

STATION NAME: p162 a 3 (RedwoodsCCCN2004; Loleta, CA United States)
 MONUMENT: NO DOMES NUMBER

XYZ	-2724770.6993	-4003808.8804	4136468.6269	MON @ 1997.0000 (M)
XYZ	-0.0040	0.0082	0.0053	VEL (M/YR)
NEU	-0.0000	0.0000	0.0083	MON TO ARP (M)
NEU	0.0015	0.0004	0.0880	ARP TO L1 PHASE CENTER (M)
NEU	0.0001	0.0011	0.1172	ARP TO L2 PHASE CENTER (M)
XYZ	-0.0570	0.1168	0.0755	VEL TIMES 14.2418 YRS
XYZ	-0.0035	-0.0052	0.0054	MON TO ARP
XYZ	-0.0366	-0.0546	0.0585	ARP TO L1 PHASE CENTER
XYZ	-2724770.7964	-4003808.8234	4136468.7663	L1 PHS CEN @ 2011.2430
XYZ	-0.0000	0.0000	0.0000	+ XYZ ADJUSTMENTS
XYZ	-2724770.7964	-4003808.8234	4136468.7663	NEW L1 PHS CEN @ 2011.2430
XYZ	-2724770.7598	-4003808.7688	4136468.7078	NEW ARP @ 2011.2430
XYZ	-2724770.7562	-4003808.7636	4136468.7024	NEW MON @ 2011.2430
LLH	40 41 27.94038	235 45 46.66710	-6.3751	NEW L1 PHS CEN @ 2011.2430
LLH	40 41 27.94033	235 45 46.66708	-6.4632	NEW ARP @ 2011.2430
LLH	40 41 27.94033	235 45 46.66708	-6.4715	NEW MON @ 2011.2430

STATION NAME: trnd a 5 (TRND_PNGA_CN1999; Trinidad Head, CA USA)
 WARNING: ORIGINALLY "TRM29659.00 UNAV"

XYZ	-2703981.9441	-3986137.3182	4166989.0528	MON @ 1997.0000 (M)
XYZ	-0.0050	0.0050	0.0015	VEL (M/YR)
NEU	-0.0000	0.0000	0.0796	MON TO ARP (M)
NEU	-0.0001	-0.0009	0.0920	ARP TO L1 PHASE CENTER (M)
NEU	-0.0002	0.0002	0.1205	ARP TO L2 PHASE CENTER (M)
XYZ	-0.0712	0.0712	0.0214	VEL TIMES 14.2418 YRS
XYZ	-0.0337	-0.0497	0.0523	MON TO ARP
XYZ	-0.0397	-0.0569	0.0603	ARP TO L1 PHASE CENTER
XYZ	-2703982.0887	-3986137.3536	4166989.1868	L1 PHS CEN @ 2011.2430
XYZ	-0.0000	0.0000	0.0000	+ XYZ ADJUSTMENTS
XYZ	-2703982.0887	-3986137.3536	4166989.1868	NEW L1 PHS CEN @ 2011.2430
XYZ	-2703982.0490	-3986137.2967	4166989.1265	NEW ARP @ 2011.2430
XYZ	-2703982.0153	-3986137.2470	4166989.0742	NEW MON @ 2011.2430
LLH	41 3 13.98932	235 50 56.87854	78.3336	NEW L1 PHS CEN @ 2011.2430
LLH	41 3 13.98932	235 50 56.87858	78.2416	NEW ARP @ 2011.2430
LLH	41 3 13.98932	235 50 56.87858	78.1620	NEW MON @ 2011.2430

STATION NAME: p169 a 3 (FickleHillCN2004; Arcata, CA United States)
 MONUMENT: NO DOMES NUMBER

XYZ	-2702159.0996	-4010998.5993	4145341.2697	MON @ 1997.0000 (M)
XYZ	-0.0077	0.0066	0.0014	VEL (M/YR)
NEU	-0.0000	0.0000	0.0083	MON TO ARP (M)
NEU	0.0015	0.0004	0.0880	ARP TO L1 PHASE CENTER (M)
NEU	0.0001	0.0011	0.1172	ARP TO L2 PHASE CENTER (M)
XYZ	-0.1097	0.0940	0.0199	VEL TIMES 14.2418 YRS
XYZ	-0.0035	-0.0052	0.0054	MON TO ARP
XYZ	-0.0363	-0.0547	0.0587	ARP TO L1 PHASE CENTER
XYZ	-2702159.2491	-4010998.5652	4145341.3537	L1 PHS CEN @ 2011.2430
XYZ	-0.0000	-0.0000	-0.0000	+ XYZ ADJUSTMENTS
XYZ	-2702159.2491	-4010998.5652	4145341.3537	NEW L1 PHS CEN @ 2011.2430
XYZ	-2702159.2128	-4010998.5105	4145341.2950	NEW ARP @ 2011.2430
XYZ	-2702159.2093	-4010998.5053	4145341.2896	NEW MON @ 2011.2430
LLH	40 47 28.12038	236 1 56.44924	689.4578	NEW L1 PHS CEN @ 2011.2430
LLH	40 47 28.12033	236 1 56.44922	689.3697	NEW ARP @ 2011.2430
LLH	40 47 28.12033	236 1 56.44922	689.3614	NEW MON @ 2011.2430

REMOTE STATION INFORMATION

STATION NAME: 1563 1
 MONUMENT: NO DOMES NUMBER

XYZ	-2715622.9611	-3998850.6089	4147164.4382	MON @ 2011.2428 (M)
NEU	0.0010	-0.0004	2.0000	MON TO ARP (M)
NEU	-0.0010	0.0004	0.0772	ARP TO L1 PHASE CENTER (M)
NEU	0.0015	0.0035	0.0865	ARP TO L2 PHASE CENTER (M)

	OVERALL	03	06	09	11	14	15	16	18
p169-1563	0.010	0.008	0.009	0.015	0.011	0.008	0.009	0.013	0.008
	19	21	22	24	26	27	29	30	31
p169-1563	0.007	0.009	...	0.014	...	0.022	0.017	0.014	0.018
	32								
p169-1563	0.021								

OBS BY SATELLITE VS. BASELINE

	OVERALL	03	06	09	11	14	15	16	18
p162-1563	3733	464	423	207	151	389	223	155	489
	19	21	22	24	26	27	29	30	31
p162-1563	386	340	...	110	...	85	86	88	58
	32								
p162-1563	79								
	OVERALL	03	06	09	11	14	15	16	18
trnd-1563	3705	463	423	207	150	378	223	148	488
	19	21	22	24	26	27	29	30	31
trnd-1563	386	327	...	110	...	91	86	88	58
	32								
trnd-1563	79								
	OVERALL	03	06	09	11	14	15	16	18
p169-1563	3709	464	423	207	152	382	223	149	480
	19	21	22	24	26	27	29	30	31
p169-1563	386	337	...	110	...	82	82	95	58
	32								
p169-1563	79								

Covariance Matrix for the xyz OPUS Position (meters^2).

0.0000028844	0.0000001487	-0.0000000506
0.0000001487	0.0000027067	-0.0000000402
-0.0000000506	-0.0000000402	0.0000030889

Covariance Matrix for the enu OPUS Position (meters^2).

0.0000026901	0.0000000749	-0.0000001169
0.0000000749	0.0000029483	0.0000001022
-0.0000001169	0.0000001022	0.0000030416

Horizontal network accuracy = 0.00411 meters.

Vertical network accuracy = 0.00342 meters.

Derivation of NAD 83 vector components

Position of reference station ARP in NAD_83(CORS96)(EPOCH:2002.0000).

	Xa(m)	Ya(m)	Za(m)	
P162	-2724770.05621	-4003810.07201	4136468.57338	2002.00
TRND	-2703981.33594	-3986138.56768	4166989.02549	2002.00
P169	-2702158.47909	-4010999.79700	4145341.19940	2002.00

Position of reference station monument in NAD_83(CORS96)(EPOCH:2002.0000).

	Xr(m)	Yr(m)	Zr(m)	
P162	-2724770.05271	-4003810.06681	4136468.56798	2002.00
TRND	-2703981.30224	-3986138.51798	4166988.97319	2002.00
P169	-2702158.47559	-4010999.79180	4145341.19400	2002.00

Velocity of reference station monument in NAD_83(CORS96)(EPOCH:2002.0000).

	Vx (m/yr)	Vy (m/yr)	Vz (m/yr)
P162	0.01340	0.00890	0.01630
TRND	0.01250	0.00570	0.01240
P169	0.00600	0.00810	0.01160

Vectors from unknown station monument to reference station monument

in NAD_83(CORS96)(EPOCH:2002.0000).

	Xr-X= DX(m)	Yr-Y= DY(m)	Zr-Z= DZ(m)	
P162	-9148.64171	-4959.35081	-10694.47002	2002.00
TRND	11640.10876	12712.19802	19825.93519	2002.00
P169	13462.93541	-12149.07580	-1821.84400	2002.00

STATE PLANE COORDINATES - U.S. Survey Foot

	SPC (0401	CA 1)
Northing (Y) [feet]	2188921.805	
Easting (X) [feet]	5958267.701	
Convergence [degrees]	-1.42575847	
Point Scale	0.99989468	
Combined Factor	0.99989899	

** Orthometric Heights Above Future Geopotential Datum.

Prototype orthometric heights are now being made available as a precursor to the completion of GRAV-D and the replacement of NAVD 88 with a new geopotential reference system. The following height reflects the current best estimate of the true orthometric height, based on the existing gravimetric geoid model. This height is subject to change as data and modeling for the gravimetric geoid change throughout the lifetime of the GRAV-D project, or as new realizations of the ITRF are adopted. However, at the completion of GRAV-D, these heights will supersede the NAVD 88 heights

APPROX ORTHO HGT: 2.143 (m) [PROTOTYPE (Computed using USGG2009,GRS80,ITRF2000)]

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.