP028	21017BB	45°08'18.39405" N	97°57'50.53987" W	417.876	442.504	4998851.804	581452.705
GCP029	21017BC	44°11'03.10933" N	97°58'49.40152" W	376.944	402.407	4892836.935	581493.183
GCP030	21017BD	44°25'37.00195" N	97°58'20.72986" W	386.346	411.283	4919807.902	581791.939
GCP031	21017BE	44°16'54.69798" N	97°58'24.93127" W	381.179	406.438	4903691.462	581900.889
GCP032	21017BF	44°53'31.47926" N	97°57'28.97835" W	414.167	438.670	4971489.726	582275.677
GCP033	21017BG	45°54'26.85377" N	97°56'13.59375" W	378.156	403.511	5084314.902	582439.036
GCP034	21017BH	44°42'14.79514" N	97°57'27.02484" W	411.198	435.734	4950610.147	582586.246
GCP035	21017BI	43°42'10.20683" N	97°56'50.99624" W	373.008	399.151	4839406.456	584803.585
GCP036	21017BJ	45°21'20.84874" N	97°53'55.78074" W	438.173	463.032	5023065.275	586250.333
GCP037	21017BK	43°23'55.52960" N	97°55'01.48118" W	387.521	414.060	4805667.205	587694.540

Station Name	GPSID	Latitude	Longitude	Ellipsoidal Height	NAVD 1988 Height	UTM Northing	UTM Easting
GCP038	21017BL	45°31'47.10019" N	97°51'23.89566" W	412.834	437.774	5042437.395	589280.084
GCP039	21017BM	45°44'51.78396" N	97°50'02.55557" W	373.301	398.542	5066678.837	590692.014
GCP040	21017BN	45°08'57.48567" N	97°50'27.47364" W	535.620	560.260	5000189.507	591112.121
GCP041	21017BO	43°07'34.06038" N	97°49'59.58723" W	412.692	438.875	4775481.897	594908.108
GCP042	21017BP	44°37'51.96568" N	97°46'32.26221" W	468.408	493.014	4942700.841	597116.524
GCP043	21017BQ	43°51'27.12865" N	97°47'26.84074" W	382.271	408.147	4856760.417	597179.384
GCP044	21017BR	43°15'22.25249" N	97°47'47.06268" W	380.318	406.618	4789967.142	597694.836
GCP045	21017BS	44°21'15.48745" N	97°46'22.94853" W	424.413	449.528	4911957.615	597783.235
GCP046	21017BT	43°31'25.46661" N	97°47'10.68409" W	375.740	402.014	4819693.445	598082.606
GCP047	21017BU	44°30'47.70396" N	97°43'58.30607" W	463.548	488.339	4929661.902	600711.891
GCP048	21017BV	42°53'11.73322" N	97°45'48.29631" W	359.576	385.504	4748962.855	600977.716
GCP049	21017BW	44°10'59.34361" N	97°42'35.38318" W	413.726	439.192	4893024.589	603119.877
GCP050	21017BX	44°48'16.14187" N	97°40'29.67660" W	531.399	556.025	4962085.408	604791.999
GCP051	21017BY	44°03'08.65381" N	97°41'27.93566" W	409.699	435.368	4878526.042	604848.343
GCP052	21017BZ	45°20'28.73195" N	97°39'11.25888" W	526.335	551.246	5021749.539	605521.922
GCP053	21017CA	44°58'41.86345" N	97°39'25.01343" W	523.915	548.622	4981416.639	605893.007
GCP054	21017CB	45°54'23.17882" N	97°36'17.26116" W	373.266	398.842	5084598.641	608215.592
GCP055	21017CC	45°43'04.79921" N	97°36'23.00324" W	545.516	570.651	5063660.495	608457.098
GCP056	21017CD	43°40'23.99863" N	97°38'47.10630" W	393.901	419.909	4836481.827	609116.334
GCP057	21017CE	45°09'06.08259" N	97°35'48.14413" W	524.027	548.864	5000759.231	610308.715
GCP058	21017CF	45°31'58.75216" N	97°34'17.75421" W	525.813	550.881	5043153.504	611531.067
GCP059	21017CG	43°24'00.61318" N	97°37'09.50897" W	380.201	406.310	4806180.277	611805.472
GCP060	21017CH	44°37'50.27814" N	97°34'23.56692" W	534.420	559.121	4942909.781	613172.961
GCP061	21017CI	44°25'36.34576" N	97°34'19.48029" W	500.495	525.499	4920265.722	613658.862
GCP062	21017CJ	44°16'03.38598" N	97°34'19.76251" W	473.522	498.851	4902587.351	613960.634
GCP063	21017CK	43°15'33.76091" N	97°34'43.94534" W	384.192	410.176	4790599.357	615345.974
GCP064	21017CL	43°31'01.98249" N	97°34'02.86202" W	399.600	425.639	4819250.257	615780.329
GCP065	21017CM	43°00'37.01108" N	97°33'23.88853" W	371.622	397.459	4762967.226	617627.514
GCP066	21017CN	42°53'06.80879" N	97°33'11.44121" W	439.426	465.085	4749084.600	618148.279
GCP067	21017CO	44°11'41.75999" N	97°30'39.28517" W	481.530	507.028	4894602.086	618995.087
GCP068	21017CP	43°51'18.82358" N	97°30'36.81066" W	435.124	461.028	4856872.224	619731.978
GCP069	21017CQ	45°09'06.14158" N	97°24'44.53649" W	521.824	546.876	5001029.248	624798.729
GCP070	21017CR	45°44'51.56710" N	97°23'34.41972" W	564.084	589.331	5067267.043	625005.988
GCP071	21017CS	45°00'24.40386" N	97°24'43.64489" W	505.068	530.062	4984929.846	625134.214
GCP072	21017CT	44°49'07.07116" N	97°24'37.82934" W	515.928	540.786	4964031.772	625670.995
GCP073	21017CU	44°02'13.23892" N	97°25'48.99162" W	476.731	502.436	4877181.344	625773.566
GCP074	21017CV	44°37'49.41396" N	97°24'39.56314" W	522.706	547.472	4943121.083	626041.101
GCP075	21017CW	43°42'08.77745" N	97°25'43.67210" W	430.310	456.271	4840023.632	626598.345
GCP076	21017CX	44°29'03.93970" N	97°22'11.48135" W	525.489	550.424	4926971.774	629627.618
GCP077	21017CY	43°31'04.32313" N	97°23'16.57115" W	417.708	443.738	4819587.982	630288.677
GCP078	21017CZ	45°22'11.51142" N	97°19'30.19771" W	535.170	560.303	5025403.485	631159.000
GCP079	21017DA	45°54'23.01133" N	97°17'29.02802" W	351.034	376.640	5085066.452	632523.442
GCP080	21017DB	44°18'39.51405" N	97°19'52.45589" W	495.606	520.851	4907767.324	633091.225
GCP081	21017DC	43°05'48.72587" N	97°21'27.65707" W	390.906	416.702	4772880.875	633653.359
GCP082	21017DD	43°15'22.46285" N	97°20'20.11900" W	466.773	492.713	4790609.909	634828.944
GCP083	21017DE	44°11'21.78230" N	97°18'38.53673" W	505.660	531.175	4894295.128	635006.785

Station Name	GPSID	Latitude	Longitude	Ellipsoidal Height	NAVD 1988 Height	UTM Northing	UTM Easting
GCP084	21017DF	43°24'03.87465" N	97°19'11.69358" W	420.813	446.872	4806725.946	636048.024
GCP085	21017DG	45°32'01.63378" N	97°14'51.05038" W	563.862	589.142	5043743.847	636833.845
GCP086	21017DH	45°09'06.74842" N	97°14'14.94447" W	551.987	577.196	5001333.001	638545.620
GCP087	21017DI	43°51'46.40000" N	97°16'08.31756" W	473.496	499.369	4858100.685	639103.301
GCP088	21017DJ	42°53'17.58991" N	97°15'36.29313" W	330.996	356.608	4749870.262	642076.350
GCP089	21017DK	44°32'35.32498" N	97°11'22.36933" W	484.908	509.808	4933795.866	643821.173
GCP090	21017DL	44°23'54.32224" N	97°11'22.14848" W	517.795	542.861	4917720.420	644182.027
GCP091	21017DM	44°14'20.92372" N	97°11'22.99796" W	513.944	539.335	4900028.204	644553.896
GCP092	21017DN	43°31'25.70682" N	97°12'34.04788" W	414.560	440.703	4820542.703	644699.549
GCP093	21017DO	44°47'21.23815" N	97°10'05.35342" W	504.398	529.376	4961169.494	644906.063
GCP094	21017DP	43°42'10.12337" N	97°10'44.40574" W	423.343	449.382	4840476.939	646724.857
GCP095	21017DQ	44°38'13.31433" N	97°07'39.66807" W	509.781	534.696	4944335.560	648496.102
GCP096	21017DR	45°01'14.66958" N	97°06'23.89930" W	518.879	544.090	4986998.300	649172.005
GCP097	21017DS	43°03'12.97836" N	97°07'14.69944" W	418.611	444.506	4768481.323	653043.269
GCP098	21017DT	44°10'53.53303" N	97°04'11.60907" W	518.891	544.434	4893847.389	654273.012
GCP099	21017DU	44°01'19.63627" N	97°04'10.82848" W	493.367	519.164	4876141.191	654705.658
GCP100	21017DV	43°24'07.36085" N	97°04'57.05117" W	379.880	406.117	4807248.328	655269.898
GCP101	21017DW	43°15'25.78857" N	97°04'56.31157" W	374.798	400.979	4791158.431	655656.217
GCP102	21017DX	43°51'46.17345" N	97°01'44.39170" W	473.768	499.626	4858525.560	658388.271
GCP103	21017DY	43°29'21.61752" N	97°01'26.49420" W	430.954	457.220	4817053.819	659776.106
GCP104	21017DZ	45°06'25.16558" N	96°55'08.58306" W	544.744	570.140	4996942.292	663705.021
GCP105	21017EA	44°54'16.44262" N	96°55'24.42717" W	579.620	604.808	4974446.715	663935.376
GCP106	21017EB	43°09'21.75984" N	96°58'54.38152" W	355.688	381.868	4780120.628	664087.728
GCP107	21017EC	44°43'55.01020" N	96°55'30.84525" W	535.067	560.097	4955267.723	664284.279
GCP108	21017ED	44°36'06.08980" N	96°55'31.14879" W	482.141	507.098	4940798.523	664646.074
GCP109	21017EE	42°53'18.16484" N	96°57'15.27491" W	347.011	372.568	4750449.719	667050.473
GCP110	21017EF	44°10'51.94534" N	96°54'33.13870" W	483.504	509.102	4894112.624	667118.024
GCP111	21017EG	43°04'08.53764" N	96°51'53.66160" W	370.445	396.412	4770693.761	673835.803
GCP112	21017EH	42°45'17.24610" N	96°51'56.40416" W	323.525	349.074	4735794.252	674659.312
NVA001	21017EI	44°30'56.15212" N	98°42'03.10075" W	404.901	429.749	4929185.261	523774.513
NVA002	21017EJ	44°17'01.45973" N	98°40'47.16692" W	433.927	458.944	4903437.728	525551.601
NVA003	21017EK	44°35'24.29266" N	98°35'03.86894" W	386.142	410.882	4937499.259	532987.719
NVA004	21017EL	43°29'06.45116" N	98°38'53.32734" W	450.471	476.849	4814749.551	528452.353
NVA005	21017EM	43°22'11.99663" N	98°38'38.41350" W	462.283	488.776	4801965.427	528841.963
NVA006	21017EN	43°28'15.30137" N	98°32'57.15048" W	454.321	480.732	4813210.176	536461.447
NVA007	21017EO	44°33'38.28799" N	98°25'21.35170" W	375.135	399.837	4934306.588	545854.597
NVA008	21017EP	44°24'52.17249" N	98°26'17.03498" W	381.835	406.789	4918064.809	544737.804
NVA009	21017EQ	43°29'54.93825" N	98°30'36.40652" W	452.754	479.122	4816301.777	539605.537
NVA010	21017ER	43°18'43.13181" N	98°27'44.86564" W	463.228	489.852	4795600.982	543591.496
NVA011	21017ES	44°26'35.11130" N	98°20'11.44712" W	375.943	400.800	4921301.448	552797.027
NVA012	21017ET	44°23'59.10139" N	98°18'56.78611" W	374.279	399.238	4916501.432	554487.586
NVA013	21017EU	44°17'53.53805" N	98°16'30.38719" W	372.907	398.049	4905250.161	557825.768
NVA014	21017EV	43°17'00.32799" N	98°23'12.94406" W	434.273	460.907	4792471.833	549740.180
NVA015	21017EW	43°18'58.53641" N	98°20'31.73292" W	437.531	464.163	4796146.013	553344.672
NVA016	21017EX	44°26'16.28816" N	98°12'50.77581" W	366.272	391.134	4920806.939	562543.299
NVA017	21017EY	43°56'17.07001" N	98°16'17.27891" W	369.361	395.113	4865252.951	558470.314

Station Name	GPSID	Latitude	Longitude	Ellipsoidal Height	NAVD 1988 Height	UTM Northing	UTM Easting
NVA018	21017EZ	43°23'54.87506" N	98°19'53.99491" W	447.149	473.721	4805294.457	554121.501
NVA019	21017FA	44°15'13.33494" N	98°12'49.46668" W	372.640	397.868	4900352.384	562768.455
NVA020	21017FB	43°42'16.14920" N	98°15'38.29137" W	406.688	432.826	4839317.171	559571.315
NVA021	21017FC	44°32'43.61808" N	98°09'35.33699" W	363.909	388.539	4932800.890	566740.884
NVA022	21017FD	44°05'02.25390" N	98°11'29.30980" W	366.016	391.507	4881515.857	564731.368
NVA023	21017FE	43°49'09.86943" N	98°12'20.78289" W	379.081	405.082	4852121.735	563869.354
NVA024	21017FF	44°27'25.85245" N	98°07'03.55343" W	359.564	384.396	4923031.564	570195.919
NVA025	21017FG	43°58'02.60076" N	98°10'18.25577" W	368.789	394.464	4868584.246	566441.641
NVA026	21017FH	44°33'34.67034" N	98°05'55.74963" W	361.092	385.707	4934427.773	571568.825
NVA027	21017FI	45°42'16.52867" N	97°57'30.41582" W	373.734	398.888	5061753.901	581077.729
NVA028	21017FJ	45°48'19.65655" N	97°56'15.42913" W	371.034	396.315	5072981.902	582550.297
NVA029	21017FK	43°19'31.43198" N	98°13'36.74261" W	432.983	459.633	4797240.881	562682.870
NVA030	21017FL	44°23'04.08276" N	98°05'36.50461" W	369.634	394.634	4914975.817	572209.054
NVA031	21017FM	44°17'50.78420" N	98°05'39.07619" W	372.506	397.696	4905308.639	572258.975
NVA032	21017FN	43°17'50.52065" N	98°12'30.23885" W	418.334	444.988	4794141.940	564210.139
NVA033	21017FO	43°40'23.30224" N	98°09'55.70675" W	403.006	429.226	4835908.538	567273.704
NVA034	21017FP	43°46'14.92470" N	98°08'47.30535" W	373.723	399.810	4846771.960	568693.691
NVA035	21017FQ	44°31'43.95043" N	98°03'09.24040" W	378.942	403.624	4931053.071	575281.688
NVA036	21017FR	45°15'17.22552" N	97°57'38.34467" W	424.992	449.660	5011779.789	581552.683
NVA037	21017FS	45°25'02.14540" N	97°56'24.16873" W	410.585	435.436	5029851.081	582931.884
NVA038	21017FT	43°36'53.82951" N	98°08'46.27683" W	409.009	435.299	4829462.038	568894.890
NVA039	21017FU	45°55'19.44888" N	97°51'15.21720" W	372.318	397.764	5086027.111	588844.145
NVA040	21017FV	44°35'17.83894" N	98°01'05.60743" W	380.649	405.237	4937684.879	577931.145
NVA041	21017FW	45°33'31.90420" N	97°53'51.04409" W	385.345	410.314	5045627.049	586043.950
NVA042	21017FX	43°39'31.18225" N	98°07'35.03118" W	391.507	417.742	4834333.036	570440.725
NVA043	21017FY	44°27'23.20035" N	98°01'58.10228" W	375.417	400.274	4923026.046	576947.028
NVA044	21017FZ	43°53'40.75754" N	98°05'28.40674" W	373.525	399.332	4860573.849	572989.216
NVA045	21017GA	43°51'03.66633" N	98°05'10.77044" W	370.054	395.950	4855731.667	573436.251
NVA046	21017GB	44°51'48.97392" N	97°57'29.29249" W	413.970	438.467	4968326.635	582309.374
NVA047	21017GC	43°22'09.63021" N	98°07'51.58779" W	443.448	470.100	4802197.551	570405.465
NVA048	21017GD	45°37'53.66848" N	97°51'19.92606" W	379.755	404.780	5053751.149	589204.773
NVA049	21017GE	43°29'03.88731" N	98°06'47.36884" W	419.542	446.100	4814992.288	571714.742
NVA050	21017GF	44°47'28.04317" N	97°57'28.47882" W	415.542	440.059	4960275.404	582430.477
NVA051	21017GG	44°00'35.26719" N	98°03'04.03378" W	367.227	392.864	4873398.535	576063.178
NVA052	21017GH	44°16'02.96466" N	98°00'50.63228" W	373.954	399.246	4902055.693	578690.606
NVA053	21017GI	45°00'28.85824" N	97°55'19.90533" W	429.479	454.056	4984405.897	584935.609
NVA054	21017GJ	43°47'21.00603" N	98°04'04.98312" W	367.766	393.795	4848878.683	574982.414
NVA055	21017GK	43°23'53.84547" N	98°06'43.30843" W	431.538	458.182	4805428.672	571907.884
NVA056	21017GL	44°10'10.92915" N	98°00'36.22547" W	377.636	403.108	4891198.015	579140.898
NVA057	21017GM	45°47'28.27502" N	97°47'27.51941" W	383.339	408.677	5071558.135	593968.754
NVA058	21017GN	43°17'51.20315" N	98°05'27.62957" W	457.106	483.734	4794259.912	573732.087
NVA059	21017GO	44°07'34.08959" N	97°59'26.28093" W	377.434	402.955	4886377.911	580753.547
NVA060	21017GP	43°28'13.76265" N	98°03'25.27818" W	405.424	432.017	4813495.852	576271.754
NVA061	21017GQ	45°15'15.72131" N	97°50'16.54255" W	500.139	524.849	5011864.777	591182.810
NVA062	21017GR	45°53'34.86327" N	97°45'01.81956" W	369.978	395.480	5082920.148	596937.323
NVA063	21017GS	43°09'17.91259" N	98°04'58.88198" W	549.773	576.226	4778432.888	574553.395

Station Name	GPSID	Latitude	Longitude	Ellipsoidal Height	NAVD 1988 Height	UTM Northing	UTM Easting
NVA064	21017GT	44°42'12.81439" N	97°53'49.00912" W	428.502	453.042	4950612.224	587384.634
NVA065	21017GU	43°36'54.91854" N	98°01'34.53083" W	376.266	402.568	4829602.107	578571.759
NVA066	21017GV	45°06'30.45388" N	97°50'27.36066" W	519.933	544.571	4995652.396	591179.644
NVA067	21017GW	45°04'46.73878" N	97°50'26.92193" W	517.639	542.264	4992452.083	591235.098
NVA068	21017GX	45°41'22.42016" N	97°45'04.99282" W	396.019	421.124	5060314.644	597222.096
NVA069	21017GY	45°24'49.06906" N	97°47'11.68458" W	495.076	519.996	5029617.237	594945.439
NVA070	21017GZ	44°58'42.88365" N	97°50'25.93380" W	517.290	541.856	4981224.641	591417.466
NVA071	21017HA	44°45'41.29002" N	97°51'22.31514" W	450.994	475.546	4957089.521	590522.358
NVA072	21017HB	43°40'52.81107" N	97°59'11.14281" W	379.382	405.568	4836979.662	581696.060
NVA073	21017HC	43°39'31.37099" N	97°59'10.69637" W	379.807	406.025	4834467.308	581736.753
NVA074	21017HD	44°22'59.11887" N	97°53'36.24657" W	393.372	418.413	4915018.512	588147.805
NVA075	21017HE	44°57'51.55969" N	97°49'11.77592" W	530.610	555.176	4979664.356	593064.677
NVA076	21017HF	45°05'38.52177" N	97°48'01.01532" W	524.887	549.540	4994096.509	594401.323
NVA077	21017HG	44°16'03.02388" N	97°53'37.90548" W	386.948	412.247	4902179.791	588284.302
NVA078	21017HH	45°00'27.48193" N	97°48'00.42816" W	543.528	568.127	4984498.674	594556.433
NVA079	21017HI	43°52'46.92603" N	97°55'52.08090" W	376.201	402.032	4859066.920	585868.577
NVA080	21017HJ	43°33'25.18994" N	97°57'56.09997" W	374.901	401.331	4823191.133	583548.249
NVA081	21017HK	43°08'23.48022" N	98°00'36.81114" W	486.070	512.453	4776821.133	580491.955
NVA082	21017HL	43°50'00.67819" N	97°55'41.21619" W	372.099	398.009	4853941.046	586177.520
NVA083	21017HM	45°30'27.63818" N	97°42'50.37193" W	503.612	528.568	5040153.714	600457.883
NVA084	21017HN	45°50'56.04373" N	97°40'04.00303" W	376.689	402.154	5078122.491	603437.156
NVA085	21017HO	42°53'40.56837" N	98°00'39.09102" W	407.160	433.200	4749585.194	580761.252
NVA086	21017HP	44°54'27.53582" N	97°45'31.93953" W	532.446	557.025	4973440.654	597976.913
NVA087	21017HQ	45°34'22.34581" N	97°40'18.00331" W	532.120	557.113	5047450.696	603644.230
NVA088	21017HR	45°31'45.82944" N	97°40'22.10084" W	534.636	559.612	5042619.063	603635.308
NVA089	21017HS	42°51'03.90037" N	97°59'27.98458" W	417.179	443.146	4744771.687	582431.859
NVA090	21017HT	44°10'09.67614" N	97°49'50.54697" W	396.549	422.044	4891347.637	593480.115
NVA091	21017HU	45°15'15.78993" N	97°41'39.35910" W	530.080	554.861	5012039.340	602455.314
NVA092	21017HV	43°59'41.20981" N	97°51'03.03280" W	377.243	402.944	4871934.982	592140.989
NVA093	21017HW	43°03'11.97252" N	97°57'02.56824" W	426.949	453.167	4767270.754	585451.956
NVA094	21017HX	43°36'03.42331" N	97°53'13.03168" W	376.140	402.437	4828154.683	589833.741
NVA095	21017HY	44°30'47.91159" N	97°46'23.58387" W	448.982	473.775	4929619.363	597504.380
NVA096	21017HZ	44°20'22.89414" N	97°47'35.66936" W	417.293	442.436	4910310.984	596197.253
NVA097	21017IA	44°18'38.77710" N	97°47'35.37677" W	415.360	440.562	4907098.642	596251.018
NVA098	21017IB	44°53'30.37048" N	97°43'05.21577" W	520.615	545.224	4971726.716	601222.178
NVA099	21017IC	43°48'14.89257" N	97°50'47.19712" W	373.332	399.280	4850765.734	592789.332
NVA100	21017ID	43°19'40.59991" N	97°53'45.07013" W	395.685	422.175	4797825.407	589517.440
NVA101	21017IE	44°04'54.66866" N	97°48'18.37149" W	390.819	416.446	4881658.122	595668.221
NVA102	21017IF	45°25'40.08502" N	97°37'57.48925" W	516.188	541.178	5031384.815	606964.093
NVA103	21017IG	45°15'07.41683" N	97°39'11.74092" W	530.648	555.458	5011833.860	605677.114
NVA104	21017IH	43°22'12.59973" N	97°52'37.37662" W	381.207	407.689	4802534.781	590978.851
NVA105	21017II	44°01'25.66043" N	97°47'27.45537" W	389.520	415.206	4875226.184	596895.230
NVA106	21017IJ	44°34'23.30031" N	97°42'53.30335" W	505.909	530.614	4936336.595	602042.324
NVA107	21017IK	44°05'45.80899" N	97°46'14.21177" W	393.474	419.085	4883276.596	598405.988
NVA108	21017IL	43°43'53.26411" N	97°48'30.27948" W	384.792	410.830	4842737.525	595964.744
NVA109	21017IM	43°09'17.95359" N	97°52'21.24366" W	419.227	445.486	4778642.973	591664.232

Station Name	GPSID	Latitude	Longitude	Ellipsoidal Height	NAVD 1988 Height	UTM Northing	UTM Easting
NVA110	21017IN	44°36'59.83085" N	97°41'41.60691" W	528.235	552.887	4941191.516	603546.347
NVA111	21017IO	44°54'22.25208" N	97°39'24.75883" W	519.051	543.725	4973405.824	606031.262
NVA112	21017IP	45°46'33.35686" N	97°32'28.46644" W	525.898	551.100	5070187.246	613409.873
NVA113	21017IQ	44°49'07.83156" N	97°39'46.64305" W	526.162	550.800	4963695.857	605711.103
NVA114	21017IR	43°04'06.75162" N	97°52'17.84109" W	432.250	458.405	4769044.124	591870.301
NVA115	21017IS	44°29'56.39189" N	97°41'36.73099" W	481.048	505.862	4928127.888	603862.869
NVA116	21017IT	43°18'50.51310" N	97°50'13.02815" W	376.143	402.544	4796345.124	594314.293
NVA117	21017IU	45°14'22.51720" N	97°35'49.01040" W	527.920	552.782	5010523.633	610120.108
NVA118	21017IV	45°18'43.53705" N	97°34'16.47150" W	531.764	556.702	5018613.855	611994.869
NVA119	21017IW	43°52'43.21391" N	97°45'02.18590" W	386.059	411.919	4859155.793	600373.184
NVA120	21017IX	42°57'58.21834" N	97°51'09.23973" W	396.066	422.117	4757696.918	593577.152
NVA121	21017IY	44°59'33.97285" N	97°35'45.16099" W	538.422	563.200	4983106.216	610680.224
NVA122	21017IZ	45°46'32.65229" N	97°28'56.37029" W	549.576	574.774	5070250.777	617990.596
NVA123	21017JA	44°44'47.85902" N	97°36'50.71450" W	516.146	540.803	4955738.743	609711.569
NVA124	21017JB	43°38'41.54077" N	97°44'48.11813" W	385.041	411.146	4833193.915	601080.048
NVA125	21017JC	43°29'59.36716" N	97°45'32.93698" W	374.142	400.384	4817069.657	600316.467
NVA126	21017JD	45°51'19.75119" N	97°27'21.74469" W	552.822	578.171	5079150.275	619862.826
NVA127	21017JE	44°02'16.60869" N	97°41'28.17151" W	407.282	432.966	4876920.226	604868.601
NVA128	21017JF	44°56'05.21203" N	97°34'31.32366" W	542.183	566.954	4976692.618	612410.170
NVA129	21017JG	45°24'47.73415" N	97°30'35.87574" W	536.212	561.240	5029939.773	616590.073
NVA130	21017JH	43°08'25.72291" N	97°47'39.91578" W	398.036	424.208	4777120.250	598041.077
NVA131	21017JI	45°28'16.82310" N	97°29'21.89182" W	539.394	564.474	5036422.220	618076.876
NVA132	21017JJ	43°16'13.80120" N	97°45'25.63017" W	372.434	398.681	4791604.010	600860.103
NVA133	21017JK	45°55'17.03606" N	97°25'01.44833" W	433.226	458.812	5086532.632	622742.973
NVA134	21017JL	43°44'44.00949" N	97°41'12.30014" W	394.229	420.218	4844451.154	605737.982
NVA135	21017JM	42°57'06.43618" N	97°46'28.15389" W	381.468	407.448	4756189.477	599968.151
NVA136	21017JN	44°43'03.14439" N	97°33'09.35792" W	520.422	545.128	4952592.384	614636.544
NVA137	21017JO	42°54'29.02885" N	97°46'24.21407" W	366.144	392.097	4751335.252	600128.235
NVA138	21017JP	45°07'21.43910" N	97°29'39.45091" W	528.783	553.733	4997675.035	618419.393
NVA139	21017JQ	43°52'41.72272" N	97°39'01.85729" W	397.856	423.749	4859236.215	608415.084
NVA140	21017JR	44°29'04.48723" N	97°34'20.34815" W	511.564	536.443	4926687.558	613527.574
NVA141	21017JS	45°48'00.85834" N	97°23'34.42717" W	552.618	577.893	5073108.847	624888.376
NVA142	21017JT	44°07'28.48726" N	97°36'36.81850" W	438.519	464.113	4886648.762	611190.726
NVA143	21017JU	45°31'46.12221" N	97°24'25.22056" W	542.448	567.623	5043005.619	624390.314
NVA144	21017JV	44°34'22.31306" N	97°31'57.70667" W	530.924	555.668	4936549.931	616502.180
NVA145	21017JW	42°55'22.38075" N	97°44'01.93847" W	372.773	398.695	4753028.778	603329.615
NVA146	21017JX	43°11'52.71441" N	97°41'47.78088" W	373.847	399.968	4783624.676	605896.382
NVA147	21017JY	43°01'39.38004" N	97°42'52.72610" W	398.220	424.224	4764681.938	604720.780
NVA148	21017JZ	43°20'35.15243" N	97°40'32.69675" W	376.330	402.480	4799767.826	607335.568
NVA149	21017KA	44°46'30.69673" N	97°29'29.57232" W	515.364	540.131	4959084.466	619353.218
NVA150	21017KB	45°11'42.07350" N	97°25'58.52258" W	536.671	561.697	5005809.530	623089.859
NVA151	21017KC	45°22'11.88972" N	97°24'26.60719" W	526.225	551.296	5025284.288	624711.351
NVA152	21017KD	45°27'56.78118" N	97°23'12.20469" W	533.509	558.632	5035959.764	626116.228
NVA153	21017KE	43°17'05.86963" N	97°39'30.16522" W	373.676	399.774	4793334.154	608847.202
NVA154	21017KF	45°03'01.30682" N	97°25'57.53780" W	513.717	538.721	4989740.013	623422.933
NVA155	21017KG	44°51'43.28713" N	97°27'05.32707" W	516.822	541.666	4968789.555	622339.740

Station Name	GPSID	Latitude	Longitude	Ellipsoidal Height	NAVD 1988 Height	UTM Northing	UTM Easting
NVA156	21017KH	45°27'25.60840" N	97°21'43.68229" W	539.107	564.238	5035036.661	628058.090
NVA157	21017KI	45°47'25.20924" N	97°18'39.15774" W	545.038	570.401	5072140.136	631285.323
NVA158	21017KJ	44°16'03.09323" N	97°30'41.85667" W	496.413	521.749	4902664.154	618791.866
NVA159	21017KK	44°14'18.60998" N	97°30'42.03336" W	498.373	523.778	4899440.375	618846.397
NVA160	21017KL	44°31'41.57674" N	97°28'16.80645" W	531.015	555.842	4931679.773	621467.054
NVA161	21017KM	43°54'23.97942" N	97°33'01.14740" W	424.857	450.722	4862527.357	616409.457
NVA162	21017KN	44°29'04.58486" N	97°28'16.37751" W	537.439	562.347	4926835.948	621567.146
NVA163	21017KO	45°40'38.30944" N	97°18'19.21310" W	545.602	570.940	5059591.818	631981.975
NVA164	21017KP	43°38'38.68177" N	97°34'05.04191" W	408.467	434.442	4833338.764	615488.596
NVA165	21017KQ	45°35'16.03147" N	97°18'37.72754" W	539.711	564.997	5049637.615	631791.160
NVA166	21017KR	42°56'15.63920" N	97°38'07.27486" W	402.099	427.908	4754797.370	611343.164
NVA167	21017KS	44°04'49.82270" N	97°29'25.04953" W	468.188	493.853	4881922.550	620876.219
NVA168	21017KT	45°18'42.86818" N	97°19'30.85450" W	525.624	550.764	5018964.603	631278.619
NVA169	21017KU	44°19'27.32064" N	97°27'05.56414" W	492.917	518.127	4909054.125	623468.219
NVA170	21017KV	43°59'09.24963" N	97°29'24.28798" W	455.420	481.188	4871415.253	621085.673
NVA171	21017KW	44°06'34.70269" N	97°28'15.94197" W	476.941	502.569	4885186.777	622353.122
NVA172	21017KX	45°26'44.61119" N	97°17'19.41662" W	545.585	570.756	5033891.083	633824.408
NVA173	21017KY	45°08'14.99295" N	97°19'50.77471" W	527.522	552.663	4999580.172	631245.698
NVA174	21017KZ	44°40'25.40503" N	97°23'26.42993" W	523.113	547.900	4947965.927	627557.446
NVA175	21017LA	42°58'51.79328" N	97°36'11.29864" W	384.927	410.763	4759657.444	613891.669
NVA176	21017LB	43°33'43.23347" N	97°31'39.86952" W	396.669	422.677	4824280.930	618902.546
NVA177	21017LC	45°03'53.76073" N	97°19'50.68209" W	517.206	542.318	4991519.081	631414.127
NVA178	21017LD	45°20'52.90442" N	97°16'50.25111" W	527.118	552.290	5023051.083	634689.923
NVA179	21017LE	44°39'33.10079" N	97°22'13.31125" W	520.995	545.785	4946384.031	629199.588
NVA180	21017LF	43°34'34.78704" N	97°30'27.27426" W	407.320	433.318	4825900.420	620502.600
NVA181	21017LG	45°30'54.69289" N	97°14'49.55947" W	547.642	572.903	5041678.745	636911.292
NVA182	21017LH	45°00'23.77613" N	97°18'37.34674" W	531.204	556.276	4985072.708	633153.092
NVA183	21017LI	45°16'58.79087" N	97°16'03.31009" W	542.256	567.439	5015848.429	635866.723
NVA184	21017LJ	45°24'48.64726" N	97°14'50.98735" W	554.799	579.990	5030381.938	637126.678
NVA185	21017LK	44°47'22.31821" N	97°19'47.88794" W	501.814	526.725	4960927.154	632105.147
NVA186	21017LL	42°57'59.71913" N	97°33'22.77075" W	415.567	441.325	4758115.615	617736.197
NVA187	21017LM	42°56'30.58360" N	97°33'22.03028" W	422.002	447.718	4755366.320	617800.197
NVA188	21017LN	43°50'55.33061" N	97°25'46.61291" W	448.576	474.481	4856267.321	626224.409
NVA189	21017LO	43°43'02.22309" N	97°25'00.36472" W	421.887	447.849	4841690.931	627536.159
NVA190	21017LP	43°30'51.44515" N	97°24'28.81360" W	417.555	443.578	4819159.459	628674.393
NVA191	21017LQ	42°57'08.41228" N	97°28'36.19848" W	402.939	428.626	4756647.526	624256.894
NVA192	21017LR	43°46'29.07702" N	97°22'08.08379" W	452.106	478.046	4848147.407	631265.543
NVA193	21017LS	44°12'36.53690" N	97°18'39.71932" W	501.429	526.902	4896601.040	634933.118
NVA194	21017LT	44°57'02.16319" N	97°12'10.34557" W	500.893	525.999	4979033.786	641762.769
NVA195	21017LU	44°54'44.15509" N	97°11'55.35336" W	499.858	524.944	4974782.523	642185.865
NVA196	21017LV	43°25'46.78931" N	97°22'46.81141" W	414.684	440.722	4809805.047	631147.455
NVA197	21017LW	44°01'46.40289" N	97°17'19.88888" W	530.638	556.351	4876578.951	637121.888
NVA198	21017LX	44°09'11.71710" N	97°16'11.86972" W	516.091	541.663	4890349.900	638347.239
NVA199	21017LY	45°00'22.05166" N	97°08'48.99506" W	515.549	540.727	4985301.171	646033.702
NVA200	21017LZ	44°39'33.20451" N	97°11'19.48032" W	498.583	523.476	4946691.230	643598.618
NVA201	21017MA	43°29'15.66172" N	97°20'23.56096" W	403.689	429.749	4816312.153	634239.745

Station Name	GPSID	Latitude	Longitude	Ellipsoidal Height	NAVD 1988 Height	UTM Northing	UTM Easting
NVA202	21017MB	42°55'18.50843" N	97°22'38.54638" W	365.328	390.964	4753408.924	632426.470
NVA203	21017MC	43°49'58.27867" N	97°14'55.51399" W	470.520	496.410	4854799.164	640799.092
NVA204	21017MD	43°57'25.16756" N	97°13'46.25568" W	513.946	539.749	4868619.596	642050.382
NVA205	21017ME	44°49'40.73817" N	97°06'30.05769" W	520.167	545.208	4965582.336	649536.641
NVA206	21017MF	43°45'37.44276" N	97°14'58.20266" W	444.285	470.245	4846750.663	640909.257
NVA207	21017MG	44°46'29.97385" N	97°05'17.12957" W	516.902	541.897	4959733.474	651276.505
NVA208	21017MH	44°09'09.39168" N	97°08'59.06648" W	502.642	528.240	4890487.461	647962.936
NVA209	21017MI	45°02'53.95781" N	97°01'28.39544" W	539.716	564.978	4990216.621	655564.410
NVA210	21017MJ	42°58'31.49336" N	97°17'55.25056" W	358.800	384.471	4759488.924	638728.482
NVA211	21017MK	43°19'40.59912" N	97°14'24.98847" W	412.234	438.306	4798737.063	642668.495
NVA212	21017ML	43°06'41.94250" N	97°15'32.94599" W	465.494	491.354	4774684.313	641637.963
NVA213	21017MM	43°45'37.01255" N	97°10'08.39401" W	494.964	520.930	4846877.521	647389.817
NVA214	21017MN	45°01'14.61796" N	96°59'03.13472" W	588.846	614.098	4987229.570	658818.285
NVA215	21017MO	43°14'34.42523" N	97°13'17.89477" W	375.654	401.705	4789323.864	644380.584
NVA216	21017MP	44°47'22.99838" N	97°00'21.59376" W	515.254	540.304	4961525.630	657731.893
NVA217	21017MQ	44°37'00.35425" N	97°01'37.48451" W	483.539	508.475	4942272.515	656529.881
NVA218	21017MR	44°58'36.97593" N	96°56'37.20342" W	563.144	588.383	4982445.428	662135.529
NVA219	21017MS	44°45'38.99715" N	96°57'55.94167" W	508.305	533.347	4958395.808	661012.625
NVA220	21017MT	44°04'48.02818" N	97°01'44.30186" W	491.614	517.361	4882647.932	657813.898
NVA221	21017MU	42°56'51.82410" N	97°09'38.76959" W	335.565	361.230	4756651.292	650041.565
NVA222	21017MV	43°57'51.28452" N	97°00'32.94294" W	477.441	503.265	4869828.349	659711.598
NVA223	21017MW	43°05'53.05009" N	97°07'15.19705" W	381.626	407.632	4773419.012	652921.367
NVA224	21017MX	43°26'44.93908" N	97°03'45.26672" W	404.732	430.987	4812146.960	656771.562
NVA225	21017MY	43°25'38.43740" N	97°02'34.28850" W	397.925	424.188	4810132.677	658415.180
NVA226	21017MZ	42°52'52.05995" N	97°06'07.94736" W	326.285	351.879	4749361.347	654985.935
NVA227	21017NA	44°10'02.84632" N	96°55'43.84060" W	481.662	507.278	4892557.983	665586.394
NVA228	21017NB	43°18'06.18562" N	97°01'27.09908" W	359.783	386.016	4796216.458	660256.383
NVA229	21017NC	43°53'37.56100" N	96°55'40.55955" W	460.644	486.475	4862160.768	666423.699
NVA230	21017ND	44°01'20.99485" N	96°54'32.06564" W	484.823	510.651	4876497.471	667589.475
NVA231	21017NE	43°14'29.27673" N	97°00'14.27107" W	354.650	380.879	4789563.976	662057.121
NVA232	21017NF	43°08'28.50798" N	96°58'53.61222" W	353.878	380.038	4778478.290	664144.697
NVA233	21017NG	43°04'09.89879" N	96°57'50.57279" W	336.987	362.977	4770535.016	665762.568
NVA234	21017NH	42°47'33.37898" N	96°57'21.74152" W	344.659	370.262	4739810.408	667161.888
NVA235	21017NI	42°56'20.23472" N	96°54'16.15433" W	345.793	371.370	4756166.154	670973.584
NVA236	21017NJ	42°45'17.20691" N	96°53'17.48829" W	321.212	346.772	4735746.656	672816.115
NVA237	21017NK	42°51'57.42118" N	96°50'43.55737" W	348.553	374.082	4748180.718	675999.679
NVA238	21017NL	42°53'16.89818" N	96°49'31.93998" W	354.980	380.505	4750674.191	677561.451
VVANF001	21017NM	44°24'51.74501" N	98°40'49.63655" W	409.683	434.634	4917947.729	525440.295
VVANF002	21017NN	44°29'12.11675" N	98°39'37.84064" W	404.672	429.572	4925987.791	526994.727
VVANF003	21017NO	44°14'39.32065" N	98°40'49.74063" W	454.167	479.199	4899052.001	525511.627
VVANF004	21017NP	44°19'38.82785" N	98°38'23.81097" W	407.506	432.541	4908306.309	528707.657
VVANF005	21017NQ	44°23'59.08004" N	98°31'08.61770" W	384.908	409.908	4916385.602	538299.080
VVANF006	21017NR	43°25'41.18374" N	98°35'21.01800" W	459.061	485.529	4808439.045	533252.539
VVANF007	21017NS	44°31'48.71373" N	98°26'15.37153" W	384.138	408.888	4930917.340	544686.209
VVANF008	21017NT	44°18'44.66911" N	98°26'17.06370" W	379.370	404.470	4906725.792	544814.928
VVANF009	21017NU	44°12'39.98629" N	98°20'07.77176" W	383.720	408.952	4895535.167	553087.093

Station Name	GPSID	Latitude	Longitude	Ellipsoidal Height	NAVD 1988 Height	UTM Northing	UTM Easting
VVANF010	21017NV	44°18'46.48479" N	98°18'56.01383" W	373.757	398.873	4906856.055	554585.228
VVANF011	21017NW	44°35'20.35801" N	98°16'52.05424" W	369.819	394.411	4937545.171	557061.880
VVANF012	21017NX	43°18'44.50723" N	98°25'24.53755" W	442.021	468.654	4795664.493	546752.288
VVANF013	21017NY	43°47'24.21550" N	98°18'21.71181" W	388.700	414.723	4848789.682	555834.215
VVANF014	21017NZ	44°13'33.14620" N	98°15'16.32784" W	372.419	397.666	4897230.826	559539.793
VVANF015	21017OA	44°30'55.65661" N	98°12'40.43801" W	363.904	388.583	4929428.998	562688.684
VVANF016	21017OB	44°09'21.69918" N	98°15'04.17808" W	370.454	395.813	4889475.313	559880.029
VVANF017	21017OC	43°32'31.37309" N	98°18'11.40829" W	483.272	509.611	4821247.012	556295.800
VVANF018	21017OD	43°40'28.04469" N	98°15'57.43641" W	412.361	438.524	4835978.275	559172.348
VVANF019	21017OE	44°30'02.36232" N	98°08'09.13157" W	356.093	380.814	4927845.180	568695.680
VVANF020	21017OF	44°24'48.72439" N	98°06'48.32744" W	369.900	394.836	4918187.078	570584.921
VVANF021	21017OG	44°32'42.66774" N	98°04'44.59302" W	374.718	399.361	4932840.736	573156.652
VVANF022	21017OH	43°36'51.77855" N	98°11'10.68347" W	415.144	441.422	4829366.273	565658.747
VVANF023	21017OI	43°51'04.02254" N	98°09'04.04193" W	369.092	395.011	4855687.155	568228.038
VVANF024	21017OJ	43°20'22.64551" N	98°12'29.21574" W	426.158	452.808	4798835.005	564188.691
VVANF025	21017OK	44°09'19.81529" N	98°06'36.98768" W	373.108	398.555	4889529.416	571146.478
VVANF026	21017OL	44°15'12.87306" N	98°03'47.90078" W	370.322	395.636	4900464.151	574778.133
VVANF027	21017OM	45°19'16.90813" N	97°56'22.79238" W	420.925	445.730	5019197.614	583102.125
VVANF028	21017ON	44°25'38.39571" N	98°01'59.82808" W	375.015	399.935	4919791.885	576947.095
VVANF029	21017OO	45°50'58.20050" N	97°51'15.86312" W	370.037	395.425	5077964.208	588945.988
VVANF030	21017OP	44°06'42.89096" N	98°03'03.94839" W	370.998	396.510	4884740.721	575934.437
VVANF031	21017OQ	45°21'21.10640" N	97°52'41.47481" W	458.980	483.844	5023095.543	587866.909
VVANF032	21017OR	44°20'23.48633" N	97°59'35.21543" W	377.493	402.603	4910114.110	580263.953
VVANF033	21017OS	43°31'40.00193" N	98°05'01.55363" W	403.211	429.704	4819834.117	574038.611
VVANF034	21017OT	43°49'06.17453" N	98°02'54.38359" W	370.995	396.954	4852141.215	576522.970
VVANF035	21017OU	45°27'26.04689" N	97°50'16.83939" W	432.195	457.104	5034402.130	590851.096
VVANF036	21017OV	43°38'38.89636" N	98°02'45.87582" W	376.669	402.915	4832791.303	576935.768
VVANF037	21017OW	44°17'46.58915" N	97°57'14.03238" W	379.266	404.490	4905312.351	583451.947
VVANF038	21017OX	43°06'39.12729" N	98°05'18.42180" W	498.817	525.210	4773529.905	574165.383
VVANF039	21017OY	43°51'55.36652" N	97°59'38.57316" W	344.624	370.480	4857412.783	580833.605
VVANF040	21017OZ	44°38'45.51715" N	97°52'35.19254" W	429.450	454.010	4944238.086	589097.225
VVANF041	21017PA	44°19'25.59285" N	97°54'50.15024" W	384.161	409.324	4908408.446	586599.861
VVANF042	21017PB	43°31'41.07269" N	98°00'16.60172" W	388.770	415.267	4819940.643	580434.425
VVANF043	21017PC	43°57'57.91750" N	97°55'53.14081" W	372.341	398.054	4868661.310	585720.779
VVANF044	21017PD	45°42'14.82217" N	97°42'36.86684" W	413.801	438.940	5061982.623	600399.831
VVANF045	21017PE	44°32'39.64887" N	97°51'12.93639" W	425.343	450.074	4932974.267	591067.739
VVANF046	21017PF	44°00'32.57871" N	97°55'06.28428" W	375.398	401.076	4873446.568	586702.337
VVANF047	21017PG	43°43'52.64954" N	97°56'54.13634" W	352.615	378.716	4842566.012	584693.211
VVANF048	21017PH	44°37'51.50765" N	97°50'12.04956" W	444.814	469.400	4942615.810	592274.099
VVANF049	21017PI	42°51'57.06470" N	98°01'48.22854" W	415.553	441.555	4746374.226	579229.987
VVANF050	21017PJ	44°48'17.39662" N	97°47'45.09269" W	525.158	549.713	4961975.329	595226.418
VVANF051	21017PK	44°10'08.91163" N	97°52'11.89493" W	387.517	413.012	4891280.157	590341.486
VVANF052	21017PL	43°13'33.90437" N	97°58'34.54885" W	460.109	486.585	4786430.304	583136.761
VVANF053	21017PM	45°44'49.56880" N	97°38'51.28527" W	436.802	462.016	5066838.822	605196.899
VVANF054	21017PN	45°00'27.44011" N	97°44'19.23991" W	522.027	546.673	4984570.940	599398.316
VVANF055	21017PO	43°04'57.21914" N	97°58'13.11666" W	430.219	456.490	4770497.576	583816.171

Station Name	GPSID	Latitude	Longitude	Ellipsoidal Height	NAVD 1988 Height	UTM Northing	UTM Easting
VVANF056	21017PP	43°52'45.48476" N	97°52'13.16691" W	375.833	401.666	4859087.429	590754.404
VVANF057	21017PQ	43°26'31.90557" N	97°55'02.41401" W	379.300	405.835	4810491.027	587610.893
VVANF058	21017PR	43°23'42.38760" N	97°55'01.01801" W	385.062	411.600	4805261.919	587710.225
VVANF059	21017PS	42°59'45.16211" N	97°57'04.47178" W	414.379	440.523	4760890.683	585488.579
VVANF060	21017PT	43°17'02.30335" N	97°54'53.41801" W	404.285	430.768	4792921.976	588041.644
VVANF061	21017PU	44°42'12.27558" N	97°44'10.72815" W	525.164	549.735	4950780.509	600110.422
VVANF062	21017PV	43°34'19.65954" N	97°51'58.84572" W	374.420	400.753	4824976.037	591540.629
VVANF063	21017PW	45°09'19.82769" N	97°39'28.44835" W	522.228	546.993	5001101.659	605491.268
VVANF064	21017PX	45°35'16.18327" N	97°35'53.04728" W	526.980	552.051	5049209.881	609357.783
VVANF065	21017PY	44°22'07.05568" N	97°45'08.17418" W	430.868	455.956	4913573.712	599414.341
VVANF066	21017PZ	42°50'26.32497" N	97°55'53.20198" W	391.832	417.789	4743672.734	587321.287
VVANF067	21017QA	45°33'30.75583" N	97°35'32.88434" W	525.734	550.794	5045963.987	609851.764
VVANF068	21017QB	45°55'16.24051" N	97°32'34.02866" W	399.571	425.167	5086322.244	612995.213
VVANF069	21017QC	42°52'24.20734" N	97°54'44.29922" W	383.238	409.236	4747328.995	588838.417
VVANF070	21017QD	44°03'09.01855" N	97°46'15.66776" W	392.222	417.882	4878438.687	598445.801
VVANF071	21017QE	43°26'32.15790" N	97°50'18.70934" W	373.840	400.266	4810584.700	593988.015
VVANF072	21017QF	44°13'25.72430" N	97°42'49.25488" W	418.576	443.956	4897536.119	602741.190
VVANF073	21017QG	45°37'00.31960" N	97°31'42.68747" W	530.534	555.663	5052520.785	614723.593
VVANF074	21017QH	45°12'34.20030" N	97°34'33.23283" W	538.874	563.744	5007210.056	611831.173
VVANF075	21017QI	43°57'03.10770" N	97°43'49.29988" W	393.730	419.501	4867198.825	601876.462
VVANF076	21017QJ	44°33'31.55760" N	97°39'14.29450" W	521.031	545.760	4934817.907	606898.928
VVANF077	21017QK	43°10'34.68555" N	97°48'52.96186" W	397.008	423.243	4781074.950	596334.673
VVANF078	21017QL	43°06'42.31338" N	97°48'47.63277" W	408.500	434.650	4773908.444	596556.533
VVANF079	21017QM	44°12'34.61456" N	97°39'11.19827" W	435.880	461.302	4896036.752	607605.039
VVANF080	21017QN	44°57'48.24418" N	97°33'18.00195" W	542.586	567.394	4979900.348	613960.576
VVANF081	21017QO	43°02'19.67903" N	97°47'32.44769" W	407.960	434.021	4765831.066	598372.392
VVANF082	21017QP	45°46'19.54964" N	97°25'26.03612" W	542.282	567.510	5069934.312	622540.842
VVANF083	21017QQ	43°29'59.83933" N	97°41'11.05580" W	379.111	405.241	4817174.482	606197.336
VVANF084	21017QR	45°15'14.23988" N	97°26'51.53966" W	532.788	557.809	5012334.369	621807.142
VVANF085	21017QS	45°48'21.22799" N	97°21'12.19592" W	542.932	568.252	5073800.002	627945.626
VVANF086	21017QT	45°20'25.95787" N	97°24'52.44080" W	534.183	559.246	5022004.202	624213.801
VVANF087	21017QU	45°38'41.59861" N	97°22'20.01447" W	534.798	560.058	5055881.930	626845.813
VVANF088	21017QV	45°54'23.79160" N	97°20'00.07773" W	362.649	388.226	5085021.668	629268.582
VVANF089	21017QW	44°17'47.63505" N	97°32'30.63608" W	503.454	528.717	4905846.388	616322.849
VVANF090	21017QX	43°41'15.74942" N	97°36'24.07223" W	400.970	426.947	4838131.413	612292.437
VVANF091	21017QY	44°35'14.59625" N	97°29'33.75802" W	535.713	560.456	4938221.006	619647.217
VVANF092	21017QZ	43°20'33.30623" N	97°38'18.12567" W	369.622	395.732	4799759.625	610366.392
VVANF093	21017RA	44°28'11.36054" N	97°29'27.87290" W	517.034	541.970	4925164.371	620018.217
VVANF094	21017RB	42°56'14.78856" N	97°40'29.32260" W	386.570	412.432	4754719.641	608124.131
VVANF095	21017RC	45°21'18.68667" N	97°20'44.61452" W	528.065	553.184	5023739.867	629573.806
VVANF096	21017RD	44°51'43.14591" N	97°24'38.21329" W	512.053	536.934	4968847.576	625568.336
VVANF097	21017RE	43°32'30.87859" N	97°34'02.47970" W	390.673	416.703	4821992.861	615741.674
VVANF098	21017RF	43°22'51.20821" N	97°34'47.11047" W	387.491	413.571	4804092.980	615045.066
VVANF099	21017RG	44°22'07.72344" N	97°27'03.56736" W	495.415	520.550	4914004.080	623418.896
VVANF100	21017RH	45°49'08.79754" N	97°15'14.07019" W	377.264	402.774	5075432.207	635643.253
VVANF101	21017RI	44°24'42.33549" N	97°25'51.55798" W	504.859	529.930	4918804.896	624921.225

Station Name	GPSID	Latitude	Longitude	Ellipsoidal Height	NAVD 1988 Height	UTM Northing	UTM Easting
VVANF102	21017RJ	43°56'07.37851" N	97°29'25.42909" W	443.670	469.501	4865803.635	621162.903
VVANF103	21017RK	43°45'40.20285" N	97°30'32.54504" W	422.757	448.690	4846426.957	620015.440
VVANF104	21017RL	45°24'48.74399" N	97°17'13.55016" W	553.964	579.124	5030318.166	634028.017
VVANF105	21017RM	44°56'03.88484" N	97°21'02.14576" W	509.975	534.959	4976987.787	630146.557
VVANF106	21017RN	43°19'41.05869" N	97°32'22.60578" W	396.723	422.743	4798283.161	618399.271
VVANF107	21017RO	43°53'31.56961" N	97°26'58.10597" W	454.320	480.196	4861057.470	624537.726
VVANF108	21017RP	45°23'57.57153" N	97°14'49.73279" W	552.452	577.642	5028806.355	637188.294
VVANF109	21017RQ	45°13'25.85045" N	97°16'06.78157" W	543.623	568.805	5009275.705	635932.173
VVANF110	21017RR	45°11'47.50649" N	97°16'09.18099" W	539.676	564.862	5006239.821	635944.928
VVANF111	21017RS	44°04'51.19455" N	97°24'38.66649" W	493.981	519.632	4882084.734	627244.769
VVANF112	21017RT	43°34'21.34240" N	97°28'05.24292" W	412.770	438.769	4825543.615	623695.845
VVANF113	21017RU	44°23'51.67566" N	97°21'01.07976" W	498.382	523.485	4917368.118	631376.994
VVANF114	21017RV	44°25'35.59364" N	97°20'24.78726" W	511.968	537.015	4920590.702	632114.819
VVANF115	21017RW	43°10'08.50226" N	97°29'54.12679" W	374.080	399.925	4780679.827	622060.384
VVANF116	21017RX	43°59'35.77700" N	97°23'22.99856" W	482.203	507.959	4872385.918	629117.836
VVANF117	21017RY	44°35'13.58280" N	97°18'39.13676" W	493.007	517.858	4938472.455	634082.154
VVANF118	21017RZ	44°57'47.71077" N	97°14'55.88309" W	510.618	535.699	4980359.890	638105.154
VVANF119	21017SA	43°27'30.27852" N	97°26'27.93526" W	411.484	437.512	4812902.820	626116.114
VVANF120	21017SB	43°08'49.68212" N	97°27'30.65618" W	378.871	404.693	4778307.227	625344.645
VVANF121	21017SC	43°16'14.52877" N	97°26'20.42038" W	442.738	468.646	4792059.512	626675.067
VVANF122	21017SD	44°42'09.59793" N	97°14'56.47309" W	493.129	518.004	4951412.461	638716.129
VVANF123	21017SE	43°51'46.32985" N	97°20'57.95964" W	471.141	497.028	4857966.274	632637.893
VVANF124	21017SF	43°00'46.35638" N	97°26'20.85317" W	388.847	414.608	4763426.809	627198.825
VVANF125	21017SG	43°43'01.09522" N	97°20'55.68865" W	444.197	470.176	4841762.963	633011.840
VVANF126	21017SH	45°04'44.26405" N	97°09'54.21320" W	518.181	543.407	4993359.968	644422.592
VVANF127	21017SI	44°10'55.71924" N	97°16'12.24865" W	507.948	533.474	4893558.553	638271.296
VVANF128	21017SJ	43°36'04.74370" N	97°19'38.42502" W	430.610	456.649	4828952.788	634999.690
VVANF129	21017SK	43°40'24.57458" N	97°18'41.95963" W	447.401	473.417	4836994.408	636102.571
VVANF130	21017SL	43°36'56.93694" N	97°18'23.66032" W	439.966	466.010	4830596.954	636643.055
VVANF131	21017SM	44°27'22.33627" N	97°11'19.99113" W	496.253	521.216	4924139.710	644087.686
VVANF132	21017SN	44°06'34.34990" N	97°13'11.18228" W	523.618	549.255	4885580.266	642466.018
VVANF133	21017SO	44°38'39.90810" N	97°08'39.67446" W	491.502	516.413	4945125.905	647155.415
VVANF134	21017SP	44°53'08.58927" N	97°06'30.64875" W	497.172	522.281	4971995.679	649374.266
VVANF135	21017SQ	43°40'25.19736" N	97°16'04.42987" W	461.934	487.966	4837086.354	639629.707
VVANF136	21017SR	43°54'23.09101" N	97°13'58.25629" W	497.740	523.578	4862996.370	641903.168
VVANF137	21017SS	44°50'51.45906" N	97°04'02.51984" W	508.172	533.255	4967840.810	652724.451
VVANF138	21017ST	45°07'19.70007" N	97°01'31.65298" W	576.075	601.390	4998415.163	655292.947
VVANF139	21017SU	45°05'34.06864" N	97°00'17.42132" W	592.532	617.835	4995195.400	656995.095
VVANF140	21017SV	43°50'53.49933" N	97°10'09.33087" W	529.754	555.624	4856641.240	647152.837
VVANF141	21017SW	43°59'34.40097" N	97°08'21.58709" W	484.259	510.065	4872765.996	649196.363
VVANF142	21017SX	44°56'25.56308" N	97°00'15.29979" W	530.807	556.002	4978270.927	657458.639
VVANF143	21017SY	43°16'16.05437" N	97°12'02.66471" W	379.647	405.728	4792495.332	646009.721
VVANF144	21017SZ	45°07'15.15483" N	96°55'22.23247" W	540.482	565.888	4998477.197	663367.109
VVANF145	21017TA	42°55'25.29252" N	97°12'54.81269" W	329.664	355.306	4753886.251	645655.647
VVANF146	21017TB	44°10'01.74573" N	96°59'24.42623" W	493.974	519.564	4892402.414	660688.396
VVANF147	21017TC	44°43'55.32988" N	96°54'18.31456" W	550.146	575.179	4955318.460	665879.348

Station Name	GPSID	Latitude	Longitude	Ellipsoidal Height	NAVD 1988 Height	UTM Northing	UTM Easting
VVANF148	21017TD	43°06'48.19855" N	97°04'49.71855" W	363.294	389.363	4775194.772	656171.094
VVANF149	21017TE	44°05'42.00131" N	96°54'31.48342" W	474.722	500.493	4884550.681	667397.952
VVANF150	21017TF	42°54'35.37233" N	96°54'16.57343" W	327.281	352.832	4752931.136	671044.688
VVANF151	21017TG	42°51'08.23046" N	96°54'16.38888" W	333.931	359.488	4746541.397	671207.967
VVANF152	21017TH	42°58'05.84300" N	96°53'04.59200" W	348.695	374.321	4759464.582	672513.528
VVANF153	21017TI	42°52'50.41882" N	96°53'05.37135" W	341.715	367.256	4749733.965	672740.616
VVAF001	21017TJ	43°00'34.34081" N	98°02'55.51178" W	468.903	495.096	4762313.086	577522.811
VVAF002	21017TK	45°18'43.14701" N	97°42'56.16744" W	521.971	546.821	5018411.304	600679.253
VVAF003	21017TL	45°52'40.43090" N	97°32'33.86515" W	446.094	471.567	5081513.686	613086.582
VVAF004	21017TM	45°05'34.58268" N	97°38'37.10120" W	527.490	552.269	4994169.716	606728.995
VVAF005	21017TN	45°26'33.88060" N	97°24'42.64433" W	537.170	562.263	5033362.341	624202.891
VVAF006	21017TO	42°53'51.35743" N	97°37'01.57204" W	463.708	489.444	4750371.040	612905.452
VVAF007	21017TP	44°45'40.19730" N	97°22'49.69239" W	512.791	537.646	4957695.248	628173.068
VVAF008	21017TQ	45°28'30.68840" N	97°15'55.80821" W	554.218	579.426	5037203.541	635569.943
VVAF009	21017TR	44°41'48.94028" N	97°22'11.28889" W	506.725	531.539	4950576.385	629160.251
VVAF010	21017TS	42°53'12.51026" N	97°29'54.70736" W	407.143	432.762	4749338.628	622607.827
VVAF011	21017TT	42°57'08.26473" N	97°19'58.43404" W	364.368	390.027	4756865.601	635989.187
VVAF012	21017TU	43°15'24.75327" N	97°14'33.49565" W	373.928	399.967	4790840.382	642642.957
VVAF013	21017TV	42°54'17.81663" N	97°19'32.29207" W	331.432	357.060	4751619.504	636686.229
VVAF014	21017TW	43°12'40.04839" N	97°16'43.24865" W	458.237	484.198	4785698.539	639821.967