

Stress amplification on the San Andreas fault due to interseismic fault system interactions: Supplementary Information

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WESTERN UNITED STATES BLOCK MODEL AND FAULT SLIP RATES

We construct a three-dimensional, spherical block model geometry of interconnected faults throughout the entire western United States, integrating the southern California fault system (SCFS) with San Francisco Bay Area faults, Basin and Range structures, and the Cascadia subduction zone in the Pacific Northwest. In southern California, we use the Southern California Earthquake Center's Community Fault Model (CFM) (*Plesch et al.*, 2007) and United States Geological Survey Quaternary fault map as the bases for the block geometry, using the CFM-specified dips for most fault segments. The model is constrained by a nominally interseismic velocity field from 6 published networks (*McClusky et al.*, 2001; *Shen et al.*, 2003; *Hammond and Thatcher*, 2005; *McCaffrey*, 2005; *Williams et al.*, 2006; *Plate Boundary Observatory network velocity field*, 2008), combined into a common reference frame by minimizing velocity misfit between collocated stations in the fields, using a 6-parameter (rotation plus translation) transformation.

We use these data and the theory presented by *Meade and Loveless* (2009) to estimate a suite of kinematically consistent slip rates on fault segments bounding crustal blocks. The basis for block theory is the earthquake cycle, in which net “long-term” displacement between adjacent blocks at the end of one complete cycle is given as the sum of interseismic and coseismic deformation. The GPS data used to constrain the model measures the nominally interseismic velocity field, $\mathbf{v}_I$, which is given as the difference between the step-like, long-term block deformation, $\mathbf{v}_B$, and the velocities related to coseismic elastic deformation, $\mathbf{v}_E$: $\mathbf{v}_I = \mathbf{v}_B - \mathbf{v}_E$. We estimate an Euler pole of rotation for each crustal block in the model and project the relative rotational motion of two adjacent blocks onto the fault segments that bound them to give a set of block-motion slip rates that inherently satisfy path integral constraints. Assuming that the fault segments are fully locked from the surface to an assumed locking depth, the elastic strain contribution to the velocity field is proportional to the kinematically consistent fault slip rate. We can therefore interpret the block-motion slip rates as slip deficit rates, giving the annual accrual of slip that will be released in the next earthquake.

The constraining GPS data, $\mathbf{v}_I$, is related to the block rotation vectors, Ω , slip rates on partially coupled dislocation sources, $\mathbf{p}$, and internal strain rate tensors, $\dot{\epsilon}$, through the equation $\mathbf{v}_I = \mathbf{G} [\Omega \mathbf{p} \dot{\epsilon}]^T$, where $\mathbf{G}$ is a combined Jacobian, and we estimate the model parameters using a linear weighted least-squares inversion. The estimated relative block rotations are projected onto the three dimensional fault system geometry, providing a kinematically consistent set of fault-parallel and fault-normal slip rates that inherently satisfy path integral constraints. We estimate two components of fault slip rates on each segment: strike-slip rates are estimated for all faults, and the

fault-normal slip rate is given as dip-slip on dipping faults and tensile (opening or closing sense) slip on vertical faults. The contribution to the velocity field from elastic strain accumulation about locked faults scales linearly with these slip rates and is incorporated into $\mathbf{G}$ using elastic dislocation Green's functions (*Okada, 1992*). Partially coupled fault surfaces — in this case, the Cascadia subduction zone and Parkfield segment of the San Andreas fault (SAF) — are parametrized by triangular dislocation elements (*Meade, 2007*). The total contribution to the interseismic velocity field from elastic strain accumulation is subtracted from the velocity field due to block rotation alone, reflecting the We present geometric parameters and estimated fault slip rates for southern California faults in Table DR1 and the combined interseismic GPS velocity field in Table DR2.

STRESS ACCUMULATION RATES

To calculate stress accumulation rates on SAF, we use our catalog of derived slip rates (Fig. 1B, Table DR1), analytical expressions (*Okada, 1992*) for strain due to dislocations embedded in a homogenous elastic half-space, and constitutive relations for converting strain rates to stress rates.

We formulate the expressions as follows. For each SAF segment centroid, we calculate the partial derivatives, $\mathbf{G}_{\text{TOT}}$, giving the strain rate tensor components resulting from unit dislocations on all segments in the SCFS. To convert strain rate, ϵ , to stress rate, σ , we assume a linear Hookean rheology, $\sigma_{ij} = \lambda \epsilon_{kk} \delta_{ij} + 2\mu \epsilon_{ij}$, where λ and μ are the Lamé parameters (assumed to be $\lambda = \mu = 3 \times 10^{10}$ Pa) and δ_{ij} is the Kronecker delta, summed over $i, j = 1 \dots 3$. This can be expressed as a linear operator,

$$\mathbf{T} = \begin{bmatrix} \lambda + 2\mu & \lambda & \lambda & 0 & 0 & 0 \\ \lambda & \lambda + 2\mu & \lambda & 0 & 0 & 0 \\ \lambda & \lambda & \lambda + 2\mu & 0 & 0 & 0 \\ 0 & 0 & 0 & 2\mu & 0 & 0 \\ 0 & 0 & 0 & 0 & 2\mu & 0 \\ 0 & 0 & 0 & 0 & 0 & 2\mu \end{bmatrix}, \quad (1)$$

multiplying the strain rate tensor components, $\boldsymbol{\epsilon} = [\epsilon_{11}, \epsilon_{22}, \epsilon_{33}, \epsilon_{12}, \epsilon_{13}, \epsilon_{23}]^T$, so that stress rate can be calculated as $\boldsymbol{\sigma}_{\text{TOT}} = \mathbf{T} \mathbf{G}_{\text{TOT}} u_{\text{TOT}} = \mathbf{H}_{\text{TOT}} u_{\text{TOT}}$, where $\mathbf{T}$ is a $6n_{\text{SAF}} \times 6n_{\text{SAF}}$ block diagonal matrix with entries $\mathbf{T}$, and $\mathbf{H} = \mathbf{T} \mathbf{G}$ is a combined linear operator, and u_{TOT} is the vector of slip rates. $\mathbf{G}_{\text{TOT}}$ is a $6n_{\text{SAF}} \times 3n_{\text{seg}}$ matrix, u_{TOT} is a $3n_{\text{seg}} \times 1$ vector, and $\boldsymbol{\sigma}_{\text{TOT}}$ is a $6n_{\text{SAF}} \times 1$ vector, where n_{SAF} is the number of SAF segments and n_{seg} is the number of segments in the entire SCFS. For the case of self stress rate, we calculate

$$\boldsymbol{\sigma}_{\text{SAF}} = \mathbf{H}_{\text{SAF}} u_{\text{SAF}}, \quad (2)$$

where $\mathbf{H}_{\text{SAF}}$, a $6n_{\text{SAF}} \times 3n_{\text{SAF}}$ matrix, and u_{SAF} , a $3n_{\text{SAF}} \times 1$ vector, are subsets of the full combined constitutive/partial derivative matrix and slip rate vector, respectively, with entries corresponding to SAF segments.

The results in Figs. 1 and 2 of the main text are expressed as shear stressing rates, τ , derived by rotating the full stress rate tensor onto each SAF segment's geometry, using the tensor transfor-

mation matrices

$$\begin{aligned}
\mathbf{A} &= \begin{bmatrix} \cos(\theta) & \sin(\theta) & 0 \\ -\sin(\theta) & \cos(\theta) & 0 \\ 0 & 0 & 1 \end{bmatrix}, \\
\mathbf{B} &= \begin{bmatrix} \cos(\delta) & 0 & \sin(\delta) \\ 0 & 1 & 0 \\ -\sin(\delta) & 0 & \cos(\delta) \end{bmatrix}, \\
\mathbf{C} &= \begin{bmatrix} \cos(\beta) & -\sin(\beta) & 0 \\ \sin(\beta) & \cos(\beta) & 0 \\ 0 & 0 & 1 \end{bmatrix},
\end{aligned} \tag{3}$$

where θ is the segment strike, δ is the dip, and β is the rake of slip (equal to 180° for pure right-lateral slip). We determine τ and the fault normal stress, σ_n , by extracting the (2, 3) and (3, 3) components, respectively, of the transformed stress rate tensor, $\bar{\sigma}$, which is given by

$$\bar{\sigma} = \mathbf{C}^T \mathbf{B}^T \mathbf{A}^T \sigma \mathbf{A} \mathbf{B} \mathbf{C}. \tag{4}$$

We define the shear stress rate difference (Fig. 2c) as

$$\Delta\tau' = \frac{\tau_{\text{TOT}} - \tau_{\text{SAF}}}{\tau_{\text{TOT}}} \times 100, \tag{5}$$

the numerator of which reflects the rate of shear stress induced on the SAF by all other segments.

COULOMB FAILURE STRESS RATE

In addition to the shear stress accumulation rates presented in Fig. 2, we calculate Coulomb failure stress (CFS) accumulation rate, which reflects the balance between shear stress rate, τ , and normal stress rate, σ_n , modulated by the effective coefficient of friction, μ (*King et al.*, 1994):

$$\text{CFS} = \tau - \mu\sigma_n. \tag{6}$$

Because we calculate τ and σ_n for each SAF segment, CFS reflects the likelihood of right-lateral failure on that segment. We calculate CFS using an effective friction coefficient of $\mu = 0.4$ (*King et al.*, 1994). The patterns of self, total, and differential CFS (Fig. DR1) generally follow those of shear stress rate (Fig. 2).

CHANGES IN STRESS RATE WITH DEPTH

In Fig. 2, we show stress rates resolved on the SAF at the segment centroids, the depths of which are equal to half the locking depth. We also resolved shear stress on SAF planes at 25% and 75% of the locking depth and find broadly similar results (Figs. DR2, DR3). At 25% locking depth, stress rate magnitudes (Fig. DR2) are generally ~ 15 – 20% lower than those of the 50% locking depth case (Fig. 2), and ~ 60 – 70% higher at 75% locking depth (Fig. DR3). Stress rate differences are slightly larger for the 25% case (up to $\Delta\tau' = 47\%$ along the San Bernardino section away from

section junctions) (Fig. DR2B) and smaller for the 75% case (Fig. DR3B). These relationships indicate that fault system interaction is more effective in modulating stress close to the surface than at depth.

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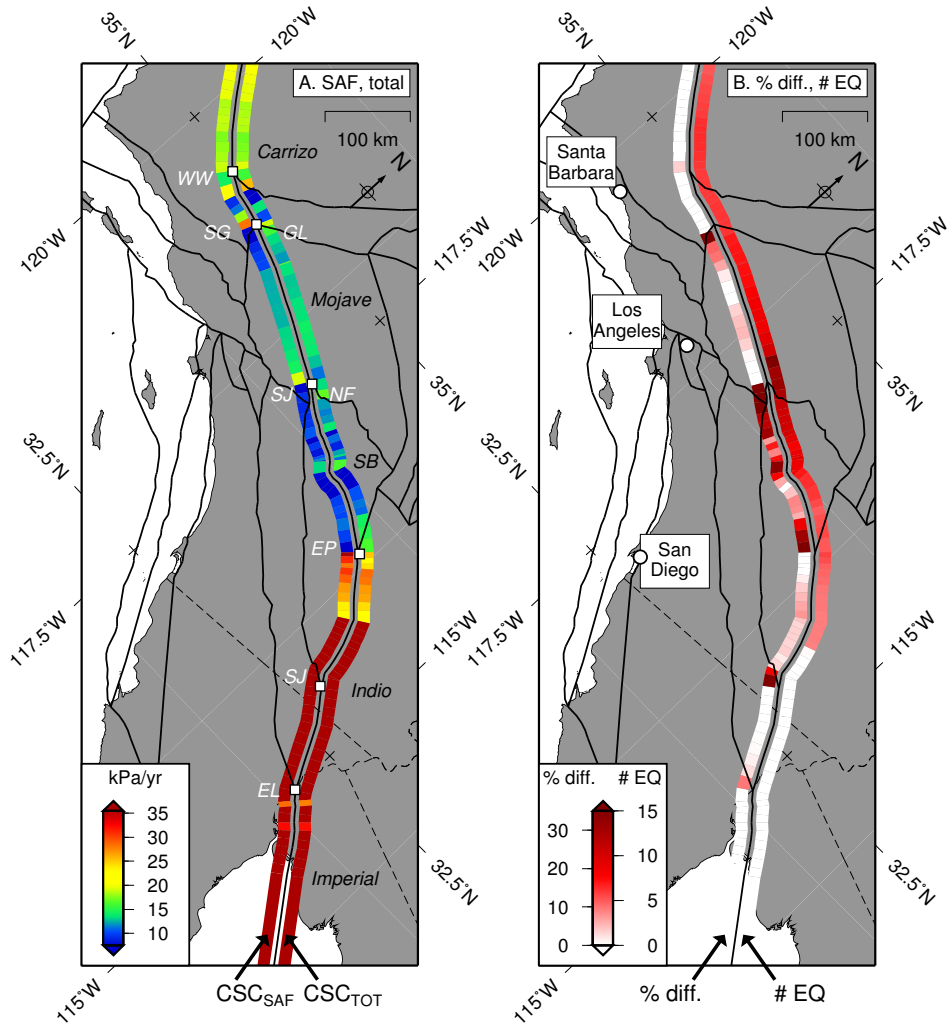


Figure DR1: Interseismic Coulomb failure stress (CFS) accumulation rate resolved on the San Andreas fault (SAF). CFS rate calculated analytically (*Okada, 1992*) from the slip rates from our kinematically consistent block model, using an effective coefficient of friction of $\mu' = 0.4$. Two quantities are plotted in each panel, one to the left (southwest) and one to the right (northeast) of the SAF trace, as labeled at the bottom of the panel. A) Self CFS rate due to slip on SAF segments alone, CSC_{SAF} , and total CFS rate due to slip on all faults, CSC_{TOT} . Fault junctions are labeled in white; WW: White Wolf, GL: Garlock, SG: San Gabriel, SJ: San Jacinto, NF: North Frontal, EP: Eureka Peak, EL: Elsinore. Junctions bound labeled sections of the SAF (black italics); SB: San Bernardino. B) Difference between total and self-stress, normalized by self-stress ($\Delta CSC' = (CSC_{TOT} - CSC_{SAF})/CSC_{SAF} \times 100$, “% diff.”), and mean number of paleoseismic earthquakes (“# EQ”) on each segment, from the rupture models of *Biasi and Weldon (2009)*.

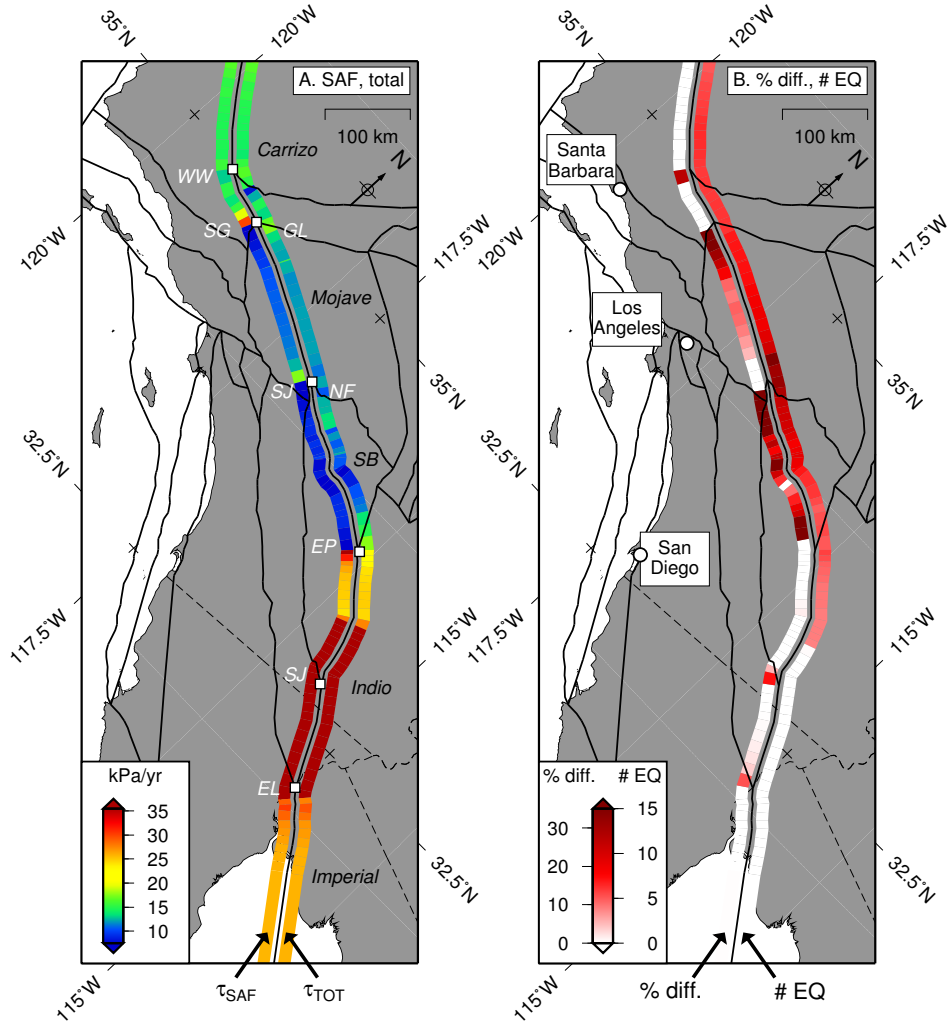


Figure DR2: Interseismic shear stressing rates calculated analytically (*Okada, 1992*) from the slip rates from our kinematically consistent block model. In contrast to Fig. 3 of the main text, in which shear stress was calculated at half the locking depth of each segment, values shown here reflect shear stress at 25% locking depth. A) Self shear stress rate due to slip on San Andreas fault (SAF) segments alone, τ_{SAF} , and total shear stress rate due to slip on all faults, τ_{TOT} . B) Difference between total and self-stress, normalized by self-stress ($\Delta\tau' = (\tau_{TOT} - \tau_{SAF})/\tau_{SAF} \times 100$), and mean number of paleoseismic earthquakes on each segment, from the rupture models of *Biasi and Weldon (2009)*. Labels and abbreviations are defined in Fig. DR1 caption.

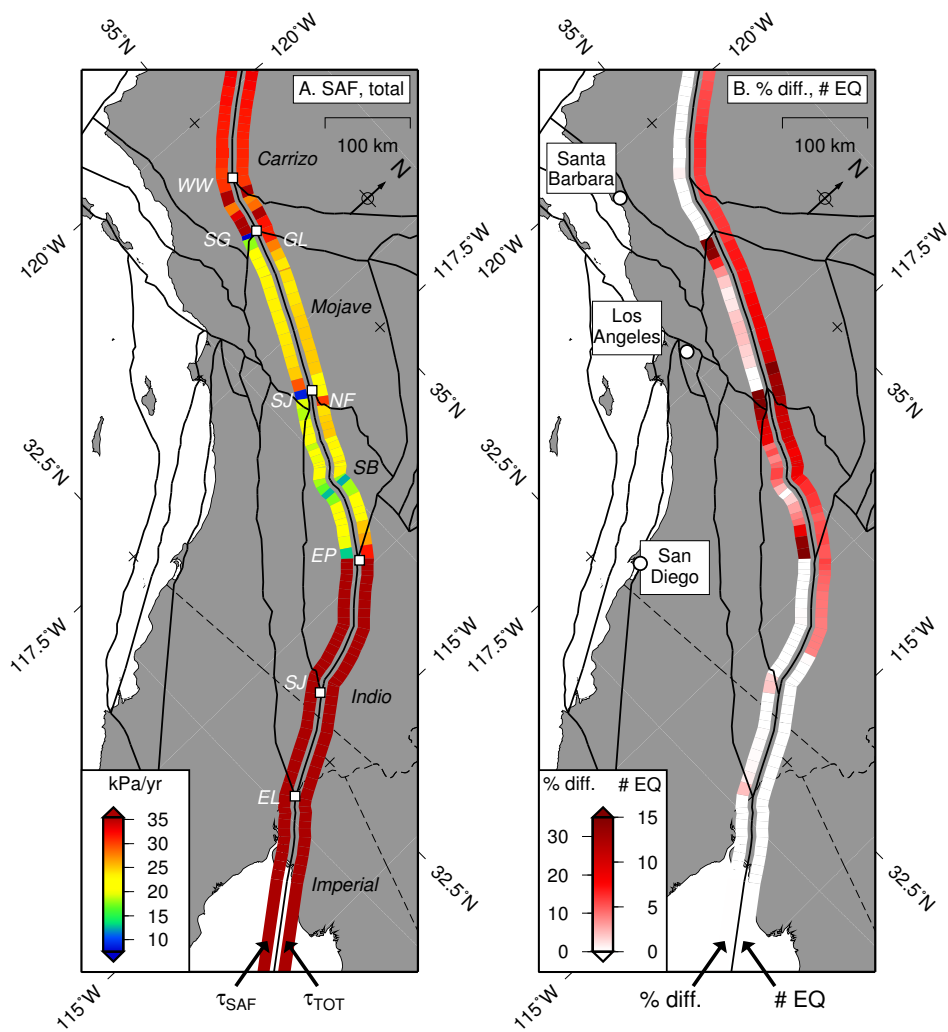


Figure DR3: Same as Fig. DR2, but shear stress rate is calculated at 75% locking depth on each segment.

Table DR1. Geometric parameters and estimated slip rates for southern California fault segments in our block model. Each named fault is divided into a number of segments (#), with endpoints given as (Lon-1, Lat-1) and (Lon-2, Lat-2), length as L (km), locking depth as Z (km), strike, and dip (following the right-hand rule). We estimate strike slip, U_s (with uncertainty S_s), and dip slip, U_d (with uncertainty S_d), on dipping faults, and U_s and tensile slip, U_t (with uncertainty S_t), on vertical faults. Segment names preceded by a letter label correspond to slip rates shown in Fig. 1b.

#	Lon-1	Lat-1	Lon-2	Lat-2	L(km)	Z(km)	strike	dip	U_s	S_s	U_d	S_d	U_t	S_t
a. SAF Carrizo														
1	239.815	35.639	239.869	35.583	7.908	22.0	141.8	90	31.5	0.2	0.0	0.0	-0.0	0.3
2	239.869	35.583	239.923	35.528	7.824	22.0	141.2	90	31.5	0.2	0.0	0.0	-0.1	0.3
3	239.923	35.528	239.977	35.473	7.826	22.0	141.2	90	31.5	0.2	0.0	0.0	0.0	0.3
4	239.977	35.473	240.031	35.418	7.828	22.0	141.2	90	31.5	0.2	0.0	0.0	0.2	0.3
5	240.031	35.418	240.085	35.362	7.917	22.0	141.7	90	31.4	0.2	0.0	0.0	0.7	0.3
6	240.085	35.362	240.140	35.307	7.889	22.0	140.7	90	31.5	0.2	0.0	0.0	0.3	0.4
7	240.140	35.307	240.188	35.264	6.467	22.0	137.5	90	31.4	0.2	0.0	0.0	-1.2	0.4
8	240.188	35.264	240.236	35.221	6.469	22.0	137.5	90	31.4	0.2	0.0	0.0	-1.1	0.4
9	240.236	35.221	240.284	35.177	6.553	22.0	138.1	90	31.4	0.2	0.0	0.0	-0.6	0.4
10	240.284	35.177	240.333	35.134	6.534	22.0	136.9	90	31.4	0.2	0.0	0.0	-1.1	0.4
11	240.333	35.134	240.399	35.085	8.109	22.0	132.1	90	31.2	0.2	0.0	0.0	-3.5	0.4
12	240.399	35.085	240.464	35.037	7.970	22.0	131.9	90	31.2	0.2	0.0	0.0	-3.4	0.4
13	240.464	35.037	240.529	34.988	8.047	22.0	132.5	90	31.2	0.2	0.0	0.0	-2.9	0.4
14	240.529	34.988	240.594	34.942	7.828	22.0	130.7	90	31.1	0.2	0.0	0.0	-3.7	0.5
b. SAF White Wolf-Garlock														
1	240.594	34.942	240.692	34.903	9.945	25.0	115.8	90	28.5	0.4	0.0	0.0	-8.4	0.7
2	240.692	34.903	240.790	34.864	9.949	25.0	115.7	90	28.5	0.4	0.0	0.0	-8.3	0.7
3	240.790	34.864	240.863	34.855	6.750	15.0	98.5	90	24.8	0.4	0.0	0.0	-16.2	0.7
4	240.863	34.855	240.936	34.846	6.750	15.0	98.5	90	24.8	0.4	0.0	0.0	-16.1	0.7
5	240.936	34.846	241.019	34.828	7.850	15.0	104.7	90	26.4	0.4	0.0	0.0	-13.2	0.7
6	241.019	34.828	241.103	34.811	7.913	15.0	103.8	90	26.1	0.4	0.0	0.0	-13.5	0.7
c. SAF Mojave														
1	241.103	34.811	241.144	34.792	4.303	15.0	119.3	90	16.4	0.8	0.0	0.0	-1.7	1.1
2	241.144	34.792	241.231	34.769	8.362	15.0	107.7	90	15.7	0.7	0.0	0.0	-4.9	1.1
3	241.231	34.769	241.318	34.746	8.364	15.0	107.7	90	15.7	0.7	0.0	0.0	-4.9	1.0
4	241.318	34.746	241.406	34.724	8.421	15.0	106.8	90	15.7	0.7	0.0	0.0	-5.1	1.0
5	241.406	34.724	241.493	34.701	8.368	15.0	107.7	90	15.7	0.7	0.0	0.0	-4.8	0.9
6	241.493	34.701	241.498	34.699	0.509	15.0	115.8	90	16.3	0.8	0.0	0.0	-2.5	0.8
7	241.498	34.699	241.597	34.662	9.958	15.0	114.3	90	16.2	0.8	0.0	0.0	-3.0	0.8
8	241.597	34.662	241.696	34.624	10.008	15.0	114.9	90	16.2	0.8	0.0	0.0	-2.8	0.7
9	241.696	34.624	241.795	34.587	9.965	15.0	114.3	90	16.2	0.8	0.0	0.0	-2.9	0.6
10	241.795	34.587	241.894	34.549	10.015	15.0	114.9	90	16.2	0.8	0.0	0.0	-2.7	0.6
11	241.894	34.549	241.993	34.512	9.973	15.0	114.3	90	16.2	0.8	0.0	0.0	-2.9	0.6
12	241.993	34.512	242.088	34.472	9.789	15.0	116.9	90	16.3	0.8	0.0	0.0	-2.1	0.6
13	242.088	34.472	242.184	34.432	9.875	15.0	116.7	90	16.3	0.8	0.0	0.0	-2.1	0.6
14	242.184	34.432	242.279	34.391	9.847	15.0	117.5	90	16.3	0.8	0.0	0.0	-1.8	0.7
15	242.279	34.391	242.375	34.351	9.882	15.0	116.7	90	16.3	0.8	0.0	0.0	-2.1	0.8
16	242.375	34.351	242.470	34.311	9.804	15.0	116.9	90	16.3	0.8	0.0	0.0	-2.0	0.9
d. SAF San Bernadino														
1	242.470	34.311	242.549	34.273	8.407	15.0	120.1	90	9.9	0.3	0.0	0.0	-3.3	0.6
2	242.549	34.273	242.613	34.232	7.446	15.0	127.6	90	10.2	0.3	0.0	0.0	-1.9	0.5
3	242.613	34.232	242.695	34.188	8.996	10.0	122.8	90	10.0	0.3	0.0	0.0	-2.6	0.5
4	242.695	34.188	242.754	34.161	6.210	10.0	118.8	90	9.8	0.3	0.0	0.0	-3.3	0.5
5	242.754	34.161	242.813	34.137	6.058	10.0	116.1	90	9.7	0.3	0.0	0.0	-3.6	0.4
6	242.813	34.137	242.883	34.102	7.535	10.0	121.0	90	9.9	0.3	0.0	0.0	-2.7	0.4
7	242.883	34.102	242.930	34.091	4.506	10.0	105.7	90	8.9	0.3	0.0	0.0	-5.2	0.4

#	Lon-1	Lat-1	Lon-2	Lat-2	L(km)	Z(km)	strike	dip	U_s	S_s	U_d	S_d	U_t	S_t
8	242.930	34.091	242.985	34.070	5.585	10.0	114.6	90	9.6	0.3	0.0	0.0	-3.7	0.4
9	242.985	34.070	243.053	34.049	6.696	10.0	110.3	90	9.3	0.3	0.0	0.0	-4.3	0.4
10	243.053	34.049	243.083	34.034	3.231	10.0	121.0	90	9.9	0.3	0.0	0.0	-2.4	0.3
11	243.083	34.034	243.098	34.026	1.645	10.0	122.6	90	10.0	0.3	0.0	0.0	-2.1	0.3
12	243.098	34.026	243.113	34.019	1.588	10.0	119.3	90	9.8	0.3	0.0	0.0	-2.7	0.3
13	243.113	34.019	243.177	33.959	8.903	10.0	138.4	90	10.2	0.3	0.0	0.0	0.7	0.2
14	243.177	33.959	243.202	33.951	2.475	10.0	111.0	90	9.4	0.3	0.0	0.0	-4.0	0.3
15	243.202	33.951	243.246	33.945	4.121	10.0	99.3	90	8.4	0.2	0.0	0.0	-5.7	0.3
16	243.246	33.945	243.307	33.950	5.666	10.0	84.4	90	6.6	0.2	0.0	0.0	-7.7	0.3
17	243.307	33.950	243.406	33.935	9.302	10.0	100.3	90	8.4	0.2	0.0	0.0	-5.4	0.3
18	243.406	33.935	243.502	33.900	9.689	10.0	113.6	90	9.5	0.3	0.0	0.0	-3.2	0.2
19	243.502	33.900	243.556	33.876	5.660	10.0	118.0	90	9.7	0.3	0.0	0.0	-2.4	0.2
20	243.556	33.876	243.611	33.852	5.743	10.0	117.6	90	9.7	0.3	0.0	0.0	-2.4	0.2
21	243.611	33.852	243.699	33.801	9.918	10.0	124.8	90	9.9	0.3	0.0	0.0	-1.1	0.2
22	243.699	33.801	243.788	33.750	9.998	10.0	124.4	90	9.9	0.3	0.0	0.0	-1.0	0.2
23	243.788	33.750	243.876	33.699	9.926	10.0	124.7	90	9.9	0.3	0.0	0.0	-0.8	0.2

e. SAF Indio

1	243.876	33.699	243.903	33.671	3.989	10.0	141.1	90	24.1	0.2	0.0	0.0	-4.4	0.2
2	243.903	33.671	243.945	33.638	5.346	10.0	133.2	90	23.3	0.2	0.0	0.0	-7.9	0.2
3	243.945	33.638	243.976	33.612	4.073	10.0	135.1	90	23.5	0.2	0.0	0.0	-7.4	0.2
4	243.976	33.612	244.019	33.567	6.391	10.0	141.3	90	24.2	0.2	0.0	0.0	-5.1	0.2
5	244.019	33.567	244.063	33.522	6.451	10.0	140.7	90	24.1	0.2	0.0	0.0	-5.7	0.2
6	244.063	33.522	244.117	33.472	7.479	10.0	137.8	90	23.8	0.2	0.0	0.0	-7.2	0.2
7	244.117	33.472	244.171	33.423	7.399	10.0	137.3	90	23.7	0.2	0.0	0.0	-7.9	0.3
8	244.171	33.423	244.228	33.376	7.436	10.0	134.5	90	23.3	0.2	0.0	0.0	-9.4	0.3
9	244.228	33.376	244.286	33.329	7.505	10.0	134.0	90	23.2	0.2	0.0	0.0	-10.0	0.3
10	244.286	33.329	244.308	33.286	5.191	10.0	156.7	90	25.3	0.2	0.0	0.0	-0.6	0.3
11	244.308	33.286	244.330	33.243	5.191	10.0	156.7	90	25.3	0.2	0.0	0.0	-0.9	0.3
12	244.330	33.243	244.352	33.197	5.499	5.0	158.1	90	25.4	0.2	0.0	0.0	-0.5	0.4
13	244.352	33.197	244.374	33.151	5.499	5.0	158.1	90	25.4	0.2	0.0	0.0	-0.8	0.4
14	244.374	33.151	244.399	33.084	7.788	5.0	162.6	90	25.4	0.2	0.0	0.0	0.8	0.4
15	244.399	33.084	244.423	33.017	7.761	5.0	163.2	90	25.4	0.2	0.0	0.0	0.7	0.4
16	244.423	33.017	244.435	32.958	6.639	2.5	170.3	90	25.1	0.2	0.0	0.0	3.4	0.4
17	244.435	32.958	244.446	32.899	6.624	2.5	171.1	90	25.1	0.2	0.0	0.0	3.4	0.4
18	244.446	32.899	244.465	32.872	3.482	2.5	149.3	90	24.5	0.2	0.0	0.0	-6.3	0.5
19	244.465	32.872	244.522	32.807	8.969	2.5	143.5	90	23.7	0.2	0.0	0.0	-9.1	0.5

f. SAF S. Indio

1	244.522	32.807	244.571	32.753	7.546	5.0	142.5	90	33.7	0.2	0.0	0.0	6.9	0.3
2	244.571	32.753	244.621	32.700	7.518	5.0	141.4	90	33.8	0.2	0.0	0.0	6.4	0.3
3	244.621	32.700	244.670	32.646	7.549	5.0	142.5	90	33.7	0.2	0.0	0.0	7.2	0.3
4	244.670	32.646	244.720	32.592	7.608	5.0	141.9	90	33.8	0.2	0.0	0.0	7.0	0.3
5	244.720	32.592	244.768	32.516	9.558	5.0	151.8	90	32.1	0.2	0.0	0.0	12.9	0.3
6	244.768	32.516	244.816	32.440	9.560	5.0	151.8	90	32.1	0.2	0.0	0.0	13.1	0.4
7	244.816	32.440	244.863	32.364	9.517	5.0	152.3	90	32.0	0.2	0.0	0.0	13.5	0.4
8	244.863	32.364	244.911	32.288	9.563	5.0	151.8	90	32.1	0.2	0.0	0.0	13.4	0.4
9	244.911	32.288	244.959	32.212	9.565	5.0	151.8	90	32.1	0.2	0.0	0.0	13.6	0.4
10	244.959	32.212	245.007	32.136	9.567	5.0	151.7	90	32.1	0.2	0.0	0.0	13.8	0.4

g. SAF Imperial

1	245.007	32.136	245.064	32.079	8.300	15.0	139.6	90	38.6	0.4	0.0	0.0	6.8	0.5
2	245.064	32.079	245.106	32.057	4.656	15.0	121.6	90	38.8	0.3	0.0	0.0	-5.4	0.5
3	245.106	32.057	245.147	32.013	6.229	15.0	141.5	90	38.3	0.4	0.0	0.0	8.3	0.5
4	245.147	32.013	245.199	31.965	7.244	15.0	137.3	90	38.8	0.4	0.0	0.0	5.5	0.5
5	245.199	31.965	245.251	31.926	6.548	15.0	131.3	90	39.2	0.4	0.0	0.0	1.6	0.6
6	245.251	31.926	245.298	31.876	7.107	15.0	141.3	90	38.3	0.4	0.0	0.0	8.5	0.5
7	245.298	31.876	245.344	31.826	7.049	15.0	141.8	90	38.2	0.4	0.0	0.0	9.0	0.6

#	Lon-1	Lat-1	Lon-2	Lat-2	L(km)	Z(km)	strike	dip	U_s	S_s	U_d	S_d	U_t	S_t
8	245.344	31.826	245.389	31.769	7.623	15.0	146.0	90	37.5	0.4	0.0	0.0	11.8	0.6
9	245.389	31.769	245.434	31.712	7.624	15.0	146.0	90	37.5	0.4	0.0	0.0	12.0	0.6
10	245.434	31.712	245.479	31.655	7.626	15.0	146.0	90	37.5	0.4	0.0	0.0	12.1	0.6

h. San Jacinto

1	242.470	34.311	242.520	34.254	7.821	15.0	143.9	90	12.0	0.8	0.0	0.0	2.6	1.0
2	242.520	34.254	242.566	34.232	4.890	15.0	119.9	90	12.1	0.7	0.0	0.0	-2.1	1.1
3	242.566	34.232	242.614	34.195	6.034	15.0	132.8	90	12.3	0.8	0.0	0.0	1.0	1.1
4	242.614	34.195	242.636	34.161	4.282	15.0	151.7	90	13.3	0.4	0.0	0.0	2.2	0.1
5	242.636	34.161	242.656	34.120	4.908	15.0	157.9	90	13.0	0.4	0.0	0.0	3.9	0.1
6	242.656	34.120	242.778	34.008	16.769	15.0	137.8	90	13.6	0.4	0.0	0.0	0.0	0.0
7	242.778	34.008	242.928	33.894	18.766	15.0	132.3	90	13.6	0.4	0.0	0.0	-0.0	0.0
8	242.928	33.894	242.988	33.847	7.616	15.0	133.2	90	13.6	0.4	0.0	0.0	1.2	0.0
9	242.988	33.847	243.073	33.791	10.025	15.0	128.3	90	13.7	0.4	0.0	0.0	0.6	0.0
10	243.073	33.791	243.104	33.743	6.049	15.0	151.6	90	12.1	0.3	0.0	0.0	6.5	0.2
11	243.104	33.743	243.159	33.702	6.831	15.0	131.7	90	13.7	0.4	0.0	0.0	2.5	0.1
12	243.159	33.702	243.451	33.513	34.261	15.0	127.6	90	13.9	0.4	0.0	0.0	3.0	0.1
13	243.451	33.513	243.457	33.471	4.692	15.0	173.2	90	6.8	0.2	0.0	0.0	13.0	0.4
14	243.457	33.471	243.530	33.422	8.695	15.0	128.7	90	14.1	0.4	0.0	0.0	5.0	0.1
15	243.530	33.422	243.717	33.265	24.622	15.0	135.0	90	13.4	0.4	0.0	0.0	7.7	0.2
16	243.717	33.265	243.795	33.208	9.634	15.0	131.0	90	14.0	0.4	0.0	0.0	8.0	0.2
17	243.795	33.208	243.836	33.184	4.658	15.0	124.8	90	14.8	0.4	0.0	0.0	7.0	0.2
18	243.836	33.184	243.871	33.145	5.419	15.0	142.9	90	11.8	0.3	0.0	0.0	11.6	0.3
19	243.871	33.145	243.942	33.099	8.363	15.0	127.6	90	14.6	0.4	0.0	0.0	8.5	0.2
20	243.942	33.099	243.989	33.031	8.726	15.0	149.8	90	10.1	0.3	0.0	0.0	14.0	0.4
21	243.989	33.031	244.057	33.003	7.072	15.0	116.0	90	16.4	0.5	0.0	0.0	6.5	0.2
22	244.057	33.003	244.191	32.928	15.037	15.0	123.5	90	15.4	0.4	0.0	0.0	9.4	0.3
23	244.191	32.928	244.302	32.886	11.381	15.0	114.1	90	16.8	0.5	0.0	0.0	7.7	0.2
24	244.302	32.886	244.336	32.899	3.493	15.0	65.6	90	17.2	0.5	0.0	0.0	-7.2	0.2
25	244.336	32.899	244.423	32.851	9.728	10.0	123.2	90	15.1	0.4	0.0	0.0	11.1	0.3
26	244.423	32.851	244.522	32.807	10.476	2.5	117.7	90	16.2	0.5	0.0	0.0	10.4	0.3

i. Elsinore

1	242.191	34.131	242.223	34.082	6.185	15.0	151.5	90	1.0	1.7	0.0	0.0	4.1	0.9
2	242.223	34.082	242.255	34.033	6.186	15.0	151.5	90	1.0	1.7	0.0	0.0	3.0	0.8
3	242.255	34.033	242.274	34.000	4.059	15.0	154.4	67	0.8	1.7	-5.6	2.0	0.0	0.0
4	242.274	34.000	242.292	33.967	4.021	15.0	155.6	67	0.8	1.7	-3.8	2.2	0.0	0.0
5	242.292	33.967	242.352	33.909	8.495	15.0	139.2	61	1.1	1.7	-0.2	2.3	0.0	0.0
6	242.352	33.909	242.403	33.854	7.712	15.0	142.3	53	1.1	1.7	2.1	2.3	0.0	0.0
7	242.403	33.854	242.452	33.815	6.268	15.0	133.6	90	0.8	1.6	0.0	0.0	-2.6	1.8
8	242.452	33.815	242.499	33.782	5.687	15.0	130.1	90	4.1	0.5	0.0	0.0	0.0	0.0
9	242.499	33.782	242.561	33.734	7.832	15.0	132.8	90	4.1	0.5	0.0	0.0	0.2	0.0
10	242.561	33.734	242.611	33.669	8.571	15.0	147.2	90	4.0	0.5	0.0	0.0	1.2	0.1
11	242.611	33.669	242.646	33.646	4.129	15.0	128.2	90	4.1	0.5	0.0	0.0	-0.2	0.0
12	242.646	33.646	242.762	33.571	13.605	15.0	127.7	90	4.1	0.5	0.0	0.0	-0.3	0.0
13	242.762	33.571	242.804	33.519	6.963	15.0	145.9	90	4.0	0.5	0.0	0.0	1.0	0.1
14	242.804	33.519	242.844	33.487	5.139	15.0	133.7	90	4.1	0.5	0.0	0.0	0.1	0.0
15	242.844	33.487	242.934	33.420	11.191	15.0	131.6	90	4.1	0.5	0.0	0.0	-0.0	0.0
16	242.934	33.420	242.969	33.386	4.982	15.0	139.2	90	4.1	0.5	0.0	0.0	0.5	0.1
17	242.969	33.386	242.998	33.357	4.199	15.0	140.0	90	4.1	0.5	0.0	0.0	0.5	0.1
18	242.998	33.357	243.048	33.334	5.308	15.0	118.7	90	4.0	0.5	0.0	0.0	-1.0	0.1
19	243.048	33.334	243.156	33.281	11.650	15.0	120.3	90	4.0	0.5	0.0	0.0	-0.9	0.1
20	243.156	33.281	243.209	33.248	6.147	15.0	126.5	90	4.1	0.5	0.0	0.0	-0.5	0.1
21	243.209	33.248	243.268	33.204	7.353	15.0	131.6	90	4.1	0.5	0.0	0.0	-0.1	0.0
22	243.268	33.204	243.310	33.169	5.514	15.0	134.7	90	4.1	0.5	0.0	0.0	0.1	0.0
23	243.310	33.169	243.372	33.124	7.640	15.0	130.8	90	4.1	0.5	0.0	0.0	-0.2	0.0
24	243.372	33.124	243.447	33.071	9.142	15.0	130.0	90	4.1	0.5	0.0	0.0	-0.3	0.0
25	243.447	33.071	243.496	33.026	6.772	15.0	137.5	90	4.1	0.5	0.0	0.0	0.2	0.0

#	Lon-1	Lat-1	Lon-2	Lat-2	L(km)	Z(km)	strike	dip	U_s	S_s	U_d	S_d	U_t	S_t
26	243.496	33.026	243.544	32.992	5.860	15.0	130.0	90	4.1	0.5	0.0	0.0	-0.4	0.0
27	243.544	32.992	243.556	32.988	1.206	15.0	111.6	90	3.8	0.4	0.0	0.0	-1.7	0.2
28	243.556	32.988	243.687	32.969	12.425	15.0	99.7	90	3.4	0.4	0.0	0.0	-2.4	0.3
29	243.687	32.969	243.755	32.891	10.737	15.0	143.7	90	4.1	0.5	0.0	0.0	0.6	0.1
30	243.755	32.891	243.822	32.839	8.519	15.0	132.6	90	4.1	0.5	0.0	0.0	-0.3	0.0
31	243.822	32.839	243.901	32.816	7.825	15.0	109.0	90	3.7	0.4	0.0	0.0	-1.9	0.2
32	243.901	32.816	243.959	32.787	6.313	15.0	120.6	90	4.0	0.5	0.0	0.0	-1.2	0.1
33	243.959	32.787	244.106	32.653	20.267	15.0	137.1	90	4.2	0.5	0.0	0.0	-0.0	0.0
34	244.106	32.653	244.251	32.566	16.683	15.0	125.3	90	4.1	0.5	0.0	0.0	-0.9	0.1
35	244.251	32.566	244.435	32.391	25.995	15.0	138.2	90	4.2	0.5	0.0	0.0	-0.0	0.0
36	244.435	32.391	244.546	32.315	13.424	15.0	128.9	90	4.1	0.5	0.0	0.0	-0.8	0.1
37	244.546	32.315	245.007	32.136	47.773	15.0	114.4	90	3.8	0.4	0.0	0.0	-1.8	0.2

Whittier

1	241.862	34.118	241.883	34.086	4.044	15.0	151.4	90	11.0	1.8	0.0	0.0	0.0	0.0
2	241.883	34.086	241.931	34.028	7.812	15.0	145.4	90	11.0	1.8	0.0	0.0	0.5	0.3
3	241.931	34.028	241.952	33.997	3.948	15.0	150.6	90	10.8	1.8	0.0	0.0	3.1	0.8
4	241.952	33.997	242.008	33.973	5.819	15.0	117.2	111	11.1	1.8	5.9	2.7	0.0	0.0
5	242.008	33.973	242.148	33.931	13.754	15.0	109.8	90	10.8	1.8	0.0	0.0	-0.8	1.4
6	242.148	33.931	242.208	33.909	6.061	15.0	113.7	90	4.2	1.6	0.0	0.0	-2.7	1.1
7	242.208	33.909	242.283	33.875	7.896	15.0	118.5	90	4.4	1.6	0.0	0.0	-1.1	1.2
8	242.283	33.875	242.364	33.853	7.882	15.0	108.0	90	4.2	1.5	0.0	0.0	-0.6	1.5
9	242.364	33.853	242.410	33.831	4.907	15.0	119.8	90	4.1	1.6	0.0	0.0	1.4	1.7
10	242.410	33.831	242.452	33.815	4.274	15.0	114.5	90	4.3	1.6	0.0	0.0	1.8	1.9

Puente Hills

1	241.611	34.074	241.664	34.034	6.605	15.0	132.2	90	-6.8	1.6	0.0	0.0	-2.2	1.5
2	241.664	34.034	241.736	33.992	8.120	15.0	125.0	144	-7.1	1.6	2.6	1.7	0.0	0.0
3	241.736	33.992	241.798	33.960	6.740	15.0	121.8	145	-7.2	1.6	3.1	1.6	0.0	0.0
4	241.798	33.960	241.956	33.895	16.291	15.0	116.2	90	-7.4	1.6	0.0	0.0	-3.0	1.3
5	241.956	33.895	242.033	33.876	7.428	15.0	106.5	147	-8.0	1.7	3.5	1.8	0.0	0.0
6	242.033	33.876	242.084	33.892	5.041	15.0	69.4	148	-8.4	2.0	-2.3	1.5	0.0	0.0
7	242.084	33.892	242.148	33.931	7.331	15.0	53.8	90	-7.6	2.0	0.0	0.0	3.5	1.3

Raymond Hills

1	241.611	34.074	241.716	34.111	10.523	15.0	67.0	134	2.6	1.4	7.5	2.1	0.0	0.0
2	241.716	34.111	241.733	34.115	1.630	15.0	74.2	90	3.2	1.4	0.0	0.0	-4.3	1.3
3	241.733	34.115	241.778	34.123	4.245	15.0	77.9	90	3.5	1.5	0.0	0.0	-3.9	1.3
4	241.778	34.123	241.806	34.132	2.769	15.0	68.9	90	2.9	1.4	0.0	0.0	-4.1	1.3
5	241.806	34.132	241.838	34.128	2.985	15.0	98.5	90	4.5	1.5	0.0	0.0	-1.9	1.2
6	241.838	34.128	241.861	34.119	2.345	15.0	115.2	90	4.8	1.5	0.0	0.0	-0.4	1.2
7	241.861	34.119	241.877	34.120	1.480	15.0	85.7	90	0.1	1.4	0.0	0.0	7.6	2.0
8	241.877	34.120	241.947	34.140	6.828	15.0	71.0	90	2.0	1.4	0.0	0.0	6.5	1.9
9	241.947	34.140	242.025	34.164	7.670	15.0	69.7	90	2.1	1.4	0.0	0.0	5.0	1.8

Santa Monica

1	240.485	33.989	240.653	33.980	15.556	15.0	93.6	90	-1.7	1.0	0.0	0.0	7.9	2.3
2	240.653	33.980	240.740	33.985	8.058	15.0	86.0	90	-0.7	1.0	0.0	0.0	7.4	2.1
3	240.740	33.985	240.772	33.941	5.707	15.0	148.8	90	-6.7	1.8	0.0	0.0	2.5	1.3
4	240.772	33.941	240.855	33.977	8.649	15.0	62.5	130	1.9	1.2	-10.2	2.7	0.0	0.0
5	240.855	33.977	240.980	33.972	11.565	15.0	92.7	135	-1.5	1.0	-8.7	2.4	0.0	0.0
6	240.980	33.972	241.065	33.949	8.260	15.0	108.0	132	-3.0	1.1	-7.4	2.2	0.0	0.0
7	241.065	33.949	241.181	33.960	10.792	15.0	83.5	134	-0.8	1.0	-7.5	2.1	0.0	0.0
8	241.181	33.960	241.257	33.975	7.218	15.0	76.7	134	-0.2	1.0	-6.9	1.9	0.0	0.0
9	241.257	33.975	241.305	33.985	4.572	15.0	75.9	134	-0.1	1.0	-6.5	1.9	0.0	0.0
10	241.305	33.985	241.448	34.021	13.801	15.0	73.1	139	0.1	1.0	-5.3	1.7	0.0	0.0
11	241.448	34.021	241.459	34.032	1.588	15.0	39.8	90	1.6	0.9	0.0	0.0	1.4	1.1
12	241.459	34.032	241.525	34.036	6.111	15.0	85.8	116	0.2	1.0	-4.4	2.2	0.0	0.0

#	Lon-1	Lat-1	Lon-2	Lat-2	L(km)	Z(km)	strike	dip	U_s	S_s	U_d	S_d	U_t	S_t
13	241.525	34.036	241.566	34.052	4.181	15.0	64.9	90	0.8	0.9	0.0	0.0	1.5	1.0
14	241.566	34.052	241.611	34.074	4.818	15.0	59.6	136	0.9	0.9	-1.7	1.4	0.0	0.0

Malibu

1	239.489	34.022	239.569	33.991	8.151	15.0	114.9	90	1.7	0.7	0.0	0.0	-1.0	0.9
2	239.569	33.991	239.642	33.989	6.749	15.0	91.9	90	1.1	0.5	0.0	0.0	-1.8	1.0
3	239.642	33.989	239.700	33.986	5.369	15.0	93.5	90	1.2	0.5	0.0	0.0	-2.0	1.0
4	239.700	33.986	239.770	33.985	6.469	15.0	91.0	90	1.1	0.5	0.0	0.0	-2.2	1.0
5	239.770	33.985	239.820	33.974	4.779	15.0	104.8	90	1.6	0.6	0.0	0.0	-2.1	0.9
6	239.820	33.974	239.889	33.973	6.377	15.0	91.0	90	1.0	0.5	0.0	0.0	-2.6	0.9
7	239.889	33.973	240.034	33.987	13.489	15.0	83.3	90	0.6	0.5	0.0	0.0	-3.1	0.9
8	240.034	33.987	240.094	34.013	6.248	15.0	62.5	90	-0.6	0.5	0.0	0.0	-3.5	0.8
9	240.094	34.013	240.126	34.033	3.695	15.0	53.1	90	-1.2	0.5	0.0	0.0	-3.5	0.7
10	240.126	34.033	240.222	34.017	9.042	15.0	101.3	90	1.9	0.5	0.0	0.0	-3.4	0.7
11	240.222	34.017	240.275	34.007	5.020	15.0	102.8	90	2.0	0.5	0.0	0.0	-3.6	0.6
12	240.275	34.007	240.388	33.987	10.673	15.0	102.0	90	1.9	0.5	0.0	0.0	-3.9	0.6
13	240.388	33.987	240.485	33.989	8.965	15.0	88.6	90	0.9	0.5	0.0	0.0	-4.6	0.6

Oak Ridge

1	239.467	34.095	239.880	34.251	41.825	15.0	65.4	90	-4.8	0.6	0.0	0.0	-7.1	1.1
2	239.880	34.251	239.939	34.277	6.152	15.0	62.0	161	-5.2	0.6	6.3	1.0	0.0	0.0
3	239.939	34.277	240.021	34.306	8.206	15.0	66.9	159	-4.7	0.6	6.5	0.9	0.0	0.0
4	240.021	34.306	240.035	34.318	1.853	15.0	44.1	90	-6.6	0.7	0.0	0.0	-3.6	0.8
5	240.035	34.318	240.134	34.314	9.123	15.0	92.8	90	-1.7	0.6	0.0	0.0	-7.1	0.8
6	240.134	34.314	240.207	34.296	7.010	15.0	106.5	90	0.0	0.6	0.0	0.0	-7.0	0.8
7	240.207	34.296	240.259	34.264	5.960	15.0	126.5	90	2.4	0.7	0.0	0.0	-6.4	0.7
8	240.259	34.264	240.322	34.254	5.908	15.0	100.8	33	-0.6	0.6	7.8	0.8	0.0	0.0
9	240.322	34.254	240.394	34.263	6.706	15.0	81.4	33	-2.7	0.6	6.9	0.8	0.0	0.0
10	240.394	34.263	240.485	34.252	8.470	15.0	98.3	33	-0.9	0.6	7.2	0.8	0.0	0.0
11	240.485	34.252	240.568	34.236	7.849	15.0	103.0	90	-0.5	0.6	0.0	0.0	-5.8	0.6
12	240.568	34.236	240.649	34.233	7.470	15.0	92.5	32	-1.5	0.6	6.3	0.7	0.0	0.0
13	240.649	34.233	240.727	34.253	7.520	15.0	72.8	34	-3.2	0.6	5.2	0.7	0.0	0.0
14	240.727	34.253	240.801	34.264	6.924	15.0	79.8	90	-2.6	0.6	0.0	0.0	-4.3	0.6
15	240.801	34.264	240.907	34.317	11.393	15.0	58.9	90	-4.0	0.6	0.0	0.0	-2.8	0.6
16	240.907	34.317	240.957	34.351	5.949	15.0	50.6	90	-4.3	0.6	0.0	0.0	-1.9	0.7
17	240.957	34.351	241.015	34.347	5.355	15.0	94.7	68	-1.9	0.6	11.1	1.8	0.0	0.0
18	241.015	34.347	241.095	34.383	8.373	15.0	61.5	90	-3.8	0.6	0.0	0.0	-2.2	0.7
19	241.095	34.383	241.229	34.372	12.385	15.0	95.6	90	-2.0	0.6	0.0	0.0	-3.6	0.7
20	241.229	34.372	241.267	34.344	4.676	15.0	131.6	128	0.4	0.7	6.2	1.1	0.0	0.0
21	241.267	34.344	241.319	34.355	4.937	15.0	75.7	133	-2.9	0.6	3.3	1.2	0.0	0.0
22	241.319	34.355	241.388	34.310	8.077	15.0	128.2	121	0.0	0.7	6.7	1.4	0.0	0.0
23	241.388	34.310	241.453	34.302	6.049	15.0	98.4	126	-1.7	0.6	4.7	1.5	0.0	0.0
24	241.453	34.302	241.511	34.328	6.068	15.0	61.6	124	-2.9	0.7	1.8	1.6	0.0	0.0
25	241.511	34.328	241.562	34.335	4.757	15.0	80.6	90	-2.5	0.6	0.0	0.0	-1.7	1.0

Santa Ynez

1	239.357	34.460	239.693	34.514	31.439	15.0	78.9	90	-1.8	0.6	0.0	0.0	3.8	0.8
2	239.693	34.514	239.737	34.516	4.046	15.0	86.8	90	-2.2	0.5	0.0	0.0	3.1	0.7
3	239.737	34.516	239.792	34.526	5.170	15.0	77.6	90	-1.7	0.6	0.0	0.0	3.4	0.6
4	239.792	34.526	239.880	34.546	8.378	15.0	74.6	90	-1.5	0.6	0.0	0.0	3.3	0.6
5	239.880	34.546	239.969	34.564	8.409	15.0	76.2	90	-1.6	0.6	0.0	0.0	3.1	0.5
6	239.969	34.564	240.023	34.562	4.961	15.0	92.5	90	-2.4	0.5	0.0	0.0	2.4	0.5
7	240.023	34.562	240.065	34.549	4.116	15.0	110.5	90	-3.0	0.5	0.0	0.0	1.4	0.6
8	240.065	34.549	240.133	34.555	6.277	15.0	83.9	90	-2.1	0.5	0.0	0.0	2.5	0.5
9	240.133	34.555	240.194	34.550	5.626	15.0	95.6	70	-2.5	0.5	-5.6	1.4	0.0	0.0
10	240.194	34.550	240.268	34.522	7.470	15.0	114.6	90	-3.0	0.5	0.0	0.0	0.9	0.5
11	240.268	34.522	240.364	34.501	9.118	15.0	104.8	70	-2.8	0.5	-3.5	1.3	0.0	0.0
12	240.364	34.501	240.447	34.490	7.720	15.0	99.1	69	-2.7	0.5	-3.7	1.2	0.0	0.0

#	Lon-1	Lat-1	Lon-2	Lat-2	L(km)	Z(km)	strike	dip	U_s	S_s	U_d	S_d	U_t	S_t
13	240.447	34.490	240.499	34.491	4.778	15.0	88.7	69	-2.4	0.5	-4.7	1.2	0.0	0.0
14	240.499	34.491	240.565	34.500	6.143	15.0	80.6	90	-2.2	0.5	0.0	0.0	1.9	0.4
15	240.565	34.500	240.680	34.508	10.598	15.0	85.2	90	-2.3	0.5	0.0	0.0	1.5	0.4
16	240.680	34.508	240.770	34.531	8.649	15.0	72.8	90	-1.9	0.5	0.0	0.0	1.8	0.4
17	240.770	34.531	240.836	34.533	6.063	15.0	87.9	90	-2.3	0.5	0.0	0.0	1.1	0.5
18	240.836	34.533	241.028	34.582	18.440	15.0	72.8	90	-2.0	0.5	0.0	0.0	1.4	0.5
19	241.028	34.582	241.109	34.618	8.435	15.0	61.7	137	-1.7	0.6	-2.0	0.8	0.0	0.0
20	241.109	34.618	241.157	34.623	4.437	15.0	82.8	131	-2.1	0.5	-1.0	1.0	0.0	0.0
21	241.157	34.623	241.210	34.621	4.865	15.0	92.6	129	-2.1	0.5	-0.3	1.1	0.0	0.0
22	241.210	34.621	241.235	34.617	2.335	15.0	100.9	90	-2.1	0.6	0.0	0.0	-0.2	0.7

Hosgri

1	238.998	35.356	239.040	35.273	9.969	15.0	157.5	90	5.7	0.3	0.0	0.0	-2.7	0.3
2	239.040	35.273	239.084	35.194	9.636	15.0	155.4	90	5.6	0.3	0.0	0.0	-3.1	0.3
3	239.084	35.194	239.121	35.145	6.396	15.0	148.2	90	5.1	0.3	0.0	0.0	-3.9	0.3
4	239.121	35.145	239.134	35.110	4.060	15.0	163.0	90	6.0	0.3	0.0	0.0	-2.6	0.3
5	239.134	35.110	239.166	35.049	7.370	15.0	156.7	90	5.7	0.3	0.0	0.0	-3.3	0.3
6	239.166	35.049	239.195	34.977	8.415	15.0	161.7	90	5.9	0.3	0.0	0.0	-3.0	0.3
7	239.195	34.977	239.205	34.936	4.639	15.0	168.6	90	6.3	0.3	0.0	0.0	-2.4	0.3
8	239.205	34.936	239.234	34.895	5.264	15.0	149.8	90	5.1	0.3	0.0	0.0	-4.3	0.3
9	239.234	34.895	239.254	34.857	4.595	15.0	156.5	90	5.6	0.3	0.0	0.0	-3.8	0.3
10	239.254	34.857	239.267	34.797	6.762	15.0	169.9	90	6.4	0.3	0.0	0.0	-2.5	0.3
11	239.267	34.797	239.308	34.709	10.459	15.0	159.0	90	5.8	0.3	0.0	0.0	-3.8	0.4
12	239.308	34.709	239.312	34.665	4.895	15.0	175.7	90	6.6	0.3	0.0	0.0	-2.2	0.4
13	239.312	34.665	239.313	34.606	6.546	15.0	179.2	90	6.8	0.3	0.0	0.0	-1.9	0.4
14	239.313	34.606	239.335	34.533	8.346	15.0	166.0	90	6.1	0.3	0.0	0.0	-3.5	0.4
15	239.335	34.533	239.357	34.460	8.346	15.0	166.0	90	6.1	0.3	0.0	0.0	-3.7	0.4
16	239.357	34.460	239.379	34.387	8.347	15.0	166.0	90	10.3	0.9	0.0	0.0	-2.2	0.4
17	239.379	34.387	239.401	34.314	8.347	15.0	166.0	90	10.3	0.9	0.0	0.0	-2.2	0.4
18	239.401	34.314	239.423	34.241	8.347	15.0	165.9	90	10.3	0.9	0.0	0.0	-2.2	0.3
19	239.423	34.241	239.445	34.168	8.348	15.0	165.9	90	10.3	0.9	0.0	0.0	-2.2	0.3
20	239.445	34.168	239.467	34.095	8.348	15.0	165.9	90	10.3	0.9	0.0	0.0	-2.2	0.3
21	239.467	34.095	239.489	34.022	8.348	15.0	165.9	90	1.7	1.1	0.0	0.0	0.9	0.5

Santa Cruz-Santa Catalina

1	240.485	33.989	240.519	33.956	4.824	15.0	139.3	90	11.4	1.9	0.0	0.0	-6.8	1.7
2	240.519	33.956	240.637	33.893	12.957	15.0	122.6	90	9.0	1.4	0.0	0.0	-9.7	1.9
3	240.637	33.893	240.721	33.844	9.484	15.0	124.9	90	9.4	1.5	0.0	0.0	-9.1	1.7
4	240.721	33.844	240.797	33.791	9.169	15.0	129.9	90	10.1	1.6	0.0	0.0	-8.1	1.4
5	240.797	33.791	240.866	33.747	8.042	15.0	127.3	90	9.7	1.5	0.0	0.0	-8.3	1.3
6	240.866	33.747	240.908	33.716	5.194	15.0	131.4	90	10.3	1.6	0.0	0.0	-7.5	1.1
7	240.908	33.716	240.951	33.686	5.193	15.0	129.8	90	10.1	1.6	0.0	0.0	-7.7	1.1
8	240.951	33.686	240.990	33.652	5.225	15.0	136.2	90	10.8	1.6	0.0	0.0	-6.4	0.9
9	240.990	33.652	241.142	33.564	17.154	15.0	124.6	90	9.3	1.5	0.0	0.0	-8.2	1.0
10	241.142	33.564	241.152	33.528	4.099	15.0	166.9	90	12.3	1.5	0.0	0.0	0.3	0.9
11	241.152	33.528	241.202	33.500	5.588	15.0	123.8	90	9.3	1.6	0.0	0.0	-8.1	0.9
12	241.202	33.500	241.265	33.416	11.005	15.0	147.8	90	11.7	1.6	0.0	0.0	-3.5	0.9
13	241.265	33.416	241.354	33.360	10.351	15.0	126.8	90	9.8	1.6	0.0	0.0	-7.2	1.0
14	241.354	33.360	241.484	33.301	13.759	15.0	118.4	90	8.6	1.6	0.0	0.0	-8.4	1.1
15	241.484	33.301	241.659	33.249	17.293	15.0	109.4	90	7.2	1.7	0.0	0.0	-9.3	1.2
16	241.659	33.249	241.835	33.203	17.181	15.0	107.2	90	6.8	1.7	0.0	0.0	-9.2	1.4
17	241.835	33.203	241.907	33.191	6.844	15.0	101.2	90	5.8	1.8	0.0	0.0	-9.7	1.5
18	241.907	33.191	241.977	33.166	7.093	15.0	113.0	90	7.7	1.6	0.0	0.0	-8.1	1.8
19	241.977	33.166	242.042	33.114	8.369	15.0	133.5	90	10.0	1.3	0.0	0.0	-4.8	2.2
20	242.042	33.114	242.133	33.020	13.450	15.0	140.8	90	10.5	1.2	0.0	0.0	-3.3	2.4
21	242.133	33.020	242.144	33.003	2.147	15.0	151.4	90	10.9	1.2	0.0	0.0	-1.1	2.6
22	242.144	33.003	242.172	32.975	4.061	15.0	139.9	90	10.5	1.2	0.0	0.0	-3.2	2.6
23	242.172	32.975	242.230	32.935	7.006	15.0	129.3	90	9.7	1.4	0.0	0.0	-5.0	2.7

#	Lon-1	Lat-1	Lon-2	Lat-2	L(km)	Z(km)	strike	dip	U_s	S_s	U_d	S_d	U_t	S_t
24	242.230	32.935	242.301	32.830	13.407	15.0	150.3	90	10.8	1.2	0.0	0.0	-1.0	3.0
25	242.301	32.830	242.369	32.736	12.217	15.0	148.6	90	10.8	1.2	0.0	0.0	-1.0	3.3
26	242.369	32.736	242.396	32.685	6.197	15.0	155.9	90	10.8	1.2	0.0	0.0	0.5	3.5
27	242.396	32.685	242.455	32.604	10.552	15.0	148.3	90	10.8	1.2	0.0	0.0	-0.7	3.7
28	242.455	32.604	242.533	32.489	14.708	15.0	150.1	90	10.8	1.2	0.0	0.0	-0.1	3.9
29	242.533	32.489	242.556	32.455	4.346	15.0	150.2	90	10.8	1.2	0.0	0.0	0.1	4.1
30	242.556	32.455	242.570	32.449	1.475	15.0	116.8	90	9.1	2.4	0.0	0.0	-5.8	3.6
31	242.570	32.449	242.595	32.415	4.443	15.0	148.0	90	10.8	1.2	0.0	0.0	-0.2	4.3
32	242.595	32.415	242.647	32.320	11.616	15.0	155.1	90	10.7	1.2	0.0	0.0	1.2	4.4
33	242.647	32.320	242.670	32.265	6.472	15.0	160.4	90	10.6	1.4	0.0	0.0	2.4	4.6
34	242.670	32.265	242.756	32.169	13.381	15.0	142.7	90	10.8	1.3	0.0	0.0	-0.7	4.8
35	242.756	32.169	242.785	32.142	4.056	15.0	137.6	90	10.7	1.5	0.0	0.0	-1.5	5.0
36	242.785	32.142	242.832	32.070	9.134	15.0	150.9	90	10.8	1.2	0.0	0.0	1.1	5.2
37	242.832	32.070	242.889	32.023	7.493	15.0	134.1	90	10.7	1.8	0.0	0.0	-1.9	5.2
38	242.889	32.023	242.916	31.983	5.117	15.0	150.1	90	10.7	1.2	0.0	0.0	1.3	5.5
39	242.916	31.983	242.965	31.873	13.048	15.0	159.2	90	10.4	1.5	0.0	0.0	3.1	5.6
40	242.965	31.873	242.998	31.827	5.981	15.0	148.5	90	10.8	1.2	0.0	0.0	1.3	5.9
41	242.998	31.827	243.034	31.800	4.537	15.0	131.3	90	10.7	2.1	0.0	0.0	-1.8	5.8
42	243.034	31.800	243.103	31.755	8.223	15.0	127.3	90	10.6	2.5	0.0	0.0	-2.4	5.8
43	243.103	31.755	243.156	31.711	7.002	15.0	134.2	90	10.8	1.9	0.0	0.0	-1.0	6.1
44	243.156	31.711	243.199	31.686	4.930	15.0	124.2	90	10.5	2.8	0.0	0.0	-2.8	5.9
45	243.199	31.686	243.226	31.655	4.286	15.0	143.3	90	10.8	1.2	0.0	0.0	0.9	6.5
46	243.226	31.655	243.294	31.603	8.652	15.0	131.8	90	10.8	2.1	0.0	0.0	-1.1	6.4
47	243.294	31.603	243.361	31.581	6.811	15.0	111.0	90	9.7	4.1	0.0	0.0	-4.7	5.6

Palos Verdes

1	241.443	33.972	241.448	34.021	5.455	15.0	4.9	90	-1.2	1.2	0.0	0.0	-1.0	1.1
2	241.443	33.972	241.504	33.904	9.418	15.0	143.2	90	-1.6	1.6	0.0	0.0	0.0	0.0
3	241.504	33.904	241.561	33.865	6.820	15.0	129.3	90	-1.6	1.6	0.0	0.0	0.3	0.5
4	241.561	33.865	241.600	33.819	6.250	15.0	144.7	90	-1.6	1.6	0.0	0.0	-0.2	0.4
5	241.600	33.819	241.666	33.791	6.855	15.0	116.9	90	-1.5	1.5	0.0	0.0	0.5	0.9
6	241.666	33.791	241.746	33.749	8.753	15.0	122.1	90	-1.5	1.5	0.0	0.0	0.3	1.0
7	241.746	33.749	241.767	33.694	6.403	15.0	162.3	90	-1.4	1.6	0.0	0.0	-0.8	1.1
8	241.767	33.694	241.854	33.585	14.536	15.0	146.2	90	-1.5	1.7	0.0	0.0	-0.5	1.3
9	241.854	33.585	241.881	33.547	4.904	15.0	149.2	90	-1.5	1.7	0.0	0.0	-0.6	1.6
10	241.881	33.547	241.920	33.483	7.970	15.0	152.9	90	-1.5	1.7	0.0	0.0	-0.8	1.8
11	241.920	33.483	241.940	33.445	4.607	15.0	156.2	90	-1.4	1.7	0.0	0.0	-0.9	2.0
12	241.940	33.445	242.014	33.356	12.035	15.0	145.1	90	-1.6	1.6	0.0	0.0	-0.7	2.3
13	242.014	33.356	242.057	33.320	5.654	15.0	134.9	90	-1.7	1.7	0.0	0.0	-0.5	2.5
14	242.057	33.320	242.083	33.282	4.861	15.0	150.1	90	-1.5	1.7	0.0	0.0	-0.9	2.7
15	242.083	33.282	242.162	33.208	11.026	15.0	138.1	90	-1.7	1.7	0.0	0.0	-0.7	2.9
16	242.162	33.208	242.258	33.075	17.257	15.0	148.7	90	-1.5	1.7	0.0	0.0	-1.1	3.3
17	242.258	33.075	242.313	33.029	7.240	15.0	134.8	90	-1.7	1.7	0.0	0.0	-0.8	3.7
18	242.313	33.029	242.384	32.954	10.640	15.0	141.4	90	-1.6	1.7	0.0	0.0	-1.1	4.0
19	242.384	32.954	242.426	32.927	4.939	15.0	127.3	90	-1.8	2.0	0.0	0.0	-0.7	4.1
20	242.426	32.927	242.480	32.867	8.355	15.0	142.8	90	-1.6	1.6	0.0	0.0	-1.2	4.4
21	242.480	32.867	242.493	32.810	6.437	15.0	169.1	90	-0.9	2.5	0.0	0.0	-1.9	4.2
22	242.493	32.810	242.533	32.754	7.253	15.0	148.9	90	-1.5	1.7	0.0	0.0	-1.5	4.8
23	242.533	32.754	242.567	32.725	4.528	15.0	135.3	90	-1.8	1.8	0.0	0.0	-1.2	4.9
24	242.567	32.725	242.587	32.680	5.331	15.0	159.4	90	-1.1	2.1	0.0	0.0	-1.8	5.0
25	242.587	32.680	242.656	32.626	8.819	15.0	132.8	90	-1.9	1.9	0.0	0.0	-1.2	5.2
26	242.656	32.626	242.685	32.596	4.299	15.0	140.7	90	-1.7	1.7	0.0	0.0	-1.5	5.5
27	242.685	32.596	242.702	32.554	4.924	15.0	161.1	90	-1.0	2.3	0.0	0.0	-2.0	5.4
28	242.702	32.554	242.734	32.497	7.000	15.0	154.6	90	-1.3	1.9	0.0	0.0	-1.9	5.8
29	242.734	32.497	242.950	32.194	39.274	15.0	148.8	90	-1.5	1.7	0.0	0.0	-2.0	6.5
30	242.950	32.194	243.165	31.890	39.354	15.0	148.9	90	-1.5	1.7	0.0	0.0	-2.3	7.7
31	243.165	31.890	243.361	31.581	38.973	15.0	151.5	90	-1.4	1.8	0.0	0.0	-2.7	8.8

Lon-1 Lat-1 Lon-2 Lat-2 L(km) Z(km) strike dip U_s S_s U_d S_d U_t S_t

Oceanside

1	241.611	34.074	241.616	34.040	3.800	15.0	173.0	90	-2.2	1.1	0.0	0.0	2.1	1.0
2	241.616	34.040	241.640	33.989	6.076	15.0	158.6	90	-1.6	1.2	0.0	0.0	2.5	0.9
3	241.640	33.989	241.671	33.948	5.375	15.0	147.8	90	-1.1	1.2	0.0	0.0	2.6	0.8
4	241.671	33.948	241.749	33.877	10.680	15.0	137.5	90	-0.6	1.2	0.0	0.0	2.6	0.8
5	241.749	33.877	241.794	33.827	6.935	15.0	143.1	90	-0.9	1.2	0.0	0.0	2.3	0.8
6	241.794	33.827	241.850	33.789	6.682	15.0	129.1	90	-0.3	1.2	0.0	0.0	2.3	0.8
7	241.850	33.789	241.937	33.718	11.269	15.0	134.3	90	-0.5	1.2	0.0	0.0	2.0	0.8
8	241.937	33.718	242.007	33.674	8.120	15.0	126.9	90	-0.2	1.2	0.0	0.0	1.8	0.8
9	242.007	33.674	242.101	33.581	13.508	15.0	139.8	90	-0.6	1.2	0.0	0.0	1.5	0.9
10	242.101	33.581	242.117	33.572	1.790	15.0	123.9	90	-0.2	1.2	0.0	0.0	1.4	0.9
11	242.117	33.572	242.184	33.525	8.117	15.0	129.9	90	-0.4	1.2	0.0	0.0	1.3	0.9
12	242.184	33.525	242.209	33.503	3.369	15.0	136.4	90	-0.5	1.2	0.0	0.0	1.1	1.0
13	242.209	33.503	242.218	33.495	1.219	15.0	136.7	90	-0.5	1.2	0.0	0.0	1.0	1.0
14	242.218	33.495	242.225	33.486	1.191	15.0	146.9	90	-0.7	1.2	0.0	0.0	0.9	1.0
15	242.225	33.486	242.236	33.473	1.768	15.0	144.7	90	-0.7	1.2	0.0	0.0	0.9	1.0
16	242.236	33.473	242.246	33.460	1.716	15.0	147.2	90	-0.7	1.2	0.0	0.0	0.8	1.0
17	242.246	33.460	242.293	33.414	6.718	15.0	139.4	90	-0.6	1.2	0.0	0.0	0.8	1.0
18	242.293	33.414	242.390	33.310	14.648	15.0	141.9	90	-0.6	1.2	0.0	0.0	0.5	1.1
19	242.390	33.310	242.443	33.264	7.099	15.0	135.9	90	-0.6	1.2	0.0	0.0	0.3	1.2
20	242.443	33.264	242.513	33.222	8.016	15.0	125.5	90	-0.5	1.2	0.0	0.0	0.2	1.2
21	242.513	33.222	242.575	33.130	11.728	15.0	150.4	90	-0.5	1.2	0.0	0.0	-0.2	1.3
22	242.575	33.130	242.624	33.085	6.770	15.0	137.5	90	-0.6	1.2	0.0	0.0	-0.3	1.4
23	242.624	33.085	242.682	33.008	10.113	15.0	147.6	90	-0.5	1.2	0.0	0.0	-0.6	1.5
24	242.682	33.008	242.692	32.965	4.860	15.0	168.9	90	-0.2	1.3	0.0	0.0	-0.9	1.5
25	242.692	32.965	242.739	32.858	12.655	15.0	159.7	90	-0.4	1.2	0.0	0.0	-1.1	1.6
26	242.739	32.858	242.777	32.828	4.871	15.0	133.1	90	-0.9	1.2	0.0	0.0	-1.0	1.7
27	242.777	32.828	242.812	32.764	7.818	15.0	155.2	90	-0.4	1.2	0.0	0.0	-1.4	1.8
28	242.812	32.764	242.868	32.707	8.216	15.0	140.3	90	-0.8	1.2	0.0	0.0	-1.4	1.8
29	242.868	32.707	242.918	32.580	14.845	15.0	161.6	90	-0.2	1.3	0.0	0.0	-1.9	1.9
30	242.918	32.580	243.579	31.953	93.342	15.0	138.0	90	-1.0	1.2	0.0	0.0	-2.9	2.5
31	243.579	31.953	244.239	31.325	93.640	15.0	137.9	90	-1.1	1.2	0.0	0.0	-5.1	3.4

Palos Verdes-Oceanside connector

1	243.361	31.581	243.471	31.580	10.442	15.0	90.6	90	4.3	2.7	0.0	0.0	-7.9	1.9
2	243.471	31.580	243.546	31.571	7.189	15.0	98.0	90	5.2	2.5	0.0	0.0	-7.2	2.2
3	243.546	31.571	243.611	31.553	6.486	15.0	107.9	90	6.4	2.1	0.0	0.0	-6.1	2.6
4	243.611	31.553	243.677	31.527	6.899	15.0	114.7	90	7.1	1.9	0.0	0.0	-5.2	2.8
5	243.677	31.527	244.239	31.325	57.937	15.0	112.6	90	6.8	2.0	0.0	0.0	-5.1	3.1

j. White Wolf

1	240.594	34.942	240.695	34.932	9.294	15.0	96.8	60	-0.4	0.3	6.0	1.3	0.0	0.0
2	240.695	34.932	240.805	34.942	10.110	15.0	83.7	62	-1.1	0.4	5.9	1.2	0.0	0.0
3	240.805	34.942	240.884	34.985	8.649	15.0	56.5	48	-2.2	0.5	2.9	0.6	0.0	0.0
4	240.884	34.985	240.969	34.986	7.762	15.0	89.2	43	-0.8	0.3	3.8	0.7	0.0	0.0
5	240.969	34.986	240.993	35.029	5.249	15.0	24.7	75	-2.8	0.6	1.6	1.0	0.0	0.0
6	240.993	35.029	241.189	35.148	22.220	15.0	53.5	75	-2.3	0.5	6.3	1.1	0.0	0.0
7	241.189	35.148	241.221	35.179	4.509	15.0	40.3	75	-2.6	0.5	3.8	0.7	0.0	0.0
8	241.221	35.179	241.265	35.211	5.354	15.0	48.4	75	-2.4	0.5	5.0	0.8	0.0	0.0
9	241.265	35.211	241.328	35.234	6.278	15.0	66.0	75	-1.9	0.5	7.5	1.1	0.0	0.0
10	241.328	35.234	241.398	35.269	7.461	15.0	58.6	75	-2.2	0.5	6.3	0.9	0.0	0.0
11	241.398	35.269	241.462	35.322	8.274	15.0	44.7	75	-2.5	0.5	3.9	0.7	0.0	0.0
12	241.462	35.322	241.513	35.373	7.315	15.0	39.3	75	-2.6	0.5	2.8	0.8	0.0	0.0
13	241.513	35.373	241.893	35.674	47.992	15.0	45.8	75	-2.5	0.5	3.2	1.1	0.0	0.0
14	241.893	35.674	241.995	35.770	14.094	15.0	40.9	75	-2.5	0.5	1.5	1.8	0.0	0.0
15	241.995	35.770	242.105	35.880	15.741	15.0	39.1	75	-2.5	0.5	0.9	2.1	0.0	0.0

Lon-1 Lat-1 Lon-2 Lat-2 L(km) Z(km) strike dip U_s S_s U_d S_d U_t S_t

k. Garlock (west)

1	241.103	34.811	241.169	34.845	7.119	15.0	58.0	90	-1.7	0.5	0.0	0.0	-6.2	0.5
2	241.169	34.845	241.282	34.911	12.662	15.0	54.6	90	-2.1	0.5	0.0	0.0	-6.1	0.5
3	241.282	34.911	241.525	34.996	24.116	15.0	66.9	90	-0.7	0.5	0.0	0.0	-6.3	0.5
4	241.525	34.996	241.652	35.081	14.940	15.0	50.8	90	-2.5	0.5	0.0	0.0	-5.8	0.3
5	241.652	35.081	241.910	35.209	27.467	15.0	58.8	90	-1.6	0.5	0.0	0.0	-6.0	0.3
6	241.910	35.209	241.986	35.271	9.755	15.0	45.1	90	-3.0	0.6	0.0	0.0	-5.3	0.3

l. Garlock (central)

1	241.977	35.284	242.187	35.398	22.900	15.0	56.4	90	-3.8	2.1	0.0	0.0	3.5	2.5
2	242.187	35.398	242.309	35.441	12.063	15.0	66.7	90	-4.1	2.2	0.0	0.0	0.7	1.6
3	242.309	35.441	242.448	35.486	13.569	15.0	68.4	90	-4.1	2.2	0.0	0.0	-0.9	2.0
4	242.448	35.486	242.705	35.543	24.156	10.0	74.7	90	-1.3	1.0	0.0	0.0	-2.8	0.5
5	242.705	35.543	242.861	35.585	14.890	10.0	71.7	90	-1.4	1.0	0.0	0.0	-2.7	0.4
6	242.861	35.585	242.992	35.609	12.166	10.0	77.3	90	-1.2	0.9	0.0	0.0	-2.7	0.5

Garlock (east)

1	242.992	35.609	243.111	35.603	10.803	10.0	93.5	90	-4.0	0.8	0.0	0.0	2.5	0.8
2	243.111	35.603	243.220	35.609	9.899	10.0	86.1	90	-1.1	0.5	0.0	0.0	0.6	0.5
3	243.220	35.609	243.301	35.600	7.407	10.0	97.7	90	-1.2	0.5	0.0	0.0	0.4	0.5
4	243.301	35.600	243.608	35.596	27.824	10.0	90.8	90	-1.1	0.5	0.0	0.0	0.4	0.6

Garlock (east extension)

1	243.608	35.596	245.884	36.033	211.324	15.0	76.1	90	-2.2	0.2	0.0	0.0	-0.4	0.1
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North Frontal

1	242.470	34.311	242.537	34.312	6.168	15.0	89.0	90	-2.0	0.1	0.0	0.0	6.9	0.4
2	242.537	34.312	242.612	34.286	7.483	15.0	112.6	90	-4.6	0.2	0.0	0.0	5.0	0.3
3	242.612	34.286	242.649	34.288	3.414	15.0	86.3	90	-2.0	0.1	0.0	0.0	6.2	0.3
4	242.649	34.288	242.665	34.306	2.481	15.0	36.4	90	3.4	0.2	0.0	0.0	5.3	0.3
5	242.665	34.306	242.696	34.316	3.061	15.0	68.7	90	0.1	0.0	0.0	0.0	6.1	0.3
6	242.696	34.316	242.731	34.318	3.229	15.0	86.1	90	-1.7	0.1	0.0	0.0	5.6	0.3
7	242.731	34.318	242.799	34.371	8.586	15.0	46.8	56	2.1	0.1	-8.9	0.5	0.0	0.0
8	242.799	34.371	242.855	34.444	9.596	15.0	32.4	51	3.2	0.2	-5.8	0.3	0.0	0.0
9	242.855	34.444	242.940	34.422	8.185	15.0	107.3	48	-2.3	0.1	-5.5	0.3	0.0	0.0
10	242.940	34.422	243.011	34.382	7.893	15.0	124.2	54	-3.2	0.2	-3.8	0.2	0.0	0.0
11	243.011	34.382	243.062	34.365	5.056	15.0	111.9	50	-2.7	0.1	-3.7	0.2	0.0	0.0
12	243.062	34.365	243.126	34.367	5.891	15.0	87.8	44	-1.6	0.1	-4.0	0.2	0.0	0.0
13	243.126	34.367	243.143	34.377	1.917	15.0	54.6	90	0.2	0.0	0.0	0.0	3.0	0.2
14	243.143	34.377	243.200	34.337	6.869	15.0	130.2	90	-2.8	0.1	0.0	0.0	0.6	0.0
15	243.200	34.337	243.290	34.346	8.341	15.0	83.1	42	-1.7	0.1	-2.7	0.1	0.0	0.0
16	243.290	34.346	243.357	34.340	6.201	15.0	96.1	39	-2.0	0.1	-1.3	0.1	0.0	0.0
17	243.357	34.340	243.411	34.321	5.398	15.0	113.0	41	-2.2	0.1	-0.0	0.0	0.0	0.0
18	243.411	34.321	243.475	34.310	6.016	15.0	101.7	42	-2.2	0.1	0.0	0.0	0.0	0.0
19	243.475	34.310	243.565	34.309	8.285	15.0	90.7	90	-2.2	0.1	0.0	0.0	-0.1	0.0

Eureka Peak

1	243.580	34.131	243.638	34.066	8.979	15.0	143.4	90	15.1	0.2	0.0	0.0	-2.5	0.1
2	243.638	34.066	243.671	34.008	7.119	15.0	154.6	90	15.4	0.2	0.0	0.0	0.0	0.0
3	243.671	34.008	243.817	33.794	27.309	15.0	150.3	90	15.3	0.2	0.0	0.0	-2.3	0.0
4	243.817	33.794	243.876	33.699	11.871	15.0	152.6	90	15.4	0.2	0.0	0.0	-3.0	0.1

Pinto Mountain

1	243.580	34.131	243.712	34.143	12.248	15.0	83.7	90	-7.2	0.3	0.0	0.0	8.1	0.3
2	243.712	34.143	243.765	34.145	4.893	15.0	87.4	90	-7.7	0.3	0.0	0.0	7.5	0.3
3	243.765	34.145	243.849	34.142	7.754	15.0	92.4	90	-8.3	0.3	0.0	0.0	6.7	0.4
4	243.849	34.142	244.021	34.116	16.126	15.0	100.3	90	-8.7	0.4	0.0	0.0	5.0	0.3

Lon-1 Lat-1 Lon-2 Lat-2 L(km) Z(km) strike dip U_s S_s U_d S_d U_t S_t

o. Johnson Valley-Lockhart

1	241.986	35.271	242.403	35.110	41.969	10.0	115.1	90	5.3	0.4	0.0	0.0	-2.9	0.6
2	242.403	35.110	242.488	35.076	8.620	10.0	115.9	90	5.3	0.4	0.0	0.0	-2.9	0.5
3	242.488	35.076	242.628	35.008	14.835	10.0	120.5	90	5.5	0.4	0.0	0.0	-2.6	0.5
4	242.628	35.008	242.793	34.929	17.432	10.0	120.1	90	5.5	0.4	0.0	0.0	-2.7	0.4
5	242.793	34.929	242.919	34.868	13.358	10.0	120.4	90	5.5	0.4	0.0	0.0	-2.8	0.4
6	242.919	34.868	243.072	34.765	18.070	10.0	129.2	90	5.9	0.4	0.0	0.0	-2.0	0.3
7	243.072	34.765	243.317	34.635	26.680	10.0	122.6	90	5.6	0.4	0.0	0.0	-2.8	0.2
8	243.317	34.635	243.423	34.565	12.444	10.0	128.6	90	5.8	0.4	0.0	0.0	-2.3	0.2
9	243.423	34.565	243.489	34.468	12.350	10.0	150.6	90	6.3	0.5	0.0	0.0	-0.0	0.0
10	243.489	34.468	243.565	34.309	18.972	10.0	158.4	90	6.2	0.5	0.0	0.0	0.8	0.1
11	243.565	34.309	243.571	34.275	3.812	15.0	171.7	90	6.0	0.5	0.0	0.0	-0.2	0.3
12	243.571	34.195	243.571	34.275	8.874	15.0	0.0	90	6.0	0.4	0.0	0.0	0.1	0.3
13	243.571	34.195	243.579	34.170	2.870	15.0	165.1	90	5.7	0.5	0.0	0.0	-1.9	0.3
14	243.579	34.170	243.580	34.131	4.327	15.0	178.8	90	6.0	0.4	0.0	0.0	-0.8	0.4

p. Calico-Blackwater

1	242.448	35.486	242.587	35.451	13.200	5.0	107.1	90	0.4	0.4	0.0	0.0	-0.4	0.4
2	242.587	35.451	242.687	35.368	12.935	5.0	135.4	90	0.5	0.5	0.0	0.0	-0.2	0.1
3	242.687	35.368	242.786	35.229	17.858	5.0	149.7	90	0.6	0.5	0.0	0.0	0.0	0.0
4	242.786	35.229	242.872	35.108	15.543	5.0	149.7	90	0.6	0.5	0.0	0.0	0.0	0.0
5	242.872	35.108	242.967	35.049	10.859	5.0	127.0	90	0.5	0.5	0.0	0.0	-0.2	0.2
6	242.967	35.049	243.063	34.990	10.937	5.0	126.7	90	0.5	0.5	0.0	0.0	-0.2	0.2
7	243.063	34.990	243.115	34.954	6.205	5.0	130.1	90	0.5	0.5	0.0	0.0	-0.2	0.1
8	243.115	34.954	243.233	34.922	11.350	5.0	108.2	90	0.4	0.4	0.0	0.0	-0.3	0.3
9	243.233	34.922	243.333	34.836	13.214	5.0	136.2	90	0.5	0.5	0.0	0.0	-0.1	0.1
10	243.333	34.836	243.381	34.768	8.729	5.0	149.8	90	0.5	0.5	0.0	0.0	0.1	0.1
11	243.381	34.768	243.472	34.668	13.876	5.0	143.1	90	0.5	0.5	0.0	0.0	0.0	0.0
12	243.472	34.668	243.551	34.586	11.629	5.0	141.4	90	0.5	0.5	0.0	0.0	-0.0	0.0
13	243.551	34.586	243.664	34.478	15.848	5.0	139.1	90	0.5	0.5	0.0	0.0	-0.0	0.0
14	243.664	34.478	243.672	34.435	4.826	5.0	171.2	90	0.5	0.4	0.0	0.0	0.3	0.3
15	243.672	34.435	243.729	34.389	7.314	5.0	134.2	90	0.5	0.5	0.0	0.0	-0.0	0.0
16	243.729	34.389	243.751	34.335	6.323	5.0	161.3	90	0.5	0.5	0.0	0.0	0.2	0.2
17	243.751	34.335	243.777	34.296	4.944	5.0	151.0	90	0.5	0.5	0.0	0.0	0.1	0.1
18	243.777	34.296	243.803	34.231	7.597	5.0	161.6	90	0.5	0.5	0.0	0.0	0.2	0.2
19	243.803	34.231	243.849	34.142	10.745	5.0	156.7	90	0.5	0.5	0.0	0.0	0.2	0.2

q. Goldstone-Billion

1	242.992	35.609	243.032	35.489	13.799	10.0	164.7	90	6.3	0.5	0.0	0.0	1.8	0.2
2	243.032	35.489	243.075	35.455	5.428	10.0	134.0	90	6.4	0.5	0.0	0.0	-1.6	0.1
3	243.075	35.455	243.118	35.397	7.527	10.0	148.7	90	6.6	0.6	0.0	0.0	0.2	0.0
4	243.118	35.397	243.262	35.226	23.053	10.0	145.3	90	6.6	0.6	0.0	0.0	-0.0	0.0
5	243.262	35.226	243.309	35.179	6.746	10.0	140.6	90	6.6	0.6	0.0	0.0	-0.4	0.0
6	243.309	35.179	243.517	34.814	44.724	10.0	154.8	90	6.5	0.5	0.0	0.0	1.6	0.1
7	243.517	34.814	243.553	34.767	6.168	10.0	147.7	90	6.7	0.6	0.0	0.0	1.1	0.1
8	243.553	34.767	243.602	34.685	10.144	10.0	153.7	90	6.5	0.5	0.0	0.0	1.9	0.2
9	243.602	34.685	243.616	34.636	5.585	10.0	166.7	90	5.9	0.5	0.0	0.0	3.4	0.3
10	243.616	34.636	243.626	34.587	5.513	10.0	170.4	90	5.7	0.5	0.0	0.0	3.8	0.3
11	243.626	34.587	243.742	34.489	15.218	10.0	135.6	90	6.9	0.6	0.0	0.0	-0.0	0.0
12	243.742	34.489	243.873	34.359	18.788	10.0	140.1	90	6.8	0.6	0.0	0.0	0.7	0.1
13	243.873	34.359	243.910	34.247	12.882	10.0	164.7	90	5.9	0.5	0.0	0.0	3.7	0.3
14	243.910	34.247	243.987	34.143	13.545	10.0	148.4	90	6.7	0.6	0.0	0.0	2.1	0.2
15	243.987	34.143	244.021	34.116	4.337	15.0	133.7	90	7.0	0.6	0.0	0.0	0.4	0.0

r. Ludlow

1	243.608	35.596	243.643	35.246	38.962	10.0	175.3	90	2.1	0.3	0.0	0.0	1.7	0.3
2	243.643	35.246	243.699	35.173	9.570	10.0	147.8	90	2.7	0.3	0.0	0.0	0.6	0.2
3	243.699	35.173	243.818	35.067	15.999	10.0	137.3	90	2.7	0.3	0.0	0.0	0.2	0.1

#	Lon-1	Lat-1	Lon-2	Lat-2	L(km)	Z(km)	strike	dip	U_s	S_s	U_d	S_d	U_t	S_t
4	243.749	34.961	243.818	35.067	13.340	10.0	28.2	90	0.7	0.1	0.0	0.0	2.7	0.3
5	243.749	34.961	243.797	34.909	7.246	10.0	142.7	90	2.7	0.3	0.0	0.0	0.5	0.1
6	243.783	34.826	243.797	34.909	9.296	10.0	7.9	90	1.6	0.2	0.0	0.0	2.3	0.3
7	243.783	34.826	243.811	34.785	5.220	10.0	150.6	90	2.7	0.3	0.0	0.0	0.9	0.2
8	243.811	34.785	243.839	34.707	9.025	10.0	163.5	90	2.4	0.3	0.0	0.0	1.5	0.2
9	243.839	34.707	244.123	34.443	39.202	10.0	138.3	90	2.8	0.3	0.0	0.0	0.4	0.2
10	244.021	34.116	244.123	34.443	37.470	10.0	14.5	90	1.2	0.3	0.0	0.0	2.6	0.4

Sierra Nevada

1	242.046	35.973	242.105	35.880	11.612	10.0	152.7	90	-0.5	1.7	0.0	0.0	7.9	4.1
2	242.096	35.761	242.105	35.880	13.229	10.0	3.5	90	-1.9	1.6	0.0	0.0	3.7	3.4
3	242.096	35.761	242.131	35.686	8.904	10.0	159.2	90	-0.6	1.6	0.0	0.0	2.8	2.5
4	242.091	35.612	242.131	35.686	8.974	10.0	23.8	90	-2.0	1.6	0.0	0.0	0.6	1.9
5	241.996	35.570	242.091	35.612	9.790	10.0	61.5	90	-1.6	1.8	0.0	0.0	-1.8	1.8
6	241.966	35.540	241.996	35.570	4.299	10.0	39.2	90	-2.4	1.9	0.0	0.0	-1.9	1.9
7	241.949	35.428	241.966	35.540	12.522	10.0	7.1	90	-3.2	2.2	0.0	0.0	-1.4	1.9
8	241.949	35.428	241.960	35.349	8.822	10.0	173.5	90	-3.6	2.5	0.0	0.0	-2.0	2.2
9	241.960	35.349	241.971	35.298	5.746	10.0	170.0	90	-3.8	2.6	0.0	0.0	-2.7	2.6
10	241.971	35.298	241.977	35.284	1.646	10.0	160.6	90	-4.2	2.9	0.0	0.0	-2.5	2.5
11	241.977	35.284	241.986	35.271	1.659	10.0	150.4	90	-0.1	0.5	0.0	0.0	2.3	0.6

Owens Valley

1	241.573	37.793	241.620	37.951	18.018	10.0	13.3	90	2.4	1.4	0.0	0.0	1.2	1.8
2	241.573	37.793	241.596	37.434	39.897	10.0	177.1	90	2.6	1.0	0.0	0.0	0.0	2.0
3	241.596	37.434	241.671	37.236	22.958	10.0	163.1	90	2.5	0.7	0.0	0.0	-1.1	2.2
4	241.671	37.236	241.803	36.933	35.616	10.0	160.7	90	2.4	0.7	0.0	0.0	-1.7	2.3
5	241.803	36.933	241.840	36.852	9.575	10.0	159.8	90	2.4	0.7	0.0	0.0	-2.2	2.5
6	241.840	36.852	241.881	36.776	9.193	10.0	156.5	90	2.2	0.6	0.0	0.0	-2.5	2.6
7	241.881	36.776	241.917	36.696	9.442	10.0	160.1	90	2.4	0.7	0.0	0.0	-2.5	2.7
8	241.917	36.696	241.930	36.637	6.650	10.0	169.9	90	2.8	0.9	0.0	0.0	-2.2	2.7
9	241.930	36.637	241.957	36.554	9.522	10.0	165.3	90	2.6	0.8	0.0	0.0	-2.5	2.8
10	241.957	36.554	241.980	36.507	5.608	10.0	158.4	90	2.3	0.6	0.0	0.0	-3.0	2.9
11	241.967	36.410	241.980	36.507	10.827	10.0	6.2	90	3.4	1.5	0.0	0.0	-1.7	2.6
12	241.967	36.410	241.977	36.350	6.718	10.0	172.3	90	1.0	0.4	0.0	0.0	4.2	0.4
13	241.960	36.295	241.977	36.350	6.291	10.0	14.0	90	-0.6	0.4	0.0	0.0	4.2	0.3
14	241.960	36.295	242.010	36.221	9.360	10.0	151.3	90	2.4	0.4	0.0	0.0	3.4	0.4
15	241.991	36.126	242.010	36.221	10.679	10.0	9.2	90	-0.2	0.4	0.0	0.0	4.1	0.4
16	241.991	36.126	242.015	36.082	5.339	10.0	156.1	90	2.0	0.4	0.0	0.0	3.4	0.4
17	242.015	36.082	242.046	35.973	12.413	10.0	167.0	90	1.3	0.4	0.0	0.0	3.6	0.4
18	242.046	35.973	242.119	35.897	10.701	10.0	142.0	90	1.6	2.4	0.0	0.0	-5.3	3.9
19	242.119	35.897	242.171	35.834	8.421	10.0	146.1	90	1.9	2.2	0.0	0.0	-4.0	3.2
20	242.171	35.834	242.346	35.610	29.469	10.0	147.4	90	2.0	2.2	0.0	0.0	-1.6	1.9
21	242.346	35.610	242.448	35.486	16.578	10.0	146.1	90	2.0	2.2	0.0	0.0	1.2	1.9

m. Panamint Valley

1	241.946	37.150	242.060	37.483	38.314	10.0	15.3	90	1.7	1.2	0.0	0.0	2.8	1.4
2	241.946	37.150	242.048	36.925	26.568	10.0	160.0	90	3.0	0.6	0.0	0.0	1.4	1.5
3	242.048	36.925	242.106	36.773	17.644	10.0	162.9	90	2.9	0.7	0.0	0.0	1.6	1.2
4	242.106	36.773	242.139	36.739	4.787	10.0	142.0	90	3.3	0.5	0.0	0.0	0.5	1.2
5	242.139	36.739	242.180	36.674	8.090	10.0	153.1	90	3.1	0.6	0.0	0.0	1.1	1.1
6	242.180	36.674	242.294	36.636	11.031	10.0	112.4	90	3.1	0.7	0.0	0.0	-1.2	1.0
7	242.294	36.636	242.342	36.615	4.885	10.0	118.5	90	3.2	0.7	0.0	0.0	-0.8	1.0
8	242.342	36.615	242.388	36.574	6.135	10.0	137.9	90	3.3	0.6	0.0	0.0	0.3	1.0
9	242.388	36.574	242.437	36.540	5.786	10.0	130.7	90	3.3	0.6	0.0	0.0	-0.1	0.9
10	242.437	36.540	242.525	36.498	9.157	10.0	120.6	90	3.3	0.6	0.0	0.0	-0.6	0.9
11	242.525	36.498	242.592	36.436	9.132	10.0	138.9	90	3.3	0.6	0.0	0.0	0.5	0.9
12	242.592	36.436	242.640	36.366	8.881	10.0	151.0	90	3.1	0.6	0.0	0.0	1.2	0.8
13	242.640	36.366	242.677	36.315	6.562	10.0	149.6	90	3.2	0.6	0.0	0.0	1.1	0.8

#	Lon-1	Lat-1	Lon-2	Lat-2	L(km)	Z(km)	strike	dip	U_s	S_s	U_d	S_d	U_t	S_t
14	242.677	36.315	242.706	36.283	4.404	10.0	143.7	90	3.3	0.6	0.0	0.0	0.8	0.8
15	242.706	36.283	242.772	36.237	7.825	10.0	130.7	90	3.4	0.5	0.0	0.0	0.0	0.8
16	242.772	36.237	242.797	36.195	5.174	10.0	154.2	90	3.1	0.6	0.0	0.0	1.4	0.7
17	242.790	36.126	242.797	36.195	7.682	10.0	4.7	90	1.9	0.7	0.0	0.0	2.8	0.5
18	242.790	36.126	242.807	36.079	5.435	10.0	163.6	90	2.8	0.7	0.0	0.0	1.9	0.6
19	242.793	36.041	242.807	36.079	4.401	10.0	16.7	90	1.3	0.8	0.0	0.0	3.1	0.5
20	242.780	35.997	242.793	36.041	5.021	10.0	13.5	90	1.5	0.8	0.0	0.0	3.1	0.5
21	242.780	35.997	242.815	35.894	11.857	10.0	164.5	90	2.8	0.6	0.0	0.0	2.0	0.6
22	242.815	35.894	242.862	35.795	11.777	10.0	158.9	90	3.0	0.6	0.0	0.0	1.8	0.7
23	242.862	35.795	242.886	35.748	5.648	10.0	157.4	90	3.0	0.6	0.0	0.0	1.7	0.7
24	242.886	35.748	242.952	35.686	9.110	10.0	139.0	90	3.4	0.5	0.0	0.0	0.7	0.9
25	242.952	35.686	243.070	35.639	11.889	10.0	116.0	90	3.4	0.5	0.0	0.0	-0.7	0.9
26	243.070	35.639	243.111	35.603	5.454	10.0	137.1	90	3.4	0.5	0.0	0.0	0.6	1.0

n. Death Valley

1	241.620	37.951	242.060	37.483	64.832	10.0	143.1	90	6.1	0.6	0.0	0.0	-3.0	1.4
2	242.060	37.483	242.347	37.296	32.813	10.0	129.1	90	2.1	0.8	0.0	0.0	-3.6	1.3
3	242.347	37.296	242.452	37.188	15.181	10.0	142.1	90	2.8	0.6	0.0	0.0	-2.8	1.2
4	242.452	37.188	242.557	37.080	15.189	10.0	142.1	90	2.8	0.6	0.0	0.0	-2.7	1.1
5	242.557	37.080	242.593	37.054	4.310	10.0	132.0	90	2.3	0.7	0.0	0.0	-3.1	1.0
6	242.593	37.054	242.687	36.960	13.372	10.0	141.2	90	2.8	0.6	0.0	0.0	-2.6	1.0
7	242.687	36.960	242.717	36.914	5.762	10.0	152.4	90	3.2	0.5	0.0	0.0	-1.9	0.9
8	242.717	36.914	242.755	36.878	5.238	10.0	139.7	90	2.7	0.6	0.0	0.0	-2.6	0.8
9	242.755	36.878	242.820	36.799	10.511	10.0	146.5	90	3.0	0.5	0.0	0.0	-2.2	0.8
10	242.820	36.799	242.844	36.760	4.829	10.0	153.7	90	3.2	0.5	0.0	0.0	-1.7	0.8
11	242.844	36.760	242.900	36.709	7.553	10.0	138.5	90	2.7	0.6	0.0	0.0	-2.5	0.7
12	242.900	36.709	243.012	36.625	13.680	10.0	132.9	90	2.4	0.6	0.0	0.0	-2.6	0.6
13	243.012	36.625	243.056	36.595	5.155	10.0	130.2	90	2.3	0.6	0.0	0.0	-2.7	0.5
14	243.056	36.595	243.108	36.563	5.854	10.0	127.3	90	2.2	0.6	0.0	0.0	-2.7	0.5
15	243.108	36.563	243.121	36.535	3.318	10.0	159.5	90	3.3	0.5	0.0	0.0	-1.1	0.6
16	243.121	36.535	243.156	36.447	10.256	10.0	162.2	90	3.3	0.5	0.0	0.0	-0.9	0.5
17	243.156	36.447	243.173	36.398	5.647	10.0	164.3	90	3.4	0.5	0.0	0.0	-0.7	0.5
18	243.173	36.398	243.214	36.336	7.802	10.0	151.8	90	3.1	0.5	0.0	0.0	-1.4	0.4
19	243.214	36.336	243.229	36.301	4.111	10.0	160.9	90	3.3	0.5	0.0	0.0	-0.8	0.4
20	243.229	36.301	243.230	36.263	4.218	10.0	178.8	90	3.4	0.4	0.0	0.0	0.2	0.4
21	243.230	36.263	243.242	36.153	12.254	10.0	174.9	90	3.4	0.5	0.0	0.0	0.1	0.4
22	243.242	36.153	243.243	36.054	10.986	10.0	179.5	90	3.4	0.4	0.0	0.0	0.5	0.3
23	243.243	36.054	243.276	36.003	6.393	10.0	152.3	90	3.2	0.5	0.0	0.0	-1.1	0.2
24	243.276	36.003	243.292	35.926	8.665	10.0	170.4	90	3.4	0.5	0.0	0.0	0.0	0.1
25	243.292	35.926	243.336	35.877	6.733	10.0	143.8	90	3.1	0.4	0.0	0.0	-1.4	0.2
26	243.336	35.877	243.384	35.846	5.534	10.0	128.4	90	2.6	0.4	0.0	0.0	-2.1	0.3
27	243.384	35.846	243.399	35.791	6.251	10.0	167.5	90	3.3	0.5	0.0	0.0	-0.0	0.0
28	243.399	35.791	243.445	35.723	8.616	10.0	151.1	90	3.2	0.5	0.0	0.0	-0.9	0.2
29	243.445	35.723	243.484	35.703	4.169	10.0	122.2	90	2.4	0.3	0.0	0.0	-2.3	0.4
30	243.484	35.703	243.516	35.675	4.248	10.0	137.0	90	2.9	0.4	0.0	0.0	-1.6	0.3
31	243.516	35.675	243.551	35.627	6.198	10.0	149.2	90	3.2	0.5	0.0	0.0	-0.9	0.3
32	243.551	35.627	243.601	35.603	5.255	10.0	120.4	90	2.4	0.3	0.0	0.0	-2.2	0.5
33	243.601	35.603	243.608	35.596	1.003	10.0	140.8	90	3.0	0.4	0.0	0.0	-1.3	0.4

Table DR2. Nominally interseismic GPS velocity field used to constrain the block model. Columns give: station name, longitude, latitude, east velocity, north velocity, east uncertainty, north uncertainty

Station	Lon.	Lat.	V_e	V_n	S_e	S_n
0047_GPS	240.020	43.590	-2.069	1.357	0.610	0.600
02EX_GPS	239.750	40.130	-7.124	4.575	1.000	0.900
02FS_GPS	238.960	40.300	-6.575	5.905	0.700	0.600
02SS_GPS	238.960	41.510	-7.652	4.905	0.700	0.800
1008_GPS	240.360	38.330	-8.156	8.351	1.200	0.900
10BB_GPS	240.300	39.280	-7.764	6.353	0.800	0.900
3756_GPS	241.860	39.540	-6.805	3.588	0.800	0.900
43JD_GPS	240.340	39.850	-5.802	4.052	0.500	0.500
61RB_GPS	242.730	39.980	0.316	0.049	0.900	0.900
6683_GPS	242.390	38.880	-3.330	0.464	0.800	0.800
6FMK_GPS	243.290	41.220	-3.402	-0.177	0.700	0.700
79JR_GPS	243.170	39.970	-1.048	1.828	0.900	0.900
7MIR_GPS	239.310	43.170	-1.649	2.392	0.900	0.900
A210_GPS	239.860	39.360	-10.393	6.571	0.700	0.700
A250_GPS	240.230	39.100	-10.088	6.156	0.700	0.600
A255_GPS	240.350	39.220	-6.366	8.751	0.800	0.800
A275_GPS	240.590	39.350	-6.932	5.342	0.600	0.700
A290_GPS	240.810	39.430	-4.905	5.233	0.600	0.700
A295_GPS	240.920	39.460	-4.493	2.528	0.900	0.800
A300_GPS	240.080	38.780	-11.033	9.262	0.500	0.500
A435_GPS	241.930	38.690	-3.788	2.785	1.000	0.900
ADIN_GPS	239.050	41.180	-6.178	8.602	1.000	0.900
AGGI_GPS	241.870	39.000	-4.361	1.987	0.700	0.600
ALKA_GPS	239.980	41.550	-2.657	3.866	0.700	0.800
ALTU_GPS	239.500	41.510	-4.822	3.388	0.755	0.658
AURO_GPS	241.080	38.330	-5.596	6.721	1.300	0.800
B200_GPS	241.060	39.510	-6.076	3.522	0.600	0.600
B210_GPS	241.130	39.490	-5.772	2.419	0.800	0.700
B220_GPS	241.350	39.400	-8.063	2.510	0.800	0.700
B270_GPS	241.830	39.290	-4.234	1.389	0.900	0.700
B280_GPS	241.980	39.270	-2.723	0.483	0.800	0.700
B285_GPS	242.050	39.300	-2.014	4.579	2.000	1.600
B290_GPS	242.140	39.280	-4.909	-0.225	0.800	0.700
B300_GPS	240.760	38.990	-8.055	5.335	0.400	0.400
B387_GPS	241.860	39.670	-5.891	3.488	0.800	0.900
B428_GPS	244.890	41.100	-2.277	-0.556	0.800	0.900
BAMO_GPS	242.800	40.410	-4.432	1.446	0.600	0.600
BATT_GPS	243.130	40.610	-3.082	0.530	0.600	0.600
BEAV_GPS	238.200	43.130	-2.723	7.111	0.500	0.512
BELL_GPS	241.970	40.940	-4.347	1.283	1.000	0.800
BEOW_GPS	243.580	40.660	-3.038	0.309	0.800	0.900
BISC_GPS	239.660	40.560	-7.588	3.979	1.000	1.000
BLAB_GPS	240.940	39.580	-4.579	3.427	0.500	0.400
BLAC_GPS	241.800	41.450	-2.607	1.090	0.800	1.000
BLCK_GPS	238.240	44.290	-0.732	5.431	0.700	0.700
BLMT_GPS	242.190	42.310	-4.180	1.473	0.600	0.700
BNKS_GPS	244.080	40.770	-3.383	0.785	0.900	0.900
BNTA_GPS	242.530	39.010	-3.205	0.458	0.600	0.600
BORA_GPS	241.540	39.330	-4.554	2.502	0.600	0.700
BR02_GPS	237.670	44.170	1.002	2.351	1.300	1.200
BRAM_GPS	241.420	41.830	-2.100	1.107	0.800	0.900
BROT_GPS	239.400	43.810	-0.777	2.485	0.557	0.536
BUFF_GPS	242.190	39.150	-3.518	1.173	0.600	0.600
BURR_GPS	240.080	40.550	-5.652	2.462	0.700	0.800

BUTN_GPS	242.430	41.010	-1.999	-0.538	0.800	0.900
BX46_GPS	241.690	39.270	-4.848	2.395	0.900	0.600
C200_GPS	242.290	39.260	-2.498	-0.031	0.600	0.600
C220_GPS	242.590	39.360	-2.462	0.455	1.200	0.900
C240_GPS	242.860	39.490	-2.426	0.043	0.600	0.600
C260_GPS	243.060	39.400	-2.819	0.734	0.900	0.600
C280_GPS	243.380	39.480	-3.183	-0.982	0.800	0.600
C300_GPS	242.120	38.760	-3.965	1.276	0.400	0.400
C344_GPS	242.200	40.910	-2.230	-1.027	1.300	0.900
C753_GPS	239.380	44.310	-0.723	2.289	1.000	1.100
CARL_GPS	243.840	40.710	-2.010	1.196	1.200	1.100
CAST_GPS	249.320	39.190	-0.772	-0.055	0.356	0.338
CEDA_GPS	247.140	40.680	-3.301	-0.529	0.316	0.314
CEDR_GPS	239.740	41.550	-5.379	4.076	0.900	0.900
CHIL_GPS	240.800	39.360	-5.413	2.833	0.500	0.500
CHLK_GPS	240.120	39.510	-9.456	3.861	0.500	0.500
CHO1_GPS	238.340	39.430	-11.038	7.049	0.436	0.433
CMBB_GPS	239.610	38.030	-11.429	7.847	0.386	0.383
CNBY_GPS	239.130	41.430	-5.746	5.299	0.700	0.800
CNWX_GPS	240.820	38.080	-6.943	9.832	1.000	0.800
COON_GPS	247.880	40.650	-2.455	-0.515	0.337	0.353
CRTS_GPS	244.990	40.660	-2.218	-0.961	0.600	0.600
CTNP_GPS	240.530	41.900	-2.272	2.344	0.800	1.000
CUPO_GPS	237.980	44.190	-1.367	6.840	1.000	0.900
CUSG_GPS	242.960	40.000	-2.363	-1.062	0.700	0.700
D100_GPS	243.840	40.080	-3.880	-0.404	0.400	0.400
D200_GPS	243.690	39.530	-3.052	-0.396	0.600	0.500
D220_GPS	244.020	39.540	-6.323	-0.612	1.000	0.700
D240_GPS	244.200	39.380	-4.026	-1.321	1.000	0.600
D260_GPS	244.440	39.400	-3.304	-0.633	0.800	0.600
D280_GPS	244.920	39.420	-3.662	-2.257	0.800	0.700
D300_GPS	243.250	39.060	-4.239	-0.975	0.500	0.500
DECH_GPS	240.910	38.050	-11.139	8.428	0.500	0.500
DORF_GPS	239.060	39.820	-8.215	4.801	1.200	1.000
DRYX_GPS	238.910	44.210	1.523	6.907	0.800	0.800
DYER_GPS	241.960	37.740	-5.202	3.002	0.444	0.442
E100_GPS	245.350	39.900	-4.173	-0.379	0.500	0.500
E200_GPS	245.050	39.290	-3.866	0.036	0.500	0.500
E220_GPS	245.340	39.030	-4.671	-0.479	0.800	0.600
E240_GPS	245.550	39.070	-1.349	-0.190	0.800	0.600
E259_GPS	245.760	39.100	-3.129	-1.101	1.200	0.800
E280_GPS	246.110	39.040	-4.807	-2.419	1.000	0.700
E300_GPS	244.870	38.890	-3.825	-0.855	0.500	0.500
E843_GPS	239.390	40.450	-6.223	4.089	1.100	0.900
EARN_GPS	240.520	39.550	-8.617	3.844	0.400	0.400
EGAN_GPS	245.060	39.350	-3.058	-0.564	0.400	0.400
ELKO_GPS	244.180	40.910	-4.159	-0.020	0.400	0.400
F067_GPS	240.950	41.880	-3.636	-0.973	0.800	1.000
F091_GPS	239.460	43.390	-0.312	3.786	0.900	1.000
F100_GPS	246.420	39.550	-2.224	-1.436	0.500	0.500
F200_GPS	246.370	39.080	-3.881	-0.733	0.900	0.700
F220_GPS	246.620	39.020	-4.068	-0.247	1.000	0.700
F250_GPS	246.950	39.280	-1.811	-1.765	0.900	0.600
F270_GPS	247.160	39.320	-2.190	0.323	0.900	0.700
F279_GPS	241.850	39.230	-3.438	1.388	0.600	0.600
F280_GPS	247.450	39.370	-1.860	0.307	1.000	0.700
F300_GPS	246.330	38.790	-2.917	-0.331	0.500	0.500
FLRN_GPS	240.800	39.940	-5.853	2.733	0.400	0.400
FLS2_GPS	241.570	37.710	-7.419	6.500	1.200	1.100
FOOT_GPS	246.190	39.370	-3.461	-0.307	0.338	0.320

FRAZ_GPS	238.710	41.100	-9.916	7.514	0.900	0.900
FUSG_GPS	239.820	39.920	-8.339	3.872	1.200	0.900
G101_GPS	247.850	39.600	-3.501	-0.016	0.800	0.700
G200_GPS	247.760	39.140	-2.662	-0.611	0.800	0.600
G220_GPS	247.960	39.080	-5.753	-0.422	0.700	0.700
G250_GPS	248.260	38.900	-5.250	0.960	0.700	0.600
G298_GPS	241.810	40.120	-5.148	1.190	0.900	0.900
G300_GPS	247.410	38.600	-3.352	-0.591	0.500	0.500
GABB_GPS	242.080	38.970	-4.238	1.229	0.444	0.442
GARL_GPS	240.640	40.420	-5.417	2.740	0.400	0.400
GOLC_GPS	242.530	40.940	-2.698	0.658	0.900	0.900
GOSH_GPS	245.820	40.640	-3.625	-0.368	0.318	0.316
GUAN_GPS	240.520	42.020	-4.260	1.844	0.900	1.000
H100_GPS	248.980	39.290	-0.746	-0.782	0.500	0.500
H112_GPS	239.820	38.630	-10.370	8.872	0.700	0.800
H130_GPS	240.920	38.160	-11.227	7.128	1.100	0.900
H200_GPS	248.890	38.830	-2.108	-0.177	0.900	0.600
H300_GPS	248.640	38.480	-1.268	2.538	0.700	0.600
HEBE_GPS	248.630	40.510	-0.934	-0.239	0.335	0.333
HELI_GPS	238.980	39.730	-7.631	4.604	1.200	0.900
HELO_GPS	244.380	40.950	-3.338	-1.730	0.900	1.000
HHTT_GPS	238.260	40.870	-8.680	6.231	1.000	0.900
HICK_GPS	241.180	38.280	-6.693	7.117	1.000	1.000
HILD_GPS	238.490	42.250	-1.819	5.122	0.800	1.000
HLNB_GPS	238.730	41.480	-4.676	2.514	0.400	0.400
HORU_GPS	241.190	37.980	-9.723	10.317	0.800	0.800
HOTC_GPS	239.300	41.490	-2.624	3.292	0.900	0.900
HP26_GPS	240.010	40.240	-5.730	3.482	0.680	0.652
HSPR_GPS	240.350	40.920	-3.890	3.151	0.900	0.800
HSTN_GPS	239.070	44.260	0.043	3.001	0.800	0.800
HUSG_GPS	239.500	40.630	-5.295	5.385	0.800	0.700
HYAT_GPS	237.500	42.150	-1.719	5.857	1.100	1.100
J288_GPS	238.650	42.410	-1.388	2.917	0.800	1.000
J74X_GPS	241.750	40.940	-4.666	0.093	1.500	0.900
J789_GPS	238.170	42.870	-1.785	4.834	0.900	1.000
JNCT_GPS	240.530	38.360	-6.438	8.744	1.000	0.700
JUNI_GPS	240.070	42.930	-1.952	2.852	0.507	0.510
K102_GPS	242.320	40.160	-3.700	-0.433	0.900	0.900
K589_GPS	240.150	42.120	-2.583	0.159	1.000	1.000
L091_GPS	239.360	43.290	-1.332	2.690	0.900	1.000
LEWI_GPS	243.140	40.400	-2.869	-0.692	0.342	0.325
LIZZ_GPS	241.770	38.530	-3.718	3.292	0.600	0.600
LL92_GPS	243.020	40.360	-3.319	0.435	0.600	0.700
LOLA_GPS	241.440	40.070	-6.185	2.106	0.600	0.600
LOOP_GPS	241.010	42.720	-3.442	0.524	0.800	0.700
LOWE_GPS	242.360	40.030	-4.410	0.266	0.600	0.600
LUCK_GPS	241.230	38.420	-6.774	6.315	1.100	0.800
LUMP_GPS	238.850	39.630	-7.552	6.409	1.400	0.900
M504_GPS	238.470	41.720	-5.975	4.723	0.500	0.500
M753_GPS	239.580	44.400	0.406	3.082	1.000	1.300
MAGU_GPS	240.210	39.370	-9.562	6.057	0.400	0.400
MCAR_GPS	238.600	41.050	-10.131	3.818	1.000	1.000
MCOY_GPS	242.400	40.110	-4.799	1.064	0.600	0.600
MICK_GPS	241.580	42.660	-2.997	1.500	0.600	0.600
MINE_GPS	243.900	40.150	-3.569	0.286	0.343	0.343
MN54_GPS	241.940	39.200	-4.734	1.584	0.600	0.600
MOND_GPS	241.720	39.400	-5.531	1.594	0.700	0.700
MONI_GPS	243.280	39.150	-3.727	0.223	0.400	0.400
MOOR_GPS	245.200	41.110	-2.650	-1.972	1.000	1.000
MUSB_GPS	240.690	37.170	-11.115	8.876	0.379	0.393

N067_GPS	241.150	41.890	-2.418	2.718	0.800	0.900
N843_GPS	239.330	40.420	-6.131	4.191	1.400	0.900
NEWS_GPS	242.490	39.690	-4.490	0.467	0.481	0.487
OAKR_GPS	237.500	43.750	0.262	5.769	0.507	0.487
OBSD_GPS	240.760	41.880	-1.653	1.735	0.700	0.800
OREG_GPS	239.410	42.200	-3.441	2.688	0.900	1.000
ORVB_GPS	238.500	39.550	-10.790	7.022	0.400	0.400
OVRP_GPS	238.720	41.710	-6.154	3.614	0.400	0.400
P19A_GPS	240.530	40.580	-2.810	2.144	0.900	0.900
P208_GPS	240.080	39.110	-9.800	6.362	0.500	0.500
P515_GPS	240.220	41.000	-5.693	2.657	0.700	0.800
PARA_GPS	242.310	41.280	-2.281	0.268	0.900	0.900
PARS_GPS	239.930	42.210	-2.793	2.468	0.700	0.700
PERS_GPS	241.250	40.860	-7.218	0.514	1.200	0.900
PIBU_GPS	238.720	44.060	0.260	3.327	0.602	0.585
PITR_GPS	238.460	40.980	-4.151	9.623	1.000	1.000
PL20_GPS	239.280	42.260	-3.447	3.993	0.900	0.900
POST_GPS	241.960	39.040	-4.249	2.883	0.600	0.600
Q837_GPS	239.430	40.550	-7.809	3.588	1.000	0.900
QUIN_GPS	239.060	39.970	-9.600	6.301	0.400	0.400
R090_GPS	239.880	43.480	0.036	3.570	0.900	0.900
RAIL_GPS	244.340	38.280	-3.817	-0.209	0.444	0.442
RATT_GPS	241.300	40.000	-6.604	2.512	0.500	0.500
ROCO_GPS	238.900	42.430	-0.963	1.607	1.100	1.000
ROUN_GPS	238.540	41.430	-5.598	3.621	0.400	0.400
RUBY_GPS	244.880	40.620	-3.634	-0.207	0.335	0.333
RUST_GPS	237.650	42.620	-2.299	6.336	0.616	0.598
SAGE_GPS	239.960	39.790	-8.841	4.867	0.500	0.500
SHEL_GPS	241.680	39.040	-5.372	1.096	0.900	0.700
SHIN_GPS	239.770	40.590	-6.749	4.175	0.335	0.333
SHLD_GPS	240.980	41.870	-3.519	2.599	0.346	0.346
SHON_GPS	242.810	40.030	-5.472	1.045	0.700	0.800
SILV_GPS	238.940	43.120	-1.688	4.606	0.600	0.600
SIST_GPS	238.440	44.310	0.924	3.862	0.520	0.527
SLID_GPS	240.120	39.310	-9.908	5.598	0.473	0.411
SLR1_GPS	241.790	39.110	-6.256	3.391	0.600	0.600
SMEL_GPS	247.160	39.430	-3.077	-0.366	0.320	0.320
SMOK_GPS	240.350	40.620	-6.061	3.710	0.719	0.618
SNDS_GPS	241.580	39.150	-7.769	3.300	0.600	0.700
SODH_GPS	241.980	41.410	-2.096	2.183	0.600	0.700
STEA_GPS	237.260	43.340	-1.341	6.357	0.487	0.495
SUTB_GPS	238.180	39.210	-10.871	7.506	0.370	0.353
T128_GPS	242.760	42.930	-2.761	-0.853	0.900	1.000
TMBR_GPS	238.700	41.630	-4.664	5.615	0.400	0.400
TONO_GPS	242.820	38.100	-4.222	0.772	0.348	0.330
TRGO_GPS	240.870	40.770	-7.461	2.530	1.000	0.800
TUFF_GPS	238.790	42.440	-2.272	1.111	1.000	1.000
TUNG_GPS	241.740	40.400	-5.591	2.009	0.335	0.335
U698_GPS	241.700	43.170	-2.030	-1.405	0.900	1.000
UPSA_GPS	241.200	39.630	-6.647	3.055	0.342	0.323
UU83_GPS	239.680	39.320	-9.112	6.778	0.700	0.600
V209_GPS	240.460	39.080	-6.671	4.847	0.600	0.500
VALM_GPS	242.890	40.780	-6.384	0.241	0.800	0.900
VIDA_GPS	237.430	44.150	1.349	4.769	0.594	0.545
W072_GPS	239.230	43.010	-3.527	3.277	0.628	0.600
W078_GPS	241.420	38.610	-5.039	4.707	1.100	0.900
W67R_GPS	239.640	42.190	-4.621	2.879	0.700	0.800
W784_GPS	237.990	42.140	-1.776	2.040	1.000	1.000
WICK_GPS	238.310	43.680	-3.170	6.335	0.492	0.500
WILD_GPS	241.630	40.020	-5.374	4.098	0.700	0.700

WILO_GPS	243.590	41.210	-2.277	-0.792	0.600	0.700
X360_GPS	241.610	38.540	-3.030	2.899	1.000	0.900
Y090_GPS	239.690	43.430	-0.187	2.977	0.800	0.900
YBHB_GPS	237.290	41.730	-3.575	6.787	0.424	0.421
Z25X_GPS	242.310	38.770	-5.548	-0.932	1.000	0.900
KELY_GPS	309.050	66.990	0.569	-0.543	0.363	0.369
STJO_GPS	307.320	47.600	-1.395	-0.657	0.800	0.100
BRMU_GPS	295.300	32.310	0.117	-0.249	0.700	0.700
THU1_GPS	291.210	76.540	-1.933	-0.805	0.548	0.548
WES2_GPS	288.510	42.610	0.461	-1.144	0.418	0.409
NLIB_GPS	281.930	45.960	0.475	-0.605	0.360	0.360
ALGO_GPS	268.420	41.770	0.102	0.021	0.332	0.321
YELL_GPS	245.520	62.480	-0.434	-0.312	0.330	0.347
DRAO_GPS	240.380	49.320	1.065	1.366	0.353	0.361
FAIR_GPS	212.500	64.980	0.464	-3.506	0.365	0.354
BILI_GPS	166.440	68.080	2.113	-1.869	0.671	0.689
PETP_GPS	158.610	53.010	-5.856	10.623	1.600	1.600
MAGO_GPS	150.770	59.580	4.682	-5.544	1.500	1.600
YSSK_GPS	142.720	47.030	8.391	0.490	1.700	1.700
TIXI_GPS	128.870	71.630	-2.546	-1.133	1.500	1.500
0047_GPS	240.017	43.590	-2.069	1.357	0.610	0.600
0113_GPS	235.842	41.933	1.899	11.340	0.743	0.728
0209_GPS	238.742	41.671	-2.440	4.050	1.580	1.610
0226_GPS	240.006	40.245	-5.730	3.482	0.680	0.652
036C_GPS	244.168	41.511	-2.840	-0.620	0.800	0.750
1214_GPS	237.059	42.397	-0.300	6.590	1.750	1.010
16EM_GPS	243.534	42.656	-2.380	1.810	0.860	0.840
1882_GPS	239.335	47.768	1.730	2.530	0.520	0.550
217U_GPS	238.095	46.542	2.740	5.030	0.480	0.590
2780_GPS	235.676	43.344	5.080	11.270	0.580	0.450
4S9B_GPS	237.409	45.216	1.670	6.896	1.015	0.865
4Z9A_GPS	236.549	48.124	5.930	4.860	0.730	0.920
74LR_GPS	240.581	41.173	-4.190	2.250	0.700	0.730
A074_GPS	238.825	43.313	-1.550	4.450	0.700	0.690
A16N_GPS	235.940	44.587	6.729	9.813	0.442	0.409
A479_GPS	236.467	46.991	7.100	6.100	0.530	0.600
A515_GPS	239.575	48.594	0.700	1.770	0.950	0.920
A545_GPS	239.256	45.475	0.420	3.060	0.600	0.620
A699_GPS	241.549	43.216	-2.620	1.230	0.730	0.720
ACME_GPS	237.796	48.711	3.290	4.280	0.790	1.010
AHID_GPS	248.936	42.773	-0.893	-0.967	0.458	0.430
AIRP_GPS	242.185	44.833	-0.690	0.350	0.560	0.500
ALAM_GPS	244.842	37.358	-3.280	-0.160	0.390	0.380
ALCC_GPS	232.481	50.458	-0.190	3.010	0.730	0.750
ALEX_GPS	234.507	49.738	5.280	5.960	1.020	1.050
ALKA_GPS	240.001	42.954	-2.480	3.560	0.620	0.700
ALTA_GPS	238.253	42.209	-3.430	5.150	0.400	0.440
ANAW_GPS	233.453	49.789	5.880	5.890	0.740	0.780
ANNA_GPS	234.685	50.491	2.350	3.110	0.850	0.880
APEX_GLA	245.068	36.319	-3.390	-0.290	0.380	0.370
APSA_GPS	237.015	46.671	3.770	5.740	0.400	0.400
ARGU_GLA	242.478	36.050	-7.280	5.840	0.400	0.390
ARLI_GPS	237.842	48.162	2.670	2.900	0.440	0.450
ARLO_GPS	237.846	48.170	2.850	3.640	0.590	0.680
ARP0_GPS	237.193	46.477	8.840	3.690	1.450	1.670
ASH0_GPS	237.293	42.216	-5.030	7.500	0.680	0.750
ASTO_GPS	236.168	46.173	7.280	8.290	0.760	0.780
ATHE_GPS	241.529	45.813	-0.240	0.450	0.520	0.510
ATKI_GPS	236.747	49.337	3.110	3.500	1.170	0.930
AVA2_GPS	237.751	47.686	4.250	3.180	0.580	0.580

AZAL_GPS	236.747	42.799	-0.600	8.340	0.750	0.740
B059_GPS	238.574	47.735	3.630	3.100	0.540	0.560
B073_GPS	241.271	40.848	-4.540	2.720	0.880	0.910
B197_GPS	237.245	47.501	4.920	5.580	0.580	0.640
B317_GPS	240.273	46.578	0.720	1.710	0.550	0.610
B737_GPS	236.803	44.149	2.420	5.000	0.910	0.990
B741_GPS	236.589	43.129	-0.680	8.530	0.660	0.720
BAKR_GPS	238.326	48.865	1.550	1.990	1.240	1.390
BAL2_GPS	235.934	44.830	7.390	9.810	0.570	0.590
BALL_GPS	235.842	49.347	4.770	5.270	0.550	0.600
BAMF_GPS	234.866	48.828	8.600	7.460	0.780	0.960
BATT_GPS	237.453	45.781	2.960	5.760	0.420	0.450
BCHD_GPS	236.349	48.316	5.530	4.820	1.310	0.930
BCHR_GPS	234.777	49.650	5.800	4.600	0.720	0.780
BCOV_GPS	233.157	50.544	2.790	4.200	0.690	0.710
BEAV_GPS	238.195	43.133	-2.723	7.111	0.500	0.512
BHAP_GPS	237.465	48.791	3.830	2.090	1.950	1.140
BIGC_GPS	236.419	46.146	4.740	6.430	0.540	0.600
BIGH_GPS	241.470	45.600	-0.370	1.030	1.080	0.920
BLCO_GPS	235.514	42.801	3.530	12.790	0.430	0.420
BLK4_GPS	237.536	43.160	-0.650	5.990	0.380	0.400
BLUE_GPS	236.740	47.955	5.690	5.160	0.380	0.400
BLYN_GNI	237.072	48.016	4.484	4.835	0.737	0.768
BM31_GPS	238.341	48.273	2.670	1.950	0.580	0.590
BOLI_GPS	236.164	42.792	-0.020	9.350	0.350	0.350
BOUN_GPS	237.004	49.078	3.680	3.990	1.230	0.940
BOVL_GPS	243.598	46.857	1.160	0.480	0.750	0.700
BRAE_GPS	236.588	45.065	3.670	6.520	0.950	0.970
BREW_GPS	240.317	48.132	1.370	1.600	0.610	0.640
BRIB_GPS	237.847	37.919	-14.986	16.112	0.418	0.415
BRMU_GPS	295.304	32.370	0.662	-0.271	0.435	0.386
BROW_GPS	237.556	47.306	3.730	2.800	0.980	1.180
BRWV_GPS	234.360	50.125	4.390	4.480	0.760	0.790
BSTR_GPS	236.274	43.660	2.230	8.720	0.610	0.620
BULC_GPS	232.890	50.961	-1.250	4.420	0.860	0.910
BURN_GPS	242.156	42.780	-1.901	1.618	0.541	0.541
BUST_GLA	243.549	36.745	-3.490	0.120	0.380	0.370
C033_GPS	240.189	47.242	1.720	1.550	0.760	0.740
C334_GPS	242.431	46.486	0.180	1.630	0.630	0.660
C715_GPS	236.900	44.633	4.210	7.020	0.880	1.140
CALV_GPS	232.046	51.544	-1.960	2.390	0.910	0.950
CAM4_GPS	236.222	43.002	-0.140	9.310	0.430	0.430
CANN_GPS	236.040	45.862	7.610	8.580	0.380	0.400
CAPS_GPS	237.401	48.513	5.180	3.210	0.920	1.080
CBL1_GPS	240.451	45.344	-0.170	2.110	0.530	0.570
CC25_GPS	241.411	46.973	0.620	1.760	0.520	0.520
CEDC_GPS	236.154	45.214	5.190	8.280	0.590	0.630
CHAB_1PS	237.881	37.724	-16.608	18.972	0.357	0.414
CHAS_GPS	237.009	45.524	3.180	6.140	0.420	0.470
CHAT_GPS	183.434	-43.956	-38.713	50.072	0.461	0.480
CHEM_GPS	236.297	48.920	4.863	4.379	0.550	0.555
CHLO_GLA	243.234	36.747	-3.600	0.560	0.380	0.370
CHO1_GPS	238.335	39.433	-10.947	6.924	0.509	0.508
CHUR_GPS	265.911	58.759	0.629	-0.261	0.386	0.400
CHWK_GPS	237.992	49.157	2.370	2.150	0.320	0.320
CHZZ_GPS	236.022	45.487	6.920	9.647	0.418	0.421
CLAT_GPS	236.795	46.105	4.730	6.810	1.060	1.110
CLCC_GPS	237.425	45.326	1.750	8.010	1.040	1.270
CLFH_GPS	237.639	45.296	1.340	5.100	0.590	0.640
CMB0_GPS	239.614	38.034	-10.903	7.929	0.443	0.442

CME1_GPS	235.604	40.442	-9.170	30.720	0.568	0.568
CNDR_GPS	238.722	37.896	-12.961	7.586	0.485	0.482
CNSP_GPS	236.326	48.465	5.740	4.800	1.310	1.010
CNTR_GPS	236.297	46.973	8.500	7.370	0.520	0.590
COEU_GPS	243.204	47.743	0.860	0.160	0.520	0.510
COLR_GPS	237.170	44.208	2.350	6.400	1.000	1.020
COND_GPS	236.083	46.057	7.800	7.710	0.550	0.580
CORV_GPS	236.695	44.586	3.026	7.194	0.361	0.424
COVE_GPS	242.180	45.297	-0.740	0.820	0.790	1.030
COXI_GPS	231.401	50.813	-0.190	2.910	0.900	0.950
CPXF_GNI	237.743	46.840	2.540	4.531	0.593	0.611
CRAT_GLA	243.431	36.808	-3.390	0.280	0.380	0.370
CRES_GPS	238.056	43.530	-0.570	5.040	0.900	0.750
CROW_GPS	236.681	43.986	1.920	8.300	0.670	0.710
CRWN_GPS	241.014	47.971	1.360	-0.040	1.190	1.100
CSTL_GPS	237.081	46.283	3.750	6.440	0.620	0.690
CTHS_GPS	241.618	47.127	0.550	1.620	0.960	1.150
CUGR_GPS	237.765	44.119	0.980	5.120	1.210	1.030
CURT_GPS	236.401	44.377	3.490	8.260	0.500	0.530
D639_GPS	240.177	45.813	-0.040	2.420	0.490	0.540
D706_GPS	241.068	43.960	-1.410	1.270	0.760	0.710
DALL_GPS	238.825	45.618	1.390	3.340	0.350	0.410
DARL_GPS	236.607	43.242	-1.670	9.390	0.930	0.730
DAVI_GPS	235.680	49.599	4.430	5.200	0.540	0.570
DDSN_GPS	236.756	43.119	0.395	7.794	0.520	0.472
DELI_GPS	236.545	43.126	0.060	7.920	0.730	0.790
DIAB_GPS	238.084	37.879	-12.327	11.091	0.458	0.456
DISC_GPS	236.773	48.425	4.610	4.660	1.370	0.990
DOTT_GPS	236.725	46.631	4.850	6.810	0.460	0.520
DOUG_GPS	236.653	48.493	4.970	4.020	1.300	0.930
DUBO_GPS	264.134	50.259	-0.640	-0.762	0.367	0.332
DUNG_GPS	236.890	48.181	6.730	3.170	1.200	1.230
DUWA_GPS	237.613	47.595	4.870	5.340	1.170	1.460
E040_GPS	239.820	45.243	1.320	1.930	0.760	0.760
E072_GPS	243.588	43.075	-1.960	0.420	0.970	1.000
E141_GPS	236.709	44.391	4.720	7.210	0.590	0.630
E518_GPS	239.408	47.559	3.290	2.680	1.250	0.950
EA40_GPS	236.591	47.939	6.810	4.310	0.450	0.470
EARL_GPS	236.024	49.753	3.520	4.250	0.480	0.520
EASN_GPS	238.829	47.232	4.950	4.160	0.470	0.480
ECHO_GPS	245.736	37.916	-3.442	-0.423	0.367	0.364
EDDY_GPS	236.233	44.612	5.420	7.950	1.040	1.250
EGAN_GPS	245.061	39.345	-4.922	-0.196	0.436	0.436
ELIZ_GPS	232.877	49.873	5.180	6.260	0.700	0.730
ELKO_GPS	244.183	40.915	-4.255	0.130	0.400	0.364
ELKR_GPS	237.655	46.301	3.715	4.539	0.568	0.574
EOUT_GPS	248.071	41.253	-1.362	-0.151	0.427	0.361
ESTA_GPS	237.667	45.299	1.350	5.100	0.590	0.640
EZEL_GPS	236.837	44.079	1.990	7.120	0.820	0.940
F408_GPS	243.551	44.669	0.850	1.230	0.890	0.640
F735_GPS	238.803	44.269	-0.620	4.170	1.310	1.270
F751_GPS	235.801	43.340	4.490	11.560	0.970	1.110
F760_GPS	237.375	42.142	-3.230	5.430	0.770	0.890
FAAS_GPS	243.881	45.942	-0.250	-0.020	0.740	0.840
FALL_GPS	238.867	46.629	2.580	2.700	0.810	0.750
FARB_GPS	236.999	37.697	-28.543	37.791	0.573	0.571
FARO_GPS	236.661	42.423	-1.860	8.540	0.600	0.660
FARV_GPS	237.347	43.586	-0.050	7.450	0.660	0.750
FARW_GPS	236.624	47.015	5.600	6.690	0.500	0.560
FERR_GPS	241.845	48.278	-0.600	0.010	1.290	1.710

FHAM_GPS	236.140	44.019	4.520	9.560	1.560	1.540
FILB_GPS	234.302	49.883	4.430	4.210	0.750	0.790
FISH_GPS	235.732	42.046	2.692	10.639	0.622	0.570
FLAT_GPS	244.685	46.339	0.890	0.480	0.690	0.760
FLIN_GPS	258.022	54.726	-0.121	-1.188	0.328	0.342
FORE_GPS	241.042	45.138	0.500	1.260	0.690	0.830
FORK_GPS	235.604	47.937	12.920	9.180	0.530	0.540
FOSS_GPS	239.780	45.000	-0.750	2.150	0.920	0.920
FOUR_GPS	234.718	49.192	6.410	6.160	0.600	0.630
FRAN_GPS	236.500	46.541	6.110	7.650	0.480	0.510
FRDC_GPS	234.493	48.985	9.080	9.010	0.790	0.890
FRED_GPS	247.501	36.988	-1.830	-0.240	0.384	0.412
FRND_GPS	237.397	48.892	3.580	3.540	1.060	1.350
FTS1_GPS	236.044	46.205	8.520	8.740	0.260	0.260
G118_GPS	240.048	42.098	-3.520	3.680	0.670	0.750
G370_GPS	238.731	48.674	2.810	2.340	0.610	0.620
G404_GPS	243.627	46.142	0.380	0.430	0.720	0.830
G753_GPS	239.491	44.353	-0.950	1.840	1.370	1.120
GABR_GPS	236.180	49.203	4.570	4.390	0.700	0.660
GARL_GPS	240.645	40.417	-5.592	2.830	0.391	0.354
GARY_GPS	236.930	45.612	2.970	5.650	0.460	0.480
GENT_GPS	241.923	43.744	-1.810	1.120	1.200	0.840
GLAC_GPS	234.636	49.552	5.640	4.300	0.710	0.760
GLDH_GPS	237.213	47.549	5.420	4.590	0.410	0.430
GO89_GPS	235.572	42.421	3.710	12.820	0.440	0.390
GOBS_GPS	239.185	45.839	1.026	3.277	0.543	0.543
GODE_GPS	283.173	39.022	0.267	-0.008	0.298	0.297
GP14_GPS	235.822	47.114	13.540	12.580	0.450	0.500
GP17_GPS	238.375	47.138	2.490	2.850	0.630	0.640
GP29_GPS	238.406	48.486	1.160	2.290	0.580	0.570
GP35_GPS	236.351	46.334	6.730	7.080	0.610	0.640
GP37_GPS	237.857	48.917	2.560	1.700	0.700	0.860
GRAY_GPS	235.900	46.903	10.840	10.940	0.470	0.480
GREN_GPS	237.474	41.555	-4.430	4.380	1.130	1.390
GREV_GPS	235.721	47.304	14.790	12.390	0.330	0.350
GREY_GPS	235.296	48.996	7.240	7.160	0.630	0.670
GRND_GPS	236.361	45.082	4.210	6.490	0.470	0.480
GRSM_GPS	238.223	48.539	3.400	3.870	0.830	1.030
GTRG_GPS	246.759	43.244	-2.278	-0.261	0.430	0.367
GWEN_GPS	238.672	45.783	2.290	2.310	0.970	0.970
H318_GPS	243.813	41.962	-3.210	0.600	0.760	0.710
H428_GPS	239.785	45.745	0.760	2.130	1.300	1.510
HAFF_GPS	237.824	47.485	3.260	3.900	0.700	0.740
HAMI_GPS	235.935	44.602	6.590	8.960	0.420	0.440
HAND_GPS	235.041	49.069	6.120	6.110	0.600	0.630
HANS_GPS	236.430	45.885	5.100	6.580	0.500	0.520
HARD_GPS	232.619	50.698	-0.110	3.310	0.770	0.800
HEAD_GPS	235.924	46.300	9.560	10.480	0.730	0.740
HEBE_GPS	248.627	40.514	-0.934	-0.239	0.409	0.408
HELE_GPS	237.199	45.857	2.980	6.940	0.400	0.440
HKUS_GPS	234.159	50.335	3.370	4.180	0.760	0.780
HLID_GPS	245.586	43.563	-2.135	-0.137	0.384	0.444
HOLB_GPS	231.865	50.640	0.110	3.730	0.630	0.630
HOPB_GPS	236.925	38.995	-18.965	21.068	0.427	0.424
HOWE_GPS	237.120	44.990	2.810	6.810	0.470	0.490
HRMA_GPS	240.741	45.827	-0.250	1.380	0.490	0.510
HUBB_GPS	237.189	45.179	4.150	7.270	1.070	1.280
HUR2_GPS	236.471	47.990	6.600	5.650	0.450	0.470
HUSB_GPS	238.151	44.120	-3.350	11.080	0.770	0.790
HYAK_GPS	238.608	47.388	2.930	2.350	1.070	1.330

ICEB_GPS	237.115	48.420	4.950	4.140	0.580	0.500
ICEH_GPS	241.120	46.251	-0.780	1.480	1.420	1.180
ILLA_GPS	236.318	42.104	-1.157	8.633	0.791	0.682
IMP0_GPS	237.174	44.795	2.840	6.320	0.540	0.580
ISLE_GPS	236.051	45.273	5.680	9.480	1.410	1.530
J090_GPS	240.143	44.119	-0.810	2.270	0.480	0.510
JAIL_GPS	237.029	44.876	2.610	6.390	0.980	1.140
JENS_GPS	231.735	50.646	-1.470	3.840	0.920	0.940
JHRT_GPS	234.603	50.033	4.160	4.330	0.760	0.780
JOHN_GLA	243.901	36.459	-3.320	-0.260	0.380	0.370
JONY_GPS	240.372	44.623	-0.800	1.140	0.670	0.670
JOSE_GPS	242.748	45.349	-0.370	0.390	0.540	0.570
JRDR_GPS	235.897	48.465	6.730	5.240	1.260	1.080
JUNC_GPS	239.053	44.920	0.360	2.598	0.532	0.550
JUST_GPS	237.123	42.323	-2.460	7.360	0.460	0.530
JUSW_GPS	242.941	48.179	0.870	0.050	0.600	0.670
K024_GPS	242.268	48.208	0.430	1.410	0.870	1.000
KAMI_GPS	243.995	46.213	1.280	1.260	0.610	0.680
KELL_GPS	241.341	48.698	1.080	0.970	0.930	0.650
KELS_GPS	237.104	46.118	3.700	6.145	0.444	0.447
KING_GPS	232.229	51.854	-3.740	2.470	0.930	0.960
KINW_GPS	237.352	47.735	5.730	4.620	0.670	0.810
KLAS_GPS	236.280	46.089	6.480	7.210	0.640	0.710
KLUC_GPS	232.836	50.573	1.360	4.700	1.200	1.230
KOPR_GPS	232.101	50.486	2.750	2.860	0.840	0.860
KTBW_GNI	237.205	47.547	3.851	4.259	0.442	0.442
KWJ1_GPS	167.730	8.722	-69.881	44.642	0.559	0.534
L387_GPS	239.937	47.656	1.300	1.680	0.600	0.570
LANG_GPS	237.044	44.566	2.790	6.300	0.600	0.620
LARC_GPS	237.912	45.533	1.630	7.640	1.180	1.210
LATA_GPS	242.868	47.274	1.050	1.300	0.660	0.770
LAZA_GPS	236.176	48.612	5.170	4.170	1.150	0.980
LESL_GPS	236.762	43.706	1.500	6.380	0.680	0.830
LEV1_GPS	226.907	56.466	-3.165	2.754	0.602	0.682
LEWG_GPS	237.379	47.094	3.670	6.540	0.570	0.630
LINH_GPS	239.461	47.000	1.550	2.210	0.370	0.380
LITT_GLA	243.692	36.746	-3.330	-0.190	0.380	0.370
LK42_GPS	236.330	48.150	6.260	5.130	0.780	0.850
LKCP_GNI	238.169	47.944	2.026	3.293	0.492	0.472
LKWY_GPS	249.600	44.565	0.221	-3.584	0.364	0.574
LMUT_GPS	248.072	40.261	-2.821	-0.066	0.719	0.735
LOPE_GPS	240.646	41.997	-3.740	2.470	0.660	0.700
LOWL_GPS	237.205	43.922	2.200	5.630	1.080	1.070
LSII_GPS	240.663	47.185	0.580	0.950	0.450	0.480
LUCA_GPS	235.941	42.552	2.160	10.730	1.320	1.200
LUTZ_GPS	238.135	37.287	-20.350	22.834	0.456	0.453
M746_GPS	235.678	42.183	3.150	13.720	0.760	0.700
MACK_GPS	236.869	45.190	2.910	7.370	1.070	1.140
MAWY_GPS	249.311	44.973	0.563	0.599	0.397	0.424
MDMT_GPS	238.778	42.418	-5.226	6.176	0.602	0.587
MENZ_GPS	234.503	50.231	2.580	4.440	0.740	0.750
MERC_GLA	244.021	36.633	-3.240	-0.550	0.380	0.370
MESA_GPS	240.993	46.621	0.310	1.500	0.560	0.520
MHCB_GPS	238.357	37.342	-14.120	10.815	0.370	0.368
MILL_GPS	237.520	44.752	2.250	5.880	0.530	0.580
MKEA_GPS	204.544	19.801	-60.500	51.831	0.386	0.384
MOAK_GPS	233.942	50.104	4.630	4.060	0.780	0.820
MODB_1PS	239.697	41.902	-4.750	3.660	0.510	0.510
MOLA_GPS	237.580	37.947	-18.834	23.127	0.424	0.421
MONB_GPS	238.133	37.485	-16.218	16.149	0.458	0.456

MOON_GPS	236.165	44.777	5.220	8.370	0.500	0.460
MORT_GPS	237.730	46.551	3.440	5.120	0.320	0.330
MRS1_GNI	238.065	47.142	2.320	3.890	0.460	0.480
MRY5_GPS	236.448	44.504	4.150	7.850	0.570	0.560
MTAD_GPS	238.458	46.000	2.140	5.010	0.830	0.860
N274_GPS	236.212	45.907	5.420	8.350	0.680	0.730
N469_GPS	235.881	48.198	8.340	6.800	0.630	0.780
N748_GPS	236.618	42.621	-2.560	8.710	1.540	1.420
NACH_GPS	235.001	49.949	4.540	5.020	0.720	0.750
NAIU_GPS	247.770	41.016	-1.540	-0.860	0.320	0.310
NANO_GPS	235.914	49.295	4.480	4.920	0.330	0.320
NBCG_GPS	235.401	48.370	9.670	8.210	0.500	0.500
NEAH_GPS	235.375	48.298	10.238	8.419	0.466	0.492
NESK_GPS	236.034	45.134	7.360	9.320	0.390	0.400
NESM_GPS	236.772	44.925	3.410	7.410	0.620	0.650
NOMT_GPS	248.370	45.597	0.123	-0.510	0.430	0.433
NTKA_GPS	233.383	49.592	6.690	8.500	0.700	0.730
OFWY_GPS	249.168	44.452	-3.512	-0.534	0.826	0.763
OGIL_GPS	241.039	44.410	-1.660	1.910	0.740	0.710
OHLN_GPS	237.727	38.006	-15.935	17.510	0.778	0.778
OHME_GNI	239.674	47.480	2.650	1.640	0.970	1.000
OKAY_GPS	235.736	49.228	4.910	5.200	0.510	0.530
OLYM_GPS	237.092	46.967	3.990	5.600	0.380	0.320
OP25_GPS	236.076	46.972	10.380	8.700	0.450	0.470
ORCC_GPS	237.339	47.446	4.730	3.620	0.990	1.150
ORVB_GPS	238.500	39.555	-10.737	6.620	0.427	0.424
OVER_GPS	237.858	47.636	2.700	3.760	0.870	0.990
OYST_GPS	234.600	49.823	4.690	4.910	0.730	0.770
P75Z_GPS	235.825	43.124	1.990	10.090	0.540	0.560
PABH_GPS	235.795	47.213	13.566	11.745	0.381	0.381
PACH_GPS	234.957	48.865	8.180	7.170	0.560	0.580
PACI_GPS	237.125	42.336	-1.520	6.820	1.610	0.860
PACK_GPS	238.325	46.607	2.000	4.530	0.970	0.990
PAIN_GPS	237.728	47.908	2.920	3.040	0.810	0.880
PAIS_GPS	239.451	42.704	-2.220	2.590	0.780	0.920
PARK_GPS	236.540	46.268	6.650	8.130	0.500	0.570
PAUL_GPS	240.969	45.499	0.670	1.690	0.870	0.870
PBL1_GPS	237.581	37.853	-23.104	21.666	0.433	0.430
PETE_GPS	237.031	44.510	2.410	6.580	0.740	0.820
PGC4_GPS	236.549	48.648	4.700	4.120	0.530	0.530
PIER_GPS	233.878	49.619	7.000	5.230	0.730	0.770
PLUD_GPS	237.317	47.922	5.020	3.780	0.620	0.700
POCA_GPS	235.555	49.710	3.570	4.560	0.580	0.640
POIN_GLA	243.880	36.580	-3.170	-0.320	0.380	0.370
PONS_GPS	235.883	44.170	5.910	9.020	1.490	1.500
POTB_GPS	238.065	38.203	-11.287	8.540	0.461	0.458
POWE_GPS	235.544	49.807	4.560	4.370	0.600	0.670
PPT1_GPS	237.610	37.187	-28.966	35.352	0.433	0.430
PRAI_GPS	236.176	45.421	4.940	9.060	1.090	1.290
PRDS_GPS	245.707	50.871	0.653	-1.280	0.458	0.456
PRES_GPS	237.075	46.040	3.300	7.080	0.750	0.650
PRIN_GPS	239.135	44.301	-0.430	4.190	0.580	0.550
PROS_GPS	237.489	42.741	-1.890	6.770	0.710	0.800
PTAL_GPS	235.139	49.256	5.300	5.160	0.730	0.720
PTAN_GPS	236.505	48.117	5.190	5.270	0.660	0.650
PTHY_GPS	232.625	50.686	-0.100	4.850	0.730	0.700
PTS5_GPS	237.280	46.533	4.530	5.600	0.560	0.660
PTSG_GPS	235.745	41.783	2.599	11.685	0.392	0.373
PUPU_GNI	237.992	47.500	2.698	2.735	0.500	0.502
QUIN_GPS	239.056	39.975	-9.377	6.451	0.418	0.412

R378_GPS	239.744	48.508	-0.380	3.770	0.500	0.530
R409_GPS	242.751	45.929	0.410	0.500	0.460	0.490
R489_GPS	242.543	44.578	-1.250	1.380	0.720	0.590
RADA_GPS	234.159	49.084	9.310	7.380	0.600	0.650
RBUT_GPS	248.191	40.781	-1.360	-0.110	0.330	0.320
REDM_GPS	238.852	44.260	-0.013	3.521	0.515	0.515
REPO_GLA	243.532	36.840	-3.256	-1.988	1.014	1.016
REST_GPS	236.539	45.797	4.620	7.430	0.480	0.480
REUB_GPS	236.403	42.719	-1.220	8.900	0.340	0.340
RKBU_GPS	237.434	45.547	2.340	5.970	0.340	0.360
RKPT_GPS	237.900	42.473	-3.290	6.300	0.700	0.810
ROBI_GPS	232.399	51.186	-1.830	2.700	0.860	0.890
ROG2_GPS	235.572	42.430	4.200	13.170	0.970	0.900
ROGE_1HT	242.915	36.218	-4.700	2.830	0.400	0.390
ROSE_GPS	236.645	43.246	-0.890	7.520	0.400	0.410
ROSW_GPS	240.263	48.394	0.230	1.540	0.870	0.840
RPT1_GPS	237.625	47.388	3.230	4.000	0.390	0.390
RYAN_1HT	243.350	36.316	-3.591	1.061	0.594	0.594
S262_GPS	242.950	46.426	2.010	0.130	0.720	0.660
S300_GPS	238.442	37.667	-11.777	8.919	0.437	0.437
S381_GPS	243.742	48.731	1.260	-0.130	0.580	0.650
S389_GPS	239.930	48.157	0.920	1.450	0.510	0.550
S418_GPS	244.162	42.880	-2.760	-0.410	0.810	0.840
S509_GPS	241.287	47.761	1.380	0.680	1.120	0.850
SARD_GPS	237.686	43.963	1.770	4.590	0.650	0.670
SARG_GPS	239.523	46.602	0.970	1.820	0.570	0.610
SATS_GPS	236.459	46.966	6.010	7.530	0.760	0.810
SATU_GPS	236.829	48.774	4.220	4.190	1.330	1.050
SC00_GNI	239.275	46.951	1.442	2.191	0.502	0.485
SC02_GNI	236.992	48.546	3.529	3.397	0.608	0.594
SCAR_GPS	231.992	50.654	1.090	2.650	0.860	0.880
SCAZ_GPS	236.796	45.469	4.660	6.050	1.330	1.450
SCHO_GPS	237.125	47.824	6.180	5.260	0.790	0.830
SCOT_GPS	236.935	43.372	-0.210	7.060	0.350	0.360
SDNY_GPS	236.897	44.780	3.780	8.150	0.830	0.860
SDRO_GPS	237.772	48.508	3.060	3.320	0.520	0.560
SEAT_GPS	237.691	47.654	3.784	3.839	0.495	0.439
SECH_GPS	236.123	49.598	3.590	4.730	0.570	0.630
SEDR_GPS	237.776	48.522	2.901	3.252	0.480	0.464
SENT_GPS	234.042	49.956	4.550	3.930	1.020	1.040
SEYM_GPS	232.720	51.465	-0.270	3.430	0.880	0.920
SHEP_GPS	235.813	49.535	4.230	4.740	0.530	0.560
SHER_GPS	236.079	48.377	6.900	4.510	1.520	1.230
SHUS_GPS	232.191	50.781	-0.670	3.380	1.070	1.090
SILV_GPS	238.939	43.125	-2.120	4.470	1.450	1.320
SISK_GPS	236.303	45.483	5.950	8.570	0.480	0.450
SIST_GPS	238.444	44.306	0.924	3.862	0.520	0.527
SITA_GPS	237.447	47.571	1.780	4.020	1.590	1.870
SKIL_GPS	238.103	42.318	-3.680	6.210	0.880	0.920
SKUL_GLA	243.789	36.730	-3.470	-0.200	0.380	0.370
SKYO_GPS	238.872	44.634	0.050	1.950	0.660	0.830
SLID_GPS	240.116	39.314	-9.908	5.598	0.486	0.453
SLVR_GPS	238.428	48.079	2.900	3.720	1.200	1.540
SMEL_GPS	247.155	39.426	-3.077	-0.366	0.400	0.400
SMLT_GPS	243.824	47.546	0.710	0.090	0.580	0.640
SMYC_GLA	244.413	36.320	-3.520	-0.510	0.380	0.370
SNDR_GPS	236.859	47.237	4.550	6.000	0.570	0.580
SNI1_GPS	240.476	33.248	-31.784	34.473	0.416	0.404
SOAM_GPS	236.450	44.038	2.730	7.710	0.520	0.560
SOBE_GPS	236.190	46.663	7.630	9.330	0.490	0.550

SODB_GPS	238.074	37.166	-21.958	25.524	0.477	0.476
SOOS_GPS	235.886	43.885	5.800	10.740	0.680	0.730
SOR4_GPS	237.521	42.065	-3.720	6.340	0.380	0.380
SPAT_GPS	231.673	50.678	-0.380	4.820	0.870	0.900
SPIL_GPS	238.700	46.873	2.080	3.080	0.550	0.620
SPN1_GPS	242.576	47.518	0.290	0.340	0.470	0.470
SPOO_GPS	237.836	47.401	4.040	4.830	0.810	0.830
SPRO_GPS	237.126	45.269	2.970	6.250	0.450	0.430
STEV_GPS	238.117	45.692	2.060	4.340	0.610	0.670
STJO_GPS	307.322	47.595	0.473	0.039	0.414	0.414
STNN_GPS	240.215	41.583	-4.020	2.530	0.660	0.690
STOL_GPS	238.330	45.304	1.860	4.950	0.500	0.590
STRA_GPS	234.417	49.995	3.300	4.340	0.750	0.790
STRI_GLA	243.662	36.645	-3.230	0.150	0.380	0.370
SUAA_GPS	237.827	37.427	-22.133	25.520	0.453	0.450
T739_GPS	236.681	43.465	0.840	7.750	1.020	0.870
T758_GPS	235.607	42.586	-1.060	12.190	0.980	0.900
TAHU_GPS	236.887	47.387	5.670	5.600	0.450	0.480
THR3_GPS	244.897	42.087	-3.310	0.910	0.900	0.890
THUN_GPS	237.710	47.103	3.940	4.800	0.560	0.580
TIBB_GPS	237.552	37.891	-20.026	24.386	0.456	0.453
TID3_GPS	235.670	43.350	5.080	11.270	0.580	0.450
TIGR_GPS	238.015	47.509	2.600	3.270	0.400	0.410
TIMB_GPS	238.288	45.334	2.100	3.510	0.630	0.770
TOBY_GPS	235.336	49.490	4.090	5.300	0.670	0.700
TOKE_GPS	237.572	43.228	-0.990	4.880	0.660	0.710
TOMB_GPS	240.934	43.585	-1.870	1.120	0.720	0.760
TONA_GPS	240.548	48.694	1.620	0.440	0.870	0.940
TRIA_GPS	236.433	44.185	3.000	9.080	0.560	0.610
TRND_GPS	235.849	41.054	3.373	16.454	0.392	0.374
TSWY_GPS	249.403	43.674	-1.326	-0.802	0.505	0.507
TUCK_GPS	236.597	48.140	7.470	4.530	1.380	1.190
TURN_GPS	241.993	42.923	-2.610	0.290	0.880	0.770
TWIN_GPS	236.996	44.325	2.660	5.630	0.850	0.860
U701_GPS	242.417	44.259	-4.910	3.400	2.000	1.480
U727_GPS	236.453	44.594	4.030	8.630	0.570	0.670
U73H_GPS	239.782	44.631	-1.390	1.910	0.800	0.820
U76A_GPS	244.269	43.131	-0.120	-0.960	0.970	0.900
UCD1_GPS	238.249	38.536	-11.530	7.397	0.418	0.415
UCLU_GPS	234.458	48.926	9.010	7.640	0.310	0.300
V162_GPS	244.442	43.490	-2.570	0.260	1.240	0.850
V357_GPS	238.973	42.393	-3.400	4.720	0.690	0.820
V546_GPS	238.122	42.574	-1.940	6.070	0.610	0.670
V696_GPS	241.385	42.450	-2.240	0.740	0.870	0.750
VANC_GPS	237.256	45.672	5.850	4.900	1.030	1.120
VLBI_GPS	236.513	48.390	5.213	4.541	0.367	0.358
WALA_GPS	241.717	46.088	-0.100	0.310	0.500	0.520
WAS2_GPS	234.703	49.752	3.350	4.960	1.750	1.660
WELK_GPS	236.417	43.644	0.680	8.880	1.540	1.850
WHD1_GPS	237.304	48.313	5.300	4.390	0.840	0.900
WHEY_GPS	237.965	45.376	1.070	5.570	0.510	0.560
WHIT_GPS	224.778	60.751	0.640	2.978	0.461	0.458
WILD_GPS	241.629	40.015	-5.460	1.500	1.330	0.930
WILL_GPS	237.832	52.237	-0.604	0.581	0.435	0.435
WILS_GPS	239.479	47.012	2.780	1.420	0.590	0.550
WORD_GPS	237.232	48.141	4.820	3.690	0.640	0.620
WSLR_GPS	237.079	50.127	2.040	2.460	0.380	0.390
X537_GPS	235.943	46.516	8.810	11.060	0.560	0.620
Y109_GPS	238.865	45.233	0.720	2.500	0.460	0.480
Y129_GPS	242.284	42.013	-3.890	1.490	1.050	1.070

Y405_GPS	243.709	45.656	2.290	0.950	0.860	0.930
Y502_GPS	238.634	44.823	0.930	3.120	0.570	0.710
Y683_GPS	236.781	44.689	3.610	7.360	1.540	0.820
YALE_GPS	237.682	46.026	2.130	4.710	0.380	0.400
YAMB_GPS	236.861	45.070	3.150	6.650	0.530	0.560
YOUB_GPS	235.738	48.901	5.880	5.240	0.440	0.430
Z231_GPS	242.667	47.969	2.400	-0.050	1.130	1.380
Z264_GPS	242.112	48.541	0.840	0.720	0.440	0.460
Z478_GPS	236.888	47.033	5.550	6.670	0.470	0.510
RVAL_GPS	244.598	35.142	-2.375	0.701	0.709	0.707
1PDI_GPS	243.837	36.690	-1.554	1.111	0.753	0.758
SHOS_GPS	243.739	36.943	-1.685	1.663	0.752	0.753
SILV_GHT	243.709	35.397	-5.139	0.291	1.320	1.300
FUNE_GPS	243.525	36.397	-3.139	1.452	0.695	0.700
P_42_GHT	243.448	35.426	-4.634	1.925	1.420	1.370
BLAK_GPS	243.425	36.809	-3.124	1.908	1.370	1.370
CLAI_GPS	243.319	36.889	-4.246	1.507	1.370	1.380
P16X_GPS	243.254	36.828	-3.074	2.929	0.779	0.797
F23X_GPS	243.138	36.858	-3.431	2.976	0.750	0.766
MO93_GPS	243.071	36.792	-4.106	2.720	0.758	0.775
BM8Z_GPS	243.022	36.724	-3.242	2.544	0.718	0.725
GS36_GPS	242.958	35.168	-10.024	10.569	1.350	1.360
SCTY_GPS	242.863	37.218	-3.179	2.008	1.040	1.020
STOV_GPS	242.853	36.606	-4.935	3.430	0.757	0.763
GS13_GPS	242.851	35.522	-6.988	8.215	0.698	0.698
GS49_GHT	242.837	35.375	-6.795	11.520	1.300	1.290
PANA_GPS	242.826	36.294	-4.505	3.881	0.678	0.682
GS07_GPS	242.821	36.035	-6.044	5.207	0.698	0.700
GS14_GPS	242.801	35.615	-7.484	7.983	0.700	0.702
RAIN_GPS	242.792	34.975	-9.224	12.368	0.723	0.725
G165_GPS	242.788	36.543	-4.426	3.724	0.763	0.770
X137_GPS	242.720	36.402	-5.299	4.383	0.733	0.733
NEV1_GPS	242.714	37.061	-3.346	2.691	1.010	0.990
GS25_GPS	242.711	35.913	-6.568	6.654	0.698	0.698
M137_GPS	242.700	36.349	-4.904	6.120	0.758	0.766
GS47_GHT	242.683	35.214	-9.331	12.163	1.320	1.320
TRN1_GPS	242.672	35.813	-6.676	6.721	0.709	0.711
GS12_GPS	242.667	35.434	-8.219	10.032	0.704	0.705
GRAP_GPS	242.640	36.992	-3.753	2.477	1.030	1.010
GS20_GPS	242.599	35.769	-7.725	8.200	0.700	0.700
13DD_GPS	242.576	36.340	-6.362	6.102	0.747	0.763
GS27_GPS	242.546	36.053	-7.043	6.623	0.728	0.728
GS48_GPS	242.541	35.584	-8.703	10.695	1.340	1.360
HUNT_GPS	242.521	36.572	-5.277	4.147	1.060	1.050
GS24_GPS	242.518	35.925	-8.409	7.081	0.709	0.711
TINP_GPS	242.500	36.865	-3.966	3.879	1.020	1.010
FMTH_GPS	242.495	35.213	-9.901	12.249	1.320	1.320
JACK_GPS	242.460	36.532	-5.742	4.442	1.060	1.050
GS26_GCO	242.458	35.740	-8.598	8.733	1.170	1.170
GS43_GPS	242.454	36.067	-7.882	6.753	1.280	1.280
TEAK_GPS	242.454	36.759	-4.609	3.783	1.040	1.010
L166_GPS	242.450	36.279	-6.633	5.925	0.760	0.781
GS17_GPS	242.443	35.569	-9.729	10.485	0.700	0.702
GS45_GPS	242.443	36.002	-7.566	7.524	1.280	1.290
FLAT_GPS	242.439	36.519	-5.476	3.964	1.060	1.060
T19S_GPS	242.417	36.232	-7.588	6.121	0.768	0.789
GS11_GPS	242.415	35.429	-9.122	12.012	0.747	0.750
GS50_GPS	242.409	35.083	-10.772	13.997	1.330	1.320
LEEF_GPS	242.388	36.497	-6.008	5.568	1.060	1.070
GS42_GPS	242.368	36.107	-8.190	5.990	1.290	1.300

GS28_GPS	242.359	36.307	-6.582	5.536	0.673	0.669
GS34_GPS	242.328	36.094	-9.959	6.074	1.140	1.120
6813_GPS	242.325	36.150	-8.914	5.348	0.731	0.738
TABL_GPS	242.322	34.382	-20.099	19.628	0.721	0.721
JOB_U_GPS	242.308	35.337	-8.855	12.474	0.686	0.687
MDAY_GPS	242.294	34.743	-13.129	15.444	0.737	0.733
GS16_GPS	242.294	35.470	-9.687	11.689	0.700	0.702
GS19_GPS	242.260	35.660	-9.932	11.302	0.702	0.702
GS35_GPS	242.244	36.217	-7.475	6.811	1.150	1.130
CERR_GPS	242.213	36.538	-7.687	6.259	0.726	0.742
HOLC_GNR	242.155	34.458	-18.278	21.088	0.698	0.698
TTAP_GPS	242.136	34.985	-11.569	15.029	0.702	0.702
GS18_GPS	242.130	35.584	-10.971	11.220	0.702	0.704
FORK_GGE	242.116	36.062	-7.775	8.371	1.100	1.110
GS09_GPS	242.102	35.115	-10.842	14.191	0.707	0.709
GS04_GPS	242.093	36.204	-8.833	8.021	0.696	0.698
BM25_GPS	242.056	36.045	-9.030	10.689	0.752	0.771
GS15_GPS	242.039	35.426	-11.198	11.820	0.705	0.707
GS22_GPS	242.031	35.845	-9.902	11.221	0.735	0.737
WAUC_GPS	242.013	37.092	-6.940	6.690	1.340	1.340
GS03_GPS	241.965	35.668	-10.929	11.659	0.733	0.738
FISH_GPS	241.954	37.737	-4.824	5.324	1.170	1.170
GS01_GPS	241.918	35.225	-11.608	13.572	0.705	0.705
GS02_GPS	241.900	35.494	-11.460	11.698	0.700	0.702
RITA_GPS	241.899	36.914	-8.215	6.223	0.691	0.693
BAMA_GPS	241.881	36.603	-8.723	8.254	0.696	0.698
3188_GPS	241.868	36.466	-9.532	9.371	1.010	0.980
KMED_GPS	241.864	36.023	-9.991	10.155	0.680	0.682
WSTG_GPS	241.848	37.271	-7.143	5.337	0.716	0.718
TROP_GPS	241.794	34.992	-12.529	14.860	0.805	0.802
WMTN_GPS	241.764	37.572	-5.130	5.167	0.705	0.709
ABER_GPS	241.712	36.979	-8.809	7.734	1.050	1.030
OVRO_GPS	241.706	37.233	-7.627	7.205	0.682	0.684
DEER_GPS	241.492	35.086	-12.328	14.733	0.700	0.700
0614_GPS	241.412	35.745	-11.829	10.553	0.689	0.689
SPRN_GPS	241.273	36.185	-11.578	10.421	0.841	0.735
ALRT_PBO	297.660	82.494	-0.083	-1.667	0.900	0.600
SCH2_PBO	293.167	54.832	0.846	0.665	0.474	0.524
THU3_PBO	291.175	76.537	-0.883	-0.439	0.200	0.200
NRC1_PBO	284.376	45.454	0.362	-0.560	0.474	0.418
GOGA_PBO	276.527	33.415	-3.377	-1.220	1.900	1.800
JFWS_PBO	269.752	42.914	-3.912	-5.761	1.600	1.600
RESO_PBO	265.106	74.691	-0.048	-0.251	1.100	1.900
KSU1_PBO	263.391	39.101	-2.239	-1.010	1.300	1.300
WMOK_PBO	261.219	34.738	-0.996	-1.457	1.100	1.100
P040_PBO	257.313	38.071	-0.475	-1.463	0.400	1.000
P039_PBO	256.846	36.448	-0.934	-0.052	0.500	0.400
P044_PBO	256.778	40.172	-0.698	-0.350	0.400	0.300
P038_PBO	256.593	34.147	-1.217	-0.346	0.500	0.500
P043_PBO	255.814	43.881	-0.962	-1.027	1.200	0.700
P054_PBO	255.559	45.846	-0.689	-0.721	1.400	0.900
P055_PBO	255.315	47.117	-0.642	-1.215	1.200	0.800
P042_PBO	255.089	42.052	-1.030	-0.010	0.400	0.300
P037_PBO	254.895	38.422	-0.764	-0.105	0.300	0.400
P035_PBO	254.816	34.601	-1.402	-0.103	0.500	0.500
P041_PBO	254.806	39.949	-0.608	-0.203	0.400	0.300
P036_PBO	254.706	36.420	-1.637	0.299	0.600	0.300
RG17_PBO	254.330	39.762	-3.115	-0.292	1.700	1.700
P123_PBO	254.089	36.635	-0.730	-0.486	1.100	0.800
P034_PBO	253.541	34.946	-1.091	0.027	0.300	0.300

SC01_PBO	253.033	34.068	-0.824	-1.161	0.800	0.700
P052_PBO	252.981	47.375	-0.536	-0.959	0.900	1.000
P026_PBO	252.805	32.659	-1.574	0.945	0.400	0.700
P032_PBO	252.744	41.742	-0.545	-0.254	0.800	0.500
P033_PBO	252.612	43.953	-0.564	-1.150	0.600	0.500
P107_PBO	252.120	35.132	-0.987	0.461	1.200	0.900
P028_PBO	252.092	36.032	-0.955	-0.338	0.500	1.100
P031_PBO	252.091	39.515	0.772	-1.638	1.200	0.800
P051_PBO	251.454	45.807	-0.298	-1.223	0.600	0.500
P012_PBO	250.666	38.097	-1.383	-0.504	1.000	0.800
P718_PBO	250.624	44.753	-2.039	-1.503	1.300	1.400
P011_PBO	250.481	36.150	-0.753	-0.600	1.200	0.800
BLW2_PBO	250.442	42.767	-1.912	-0.099	0.300	0.300
P722_PBO	250.429	45.457	-0.113	-0.898	0.900	0.500
P715_PBO	250.310	43.501	-0.886	-0.296	1.600	1.700
P717_PBO	250.103	44.485	-0.150	-1.391	1.200	1.200
P721_PBO	249.998	45.003	-0.731	-0.788	0.700	0.700
P015_PBO	249.991	34.264	-1.722	-0.188	0.500	0.400
P709_PBO	249.714	44.392	-0.654	-0.381	1.000	0.800
WLWY_PBO	249.713	44.640	4.755	-4.781	0.500	0.300
P720_PBO	249.694	44.943	-0.834	-0.381	0.700	0.600
P716_PBO	249.488	44.718	-10.443	0.924	0.900	0.600
P030_PBO	249.487	41.750	-1.152	-0.676	1.000	0.500
P461_PBO	249.241	45.354	0.580	-0.970	0.900	0.500
P711_PBO	249.139	44.636	11.353	3.432	0.900	0.500
P049_PBO	249.094	47.350	0.353	-0.967	1.200	1.400
P460_PBO	248.971	45.140	0.671	-0.664	0.800	0.900
P680_PBO	248.901	44.598	0.651	-2.462	0.600	0.800
P101_PBO	248.764	41.692	-0.156	-0.759	0.900	0.500
P050_PBO	248.752	48.809	0.806	-1.259	0.900	0.800
P119_PBO	248.742	40.732	-0.392	-0.958	1.100	1.300
P118_PBO	248.650	40.635	-1.095	-0.756	0.600	0.600
P089_PBO	248.585	40.807	-1.089	0.145	0.400	0.300
P360_PBO	248.549	44.318	-1.961	-2.754	0.500	0.500
P684_PBO	248.550	43.919	-2.175	-1.654	0.500	0.400
P112_PBO	248.550	39.817	-0.825	-0.354	0.500	0.600
BBID_PBO	248.474	44.185	-2.566	-2.452	0.600	0.800
HWUT_PBO	248.435	41.607	-0.760	0.049	1.600	1.600
P110_PBO	248.429	39.715	0.171	-1.451	0.700	0.500
MPUT_PBO	248.366	40.016	-2.519	1.051	0.600	0.400
P088_PBO	248.277	40.772	-0.591	-1.347	1.300	1.400
P117_PBO	248.249	40.435	-3.004	-2.247	1.400	1.600
P719_PBO	248.211	45.218	0.772	-1.646	1.400	1.500
P108_PBO	248.055	39.589	-1.735	-0.742	0.500	0.600
SPIC_PBO	247.873	39.306	-2.946	0.862	0.300	0.200
P106_PBO	247.738	39.459	-2.741	-0.535	1.100	1.100
P086_PBO	247.718	40.649	-2.498	0.966	0.400	0.400
P122_PBO	247.668	41.635	-2.262	-0.833	0.300	0.200
P016_PBO	247.639	40.078	-2.719	-0.232	1.400	1.100
FERN_PBO	247.545	35.342	-2.390	0.470	0.300	0.200
P105_PBO	247.496	39.388	-2.744	0.471	0.500	0.700
P706_PBO	247.476	45.043	-0.337	-1.128	1.400	1.400
P114_PBO	247.472	40.634	-2.699	-0.328	0.800	0.400
P045_PBO	247.383	45.383	-0.325	-1.826	1.200	1.300
P057_PBO	247.377	41.757	-2.758	-0.426	0.300	0.300
P681_PBO	247.364	44.400	-2.361	-1.926	1.200	1.300
P121_PBO	247.302	41.803	-2.857	-0.824	0.300	0.300
P104_PBO	247.283	39.186	-1.452	-1.024	1.600	1.100
P675_PBO	247.281	42.212	-3.342	-1.424	1.200	1.200
P678_PBO	247.195	43.449	-2.197	-1.522	1.600	1.300

P111_PBO	246.988	41.817	-2.657	-1.717	1.200	1.200
P084_PBO	246.946	40.494	-3.606	-0.916	1.100	1.100
P113_PBO	246.722	40.671	-3.200	-1.111	1.000	1.200
P046_PBO	246.668	47.030	0.433	-2.009	1.300	1.400
P082_PBO	246.495	39.269	-2.852	-0.505	1.300	1.300
P677_PBO	246.132	42.879	-2.522	-1.297	1.000	1.200
P081_PBO	246.129	39.067	-2.960	-0.297	1.100	1.100
P354_PBO	246.021	44.109	-1.277	-1.494	1.200	1.200
P003_PBO	245.995	32.723	-3.287	0.106	0.700	0.700
GNPS_PBO	245.811	34.309	-2.332	2.911	0.200	0.200
P080_PBO	245.723	39.119	-2.160	-0.287	1.600	1.700
P623_PBO	245.401	34.189	-3.637	0.420	0.400	0.400
GMPK_PBO	245.173	33.051	-3.478	2.626	0.300	0.200
IID2_PBO	244.968	32.706	-3.893	2.321	0.570	0.616
IMPS_PBO	244.855	34.158	-2.556	0.639	0.589	0.572
P626_PBO	244.762	35.291	-3.400	0.035	0.600	0.500
P005_PBO	244.721	39.910	-2.935	-1.064	1.500	1.600
P509_PBO	244.706	32.891	-1.585	3.137	0.600	0.600
P511_PBO	244.704	33.887	-4.550	0.637	0.400	0.400
P500_PBO	244.700	32.690	-6.392	8.937	0.500	0.500
P510_PBO	244.657	33.144	-3.976	1.538	0.600	0.600
P622_PBO	244.634	35.163	-3.605	0.038	0.600	0.500
P501_PBO	244.602	32.876	-4.686	6.439	0.400	0.400
P502_PBO	244.578	32.982	-4.682	3.940	0.500	0.600
P508_PBO	244.571	33.248	-4.873	1.940	0.400	0.400
P499_PBO	244.512	32.980	-6.783	5.041	0.600	0.700
IVCO_PBO	244.493	32.829	-14.864	20.255	0.626	0.534
P506_PBO	244.490	33.081	-6.579	4.042	0.800	0.800
P076_PBO	244.487	39.536	-2.349	-0.458	1.500	1.600
GLRS_PBO	244.479	33.275	-6.872	1.742	0.300	0.500
P621_PBO	244.456	35.473	-3.995	0.042	0.600	0.500
P102_PBO	244.444	39.925	-2.635	0.243	1.500	1.500
P498_PBO	244.430	32.898	-15.286	21.843	0.500	0.500
P497_PBO	244.423	32.835	-16.488	22.143	0.500	0.600
P496_PBO	244.404	32.751	-23.391	28.044	0.500	0.900
P507_PBO	244.388	33.200	-8.963	0.209	0.602	0.644
P495_PBO	244.372	33.045	-11.281	15.244	0.400	0.400
HNPS_PBO	244.365	33.705	-5.858	2.745	0.200	0.300
P611_PBO	244.350	35.205	-4.805	0.045	0.900	1.000
GMRC_PBO	244.340	34.784	-3.720	1.045	0.200	0.200
P505_PBO	244.313	33.424	-5.868	3.346	1.000	0.900
P494_PBO	244.268	32.760	-22.791	26.547	0.600	0.500
CRRS_PBO	244.265	33.070	-14.236	18.442	0.596	0.577
P610_PBO	244.236	34.426	-3.533	0.848	1.100	1.100
P504_PBO	244.234	33.516	-8.565	4.148	0.500	0.500
P607_PBO	244.179	33.741	-6.357	2.849	0.900	1.000
P075_PBO	244.111	39.374	0.643	-5.650	1.500	1.600
I40A_PBO	244.089	34.727	-4.023	1.551	0.400	0.500
OPBL_PBO	244.082	34.370	-2.935	2.651	0.300	0.200
SLMS_PBO	244.022	33.292	-13.573	16.453	0.200	0.200
BEMT_PBO	244.002	34.001	-5.948	5.653	0.300	0.200
P074_PBO	243.950	39.546	-2.751	-0.646	1.400	1.500
BMHL_PBO	243.947	34.251	-3.740	4.454	0.200	0.200
BKAP_PBO	243.920	35.287	-4.903	1.155	0.200	0.200
P601_PBO	243.920	33.959	-6.550	5.455	0.900	1.000
OPCP_PBO	243.917	34.367	-2.836	4.355	0.200	0.200
USGC_PBO	243.915	33.030	-23.913	24.402	0.570	0.574
P618_PBO	243.896	35.142	-4.709	0.155	0.500	0.600
NBPS_PBO	243.852	34.509	-3.431	3.256	0.200	0.300
OPCX_PBO	243.851	34.430	-2.934	4.156	0.300	0.200

P066_PBO	243.830	32.617	-27.898	26.957	0.300	0.300
LDSW_PBO	243.791	34.699	-6.025	2.158	0.300	0.500
P600_PBO	243.788	33.866	-9.654	9.558	0.300	0.400
P491_PBO	243.773	33.575	-15.164	14.858	0.400	0.400
SDHL_PBO	243.721	34.255	-5.921	5.183	0.707	0.629
P087_PBO	243.721	40.363	-2.523	0.659	1.500	1.600
OPRD_PBO	243.708	34.533	-6.431	5.860	0.200	0.200
SHOS_PBO	243.701	35.971	-4.480	1.160	0.200	0.200
OPCL_PBO	243.695	34.428	-5.735	7.860	0.200	0.300
P486_PBO	243.678	33.260	-23.476	22.060	0.300	0.300
CDMT_PBO	243.664	34.829	-7.321	2.961	0.200	0.200
P480_PBO	243.651	32.976	-27.186	25.261	0.300	0.300
CTMS_PBO	243.630	34.124	-7.045	11.662	0.200	0.200
P485_PBO	243.591	33.210	-26.278	24.363	1.200	1.200
P073_PBO	243.576	39.501	-2.954	0.763	1.400	1.500
P490_PBO	243.574	33.523	-18.172	17.873	0.607	0.620
AGMT_PBO	243.571	34.594	-8.129	7.763	0.200	0.200
HCMN_PBO	243.570	34.755	-8.623	4.463	0.200	0.200
LDES_PBO	243.567	34.267	-6.004	10.248	0.698	0.700
P599_PBO	243.463	34.217	-8.943	13.165	1.100	1.100
P483_PBO	243.431	33.059	-26.984	26.066	0.300	0.300
P617_PBO	243.428	35.321	-5.004	2.866	1.100	1.100
P484_PBO	243.379	33.376	-24.473	22.967	0.400	0.400
RDMT_PBO	243.375	34.644	-10.928	8.768	0.300	0.200
P482_PBO	243.329	33.240	-26.078	24.969	0.400	0.300
DSSC_PBO	243.288	33.733	-18.360	19.870	0.400	0.300
P085_PBO	243.264	40.495	-2.920	-0.630	1.500	1.500
P072_PBO	243.259	39.521	-3.655	0.470	0.400	0.400
P615_PBO	243.237	35.205	-6.509	5.371	1.100	1.100
P479_PBO	243.217	33.493	-23.769	22.971	0.800	0.500
ORMT_PBO	243.185	34.675	-11.528	10.872	0.200	0.200
P606_PBO	243.120	34.462	-12.235	11.773	0.500	0.500
BBRY_PBO	243.116	34.264	-12.942	14.774	0.300	0.300
GOLD_PBO	243.111	35.425	-6.511	6.274	0.246	0.259
WOMT_PBO	243.068	34.669	-11.928	11.875	0.200	0.200
LNMT_PBO	243.060	35.090	-7.614	9.275	0.200	0.200
P473_PBO	243.050	32.734	-29.096	27.375	0.300	0.300
P584_PBO	243.048	33.893	-17.756	19.475	0.300	0.300
BSRY_PBO	242.988	34.919	-10.020	11.076	0.200	0.200
TOIY_PBO	242.951	39.542	-3.955	1.277	0.300	0.200
BILL_PBO	242.935	33.578	-25.467	25.678	0.200	0.300
P478_PBO	242.928	33.236	-27.279	26.878	0.200	0.900
P472_PBO	242.895	32.889	-28.691	27.179	0.300	0.300
P589_PBO	242.890	34.621	-13.131	13.479	0.300	0.300
P477_PBO	242.887	33.503	-24.970	24.879	0.400	0.400
PPBF_PBO	242.818	33.836	-22.655	24.236	0.574	0.557
P002_PBO	242.813	39.521	-3.557	0.281	1.700	1.700
P476_PBO	242.810	33.440	-27.273	27.281	0.400	0.400
BAMO_PBO	242.795	40.413	-3.725	1.981	0.300	0.300
P474_PBO	242.751	33.355	-27.606	27.439	0.626	0.654
P588_PBO	242.732	34.785	-10.026	11.882	0.600	0.400
P586_PBO	242.719	34.535	-13.834	13.383	0.700	0.500
P612_PBO	242.684	34.187	-18.247	17.384	0.500	0.800
MLFP_PBO	242.682	33.918	-23.456	24.484	0.200	0.200
P577_PBO	242.681	34.305	-16.743	16.384	0.300	0.400
SCIA_PBO	242.612	34.607	-14.391	15.547	0.552	0.557
P594_PBO	242.610	35.897	-8.487	7.385	0.300	0.400
P470_PBO	242.606	34.462	-15.158	14.848	0.682	0.687
P071_PBO	242.599	39.347	-2.364	0.485	1.700	1.800
P595_PBO	242.597	35.698	-8.194	7.686	0.600	0.600

P464_PBO	242.590	36.159	-7.078	4.886	1.200	1.300
ECFS_PBO	242.588	33.648	-25.666	26.886	0.200	0.200
MAT2_PBO	242.563	33.857	-24.054	25.669	0.505	0.512
EWPP_PBO	242.474	34.104	-23.951	22.688	0.200	0.200
P471_PBO	242.459	33.562	-26.470	26.289	0.500	0.600
P583_PBO	242.457	34.987	-9.820	12.189	0.400	0.400
CPBN_PBO	242.427	35.072	-9.417	11.889	0.500	0.500
P069_PBO	242.395	39.288	-1.267	0.890	1.700	1.700
CNPP_PBO	242.391	33.858	-24.859	25.790	0.200	0.200
SBCC_PBO	242.339	33.553	-27.570	28.391	0.200	0.200
CCCC_PBO	242.329	35.565	-9.500	10.492	0.200	0.200
RAMT_PBO	242.317	35.339	-8.608	11.892	0.200	0.200
PHLB_PBO	242.306	34.925	-11.264	14.707	0.587	0.592
P094_PBO	242.296	37.201	-6.242	1.792	1.800	1.900
P581_PBO	242.271	34.510	-15.637	16.293	0.500	0.500
LORS_PBO	242.246	34.133	-24.824	23.004	0.570	0.574
HOLM_PBO	242.239	70.736	1.367	0.594	0.700	0.700
CHMS_PBO	242.172	34.640	-14.233	15.395	0.200	0.300
SPMS_PBO	242.151	33.993	-25.589	25.572	0.545	0.550
AZU1_PBO	242.104	34.126	-25.493	23.838	0.652	0.555
PBPP_PBO	242.077	34.508	-16.703	18.590	0.570	0.619
CGDM_PBO	242.035	34.244	-24.847	22.398	0.600	1.100
P068_PBO	242.015	39.306	-3.168	0.499	1.700	1.800
P579_PBO	241.994	35.039	-10.020	12.999	1.200	1.200
P022_PBO	241.986	45.232	-0.754	0.900	0.700	0.600
P591_PBO	241.984	35.152	-10.116	12.600	0.500	0.400
RHCL_PBO	241.974	34.019	-27.755	25.100	0.300	0.600
BEPK_PBO	241.926	35.878	-9.990	11.501	0.300	0.600
BKMS_PBO	241.905	33.962	-28.858	30.001	0.300	0.500
P468_PBO	241.882	36.976	-8.152	5.202	1.600	1.700
P099_PBO	241.841	39.212	-3.772	2.503	1.500	1.600
BTDM_PBO	241.812	34.293	-25.647	23.304	0.300	0.300
P562_PBO	241.811	34.982	-11.115	15.289	0.492	0.498
RSTP_PBO	241.807	34.875	-12.826	15.804	0.200	0.200
VDCY_PBO	241.780	34.179	-26.451	24.204	0.300	0.200
PKRD_PBO	241.767	34.072	-26.954	24.505	0.300	0.300
CRHS_PBO	241.727	33.824	-27.564	28.705	0.574	0.600
LASC_PBO	241.693	33.928	-27.628	27.356	0.709	0.712
PVRS_PBO	241.679	33.774	-28.881	29.721	0.587	0.596
ECCO_PBO	241.671	33.887	-27.654	29.122	0.589	0.596
CAT2_PBO	241.666	33.312	-29.881	32.007	0.200	0.200
DSHS_PBO	241.651	34.024	-27.257	26.607	0.400	0.400
P627_PBO	241.621	37.973	-4.717	5.908	1.700	1.700
P651_PBO	241.613	37.563	-5.932	6.108	1.700	1.800
LFRS_PBO	241.587	34.095	-28.377	26.224	0.566	0.572
THCP_PBO	241.585	35.158	-12.517	13.109	0.200	0.200
P133_PBO	241.540	38.725	-3.591	4.210	1.600	1.600
P653_PBO	241.528	37.737	-3.826	6.310	1.700	1.800
ISLK_PBO	241.526	35.662	-11.786	10.431	0.594	0.579
CAT1_PBO	241.517	33.446	-29.873	32.636	0.520	0.550
VNCX_PBO	241.515	34.293	-26.401	24.246	0.561	0.566
VIMT_PBO	241.486	34.126	-27.254	28.011	0.300	0.300
P560_PBO	241.459	34.822	-16.529	17.812	0.400	0.500
P556_PBO	241.455	34.771	-15.431	15.712	0.700	0.800
P650_PBO	241.445	37.891	-5.421	6.612	1.700	1.800
P020_PBO	241.434	47.002	0.108	0.812	0.200	0.300
LAPC_PBO	241.425	34.182	-27.367	28.474	0.577	0.581
P558_PBO	241.388	35.139	-13.519	12.213	1.200	1.200
CTDM_PBO	241.387	34.517	-25.611	21.425	0.606	0.610
P559_PBO	241.382	34.839	-15.629	16.113	0.600	0.600

CBHS_PBO	241.370	34.139	-28.238	29.232	0.561	0.566
P557_PBO	241.344	34.944	-16.026	14.014	0.600	0.500
P643_PBO	241.302	37.562	-2.233	7.815	1.600	1.700
P021_PBO	241.270	48.675	0.568	-0.084	0.500	0.800
P649_PBO	241.264	37.903	-5.421	7.216	1.800	1.800
P453_PBO	241.255	47.759	0.534	0.216	0.600	0.500
P567_PBO	241.246	35.421	-12.609	10.017	0.400	0.400
SFDM_PBO	241.245	34.460	-26.543	23.517	0.300	0.400
P571_PBO	241.233	36.231	-10.681	8.517	0.500	0.900
P642_PBO	241.183	37.591	-13.033	2.218	1.600	1.600
P646_PBO	241.180	37.677	-5.230	7.518	1.600	1.700
EDPP_PBO	241.170	34.946	-17.326	16.818	0.200	0.300
TOST_PBO	241.163	34.248	-28.469	30.023	0.592	0.618
P554_PBO	241.152	34.792	-19.632	19.319	1.400	1.400
P639_PBO	241.131	37.655	-6.631	7.219	1.700	1.700
MPWD_PBO	241.122	34.296	-28.916	29.444	0.594	0.598
P553_PBO	241.121	34.835	-19.730	17.319	0.400	0.500
FMVT_PBO	241.116	34.356	-28.247	28.820	0.300	0.300
P134_PBO	241.070	38.981	-5.384	4.021	1.600	1.600
CIRX_PBO	241.063	34.110	-29.156	30.321	0.300	0.200
P130_PBO	241.062	39.268	-4.174	4.021	1.600	1.700
WGPP_PBO	241.016	35.011	-17.225	16.522	0.200	0.300
P454_PBO	241.007	47.954	2.540	-1.278	1.400	1.500
P630_PBO	241.000	37.613	-6.433	8.422	1.600	1.600
KBRC_PBO	240.992	34.399	-28.046	26.022	1.300	1.400
P648_PBO	240.981	37.800	-9.826	8.623	1.700	1.800
BAR1_PBO	240.970	33.480	-30.978	33.823	0.200	0.300
CSCI_PBO	240.961	34.168	-29.354	30.923	0.300	0.200
P451_PBO	240.959	46.793	0.098	1.023	0.600	0.600
P056_PBO	240.937	36.027	-13.189	5.724	0.500	1.100
SOMT_PBO	240.936	34.320	-29.249	30.324	0.300	0.300
P128_PBO	240.931	39.486	-4.367	3.424	1.700	1.700
P632_PBO	240.914	37.786	-11.527	8.624	1.700	1.700
NHRG_PBO	240.859	34.499	-27.543	23.625	0.300	0.300
OVLS_PBO	240.858	34.327	-28.889	29.202	0.656	0.640
P551_PBO	240.845	34.856	-22.431	17.626	1.800	2.000
RSVY_PBO	240.816	34.541	-28.342	24.126	0.300	0.500
HVYS_PBO	240.812	34.441	-28.446	25.027	0.300	0.300
P566_PBO	240.771	36.324	-11.980	8.127	0.400	0.600
P565_PBO	240.763	35.744	-14.300	7.828	0.700	1.400
VNCO_PBO	240.762	34.276	-31.052	29.428	0.200	0.500
P549_PBO	240.674	34.600	-29.241	21.430	1.700	1.700
BVPP_PBO	240.652	35.157	-18.321	14.630	0.200	0.200
OZST_PBO	240.647	34.683	-28.787	24.343	0.644	0.634
ANA1_PBO	240.637	34.015	-30.861	35.831	0.400	1.200
CSST_PBO	240.629	34.408	-29.647	27.031	0.200	0.300
P563_PBO	240.579	35.419	-13.812	12.132	0.700	0.600
P452_PBO	240.513	47.404	0.317	0.433	0.600	0.500
P095_PBO	240.463	39.698	-6.561	4.334	0.800	0.600
P450_PBO	240.456	45.953	0.364	1.535	0.600	0.400
P127_PBO	240.400	39.499	-7.369	4.336	0.600	0.600
P145_PBO	240.376	41.358	-4.002	3.036	0.600	0.600
P449_PBO	240.369	46.260	0.375	1.437	0.800	0.800
P543_PBO	240.287	35.319	-16.017	17.038	1.200	1.300
RCA2_PBO	240.280	34.500	-31.831	30.441	0.656	0.642
P139_PBO	240.278	39.908	-4.855	4.839	1.600	1.700
P544_PBO	240.262	35.731	-12.103	11.239	0.500	0.600
P725_PBO	240.254	37.089	-10.655	8.739	1.500	1.600
CRU1_PBO	240.215	34.029	-30.977	35.222	0.579	0.572
COPR_PBO	240.120	34.415	-30.649	29.242	0.300	0.200

P547_PBO	240.091	35.935	-9.796	11.443	0.500	0.600
P537_PBO	240.065	35.317	-22.018	23.644	1.200	1.400
P017_PBO	240.064	41.276	-1.907	2.944	2.000	2.000
BBDM_PBO	240.018	34.582	-32.544	32.745	0.900	0.500
P541_PBO	239.999	35.687	-13.206	14.645	0.500	0.600
P448_PBO	239.995	45.911	0.460	1.645	0.600	0.400
FGST_PBO	239.991	34.733	-30.539	32.045	0.300	0.200
P536_PBO	239.975	35.280	-24.620	26.346	1.300	1.400
P307_PBO	239.942	36.947	-12.861	9.646	1.100	0.700
SRS1_PBO	239.935	34.004	-31.465	35.646	0.200	0.200
P535_PBO	239.899	35.235	-26.222	28.747	1.900	1.900
P538_PBO	239.888	35.534	-22.011	23.748	1.200	1.200
P540_PBO	239.869	35.801	-12.402	13.548	0.700	0.800
TJRN_PBO	239.867	34.483	-31.648	33.648	0.200	0.300
P546_PBO	239.845	35.928	-9.598	13.049	0.600	0.700
P539_PBO	239.818	35.703	-15.306	18.949	0.400	0.400
P305_PBO	239.803	37.352	-11.248	7.849	0.500	0.500
P515_PBO	239.760	34.871	-30.435	31.150	1.100	1.100
P532_PBO	239.733	35.634	-22.809	27.751	0.300	0.400
P300_PBO	239.723	36.304	-14.085	7.451	0.300	0.300
ORES_PBO	239.721	34.739	-31.504	34.268	0.598	0.624
P298_PBO	239.706	36.016	-9.195	13.552	1.600	1.600
P310_PBO	239.666	38.736	-11.199	8.353	1.600	1.700
P280_PBO	239.652	35.544	-24.912	29.853	1.200	1.200
MIG1_PBO	239.649	34.038	-31.665	36.453	0.300	0.300
P529_PBO	239.646	35.440	-27.016	30.153	1.200	1.200
P304_PBO	239.643	36.739	-11.270	9.053	0.600	0.700
P296_PBO	239.636	36.052	-8.994	13.653	1.500	1.500
P533_PBO	239.629	35.748	-22.805	29.153	1.100	1.100
P388_PBO	239.622	42.469	-2.466	3.354	1.100	0.900
P516_PBO	239.617	35.106	-30.028	30.554	0.600	0.600
P514_PBO	239.590	35.011	-29.231	32.354	1.300	1.300
GR8V_PBO	239.584	36.399	-12.082	10.554	0.500	0.600
CARH_PBO	239.569	35.888	-21.993	28.043	0.589	0.762
P294_PBO	239.560	36.123	-9.692	11.055	1.100	1.100
MASW_PBO	239.557	35.833	-23.602	28.855	0.400	0.300
LAND_PBO	239.527	35.900	-22.600	29.156	0.500	0.400
HOGS_PBO	239.521	35.867	-23.201	29.556	0.400	0.300
P530_PBO	239.520	35.625	-25.910	31.456	0.500	0.800
P146_PBO	239.463	39.337	-10.479	7.357	1.300	1.300
P293_PBO	239.457	36.089	-8.994	12.057	1.400	1.500
P528_PBO	239.455	35.328	-27.421	33.257	1.400	1.400
P297_PBO	239.448	35.974	-29.398	34.258	0.500	0.600
LOWS_PBO	239.406	35.829	-25.403	31.959	0.400	0.400
P527_PBO	239.395	35.754	-26.506	31.659	1.400	1.400
VNDP_PBO	239.384	34.556	-32.538	34.830	0.355	0.359
P302_PBO	239.381	36.635	-12.175	8.559	0.500	0.300
P306_PBO	239.356	37.795	-12.434	7.260	1.200	1.300
USLO_PBO	239.339	35.312	-28.822	34.860	0.400	0.500
P445_PBO	239.328	45.590	0.245	2.560	0.600	0.500
P140_PBO	239.307	38.829	-12.198	7.061	1.300	1.300
P287_PBO	239.302	36.025	-32.097	31.661	1.000	0.400
P303_PBO	239.295	37.054	-11.061	8.561	0.500	0.400
P301_PBO	239.257	36.806	-10.870	8.362	0.500	0.300
CRBT_PBO	239.249	35.792	-27.005	33.462	0.400	0.500
P148_PBO	239.194	40.419	-6.342	3.863	1.300	1.400
P525_PBO	239.192	35.426	-29.918	34.063	1.600	1.600
P295_PBO	239.158	35.697	-27.109	33.764	0.300	0.700
P526_PBO	239.130	35.636	-26.911	35.465	0.500	1.300
P288_PBO	239.121	36.140	-29.994	32.065	0.900	0.700

P284_PBO	239.093	35.933	-29.601	31.566	0.500	0.300
P065_PBO	239.067	46.844	1.089	1.466	1.700	1.800
P309_PBO	239.049	38.090	-9.825	7.767	0.600	0.700
P285_PBO	239.019	36.417	-12.585	12.467	1.200	1.200
P067_PBO	238.997	35.552	-29.415	34.268	0.600	1.700
P252_PBO	238.942	37.170	-11.358	7.869	0.500	0.600
P278_PBO	238.939	35.711	-29.210	35.569	0.600	0.700
P249_PBO	238.936	36.612	-11.878	7.569	1.100	1.100
P444_PBO	238.932	48.730	0.456	3.769	1.200	1.300
P260_PBO	238.916	37.711	-11.540	7.570	1.200	0.600
P276_PBO	238.905	38.645	-10.807	7.070	0.600	0.500
P259_PBO	238.899	37.433	-12.049	4.470	0.900	0.400
P175_PBO	238.865	36.426	-28.885	32.871	1.100	1.100
QCYN_PBO	238.863	36.161	-29.594	35.271	1.000	0.700
P247_PBO	238.812	36.560	-28.581	33.572	1.100	1.100
P275_PBO	238.785	38.322	-11.319	6.473	1.200	1.300
P255_PBO	238.675	37.582	-11.645	8.275	1.000	1.000
P244_PBO	238.645	37.011	-13.566	9.076	0.500	0.500
P273_PBO	238.612	38.116	-10.327	5.976	0.800	0.900
P242_PBO	238.537	36.954	-19.068	18.578	0.700	1.000
P257_PBO	238.536	37.755	-10.840	7.678	0.500	0.500
HCRO_PBO	238.530	40.816	-7.069	5.717	1.181	0.843
P674_PBO	238.510	41.616	-5.803	3.379	1.300	1.400
P672_PBO	238.493	41.712	-3.800	4.679	0.800	1.000
P240_PBO	238.458	37.008	-20.667	22.980	0.900	0.600
P387_PBO	238.426	44.297	1.893	2.081	1.400	1.500
P234_PBO	238.409	36.859	-27.972	30.181	1.200	1.200
P256_PBO	238.395	37.932	-11.934	8.281	0.500	0.500
P442_PBO	238.384	48.260	1.336	0.682	1.400	1.200
P268_PBO	238.354	38.474	-14.216	7.182	1.500	0.500
P217_PBO	238.349	37.104	-21.464	22.082	0.500	0.700
P432_PBO	238.317	46.623	1.876	2.983	0.400	0.300
P228_PBO	238.313	37.602	-12.047	11.083	0.500	0.500
P218_PBO	238.286	37.204	-21.461	22.084	1.200	0.700
P271_PBO	238.285	38.657	-11.709	6.984	0.600	0.400
P210_PBO	238.268	36.816	-29.374	32.484	0.800	0.400
P380_PBO	238.220	42.260	-2.082	5.485	0.900	0.400
P227_PBO	238.210	37.533	-13.749	12.685	0.700	0.700
P171_PBO	238.207	36.486	-29.786	35.986	0.300	0.800
P267_PBO	238.177	38.380	-8.520	9.986	1.100	1.400
P226_PBO	238.174	37.337	-22.057	21.186	1.100	1.200
P266_PBO	238.156	38.184	-11.627	7.587	0.800	0.700
P212_PBO	238.137	36.962	-27.970	30.887	1.300	1.300
P429_PBO	238.123	45.676	1.941	5.087	1.100	1.200
P231_PBO	238.095	36.622	-30.582	35.788	1.700	1.800
P272_PBO	238.057	39.145	-10.693	4.689	1.300	0.900
P265_PBO	238.046	38.530	-9.715	7.189	1.800	0.800
P229_PBO	238.022	37.749	-15.443	14.790	1.200	0.400
P431_PBO	238.012	46.572	-0.628	3.090	1.400	1.500
P213_PBO	238.009	37.202	-22.562	27.090	0.700	0.400
P344_PBO	237.972	39.929	-10.566	5.991	1.400	1.400
P270_PBO	237.945	39.244	-8.791	6.591	1.000	0.900
P225_PBO	237.942	37.714	-15.245	17.092	0.500	0.400
P222_PBO	237.917	37.539	-21.251	24.792	0.800	0.400
P262_PBO	237.904	38.025	-13.534	14.492	1.300	1.100
P701_PBO	237.867	46.195	-0.742	2.193	1.400	1.600
WINT_PBO	237.859	37.653	-19.219	21.004	0.558	0.490
P696_PBO	237.848	46.197	0.858	3.694	1.200	0.900
P695_PBO	237.836	46.199	-1.242	4.894	1.100	1.800
P694_PBO	237.818	46.300	2.261	4.294	1.400	1.400

P264_PBO	237.805	38.444	-11.920	10.695	0.700	0.400
P703_PBO	237.804	46.145	0.855	2.895	1.500	1.600
P693_PBO	237.798	46.210	4.058	2.395	1.800	1.100
SLAC_PBO	237.796	37.417	-23.956	28.495	0.400	0.300
P655_PBO	237.794	41.294	-3.719	5.495	1.400	1.500
P261_PBO	237.782	38.153	-12.530	14.295	0.800	0.500
P224_PBO	237.781	37.864	-16.240	18.795	0.700	0.700
P691_PBO	237.773	46.231	0.958	3.295	1.400	1.600
P345_PBO	237.729	40.271	-8.255	6.196	0.900	0.600
P208_PBO	237.696	39.109	-10.197	6.897	0.900	1.200
P705_PBO	237.689	46.173	1.956	5.097	1.400	1.500
P349_PBO	237.681	40.731	-6.639	5.597	0.900	0.600
P427_PBO	237.659	45.430	2.429	5.298	0.900	0.700
P687_PBO	237.645	46.110	4.553	6.398	0.600	0.500
P689_PBO	237.639	46.190	4.056	4.198	0.800	0.900
P181_PBO	237.623	37.915	-19.339	24.799	0.500	0.900
P060_PBO	237.585	40.998	-5.130	6.300	1.000	0.500
P421_PBO	237.571	46.532	5.868	3.100	0.600	0.700
P200_PBO	237.548	38.240	-14.428	18.500	0.800	0.500
P440_PBO	237.507	48.856	1.751	2.801	1.000	1.100
P199_PBO	237.497	38.264	-15.228	18.901	0.700	0.500
P426_PBO	237.485	47.803	1.513	1.402	1.300	1.400
PCOL_PBO	237.429	47.172	4.490	6.203	1.100	1.100
P206_PBO	237.424	38.778	-12.910	14.203	1.400	1.300
P379_PBO	237.423	44.497	2.494	5.703	1.200	1.200
P412_PBO	237.411	45.221	1.670	6.896	1.015	0.865
P341_PBO	237.393	40.651	-6.544	7.104	1.000	0.800
P198_PBO	237.393	38.260	-17.528	22.304	0.500	0.400
P370_PBO	237.344	42.191	-1.089	7.305	0.900	1.200
P438_PBO	237.330	48.419	1.034	1.105	1.400	1.400
P414_PBO	237.307	45.835	4.541	4.706	1.100	1.100
P196_PBO	237.257	38.298	-18.028	25.207	1.200	1.100
P197_PBO	237.233	38.429	-16.123	26.007	0.800	0.700
P420_PBO	237.134	46.589	3.967	5.510	0.700	0.800
P377_PBO	237.113	44.052	3.976	5.310	1.200	1.300
P439_PBO	237.091	48.708	4.143	3.511	0.500	0.500
TWHL_PBO	237.077	47.016	4.182	5.811	0.400	0.200
P338_PBO	237.077	40.748	-6.942	6.711	0.900	0.800
P423_PBO	237.059	47.288	4.692	4.811	0.400	0.400
P371_PBO	236.942	43.363	0.650	6.914	1.000	0.600
P183_PBO	236.931	38.314	-22.329	32.614	1.100	1.100
P376_PBO	236.898	44.941	2.506	6.515	0.300	0.600
P192_PBO	236.895	39.320	-15.294	14.915	0.700	0.800
P436_PBO	236.866	48.045	4.618	3.916	0.700	0.900
P406_PBO	236.848	45.190	3.715	5.116	1.100	1.600
P411_PBO	236.843	45.538	5.527	5.016	1.200	1.300
P332_PBO	236.825	40.547	-6.851	7.716	1.000	0.700
P182_PBO	236.819	38.495	-22.323	32.617	1.500	1.600
P190_PBO	236.796	39.242	-17.797	18.117	0.700	0.400
P188_PBO	236.770	38.668	-24.217	27.118	1.900	2.000
P409_PBO	236.761	45.851	4.938	5.518	0.600	1.400
P319_PBO	236.705	39.707	-16.481	10.219	0.400	0.400
P417_PBO	236.702	46.575	4.864	5.419	0.500	0.800
P373_PBO	236.667	43.623	1.258	7.120	0.600	1.000
P189_PBO	236.652	38.987	-21.007	26.020	0.500	0.500
P318_PBO	236.628	39.452	-18.091	14.421	1.200	1.300
P408_PBO	236.623	46.201	5.050	5.821	0.600	0.800
P368_PBO	236.617	42.504	-1.383	8.021	0.900	1.100
P404_PBO	236.610	45.159	4.212	6.021	0.900	1.500
P418_PBO	236.592	47.237	3.687	4.022	1.300	1.400

P369_PBO	236.571	43.140	0.940	8.122	0.700	0.800
P430_PBO	236.564	47.004	5.778	6.422	0.600	0.600
P435_PBO	236.497	48.060	6.116	4.824	0.800	1.400
P317_PBO	236.448	39.906	-17.876	13.625	1.200	1.200
P313_PBO	236.435	39.554	-21.888	20.625	1.200	1.200
P314_PBO	236.418	39.686	-22.384	19.326	0.400	0.400
P374_PBO	236.409	44.382	3.583	6.326	1.100	1.100
P187_PBO	236.397	39.352	-21.396	23.726	0.500	1.200
P405_PBO	236.356	45.629	5.828	6.527	1.200	1.300
P324_PBO	236.344	40.257	-11.864	13.327	1.100	1.100
P164_PBO	236.307	40.119	-14.323	15.034	0.505	0.492
P312_PBO	236.302	39.529	-21.490	23.428	1.200	1.200
P326_PBO	236.301	40.575	-5.393	7.992	0.654	0.640
SC03_PBO	236.294	47.817	6.806	6.328	0.900	0.800
P315_PBO	236.283	39.864	-22.178	19.929	0.500	0.600
P059_PBO	236.274	38.928	-24.811	37.229	1.500	1.500
P415_PBO	236.270	46.656	6.864	7.729	0.500	0.500
P165_PBO	236.147	40.246	-12.066	16.432	1.200	1.200
P395_PBO	236.142	45.022	6.504	8.532	0.800	1.000
P170_PBO	236.137	40.880	-0.004	13.794	1.080	0.975
P166_PBO	236.137	40.435	-6.559	15.532	0.500	0.800
P167_PBO	236.120	40.544	-4.355	14.432	0.900	0.800
P168_PBO	236.119	40.669	-1.288	13.780	0.520	0.687
P325_PBO	236.117	41.152	2.654	10.816	0.748	0.738
P156_PBO	236.094	40.024	-19.174	22.233	1.200	1.300
P398_PBO	236.084	46.926	7.872	8.133	1.300	1.400
P169_PBO	236.032	40.791	0.853	15.334	0.600	0.400
P061_PBO	235.986	42.967	2.030	9.235	1.100	1.400
P163_PBO	235.943	40.220	-14.768	23.536	1.100	1.200
P058_PBO	235.925	40.876	1.355	17.036	0.700	0.700
P316_PBO	235.914	41.559	1.179	9.037	1.300	1.400
P158_PBO	235.893	40.422	-5.961	22.937	0.500	0.500
P160_PBO	235.867	40.551	-4.200	20.072	0.689	0.616
P403_PBO	235.859	48.062	12.111	12.938	0.800	1.100
P161_PBO	235.787	40.637	0.146	21.740	0.900	1.000
P162_PBO	235.763	40.691	3.548	20.940	0.500	0.500
P159_PBO	235.717	40.505	-2.059	24.741	1.500	1.600
P157_PBO	235.692	40.248	-19.168	31.542	1.100	1.100
P401_PBO	235.443	47.937	15.123	10.497	0.471	0.496
AIS1_PBO	228.400	55.069	-0.203	4.198	0.800	0.500
AB51_PBO	227.086	56.798	-2.856	3.325	0.700	0.800
AB49_PBO	226.932	55.580	-1.200	4.228	1.100	1.200
INVK_PBO	226.473	68.306	0.535	0.937	0.400	0.900
AB50_PBO	225.455	58.417	-0.518	0.958	1.100	0.800
AB48_PBO	225.353	56.245	-1.194	6.860	0.700	0.900
AB44_PBO	224.772	59.528	1.313	4.071	1.300	1.100
BIS1_PBO	224.461	56.854	-3.783	7.878	0.300	0.600
GUS2_PBO	224.303	58.418	-0.731	1.781	0.400	0.600
AB41_PBO	218.842	64.777	1.715	-11.715	1.500	1.600
AC65_PBO	216.296	62.832	-12.486	26.731	1.800	0.800
AB37_PBO	214.548	62.967	-26.208	14.161	0.500	0.800
AC57_PBO	214.257	61.139	-13.573	24.266	1.400	1.400
AC63_PBO	214.153	63.502	6.104	-4.032	0.500	0.800
AC62_PBO	213.687	63.084	-22.317	6.976	0.500	0.500
CLGO_PBO	212.140	64.874	2.418	-6.499	0.500	0.700
PBOC_PBO	211.665	70.256	-2.415	1.509	0.600	0.500
GRNR_PBO	211.022	63.836	-1.734	-2.080	0.500	0.600
ATW2_PBO	210.868	61.598	-12.709	11.022	0.700	0.800
AC15_PBO	210.276	60.481	-12.355	16.931	1.600	1.400
AC53_PBO	209.931	61.769	-5.419	-0.363	1.500	1.600

AB33_PBO	209.827	67.251	3.157	-8.061	1.400	1.500
AC06_PBO	209.109	59.764	-2.697	4.450	1.300	1.200
SELD_PBO	208.293	59.446	1.380	-9.138	0.800	0.900
KOD5_PBO	207.807	57.618	-9.287	19.670	0.500	0.800
AC39_PBO	207.606	58.610	3.042	-8.827	1.500	1.700
AC17_PBO	207.596	60.664	1.107	-14.527	1.500	1.600
AB28_PBO	207.185	62.094	1.447	-12.121	1.200	1.200
AC34_PBO	206.721	57.220	-11.917	14.186	1.200	1.200
AC59_PBO	206.415	59.567	2.953	-13.310	0.500	0.600
AC27_PBO	205.837	59.253	3.133	-11.301	0.700	0.700
AC45_PBO	205.819	56.564	-14.652	24.799	1.200	1.200
AC02_PBO	205.817	56.951	-14.140	14.199	1.300	1.700
AB22_PBO	205.302	59.899	5.145	-10.994	1.200	1.300
MAUI_PBO	203.743	20.707	-59.690	53.128	0.600	0.700
SG27_PBO	203.390	71.323	0.672	-2.567	0.500	1.400
AB13_PBO	201.496	56.307	-6.332	4.458	1.300	1.400
AC21_PBO	200.872	55.921	-8.954	4.766	1.600	1.800
KOKB_PBO	200.335	22.126	-59.844	52.241	0.632	0.592
AB15_PBO	200.122	61.040	2.990	-6.625	1.400	1.600
AC41_PBO	199.593	55.909	-3.977	0.882	1.300	1.400
AB07_PBO	199.523	55.349	-8.395	4.282	0.600	0.800
AC31_PBO	197.761	64.638	3.557	-7.497	1.200	1.300
BAY2_PBO	197.293	55.190	-6.238	-2.691	0.500	1.200
AB11_PBO	194.627	64.564	4.194	-6.162	1.300	1.300
AV15_PBO	194.290	54.100	-8.923	-4.459	1.100	1.600
AV06_PBO	194.234	54.147	-3.523	-3.558	1.000	1.400
AV14_PBO	194.158	54.119	-2.425	-5.158	1.200	1.300
AV12_PBO	194.102	54.211	-1.523	-1.257	1.000	1.800
AV10_PBO	194.066	54.098	-3.927	-4.357	1.400	1.900
AV08_PBO	193.972	54.136	-3.328	-3.156	0.800	1.600
AV09_PBO	193.458	53.876	-6.344	-3.051	0.900	1.300
AB21_PBO	183.337	51.864	-11.283	5.330	1.800	1.900
LLCO_GPS	243.839	31.257	-32.331	31.783	0.920	0.910
SPMX_GPS	244.534	31.045	-32.751	30.337	1.040	1.050
CICE_GPS	243.333	31.871	-29.954	30.882	0.980	0.990
PENA_GPS	246.480	31.354	-2.985	1.997	0.830	0.810
MAYR_GPS	244.757	31.988	-25.281	27.259	1.210	1.120
SCIP_GPS	241.512	32.914	-31.659	33.573	0.970	0.990
BLUF_GPS	241.481	32.927	-30.585	35.334	0.880	0.910
TWIN_GPS	240.521	33.232	-31.040	35.542	0.890	0.910
BRSH_GPS	241.595	33.407	-29.362	33.790	0.860	0.920
SBIS_GPS	240.959	33.472	-31.318	35.145	0.930	0.980
SNRI_GPS	239.894	33.951	-30.864	36.098	0.940	0.930
CENT_GPS	240.247	33.995	-29.811	34.414	0.920	0.920
VTIS_GPS	241.706	33.713	-28.534	30.755	1.020	1.050
PVHS_GPS	241.628	33.779	-27.745	29.748	1.120	1.140
TORP_GPS	241.669	33.798	-28.521	30.387	0.910	0.940
WRHS_GPS	241.572	33.958	-27.816	28.301	1.160	1.180
AOA1_GPS	241.170	34.157	-29.142	30.306	0.860	0.890
SPK1_GPS	241.354	34.059	-28.523	29.879	0.870	0.900
UCLP_GPS	241.558	34.069	-27.226	27.771	0.860	0.890
OXCO_GPS	241.438	34.179	-26.753	30.876	0.990	1.000
MCDS_GPS	241.457	34.202	-26.457	30.475	0.990	1.000
LEEP_GPS	241.678	34.135	-27.511	25.886	0.860	0.890
OXYC_GPS	241.793	34.129	-27.186	24.512	1.150	1.170
CIT1_GPS	241.873	34.137	-26.016	24.639	0.840	0.870
BRAN_GPS	241.723	34.185	-27.119	24.555	0.860	0.890
1101_GPS	243.017	32.569	-28.147	30.114	1.050	1.190
OTAY_GPS	243.159	32.601	-26.763	29.209	1.480	1.210
VA01_GPS	243.442	32.245	-28.561	29.428	1.080	1.100

1102_GPS	243.523	32.607	-28.041	29.035	1.030	1.120
LPUR_GPS	244.657	32.356	-19.825	27.333	0.890	0.890
SD17_GPS	242.852	32.818	-29.209	29.221	1.200	1.500
SOLJ_GPS	242.747	32.840	-28.260	30.155	1.110	1.090
SIO3_GPS	242.750	32.865	-28.394	28.615	0.730	0.760
1106_GPS	243.198	32.844	-28.021	28.587	0.960	1.040
SD18_GPS	243.069	32.912	-28.230	29.862	1.030	1.140
1107_GPS	242.723	33.130	-29.084	30.186	1.010	1.110
SD21_GPS	243.381	32.824	-27.291	28.431	0.950	1.030
OCTI_GPS	243.998	32.734	-28.101	28.357	0.970	0.960
BORD_GPS	244.494	32.664	-21.202	26.349	1.090	1.070
T124_GPS	244.500	32.738	-21.183	20.719	0.920	0.930
OCOT_GPS	244.204	32.790	-24.832	27.120	0.910	0.910
E122_GPS	244.406	32.800	-17.154	22.102	1.320	1.160
COLL_GPS	244.498	32.827	-14.864	20.255	0.626	0.534
SD35_GPS	243.429	32.914	-29.609	28.779	1.080	1.180
MONP_GPS	243.578	32.892	-27.929	27.943	0.790	0.810
SD15_GPS	243.402	33.074	-27.797	27.880	1.200	1.740
L589_GPS	244.239	32.951	-22.811	25.678	0.920	0.890
ORIE_GPS	244.594	32.917	-3.299	4.535	0.950	0.910
HAMA_GPS	244.499	33.038	-8.675	2.169	1.800	1.720
CPEI_GPS	245.086	32.251	-8.913	7.697	1.120	1.130
MONT_GPS	244.925	32.559	-6.620	1.493	1.100	1.120
ASA1_GPS	244.754	32.629	-8.018	7.749	1.050	0.960
JUNC_GPS	244.938	32.709	-4.012	2.552	1.050	0.990
GLOC_GPS	244.753	32.840	-4.513	-0.321	0.920	0.880
YUMA_GPS	245.797	32.939	-1.616	2.961	1.040	0.960
0301_GPS	242.435	33.375	-27.443	29.967	0.970	1.020
0303_GPS	242.841	33.332	-26.545	29.301	1.260	1.440
PMOB_GPS	243.140	33.357	-25.496	27.040	1.000	1.020
SCMS_GPS	242.365	33.444	-28.723	31.060	1.020	1.040
DANA_GPS	242.291	33.464	-28.115	30.922	0.950	0.980
1202_GPS	242.320	33.469	-27.775	29.841	0.940	0.960
KITE_GPS	242.284	33.554	-28.241	30.663	1.080	0.990
SJOA_GPS	242.184	33.602	-28.326	30.807	1.240	1.260
TRAK_GPS	242.197	33.618	-26.112	29.436	0.850	0.880
YUNG_GPS	242.855	33.430	-27.159	27.601	0.980	1.040
ROSA_GLA	242.811	33.505	-25.598	28.232	1.160	1.150
RDEC_GPS	243.068	33.468	-24.325	27.072	1.160	1.250
A586_GPS	243.164	33.484	-24.013	27.239	1.080	1.140
CARY_GPS	243.265	33.545	-21.870	25.815	1.010	1.060
LAKE_GPS	242.645	33.620	-25.484	28.329	1.150	1.240
DASH_GPS	242.914	33.636	-23.507	27.278	1.030	1.070
R293_GPS	243.152	33.630	-22.225	26.429	1.050	1.120
MVFD_GPS	243.475	33.211	-24.873	26.527	1.080	1.100
1108_GPS	243.307	33.234	-26.733	27.363	1.010	1.100
1109_GPS	243.753	33.160	-23.474	24.356	0.940	1.030
SDG6_GPS	243.297	33.382	-25.094	27.284	0.960	1.000
1110_GPS	244.112	33.177	-15.159	16.273	0.940	0.970
EXTR_GPS	244.138	33.179	-15.889	14.492	1.560	1.510
COAC_GPS	244.593	33.196	-3.147	3.095	1.050	0.980
1111_GPS	244.481	33.231	-5.045	1.399	1.040	1.030
DHLG_GPS	244.212	33.390	-11.776	9.899	0.860	0.880
07NE_GPS	244.248	33.412	-10.491	8.198	1.190	1.220
CRAV_GPS	243.299	33.543	-21.691	24.954	0.970	0.990
HOWY_GPS	243.283	33.550	-21.829	25.884	0.980	1.020
TBLM_GPS	243.411	33.527	-20.219	23.959	1.010	1.050
G114_GPS	243.387	33.550	-19.132	23.640	1.040	1.080
LOKT_GPS	243.426	33.553	-18.982	22.159	0.900	0.930
ROBO_GPS	243.939	33.441	-12.295	16.929	1.050	1.050

M586_GPS	243.311	33.555	-20.959	25.523	1.150	1.180
ANZA_GLA	243.338	33.556	-20.779	24.892	0.890	0.910
G109_GPS	243.366	33.557	-20.550	24.921	1.050	1.080
G120_GPS	243.397	33.565	-19.758	23.490	1.160	1.200
RCUT_GPS	243.404	33.568	-18.738	22.950	1.050	1.080
0821_GPS	243.429	33.561	-18.770	20.279	1.440	1.670
G128_GPS	243.442	33.562	-17.120	22.638	1.250	1.330
G125_GPS	243.421	33.564	-20.039	22.209	1.240	1.270
TOME_GLA	243.320	33.619	-19.062	23.293	0.990	1.060
ROCH_GLA	243.390	33.611	-18.266	22.650	0.810	0.830
PMCN_GPS	243.483	33.571	-17.989	22.267	1.010	1.050
D138_GPS	243.502	33.571	-16.630	19.896	1.170	1.210
PF6_GLA	243.516	33.581	-16.707	19.395	1.020	1.070
GREN_GPS	243.553	33.574	-16.560	18.434	1.120	1.140
PF1_GPS	243.570	33.584	-15.618	19.483	0.960	1.000
PF5C_GPS	243.523	33.603	-16.332	20.605	1.180	1.150
PINY_GPS	243.541	33.609	-16.191	18.364	0.950	0.920
PIN1_GLA	243.542	33.612	-16.390	19.534	0.800	0.820
ASBS_GPS	243.538	33.620	-15.698	18.505	0.940	1.000
BNDY_GPS	243.562	33.599	-16.764	21.084	1.170	1.180
T138_GPS	243.580	33.609	-16.452	21.363	1.650	1.590
JOES_GPS	243.410	33.646	-17.397	20.999	0.940	0.950
L587_GPS	243.589	33.623	-18.068	19.863	1.430	1.410
WHAY_GPS	243.528	33.684	-14.991	19.665	0.970	0.970
RSRT_GPS	243.609	33.688	-13.052	17.582	0.970	1.000
CAHU_GPS	243.726	33.639	-12.678	15.897	1.050	1.080
VORO_GPS	243.840	33.628	-12.114	13.243	1.280	1.190
TRAN_GPS	244.167	33.429	-11.445	9.451	0.970	0.980
S_31_GPS	244.230	33.427	-8.627	8.339	1.300	1.270
25SE_GPS	244.217	33.441	-10.523	8.679	1.070	1.120
SIPH_GPS	244.322	33.427	-6.999	3.485	0.920	0.940
VARN_GPS	244.086	33.503	-12.313	7.904	1.060	1.020
PAIN_GPS	243.992	33.612	-8.992	7.657	1.050	1.070
N125_GPS	244.138	33.640	-5.159	3.792	1.640	1.660
1113_GPS	244.036	33.677	-7.076	4.596	1.180	1.380
BLAC_GLA	244.280	33.664	-4.176	1.817	0.860	0.880
FIFT_GPS	242.091	33.748	-26.885	29.950	1.090	1.230
SAN1_GLA	242.465	33.709	-25.575	26.776	1.120	1.100
CCCS_GPS	242.135	33.863	-26.296	25.778	1.040	1.070
OAKD_GPS	242.402	33.847	-25.267	26.788	0.920	0.960
0819_GPS	242.453	33.884	-24.609	26.506	0.930	0.960
SJUA_GPS	242.262	33.914	-25.616	26.334	0.860	0.880
METZ_GLA	242.768	33.796	-23.020	25.864	1.170	1.120
INDO_GLA	243.223	33.794	-14.893	23.407	1.030	1.060
LAST_GLA	242.691	33.837	-23.408	26.257	0.970	1.070
SGHS_GPS	241.891	34.089	-24.239	24.478	1.190	1.210
SNTZ_GPS	242.116	34.042	-22.178	24.849	1.400	1.180
LIMP_GPS	242.451	33.975	-24.234	26.006	1.110	1.140
SANO_GPS	242.487	34.018	-22.734	24.555	1.020	1.050
JUR3_GPS	242.557	34.032	-23.122	24.682	0.920	0.930
STEE_GPS	242.470	34.077	-23.348	25.685	1.170	1.200
PSEB_GPS	242.311	34.121	-23.962	22.612	1.070	1.110
VERN_GPS	242.274	34.137	-24.367	21.493	1.210	1.200
THRT_GPS	242.503	34.136	-22.843	21.134	1.690	1.870
ANGA_GPS	242.395	34.172	-22.641	23.158	1.210	1.240
SANS_GPS	242.496	34.212	-20.773	20.564	1.080	1.090
BRI2_GLA	242.861	34.014	-17.055	21.210	0.940	0.990
0818_GPS	242.896	34.022	-17.684	20.569	1.080	1.110
RTHS_GPS	242.647	34.089	-22.069	22.249	0.960	0.990
BRYN_GPS	242.734	34.063	-21.669	23.495	1.540	1.750

CRFP_GPS	242.900	34.039	-18.890	19.999	0.830	0.860
CHER_GLA	243.048	34.003	-14.933	20.713	1.090	1.100
WD91_GLA	243.288	33.714	-18.236	22.384	0.960	1.000
PTHP_GPS	243.701	33.714	-12.727	15.788	0.930	0.940
DUNP_GPS	243.719	33.750	-11.148	14.008	1.060	1.050
COCH_GLA	243.842	33.740	-9.384	9.553	0.990	1.020
GAPP_GLA	243.829	33.749	-8.772	10.324	0.970	0.990
BERD_GPS	243.825	33.810	-7.445	8.164	1.050	1.050
WIDC_GPS	243.608	33.935	-10.546	17.902	0.930	0.950
DESO_GPS	244.600	33.715	-2.082	1.145	1.030	0.960
JTRE_GPS	244.236	33.834	-1.900	2.868	1.130	1.130
F726_GPS	244.001	33.974	-4.757	4.357	1.570	1.700
FORD_GPS	245.011	33.609	-2.121	0.930	1.790	1.720
1114_GPS	244.757	33.681	-3.575	1.679	1.240	1.060
BLYT_GPS	245.285	33.610	-2.868	1.420	0.800	0.810
COXO_GPS	244.773	34.040	-0.711	1.039	1.830	1.760
ENDD_GPS	245.519	34.044	-0.910	1.221	1.210	0.990
HARV_GPS	239.318	34.469	-32.739	34.162	0.850	0.900
LACU_GPS	240.286	34.494	-30.698	30.462	0.960	0.960
RUS1_GPS	239.373	34.571	-29.703	36.709	1.320	1.230
ALVA_GPS	239.383	34.593	-31.057	35.479	1.350	1.230
GAVI_GPS	239.801	34.502	-29.833	33.182	1.030	0.980
SNP2_GPS	240.990	34.440	-29.341	26.294	1.260	1.280
ROCK_GPS	241.324	34.236	-27.485	30.340	0.880	0.910
CHT3_GPS	241.359	34.257	-27.810	29.939	0.840	0.870
CSN1_GPS	241.476	34.254	-27.004	26.394	0.900	0.930
DELO_GPS	241.489	34.258	-24.993	26.514	1.110	1.160
OATT_GPS	241.399	34.330	-30.291	24.067	1.250	1.280
PICO_GNR	241.399	34.331	-28.021	26.197	0.810	0.840
CMP9_GPS	241.589	34.353	-26.280	24.490	0.870	0.900
0102_GPS	240.736	34.566	-29.500	25.324	1.290	1.170
MUNS_GPS	240.700	34.636	-27.650	24.475	0.970	0.950
LVMS_GPS	240.896	34.734	-24.689	21.027	1.140	1.170
WKPK_GPS	241.259	34.569	-24.969	21.394	0.514	0.494
QHTP_GPS	241.755	34.629	-19.131	19.353	1.150	1.170
LOSP_GPS	239.394	34.894	-30.686	35.288	0.970	0.960
LAMO_GPS	239.743	34.798	-31.031	34.814	1.260	1.160
7HLI_GPS	239.700	34.960	-29.106	34.176	1.530	1.430
SALI_GPS	240.286	34.823	-28.409	29.722	0.890	0.920
0504_GPS	240.162	35.003	-27.296	28.747	0.980	1.000
LGO7_GPS	240.240	35.036	-25.799	25.904	0.890	0.920
MADC_GPS	239.933	35.076	-27.400	30.696	0.940	0.930
YAM2_GPS	240.516	34.852	-25.237	25.103	1.040	0.980
FZHS_GPS	241.107	34.800	-20.907	19.999	1.010	1.030
CUYA_GPS	240.511	34.928	-23.616	23.373	1.200	1.140
PATW_GPS	240.568	34.960	-21.149	21.191	0.900	0.910
J976_GPS	240.821	35.002	-15.354	17.630	1.070	1.100
DBL1_GPS	241.513	35.033	-14.194	14.873	1.110	1.200
WEED_GPS	241.068	35.223	-12.850	11.241	1.160	1.250
JACK_GPS	241.340	35.089	-13.584	14.700	1.220	1.310
RSPG_GPS	241.330	35.138	-13.951	13.440	0.990	1.080
PORT_GPS	241.843	35.087	-10.619	14.400	0.970	1.000
SUMT_GPS	241.591	35.134	-10.199	13.550	1.080	1.210
PAJA_GPS	241.705	35.121	-11.336	14.025	1.210	1.320
0617_GPS	241.375	35.274	-12.295	12.778	0.960	1.020
BLAN_GPS	238.716	35.665	-29.395	37.577	1.000	1.010
0509_GPS	238.516	35.992	-29.539	36.375	1.040	1.030
BLHL_GPS	239.168	35.359	-28.812	36.108	0.820	0.860
TESS_GPS	239.302	35.386	-27.448	34.942	0.920	0.960
POZO_GPS	239.701	35.346	-25.740	30.556	1.140	1.080

BARR_GPS	239.427	35.456	-27.432	33.707	0.870	0.910
ALMO_GPS	239.547	35.552	-25.419	32.082	0.840	0.870
L623_GPS	239.707	35.583	-24.155	29.526	1.420	1.030
GOUD_GPS	240.234	35.414	-13.755	16.684	1.390	1.190
POSO_GPS	239.887	35.520	-20.827	25.478	0.950	0.920
C616_GPS	239.999	35.575	-16.365	19.304	0.960	0.920
H623_GPS	239.654	35.607	-24.847	30.578	1.090	1.010
REDH_GPS	239.739	35.605	-23.409	27.394	0.830	0.860
P807_GPS	240.146	35.603	-12.631	15.518	0.920	0.890
FIBR_GPS	240.606	35.398	-13.590	13.059	0.880	0.880
TAR0_GPS	239.953	35.889	-8.686	16.016	0.940	0.930
0609_GPS	240.712	36.289	-10.836	11.815	1.000	1.020
CHIL_GPS	241.974	34.333	-24.406	22.685	0.840	0.880
CUTT_GPS	242.395	34.362	-17.320	22.048	1.840	1.600
CAJO_GLA	242.549	34.347	-17.718	18.752	0.910	0.940
DVPB_GPS	242.140	34.413	-22.189	20.598	1.110	1.140
0705_GLA	242.235	34.493	-15.780	18.175	1.350	1.050
MILU_GLA	242.708	34.281	-17.730	19.046	0.950	0.980
AVRY_GPS	242.846	34.468	-14.664	14.281	1.010	1.030
PT65_GLA	242.932	34.454	-15.450	15.068	1.190	0.990
VNPS_GPS	241.879	34.502	-22.268	20.548	1.120	1.150
DIP0_GPS	242.569	34.635	-14.071	14.932	1.760	1.810
0817_GPS	242.758	34.537	-14.413	14.774	1.000	1.050
ITER_GPS	242.770	34.630	-12.928	14.004	1.120	1.170
SUNH_GPS	242.703	34.749	-15.284	13.086	1.720	1.720
0805_GPS	242.471	35.007	-8.908	13.775	1.960	1.480
HODG_GPS	242.830	34.834	-11.715	13.762	1.590	1.730
SOAP_GPS	243.019	34.904	-10.521	11.544	0.890	0.910
0809_GPS	244.673	34.806	-1.434	0.632	1.550	1.260
0803_GPS	243.585	35.072	-6.181	2.063	1.090	1.140
NEED_GPS	245.396	34.807	-2.714	1.286	1.110	0.980
0806_GPS	242.386	35.366	-7.998	11.529	1.350	1.150
PAOS_GPS	242.294	35.513	-9.085	11.262	1.380	1.360
MOJ1_GPS	243.109	35.332	-5.007	7.375	0.395	0.396
MOJM_GPS	243.112	35.331	-5.007	7.375	0.395	0.396
INYO_GPS	242.188	35.647	-9.495	11.416	0.930	0.940
0801_GPS	244.577	35.541	-1.892	1.626	1.220	1.530
0915_GPS	243.700	35.867	-3.537	2.558	1.050	1.090
0914_GPS	242.671	35.978	-6.277	5.778	0.940	0.920
0912_GPS	243.584	36.304	-2.603	2.023	0.930	1.030
0607_GPS	239.646	36.501	-7.627	10.478	1.240	1.050
0605_GPS	240.882	36.738	-9.374	11.598	1.100	1.030
INDE_GPS	241.815	36.781	-6.608	8.591	1.220	1.010
MN71_GPS	243.851	36.994	-1.687	0.453	1.040	1.030
RICM_GPS	279.616	25.614	-0.335	0.412	0.342	0.335
MDO1_GPS	255.985	30.680	-0.980	0.153	0.402	0.401
PIE1_GPS	251.881	34.301	-0.892	-0.221	0.405	0.405
H217_GPS	237.058	40.652	-4.948	6.067	1.040	0.810
0221_GPS	237.064	40.370	-6.406	4.830	0.870	0.760
0108_GPS	236.507	40.815	-3.816	7.714	1.000	0.820
01NE_GPS	236.325	40.439	-6.259	13.021	0.990	0.620
01QF_GPS	236.675	40.815	-4.377	6.038	1.050	0.900
01RE_GPS	236.377	40.944	-2.752	8.703	0.690	0.660
01PA_GPS	235.744	40.589	0.515	21.995	0.890	0.850
1468_GPS	235.844	40.448	-5.210	24.761	1.810	0.950
01XD_GPS	236.156	41.874	1.971	8.923	1.120	1.020
BEAR_GPS	235.706	40.498	-3.857	27.120	0.400	0.360
COOS_GPS	235.734	40.257	-18.984	30.838	0.520	0.440
CVR3_GPS	236.752	39.771	-13.257	9.834	1.110	0.890
CW07_GPS	235.905	41.192	4.018	13.181	0.930	0.930

GORD_GPS	236.063	41.986	0.338	7.954	0.770	0.610
GRSH_GPS	236.022	40.306	-10.275	20.077	0.460	0.390
HORS_GPS	236.267	40.875	-0.903	8.744	0.690	0.600
H111_GPS	235.967	41.522	2.999	10.611	1.450	1.320
HP12_GPS	236.211	41.993	2.158	8.529	1.650	1.460
HP14_GPS	236.799	39.795	-9.893	7.393	0.790	0.630
HP15_GPS	236.165	39.777	-23.242	24.349	0.630	0.530
HP16_GPS	236.477	40.460	-6.674	7.036	0.710	0.580
HP19_GPS	235.883	40.975	4.040	14.577	0.500	0.460
HP21_GPS	236.807	41.842	0.291	6.468	0.720	0.600
KNEE_GPS	236.025	40.727	-0.297	14.929	0.560	0.480
KNGP_GPS	235.876	40.157	-35.502	46.832	0.970	0.960
L229_GPS	235.623	40.452	-6.902	32.104	1.400	1.110
LASS_GPS	236.446	40.334	-8.982	8.507	0.560	0.490
P229_GPS	235.628	40.392	-7.750	28.597	0.880	0.720
POIR_GPS	236.969	39.729	-7.697	6.354	0.800	0.640
SIS3_GPS	235.798	40.715	4.230	19.251	0.770	0.670
TAB3_GPS	235.806	40.630	0.066	19.356	1.230	1.080
BARN_GPS	288.840	44.099	0.484	0.154	0.900	0.800
USNO_GPS	282.934	38.919	-0.460	0.237	0.500	0.500
AMC2_GPS	255.475	38.803	-1.536	-0.189	0.600	0.500
PKDB_GPS	239.458	35.945	-23.488	30.760	0.500	0.500
JAST_GPS	239.279	38.340	-11.357	7.015	0.600	0.600
05UH_GPS	239.004	36.410	-10.644	13.498	1.000	0.700
ONIE_GPS	238.940	37.080	-11.897	7.916	0.500	0.500
H104_GPS	238.822	37.464	-11.326	7.652	0.500	0.500
05WG_GPS	238.816	36.571	-29.534	34.854	0.900	0.900
OSI2_GPS	238.799	36.294	-27.701	35.660	1.100	0.900
05WF_GPS	238.730	36.696	-17.318	19.780	0.900	0.900
PACH_GPS	238.712	37.008	-14.048	12.685	0.600	0.600
TURK_GPS	238.701	36.900	-11.875	9.589	0.600	0.600
0512_GPS	238.677	36.420	-26.289	36.596	0.800	0.700
05YF_GPS	238.675	36.793	-12.203	12.496	0.600	0.600
OSR1_GPS	238.625	37.508	-13.046	8.312	0.500	0.600
05VE_GPS	238.571	36.493	-29.288	34.828	0.700	0.600
RAIL_BVU	238.538	36.909	-17.296	20.538	0.700	0.700
MOCH_GPS	238.444	37.477	-13.980	9.166	0.500	0.500
MEDA_GPS	238.434	37.755	-12.518	8.169	0.700	0.800
77RT_GPS	238.432	36.873	-24.621	27.570	0.600	0.600
GAMB_GPS	238.423	36.055	-25.412	33.273	1.800	1.800
PGN4_GPS	238.415	36.887	-23.120	28.375	0.600	0.600
GILR_GPS	238.384	36.980	-20.103	22.584	0.500	0.500
TORO_GPS	238.372	36.540	-26.406	32.588	1.800	1.800
BORO_GPS	238.341	36.722	-30.169	34.697	1.600	0.800
SALI_GPS	238.334	36.698	-28.375	33.499	1.400	0.800
05YC_GPS	238.332	36.791	-28.955	33.099	0.600	0.500
04AL_GPS	238.327	36.914	-26.527	31.601	0.700	0.600
B112_GPS	238.325	37.694	-10.850	8.502	1.000	1.100
USG7_GPS	238.297	37.622	-12.169	11.410	0.800	0.900
PERR_GPS	238.294	37.184	-19.370	21.111	1.500	1.600
METC_GPS	238.286	37.229	-20.961	21.613	0.600	0.500
MINN_GPS	238.278	37.954	-14.098	6.016	1.200	1.300
COY__GPS	238.262	37.219	-21.367	21.921	0.500	0.500
0513_GPS	238.250	36.763	-28.173	33.425	0.600	0.500
05ZB_GPS	238.229	36.846	-28.557	32.430	0.700	0.600
FORD_GPS	238.228	36.589	-26.816	37.331	1.200	1.100
CAAA_GPS	238.217	37.186	-22.082	22.634	0.500	0.500
MAZZ_GPS	238.212	37.137	-22.293	24.536	0.500	0.600
JOBE_GPS	238.208	37.922	-11.915	9.237	0.700	0.700
MULL_GPS	238.201	36.749	-31.883	35.539	0.700	0.700

NDDD_GPS	238.191	37.069	-22.612	28.241	0.500	0.500
SARE_GPS	238.190	37.594	-13.493	11.842	0.600	0.600
FEIF_GPS	238.186	36.235	-27.805	36.243	1.800	1.700
CORR_GPS	238.167	37.012	-25.229	31.449	0.500	0.500
LP4_GPS	238.161	37.050	-25.121	29.551	0.700	0.700
LOMA_GPS	238.156	37.111	-21.707	26.352	0.600	0.600
MOLR_GPS	238.149	36.288	-27.798	34.755	1.700	1.700
SHER_GPS	238.130	37.541	-14.414	18.160	0.600	0.600
ALLI_GPS	238.129	37.499	-15.423	16.560	0.600	0.600
LEON_GPS	238.126	36.946	-27.950	32.961	0.600	0.600
MILS_GPS	238.112	37.540	-15.817	16.965	0.600	0.600
LP2_GPS	238.091	37.104	-24.219	28.672	0.600	0.600
1582_GPS	238.081	37.507	-16.329	16.874	1.000	1.100
PORT_GPS	238.080	37.004	-26.244	32.674	0.500	0.500
GREG_GPS	238.076	36.982	-28.749	32.476	0.500	0.500
SOBR_GPS	238.071	36.449	-29.472	36.677	1.800	1.700
CAIS_GPS	238.065	37.513	-16.630	17.679	1.000	0.800
FIRE_GPS	238.062	37.047	-26.537	31.380	0.600	0.600
SUNS_GPS	238.060	37.643	-16.601	16.481	0.600	0.600
BURD_GPS	238.053	37.110	-25.423	28.183	0.500	0.400
3814_GPS	238.048	37.806	-13.866	12.785	1.000	1.000
WINE_1PS	238.048	37.532	-14.528	16.485	1.400	1.400
BRUC_GPS	238.039	37.073	-25.034	31.987	0.500	0.500
VASO_GPS	238.034	37.247	-20.895	24.689	0.800	0.800
ODAM_GPS	238.027	37.180	-22.312	26.290	1.100	1.100
Z137_GPS	238.026	37.480	-19.843	23.090	0.600	0.700
SNJO_GPS	238.023	37.206	-21.606	26.391	0.500	0.500
TRAL_GPS	238.006	37.059	-26.242	33.497	0.500	0.500
CAML_GPS	238.005	38.417	-8.135	9.097	0.600	0.600
WED2_GPS	238.005	37.738	-14.988	16.397	0.600	0.600
BRIG_BVU	238.004	37.185	-22.214	27.597	0.400	0.400
AWIS_GPS	237.998	37.593	-16.122	16.099	1.200	1.100
GARS_GPS	237.989	37.645	-17.511	17.202	0.600	0.600
ELSE_GPS	237.977	37.217	-22.210	27.705	0.500	0.500
BEND_GPS	237.965	37.426	-21.564	23.309	1.000	1.000
CLIF_GPS	237.948	36.950	-29.576	33.914	0.500	0.500
CRO3_GPS	237.948	36.993	-26.366	33.914	1.200	1.200
SCAZ_GPS	237.944	36.978	-29.770	33.115	1.200	1.200
LOMP_GPS	237.941	37.099	-23.643	33.716	1.100	1.200
ROC2_GPS	237.939	37.815	-15.581	15.317	0.500	0.500
CAS2_GPS	237.931	37.732	-16.301	16.620	0.600	0.600
RDHL_GPS	237.905	37.551	-21.046	22.627	0.500	0.600
COYS_GPS	237.903	37.563	-21.043	22.627	0.500	0.600
VAC3_GPS	237.897	38.398	-11.357	8.329	0.500	0.500
GORR_GPS	237.885	38.331	-11.974	9.233	0.700	0.700
FTHL_GPS	237.877	37.363	-22.193	26.236	0.800	0.900
HILL_GPS	237.872	37.937	-14.064	15.837	0.600	0.600
BM1R_GPS	237.847	37.290	-23.714	29.444	0.700	0.700
PAWT_GPS	237.833	37.324	-23.908	29.148	0.600	0.600
GAME_GPS	237.825	38.351	-12.679	10.951	0.500	0.500
SLBB_GPS	237.816	37.691	-18.928	22.753	0.700	0.700
EAUN_GPS	237.805	37.147	-28.153	33.856	0.500	0.500
MADI_GPS	237.797	38.313	-13.791	13.959	0.500	0.500
TRUE_GPS	237.784	37.312	-24.918	30.963	0.600	0.700
BAPK_GPS	237.778	37.884	-16.190	18.065	0.500	0.600
CROC_GPS	237.771	38.043	-15.755	16.167	1.100	1.100
04GG_GPS	237.753	37.879	-16.595	17.272	0.800	0.800
STAD_GPS	237.749	37.870	-18.198	22.873	0.900	0.900
STAC_GPS	237.748	37.871	-17.898	22.273	0.900	0.900
0410_GPS	237.745	38.030	-16.563	17.574	1.000	1.200

HAGG_GPS	237.741	38.324	-13.097	15.075	0.500	0.500
UCBK_GPS	237.735	37.872	-19.300	22.777	0.500	0.600
FLES_GPS	237.726	37.900	-18.394	18.980	1.900	1.300
HAUL_GPS	237.716	37.274	-24.937	33.883	0.900	1.000
MA_A_GPS	237.695	37.937	-19.691	22.989	1.000	0.800
DEAL_GPS	237.662	38.258	-14.325	16.699	0.700	0.800
RMD1_GPS	237.660	37.934	-19.398	23.100	1.400	1.700
SPA1_GPS	237.644	37.990	-15.887	18.804	0.900	0.900
HALM_GPS	237.641	37.228	-29.659	34.405	0.600	0.700
HENN_GPS	237.638	38.283	-14.022	18.606	1.700	1.900
NAVY_GPS	237.634	37.810	-20.629	25.007	0.500	0.600
PEEE_GPS	237.618	37.592	-21.880	28.812	0.700	0.700
PIGE_GPS	237.605	37.183	-28.575	35.616	0.600	0.600
HIL4_GPS	237.598	37.942	-20.405	24.417	1.100	1.100
SNPR_GPS	237.584	37.959	-20.103	23.022	0.800	0.900
PRSD_GPS	237.545	37.805	-22.544	26.333	0.800	0.800
AIRR_GPS	237.544	38.223	-16.351	18.833	0.500	0.500
PALO_GPS	237.544	37.527	-26.207	31.833	0.600	0.600
SWEE_GPS	237.542	37.609	-24.888	30.834	0.600	0.600
WHAL_GPS	237.496	37.509	-26.518	33.248	0.700	0.700
ADOO_GPS	237.473	38.236	-17.059	21.855	0.500	0.500
COR_GPS	237.405	38.186	-19.181	23.675	0.500	0.500
T3R2_GPS	237.401	37.923	-22.740	26.376	0.600	0.600
NICC_GPS	237.263	38.093	-21.224	28.116	0.500	0.500
1395_GPS	237.187	38.087	-23.837	29.339	0.600	0.600
PRH2_GPS	237.131	38.080	-24.647	32.256	0.500	0.500
PRNC_GPS	237.063	38.104	-28.053	33.576	1.600	1.500
THTI_GPS	210.394	-17.577	-66.958	47.557	0.700	0.600