



GEODETTIC CONTROL DATA

**NAD 83 COORDINATES for
Geodetic Control Diagram Area**

HAWAII

LATITUDE N18°30' to N20°30'

LONGITUDE W154°30' to W156°30'

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Charting and Geodetic Services**

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NOAA - NOS - C&GS
NATIONAL GEODETIC SURVEY
February 1987

Geodetic Control Diagram

HAWAII

NAD 83 GEODETIC AND STATE PLANE COORDINATES

QIDQSN	STATION NAME	LATITUDE (NORTH)	LONGITUDE (WEST)	NORTHING METERS*	EASTING METERS*	ZONE	CONVERGENCE	SCALE FACTOR	ELEV. GEOID (M)	HT (M)
191551210059	11 A HIGS 1978	19 39 41.74673	155 03 32.34692	91741.451	546247.543	HI 1	0 08 54.20	0.9999931	78.	17.97
191551210060	11 B HIGS 1978	19 39 56.65578	155 03 42.57160	92199.131	545948.519	HI 1	0 08 50.86	0.9999928	76.	17.97
191551210061	11 C HIGS 1978	19 40 16.99978	155 03 52.41960	92823.967	545660.055	HI 1	0 08 47.70	0.9999924	66.	17.96
191552430007	136 USGS	19 16 0.16169	155 22 20.70852	47975.124	513411.271	HI 1	0 02 31.55	0.9999689	369.	21.39
191552420005	3314 USGS 1949	19 21 2.73937	155 16 35.22734	57288.979	523487.319	HI 1	0 04 26.66	0.9999735	1011.	21.11
191552430005	4089 USGS 1949	19 21 55.00415	155 25 15.22791	58882.735	508310.334	HI 1	0 01 34.43	0.9999675	1246.90	23.54
191551210069	5.79	19 43 33.38771	155 04 16.13435	98861.103	544954.052	HI 1	0 08 41.10	0.9999916	1.72	17.67
191551430019	51209 1977	19 49 25.49001	155 28 8.68443	109631.545	503239.270	HI 1	0 00 37.75	0.9999668	4199.	23.62
191543440015	66YY RESET USGS	19 25 25.80926	154 56 40.44965	65456.715	558331.520	HI 1	0 11 4.98	1.0000087	235.	17.74
191551330004	77-506 USGS 1977	19 31 48.36542	155 27 49.94006	77126.067	503791.631	HI 1	0 00 43.48	0.9999668	3077.	24.87
191552410016	AA 1920	19 22 48.42691	155 19 36.72717	60532.595	518186.970	HI 1	0 03 26.82	0.9999708	1020.73	22.40
191551420002	AAHUWELA HGS 1891	19 47 1.01518	155 21 54.27704	105194.356	514138.035	HI 1	0 02 44.40	0.9999691	2360.	22.68
191552410003	AHUA KAMOKUKOLAU 1920	19 22 44.98960	155 15 57.96160	60434.428	524570.670	HI 1	0 04 39.40	0.9999741	1084.11	21.27
201552330018	AHUALOA	20 05 4.72296	155 29 11.82791	138512.726	501399.500	HI 1	0 00 16.54	0.9999667	359 SC	22.50
191553330004	AHULOA	19 05 8.49091	155 54 27.09393	27982.913	457113.915	HI 1	-0 07 59.72	0.9999894		
191554120001	AHUMOA 1882	19 48 33.03116	155 36 40.71266	108022.003	488338.241	HI 1	-0 02 15.80	0.9999683	2147.	23.85
191554430003	AKAHIPUU HIGS 1928	19 45 6.89284	155 58 11.30629	101747.756	450760.685	HI 1	-0 09 31.59	0.9999666	681 SC	24.50
191553230001	AKIHI 1890	19 05 28.75398	155 40 42.12163	28565.627	481230.238	HI 1	-0 03 30.02	0.9999710	913.	19.33
201553240002	AKOKOA 1913	20 13 10.35553	155 43 53.21136	153463.092	475814.195	HI 1	-0 04 47.97	0.9999739	29 SC	20.55
191551120016	ALALA HGS 1877	19 50 7.82034	155 06 32.69080	110980.291	540949.765	HI 1	0 07 57.54	0.9999874	232.	17.43
201554340004	ALAU FLAG	20 43 35.24417	155 58 47.88793	43673.318	571524.423	HI 2	0 14 34.93	1.0000299		
201554340003	ALAU FLAG 2 1950	20 43 41.42317	155 58 40.20806	43864.293	571745.820	HI 2	0 14 37.72	1.0000303	45.0	14.16
191551120001	ALIA LIGHTHOUSE PEPEEKEO POINT	19 50 50.15265	155 04 56.78353	112288.701	543737.284	HI 1	0 08 30.37	0.9999903		
191551120017	ALIA POINT LIGHT PEPEEKEO PT	19 50 50.06094	155 04 57.44227	112285.834	543718.124	HI 1	0 08 30.15	0.9999903		
191552140002	ALII USGS 1977	19 26 39.34219	155 11 52.99848	67651.507	531706.116	HI 1	0 06 1.85	0.9999791	969.	20.50
191553210005	ALILI	19 13 2.37838	155 30 51.08925	42503.852	498507.753	HI 1	-0 00 16.82	0.9999667	790 SC	
181554140008	AN/GKR 5 ANTENNA	18 56 21.43004	155 40 56.58366	11737.523	480790.046	HI 1	-0 03 33.11	0.9999712	112.93	18.44
181554140010	AN/GKR 6 ANTENNA	18 56 23.46345	155 40 57.89050	11800.083	480751.876	HI 1	-0 03 33.54	0.9999712		18.45
181554140009	AN/GKR 6A ANTENNA	18 56 19.39711	155 40 57.86931	11675.056	480752.366	HI 1	-0 03 33.52	0.9999712		18.43
191554440002	ANAEHOOMALU 1928	19 56 0.25703	155 53 3.76515	121816.253	459760.055	HI 1	-0 07 51.77	0.9999867	17.	24.22
191554420005	ANAHULU 1882	19 51 8.18533	155 51 21.02927	112828.394	462728.670	HI 1	-0 07 15.04	0.9999838	465.	24.25
191544340001	ANAPUKA	19 43 21.67521	154 59 33.80343	98523.610	553176.152	HI 1	0 10 16.30	1.0000016		
181554140024	ANTENNA TOWER SW LEG	18 56 32.55339	155 41 3.84729	12079.750	480577.887	HI 1	-0 03 35.50	0.9999713		
201553220005	ANUENUE 1913	20 05 27.15991	155 31 58.96872	139202.959	496543.846	HI 1	-0 00 40.87	0.9999668	491.	22.44
191551210020	AP STA A	19 43 18.40647	155 03 41.90484	98402.977	545951.946	HI 1	0 08 52.54	0.9999928	8.	17.60
191551440004	APAKUIA 1877	19 55 57.08408	155 25 48.32211	121674.189	507318.803	HI 1	0 01 25.80	0.9999673	1785 SC	22.92
191552130003	APUA PT BM USGS	19 15 35.48626	155 11 33.50857	47240.073	532310.896	HI 1	0 06 4.98	0.9999796	7.	18.30
191551210043	AT	19 44 45.18573	155 05 24.15338	101063.989	542968.122	HI 1	0 08 18.62	0.9999895		
201552330019	AU 1877	20 05 54.59850	155 29 24.85143	140046.396	501021.050	HI 1	0 00 12.08	0.9999667	199 SC	22.29
191553430015	AUAV 1972	19 18 2.94933	155 53 20.17415	51791.496	459123.282	HI 1	-0 07 42.80	0.9999873	2 SC	22.57
191554340007	AUHAUKEAE	19 38 7.69569	155 58 52.89602	88860.859	449513.358	HI 1	-0 09 42.33	0.9999982	73.0	24.61
191551210082	AWA HIGS 1977	19 39 53.57950	155 03 12.25757	92106.831	546831.791	HI 1	0 09 1.04	0.9999938	64.	17.90
191551210009	BAN	19 43 56.06914	155 03 1.17148	99564.204	547134.996	HI 1	0 09 6.57	0.9999941		
191553310010	BARN	19 09 44.97092	155 52 2.35283	36474.678	461362.890	HI 1	-0 07 14.07	0.9999851		
191544330005	BARN HVO159 USGS	19 30 3.08871	154 53 23.30000	74002.428	564052.739	HI 1	0 12 13.33	1.0000174	142.	17.15
191551410001	BARNARD 1913	19 59 22.66876	155 14 52.99099	128014.219	526366.427	HI 1	0 05 10.06	0.9999753	163 SC	19.59

* For conversion of meters to U.S. Survey Feet multiply the meters by 39.37/12.0 which is 3.2808333333 to 12 significant figures

* For conversion of meters to International Feet multiply the meters by 100.0/30.48 which is 3.28083989501 to 12 significant figures

NAD 83 GEODETIC AND STATE PLANE COORDINATES

QIDQSN	STATION NAME	LATITUDE (NORTH)	LONGITUDE (WEST)	NORTHING METERS*	EASTING METERS*	ZONE	CONVERGENCE	SCALE FACTOR	ELEV. GEOID (M)	HT (M)
191543410006	BEACHLOTS HVO168. USGS	19 29 37.07270	154 49 3.72458	73230.933	571625.045	HI 1	0 13 39.70	1.0000301	4.	15.50
191552410006	BEGGAR	19 24 26.28885	155 16 38.68840	63547.634	523378.240	HI 1	0 04 26.26	0.9999734	1110 SC	21.78
191551140024	BELFRY	19 59 30.47171	155 14 30.37290	128255.164	527023.560	HI 1	0 05 17.83	0.9999757		
191552430006	BENCH MARK 1855 USGS 1977	19 15 54.35417	155 26 23.34884	47792.726	506326.253	HI 1	0 01 11.48	0.9999672	566.52	22.06
191552130001	BENCH MARK 3440 USGS 1949	19 22 17.26852	155 12 19.41598	59591.810	530949.322	HI 1	0 05 51.79	0.9999785	1049.	20.02
201553340015	BENCH MARK USGS NR KEHENA 1948	20 08 9.55448	155 53 11.73736	144243.284	459580.061	HI 1	-0 07 59.11	0.9999869	77.	22.91
191551210041	BILL	19 43 57.16690	155 05 19.22925	99587.763	543115.067	HI 1	0 08 19.96	0.9999896		
191553440003	BISHOP 1948	19 27 57.84996	155 53 5.26130	70082.886	459599.427	HI 1	-0 07 41.64	0.9999868	411.	24.64
191552120006	BM HVO 80 USGS 1978	19 17 46.47071	155 05 44.54557	51288.498	542491.774	HI 1	0 08 0.97	0.9999890	19.29	17.38
181554140021	BM NORTH PAD	18 56 22.83085	155 40 56.58271	11780.593	480790.118	HI 1	-0 03 33.11	0.9999712	97 SC	18.44
191543410005	BM YY 153 USGS 1977	19 29 26.15408	154 52 6.50456	72874.793	566296.236	HI 1	0 12 38.58	1.0000210	116.77	16.72
191553440021	BOUNDARY MONUMENT 9 1948	19 27 54.56878	155 55 8.28739	69990.380	456011.128	HI 1	-0 08 22.62	0.9999906	13 SC	24.62
191554340005	BRIGHT	19 37 50.22017	155 57 44.27001	88317.959	451511.304	HI 1	-0 09 19.13	0.9999957		
201552320002	C	20 00 41.21882	155 16 18.40263	130426.105	523880.240	HI 1	0 04 41.16	0.9999737	172 SC	20.08
191553330005	CAIRN	19 07 1.10639	155 54 51.28781	31447.243	456414.863	HI 1	-0 08 8.40	0.9999901		
201553310011	CAIRN	20 08 10.70819	155 48 15.92114	144260.926	468171.526	HI 1	-0 06 17.28	0.9999792		
191551320002	CAMP INC CABLE TV MAST	19 31 13.01967	155 17 56.94290	76051.184	521080.551	HI 1	0 04 1.60	0.9999722		
191544320001	CAPE KUMUKAHI LIGHTHOUSE	19 30 58.74057	154 48 39.08874	75745.106	572333.368	HI 1	0 13 48.85	1.0000313		
191553440025	CAPTAIN COOKS MONUMENT	19 28 52.60487	155 56 0.29286	71778.694	454498.877	HI 1	-0 08 40.36	0.9999922		
191553410002	CAROL 1972	19 23 34.42170	155 52 9.17943	61979.220	461217.686	HI 1	-0 07 21.35	0.9999853	428.	24.02
201553340003	CARL 1910	20 11 30.45191	155 53 41.51759	150423.171	458729.826	HI 1	-0 08 10.66	0.9999877	79.	21.93
201553310029	CATHOLIC CH E CROSS ON BELFRY	20 14 16.86777	155 50 3.41201	155526.770	465072.348	HI 1	-0 06 56.29	0.9999817		
201553310030	CATHOLIC CH W CROSS ON BELFRY	20 14 16.85864	155 50 3.51301	155526.495	465069.416	HI 1	-0 06 56.32	0.9999817		
191551210039	CATHOLIC CHURCH NORTHWEST TWR	19 43 31.99589	155 05 16.37762	98813.959	543199.977	HI 1	0 08 20.75	0.9999897		
191551140009	CHURCH SPIRE	19 56 8.39760	155 10 37.01377	122053.065	533819.147	HI 1	0 06 36.54	0.9999808		
191551210042	CHURCH SQUARE TOWER	19 43 20.87697	155 05 20.41181	98471.770	543083.336	HI 1	0 08 19.32	0.9999896		
191551120021	CHURCH WHITE SPIRE AND CROSS	19 48 1.17821	155 05 34.48921	107090.030	542652.712	HI 1	0 08 16.44	0.9999891		
191551210070	COCOANUT POINT LIGHT	19 43 36.83032	155 05 10.24134	98963.052	543378.293	HI 1	0 08 22.86	0.9999899	11.	17.83
191551140003	COCONUT	19 54 11.85693	155 08 4.16884	118478.502	538271.645	HI 1	0 07 27.96	0.9999848		
191553440015	COFFEE	19 28 5.11741	155 54 23.99516	70311.638	457303.685	HI 1	-0 08 7.93	0.9999892		
191552410015	CONE PEAK 1920	19 23 29.54359	155 18 24.73256	61799.087	520286.348	HI 1	0 03 50.84	0.9999718	1113.33	22.18
191551140011	COOK HIGS 1949	19 54 50.77016	155 11 10.21603	119664.171	532858.087	HI 1	0 06 24.82	0.9999800	439.	18.43
191551210058	CRACK HIGS 1977	19 39 17.77639	155 05 5.11493	90997.578	543547.016	HI 1	0 08 22.82	0.9999901	171.	18.28
191552410012	CRACKS 1920	19 23 55.94390	155 17 45.26472	62612.176	521436.975	HI 1	0 04 4.04	0.9999723	1135.03	22.05
191551210035	CUPOLA	19 43 21.10376	155 04 53.47847	98480.659	543867.587	HI 1	0 08 28.41	0.9999904		
191551210057	DELUZ HIGS 1977	19 39 1.05268	155 07 17.65774	90474.337	539687.051	HI 1	0 07 38.13	0.9999861	315.	18.81
191551120006	DER	19 46 44.27025	155 05 21.87453	104725.994	543025.597	HI 1	0 08 20.19	0.9999895		
191551330002	DISK NR PUU ULAULA 2 1949	19 31 48.19792	155 27 49.73194	77120.918	503797.699	HI 1	0 00 43.55	0.9999668	3077.	24.87
191551210029	DOCK	19 43 31.11994	155 04 16.43196	98791.347	544945.562	HI 1	0 08 40.98	0.9999916		
191554340011	DRILL HOLE NR MOANUIAHEA 1948	19 44 19.67138	155 57 12.19242	100291.009	452477.824	HI 1	-0 09 11.26	0.9999946	983 SC	24.51
191551120002	EAST OF 2 STACKS	19 50 33.11145	155 05 8.36584	111763.850	543401.569	HI 1	0 08 26.32	0.9999899		
191554110003	EAST TANK 1948	19 58 53.53974	155 33 53.40478	127099.993	493214.676	HI 1	-0 01 19.76	0.9999672	1237.	23.26
191554140001	FENCE TANK	19 59 0.32734	155 37 27.69285	127312.227	486985.244	HI 1	-0 02 33.00	0.9999688		
191551210040	FOREIGN CHURCH	19 43 23.69140	155 05 17.05065	98558.550	543180.999	HI 1	0 08 20.47	0.9999897		
191553420005	FOREST 1948	19 14 52.85119	155 51 15.14784	45938.505	462761.413	HI 1	-0 07 0.37	0.9999838	851.	21.62

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NAD 83 GEODETIC AND STATE PLANE COORDINATES

QIDQSN	STATION NAME	LATITUDE (NORTH)	LONGITUDE (WEST)	NORTHING METERS*	EASTING METERS*	ZONE	CONVERGENCE	SCALE FACTOR	ELEV. GEOID (M)	HT (M)
191551120005	GABLE	19 49 34.29919	155 05 18.39071	109954.647	543114.283	HI 1	0 08 22.52	0.9999896		
191551210008	GENERAL LYMAN FIELD AP B 1962	19 43 18.40175	155 02 33.87862	98408.056	547932.808	HI 1	0 09 15.50	0.9999951	10.	17.45
191551210016	GENERAL LYMAN FIELD ARP 1962	19 43 11.42019	155 03 17.51708	98189.997	546662.658	HI 1	0 09 0.72	0.9999936	10.	17.55
191551210019	GENERAL LYMAN FLD BALLOON SHED	19 43 4.93032	155 03 37.92672	97988.886	546068.857	HI 1	0 08 53.79	0.9999929		
191551210018	GENERAL LYMAN FLD CONT TWR BCN	19 43 5.84524	155 03 35.11143	98017.232	546150.765	HI 1	0 08 54.74	0.9999930		
191552130007	GOAT 2 USGS	19 19 50.09216	155 13 34.56548	55062.791	528763.505	HI 1	0 05 26.20	0.9999769	839.	19.90
191552130006	GOAT USGS	19 19 35.31395	155 13 41.10084	54608.088	528573.460	HI 1	0 05 23.97	0.9999768	809.	19.88
191551120020	GREEN LIGHT	19 45 43.85413	155 05 23.20228	102868.105	542991.447	HI 1	0 08 19.34	0.9999895		
201553230003	GREEN TANK	20 02 20.41226	155 38 52.40471	133466.895	484528.040	HI 1	-0 03 2.43	0.9999696		
191551210017	GROVE	19 43 38.40356	155 03 34.30755	99018.458	546171.576	HI 1	0 08 55.25	0.9999930	35 SC	17.77
191551210045	HAAHEO 1878	19 44 38.40952	155 05 25.12513	100855.553	542940.333	HI 1	0 08 18.25	0.9999894	36 SC	17.79
191551210046	HAAHEO CHURCH	19 44 40.87035	155 05 33.51314	100930.635	542695.935	HI 1	0 08 15.43	0.9999892	713.	19.35
191553220010	HAAD 1949	19 05 9.09841	155 37 3.56896	27955.877	487618.322	HI 1	-0 02 18.50	0.9999686		
191551210034	HACK	19 43 23.56344	155 04 45.44004	98556.872	544101.469	HI 1	0 08 31.14	0.9999907		
191551140008	HAIKU 1877	19 55 52.24577	155 10 25.72364	121557.025	534148.425	HI 1	0 06 40.30	0.9999811	209.	18.12
191543430003	HAKUMA	19 20 49.18083	154 58 46.63211	56939.158	554676.046	HI 1	0 10 20.64	1.0000036	21.	17.33
191543430002	HAKUMA 1914	19 20 45.23599	154 58 44.85172	56818.015	554728.375	HI 1	0 10 21.20	1.0000037	18.81	17.31
191551210083	HALAI 2 HGS 1977	19 42 59.89051	155 05 47.60279	97824.541	542293.099	HI 1	0 08 10.00	0.9999888	110.	18.03
191551210053	HALAI HGS 1877	19 42 59.89064	155 05 47.60355	97824.545	542293.077	HI 1	0 08 10.00	0.9999888	110.	18.03
191553420006	HALEILI	19 20 3.50863	155 51 45.46418	55492.497	461896.039	HI 1	-0 07 12.22	0.9999846	527.0	23.17
191544320004	HALEKAMAHINA HVO155 USGS	19 29 52.92016	154 51 40.68464	73700.633	567046.120	HI 1	0 12 47.48	1.0000222	153.	16.56
191553240002	HALEPOHAHA	19 08 32.87075	155 44 3.40771	34233.663	475354.033	HI 1	-0 04 36.57	0.9999742		
191544330008	HALONA USGS 1978	19 33 19.13807	154 56 28.20656	80012.523	558641.324	HI 1	0 11 13.40	1.0000092	100.	17.86
191543440006	HANAE	19 22 20.48502	154 57 2.88103	59756.042	557695.271	HI 1	0 10 55.84	1.0000078	17.0	17.40
191553330003	HANAKEAUMOE 1890	19 06 10.27229	155 54 24.35130	29882.362	457198.501	HI 1	-0 07 59.24	0.9999893	40.	19.13
191553340010	HANAMALO 1 1890	19 09 22.70481	155 54 54.81489	35801.337	456322.121	HI 1	-0 08 10.53	0.9999902	13 SC	19.90
191553340009	HANAMALO 2 1890	19 09 22.42303	155 54 54.76737	35792.669	456323.489	HI 1	-0 08 10.51	0.9999902	13.	19.90
191554440001	HAND 1928	19 55 53.14054	155 52 46.43055	121596.272	460263.657	HI 1	-0 07 45.82	0.9999862	28.	24.22
191551140016	HAOLE	19 57 39.31153	155 12 9.94942	124843.708	531111.650	HI 1	0 06 5.30	0.9999786	132 SC	18.65
191553310001	HAPAIMANU	19 10 25.52366	155 45 21.06014	37700.646	473089.947	HI 1	-0 05 2.51	0.9999756		
191554140005	HAWAII USGS 1948	19 59 7.53272	155 40 36.75607	127538.732	481489.262	HI 1	-0 03 37.63	0.9999709	794.	23.54
201553230005	HAWAII WEST BASE 1872	20 01 36.92382	155 39 45.95497	132131.055	482970.537	HI 1	-0 03 20.67	0.9999702	841 SC	23.41
191551320003	HAWAIIAN TELEPHONE CO TOWER	19 31 14.20184	155 17 57.64981	76087.510	521059.899	HI 1	0 04 1.37	0.9999721	1684 SC	22.64
201553420008	HAWI UPOLO AIRPORT BCN	20 15 46.42890	155 51 43.02843	158286.987	462187.090	HI 1	-0 07 31.28	0.9999843		
191543440008	HEIHEIAHULU	19 25 26.03253	154 59 26.52491	65448.609	553486.595	HI 1	0 10 9.74	1.0000020	522.	18.03
191543440007	HEIHEIAHULU 1914	19 25 27.05392	154 59 24.64684	65480.178	553541.290	HI 1	0 10 10.38	1.0000021	522.	18.02
191551210002	HI 1968	19 44 9.21567	155 00 14.08384	99982.019	551998.950	HI 1	0 10 3.09	1.0000001	3 SC	17.19
191552420011	HILINA USGS	19 17 40.24915	155 18 26.30297	51058.911	520252.491	HI 1	0 03 49.21	0.9999717	686.	20.85
191553210004	HILL-PUEHU 1914	19 08 33.13427	155 30 48.83120	34225.297	498573.064	HI 1	-0 00 16.01	0.9999667	78.	20.17
191551210013	HILO BULK SUGAR BINS W LIGHT	19 43 46.68910	155 03 9.65782	99275.115	546888.657	HI 1	0 09 3.63	0.9999938		
191551210063	HILO COMTEC MAST	19 42 40.12867	155 04 32.88004	97222.170	544470.537	HI 1	0 08 35.07	0.9999911		
191551210014	HILO HARBOR COMMISSIONERS TANK	19 43 43.58276	155 03 16.49602	99179.072	546689.796	HI 1	0 09 1.30	0.9999936		
191551210073	HILO HAWAIIAN TELEPHONE CO TWR	19 43 58.63180	155 00 37.09378	99654.618	551329.916	HI 1	0 09 55.23	0.9999992		
191551210036	HILO HONGWANJI CHURCH STEEPLE	19 43 11.25555	155 05 0.17757	98177.349	543673.260	HI 1	0 08 26.08	0.9999902		
191551210074	HILO KHLO RADIO TOWER	19 43 59.54215	155 01 57.85587	99675.980	548978.276	HI 1	0 09 27.97	0.9999963		

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* For conversion of meters to International Feet multiply the meters by 100.0/30.48 which is 3.28083989501 to 12 significant figures

NAD 83 GEODETIC AND STATE PLANE COORDINATES

QIDQSN	STATION NAME	LATITUDE (NORTH)	LONGITUDE (WEST)	NORTHING METERS*	EASTING METERS*	ZONE	CONVERGENCE	SCALE FACTOR	ELEV.GEIOD (M)	HT(M)
191551210022	HILO KHVH TV MAST	19 43 46.04151	155 03 53.57615	99251.878	545609.910	HI 1	0 08 48.80	0.9999924		
191551210054	HILO LATITUDE STATION 1887	19 42 59.82917	155 05 47.68324	97822.649	542290.761	HI 1	0 08 9.97	0.9999888	110 SC	18.03
191551210012	HILO LYMAN FIELD AIRPORT BCN	19 43 1.32533	155 03 9.23027	97880.215	546904.783	HI 1	0 09 3.44	0.9999938		
191551210015	HILO LYMAN FIELD CONTROL TWR	19 43 9.51021	155 03 17.03869	98131.302	546676.742	HI 1	0 09 0.87	0.9999936		
191551210032	HILO MIDDLE BASE	19 43 18.97206	155 04 32.78317	98416.605	544470.375	HI 1	0 08 35.38	0.9999911	3 SC	17.74
191551210023	HILO NORTH BASE 1949	19 43 3.88638	155 03 53.69309	97955.603	545609.827	HI 1	0 08 48.46	0.9999924	5.	17.66
191551210004	HILO RADIO RANGE	19 43 44.38182	155 01 22.21978	99212.687	550017.206	HI 1	0 09 39.89	0.9999976		
191551240002	HILO RADIO STATION KHBC MAST	19 42 51.14748	155 08 3.14719	97546.757	538346.648	HI 1	0 07 24.22	0.9999848		
191551210024	HILO RADIO STATION KIMO TOWER	19 43 47.18027	155 03 57.10546	99286.631	545507.055	HI 1	0 08 47.62	0.9999923		
191551240003	HILO RADIO STATION KIPA MAST	19 44 23.94228	155 09 15.66596	100395.743	536229.076	HI 1	0 07 0.28	0.9999829		
191551210021	HILO RAILROAD NORTH BASE 1949	19 43 0.04274	155 03 52.38603	97837.509	545648.192	HI 1	0 08 48.87	0.9999924	8.	17.66
191551210050	HILO RAILROAD S B OFFSET 1949	19 41 39.37740	155 03 23.13320	95359.265	546506.509	HI 1	0 08 58.16	0.9999934	32.	17.74
191551210049	HILO RAILROAD SOUTH BASE 1949	19 41 39.41992	155 03 23.01641	95360.581	546509.907	HI 1	0 08 58.20	0.9999934	33.	17.74
191551210010	HILO SOUTH BASE 1949	19 40 41.30226	155 03 2.14439	93575.070	547122.507	HI 1	0 09 4.80	0.9999941	51.	17.80
191551210066	HILO ST JOSEPHS CATH CH CROSS	19 43 20.81972	155 05 24.47626	98469.723	542964.988	HI 1	0 08 17.94	0.9999895		
191551210052	HILO SUGAR CO STACK	19 44 16.73735	155 05 23.86919	100189.224	542978.511	HI 1	0 08 18.53	0.9999895		
191551210064	HILO VOR ITO	19 43 16.69719	155 00 39.65732	98364.909	551258.988	HI 1	0 09 54.03	0.9999991		
191551210031	HILO WAIAKEA SUGAR CO STACK	19 42 45.20746	155 04 32.20333	97378.391	544489.853	HI 1	0 08 35.34	0.9999911		
191551210038	HILO WEST BASE	19 43 28.10663	155 05 7.18313	98695.017	543467.997	HI 1	0 08 23.83	0.9999900	5 SC	17.84
201553310016	HIND STACK	20 14 11.37516	155 49 45.33299	155356.813	465596.740	HI 1	-0 06 50.01	0.9999813		
201553420005	HOEA MILL CHIMNEY WEST STACK	20 15 44.19118	155 50 25.54768	158213.400	464435.402	HI 1	-0 07 4.43	0.9999823		
201553420004	HOEA STACK	20 15 44.19430	155 50 25.00393	158213.464	464451.182	HI 1	-0 07 4.25	0.9999823		
191553430002	HOIKEANA CHURCH SPIRE	19 18 45.18652	155 52 27.88959	53086.857	460652.502	HI 1	-0 07 25.78	0.9999858		
191551140001	HOIST	19 54 0.94745	155 07 32.75461	118145.040	539186.100	HI 1	0 07 38.59	0.9999856		
191553220011	HOKUKANO HIGS 1977	19 06 11.08332	155 32 22.26581	-135803.817	618608.548	HI 2	0 22 8.13	1.0001405	41.	19.62
201553230009	HOKUULA 1873	20 01 55.11846	155 40 50.45632	132692.471	481096.550	HI 1	-0 03 42.81	0.9999711	1030 SC	23.44
201553230010	HOKUULA 2 1948	20 01 55.06692	155 40 50.49422	132690.887	481095.447	HI 1	-0 03 42.82	0.9999711	1030.	23.44
191552130004	HOLEI HVO162 USGS	19 18 50.66306	155 08 3.31953	53253.305	538436.078	HI 1	0 07 15.49	0.9999849	421.93	18.12
191554140002	HOLOHOLOKU 1873	19 58 35.07988	155 38 34.41737	126537.410	485044.850	HI 1	-0 02 55.74	0.9999694	996.	23.44
191554340004	HOLUALOA STACK	19 37 54.93337	155 57 44.27574	88462.889	451511.530	HI 1	-0 09 19.17	0.9999957		
191554330015	HOLUALOA STORE	19 36 33.81691	155 56 59.10239	85965.071	452821.096	HI 1	-0 09 3.39	0.9999942		
191554330009	HONALO 1968	19 33 2.10580	155 56 8.05057	79451.221	454292.129	HI 1	-0 08 44.74	0.9999925	388 SC	24.67
191553440004	HONAUNAU ST BENEDICT CATH CH	19 26 8.17146	155 53 17.90383	66649.731	459222.958	HI 1	-0 07 45.14	0.9999872		
191551140005	HONOHINA 1877	19 54 47.20429	155 09 25.00411	119560.494	535918.270	HI 1	0 07 0.64	0.9999826	216.	17.86
201553340001	HONOIPIU 1913	20 14 33.17866	155 53 23.54724	156041.053	459264.770	HI 1	-0 08 5.63	0.9999872	19 SC	20.89
201552330017	HONOKAA HAWAIIAN TEL MICROWAVE	20 04 39.75981	155 27 50.28931	137745.448	503768.533	HI 1	0 00 44.53	0.9999668		
201552330023	HONOKAA SUGAR CO MILL STACK	20 05 36.62161	155 28 3.90078	139493.894	503372.736	HI 1	0 00 39.89	0.9999668		
201552330024	HONOKOA STACK	20 05 36.62156	155 28 3.91039	139493.893	503372.457	HI 1	0 00 39.88	0.9999668		
191551140012	HONOMAINOA	19 57 10.74860	155 11 11.85421	123968.460	532802.416	HI 1	0 06 24.98	0.9999800	94 SC	18.33
191551120015	HONOMU 1912	19 52 12.62618	155 06 25.13070	114818.609	541160.811	HI 1	0 08 0.91	0.9999876	68 SC	17.20
191551110002	HONOMU STACK	19 52 34.40936	155 06 39.50743	115487.477	540741.017	HI 1	0 07 56.16	0.9999872	12 SC	17.23
191553220001	HONUPO 1914	19 05 5.82547	155 32 49.59055	27851.754	495042.540	HI 1	-0 00 55.45	0.9999670	7.	19.41
191553220005	HONUPO CHURCH	19 05 13.28993	155 33 5.37688	28081.394	494581.143	HI 1	-0 01 0.62	0.9999670		
191553220003	HONUPO HUTCHINSON MILL STACK	19 05 26.29070	155 32 55.71986	28481.048	494863.544	HI 1	-0 00 57.47	0.9999670		
191553220002	HONUPO HUTCHINSON STACK 1967	19 05 26.43780	155 32 55.32221	28485.568	494875.169	HI 1	-0 00 57.34	0.9999670		

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NAD 83 GEODETIC AND STATE PLANE COORDINATES

QIDQSN	STATION NAME	LATITUDE (NORTH)	LONGITUDE (WEST)	NORTHING METERS*	EASTING METERS*	ZONE	CONVERGENCE	SCALE FACTOR	ELEV.GEOID (M)	HT (M)
191543440002	HONUAULA 1901	19 28 48.82675	154 53 18.78401	71719.357	564192.554	HI 1	0 12 14.09	1.0000176	213 SC	17.08
191543440001	HONUAULA 1914	19 28 50.40657	154 53 12.09541	71768.632	564387.442	HI 1	0 12 16.34	1.0000179	213 SC	17.08
191543440003	HONUAULA HTS 1949	19 28 48.82916	154 53 18.79293	71719.430	564192.294	HI 1	0 12 14.09	1.0000176	259.	17.12
191553440031	HOOKENA 1972	19 22 49.82334	155 54 0.30311	60615.108	457972.141	HI 1	-0 07 57.96	0.9999885	2.	23.64
191553440012	HOOKENA ABANDONED CHURCH SPIRE	19 22 55.72130	155 54 1.63186	60796.552	457933.788	HI 1	-0 07 58.44	0.9999885		
191554310001	HUALALAI 2 1882	19 41 19.28806	155 52 13.64032	94723.173	461158.339	HI 1	-0 07 29.32	0.9999853	312 SC	24.54
191551340004	HUIKAU	19 42 37.32432	155 26 24.49757	97081.520	506275.531	HI 1	0 01 12.68	0.9999672	2235 SC	24.03
201552320003	HUMUULA 1877	19 59 54.50207	155 16 37.99824	128988.781	523312.590	HI 1	0 04 34.28	0.9999734	331.	20.22
191552410020	HVO 113 USGS 1977	19 25 15.93298	155 17 12.43994	65072.864	522391.648	HI 1	0 04 15.22	0.9999729	1248 SC	22.08
191552410025	HVO 113 USGS 1977 PRE	19 25 15.95080	155 17 12.39415	65073.413	522392.983	HI 1	0 04 15.24	0.9999729	1248 SC	22.08
191552410019	HVO 119 USGS 1977	19 23 34.51784	155 17 29.17071	61953.923	521907.340	HI 1	0 04 9.31	0.9999726	1122.	21.90
191552420013	HVO 128 USGS 1977	19 18 3.50707	155 22 16.56010	51767.811	513529.590	HI 1	0 02 33.18	0.9999689	804.	21.95
191552420019	HVO 128 USGS 1977 PRE	19 18 3.48657	155 22 16.55299	51767.181	513529.798	HI 1	0 02 33.18	0.9999689	804.	21.95
191543440019	HVO123 USGS	19 26 9.46457	154 56 42.79940	66798.866	558258.647	HI 1	0 11 4.59	1.0000086	311.	17.82
191543440016	HVO125 USGS	19 25 35.52948	154 55 40.90583	65761.289	560067.603	HI 1	0 11 24.87	1.0000112	127.	17.56
191543440014	HVO146 USGS	19 25 4.36518	154 54 8.91684	64812.112	562754.491	HI 1	0 11 55.16	1.0000153	46.	17.11
191543440013	HVO147 USGS	19 23 55.86070	154 55 21.63300	62698.412	560640.107	HI 1	0 11 30.33	1.0000121	33.	17.29
191543410003	HVO149 USGS	19 28 4.56744	154 51 34.61991	70369.457	567235.389	HI 1	0 12 48.36	1.0000225	75.	16.48
191544320008	HVO152 USGS	19 31 35.39793	154 50 7.10224	76862.196	569762.788	HI 1	0 13 19.84	1.0000268	28.	15.92
191544320006	HVO153 USGS	19 30 53.69364	154 50 45.72505	75575.454	568641.627	HI 1	0 13 6.48	1.0000249	68.	16.20
191552430008	HVO160 USGS	19 18 19.68369	155 24 52.02351	52262.401	508990.767	HI 1	0 01 41.82	0.9999677	727.	22.55
191553240001	IHUAU	19 09 44.60063	155 43 58.47175	36438.983	475501.213	HI 1	-0 04 35.23	0.9999741		
191543440018	IILEWA USGS	19 26 5.98180	154 57 24.32214	66687.911	557047.731	HI 1	0 10 50.74	1.0000069	384.	17.92
201552330021	IKI 1932	20 05 29.95298	155 27 24.40236	139289.090	504520.237	HI 1	0 00 53.45	0.9999669	155 SC	22.28
201552330020	IKI 2 1966	20 05 29.74380	155 27 24.25785	139282.659	504524.437	HI 1	0 00 53.50	0.9999669	155 SC	22.28
181554140020	INSTALLATION ON SOUTH PAD CTR	18 56 20.02976	155 40 56.58198	11694.469	480790.051	HI 1	-0 03 33.10	0.9999712	94 SC	18.44
201552330015	ISAACS	20 05 30.01233	155 27 24.36627	139290.915	504521.285	HI 1	0 00 53.46	0.9999669	154.0	22.27
201553240001	ISLAND HIGHEST POINT	20 11 32.07861	155 42 10.59751	150437.073	478789.102	HI 1	-0 04 12.18	0.9999722		
191554330010	JUDD 1948	19 36 18.54631	155 56 11.10263	85491.877	454218.579	HI 1	-0 08 47.17	0.9999926	561.	24.64
181554140005	KA LAE 1887	18 54 46.88547	155 40 54.12185	8830.519	480859.082	HI 1	-0 03 32.02	0.9999712	9 SC	18.12
181554140006	KA LAE 2	18 54 45.78542	155 40 54.26827	8796.701	480854.763	HI 1	-0 03 32.07	0.9999712	11.26	18.12
181554140017	KA LAE LIGHT	18 54 43.64744	155 40 54.53141	8730.973	480846.995	HI 1	-0 03 32.15	0.9999712		18.11
181554140013	KA LAE LIGHT 1948	18 54 43.69291	155 40 54.76283	8732.378	480840.225	HI 1	-0 03 32.22	0.9999712		18.11
191552420008	KAHAHA USGS	19 14 49.58776	155 19 0.30197	45810.372	519265.426	HI 1	0 03 37.47	0.9999713	667.	20.23
191552420016	KAHAHA USGS PRE	19 14 49.60104	155 19 0.48372	45810.775	519260.118	HI 1	0 03 37.41	0.9999713	667.	20.23
201553230002	KAALA 1877	20 03 3.52447	155 38 8.62025	134791.533	485801.517	HI 1	-0 02 47.53	0.9999692	1215.	23.15
191551440003	KAALIALI 1949	19 52 37.89380	155 23 36.30412	115551.128	511161.773	HI 1	0 02 10.46	0.9999682	2768.	22.65
201552330016	KAHO	20 04 28.12651	155 27 47.17563	137387.739	503859.075	HI 1	0 00 45.59	0.9999669	378.0	22.56
191553420002	KAAPUNA	19 15 0.51227	155 48 31.49018	46164.952	467541.223	HI 1	-0 06 6.45	0.9999797	1536.0	21.72
191552120005	KAENA POINT USGS 1977	19 16 52.22177	155 07 17.32534	49614.322	539786.691	HI 1	0 07 29.97	0.9999862	24.	17.51
191553120002	KAHAHA 1897	19 15 57.13413	155 29 52.74270	47877.108	500211.913	HI 1	0 00 2.39	0.9999667	1120.	22.29
191553120001	KAHAHA 2 1949	19 15 56.96703	155 29 52.61568	47871.971	500215.623	HI 1	0 00 2.44	0.9999667	1120.	22.29
191553310007	KAHAHAWAI HTS 1948	19 07 38.58380	155 50 17.45954	32582.373	464420.217	HI 1	-0 06 38.93	0.9999823	532.	19.54
201553310017	KAHEI HTS 1948	20 14 26.63718	155 50 13.03392	155827.759	464793.692	HI 1	-0 06 59.67	0.9999820	190.	20.68
191554330022	KAHELO 1882	19 37 12.56831	155 59 6.87978	87166.861	449101.121	HI 1	-0 09 46.59	0.9999987	17.	24.62

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NAD 83 GEODETIC AND STATE PLANE COORDINATES

QIDQSN	STATION NAME	LATITUDE (NORTH)	LONGITUDE (WEST)	NORTHING METERS*	EASTING METERS*	ZONE	CONVERGENCE	SCALE FACTOR	ELEV. GEOID (M)	HT (M)
191554330023	KAHELO 2 HIGS	19 37 10.57711	155 59 12.15661	87106.070	448947.193	HI 1	-0 09 48.34	0.9999989	3.	24.62
191551340001	KAHILIKU	19 41 17.53800	155 23 32.22236	94630.631	511293.823	HI 1	0 02 10.64	0.9999682	1818.00	23.61
191553430012	KAHOE 1972	19 18 51.66106	155 53 2.42287	53288.145	459644.839	HI 1	-0 07 37.24	0.9999868	2 SC	22.81
201552320005	KAHOLO 1877	20 00 50.94572	155 18 22.64436	130720.660	520268.719	HI 1	0 03 58.67	0.9999717	292.	20.80
191553430005	KAHOLO FLAG	19 20 12.46257	155 52 59.53138	55772.476	459734.746	HI 1	-0 07 36.80	0.9999867	152.0	23.19
191551140006	KAHUKU FLAG	19 55 54.49387	155 09 37.23709	121628.948	535558.306	HI 1	0 06 56.85	0.9999823	67 SC	17.86
191553320002	KAHUKU NORTHWEST BASE 1948	19 05 3.66048	155 46 29.95421	27807.226	471061.534	HI 1	-0 05 23.68	0.9999770	606.	19.09
191553230003	KAHUKU SOUTHEAST BASE 1948	19 04 5.90620	155 43 41.65038	26024.378	475979.124	HI 1	-0 04 28.43	0.9999738	607.	19.01
191543440021	KAHUKUAI USGS	19 27 42.70278	154 53 44.20290	69683.442	563458.409	HI 1	0 12 4.95	1.0000164	235.	17.21
191551140010	KAIKAAKEA	19 56 45.67722	155 10 45.21218	123198.969	533578.549	HI 1	0 06 33.94	0.9999806	102 SC	18.19
191553210009	KAIHOLENA 1897	19 10 30.60087	155 34 50.29872	37838.983	491518.611	HI 1	-0 01 35.35	0.9999676	1162 SC	20.65
191553210008	KAIHOLENA 2 1949	19 10 22.14197	155 34 46.74117	37578.847	491622.430	HI 1	-0 01 34.17	0.9999675	1137.	20.61
191554340009	KAILUA 1887	19 38 32.94305	155 59 38.95798	89641.050	448173.602	HI 1	-0 09 58.01	0.9999999	25.	24.61
191561210008	KAILUA EAST OIL TANK	19 38 20.88355	155 59 52.88709	89271.403	447766.713	HI 1	-0 10 2.59	1.0000004		
191561210010	KAILUA LIGHT	19 38 16.12036	156 00 3.16383	89125.813	447466.879	HI 1	-0 10 6.01	1.0000008	11.	24.61
191561210021	KAILUA LIGHT ECC	19 38 16.23869	156 00 3.28650	89129.462	447463.315	HI 1	-0 10 6.05	1.0000008	11 SC	24.61
191561210002	KAILUA LIGHTHOUSE	19 38 16.45369	156 00 3.50529	89136.092	447456.960	HI 1	-0 10 6.13	1.0000008		
191554340008	KAILUA MOKUAIKAU CHURCH SPIRE	19 38 22.93734	155 59 37.55985	89333.258	448213.443	HI 1	-0 09 57.46	0.9999998		
191561210009	KAILUA WEST OIL TANK	19 38 20.26804	155 59 52.69396	89252.460	447772.285	HI 1	-0 10 2.52	1.0000004		
191554330006	KAINALIU LANAKILA CHURCH SPIRE	19 32 5.73599	155 55 42.68485	77716.024	455027.201	HI 1	-0 08 35.85	0.9999917		
191554330008	KAINALIU ST PAUL CATH CH SPIRE	19 32 29.63274	155 55 54.14958	78451.671	454694.824	HI 1	-0 08 39.86	0.9999920		
191561210017	KAIWI 1972	19 39 29.43982	156 01 53.23154	91390.095	444267.144	HI 1	-0 10 43.64	1.0000050	2 SC	24.52
191551130001	KAIWIKI NEW USGS 1949	19 45 21.53059	155 07 54.19347	102171.563	538597.345	HI 1	0 07 28.15	0.9999851	370.	18.29
191551140018	KAIWILAHILAHI	19 58 30.97864	155 12 54.01676	126430.267	529827.687	HI 1	0 05 50.49	0.9999777	88 SC	18.89
191551140017	KAIWILAHILAHI 2 1913	19 58 31.00162	155 12 54.02809	126430.973	529827.357	HI 1	0 05 50.49	0.9999777	88 SC	18.89
181554140014	KALAE LIGHT	18 54 43.79526	155 40 54.62708	8735.521	480844.200	HI 1	-0 03 32.18	0.9999712		
191551340003	KALAEHA PUU	19 42 14.23127	155 26 17.17366	96371.504	506489.085	HI 1	0 01 15.13	0.9999672	2140.00	24.04
191552110001	KALALUA USGS	19 24 9.35722	155 03 56.06686	63069.396	545629.263	HI 1	0 08 39.55	0.9999924	22.	18.21
191553440006	KALAMA UMI	19 29 14.15442	155 53 42.64667	72431.641	458514.480	HI 1	-0 07 54.60	0.9999879		
191554340006	KALAOA CATHOLIC CHURCH SPIRE	19 43 35.79619	155 58 41.50239	98948.983	449873.668	HI 1	-0 09 41.08	0.9999977		
191553440001	KALAPA 1884	19 25 7.17619	155 52 36.86508	64833.042	460416.109	HI 1	-0 07 31.12	0.9999860	388.	24.30
191543430001	KALAPANA CHURCH	19 21 4.09620	154 58 36.68642	57398.666	554964.940	HI 1	0 10 24.06	1.0000040		
191551410003	KALEPA 1876	19 52 56.94663	155 21 54.53044	116139.120	514121.920	HI 1	0 02 45.10	0.9999691	2339.	22.19
191551410004	KALEPA OLD SURFACE STA 1876	19 52 56.95348	155 21 54.53488	116139.330	514121.790	HI 1	0 02 45.10	0.9999691	2339 SC	22.19
191553310008	KALIHU	19 08 6.70253	155 50 34.88780	33447.950	463912.575	HI 1	-0 06 44.80	0.9999828		
191561210019	KALIHU 1972	19 43 16.99086	156 03 22.54334	98395.649	441688.298	HI 1	-0 11 15.77	1.0000087	2 SC	24.33
191543440010	KALIU HGS 1891	19 27 9.01421	154 55 8.12998	68639.097	561014.058	HI 1	0 11 36.67	1.0000127	327.	17.56
191543440011	KALIU HGS 1949	19 27 9.02827	154 55 8.13122	68639.529	561014.021	HI 1	0 11 36.67	1.0000127	327.	17.56
191551420001	KALOALOA HGS 1949	19 48 49.12979	155 20 0.58349	108521.780	517444.070	HI 1	0 03 23.18	0.9999704	2024.	21.96
191544330003	KALOLI 1896	19 37 18.86470	154 56 45.88530	87382.411	558102.104	HI 1	0 11 9.67	1.0000084	9 SC	17.64
191544330004	KALOLI 2 1949	19 37 18.56339	154 56 46.51113	87373.087	558083.899	HI 1	0 11 9.45	1.0000084	8.	17.64
191553430007	KALUA O LAPAUWILA 1884	19 18 2.90966	155 53 20.33602	51790.286	459118.554	HI 1	-0 07 42.86	0.9999873	28 SC	22.57
191551440007	KALUAMAKANI 1876	19 54 19.68631	155 29 21.39097	118677.732	501122.943	HI 1	0 00 13.15	0.9999667	2311 SC	23.35
191543440004	KAMAILII	19 24 28.91150	154 54 21.84010	63720.628	562381.221	HI 1	0 11 50.52	1.0000147	13 SC	17.11
191552420003	KAMAKAIIA	19 18 3.49126	155 22 16.58108	51767.324	513528.978	HI 1	0 02 33.17	0.9999689		

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* For conversion of meters to International Feet multiply the meters by 100.0/30.48 which is 3.28083989501 to 12 significant figures

NAD 83 GEODETIC AND STATE PLANE COORDINATES

QIDQSN	STATION NAME	LATITUDE (NORTH)	LONGITUDE (WEST)	NORTHING METERS*	EASTING METERS*	ZONE	CONVERGENCE	SCALE FACTOR	ELEV.GEOID (M)	HT(M)
191552420006	KAMAKAIA HTS 1949	19 18 3.49887	155 22 16.56822	51767.558	513529.353	HI 1	0 02 33.18	0.9999689	804.	21.95
191552420007	KAMAKAIA S	19 18 3.42499	155 22 16.66837	51765.285	513526.431	HI 1	0 02 33.15	0.9999689		
191552430001	KAMAKAMAKA HTS 1949	19 15 20.12360	155 27 46.11654	46739.539	503909.646	HI 1	0 00 44.15	0.9999669	569.	22.03
191552340006	KAMEHAME 1897	19 08 41.14715	155 27 57.44831	34471.965	503581.135	HI 1	0 00 40.19	0.9999668	18.	20.14
191552340007	KAMEHAME NEW HTS 1949	19 08 41.51790	155 27 57.63651	34483.364	503575.633	HI 1	0 00 40.13	0.9999668	17.	20.14
181554110001	KAMILO 1898	18 58 12.49736	155 36 5.90186	15145.630	489296.628	HI 1	-0 01 58.95	0.9999681	6.	18.79
191552120008	KAMOAMOA HVO158 USGS	19 19 4.79189	155 03 46.45443	53705.122	545933.403	HI 1	0 08 40.56	0.9999927	23.	17.32
191553330002	KAMOI 1948	19 04 46.76693	155 54 2.91194	27313.321	457819.285	HI 1	-0 07 51.67	0.9999887	16.	18.87
201553230014	KAMUELA AIRPORT VOR 1967	19 59 52.94424	155 40 11.54728	128934.389	482223.508	HI 1	-0 03 29.14	0.9999706		
201553220001	KAMUKAMAKA HTS 1913	20 06 13.19499	155 29 54.08755	140618.219	500171.748	HI 1	0 00 2.03	0.9999667	172 SC	22.21
191554330003	KANAKAU 1948	19 30 37.15580	155 55 13.46354	74990.146	455872.402	HI 1	-0 08 25.47	0.9999907	458.	24.69
201553320010	KAPA-AKEA	20 05 24.06303	155 52 14.22876	139150.448	461238.970	HI 1	-0 07 38.31	0.9999852		
201553310001	KAPAAIKI 1913	20 14 7.54878	155 45 12.43683	155225.216	473517.179	HI 1	-0 05 15.59	0.9999753	24.	20.32
191552340004	KAPAPALA 1949	19 14 16.05860	155 26 49.88202	44770.119	505552.398	HI 1	0 01 2.64	0.9999670	474.	21.62
191544320003	KAPOHO HGS 1896	19 29 50.56419	154 50 21.06156	73636.975	569368.221	HI 1	0 13 14.04	1.0000261	137.	16.04
191552340008	KAPOHO HIGS 1949	19 14 22.69379	155 27 57.63959	44973.641	503573.497	HI 1	0 00 40.32	0.9999668	501.	21.75
191553310009	KAPUA 1948	19 08 28.51230	155 51 0.18091	34120.016	463174.764	HI 1	-0 06 53.22	0.9999834	498.	19.73
191553340004	KAPUKAWAA 1884	19 11 14.43474	155 54 26.22507	39234.836	457165.535	HI 1	-0 08 1.89	0.9999893	14.	20.44
191553220009	KAPUNA 2 1898	19 04 53.45911	155 36 2.10060	27473.895	489414.878	HI 1	-0 01 58.38	0.9999681	645.	19.33
201552330005	KAU 1967	20 03 49.91825	155 23 36.99111	136215.938	511128.682	HI 1	0 02 11.40	0.9999682	123 SC	21.99
191552340019	KAU HIGS 1977	19 12 9.10645	155 28 41.13765	40865.959	502303.667	HI 1	0 00 25.94	0.9999667	283.	21.13
191552420010	KAU USGS	19 17 10.13509	155 19 27.81674	50131.061	518457.529	HI 1	0 03 28.80	0.9999709	635.	21.00
191552430003	KAUHAO	19 15 59.71134	155 29 39.21275	47956.360	500606.986	HI 1	0 00 6.86	0.9999667	1062 SC	
191552430002	KAUHAO 1914	19 15 59.70949	155 29 39.20697	47956.304	500607.155	HI 1	0 00 6.86	0.9999667	1062 SC	22.31
201553310026	KAUHOLA 1881	20 14 46.79157	155 46 17.22126	156434.960	471638.825	HI 1	-0 05 38.18	0.9999766	10.	20.19
201553310028	KAUHOLA 2 1948	20 14 47.01608	155 46 17.95508	156441.899	471617.539	HI 1	-0 05 38.43	0.9999766	10 SC	20.19
201553310027	KAUHOLA POINT LIGHT	20 14 47.15810	155 46 17.67852	156446.253	471625.573	HI 1	-0 05 38.34	0.9999766		
201553310025	KAUHOLA POINT LIGHT 1948	20 14 46.61486	155 46 17.11509	156429.521	471641.898	HI 1	-0 05 38.14	0.9999766		
201554430003	KAUIKI 1878	20 45 15.25741	155 58 53.82899	46748.440	571339.502	HI 2	0 14 33.95	1.0000295	118.	13.54
201554430001	KAUIKI HEAD LIGHT	20 45 25.52320	155 58 46.47553	47065.062	571550.884	HI 2	0 14 36.67	1.0000299		
191551130002	KAUKU 1877	19 49 59.33990	155 09 20.34707	110708.896	536071.800	HI 1	0 07 0.60	0.9999827	599.	18.22
191553430014	KAULUOA 1972	19 19 20.75848	155 53 19.61130	54183.963	459145.083	HI 1	-0 07 43.12	0.9999873	2 SC	22.94
201552330003	KAUMOALI 2 1948	20 03 44.92559	155 23 35.75556	136062.434	511164.681	HI 1	0 02 11.81	0.9999682	134.	22.00
191553330001	KAUNA POINT LIGHT, 1949	19 02 2.53361	155 52 43.74810	22258.411	460122.611	HI 1	-0 07 24.76	0.9999863	17.	18.53
191554340001	KAUPULEHU 1906	19 42 56.05812	155 54 30.53512	97707.959	457178.443	HI 1	-0 08 16.09	0.9999893	1872.	24.52
191554430001	KAUPULEHU FLOW 1948	19 46 28.22079	155 55 26.00822	104235.907	455579.367	HI 1	-0 08 36.29	0.9999910	595.	24.45
201553320008	KAWAIHAE LIGHT	20 02 29.12433	155 49 58.20186	133762.611	465180.037	HI 1	-0 06 50.63	0.9999816		
201553320007	KAWAIHAE LIGHTHOUSE.	20 02 29.11497	155 49 58.21061	133762.324	465179.782	HI 1	-0 06 50.63	0.9999816		
201553320006	KAWAIHAE WIRELESS	20 02 27.25717	155 49 56.24730	133705.081	465236.724	HI 1	-0 06 49.95	0.9999816		
201553230012	KAWAIWAI 1948	20 02 32.84102	155 44 5.27969	133859.491	475436.233	HI 1	-0 04 49.69	0.9999741	983 SC	23.55
201553230013	KAWAIWAI 1948	20 02 32.67674	155 44 5.34675	133854.442	475434.277	HI 1	-0 04 49.71	0.9999741	983.	23.56
201553220003	KAWELA 1881	20 05 47.08404	155 30 10.01465	139815.295	499709.075	HI 1	-0 00 3.44	0.9999667	288.	22.33
191561210020	KE-AHOLE AIRPORT AERO BEACON,	19 44 2.30812	156 02 28.82711	99784.112	443256.933	HI 1	-0 10 58.05	1.0000064		24.41
191551430015	KEA 1977	19 49 22.08407	155 28 8.73784	109526.814	503237.735	HI 1	0 00 37.73	0.9999668	4202.	23.63
191551430016	KEA RM A 1977	19 49 22.80350	155 28 8.89213	109548.935	503233.241	HI 1	0 00 37.68	0.9999668	4202.	23.63

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NAD 83 GEODETIC AND STATE PLANE COORDINATES

QIDQSN	STATION NAME	LATITUDE (NORTH)	LONGITUDE (WEST)	NORTHING METERS*	EASTING METERS*	ZONE	CONVERGENCE	SCALE FACTOR	ELEV. GEOD (M)	HT (M)
191561210016	KEA VORTAC 1972	19 39 16.09350	156 01 29.30944	90977.534	444962.750	HI 1	-0 10 35.48	1.0000041		
191551220001	KEAAU 1949	19 36 37.79529	155 02 59.13948	86087.539	547229.812	HI 1	0 09 4.01	0.9999942	184.38	18.18
191561210015	KEAHOLE 1882	19 43 29.04567	156 03 28.99661	98766.955	441501.601	HI 1	-0 11 18.06	1.0000089	8 SC	24.31
191561210014	KEAHOLE 2 1948	19 43 28.92686	156 03 28.89995	98763.292	441504.403	HI 1	-0 11 18.03	1.0000089	7.	24.31
191561210006	KEAHOLE POINT LIGHT	19 43 40.33123	156 03 39.86685	99115.033	441186.218	HI 1	-0 11 21.83	1.0000094		
191561210007	KEAHOLE POINT LIGHTHOUSE	19 43 40.35011	156 03 39.80100	99115.607	441188.137	HI 1	-0 11 21.81	1.0000094		
191561210013	KEAHUOLU 1882	19 38 58.88546	156 01 32.17160	90448.645	444877.739	HI 1	-0 10 36.29	1.0000042	15 SC	24.55
191561210004	KEAHUOLU PT NE RNG MARKER	19 39 58.32865	156 01 44.19127	92277.607	444533.254	HI 1	-0 10 40.85	1.0000047		
191561210005	KEAHUOLU PT NW RNG MARKER	19 39 57.17223	156 01 48.98532	92242.481	444393.495	HI 1	-0 10 42.46	1.0000049		
191561210003	KEAHUOLU PT SW RNG MARKER	19 38 57.45606	156 01 38.18582	90405.232	444702.394	HI 1	-0 10 38.30	1.0000044		
191561210012	KEAHUOLU RM1	19 38 58.87351	156 01 31.90122	90448.253	444885.614	HI 1	-0 10 36.20	1.0000042	15.	24.55
191552340001	KEAIWA CAIRN	19 11 18.13897	155 23 59.04902	39301.728	510544.731	HI 1	0 01 58.64	0.99999680		
191552430004	KEAKAPULU 1949	19 21 55.01410	155 25 15.22241	58883.041	508310.494	HI 1	0 01 34.43	0.99999675	1247.	23.54
201553420007	KEALAEHEWA 1948	20 15 53.35337	155 52 5.01601	158501.333	461549.494	HI 1	-0 07 38.94	0.9999849	17 SC	20.33
201553420006	KEALAEHEWA 2 1948	20 15 53.08251	155 52 4.40039	158492.964	461567.340	HI 1	-0 07 38.72	0.9999849	17.	20.33
191554330004	KEALAKEKUA KONA CHURCH SPIRE	19 30 54.63320	155 55 14.65543	75527.646	455838.968	HI 1	-0 08 25.99	0.9999908		
191554330001	KEALAKEKUA RADIO KONA MAST	19 31 2.19269	155 54 53.94422	75758.623	456443.391	HI 1	-0 08 19.12	0.9999901		
191554130003	KEAMUKU 1882	19 49 39.58408	155 43 57.81756	110081.430	475620.153	HI 1	-0 04 44.18	0.9999740	938.	24.02
191552410004	KEANAKAKOI 1949	19 23 49.36242	155 16 19.31521	62412.947	523944.955	HI 1	0 04 32.56	0.9999738	1125.03	21.57
191552410023	KEANAKAKOI 1949 PRE	19 23 49.46002	155 16 19.34404	62415.947	523944.110	HI 1	0 04 32.55	0.9999738	1125.03	21.57
191554330012	KEAUHOU	19 33 44.34365	155 56 35.06799	80752.028	453507.935	HI 1	-0 08 54.09	0.9999934	317.0	24.66
191554330014	KEAUHOU 2 1928	19 33 44.33933	155 56 35.06314	80751.895	453508.076	HI 1	-0 08 54.09	0.9999934	318 SC	24.66
191554330020	KEAUHOU COAST 1948	19 33 12.49560	155 58 0.15434	79779.312	451025.177	HI 1	-0 09 22.34	0.9999963	7.	24.66
191551210003	KEAUKAHA 1949	19 44 3.53350	155 00 14.28485	99807.275	551993.608	HI 1	0 10 2.98	1.0000001	9.	17.20
201553330001	KEAWANUI 1881	20 06 23.68015	155 52 50.77938	140986.127	460181.303	HI 1	-0 07 51.24	0.9999863	33.	23.35
191553440033	KEAWE 1948	19 26 4.53795	155 54 53.60060	66606.013	456431.312	HI 1	-0 08 16.97	0.9999901	43.	24.42
191553440028	KEAWEKAHEKA 1891	19 29 3.72802	155 56 53.73455	72124.721	452941.284	HI 1	-0 08 58.27	0.9999940	11.	24.67
191553440014	KEEI 1948	19 26 51.48677	155 54 22.85241	68047.497	457331.664	HI 1	-0 08 7.06	0.9999892	97.	24.53
191553440005	KEEI LATTER DAY SAINTS CHURCH	19 27 11.80535	155 53 25.95979	68668.427	458992.541	HI 1	-0 07 48.24	0.9999874		
191553440022	KEEI NORTH BASE 1948	19 27 55.50294	155 55 9.35181	70019.180	455980.154	HI 1	-0 08 22.98	0.9999906	12.	24.62
191553440017	KEEI SOUTH BASE 1948	19 26 3.98937	155 54 53.04801	66589.106	456447.391	HI 1	-0 08 16.79	0.9999901	43.	24.42
201553340016	KEHENA 1881	20 08 9.54056	155 53 11.77772	144242.858	459578.888	HI 1	-0 07 59.13	0.9999869	77.	22.91
201553310023	KEHONI HTS 1948	20 14 32.21315	155 51 59.12954	156005.767	461714.790	HI 1	-0 07 36.41	0.9999848	204.	20.79
191551210006	KEOKEA 1878	19 44 19.24625	155 02 24.29632	100279.779	548206.766	HI 1	0 09 19.19	0.9999954	2 SC	17.31
191553440013	KEOKEA 1928	19 24 50.97262	155 54 17.00476	64341.427	457493.522	HI 1	-0 08 4.31	0.9999890	44 SC	24.24
191551210007	KEOKEA 2 1951	19 44 14.44858	155 02 32.71042	100131.588	547962.178	HI 1	0 09 16.31	0.9999951	4.	17.34
191553440029	KEOPUKA 1948	19 29 14.87133	155 56 59.12406	72467.779	452785.013	HI 1	-0 09 0.15	0.9999942	13.	24.67
201553420002	KEPUHI 1913	20 15 52.10225	155 49 51.07648	158454.648	465436.229	HI 1	-0 06 52.54	0.9999814	23 SC	20.14
201553420003	KEPUHI 2 1948	20 15 51.52451	155 49 51.19023	158436.888	465432.893	HI 1	-0 06 52.57	0.9999814	22.	20.15
191551440002	KIHE	19 53 59.09725	155 23 32.72096	118048.186	511264.412	HI 1	0 02 11.82	0.9999682	2384.	22.55
191552410005	KILAUEA MILITARY CAMP FLAGPOLE	19 25 56.19742	155 16 26.01516	66312.657	523744.355	HI 1	0 04 30.81	0.9999736		
191553220006	KIPAEPAE 1898	19 02 5.98349	155 34 10.95348	22322.947	492661.947	HI 1	-0 01 21.85	0.9999673	142.	18.99
191553430006	KIPAHOEHOE	19 15 1.21867	155 53 7.68038	46202.783	459475.620	HI 1	-0 07 37.52	0.9999870	282.0	21.64
191552420002	KOAE 1920	19 21 19.49178	155 19 20.69340	57798.482	518657.644	HI 1	0 03 31.88	0.9999710	992.	22.01
191552420015	KOAE 2 1977	19 21 19.38375	155 19 20.69138	57795.161	518657.706	HI 1	0 03 31.88	0.9999710	989.	22.01

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NAD 83 GEODETIC AND STATE PLANE COORDINATES

QIDQSN	STATION NAME	LATITUDE (NORTH)	LONGITUDE (WEST)	NORTHING METERS*	EASTING METERS*	ZONE	CONVERGENCE	SCALE FACTOR	ELEV. GEOID (M)	HT (M)
191552420014	KOAE USGS 1949	19 21 19.40247	155 19 20.67484	57795.737	518658.188	HI 1	0 03 31.89	0.9999710	992.	22.01
191552420017	KOAE USGS 1949 PRE	19 21 19.47740	155 19 20.67064	57798.041	518658.308	HI 1	0 03 31.89	0.9999710	992.	22.01
201553310024	KOHALA LATITUDE STATION 1881	20 14 46.80376	155 46 17.06671	156435.328	471643.311	HI 1	-0 05 38.12	0.9999766	10 SC	20.19
201553310005	KOHALA MILL STACK	20 14 2.57544	155 46 45.09127	155076.603	470827.677	HI 1	-0 05 47.62	0.9999772		
201553200008	KOHOLA LELE 1877	20 01 9.60678	155 21 27.53714	131289.099	514894.291	HI 1	0 02 55.44	0.9999694	461.	21.77
191551430002	KOLE	19 44 50.19850	155 25 9.81442	101168.201	508448.400	HI 1	0 01 38.05	0.9999675		
191551440005	KOLE-N	19 53 3.49058	155 26 57.07414	116335.495	505321.102	HI 1	0 01 2.22	0.9999670		
181554140019	KOLONO	18 56 20.77994	155 40 55.87360	11717.513	480810.800	HI 1	-0 03 32.87	0.9999712	94 SC	18.44
181554140018	KOLONO RM 1	18 56 21.42994	155 40 55.10941	11737.475	480833.179	HI 1	-0 03 32.63	0.9999712	95 SC	18.44
191554340014	KONA HILTON HOTEL SLIDE TOP	19 37 54.58516	155 59 26.00788	88460.463	448547.490	HI 1	-0 09 53.35	0.9999994		
191551210072	KUHIO BAY RANGE FRONT LIGHT	19 43 56.80438	155 03 12.09831	99585.973	546816.777	HI 1	0 09 2.88	0.9999937		
191551210085	KUHIO BAY RANGE FRONT LT	19 43 57.14002	155 03 14.79889	99596.087	546738.117	HI 1	0 09 1.97	0.9999937		
191551210071	KUHIO BAY RANGE REAR LIGHT	19 43 55.02776	155 02 57.52639	99532.463	547241.215	HI 1	0 09 7.79	0.9999942		
201553220002	KUILEI 1877	20 05 3.02330	155 30 2.02741	138460.404	499941.099	HI 1	-0 00 0.70	0.9999667	438.	22.52
191561120001	KUILI 1882	19 48 0.72748	156 00 34.77326	107105.296	446599.910	HI 1	-0 10 21.53	1.0000019	105.	24.45
191553430013	KUKU 1972	19 18 23.27730	155 53 14.15487	52416.154	459300.408	HI 1	-0 07 40.94	0.9999871	2 SC	22.67
201552330006	KUKUI 1967	20 03 27.89238	155 24 32.49974	135537.680	509516.195	HI 1	0 01 52.32	0.9999678	266 SC	22.26
201553210004	KUKUIHAELE LANDNG PAC MILL STK	20 07 36.94196	155 33 33.05051	143194.585	493812.097	HI 1	-0 01 13.31	0.9999671		
201553210001	KUKUIHAELE LIGHT	20 07 39.82517	155 33 22.40973	143283.138	494121.181	HI 1	-0 01 9.65	0.9999671		
201553210003	KUKUIHAELE STACK	20 07 34.45166	155 33 32.24681	143117.998	493835.413	HI 1	-0 01 13.03	0.9999671		
201552330007	KUKUILAMALAMAHEE 1948	20 03 24.86475	155 24 33.82208	135444.558	509477.822	HI 1	0 01 51.86	0.9999678	287.	22.27
191551320001	KULANI HGS 1891	19 31 13.67083	155 17 56.26865	76071.229	521100.185	HI 1	0 04 1.83	0.9999722	1684.	22.64
191551320004	KULANI HGS 1891 AZ MK	19 32 54.46294	155 18 12.88647	79169.895	520612.143	HI 1	0 03 56.60	0.9999719	1592.	22.68
191551320005	KULANI RM 1 1978	19 31 13.49970	155 17 56.03563	76065.975	521106.985	HI 1	0 04 1.91	0.9999722	1683.	22.64
191544320002	KUMUKAHI 1914	19 30 59.44560	154 48 39.37842	75766.752	572324.835	HI 1	0 13 48.76	1.0000313	13.	15.31
191552120001	KUPAPAU 1914	19 19 44.06541	155 01 0.90399	54925.570	550762.707	HI 1	0 09 35.64	0.9999985	7.39	17.18
191554330021	LAALOA 1948	19 35 16.77185	155 58 18.38364	83602.201	450504.343	HI 1	-0 09 29.40	0.9999969	7.	24.65
191553440016	LAE LOA 1884	19 23 52.80716	155 54 37.22721	62554.307	456899.291	HI 1	-0 08 10.64	0.9999896	9.	24.05
191553440032	LAE MAMO 1972	19 23 35.23533	155 54 30.99925	62013.564	457079.725	HI 1	-0 08 8.45	0.9999894	6.	23.99
191554340013	LAE NIAU 2 1972	19 40 28.13672	155 58 3.70916	93175.401	450958.263	HI 1	-0 09 26.88	0.9999964	454.	24.58
191553430008	LAE O HEKU 1913	19 15 24.76711	155 53 55.83230	46930.028	458071.085	HI 1	-0 07 53.55	0.9999884	16 SC	21.75
191553440020	LAE O KANONI 1884	19 25 52.23071	155 55 1.48166	66228.135	456200.500	HI 1	-0 08 19.51	0.9999904	36.	24.39
191552120003	LAEAPUKI 1914	19 17 58.73486	155 05 12.57858	51667.801	543424.159	HI 1	0 08 11.61	0.9999900	18.	17.33
201553310008	LAHIKIOLA	20 08 52.28003	155 47 49.86465	145537.933	468930.564	HI 1	-0 06 8.51	0.9999786		
201553310007	LAHIKIOLA EAST 1948	20 08 52.31517	155 47 49.76513	145539.009	468933.456	HI 1	-0 06 8.48	0.9999786	1032.	22.37
201553310009	LAHIKIOLA WEST JBM 1948	20 08 47.82053	155 47 57.40783	145401.192	468711.258	HI 1	-0 06 11.09	0.9999788	1020.	22.40
191551120014	LAIMI 1877	19 51 44.70115	155 06 22.86695	113960.060	541228.672	HI 1	0 08 1.50	0.9999877	111 SC	17.23
191551440001	LAUMAIA B	19 56 31.87149	155 22 41.61466	122746.998	512747.492	HI 1	0 02 29.52	0.9999687	1565.00	22.22
191551140022	LAUPAHOEHOE 1913	19 59 37.06323	155 14 24.50176	128458.119	527193.916	HI 1	0 05 19.86	0.9999758	3 SC	19.42
191554430004	LAVA CONE	19 45 41.63757	155 58 30.07523	102817.684	450217.246	HI 1	-0 09 38.20	0.9999973		
191551210001	LELEIWI USGS 1912	19 44 10.89993	155 00 13.00414	100033.902	552030.235	HI 1	0 10 3.47	1.0000001	6.	17.19
201553210005	LIFT	20 07 38.11522	155 33 33.46615	143230.667	493800.038	HI 1	-0 01 13.46	0.9999671		
191544320007	LIGHTHOUSE 2 HVO151 USGS	19 31 3.60100	154 48 39.09133	75894.565	572332.692	HI 1	0 13 48.90	1.0000313	20.	15.31
191551430004	LILINOE NEW	19 48 33.38821	155 27 29.98486	108029.681	504365.818	HI 1	0 00 50.84	0.9999669	3945 SC	23.63
191551230001	LIO HIGS 1977	19 35 13.11205	155 09 28.66008	83457.258	535884.770	HI 1	0 06 52.80	0.9999826	654.	19.72

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* For conversion of meters to International Feet multiply the meters by 100.0/30.48 which is 3.28083989501 to 12 significant figures

HAWAII

NAD 83 GEODETIC AND STATE PLANE COORDINATES

QIDQSN	STATION NAME	LATITUDE (NORTH)	LONGITUDE (WEST)	NORTHING METERS*	EASTING METERS*	ZONE	CONVERGENCE	SCALE FACTOR	ELEV. GEOID (M)	HT (M)
191551430001	LOALOA 1	19 45 52.93979	155 22 55.42784	103099.747	512359.562	HI 1	0 02 23.57	0.9999686	2161 SC	23.04
191551140014	LONE HALE	19 57 7.15617	155 11 20.50742	123857.524	532551.015	HI 1	0 06 22.01	0.9999798	123 SC	18.38
201553430002	LORAN A TOWER	20 15 3.97653	155 53 12.89897	156987.411	459576.032	HI 1	-0 08 2.14	0.9999869		
201553430004	LORAN A TOWER 1977	20 15 3.98962	155 53 12.90070	156987.814	459575.983	HI 1	-0 08 2.14	0.9999869		20.70
201553430001	LORAN C TOWER	20 14 50.21231	155 53 7.80827	156563.795	459722.788	HI 1	-0 08 0.29	0.9999867		
201553430003	LORAN TOWER	20 15 5.18395	155 53 13.44531	157024.578	459560.263	HI 1	-0 08 2.33	0.9999869		
191554330011	LUN 1948	19 33 15.96692	155 56 11.61388	79877.705	454189.345	HI 1	-0 08 46.03	0.9999926	397.	24.67
191551430023	LURE CALIBRATION PT 1977	19 49 23.03026	155 28 10.15104	109555.901	503196.606	HI 1	0 00 37.25	0.9999668	4202.	23.63
191553210002	LUU 1930	19 07 25.61674	155 30 38.09258	32149.300	498886.740	HI 1	-0 00 12.48	0.9999667	16.	19.90
191551210067	LYMAN 1977	19 43 21.11845	155 03 16.96890	98488.260	546677.838	HI 1	0 09 0.98	0.9999936	9.	17.54
201552330009	MAHAKUOLO 2 1948	20 04 56.30409	155 25 22.34897	138255.650	508066.466	HI 1	0 01 35.34	0.9999675	82.	22.12
201552330008	MAHAKUOLO 3 1967	20 04 55.98205	155 25 21.91871	138245.752	508078.971	HI 1	0 01 35.48	0.9999675	82 SC	22.12
181554140001	MAHANA 1898	18 56 35.37561	155 38 52.53881	12162.907	484419.647	HI 1	-0 02 52.88	0.9999697	81.	18.53
201553340005	MAHU 1913	20 13 49.10164	155 53 56.44526	154687.890	458306.692	HI 1	-0 08 16.72	0.9999881	6 SC	21.17
201553340006	MAHUKONA HARBOR CHURCH SPIRE	20 11 6.44341	155 54 1.40066	149686.259	458150.784	HI 1	-0 08 17.37	0.9999883		
201553340009	MAHUKONA HARBOR FLAG A	20 10 18.51382	155 54 3.23899	148212.487	458093.852	HI 1	-0 08 17.69	0.9999884		
201553340010	MAHUKONA HARBOR LIGHT MAST	20 10 50.56054	155 54 5.36230	149198.116	458034.580	HI 1	-0 08 18.63	0.9999884		
201553340014	MAHUKONA HARBOR N DAY BEACON	20 11 13.28734	155 54 10.33049	149897.346	457892.025	HI 1	-0 08 20.50	0.9999886		
201553340012	MAHUKONA HARBOR S DAY BEACON	20 10 50.66117	155 54 5.91884	149201.250	458018.429	HI 1	-0 08 18.82	0.9999884		
201553340008	MAHUKONA HARBOR SCHOOLHOUSE FS	20 11 4.89453	155 54 2.01882	149638.672	458132.721	HI 1	-0 08 17.57	0.9999883	7 SC	22.08
201553340007	MAHUKONA HARBOR WHARF DERRICK	20 11 1.93263	155 54 1.42178	149547.547	458149.836	HI 1	-0 08 17.35	0.9999883		
201553340011	MAHUKONA LIGHT	20 10 49.18830	155 54 5.33985	149155.916	458035.130	HI 1	-0 08 18.61	0.9999884	39 SC	
191554330005	MAIHI 1948	19 32 48.21701	155 55 42.04531	79022.238	455049.111	HI 1	-0 08 35.94	0.9999916	480.	24.68
201554340002	MAKAALAE 1950	20 42 31.04836	155 59 20.80694	41695.007	570580.219	HI 2	0 14 22.57	1.0000282	11.	14.63
201554340005	MAKAALAE STONE PIER	20 42 32.09480	155 59 21.29950	41727.129	570565.831	HI 2	0 14 22.41	1.0000282	11 SC	14.62
191552420012	MAKAHANU PALI USGS	19 18 0.03625	155 15 17.11587	51674.299	525774.974	HI 1	0 04 51.81	0.9999749	490.	19.99
191561120002	MAKALAWENA CHURCH	19 47 28.50861	156 01 36.04618	106120.014	444813.472	HI 1	-0 10 42.01	1.0000043		
191553210007	MAKANAO 2 HSSD 1949	19 08 52.42892	155 33 3.91716	34819.286	494625.780	HI 1	-0 01 0.33	0.9999670	561.	20.23
191553440007	MAKOLEHALE	19 29 44.00713	155 53 43.62697	73349.647	458488.007	HI 1	-0 07 55.12	0.9999880	695.0	24.70
191553440008	MAKOLEHALE 2 1948	19 29 45.01687	155 53 44.92574	73380.783	458450.207	HI 1	-0 07 55.56	0.9999880	694.	24.70
191543410002	MALAMA KI USGS 1978	19 26 27.84883	154 51 49.48261	67393.771	566812.911	HI 1	0 12 42.40	1.0000218	30.	16.48
191553330006	MAN 1979	19 04 23.45831	155 53 59.08517	26596.381	457929.520	HI 1	-0 07 50.26	0.9999885	11.	18.80
191551120013	MANGO 1912	19 51 58.08398	155 06 19.24389	114371.832	541333.116	HI 1	0 08 2.81	0.9999878	80 SC	17.20
191551140021	MANOWAEOPAE 3 1913	19 59 3.84359	155 13 54.11183	127437.995	528078.959	HI 1	0 05 30.11	0.9999764	105 SC	19.24
191553320004	MANUKA 1948	19 05 42.17751	155 48 35.12465	28997.630	467404.603	HI 1	-0 06 4.80	0.9999798	560.	19.16
191552340017	MAUKA 1250 USGS	19 14 30.64032	155 23 37.42473	45221.043	511172.845	HI 1	0 02 6.08	0.9999682	433.	21.22
201553310006	MAULILI HITS 1948	20 12 34.92134	155 47 7.30392	152382.230	470178.321	HI 1	-0 05 54.89	0.9999777	296.	21.07
191551430007	MAUNA KEA 1892	19 49 31.05916	155 28 8.25890	109802.796	503251.621	HI 1	0 00 37.90	0.9999668	4177 SC	23.61
191551430022	MAUNA KEA U OF HAWAII OBS DOME	19 49 22.77934	155 28 9.95223	109548.187	503202.392	HI 1	0 00 37.32	0.9999668		23.63
191551430009	MAUNA KEA-WAIAU LAT STA 1892	19 48 40.08658	155 28 37.33637	108235.278	502405.692	HI 1	0 00 28.02	0.9999667	3973 SC	23.71
191551310001	MAWAI	19 40 15.27252	155 20 47.78848	92719.697	516084.609	HI 1	0 03 5.88	0.9999699	1677 SC	22.98
191553410001	MC CANDLESS 1948	19 23 30.91644	155 51 52.66517	61870.413	461699.310	HI 1	-0 07 15.85	0.9999848	526.	24.01
191551210044	MILL TALLEST OF 3 STACKS	19 44 16.37183	155 05 24.24612	100177.958	542967.563	HI 1	0 08 18.40	0.9999895		
191553340001	MILOLII 1884	19 11 11.09888	155 53 12.22435	39127.342	459327.199	HI 1	-0 07 37.55	0.9999871	285.	20.45
191553340012	MILOLII PT LIGHT 1979	19 11 13.13453	155 54 28.76460	39195.031	457091.250	HI 1	-0 08 2.72	0.9999894	15 SC	20.44

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NAD 83 GEODETIC AND STATE PLANE COORDINATES

QIDQSN	STATION NAME	LATITUDE (NORTH)	LONGITUDE (WEST)	NORTHING METERS*	EASTING METERS*	ZONE	CONVERGENCE	SCALE FACTOR	ELEV. GEOID (M)	HT (M)
191543440012	MOANA HAUAE USGS 1978	19 22 20.54268	154 57 2.83630	59757.819	557696.571	HI 1	0 10 55.86	1.0000078	23.	17.39
191554340010	MOANUIAHEA 1948	19 44 19.56883	155 57 12.02209	100287.842	452482.775	HI 1	-0 09 11.20	0.9999946	983.	24.51
191554340012	MOANUIAHEA 1948 RM 3 1972	19 44 18.70436	155 57 10.36248	100261.130	452531.026	HI 1	-0 09 10.63	0.9999945	980.	24.51
191551210026	MOKUOLA 1878	19 43 49.08107	155 04 7.02361	99344.344	545218.114	HI 1	0 08 44.28	0.9999919	2 SC	17.61
191551210025	MOKUOLA 2 1951	19 43 49.28286	155 04 6.78760	99350.567	545224.970	HI 1	0 08 44.36	0.9999919	2.	17.61
191553420003	MOUNTAIN 1948	19 19 38.34248	155 49 10.64897	54709.775	466413.404	HI 1	-0 06 20.83	0.9999806	1420.	23.09
191553320005	NA PUU A PELE 1891	19 01 37.46975	155 51 11.23105	21482.129	462826.384	HI 1	-0 06 54.45	0.9999837	75.	18.53
191553320007	NA PUU A PELE 1891 RM 3	19 01 37.44576	155 51 11.04997	21481.380	462831.678	HI 1	-0 06 54.39	0.9999837	76 SC	18.53
191552310001	NALI USGS	19 12 39.33930	155 21 58.12532	41800.807	514075.452	HI 1	0 02 38.56	0.9999691	95.	20.35
191552310002	NALI USGS PRE	19 12 39.31867	155 21 58.16548	41800.172	514074.280	HI 1	0 02 38.55	0.9999691	95.	20.35
191553310004	NAMANUIKEHAU	19 12 32.79944	155 46 11.63971	41616.307	471618.246	HI 1	-0 05 19.69	0.9999766	1721 SC	21.01
191553340003	NAPOHAKULOLOA 1913	19 13 51.65646	155 54 1.05236	44067.396	457912.055	HI 1	-0 07 54.66	0.9999886	39.	21.26
191553440019	NAPOOPOO KAHIKOLU CHURCH SPIRE	19 28 10.31596	155 54 55.75845	70473.703	456377.707	HI 1	-0 08 18.55	0.9999902		
191553440027	NAPOOPOO LIGHT	19 28 45.00701	155 56 11.55731	71545.899	454169.786	HI 1	-0 08 44.07	0.9999926		
191553440010	NAPOOPOO SCHOOL FLAGPOLE	19 28 13.42340	155 53 57.82035	70565.248	458067.657	HI 1	-0 07 59.26	0.9999884		
191554240001	NAPUKALUA	19 44 44.41661	155 37 49.55303	100993.661	486329.393	HI 1	-0 02 38.64	0.9999690	1756 SC	
191554430002	NAWAI 1928	19 51 7.90981	155 56 47.69664	112842.524	453224.181	HI 1	-0 09 5.98	0.9999937	18 SC	24.39
201552330014	NEW 1932	20 05 49.62316	155 27 21.05009	139893.984	504617.463	HI 1	0 00 54.62	0.9999669	68 SC	22.18
201553240004	NIULII 1913	20 12 58.95875	155 44 43.45798	153114.726	474355.150	HI 1	-0 05 5.30	0.9999748	121.	20.70
201553240003	NIULII STACK	20 13 24.38353	155 44 32.73132	153896.109	474667.666	HI 1	-0 05 1.69	0.9999746		
191553340006	NIUOU 1948	19 07 38.33259	155 54 58.94534	32592.399	456193.782	HI 1	-0 08 11.16	0.9999904	11.	19.45
191554140006	NOHONAQHAHAE 1873	19 55 10.49312	155 41 1.61368	120250.512	480758.661	HI 1	-0 03 45.41	0.9999712	991.	23.64
191551420003	NORTH BASE 1	19 45 40.62519	155 21 57.52582	102722.333	514045.428	HI 1	0 02 43.13	0.9999691	2061 SC	22.81
191551340005	NORTH BASE 92	19 42 4.33760	155 27 41.04472	96066.560	504046.672	HI 1	0 00 46.84	0.9999669	2347 SC	24.22
191552410009	NORTH RIM 1920	19 24 54.35117	155 17 16.73184	64409.104	522267.258	HI 1	0 04 13.72	0.9999728	1191.70	22.05
181554140015	NORTH TELEMETRY BORESIGHT POLE	18 56 32.57308	155 41 3.78591	12080.353	480579.684	HI 1	-0 03 35.48	0.9999713		18.47
191552410013	NOSE 1920	19 23 1.31704	155 18 6.74689	60931.766	520812.128	HI 1	0 03 56.72	0.9999720	1082.25	22.00
201553310013	NUNULU 1913	20 12 13.89445	155 49 16.43833	151742.482	466428.388	HI 1	-0 06 39.39	0.9999806	489 SC	21.37
201553310014	NUNULU 2 1948	20 12 14.43981	155 49 16.77983	151759.272	466418.507	HI 1	-0 06 39.51	0.9999806	488.	21.37
191552410001	OBSERVATORY USGS	19 25 44.00706	155 15 31.09961	65939.996	525346.803	HI 1	0 04 49.03	0.9999746	1212.98	21.59
191552410017	OHAIKEA HTS 1949	19 25 30.38652	155 20 35.78268	65510.917	516459.213	HI 1	0 03 7.64	0.9999700	1308.	23.14
191552410021	OHAIKEA HTS 1949 PRE	19 25 30.38660	155 20 35.78658	65510.920	516459.100	HI 1	0 03 7.64	0.9999700	1308.	23.14
191552420004	OHAIKEA HTS 1897	19 21 2.85973	155 16 35.07856	57292.686	523491.657	HI 1	0 04 26.71	0.9999735	1011.	21.11
191553340005	OHEPUUPUU 1890	19 08 4.77302	155 54 42.38581	33404.239	456679.650	HI 1	-0 08 5.92	0.9999899	32.	19.57
191553310006	OHIALELE	19 13 55.12923	155 46 27.62305	44148.496	471155.358	HI 1	-0 05 25.32	0.9999769		
191551220002	OLAA HGS 1896	19 35 58.56644	155 03 19.96464	84879.681	546626.124	HI 1	0 08 56.73	0.9999935	205.	18.27
191551210048	OLAA STACK	19 37 51.73876	155 01 51.45000	88366.587	549195.981	HI 1	0 09 27.30	0.9999966	65 SC	17.95
191551210047	OLAA SUGAR CO STACK	19 37 51.73923	155 01 51.54620	88366.594	549193.178	HI 1	0 09 27.27	0.9999966		
191551210005	OLAA SUGAR CO WATER TANK	19 37 52.54558	155 01 55.71765	88391.055	549071.572	HI 1	0 09 25.87	0.9999964		
191553230002	OLOKUANNA	19 04 1.19668	155 40 46.63369	25873.624	481095.588	HI 1	-0 03 31.24	0.9999711		
191551340008	OMAKOILI 1891	19 42 42.78722	155 29 45.92247	97248.398	500409.940	HI 1	0 00 4.75	0.9999667	2162.	24.27
191551120010	ONOMEA ARCH	19 48 38.37216	155 05 26.61542	108234.301	542879.109	HI 1	0 08 19.36	0.9999894		
191554330002	ONOU LI	19 30 23.04866	155 55 4.16355	74555.702	456142.506	HI 1	-0 08 22.27	0.9999904	475.0	24.69
201552320004	OOKALA STACK	20 01 0.78784	155 17 1.97305	131026.179	522613.056	HI 1	0 04 26.32	0.9999730		
201552330001	OPIHILALA 1881	20 02 29.80670	155 22 26.00468	133753.911	513193.121	HI 1	0 02 35.59	0.9999688	254.	21.90

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NAD 83 GEODETIC AND STATE PLANE COORDINATES

QIDQSN	STATION NAME	LATITUDE (NORTH)	LONGITUDE (WEST)	NORTHING METERS*	EASTING METERS*	ZONE	CONVERGENCE	SCALE FACTOR	ELEV. GEOID (M)	HT (M)
201552330011	PAAUHAU 1877	20 03 49.45940	155 26 38.88136	136199.260	505843.694	HI 1	0 01 9.00	0.9999671	413.	22.56
201552330010	PAAUHAU SUGAR CO STACK	20 05 13.87906	155 26 6.03501	138795.548	506797.065	HI 1	0 01 20.36	0.9999672		
201552320010	PAAUILO STACK	20 03 4.13068	155 21 37.64788	134810.503	514597.493	HI 1	0 02 52.24	0.9999693		
191554410002	PACK 1928	19 58 19.87960	155 49 16.22257	126095.809	466385.274	HI 1	-0 06 34.93	0.9999806	71 SC	24.03
191552340010	PAHALA HAWAIIAN AG CO MILL STK	19 11 49.57796	155 28 37.56468	40265.521	502408.117	HI 1	0 00 27.11	0.9999667		
191552340009	PAHALA HAWAIIAN AG CO STACK	19 11 49.52281	155 28 36.35324	40263.830	502443.506	HI 1	0 00 27.50	0.9999667		
191552340014	PAHALA KAU SUGAR CO STACK	19 11 49.64723	155 28 34.26109	40267.664	502504.622	HI 1	0 00 28.19	0.9999667		
191552340012	PAHALA WEST BASE HITS 1949	19 09 33.77564	155 29 13.09009	36089.850	501370.653	HI 1	0 00 15.40	0.9999667	37.	20.42
191552340013	PAHALA WEST BASE RM 3	19 09 35.33394	155 29 18.19308	36137.753	501221.547	HI 1	0 00 13.72	0.9999667	41.	20.43
191544330006	PAHOA HVO161 USGS	19 30 17.02490	154 57 9.57156	74408.710	557453.440	HI 1	0 10 57.91	1.0000075	188.	18.06
191543440005	PAHOA STACK	19 29 35.33892	154 56 43.17271	73129.356	558227.335	HI 1	0 11 6.35	1.0000086		
191553430004	PAHOEHOE	19 20 13.13371	155 52 47.59987	55792.344	460083.048	HI 1	-0 07 32.85	0.9999864	216.0	23.20
181554140002	PALAHOMO 1898	18 55 43.61096	155 39 30.21292	10572.274	483315.995	HI 1	-0 03 4.97	0.9999701	54.	18.36
191553440024	PALEMANO 1928	19 27 31.94373	155 55 39.17399	69296.900	455108.584	HI 1	-0 08 32.75	0.9999916	3.	24.58
191553440023	PALEMANO 2 1968	19 27 32.27968	155 55 38.23747	69307.162	455135.924	HI 1	-0 08 32.44	0.9999915	3 SC	24.59
191552410014	PALI 1920	19 24 6.77632	155 18 10.01925	62944.414	520714.343	HI 1	0 03 55.85	0.9999720	1142.20	22.21
191553440009	PALIANIHI 1884	19 22 48.50728	155 53 50.46093	60573.978	458259.245	HI 1	-0 07 54.68	0.9999882	44 SC	23.84
191553430011	PAM 1972	19 20 24.38641	155 52 23.12543	56136.793	460798.152	HI 1	-0 07 24.82	0.9999857	334.	23.25
191551210062	PANAWEA HIGS 1977	19 40 24.96433	155 03 51.52802	93068.942	545685.398	HI 1	0 08 48.05	0.9999925	67.	17.94
191551140020	PAPAALOA 1877	19 58 4.77320	155 13 42.06262	125622.123	528432.181	HI 1	0 05 33.96	0.9999767	281.	19.18
191551120008	PAPAIKOU STACK	19 46 43.62465	155 05 22.28050	104706.113	543013.828	HI 1	0 08 20.05	0.9999895		
191551120025	PAPAIKOU SUGAR CO STACK	19 46 42.98731	155 05 21.47188	104686.572	543037.413	HI 1	0 08 20.32	0.9999896		
191551440006	PAPALEKOKI 1877	19 52 26.82571	155 28 56.28039	115207.354	501853.648	HI 1	-0 00 21.66	0.9999667	3427 SC	23.44
191551440009	PAPALEKOKI 2 1948	19 52 26.93718	155 28 56.35676	115210.782	501851.426	HI 1	0 00 21.64	0.9999667	3427.	23.44
191551440008	PAPALEKOKI 2 ECC 1948	19 52 26.84358	155 28 56.29877	115207.904	501853.114	HI 1	0 00 21.66	0.9999667	3429.	23.44
191543440017	PAPAYA RESET USGS	19 26 5.70569	154 53 24.64124	66702.831	564039.523	HI 1	0 12 10.50	1.0000173	63.	16.99
191543440022	PAPAYA RESET USGS PRE	19 26 5.77509	154 53 24.76308	66704.953	564035.961	HI 1	0 12 10.46	1.0000173	63.	16.99
191554140004	PARKER RANCH TANK A	19 59 24.84070	155 40 11.26908	128070.190	482230.719	HI 1	-0 03 28.97	0.9999706		
191554140003	PARKER RANCH TANK C	19 56 18.06470	155 40 7.02807	122326.677	482348.232	HI 1	-0 03 27.00	0.9999705		
191554140007	PARKER RANCH TANK D	19 57 17.17845	155 41 39.39216	124147.332	479664.472	HI 1	-0 03 58.69	0.9999718		
201552330012	PAUHAU CHURCH	20 04 3.10251	155 26 50.23166	136618.684	505513.767	HI 1	0 01 5.11	0.9999670		
191551120019	PAUKAA LIGHTHOUSE	19 45 43.85280	155 05 23.20720	102868.064	542991.304	HI 1	0 08 19.34	0.9999895		
191551120009	PAUKAA POINT LIGHT	19 45 43.99110	155 05 23.05297	102872.327	542995.784	HI 1	0 08 19.39	0.9999895		
191551120026	PAUKAA POINT LIGHT NEW	19 45 43.96291	155 05 23.05879	102871.460	542995.617	HI 1	0 08 19.39	0.9999895	6 SC	17.63
191553220007	PEAK 2 HITS 1949	19 04 50.89879	155 34 20.64006	27393.709	492380.796	HI 1	-0 01 25.20	0.9999674	400.	19.35
191551430012	PEAK A POLIAHU	19 49 15.29052	155 28 52.86844	109317.727	501953.555	HI 1	0 00 22.76	0.9999667	4155 SC	23.68
191551430008	PEAK B	19 48 48.49928	155 28 24.31502	108494.020	502784.601	HI 1	0 00 32.43	0.9999668	4132.00	23.69
191551120018	PEPEKEO POINT LIGHT	19 50 50.07674	155 04 57.55411	112286.312	543714.869	HI 1	0 08 30.11	0.9999903		
191551120024	PEPEKEO RAD STA KIPA MAST	19 50 51.84830	155 04 59.38646	112340.656	543661.420	HI 1	0 08 29.50	0.9999902		
191551120003	PEPEKEO STACK	19 50 33.12969	155 05 8.34737	111764.412	543402.105	HI 1	0 08 26.33	0.9999899		
191552420009	PEPEIAU USGS	19 15 49.96719	155 21 18.87159	47663.083	515217.168	HI 1	0 02 51.93	0.9999695	507.	21.10
191552130005	PILAU 3 USGS	19 19 5.02174	155 11 14.96682	53683.856	532840.733	HI 1	0 06 12.18	0.9999800	658.	19.03
191552340005	PILI	19 08 51.06442	155 27 26.57231	34777.092	504483.301	HI 1	0 00 50.32	0.9999669	19 SC	20.15
191551120007	PIPE	19 46 43.60165	155 05 22.27659	104705.406	543013.944	HI 1	0 08 20.05	0.9999895		
191551140002	PIPE	19 54 0.82382	155 07 33.23210	118141.208	539172.220	HI 1	0 07 38.42	0.9999856		

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* For conversion of meters to International Feet multiply the meters by 100.0/30.48 which is 3.28083989501 to 12 significant figures

NAD 83 GEODETIC AND STATE PLANE COORDINATES

QIDQSN	STATION NAME	LATITUDE (NORTH)	LONGITUDE (WEST)	NORTHING METERS*	EASTING METERS*	ZONE	CONVERGENCE	SCALE FACTOR	ELEV.GEIOD (M)	HT(M)
191551210076	PLATFORM BOLLARD	19 44 5.00281	155 03 22.05002	99837.314	546526.353	HI 1	0 08 59.58	0.9999934	3.	17.46
191553320006	PO 1979	19 00 17.94905	155 47 42.78777	19025.850	468917.670	HI 1	-0 05 46.10	0.9999786	17.	18.56
201552330002	POHAKUHAKU 1913	20 03 47.66720	155 22 54.68152	136147.543	512358.078	HI 1	0 02 25.91	0.9999686	63 SC	21.82
191543410001	POHOIKI 1914	19 28 32.95092	154 49 24.31832	71256.806	571032.276	HI 1	0 13 32.11	1.0000290	6.66	15.63
201561210003	POHUE 1950	20 41 43.07437	155 59 56.29319	40215.341	569559.436	HI 2	0 14 9.50	1.0000264	9.	14.94
191554330019	POINT 1928	19 33 31.43197	155 57 58.17278	80361.437	451084.525	HI 1	-0 09 21.82	0.9999962	10.	24.66
191551430020	POINT E 1978	19 49 21.91396	155 28 10.06577	109521.576	503199.093	HI 1	0 00 37.28	0.9999668	4202.	23.63
201553420010	PRIMARY POINT 2 1977	20 15 57.43868	155 51 28.94489	158624.665	462596.520	HI 1	-0 07 26.47	0.9999840	25.	20.26
201553420009	PRIMARY POINT 2 RM 5	20 15 54.52627	155 51 44.38155	158536.079	462148.368	HI 1	-0 07 31.80	0.9999844	28.	20.30
191554410004	PUAKO 1873	19 58 34.51498	155 49 49.21825	126547.717	465426.873	HI 1	-0 06 46.28	0.9999814	17.	24.06
191554410003	PUAKO NEW 1948	19 58 25.32454	155 49 22.73693	126263.607	466196.204	HI 1	-0 06 37.18	0.9999808	62.	24.03
191553420001	PUALEHUA	19 15 15.61436	155 47 13.90114	46625.425	469807.833	HI 1	-0 05 40.94	0.9999779	1840.0	21.82
191553440030	PUIWA 1972	19 22 29.81894	155 53 42.71191	59998.818	458484.049	HI 1	-0 07 51.99	0.9999880	32.	23.76
191553440011	PUKAANA CHURCH SPIRE	19 22 55.67557	155 54 1.62480	60795.145	457933.991	HI 1	-0 07 58.43	0.9999885		
191552120002	PULAMA 1914	19 21 9.40537	155 02 24.75720	57542.996	548308.087	HI 1	0 09 8.53	0.9999955	202.	17.55
191552340011	PUN 1930	19 08 15.76466	155 29 11.85943	33691.228	501406.796	HI 1	0 00 15.78	0.9999667	9 SC	20.09
191553210003	PUNALUU 1949	19 08 59.54147	155 30 39.67611	35037.228	498840.643	HI 1	-0 00 13.02	0.9999667	118.	20.28
191552120004	PUNAU 1914	19 19 10.38965	155 06 21.27422	53866.400	541413.605	HI 1	0 07 49.37	0.9999879	341.	17.80
191554110001	PUNOHU 1876	19 58 29.60353	155 31 1.04632	126362.730	498225.245	HI 1	-0 00 20.85	0.9999667	1318 SC	23.21
191553420004	PUU AHINUI 1890.	19 14 53.58482	155 49 52.82943	45956.322	465165.451	HI 1	-0 06 33.23	0.9999817	1210.	21.65
201553310010	PUU AIEA HITS 1948	20 07 24.85196	155 48 3.84644	142850.166	468519.859	HI 1	-0 06 12.90	0.9999789	933.	22.80
191553210006	PUU ENUHE 1894	19 10 34.67310	155 32 11.96671	37962.639	496144.478	HI 1	-0 00 43.35	0.9999669	712 SC	20.69
191554410001	PUU HINAI 1938	19 54 6.61368	155 46 40.42135	118299.736	470902.014	HI 1	-0 05 40.56	0.9999771	439.	23.97
191553310003	PUU HOOMAHA 1890	19 14 16.75729	155 45 43.75439	44811.535	472437.601	HI 1	-0 05 10.96	0.9999761	2026 SC	21.55
181554140012	PUU HOU	18 57 41.02222	155 42 57.13827	14188.705	477265.909	HI 1	-0 04 12.52	0.9999731	49.0	18.58
191552130002	PUU HULUHULU HGS 1891	19 22 17.33035	155 12 19.48723	59593.708	530947.240	HI 1	0 05 51.77	0.9999785	1049.39	20.02
191554110002	PUU IO 1876	19 58 54.39431	155 33 53.62923	127126.274	493208.161	HI 1	-0 01 19.84	0.9999672	1239.	23.26
191554130002	PUU KA PELE	19 46 1.74206	155 38 9.10527	103371.818	485762.053	HI 1	-0 02 45.41	0.9999692	1758 SC	
201553320004	PUU KAMALII	20 02 57.94943	155 49 16.11414	134646.611	466404.827	HI 1	-0 06 36.36	0.9999806		
201553320005	PUU KAMALII 2	20 02 57.98751	155 49 16.20613	134647.787	466402.156	HI 1	-0 06 36.39	0.9999806	210.	23.81
191552420001	PUU KAPUKAPU 1914	19 16 32.49638	155 15 34.44989	48981.919	525272.652	HI 1	0 04 45.73	0.9999746	319.	19.71
191552420018	PUU KAPUKAPU 1914 PRE	19 16 32.53928	155 15 34.46667	48983.237	525272.160	HI 1	0 04 45.73	0.9999746	319.	19.71
191554130001	PUU KEA	19 45 37.20726	155 37 27.72707	102616.463	486966.028	HI 1	-0 02 31.37	0.9999688	1746.0	24.09
201553310015	PUU KEHENA HITS 1948	20 09 12.10190	155 49 19.85159	146152.342	466318.456	HI 1	-0 06 39.61	0.9999807	768.	22.37
191553320003	PUU KI HIGS 1914	19 00 17.43969	155 47 34.40173	19009.779	469162.904	HI 1	-0 05 43.37	0.9999784	45.	18.57
191554420001	PUU KUAINIHO 1948	19 50 11.75501	155 46 8.64945	111076.336	471814.602	HI 1	-0 05 28.70	0.9999765	828.	24.08
191544320005	PUU KUKAE HVO156 USGS	19 30 38.83471	154 49 57.02979	75124.010	570063.222	HI 1	0 13 22.59	1.0000273	69.	15.87
201553310002	PUU LAPALAPA HITS 1948	20 11 39.16784	155 45 35.54197	150663.369	472839.414	HI 1	-0 05 22.95	0.9999758	397.	21.26
201552330013	PUU LIOLIO	20 03 4.12046	155 26 50.84822	134804.958	505496.423	HI 1	0 01 4.85	0.9999670	585.0	22.72
201553320001	PUU LOA 1876	20 04 27.59319	155 45 0.95438	137390.535	473823.610	HI 1	-0 05 9.24	0.9999751	1256.	23.30
191554330013	PUU LOA 2	19 33 16.11009	155 56 35.17129	79883.872	453502.676	HI 1	-0 08 53.92	0.9999934	308.0	24.67
201553220006	PUU MAUU NORTH HITS 1948	20 05 54.25457	155 34 20.60877	140037.434	492429.428	HI 1	-0 01 29.55	0.9999674	497.	22.38
191553340008	PUU NAHAHA 1884	19 09 18.98148	155 53 18.21327	35680.356	459144.561	HI 1	-0 07 38.80	0.9999873	235.	19.91
191553340007	PUU NAHAHA 2 1948	19 09 18.97978	155 53 18.21187	35680.304	459144.602	HI 1	-0 07 38.80	0.9999873	235.	19.91
191553340011	PUU NAHAHA 2 1948 RM 3	19 09 19.16186	155 53 17.36571	35685.848	459169.340	HI 1	-0 07 38.52	0.9999873	232.	19.91

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NAD 83 GEODETIC AND STATE PLANE COORDINATES

QIDQSN	STATION NAME	LATITUDE (NORTH)	LONGITUDE (WEST)	NORTHING METERS*	EASTING METERS*	ZONE	CONVERGENCE	SCALE FACTOR	ELEV. GEOID (M)	HT (M)
191552340015	PUU NAHAHA USGS	19 14 0.69801	155 25 51.48897	44298.416	507257.956	HI 1	0 01 21.86	0.9999673	473.	21.43
201554430004	PUU O KAHULA HIGS 1950	20 45 18.32545	155 59 43.34905	46836.787	569906.582	HI 2	0 14 16.43	1.0000270	167.	13.53
191553320001	PUU O KAMAOA HITS 1948	19 04 44.01462	155 45 31.90350	27200.584	472757.597	HI 1	-0 05 4.61	0.9999758	612.	19.06
191553240003	PUU O KEOKEO 1890	19 12 49.19457	155 44 30.66750	42116.086	474568.375	HI 1	-0 04 46.53	0.9999747	2097 SC	21.13
201553310019	PUU O NALE 1881	20 12 2.06687	155 50 36.70337	151383.437	464097.506	HI 1	-0 07 7.05	0.9999826	542.	21.55
201553310018	PUU O NALE EAST SLOPE 1960	20 12 1.91105	155 50 32.43306	151378.389	464221.468	HI 1	-0 07 5.57	0.9999825	532.	21.54
201553310020	PUU O NALE WEST SLOPE 1960	20 12 2.08815	155 50 37.77150	151384.155	464066.498	HI 1	-0 07 7.42	0.9999826	534.	21.55
191551140015	PUU OHAI 1877	19 56 32.69143	155 11 21.71502	122797.657	532517.862	HI 1	0 06 21.42	0.9999797	225.	18.41
191554330016	PUU OHAI 1883	19 30 41.64679	155 57 10.80638	75136.950	452451.383	HI 1	-0 09 4.69	0.9999946	71.	24.68
191553310002	PUU OHOHIA	19 10 59.08703	155 45 42.68259	38733.577	472459.763	HI 1	-0 05 9.76	0.9999760		
191551340002	PUU OO 1891	19 43 43.74905	155 23 36.89853	99126.418	511154.816	HI 1	0 02 9.32	0.9999682	2109.	23.41
191554140008	PUU PA 1873	19 59 23.51419	155 42 14.86918	128033.408	478637.666	HI 1	-0 04 11.22	0.9999723	813.	23.63
191554420004	PUU PANINI HITS 1948	19 49 4.62494	155 51 1.28837	109027.705	463295.150	HI 1	-0 07 7.62	0.9999833	691.	24.30
201553320011	PUU PILI 1881	20 06 53.63394	155 45 47.96595	141883.498	472464.816	HI 1	-0 05 26.01	0.9999760	1436.	22.79
201553320002	PUU PILI USGS 1881	20 06 53.64263	155 45 47.97930	141883.766	472464.429	HI 1	-0 05 26.02	0.9999760	1436.	22.79
191552340003	PUU ULA	19 12 13.60354	155 25 50.42391	41005.539	507290.373	HI 1	0 01 22.09	0.9999673	304.0	20.91
201553310022	PUU ULA HTS 1913	20 13 48.11809	155 51 41.60059	154648.662	462220.580	HI 1	-0 07 30.09	0.9999843	290.	21.02
191551330001	PUU ULAULA	19 31 48.25093	155 27 49.77014	77122.548	503796.585	HI 1	0 00 43.54	0.9999668	3077 SC	24.87
191551330003	PUU ULAULA 2 HTS 1949	19 31 48.36366	155 27 49.96709	77126.013	503790.843	HI 1	0 00 43.47	0.9999668	3077.	24.87
191552340002	PUU ULAULA HTS 1914	19 12 13.60497	155 25 50.43478	41005.582	507290.056	HI 1	0 01 22.09	0.9999673	305.	20.91
191554420003	PUU WAAWAA WEST 1948	19 46 9.96884	155 50 4.92499	103653.730	464924.775	HI 1	-0 06 47.55	0.9999819	1210.	24.36
201561210001	PUUWIKI 1878	20 42 6.55460	155 59 52.76642	40937.878	569658.519	HI 2	0 14 11.00	1.0000266	47.	14.79
201561210002	PUUWIKI CATHOLIC CHURCH SPIRE	20 42 7.60349	155 59 55.17627	40969.848	569588.650	HI 2	0 14 10.16	1.0000265		
201553230006	PUUKI	20 01 54.72518	155 40 8.03202	132679.089	482329.468	HI 1	-0 03 28.28	0.9999705	976.0	
201553340013	RAIL 1910	20 11 36.07345	155 54 6.79658	150597.802	457996.324	HI 1	-0 08 19.43	0.9999885	41 SC	21.92
191551430003	RED HILL HGS 1877	19 50 55.42968	155 25 14.94642	112398.804	508293.731	HI 1	0 01 36.79	0.9999675	3617.	23.12
201553340004	RED TANK	20 11 12.51259	155 53 52.09233	149872.245	458421.490	HI 1	-0 08 14.20	0.9999880		
191551210027	REEF	19 43 55.26646	155 04 8.44384	99534.439	545176.278	HI 1	0 08 43.85	0.9999919	2 SC	17.60
191551410002	RIDGE	19 59 24.78820	155 15 49.13543	128077.015	524734.229	HI 1	0 04 50.88	0.9999742	305 SC	19.93
201553340002	RIDGE 1910	20 10 19.17701	155 53 32.60791	148230.758	458983.321	HI 1	-0 08 7.13	0.9999875	93.	22.30
191551430014	RM T 1977	19 49 22.00757	155 28 9.54193	109524.457	503214.336	HI 1	0 00 37.46	0.9999668	4202.	23.63
181554140004	ROAD TANK	18 58 13.04106	155 40 11.79004	15167.889	482103.902	HI 1	-0 03 18.88	0.9999706		
191551210075	ROCK	19 44 3.45480	155 03 15.02458	99790.249	546731.036	HI 1	0 09 1.94	0.9999936	3.	17.45
191543410004	ROCK HVO154 USGS	19 29 14.88109	154 51 33.40943	72531.724	567262.631	HI 1	0 12 49.51	1.0000226	78.	16.51
191553310011	S MOWAE	19 09 35.65135	155 52 8.06748	36188.474	461195.310	HI 1	-0 07 15.88	0.9999853		
191553310005	SA ULA	19 14 13.05302	155 46 13.29956	44698.958	471574.550	HI 1	-0 05 20.68	0.9999767	1931 SC	21.52
191544330002	SAND HILL 1914	19 33 12.95835	154 52 24.04848	79847.142	565759.140	HI 1	0 12 35.07	1.0000201	35 SC	16.74
191552410011	SAND HILL 1920	19 23 34.57646	155 17 29.27719	61955.722	521904.231	HI 1	0 04 9.27	0.9999726	1127.75	21.90
191552410018	SAND HILL USGS 1977	19 23 34.51591	155 17 29.21031	61953.863	521906.184	HI 1	0 04 9.30	0.9999726	1121.66	21.90
191552410026	SAND HILL USGS 1977 PRE	19 23 34.58089	155 17 29.25930	61955.859	521904.752	HI 1	0 04 9.28	0.9999726	1121.66	21.90
191551120012	SCHOOL	19 49 50.70170	155 05 46.54538	110457.049	542293.776	HI 1	0 08 13.08	0.9999888		
191551430005	SEPEAMOA	19 45 13.83722	155 27 32.20175	101893.588	504302.789	HI 1	0 00 49.95	0.9999669	2101 SC	23.93
191554330018	SIGNAL 1928	19 33 53.23498	155 57 57.05672	81031.779	451118.881	HI 1	-0 09 21.61	0.9999962	4 SC	24.66
191551140019	SMOKE	19 58 27.77329	155 12 55.82622	126331.612	529775.249	HI 1	0 05 49.86	0.9999776		
191551430010	SOUTH AZIMUTH STATION	19 48 37.03473	155 28 37.33508	108141.435	502405.742	HI 1	0 00 28.02	0.9999667	3984.00	23.72

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* For conversion of meters to International Feet multiply the meters by 100.0/30.48 which is 3.28083989501 to 12 significant figures

NAD 83 GEODETIC AND STATE PLANE COORDINATES

QIDQSN	STATION NAME	LATITUDE (NORTH)	LONGITUDE (WEST)	NORTHING METERS*	EASTING METERS*	ZONE	CONVERGENCE	SCALE FACTOR	ELEV. GEOID (M)	HT (M)
191551420004	SOUTH BASE 1	19 45 31.02819	155 22 5.24823	102427.055	513820.849	HI 1	0 02 40.49	0.9999690	2071 SC	22.86
191551340007	SOUTH BASE 92	19 41 36.48233	155 27 54.09550	95209.952	503666.782	HI 1	0 00 42.43	0.9999668	2315 SC	24.28
191552410010	SOUTH RIM 1920	19 24 37.01634	155 17 27.21785	63875.714	521961.990	HI 1	0 04 10.17	0.9999726	1162.39	22.07
181554140007	SOUTH TELEMETRY BORESIGHT TWR	18 54 49.88105	155 40 54.77167	8922.643	480840.162	HI 1	-0 03 32.24	0.9999712	12.77	18.13
191552410007	SPIT 1920	19 23 54.57322	155 16 52.47271	62571.918	522977.318	HI 1	0 04 21.57	0.9999732	1111.73	21.77
191554340002	SQUARE	19 37 59.71452	155 56 52.98641	88605.919	453006.248	HI 1	-0 09 1.97	0.9999940	45.	17.79
191551210011	STAKE 88 1949	19 40 48.53464	155 03 4.75677	93797.263	547045.830	HI 1	0 09 3.97	0.9999940		
191551210033	STAND	19 43 19.72111	155 04 39.57940	98439.145	544272.418	HI 1	0 08 33.09	0.9999909	153 SC	17.59
191551140004	STATION 8	19 53 17.02082	155 08 11.32095	116791.826	538067.261	HI 1	0 07 25.20	0.9999846		
191551120022	STEEPLE CATHOLIC CHURCH	19 48 1.19339	155 05 34.49773	107090.496	542652.463	HI 1	0 08 16.44	0.9999891	194.	19.16
191553220008	STEIN 2 HITS 1938	19 03 38.08198	155 34 35.31768	25154.991	491950.754	HI 1	-0 01 29.91	0.9999675	2030.64	24.12
191552440001	STRIP	19 29 33.27576	155 23 6.53510	72975.897	512056.507	HI 1	0 02 17.97	0.9999685	4205 SC	23.63
191551430006	SUMMIT	19 49 14.53651	155 28 5.28613	109294.748	503338.224	HI 1	0 00 38.90	0.9999668	4208.	23.63
191551430013	SUMMIT USGS 1977	19 49 14.37092	155 28 5.06604	109289.658	503344.629	HI 1	0 00 38.97	0.9999668	353.	18.13
191543440020	TANGERINE HVO148 USGS	19 27 38.73151	154 58 15.49821	69535.252	555546.108	HI 1	0 10 34.52	1.0000048		
181554140003	TANK	18 56 54.70872	155 40 0.44092	12759.107	482433.609	HI 1	-0 03 14.97	0.9999705	6 SC	24.66
191554330017	TARGET 1928	19 33 17.37161	155 57 56.71807	79928.973	451125.751	HI 1	-0 09 21.22	0.9999668	4202.	23.63
191551430021	TELECOM 1978	19 49 22.12579	155 28 10.18074	109528.089	503195.746	HI 1	0 00 37.24	0.9999890	96 SC	18.44
191551120011	TEMPLE	19 47 26.74523	155 05 39.26410	106030.880	542516.280	HI 1	0 08 14.59	0.9999712		
181554140023	TLM-18 RADAR 357901 USA 1961	18 56 21.42950	155 40 56.58273	11737.506	480790.073	HI 1	-0 03 33.11	0.9999862	446.	18.45
191553440002	TOBACCO	19 24 57.19267	155 52 41.69129	64526.370	460274.638	HI 1	-0 07 32.66	0.9999799	71 SC	21.84
191551140013	TOLEDO 1949	19 54 51.65069	155 11 13.90152	119691.048	532750.849	HI 1	0 06 23.57	0.9999671	7.	18.85
201553210002	U S L H 1913	20 07 39.63699	155 33 27.91523	143277.406	493961.276	HI 1	-0 01 11.55	0.9999892	239.	18.66
191553330007	UKA 1979	19 04 44.20733	155 54 21.18002	27235.848	457285.064	HI 1	-0 07 57.62	0.9999715		
181554140011	UMIS AHU 1887	18 58 7.57964	155 41 12.61594	15001.768	480324.438	HI 1	-0 03 38.64	0.9999795	1247.	22.08
201553310012	UNION STACK	20 14 21.01654	155 48 32.62085	155649.232	467707.716	HI 1	-0 06 24.90	0.9999729	1247.	22.08
191552410008	UWEKAHUNA HGS 1896	19 25 15.92889	155 17 12.38220	65072.740	522393.333	HI 1	0 04 15.24	0.9999729	31 SC	18.02
191552410024	UWEKAHUNA HGS 1896 PRE	19 25 15.93680	155 17 12.38827	65072.983	522393.155	HI 1	0 04 15.24	0.9999746	1212.	21.60
191551140007	VIEIRA	19 56 24.98228	155 10 11.80308	122564.474	534551.267	HI 1	0 06 45.23	0.9999746	1212.	21.60
191552410002	VOLCANO HOUSE FLAG 1949	19 25 47.26889	155 15 32.27008	66040.245	525312.518	HI 1	0 04 48.65	0.9999763	1145.	21.08
191552410022	VOLCANO HOUSE FLAG PRE	19 25 47.27942	155 15 32.25945	66040.569	525312.828	HI 1	0 04 48.66	0.9999763	105.	18.05
191552140006	VR 1-1 H1DT 1977	19 25 33.50815	155 14 1.47534	65621.023	527961.756	HI 1	0 05 18.80	0.9999954	699.	19.76
191551210056	VR 1-6 H1DT 1977	19 37 23.83271	155 02 25.37848	87505.794	548209.768	HI 1	0 09 15.69	0.9999834	444.	19.00
191551240001	VR 1-8 H1DT 1978	19 29 26.70115	155 08 58.22894	72807.255	536793.422	HI 1	0 07 1.00	0.9999879	1165 SC	21.21
191551220003	VR 1-8A H1DT 1978	19 33 10.35218	155 06 19.02562	79694.395	541420.035	HI 1	0 07 55.57	0.9999815	262.0	24.62
191554420002	WAAWAA	19 46 20.30738	155 49 51.77335	103970.885	465308.243	HI 1	-0 06 43.16	0.9999872	456.	
191553340002	WAHE PELE	19 13 39.60375	155 53 17.03371	43693.885	459196.871	HI 1	-0 07 40.08	0.9999941		
191554340003	WAIHAHA 1948	19 37 59.36727	155 56 57.87991	88595.617	452863.648	HI 1	-0 09 3.61	0.9999916	345.81	18.87
191551210084	WAIKAE CREEK CHAN DAYBEACON 1	19 43 27.07495	155 04 16.30429	98666.974	544949.594	HI 1	0 08 40.99	0.9999917	119.81	18.08
191551210086	WAIKAE LIGHT	19 43 31.45097	155 04 15.47658	98801.597	544973.355	HI 1	0 08 41.30	0.9999858	4011.00	23.73
191551240001	WAIKAE MAUKA USGS 1949	19 38 51.66429	155 07 28.49387	90184.951	539372.011	HI 1	0 07 34.43	0.9999902	4 SC	23.68
191551210037	WAIKAE NEW USGS 1949	19 41 5.27111	155 05 1.11111	94303.289	543655.567	HI 1	0 08 24.90	0.9999667	150.	18.16
191551430011	WAIKAE CRATER	19 48 32.66558	155 28 40.19439	108007.075	502322.547	HI 1	0 00 27.05	0.9999846		
201553320009	WAIKAE 1928	20 04 34.64411	155 51 50.78159	137629.270	461916.831	HI 1	-0 07 29.96	1.0000042		
191544330007	WAIKAEKAHE USGS 1978	19 32 40.62619	154 58 28.19224	78817.219	555147.444	HI 1	0 10 32.90			

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NAD 83 GEODETIC AND STATE PLANE COORDINATES

QIDOSN	STATION NAME	LATITUDE (NORTH)	LONGITUDE (WEST)	NORTHING METERS*	EASTING METERS*	ZONE	CONVERGENCE	SCALE FACTOR	ELEV. GEOID (M)	HT (M)
191553430009	WAIKAKUU 2 1948	19 18 31.20720	155 52 26.94816	52656.957	460679.056	HI 1	-0 07 25.38	0.9999858	363.	22.72
191553430010	WAIKAKUU 3 1951	19 18 31.17908	155 52 27.21085	52656.109	460671.386	HI 1	-0 07 25.47	0.9999858	346 SC	22.72
191553430003	WAIKAKUU 4 1951	19 18 30.86222	155 52 30.19077	52646.554	460584.372	HI 1	-0 07 26.45	0.9999859	324 SC	22.71
201553210006	WAIKOEKOE 2 1948	20 07 33.70961	155 33 47.96145	143095.347	493378.981	HI 1	-0 01 18.44	0.9999672	124 SC	21.88
201553210007	WAIKOEKOE 3 1948	20 07 33.48077	155 33 48.87239	143088.320	493352.521	HI 1	-0 01 18.75	0.9999672	123.	21.88
191553430001	WAIKUKUU	19 18 29.68877	155 52 24.29543	52610.101	460756.397	HI 1	-0 07 24.50	0.9999857	381.0	22.71
201553230008	WAIKUKUU	20 00 22.16797	155 40 39.96657	129833.885	481398.366	HI 1	-0 03 38.95	0.9999709		
201553230007	WAIKUKUU	20 00 50.42066	155 40 18.75567	130702.020	482015.787	HI 1	-0 02 31.77	0.9999707		
201553230004	WAIKUKUU	20 00 51.48920	155 39 22.27904	130733.270	483657.322	HI 1	-0 03 12.44	0.9999700	841.	23.44
201553230001	WAIKUKUU	20 01 09.91783	155 37 28.34150	131297.178	486969.350	HI 1	-0 02 32.48	0.9999688	877.	23.33
191551210051	WAINAKU STACK	19 44 16.71196	155 05 23.84230	100188.446	542979.296	HI 1	0 08 18.53	0.9999895		
201553220007	WAIPIO 1877	20 07 17.42869	155 36 17.41623	142596.890	489037.829	HI 1	-0 02 9.84	0.9999682	423.	22.07
201552320001	WAIKUKUU	19 59 54.79621	155 15 11.25629	129001.360	525834.003	HI 1	0 05 3.95	0.9999749	95 SC	19.70
201552320009	WATER	20 01 15.69741	155 21 29.85297	131476.331	514826.825	HI 1	0 02 54.66	0.9999694		
191561210018	WAWA 1972	19 43 1.27721	156 02 59.15620	97910.231	442367.756	HI 1	-0 11 7.74	1.0000077	2 SC	24.37
191543440009	WEST HEIHEIAHULU HIGS 1896	19 25 28.92096	154 59 27.57584	65537.336	553455.674	HI 1	0 10 9.42	1.0000020	523 SC	18.03
191551120004	WEST OF 2 STACKS	19 50 32.88657	155 05 8.72955	111756.908	543391.003	HI 1	0 05 26.20	0.9999899		
181554140022	WEST PAD CENTER USA 1961	18 56 21.42926	155 40 58.05604	11737.543	480746.968	HI 1	-0 03 33.58	0.9999712	96 SC	18.44
191524110004	WEST TANK 1946	19 58 53.46623	155 33 53.61628	127097.735	493208.527	HI 1	-0 01 19.83	0.9999672	1237.	23.26
191551210028	WHARF	19 43 39.45530	155 04 12.19757	99047.970	545068.211	HI 1	0 08 42.47	0.9999918		
191551110001	WHITE	19 52 28.90247	155 06 34.20558	115318.495	540895.645	HI 1	0 07 57.93	0.9999873		
191551210030	WHITE	19 43 22.22710	155 04 16.81243	98517.865	544935.174	HI 1	0 06 40.73	0.9999916		
181554140016	WIND	18 56 32.35718	155 41 3.86413	12073.717	480577.388	HI 1	-0 03 35.50	0.9999713	109.76	18.47
191551140023	YELLOW	19 59 33.33447	155 14 24.89553	128343.441	527182.648	HI 1	0 05 19.71	0.9999758		

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