



GEODETIC CONTROL DATA

NAD 83 COORDINATES for
Geodetic Control Diagram Area

OAHU

LATITUDE N21° to N22°

LONGITUDE W157°30' to W158°30'

Compiled and published by
National Geodetic Survey
Rockville, MD
FEBRUARY 1987

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric
Administration
National Ocean Service
Charting and Geodetic Services

NOAA TECHNICAL PUBLICATIONS

The National Geodetic Survey (NGS), Office of Charting and Geodetic Services, the National Ocean Service (NOS), NOAA, establishes and maintains the basic national horizontal, vertical, and gravity networks of geodetic control, and provides Government-wide leadership in the improvement of geodetic surveying methods and instrumentation, coordinates operations to assure network development, and provides specifications and criteria for survey operations by Federal, State, and other agencies.

NGS engages in research and development for the improvement of knowledge of the figure of the Earth and its gravity field, and has the responsibility to procure geodetic data from all sources, process these data, and make them generally available to users through a central data base.

NOAA geodetic publications and relevant geodetic publications of the former U.S. Coast and Geodetic Survey are sold in paper form by the National Geodetic Information Branch. To obtain a price list or to place an order, contact:

National Geodetic Information Branch
N/CG17, Rockwall Building, Room 21
National Geodetic Survey, NOAA
Rockville, MD 20852

When placing an order, make check or money order payable to: National Geodetic Survey. Do not send cash or stamps. Publications can also be charged to Visa, Master Card, or prepaid Government Printing Office Deposit Account. Telephone orders are accepted (area code 301 443-8631).

Publications can also be purchased over the counter at the National Geodetic Information Branch, 11400 Rockville Pike, Room 24, Rockville, MD. (Do not send correspondence to this address.)

An excellent reference source for all Government publications is the National Depository Library Program, a network of about 1,300 designated libraries. Requests for borrowing Depository Library material may be made through your local library. A free listing of libraries in this system is available from the Library Division, U.S. Government Printing Office, Washington, DC 20401 (area code 202 275-1063) or the Marketing Department (202 275-9051).

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

Geodetic Control Diagram

OAHU

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)
211573420076	1 12	21 20 26.34425	157 50 2.76894	19272.498	517208.838	HI 3	0 03 37.34	0.9999937	131.16	10.55
211573420099	1 5	21 19 44.13516	157 50 43.99053	17973.119	516022.335	HI 3	0 03 22.23	0.9999932	74.46	10.55
211573430030	1 8	21 19 59.62452	157 53 41.14778	18445.297	510916.931	HI 3	0 02 17.82	0.9999915	2.63	10.53
211582140043	100+23.38	21 23 32.34171	158 09 25.57419	24992.071	483709.051	HI 3	-0 03 26.29	0.9999933	4 SC	10.50
211573430077	171 USN 1960	21 21 4.55121	157 57 41.04844	20439.004	504003.510	HI 3	0 00 50.59	0.9999902	2 SC	10.50
211573420148	2 1	21 17 57.24383	157 51 47.25854	14683.923	514202.014	HI 3	0 02 58.98	0.9999925	1.15	10.58
211573420057	2 10	21 17 35.33944	157 49 30.29507	14014.142	518150.391	HI 3	0 03 48.67	0.9999941	3.70	10.61
211573420041	2 5	21 16 55.20377	157 48 51.17719	12781.035	519279.367	HI 3	0 04 2.76	0.9999946	3.84	10.64
211573420065	2 6	21 17 48.24049	157 49 46.27105	14410.418	517689.475	HI 3	0 03 42.91	0.9999939	5.26	10.60
211573420094	2 9	21 17 20.35769	157 50 31.31501	13551.514	516392.032	HI 3	0 03 26.47	0.9999933	1.46	10.60
211573430076	214 USN 1960	21 20 57.44699	157 57 40.18994	20220.515	504028.299	HI 3	0 00 50.90	0.9999902	14.	10.50
211573430083	246 USN 1960	21 20 44.93113	157 57 54.72228	19835.483	503609.669	HI 3	0 00 45.60	0.9999902	4 SC	10.50
211582140044	253+00	21 23 40.61975	158 09 35.35851	25246.954	483427.480	HI 3	-0 03 29.89	0.9999934	5 SC	10.50
211573130019	3 12	21 16 25.68769	157 41 52.20950	11891.911	531358.259	HI 3	0 06 34.68	1.0000021	72.89	10.77
211573130015	3 13	21 16 22.55018	157 41 20.17978	11797.208	532281.792	HI 3	0 06 46.29	1.0000029	60.97	10.78
211573420036	3 3	21 17 12.71869	157 48 26.23027	13320.579	519997.827	HI 3	0 04 11.87	0.9999949	30.31	10.64
211573420051	3 4	21 16 15.56963	157 49 21.39563	11561.064	518409.663	HI 3	0 03 51.67	0.9999942	2.51	10.64
211573420003	3 7	21 16 41.70714	157 45 6.47479	12374.841	525757.277	HI 3	0 05 24.26	0.9999982	2.04	10.71
211573130045	3 8	21 16 51.23136	157 44 17.47201	12670.046	527169.381	HI 3	0 05 42.08	0.9999991	1.59	10.71
211582120035	30188 1973	21 18 52.45519	157 59 55.47393	16375.817	500130.439	HI 3	0 00 1.65	0.9999900	1.69	10.52
211582120033	30188 1973 RM 1	21 18 51.55958	157 59 55.14498	16348.272	500139.919	HI 3	0 00 1.76	0.9999900	1.56	10.52
211582120036	30188 1973 RM 2	21 18 52.32195	157 59 57.27565	16371.719	500078.514	HI 3	0 00 0.99	0.9999900	1.56	10.52
211573430084	387 USN 1960	21 20 50.57175	157 57 56.22154	20008.955	503566.432	HI 3	0 00 45.06	0.9999902	4 SC	10.50
211573130008	4 1	21 18 47.25274	157 39 40.72305	16253.561	535139.367	HI 3	0 07 23.17	1.0000053	15.18	10.70
211573410007	4 10	21 22 50.11552	157 45 20.56678	23704.911	525333.480	HI 3	0 05 20.61	0.9999979	37.73	10.52
211573410023	4 11	21 22 37.55937	157 47 0.12735	23314.529	522466.000	HI 3	0 04 44.27	0.9999962	97.91	10.52
211573410029	4 19	21 24 10.75563	157 47 57.91922	26178.662	520797.509	HI 3	0 04 23.51	0.9999953	36.66	10.49
211573130016	4 2	21 24 10.75563	157 47 57.91922	18125.434	531994.480	HI 3	0 06 43.86	1.0000026	4.90	10.64
211573410031	4 23	21 19 48.32456	157 41 29.71694	18125.434	520724.954	HI 3	0 04 22.73	0.9999953	19.72	10.48
211573410038	4 26	21 25 38.54634	157 48 26.12822	28877.741	519981.709	HI 3	0 04 13.49	0.9999949	25.19	10.46
211573410043	4 27	21 26 38.85797	157 48 35.22138	30732.374	519717.598	HI 3	0 04 10.35	0.9999948	1.30	10.45
211573410058	4 29	21 29 44.18552	157 51 6.13250	36427.654	515366.837	HI 3	0 03 15.63	0.9999929	13.87	10.45
211574320002	4 30	21 31 21.32300	157 50 6.68955	39416.964	517074.695	HI 3	0 03 37.67	0.9999936	1.58	10.42
211573410054	4 32	21 27 35.21656	157 50 28.90717	32462.104	516442.354	HI 3	0 03 28.93	0.9999933	2.02	10.45
211573130035	4 6 SS	21 20 52.81863	157 43 19.38455	20103.127	528830.722	HI 3	0 06 4.26	1.0000003	6.52	10.58
211574340021	5 10	21 41 51.50823	157 59 31.65889	58790.362	500814.638	HI 3	0 00 10.48	0.9999900	4.33	9.68
211581210009	5 11	21 41 34.72982	158 01 9.34952	58274.412	498006.550	HI 3	-0 00 25.63	0.9999900	4.76	9.72
211574330003	5 3	21 35 9.63946	157 53 15.28958	46434.359	511641.966	HI 3	0 02 28.89	0.9999917	2.01	10.26
211574330008	5 4	21 36 10.96562	157 53 55.99591	48319.742	510469.775	HI 3	0 02 14.02	0.9999914	2.27	10.19
211574330009	5 5	21 36 47.33957	157 54 43.37299	49437.656	509106.445	HI 3	0 01 56.63	0.9999910	2.35	10.15
211574340004	5 6	21 37 59.39194	157 55 16.55999	51653.239	508150.837	HI 3	0 01 44.49	0.9999908	3.51	10.05
211574340006	5 7	21 39 24.67721	157 55 51.08924	54275.868	507156.717	HI 3	0 01 31.86	0.9999906	3.65	9.92
211574340010	5 8	21 40 34.83665	157 56 50.73490	56433.081	505441.046	HI 3	0 01 9.91	0.9999904	2.72	9.81
211574340014	5 9 SS	21 41 1.72432	157 57 38.00117	57259.659	504082.011	HI 3	0 00 52.47	0.9999902	7.19	9.77
211581220016	6 1	21 37 12.81405	158 05 0.74859	50220.915	491350.653	HI 3	-0 01 50.81	0.9999909	6.42	10.15
211581220028	6 10	21 33 43.10204	158 06 47.22897	43772.818	488283.653	HI 3	-0 02 29.66	0.9999917	21.51	10.39

* 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 3.28083990501 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)
211581230002	6 11	21 34 3.71041	158 07 41.38538	44407.866	486726.043	HI 3	-0 02 49.61	0.9999922	13.20	10.38
211581230023	6 12	21 34 57.29753	158 12 2.77035	46063.961	479208.159	HI 3	-0 04 25.87	0.9999953	3.65	10.38
211581320002	6 13	21 34 44.32969	158 15 4.30206	45672.689	473985.395	HI 3	-0 05 32.59	0.9999984	12.70	10.43
211581220027	6 15	21 34 32.87750	158 06 22.94469	45303.247	488983.379	HI 3	-0 02 20.82	0.9999915	14.33	10.35
211581220019	6 2	21 36 41.22879	158 05 33.28978	49249.986	490414.209	HI 3	-0 02 2.75	0.9999911	2.78	10.20
211581220022	6 4	21 35 52.87094	158 06 11.81839	47763.358	489305.094	HI 3	-0 02 16.86	0.9999914	2.94	10.26
211581220014	6 8	21 31 7.76957	158 04 8.09720	38992.676	492859.911	HI 3	-0 01 31.00	0.9999906	289.73	10.46
211581220015	6 9	21 31 35.88611	158 04 39.39362	39857.860	491959.648	HI 3	-0 01 42.52	0.9999908	279.57	10.45
211582110018	7 1	21 29 14.22448	158 01 41.08037	35499.140	497090.340	HI 3	-0 00 37.03	0.9999901	259.96	10.46
211582110038	7289V5 1967	21 22 26.53943	158 05 57.84130	22963.380	489691.370	HI 3	-0 02 10.42	0.9999913	512.	10.49
211581320010	8 1	21 33 54.79229	158 15 48.01436	44151.156	472725.316	HI 3	-0 05 48.45	0.9999992	13.83	10.48
211581230042	8 10	21 31 43.84556	158 13 39.21094	40117.846	476425.173	HI 3	-0 05 0.63	0.9999969	5.37	10.52
211581320005	8 2	21 33 32.96910	158 15 20.89507	43478.648	473504.449	HI 3	-0 05 38.40	0.9999987	16.13	10.48
211581230053	8 3	21 32 44.55432	158 14 24.48917	41986.991	475125.047	HI 3	-0 05 17.48	0.9999976	8.24	10.50
211582140018	8 4	21 26 26.94547	158 11 26.60086	30366.055	480229.486	HI 3	-0 04 10.98	0.9999948	3.50	10.51
211582140012	8 7	21 24 55.45510	158 10 36.68727	27550.484	481663.566	HI 3	-0 03 52.47	0.9999942	3.85	10.50
211582140011	8 7 A	21 24 46.24683	158 10 35.07326	27267.222	481709.731	HI 3	-0 03 51.86	0.9999941	3.75	10.50
211582140008	8 8 SS	21 23 31.08483	158 09 28.31745	24953.494	483629.995	HI 3	-0 03 27.29	0.9999933	2.71	10.50
211582130003	8 9	21 22 9.91183	158 08 14.78835	22454.956	485745.771	HI 3	-0 03 0.29	0.9999925	3.71	10.49
211582130002	9 1	21 21 39.20060	158 07 53.80414	21509.890	486349.510	HI 3	-0 02 52.58	0.9999923	9.09	10.49
211582110012	9 17	21 26 31.10610	158 00 46.09993	30482.045	498672.575	HI 3	-0 00 16.85	0.9999900	178.97	10.47
211582110007	9 18	21 25 14.56233	158 00 23.57131	28127.826	499321.178	HI 3	-0 00 8.61	0.9999900	128.06	10.47
211573440009	9 19	21 23 50.32688	157 59 29.56299	25537.097	500876.685	HI 3	0 00 11.10	0.9999900	35.14	10.48
211573430059	9 25	21 20 23.28741	157 55 48.17536	19171.029	507256.204	HI 3	0 01 31.64	0.9999907	7.54	10.51
211582120022	9 3	21 19 54.79508	158 05 21.87478	18295.750	490724.836	HI 3	-0 01 57.09	0.9999911	30.85	10.50
211582110017	9 4	21 22 34.83704	158 01 34.26937	23215.547	497284.348	HI 3	-0 00 34.36	0.9999901	18.28	10.49
211582120006	9 8	21 21 12.33352	158 01 42.52038	20678.131	497046.199	HI 3	-0 00 37.33	0.9999901	17.01	10.50
211572220017	A	21 04 51.78649	157 01 44.38183	82822.407	462350.025	HI 2	-0 07 49.18	0.9999842		
211573410070	AERO OBSTRUCTION LT A	21 25 21.90223	157 45 24.90398	28373.083	525201.312	HI 3	0 05 19.63	0.9999978		
211573410071	AERO OBSTRUCTION LT AA	21 25 34.68227	157 45 33.03438	28765.787	524966.565	HI 3	0 05 16.71	0.9999977		
211573410076	AERO OBSTRUCTION LT C	21 24 35.55290	157 45 56.76665	26946.161	524285.844	HI 3	0 05 7.81	0.9999973		
211573410079	AERO OBSTRUCTION LT D	21 24 16.38280	157 46 19.79692	26355.588	523623.406	HI 3	0 04 59.34	0.9999969		
211573410082	AERO OBSTRUCTION LT E	21 24 12.19447	157 46 41.51607	26225.875	522998.032	HI 3	0 04 51.39	0.9999965		
211573410086	AERO OBSTRUCTION LT G	21 25 38.46715	157 47 35.19445	28877.174	521448.478	HI 3	0 04 32.09	0.9999957		
211573410094	AERO OBSTRUCTION LT I	21 26 42.26158	157 49 21.61891	30835.489	518381.501	HI 3	0 03 53.40	0.9999942		
211573410090	AERO OBSTRUCTION LT J	21 26 22.66498	157 48 46.72471	30233.941	519386.964	HI 3	0 04 6.10	0.9999946		
211573410093	AERO OBSTRUCTION LT K	21 26 47.50281	157 49 12.92727	30996.974	518631.583	HI 3	0 03 56.59	0.9999943		
211573410092	AERO OBSTRUCTION LT L	21 26 57.32370	157 49 8.23290	31299.183	518766.402	HI 3	0 03 58.34	0.9999943		
211573410091	AERO OBSTRUCTION LT M	21 27 3.11721	157 49 1.44366	31477.596	518961.678	HI 3	0 04 0.84	0.9999944		
211573410102	AERO OBSTRUCTION LT N	21 25 21.31330	157 47 36.84773	28349.526	521401.562	HI 3	0 04 31.43	0.9999957		10.47
211573410084	AERO OBSTRUCTION LT O	21 26 0.23812	157 47 16.20556	29547.496	521994.404	HI 3	0 04 39.11	0.9999960		
211573410095	AERO OBSTRUCTION LT P	21 26 49.39659	157 49 30.02424	31054.663	518139.233	HI 3	0 03 50.35	0.9999941		
211573410096	AERO OBSTRUCTION LT Q	21 26 57.12799	157 49 41.98775	31292.070	517794.499	HI 3	0 03 45.99	0.9999939		
211573410097	AERO OBSTRUCTION LT R	21 27 6.87451	157 49 48.56051	31591.629	517604.924	HI 3	0 03 43.62	0.9999938		
211573410098	AERO OBSTRUCTION LT S	21 27 12.57860	157 49 51.22646	31766.982	517527.975	HI 3	0 03 42.66	0.9999938		

* For conversion of meters to U.S. Survey Feet multiply the meters by 39.37/12.0 which is 3.28083333333 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

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

3

Geodetic Control Diagram

OAHU

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)
211573430098	AHUA OVERPASS	21 20 39.20947	157 53 34.52578	19662.888	511106.922	HI 3	0 02 20.30	0.9999915	9 SC	10.52
211573440004	AIEA 1969	21 23 36.39619	157 56 9.05915	25109.982	506652.025	HI 3	0 01 24.24	0.9999905	82.	10.48
211573440002	AIEA MILL STACK	21 22 47.85703	157 55 37.02039	23617.522	507575.565	HI 3	0 01 35.87	0.9999907		
211582120014	AIR 1969	21 18 56.33410	158 03 44.20293	16496.391	493538.645	HI 3	-0 01 21.50	0.9999905	11.	10.51
211573430055	AIRPORT 1969	21 19 18.46522	157 55 36.29387	17177.536	507599.491	HI 3	0 01 35.89	0.9999907	2.47	10.53
211572210013	AIRPORT BEACON MOLOKAI AIRPORT	21 09 24.07897	157 05 32.18460	91212.961	455797.004	HI 2	-0 09 13.00	0.9999908		
211572210014	AIRPORT RP 1962	21 09 9.93667	157 05 46.78922	90779.151	455374.483	HI 2	-0 09 18.18	0.9999913	135.95	11.53
211573420032	AKAKA 1928	21 19 10.57738	157 48 4.24985	16946.186	520626.842	HI 3	0 04 20.23	0.9999953	100 SC	10.59
211581230051	ALEI 1932	21 34 23.35807	158 14 20.90450	45025.706	475232.854	HI 3	-0 05 16.55	0.9999976	330 SC	10.44
211573430045	ALIAMANU BOARD WTR TK	21 21 15.58474	157 54 47.02998	20780.348	509017.191	HI 3	0 01 53.96	0.9999910		
211573420124	ALLEN AND ROBINSON WAREHOUSE	21 17 42.55144	157 51 27.74250	14232.548	514764.922	HI 3	0 03 6.04	0.9999927		
211572240009	AMIKOPALA 1925	21 07 40.74967	157 11 23.33881	88065.325	445655.670	HI 2	-0 11 18.87	1.0000031	411 SC	11.61
211574340013	ANCHOR 1932	21 42 2.63829	157 57 33.90712	59133.218	504199.212	HI 3	0 00 54.02	0.9999902	3 SC	9.66
211581230070	ANGLE	21 33 52.98511	158 14 23.43899	44091.646	475158.502	HI 3	-0 05 17.36	0.9999976	397 SC	10.46
211581230066	ANGLE ECC 1960	21 33 52.45587	158 14 23.92260	44075.390	475144.564	HI 3	-0 05 17.54	0.9999976	397 SC	10.46
211581230068	ANT	21 33 39.32499	158 14 18.54385	43671.290	475298.696	HI 3	-0 05 15.51	0.9999975	406 SC	10.47
211574330016	ANTENNA	21 31 15.46142	157 59 49.46836	39227.676	500303.090	HI 3	0 00 3.86	0.9999900	387.73	10.45
211581230050	ANTENNA 1958	21 33 39.70583	158 14 19.60875	43683.051	475268.075	HI 3	-0 05 15.90	0.9999976	415.	10.47
211574330015	ANTENNA HUB	21 31 16.27231	157 59 49.24300	39252.617	500309.575	HI 3	0 00 3.95	0.9999900		10.45
211573430053	ARP 1956	21 19 18.77302	157 55 35.52004	17187.013	507621.787	HI 3	0 01 36.17	0.9999907	2.78	10.53
211572220015	B	21 04 53.65228	157 01 42.24703	82879.648	462411.775	HI 2	-0 07 48.42	0.9999841		
211573410042	B 4	21 25 56.92177	157 48 33.78848	29442.628	519760.426	HI 3	0 04 10.75	0.9999948	12.54	10.46
211573420122	B 5	21 17 39.50275	157 51 26.92219	14138.805	514788.651	HI 3	0 03 6.33	0.9999927	1.84	10.59
211582120017	BAH 1965	21 20 11.60548	158 04 27.89703	18811.955	492280.507	HI 3	-0 01 37.47	0.9999907	44 SC	10.50
211582120026	BARBERS POINT 1969	21 17 48.88736	158 06 4.79331	14424.131	489485.603	HI 3	-0 02 12.49	0.9999914	2.	10.51
211582120031	BARBERS POINT LIGHT	21 17 46.68127	158 06 22.34634	14356.614	488979.628	HI 3	-0 02 18.86	0.9999915	11.	10.50
211582120030	BARBERS POINT LIGHTHOUSE NEW	21 17 46.90367	158 06 22.23912	14363.452	488982.723	HI 3	-0 02 18.83	0.9999915		
211582120032	BARBERS PT CEMENT PLT OBSTR LT	21 17 58.54529	158 06 28.00199	14721.609	488816.864	HI 3	-0 02 20.94	0.9999915		
211582120016	BARBERS PT NAS BASE CONT TR BN	21 18 37.22092	158 04 14.88501	15908.927	492654.146	HI 3	-0 01 32.63	0.9999907		
211582120021	BARBERS PT NAS BEACON	21 18 19.31948	158 04 51.90166	15358.872	491587.033	HI 3	-0 01 46.06	0.9999909		
211582120011	BARBERS PT NAS S RADIO TOWER	21 19 31.61417	158 03 36.17637	17581.361	493770.377	HI 3	-0 01 18.62	0.9999905		
211582120029	BARBERS PT STANDARD OIL NW TWR	21 18 37.48467	158 06 49.80341	15919.654	488189.359	HI 3	-0 02 28.93	0.9999917		
211582120028	BARBERS PT STANDARD OIL SE TWR	21 18 32.73281	158 06 46.37729	15773.436	488287.997	HI 3	-0 02 27.68	0.9999917		
211573420011	BARN	21 17 7.60978	157 45 52.39662	13169.466	524432.314	HI 3	0 05 7.69	0.9999974		
211581320009	BATH	21 34 40.38222	158 15 46.61385	45553.286	472767.975	HI 3	-0 05 48.13	0.9999992	2.15	10.44
211581320008	BATH RM 3	21 34 39.86887	158 15 46.08070	45537.471	472783.286	HI 3	-0 05 47.94	0.9999991	2.67	10.44
211573130032	BELLOWS AFB COMM MAST	21 21 29.94254	157 42 50.81098	21246.384	529651.943	HI 3	0 06 14.83	1.0000009		
211573130033	BELLOWS AFB MICROWAVE TOWER	21 21 25.78618	157 42 54.48948	21118.358	529546.192	HI 3	0 06 13.47	1.0000008		
211581230054	BENCH MARK 60 A USE 1958	21 32 50.82642	158 14 26.03483	42179.968	475080.869	HI 3	-0 05 18.07	0.9999977	7.	10.50
211572240007	BENCH MARK NR MAUNA LOA 1962	21 08 31.97982	157 09 25.31316	89630.052	449066.263	HI 2	-0 10 36.73	0.9999987	422.	11.56
211573130036	BENCH MARK T 2 RESET 1969	21 20 47.15130	157 43 19.45067	19928.819	528829.125	HI 3	0 06 4.21	1.0000003	9.08	10.59
211572220013	BILL	21 05 22.34544	157 01 38.24644	83761.829	462529.248	HI 2	-0 07 47.15	0.9999840		
211572220024	BLACK	21 06 7.74061	157 04 46.15643	85171.114	457109.235	HI 2	-0 08 55.07	0.9999894		
211573430002	BLACK BEACON 3	21 17 40.41940	157 52 21.65158	14165.648	513211.139	HI 3	0 02 46.46	0.9999922		
211573420199	BLACK BEACON 5	21 17 48.96450	157 52 17.92325	14428.545	513318.388	HI 3	0 02 47.83	0.9999922		

* 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. GEIOD (M)	HT (M)
211573420173	BLACK BEACON 7	21 17 56.79609	157 52 12.10909	14669.547	513485.771	HI 3	0 02 49.96	0.9999922		
211573420018	BLACK POINT DATUM POINT	21 15 44.02133	157 46 51.52552	10596.200	522731.472	HI 3	0 04 45.93	0.9999964		
211573130009	BLOW	21 17 12.30139	157 40 8.13760	13331.569	534355.407	HI 3	0 07 12.69	1.0000046	1.91	10.77
211582120034	BM HO 1 1973	21 18 52.77773	157 59 55.20891	16385.737	500138.076	HI 3	0 00 1.74	0.9999900	1.64	10.52
211581230065	BORE 1960	21 33 52.03416	158 14 18.99009	44062.202	475286.455	HI 3	-0 05 15.72	0.9999975	395.	10.46
211581320018	BOUNDARY MARK 1963	21 34 27.73897	158 16 47.98070	45167.497	471001.875	HI 3	-0 06 10.65	1.0000004	3 SC	10.47
211582140019	BURNS USE	21 27 45.45719	158 11 47.49606	32781.520	479630.841	HI 3	-0 04 18.87	0.9999951	77 SC	10.52
211582140021	BURNS USE 1927	21 29 23.72372	158 12 50.97510	35806.233	477807.378	HI 3	-0 04 42.44	0.9999961	525 SC	10.53
211572220022	CAB	21 06 13.24997	157 04 21.91991	85338.753	457809.146	HI 2	-0 08 46.38	0.9999887		
211581230058	CACTUS 1958	21 33 48.76709	158 14 43.06061	43962.792	474593.774	HI 3	-0 05 24.56	0.9999980	412.	10.47
211581210016	CAIN USE	21 37 30.29614	158 03 28.69146	50757.402	493998.361	HI 3	-0 01 16.91	0.9999904	97 SC	10.12
211573410083	CALIB SITE 1	21 25 58.56645	157 47 10.55397	29496.303	522157.220	HI 3	0 04 41.17	0.9999961	2 SC	10.46
211573410075	CALIB SITE 2	21 26 14.95699	157 45 55.47307	30003.504	524318.528	HI 3	0 05 8.66	0.9999973	1 SC	10.45
211573410085	CALIB SITE 3	21 26 23.47394	157 47 29.88943	30261.612	521599.409	HI 3	0 04 34.18	0.9999958	1 SC	10.45
211581230025	CAMP 1927	21 34 5.50614	158 12 15.35004	44471.501	478844.192	HI 3	-0 04 30.32	0.9999955	320 SC	10.43
211581230037	CAMP EROMAN FLAGPOLE	21 34 44.90651	158 13 25.93537	45686.115	476815.206	HI 3	-0 04 56.41	0.9999966		
211581210011	CAMP PUPUKEA 1969	21 38 31.06996	158 01 29.60530	52625.694	497423.392	HI 3	-0 00 33.05	0.9999901	300.	10.02
211572220001	CANE	21 05 1.40137	157 00 46.75031	83114.407	464014.173	HI 2	-0 07 28.50	0.9999827		
211573140017	CAPE	21 25 27.41654	157 44 21.17590	28545.630	527036.302	HI 3	0 05 42.93	0.9999990	12 SC	10.46
211573420024	CARTER FLAGSTAFF	21 15 20.03127	157 47 35.55470	9856.663	521463.086	HI 3	0 04 29.88	0.9999957		
211573140016	CASTLE 1932	21 27 19.58839	157 44 19.57534	31995.693	527076.645	HI 3	0 05 43.99	0.9999991	13 SC	10.43
211573140024	CHISELED CROSS 1963	21 23 44.60710	157 43 13.20502	25386.976	528999.376	HI 3	0 06 7.29	1.0000004	7 SC	10.50
211572310007	CLIFF 1950	21 13 16.68363	157 15 11.96980	98420.186	439096.502	HI 2	-0 12 44.50	1.0000125	47 SC	11.07
211581320007	CLIFF 1958	21 34 2.25581	158 15 36.76662	44380.166	473049.302	HI 3	-0 05 44.35	0.9999990	323.	10.47
211581320025	COMMAND	21 34 19.22278	158 16 0.36397	44903.163	472371.298	HI 3	-0 05 53.10	0.9999994	276 SC	10.46
211581320024	COMMAND ECC	21 34 19.76052	158 16 0.07451	44919.688	472379.654	HI 3	-0 05 53.00	0.9999994	276 SC	10.46
211573410041	COOLIDGE	21 24 19.91565	157 48 32.70066	26459.139	519795.382	HI 3	0 04 10.84	0.9999948	88 SC	10.48
211573130007	COVE 1931	21 17 35.69200	157 39 30.13052	14053.303	535449.412	HI 3	0 07 26.62	1.0000055	2.0	10.76
211573420151	CREMATORY RED BRICK CHIMNEY	21 17 52.24988	157 51 48.42127	14530.302	514168.634	HI 3	0 02 58.55	0.9999925		
211581230061	CROSS ON ROCK WALL 1964	21 34 51.31373	158 10 20.60742	45876.399	482146.871	HI 3	-0 03 48.27	0.9999939	3 SC	10.37
211572220012	D	21 04 59.53797	157 01 35.34623	83060.208	462611.372	HI 2	-0 07 45.97	0.9999839		
211573430047	DANJON ASTROLABE 1957	21 20 39.19506	157 54 58.36083	19660.980	508691.326	HI 3	0 01 49.79	0.9999909		10.51
211573420074	DE RUSSY 1927	21 16 43.88406	157 50 2.01683	12430.615	517237.718	HI 3	0 03 37.01	0.9999937	3 SC	10.62
211572310005	DERRICK	21 10 57.01509	157 15 6.09039	94123.965	439250.190	HI 2	-0 12 41.04	1.0000123		
211581230067	DEUCE 1960	21 33 45.25922	158 14 26.87021	43854.176	475059.417	HI 3	-0 05 18.59	0.9999977	412 SC	10.47
211573420187	DIAMOND HEAD 1872	21 15 34.94666	157 48 42.31525	10312.988	519537.762	HI 3	0 04 5.73	0.9999947	233 SC	10.67
211573420188	DIAMOND HEAD 2 1969	21 15 34.94777	157 48 42.31530	10313.022	519537.761	HI 3	0 04 5.73	0.9999947	233.	10.67
211573420038	DIAMOND HEAD LIGHHOUSE	21 15 20.59100	157 48 34.39020	9871.746	519766.776	HI 3	0 04 8.56	0.9999948		
211581230062	DILLINGHAM 1927	21 34 51.23265	158 10 20.64153	45873.907	482145.887	HI 3	-0 03 48.28	0.9999939	3 SC	10.37
211573420044	DILLINGHAM CENTER OF HOUSE	21 15 41.12766	157 48 58.16175	10502.549	519080.683	HI 3	0 03 60.00	0.9999945		
211581230018	DOLLAR RADIO STATION TANK	21 34 38.21504	158 11 33.71989	45475.992	480043.127	HI 3	-0 04 15.12	0.9999949		
211573420194	DOME AMERICAN FACTORS BUILDING	21 18 29.50879	157 51 48.78180	15676.213	514157.251	HI 3	0 02 58.50	0.9999925		
211582140033	DRILL HOLE CROSS ON ROCK 1964	21 26 43.64153	158 10 11.66265	30877.079	482387.876	HI 3	-0 03 43.63	0.9999938	200 SC	10.51
211581220018	OUB	21 36 23.16662	158 05 25.41756	48694.321	490640.300	HI 3	-0 01 59.83	0.9999911		
211572220011	E	21 05 3.16496	157 01 31.50939	83171.504	462722.370	HI 2	-0 07 44.61	0.9999838		

* 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. GEOD (M)	HT (M)
211573420050	ELKS CLUB FS NEAR CEN OF ROOF	21 15 40.86704	157 49 16.98241	10493.912	518538.094	HI 3	0 03 53.17	0.9999942		
211581220026	ENA-PUENA 1910	21 36 11.17676	158 06 22.72600	48326.595	488991.735	HI 3	-0 02 20.91	0.9999915	2 SC	10.24
211582140016	ESHLEMAN USE	21 29 29.85425	158 11 22.83208	35991.510	480344.822	HI 3	-0 04 10.17	0.9999948		
211572240018	EVE	21 11 17.65520	157 14 49.22773	94756.975	439738.927	HI 2	-0 12 35.14	1.0000115		
211573430087	EWA AIR FORCE CALIB TOWER	21 22 9.04576	157 59 17.14515	22422.137	501234.595	HI 3	0 00 15.62	0.9999900		
211582120002	EWA BEACH 1969	21 18 45.42941	158 00 36.39697	16159.768	498951.046	HI 3	0 00 13.23	0.9999900	2.	10.52
211573440008	EWA CHURCH 1873	21 23 30.95170	157 58 48.94335	24941.302	502046.738	HI 3	0 00 25.92	0.9999901	27.	10.48
211582120007	EWA IMM CON CATH CH CROSS	21 20 35.67066	158 02 4.83929	19550.668	496402.901	HI 3	-0 00 45.44	0.9999902		
211582120009	EWA MILL OLD STACK	21 20 22.22368	158 02 8.37162	19137.120	496301.027	HI 3	-0 00 46.71	0.9999902		
211582120008	EWA MILL STACK	21 20 21.24234	158 02 7.78756	19106.934	496317.850	HI 3	-0 00 46.50	0.9999902		
211573430058	F 10	21 19 5.30730	157 55 47.06918	16772.715	507289.148	HI 3	0 01 31.95	0.9999907	2.89	10.53
211574320005	F 4	21 32 30.86625	157 50 31.58748	41555.127	516356.001	HI 3	0 03 28.71	0.9999933	2 SC	10.39
211582140057	FARRINGTON LUALUALEI HOMESTEAD	21 26 29.75268	158 11 12.28965	30451.898	480641.678	HI 3	-0 04 5.76	0.9999946	5 SC	10.51
211581230049	FENCE 1958	21 33 38.37866	158 14 18.58869	43642.186	475297.361	HI 3	-0 05 15.52	0.9999975	409.	10.47
211572220007	FLAG	21 05 11.85356	157 01 25.48495	83438.327	462896.858	HI 2	-0 07 42.50	0.9999837		
211573140007	FLAT 1926	21 23 57.85097	157 43 12.50640	25794.342	529018.773	HI 3	0 06 7.60	1.0000004	2 SC	10.49
211572220014	FLY	21 04 55.38096	157 01 39.72607	82932.648	462484.662	HI 2	-0 07 47.52	0.9999841	1 SC	11.96
211573420165	FORT ARMSTRONG FLAGSTAFF	21 17 54.24681	157 52 2.49232	14591.373	513763.016	HI 3	0 02 53.44	0.9999923		
211573420166	FORT ARMSTRONG LIGHT	21 17 56.02779	157 52 4.13901	14646.108	513715.508	HI 3	0 02 52.85	0.9999923		
211573420075	FORT DE RUSSY FLAGPOLE	21 16 52.48157	157 50 2.70501	12695.015	517217.602	HI 3	0 03 36.79	0.9999937		
211573420078	FORT DE RUSSY NORTH RADIO MAST	21 17 2.89315	157 50 7.09536	13015.097	517090.712	HI 3	0 03 35.22	0.9999936		
211573420077	FORT DE RUSSY SOUTH RADIO MAST	21 17 0.49568	157 50 6.52596	12941.378	517107.202	HI 3	0 03 35.42	0.9999936		
211573430074	FORT KAMEHAMEHA FLAGSTAFF	21 19 17.34594	157 57 34.93282	17141.880	504180.559	HI 3	0 00 52.75	0.9999902		
211573430017	FORT SHAFTER FLAGSTAFF	21 20 46.85498	157 53 13.69166	19898.450	511707.061	HI 3	0 02 27.90	0.9999917		
211573420195	FRONT RANGE LIGHTHOUSE	21 18 6.01708	157 52 7.36085	14953.257	513622.391	HI 3	0 02 51.70	0.9999923		
211573140020	G P WILCOX FLAGPOLE	21 24 45.56806	157 44 38.28866	27257.719	526545.586	HI 3	0 05 36.50	0.9999987		
211573420013	GABLE	21 17 8.60809	157 45 53.19888	13200.135	524409.143	HI 3	0 05 7.41	0.9999974		
211573420002	GAP 1952	21 20 30.79820	157 45 6.20823	19420.723	525753.866	HI 3	0 05 25.28	0.9999982	203.0	10.58
211582120025	GILBERT	21 19 44.93633	158 06 2.69742	17993.247	489548.294	HI 3	-0 02 11.92	0.9999913	20.16	10.50
211581230069	GLO	21 33 39.27794	158 14 18.67014	43669.849	475295.060	HI 3	-0 05 15.55	0.9999975	406 SC	10.47
211574340008	GOLF	21 40 34.32617	157 56 24.48011	56417.653	506195.832	HI 3	0 01 19.60	0.9999905	17.57	9.81
211581230024	GREEN WATER TANK	21 34 42.37323	158 12 10.48498	45605.227	478985.635	HI 3	-0 04 28.65	0.9999955		
211581220009	GROVE 1969	21 35 35.50162	158 02 56.02294	47226.383	494936.747	HI 3	-0 01 4.78	0.9999903	245.	10.26
211573420193	HACKFIELD BUILDING FLAGSTAFF	21 18 29.51095	157 51 48.77070	15676.280	514157.571	HI 3	0 02 58.51	0.9999925		
211572210017	HAHAEULE	21 09 38.79498	157 00 13.27176	91643.447	464998.579	HI 2	-0 07 17.98	0.9999818	515 SC	11.50
211572210018	HAHAEULE 2 1962	21 09 38.79692	157 00 13.26965	91643.507	464998.640	HI 2	-0 07 17.98	0.9999818	510.73	11.50
211581230030	HAILI 1932	21 34 17.77615	158 12 36.45598	44849.693	478237.487	HI 3	-0 04 38.12	0.9999958	306 SC	10.42
211573440001	HALAWA BARREL 1927	21 23 21.58173	157 53 19.29372	24657.081	511542.279	HI 3	0 02 26.14	0.9999916	352.0	10.49
211572320003	HALE O LONO	21 05 14.77547	157 14 57.95155	83597.391	439446.356	HI 2	-0 12 34.85	1.0000120	51 SC	11.72
211572320004	HALE O LONO 2 1962	21 05 15.03791	157 14 59.52477	83632.078	439401.073	HI 2	-0 12 35.43	1.0000120	45.91	11.72
211572220002	HALEAHI 1962	21 05 15.03618	157 01 2.16580	83534.711	463570.144	HI 2	-0 07 34.12	0.9999831	3.0	11.93
211581220023	HALEIWA HOTEL SW FLAGSTAFF	21 35 33.75668	158 06 14.97691	47175.528	489213.850	HI 3	-0 02 17.99	0.9999914		
211581220005	HALEMANO 1927	21 32 20.29673	158 02 22.85541	41222.294	495889.274	HI 3	-0 00 52.45	0.9999902	322.	10.42
211572320002	HALENA 1962	21 06 2.51727	157 14 51.10567	85064.979	439649.313	HI 2	-0 12 32.84	1.0000117	148.0	11.67
211572240019	HAUAKEA 2 1962	21 09 22.50026	157 07 44.14986	91175.055	451989.651	HI 2	-0 10 0.62	0.9999951	229.57	11.49

* For conversion of meters to U.S. Survey Feet multiply the meters by 39.37/12.0 which is 3.28083333333 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. (M)	GEOID HT (M)
211572240020	HAUAKEA HIGGS 1962	21 09 22.52738	157 07 44.20446	91175.894	451988.078	HI 2	-0 10 0.64	0.9999951	230 SC	11.49
211573430008	HAUIKI 1928	21 20 41.10140	157 52 33.80906	19722.359	512856.349	HI 3	0 02 42.40	0.9999920	81 SC	10.52
211573430046	HAWAII ASTRO IGY 1957	21 20 38.41672	157 54 58.35535	19637.042	508691.497	HI 3	0 01 49.79	0.9999909	29.	10.51
211573420154	HAWAIIAN ELECTRIC CO NW STACK	21 18 22.91389	157 51 50.16433	15473.349	514117.581	HI 3	0 02 57.98	0.9999925		
211573420152	HAWAIIAN ELECTRIC CO SE STACK	21 18 22.17621	157 51 49.69767	15450.672	514131.050	HI 3	0 02 58.15	0.9999925		
211573410065	HAWAIILOA HILL	21 26 52.69499	157 45 24.66225	31165.535	525203.942	HI 3	0 05 20.07	0.9999978	104 SC	10.44
211573410063	HAWAIILOA HILL 2 1941	21 26 52.74205	157 45 24.47617	31166.991	525209.298	HI 3	0 05 20.14	0.9999978	104 SC	10.44
211573410047	HEEIA 1872	21 26 41.53372	157 49 21.47393	30813.108	518385.701	HI 3	0 03 53.45	0.9999942	219.	10.45
211573410039	HEEIA MILL STACK	21 25 48.14529	157 48 27.30086	29172.926	519947.578	HI 3	0 04 13.09	0.9999949		
211573410037	HEEIA NRS OBSERVATION TOWER	21 25 38.84079	157 48 22.83822	28886.914	520076.442	HI 3	0 04 14.69	0.9999950		
211573410034	HEEIA RANGE TOWER	21 26 5.18109	157 48 18.13848	29697.207	520210.775	HI 3	0 04 16.49	0.9999950		
211573430102	HENRY	21 21 14.78723	157 53 49.33197	20756.823	510679.585	HI 3	0 02 14.97	0.9999914	50 SC	10.51
211573430071	HICKAM AFB BEACON	21 20 11.43675	157 57 19.48328	18805.597	504625.314	HI 3	0 00 58.40	0.9999903		
211573430063	HICKAM AFB CONTROL TOWER	21 19 58.68510	157 56 46.91490	18413.704	505563.910	HI 3	0 01 10.24	0.9999904		
211573430079	HICKAM AFB WATER TOWER	21 20 34.23924	157 57 43.84159	19506.719	503923.257	HI 3	0 00 49.55	0.9999902		
211572230007	HIKAUHI 1962	21 06 7.60202	157 10 6.11056	85193.385	447875.122	HI 2	-0 10 50.27	1.0000002	138.0	11.76
211581230046	HIKE 1932	21 34 46.71491	158 14 7.62413	45743.504	475616.001	HI 3	-0 05 11.75	0.9999973	7 SC	10.42
211581230045	HIKE 2	21 34 45.79919	158 14 5.79034	45715.260	475668.713	HI 3	-0 05 11.07	0.9999973	12.62	10.42
211581230052	HILL 1958	21 33 52.97715	158 14 23.44106	44091.401	475158.442	HI 3	-0 05 17.36	0.9999976	401.	10.46
211574340016	HINA 1969	21 37 39.27453	157 58 47.24351	51032.565	502092.326	HI 3	0 00 26.82	0.9999901	571.	10.09
211572310002	HOCK	21 11 7.66371	157 14 54.77947	94450.268	439577.662	HI 2	-0 12 37.05	1.0000118		
211573420102	HONOLULU 1350 ALA MOAN APT ANT	21 17 30.66614	157 50 53.10451	13867.940	515763.655	HI 3	0 03 18.59	0.9999931		
211573420097	HONOLULU 999 WILDER BLDG SHAFT	21 18 31.77979	157 50 36.20695	15748.003	516248.843	HI 3	0 03 24.88	0.9999933		
211573420101	HONOLULU ACADEMY TWR APT SHAFT	21 18 23.18092	157 50 52.32910	15483.084	515784.448	HI 3	0 03 19.00	0.9999931		
211573430051	HONOLULU AHUA PT RADAR TOWER	21 18 43.56687	157 55 30.00229	16104.302	507781.313	HI 3	0 01 38.13	0.9999907		
211573420095	HONOLULU ALA MOANA BLDG OBS LT	21 17 34.10461	157 50 34.67696	13974.212	516294.705	HI 3	0 03 25.29	0.9999933		
211573420161	HONOLULU ALOHA TOWER	21 18 25.36771	157 51 57.54797	15548.635	513904.712	HI 3	0 02 55.31	0.9999924	65 SC	10.57
211573420171	HONOLULU AMERICAN CANNERY TANK	21 19 1.17630	157 52 10.98278	16649.626	513516.598	HI 3	0 02 50.50	0.9999923		
211573420112	HONOLULU BOARD WTR SUPPLY STK	21 18 20.47972	157 51 9.85371	15399.528	515279.447	HI 3	0 03 12.63	0.9999929		
211573420180	HONOLULU BOARD WTR SUPPLY STK	21 19 40.35270	157 52 18.63894	17854.340	513294.975	HI 3	0 02 47.80	0.9999922		
211573420113	HONOLULU BUDDHIST MISS CEN TWR	21 19 5.96969	157 51 17.31892	16798.401	515063.002	HI 3	0 03 10.02	0.9999928		
211573420034	HONOLULU C JADE APT BLDG ANT	21 17 1.32110	157 48 8.10411	12970.685	520520.752	HI 3	0 04 18.41	0.9999952		
211573420142	HONOLULU CASTLE COOKE BLDG LT	21 18 30.25821	157 51 44.24835	15699.376	514287.888	HI 3	0 03 0.15	0.9999925		
211573420072	HONOLULU CENTRAL UNION CHURCH	21 17 55.87620	157 50 1.54634	14644.788	517248.948	HI 3	0 03 37.38	0.9999937		
211573420087	HONOLULU CITY HALL PAWAA TWR	21 17 58.44974	157 50 17.58073	14723.459	516786.714	HI 3	0 03 31.56	0.9999935		
211573420139	HONOLULU FIRST HAWAIIA BANK LT	21 18 28.51550	157 51 41.99266	15645.834	514352.946	HI 3	0 03 0.97	0.9999925		
211573420054	HONOLULU FOSTER TWR HOTEL LT	21 16 26.07084	157 49 24.28642	11883.940	518325.966	HI 3	0 03 50.65	0.9999941		
211573420200	HONOLULU HARBOR BEACON 3.	21 17 48.91333	157 52 18.06228	14426.968	513314.382	HI 3	0 02 47.78	0.9999922		
211573420160	HONOLULU HARBOR CHAN F RNG LT	21 18 18.37922	157 51 56.14195	15333.734	513945.418	HI 3	0 02 55.80	0.9999924		
211573420147	HONOLULU HARBOR CHAN R RNG LT	21 18 34.89735	157 51 46.76611	15841.992	514215.201	HI 3	0 02 59.25	0.9999925		
211573420153	HONOLULU HARBOR F RNG LT	21 18 28.91328	157 51 50.16007	15657.863	514117.544	HI 3	0 02 58.00	0.9999925		
211573420150	HONOLULU HAWAII ELEC N TW STK	21 18 20.76398	157 51 48.33520	15407.272	514170.355	HI 3	0 02 58.64	0.9999925		
211573420155	HONOLULU HAWAII ELEC NE STK	21 18 21.89257	157 51 50.22287	15441.936	514115.921	HI 3	0 02 57.96	0.9999925		
211573420156	HONOLULU HAWAII ELEC NW STACK	21 18 23.31587	157 51 50.36958	15485.707	514111.654	HI 3	0 02 57.91	0.9999925		
211573420149	HONOLULU HAWAII ELEC SE STACK	21 18 20.14121	157 51 47.93508	15388.129	514181.904	HI 3	0 02 58.79	0.9999925		

* For conversion of meters to U.S. Survey Feet multiply the meters by 39.37/12.0 which is 3.28083333333 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)
211573420157	HONOLULU HAWAII ELEC SW STACK	21 18 21.70795	157 51 50.55114	15436.249	514106.464	HI 3	0 02 57.84	0.9999925		
211573420170	HONOLULU HAWAIIAN GRAIN ELEV	21 18 42.40285	157 52 9.86262	16072.263	513549.358	HI 3	0 02 50.87	0.9999923		
211573420177	HONOLULU HAWAIIAN PINEAPPLE TK	21 19 1.12971	157 52 16.71740	16648.057	513351.333	HI 3	0 02 48.42	0.9999922		
211573420128	HONOLULU HAWAIIAN TEL BLDG ANT	21 18 33.72241	157 51 32.98352	15806.206	514612.454	HI 3	0 03 4.25	0.9999926		
211573420086	HONOLULU HILTON RAINBOW TWR LT	21 16 56.05268	157 50 17.33245	12804.409	516795.839	HI 3	0 03 31.49	0.9999935		
211573420088	HONOLULU ILIKAI HOTEL CUPOLA	21 17 3.47636	157 50 18.70771	13032.688	516755.962	HI 3	0 03 31.01	0.9999935		
211573420069	HONOLULU IMP HAWAII HOTEL ANT	21 16 42.34540	157 49 52.30853	12383.590	517517.625	HI 3	0 03 40.53	0.9999938		
211573420132	HONOLULU INCINERATOR STACK	21 17 31.71967	157 51 37.98226	13899.148	514470.073	HI 3	0 03 2.29	0.9999926		
211573430056	HONOLULU INTL AP B L 9 PLUS OO	21 19 39.26959	157 55 36.72223	17817.382	507586.850	HI 3	0 01 35.75	0.9999907	6 SC	10.52
211573430040	HONOLULU INTL AP BL 83 PLUS 60	21 19 39.25433	157 54 17.79310	17818.127	509861.344	HI 3	0 02 4.46	0.9999912	6 SC	10.53
211573430043	HONOLULU INTL APT CONT TWR BCN	21 19 21.70634	157 54 39.45503	17278.062	509237.419	HI 3	0 01 56.56	0.9999911		
211573430049	HONOLULU INTL APT CONT TWR BCN	21 19 55.32718	157 55 11.33704	18311.599	508318.121	HI 3	0 01 45.01	0.9999909		
211573420127	HONOLULU IOLANI PALACE FP	21 18 24.14882	157 51 31.81725	15511.794	514646.330	HI 3	0 03 4.65	0.9999926		
211573420130	HONOLULU JUDICIARY BLDG FS	21 18 19.97862	157 51 35.49025	15383.443	514540.584	HI 3	0 03 3.31	0.9999926		
211573420082	HONOLULU KAISER HOTEL KHVH TWR	21 16 54.55930	157 50 13.68491	12758.587	516901.030	HI 3	0 03 32.81	0.9999935		
211573420144	HONOLULU KALANIHUIA APT SHAFT	21 18 57.85533	157 51 46.18224	16548.094	514231.414	HI 3	0 02 59.51	0.9999925		
211573420172	HONOLULU KAPALAMA INCIN STACK	21 19 21.03213	157 52 11.30689	17260.297	513506.753	HI 3	0 02 50.43	0.9999923		
211573420135	HONOLULU KEWALO BASIN KGU TWR	21 17 29.66331	157 51 39.28709	13835.870	514432.519	HI 3	0 03 1.82	0.9999926		
211573420203	HONOLULU KING BLDG EAMMA GRDNS	21 18 54.62724	157 51 24.29259	16449.373	514862.346	HI 3	0 03 7.46	0.9999927		
211573420196	HONOLULU LIGHTHOUSE	21 18 6.01579	157 52 7.36112	14953.217	513622.383	HI 3	0 02 51.70	0.9999923		
211573420143	HONOLULU LONGITUOE MON 1903	21 18 12.33657	157 51 45.56558	15148.152	514250.405	HI 3	0 02 59.63	0.9999925	3 SC	10.57
211573420202	HONOLULU MAKIKI TOWER APT ANT	21 18 17.23532	157 50 7.49921	15301.521	517076.686	HI 3	0 03 35.27	0.9999936		
211573420137	HONOLULU MALUHIA HOSP FLAGPOLE	21 19 45.53451	157 51 40.32189	18014.646	514399.013	HI 3	0 03 1.75	0.9999926		
211573420103	HONOLULU MCKINLEY HSCH ADM CUP	21 17 56.56654	157 50 53.37513	14664.514	515755.088	HI 3	0 03 18.55	0.9999931		
211573430052	HONOLULU MOANALUA WATER TANK	21 21 1.99589	157 55 30.66828	20361.767	507760.097	HI 3	0 01 38.06	0.9999907		
211573420053	HONOLULU MOILILI BUDDHIST CH	21 17 28.07965	157 49 22.96946	13791.098	518361.793	HI 3	0 03 51.31	0.9999942		
211573420080	HONOLULU MORMON CHURCH SPIRE	21 17 59.13812	157 50 10.68534	14744.835	516985.434	HI 3	0 03 34.07	0.9999936		
211573420098	HONOLULU NATIONAL CEMETERY FP	21 18 42.67349	157 50 42.72080	16082.860	516060.781	HI 3	0 03 22.54	0.9999932		
211573420119	HONOLULU NEW CITY HALL CUPOLA	21 18 19.50265	157 51 25.69598	15369.057	514822.880	HI 3	0 03 6.87	0.9999927		
211573420140	HONOLULU NEW INCINERATOR STACK	21 17 36.86742	157 51 42.28727	14057.360	514345.847	HI 3	0 03 0.74	0.9999925		
211573420030	HONOLULU RADIO STA KAIM TOWER	21 16 56.28333	157 47 58.35814	12816.100	520801.882	HI 3	0 04 21.93	0.9999953		
211573430010	HONOLULU RADIO STA KCCN MAST	21 19 16.03186	157 52 36.62813	17105.924	512777.167	HI 3	0 02 41.21	0.9999920		
211573420090	HONOLULU RADIO STA KGMB TOWER	21 17 36.53209	157 50 23.81119	14049.185	516607.821	HI 3	0 03 29.24	0.9999934		
211573420081	HONOLULU RADIO STA KHON TOWER	21 17 15.25065	157 50 10.77386	13395.048	516984.283	HI 3	0 03 33.92	0.9999936		
211573420084	HONOLULU RADIO STA KHVH TOWER	21 17 0.51209	157 50 14.42062	12941.647	516879.633	HI 3	0 03 32.56	0.9999935		
211573420117	HONOLULU RADIO STA KIKI TOWER	21 17 48.01910	157 51 22.59525	14400.844	514913.130	HI 3	0 03 7.92	0.9999927		
211573420056	HONOLULU RADIO STA KORL TOWER	21 17 8.36169	157 49 27.21267	13184.524	518240.162	HI 3	0 03 49.71	0.9999941		
211573420079	HONOLULU RADIO STA KPOI TOWER	21 17 16.60193	157 50 9.78335	13436.637	517012.791	HI 3	0 03 34.28	0.9999936		
211573420083	HONOLULU ROOSEVELT H SCH SPIRE	21 18 37.06785	157 50 13.75009	15911.296	516895.896	HI 3	0 03 33.05	0.9999935		
211573420062	HONOLULU ROYAL HAWAIIAN C TWR	21 16 38.87177	157 49 44.40438	12277.001	517745.590	HI 3	0 03 43.39	0.9999939		
211573420035	HONOLULU SAC HEART ACAD CROSS	21 17 9.54777	157 48 23.91429	13223.137	520064.704	HI 3	0 04 12.70	0.9999950		
211573420120	HONOLULU ST ANDREW CATH HI TWR	21 18 35.94066	157 51 25.98068	15874.611	514814.217	HI 3	0 03 6.80	0.9999927		
211573420037	HONOLULU ST LOUIS H SCH FP	21 17 22.17538	157 48 29.47089	13611.311	519904.062	HI 3	0 04 10.72	0.9999949		
211573420138	HONOLULU ST THERESAS CH CROSS	21 19 27.54743	157 51 40.59987	17461.434	514391.489	HI 3	0 03 1.61	0.9999926		
211573430022	HONOLULU TRIPLER HOSP TWIN LTS	21 21 34.82326	157 53 24.99932	21373.520	511380.222	HI 3	0 02 23.87	0.9999916		

* 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)
211573420169	HONOLULU TV STA KHVH MAST	21 17 44.71587	157 52 8.43922	14298.100	513591.854	HI 3	0 02 51.26	0.9999923		
211573420107	HONOLULU TV STA KHVH TOWER	21 17 32.70559	157 50 58.54257	13930.514	515606.849	HI 3	0 03 16.62	0.9999930		
211573420091	HONOLULU TV STATION KGMB TOWER	21 17 34.52579	157 50 25.97742	13987.417	516545.445	HI 3	0 03 28.45	0.9999934		
211573420110	HONOLULU TV STATION KONA TOWER	21 17 35.58012	157 51 4.05549	14018.771	515447.862	HI 3	0 03 14.62	0.9999929		
211573420047	HONOLULU U HAWAII ELEC LAB TWR	21 17 54.95213	157 49 8.10018	14618.064	518789.438	HI 3	0 03 56.79	0.9999944		
211573420201	HONOLULU UNIV HAWAII FLAGPOLE	21 17 50.26583	157 49 13.25325	14473.764	518641.077	HI 3	0 03 54.90	0.9999943		
211573420060	HONOLULU WAIKIKI PLAZA FP	21 16 43.60984	157 49 40.83838	12422.835	517848.228	HI 3	0 03 44.70	0.9999939		
211573420071	HONOLULU WAIKIKI SH APT SE FP	21 16 41.16560	157 50 0.05964	12347.067	517294.225	HI 3	0 03 37.72	0.9999937		
211582120005	HONOULIULI 1873	21 22 10.22713	158 01 19.47146	22458.585	497710.530	HI 3	-0 00 28.96	0.9999901	15 SC	10.49
211581230064	HORN	21 33 37.79700	158 14 18.21772	43624.280	475308.007	HI 3	-0 05 15.38	0.9999975	406 SC	10.47
211573430025	HYDRANT 4859. 1964	21 19 16.97004	157 53 30.14067	17133.645	511235.012	HI 3	0 02 21.75	0.9999916	3 SC	10.54
211572310008	ILIO PT COAST GUARD LORAN MAST	21 12 58.76007	157 15 22.54901	97870.068	438789.365	HI 2	-0 12 48.15	1.0000129		
211573420159	IMMIGRATION BUILDING FLAGSTAFF	21 18 2.28767	157 51 52.08923	14838.929	514062.648	HI 3	0 02 57.24	0.9999924		
211582140029	IRON PIPE NR PUU O HULU MAKAI	21 24 2.93908	158 10 11.56927	25934.501	482385.212	HI 3	-0 03 43.16	0.9999938	263 SC	10.50
211573420019	K 2	21 16 41.21676	157 47 2.33155	12354.849	522417.531	HI 3	0 04 42.21	0.9999962	15.63	10.67
211581230043	K 3	21 30 2.21868	158 13 47.05571	36992.491	476194.823	HI 3	-0 05 3.13	0.9999970	5.22	10.54
211581210002	KA 1910	21 39 51.64981	158 00 1.36275	55103.866	499960.820	HI 3	-0 00 0.50	0.9999900	330 SC	9.89
211574320006	KAAAWA 1932	21 32 31.78027	157 50 32.18545	41583.221	516338.766	HI 3	0 03 28.49	0.9999933	2 SC	10.39
211581230006	KAALA 1965	21 30 28.85478	158 08 34.49586	37800.997	485192.013	HI 3	-0 03 8.63	0.9999927	1225.	10.49
211572240005	KAANA 1925	21 07 34.00554	157 08 56.07647	87844.470	449904.420	HI 2	-0 10 25.73	0.9999977	384 SC	11.66
211574330006	KAAUMAKUA 1927	21 30 5.00614	157 53 52.37258	37064.187	510581.362	HI 3	0 02 14.74	0.9999914	818 SC	10.45
211581320017	KAENA 1875	21 34 27.02533	158 16 45.23667	45145.406	471080.778	HI 3	-0 06 9.63	1.0000003	13 SC	10.47
211581230047	KAENA ASTRO 1967	21 33 36.05329	158 14 9.09582	43570.250	475570.375	HI 3	-0 05 12.02	0.9999974	456.	10.47
211581320021	KAENA POINT	21 34 27.59608	158 16 45.65631	45162.982	471068.737	HI 3	-0 06 9.79	1.0000003	13.95	10.47
211581320022	KAENA POINT LIGHT	21 34 27.59665	158 16 45.81549	45163.007	471064.158	HI 3	-0 06 9.85	1.0000003	15 SC	10.47
211581230056	KAENA POINT RADAR DOME	21 33 44.11304	158 14 31.59626	43819.134	474923.390	HI 3	-0 05 20.32	0.9999978		
211581320001	KAENA POINT RADIO MAST	21 33 43.40885	158 14 52.93878	43798.440	474309.309	HI 3	-0 05 28.16	0.9999982		
211581320014	KAENA S 1932	21 34 23.54134	158 16 18.09106	45036.869	471861.536	HI 3	-0 05 59.64	0.9999998	159 SC	10.46
211572240014	KAO 1925	21 12 47.01943	157 13 44.47524	97498.688	441616.430	HI 2	-0 12 12.55	1.0000088	179.0	11.12
211573420016	KAHALA 1928	21 16 8.66444	157 46 39.57003	11354.594	523075.080	HI 3	0 04 50.36	0.9999966	2 SC	10.70
211573410052	KAHALU LANDING	21 27 48.42404	157 50 0.98232	32869.150	517245.909	HI 3	0 03 39.19	0.9999937		
211581230019	KAHANAHAIKI USE	21 32 36.65839	158 11 39.13604	41737.517	479882.658	HI 3	-0 04 16.73	0.9999950	644 SC	10.48
211573420136	KAHAUIKI 1969	21 21 31.38091	157 51 40.09340	21270.036	514402.725	HI 3	0 03 2.07	0.9999926	341.	10.52
211582130001	KAHE 1875	21 21 6.42048	158 07 40.33044	20501.392	486736.874	HI 3	-0 02 47.60	0.9999922	85.	10.49
211572240013	KAHEKUPAPAU 1925	21 08 5.04726	157 12 23.63687	88818.420	443918.251	HI 2	-0 11 40.82	1.0000055	348 SC	11.56
211572310001	KAHENAWAI	21 12 47.09513	157 14 54.26961	97508.288	439603.597	HI 2	-0 12 37.81	1.0000117	92 SC	11.12
211572230011	KAHUALEWA 1925	21 06 33.81848	157 11 45.16923	86008.934	445018.882	HI 2	-0 11 26.16	1.0000040	243 SC	11.70
211574340017	KAHUKU 1875	21 42 33.40646	157 58 49.66648	60079.132	502021.508	HI 3	0 00 26.02	0.9999901	7 SC	9.61
211574340011	KAHUKU MILL CHIMNEY	21 40 44.09044	157 56 59.73903	56717.613	505182.100	HI 3	0 01 6.59	0.9999903		
211574340022	KAHUKU NEW 1927	21 42 34.85094	157 58 26.28558	60123.659	502693.508	HI 3	0 00 34.67	0.9999901	6 SC	9.61
211574340024	KAHUKU NEW 2 1965	21 42 34.85025	157 58 26.45641	60123.637	502688.598	HI 3	0 00 34.60	0.9999901	4.	9.61
211581210003	KAHUKU RADAR DOME	21 39 50.65112	158 00 2.17588	55073.150	499937.442	HI 3	-0 00 0.80	0.9999900		
211574340012	KAHUKU RADIO BEACON	21 41 30.83093	157 57 12.26313	318465.047	246064.062	HI 1	-0 54 26.29	1.0007632	11.	9.71
211581210007	KAHUKU WATER TANK	21 41 9.58934	158 00 34.56288	57501.075	499006.443	HI 3	-0 00 12.77	0.9999900		
211573410020	KAILUA 1872	21 23 2.27190	157 46 29.74943	24075.817	523340.019	HI 3	0 04 55.43	0.9999967	305.	10.51

* 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)
211573410003	KAILUA KANEOME RESERVOIR	21 25 23.82119	157 45 12.01440	28432.682	525572.419	HI 3	0 05 24.34	0.9999981		10.46
211573410004	KAILUA TANK	21 25 26.63190	157 45 15.06584	28518.991	525484.407	HI 3	0 05 23.24	0.9999980		
211573420029	KAIMUKI 1872	21 16 40.73976	157 47 57.83291	12338.068	520817.629	HI 3	0 04 22.07	0.9999954	92.0	10.66
211573420028	KAIMUKI FIRE STATION	21 16 42.28523	157 47 57.74732	12385.603	520820.036	HI 3	0 04 22.11	0.9999954		
211573420020	KAIMUKI KAHALA TOWERS ANTENNA	21 16 44.66401	157 47 5.60295	12460.743	522323.083	HI 3	0 04 41.04	0.9999962		
211573420023	KAIMUKI LIBERTY HOUSE FLAGPOLE	21 16 37.40629	157 47 8.33111	12237.420	522244.742	HI 3	0 04 40.02	0.9999961		
211574330011	KAIPAPAU 1927	21 37 2.97139	157 55 19.99989	49917.877	508052.785	HI 3	0 01 43.15	0.9999908	193.0	10.13
211572240012	KAKAAKO 1925	21 09 3.02992	157 12 4.67237	90599.839	444471.468	HI 2	-0 11 34.49	1.0000048	294 SC	11.48
211572230003	KALA 1962	21 05 39.01382	157 08 15.93566	84304.440	451052.255	HI 2	-0 10 10.38	0.9999963	2.0	11.83
211573420141	KALAEPOHAKU	21 19 47.57906	157 51 42.73657	18077.466	514329.375	HI 3	0 03 0.87	0.9999925	65.	10.54
211572210006	KALAMAULA	21 07 19.16609	157 01 30.84571	87354.112	462750.951	HI 2	-0 07 45.17	0.9999838	227 SC	11.75
211573430021	KALIHI 1928	21 19 15.70838	157 53 24.96815	17094.945	511384.102	HI 3	0 02 23.63	0.9999916	2 SC	10.54
211573430088	KALIHI 2 1964	21 19 17.98807	157 53 30.47757	17164.949	511225.282	HI 3	0 02 21.63	0.9999916	3 SC	10.54
211573430036	KALIHI CHANNEL DATUM POINT	21 18 15.89944	157 53 47.67134	15255.043	510731.043	HI 3	0 02 15.28	0.9999914		
211573430033	KALIHI CHANNEL F RNG LT	21 18 32.50526	157 53 42.95380	15765.855	510866.670	HI 3	0 02 17.02	0.9999915		
211573430031	KALIHI CHANNEL GREEN LIGHT 13	21 18 32.60904	157 53 41.36416	15769.077	510912.482	HI 3	0 02 17.60	0.9999915		
211573430027	KALIHI CHANNEL GREEN LIGHT 17	21 18 47.52052	157 53 37.13345	16227.770	511034.104	HI 3	0 02 19.16	0.9999915		
211573430023	KALIHI CHANNEL GREEN LIGHT 19	21 18 50.83555	157 53 26.27141	16329.940	511347.075	HI 3	0 02 23.11	0.9999916		
211573430037	KALIHI CHANNEL GREEN LIGHT 5	21 17 58.34190	157 53 49.92848	14715.009	510666.341	HI 3	0 02 14.43	0.9999914		
211573430035	KALIHI CHANNEL GREEN LIGHT 9	21 18 17.24553	157 53 47.39209	15296.448	510739.064	HI 3	0 02 15.38	0.9999914		
211573430029	KALIHI CHANNEL R RNG LT	21 18 52.49605	157 53 40.32069	16380.734	510942.147	HI 3	0 02 18.01	0.9999915		
211573430028	KALIHI CHANNEL RED LIGHT 12	21 18 29.37965	157 53 37.22706	15669.835	511031.783	HI 3	0 02 19.09	0.9999915		
211573430026	KALIHI CHANNEL RED LIGHT 16	21 18 37.24282	157 53 31.86029	15911.777	511186.292	HI 3	0 02 21.06	0.9999915		
211573430020	KALIHI CHANNEL RED LIGHT 20	21 18 46.02599	157 53 23.26855	16182.079	511433.719	HI 3	0 02 24.20	0.9999916		
211573430034	KALIHI CHANNEL RED LIGHT 6	21 17 57.57985	157 53 45.08103	14691.663	510806.072	HI 3	0 02 16.19	0.9999914		
211573430032	KALIHI CHANNEL RED LIGHT 8	21 18 16.08414	157 53 42.53181	15260.822	510879.168	HI 3	0 02 17.14	0.9999915		
211573430007	KALIHI FIRE STATION	21 19 53.25136	157 52 33.36675	18250.708	512870.253	HI 3	0 02 42.47	0.9999920		
211573420021	KALIPEAMOA	21 17 53.86999	157 47 6.34342	14589.187	522298.839	HI 3	0 04 41.01	0.9999961	340.27	10.64
211572230002	KALUAKAWAHINE 1925	21 06 26.12875	157 07 55.13420	85751.686	451656.869	HI 2	-0 10 3.25	0.9999955	153 SC	11.77
211573130027	KALUANUI RIDGE 1969	21 19 0.16613	157 42 22.87888	16641.351	530465.289	HI 3	0 06 24.29	1.0000015	483.	10.66
211573430060	KAM 1927	21 19 8.46750	157 56 2.26603	16869.720	506851.153	HI 3	0 01 26.43	0.9999906	7 SC	10.52
211573420114	KAMEHAMEHA SCHOOL CUPOLA	21 20 31.68274	157 51 19.59661	19434.505	514994.942	HI 3	0 03 9.39	0.9999928		
211573410022	KANEOME 1926	21 24 29.47382	157 46 52.59103	26756.873	522678.308	HI 3	0 04 47.41	0.9999964	31 SC	10.48
211573410002	KANEOME BAY E RADIO TOWER OF 3	21 27 6.41443	157 45 9.40930	31588.182	525642.462	HI 3	0 05 25.71	0.9999981		
211573410064	KANEOME BAY HAWAIILOA HILL BCN	21 26 52.97527	157 45 24.54595	31174.161	525207.278	HI 3	0 05 20.12	0.9999978		
211573410018	KANEOME BAY MCAS RADIO BEAM	21 26 40.46531	157 46 21.54175	30786.938	523566.728	HI 3	0 04 59.23	0.9999969		
211573410009	KANEOME HAWAIIAN TEL MICROWAVE	21 25 20.76050	157 45 25.26706	28337.952	525190.910	HI 3	0 05 19.49	0.9999978		
211573410100	KANEOME MCAS WINDSOCK	21 26 38.74884	157 46 38.35831	30733.450	523082.584	HI 3	0 04 53.08	0.9999966		
211573410101	KANEOME MCAS WINDSOCK ECC	21 26 38.76077	157 46 38.41208	30733.815	523081.035	HI 3	0 04 53.06	0.9999966	3 SC	10.45
211573410069	KANEOME NEW	21 24 31.12847	157 46 56.08501	26807.623	522577.607	HI 3	0 04 46.14	0.9999963	21 SC	
211573410103	KANEOME PASSAGE RNG FRONT LT	21 26 5.13521	157 48 18.12335	29695.797	520211.213	HI 3	0 04 16.50	0.9999950		
211573410088	KANEOME PASSAGE RNG REAR LT	21 25 53.71911	157 48 27.40855	29344.351	519944.266	HI 3	0 04 13.07	0.9999949		
211573410025	KANEOME RAD STA KLEI MAST	21 23 39.94000	157 47 23.55673	25232.190	521788.495	HI 3	0 04 35.94	0.9999959		
211573410030	KANEOME RADIO STA KANI NE TWR	21 24 59.41389	157 47 59.28507	27675.148	520756.261	HI 3	0 04 23.17	0.9999953		
211573410032	KANEOME RADIO STA KANI SW TWR	21 24 57.81401	157 48 0.81949	27625.886	520712.133	HI 3	0 04 22.60	0.9999953		

* 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)
211574330007	KAPAKA 1910	21 36 8.96141	157 53 53.02551	48258.155	510555.252	HI 3	0 02 15.11	0.9999914	2 SC	10.19
211573430003	KAPALAMA BASIN LIGHT 1	21 18 32.79619	157 52 22.97397	15776.496	513171.726	HI 3	0 02 46.08	0.9999921		
211573430012	KAPALAMA BASIN LIGHT 3	21 18 45.85305	157 52 43.37437	16177.605	512583.467	HI 3	0 02 38.70	0.9999920		
211573410028	KAPAPA ISLAND	21 28 36.28462	157 47 57.25775	34345.340	520806.101	HI 3	0 04 24.61	0.9999953		
211582110034	KAPU 1910	21 24 14.08188	158 05 52.12617	26270.839	489858.070	HI 3	-0 02 8.51	0.9999913	845 SC	10.49
211582110035	KAPU ASTRO 1961	21 24 8.94800	158 05 53.11197	26112.959	489829.578	HI 3	-0 02 8.86	0.9999913	831.	10.49
211582110047	KAPUAI NEW 1927	21 22 35.20158	158 04 20.63906	23228.262	492491.679	HI 3	-0 01 35.00	0.9999907	319.	10.49
211582110046	KAPUAI OLD 1927	21 22 35.08172	158 04 20.58084	23224.575	492493.355	HI 3	-0 01 34.98	0.9999907	320 SC	10.49
211582110036	KAUA 1927	21 26 29.34939	158 05 55.34059	30431.183	489768.106	HI 3	-0 02 9.90	0.9999913	954 SC	10.48
211581230044	KAUHAO 1932	21 34 25.32809	158 14 1.99487	45085.472	475776.954	HI 3	-0 05 9.60	0.9999972	333 SC	10.43
211572210010	KAULAPUU AERO BEACON RED LIGHT	21 09 0.37993	157 03 4.45225	90473.227	460057.316	HI 2	-0 08 19.53	0.9999864		11.56
211572210004	KAULUWAI	21 09 28.62452	157 00 48.04848	91332.819	463994.621	HI 2	-0 07 30.48	0.9999827	476 SC	11.52
211572220004	KAUNAKAKAI 1925	21 05 10.30228	157 01 19.47901	83390.230	463070.103	HI 2	-0 07 40.33	0.9999835	2 SC	11.94
211572220010	KAUNAKAKAI HARBOR ENT RNG F LT	21 05 15.78380	157 01 29.16292	83559.438	462790.971	HI 2	-0 07 43.84	0.9999838		
211572220008	KAUNAKAKAI HARBOR ENT RNG R LT	21 05 20.73161	157 01 25.65052	83711.377	462892.691	HI 2	-0 07 42.61	0.9999837		
211572220016	KAUNAKAKAI HARBOR SHACK	21 04 52.00500	157 01 43.83761	82829.091	462365.749	HI 2	-0 07 48.98	0.9999842		
211572220006	KAUNAKAKAI REAR RANGE LIGHT	21 05 21.76158	157 01 24.76991	83742.996	462918.179	HI 2	-0 07 42.30	0.9999837		
211572220005	KAUNAKAKAI WIRELESS MAST	21 05 10.66682	157 01 22.35446	83401.627	462987.133	HI 2	-0 07 41.36	0.9999836		
211581230008	KAUPAKUHALE 1927	21 32 22.43222	158 08 56.44151	41294.821	484563.715	HI 3	-0 03 16.95	0.9999929	479 SC	10.46
211572310014	KAUPOA 1925	21 07 50.24990	157 17 30.68295	88395.800	435056.701	HI 2	-0 13 31.39	1.0000188	29.0	11.51
211581230017	KAWAIAPEI WINDSOCK	21 34 51.13095	158 11 30.39142	45873.124	480139.369	HI 3	-0 04 13.94	0.9999949		
211581230013	KAWAIIHAPAI	21 34 53.74835	158 10 25.41390	45951.434	482008.685	HI 3	-0 03 50.04	0.9999940	3 SC	10.37
211581220010	KAWAILOA 1927	21 35 58.28172	158 03 38.98994	47927.458	493701.086	HI 3	-0 01 20.61	0.9999905	185.0	10.24
211581210005	KAWELA 1875	21 39 49.57868	158 00 8.04352	55040.167	499768.743	HI 3	-0 00 2.97	0.9999900	334.	9.89
211582140037	KEAAU 1875	21 29 24.79234	158 12 29.13904	35838.252	478435.978	HI 3	-0 04 34.44	0.9999957	692 SC	10.53
211582140038	KEAAU 2 1927	21 29 24.58093	158 12 29.39869	35831.760	478428.495	HI 3	-0 04 34.54	0.9999957	691.	10.53
211582140060	KEAAU USE	21 29 24.66018	158 12 29.31551	35834.194	478430.892	HI 3	-0 04 34.51	0.9999957	692 SC	10.53
211581230031	KEALIA 1927	21 33 3.78365	158 12 38.83780	42574.026	478165.887	HI 3	-0 04 38.75	0.9999959	587 SC	10.47
211581230022	KEALIA USE 1914	21 34 55.49908	158 11 55.90749	46008.394	479405.512	HI 3	-0 04 23.34	0.9999952	3 SC	10.38
211574340007	KEANA 1927	21 40 32.05979	157 56 19.70454	56348.000	506333.149	HI 3	0 01 21.37	0.9999905	7 SC	9.81
211581230028	KEAWAULA ARMY	21 32 54.69667	158 12 31.21799	42294.247	478384.759	HI 3	-0 04 35.92	0.9999958	594 SC	10.48
211581230034	KEEKEE 1932	21 34 21.33123	158 12 50.56412	44959.588	477831.758	HI 3	-0 04 43.32	0.9999961	306 SC	10.42
211573410021	KEKEPA ISLAND	21 27 42.87977	157 46 31.99273	32706.138	523263.050	HI 3	0 04 55.64	0.9999967		
211582140023	KEPU USE	21 28 40.72091	158 13 33.20020	34485.333	476590.008	HI 3	-0 04 57.75	0.9999968	1 SC	10.53
211582140024	KEPUHI	21 28 40.99626	158 13 34.00805	34493.836	476566.765	HI 3	-0 04 58.05	0.9999968	1 SC	10.53
211582140022	KEPUHI NEW 1927	21 29 8.16731	158 13 25.76501	35329.177	476805.257	HI 3	-0 04 55.13	0.9999966	390.	10.53
211573420126	KEWALO 1928	21 17 38.27044	157 51 28.60001	14100.861	514740.325	HI 3	0 03 5.72	0.9999927	3 SC	10.59
211573420125	KEWALO BASIN F RNG LT	21 17 38.68305	157 51 27.84891	14113.571	514761.963	HI 3	0 03 5.99	0.9999927		
211573420121	KEWALO BASIN R RNG LT	21 17 40.57880	157 51 26.45602	14171.912	514802.058	HI 3	0 03 6.50	0.9999927		
211572320006	KIHAAPILANI 1915	21 06 9.48288	157 17 44.26846	85298.206	434652.424	HI 2	-0 13 35.26	1.0000194	65.41	11.61
211572210002	KILOHANA 1925	21 10 29.65971	157 00 20.56784	93208.226	464791.437	HI 2	-0 07 20.89	0.9999820	509 SC	11.40
211573130013	KOKO CRATER	21 17 6.22174	157 41 10.62957	13140.905	532554.435	HI 3	0 06 49.97	1.0000031		
211573130022	KOKO HEAD 1872	21 15 50.79077	157 42 13.30129	10817.480	530752.245	HI 3	0 06 26.86	1.0000017	199 SC	10.79
211573130021	KOKO HEAD 2 1925	21 15 56.15420	157 42 10.48851	10982.588	530833.026	HI 3	0 06 27.91	1.0000017	198 SC	10.79
211573130023	KOKO HEAD 3 1927	21 15 46.78858	157 42 14.58925	10694.320	530715.345	HI 3	0 06 26.37	1.0000017	196.	10.79

* For conversion of meters to U.S. Survey Feet multiply the meters by 39.37/12.0 which is 3.28083333333 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)
211573130030	KOKO HEAD DATUM POINT	21 15 35.68295	157 42 34.78335	10351.679	530133.781	HI 3	0 06 19.00	1.0000012		
211582110043	KOLEKOLE PASS USN TOWER	21 28 26.83693	158 06 46.94612	34045.650	488284.751	HI 3	-0 02 28.98	0.9999917		
211572230009	KOLO 1962	21 05 47.41726	157 11 2.90863	84577.851	446233.862	HI 2	-0 11 10.55	1.0000024	83.0	11.76
211573420186	KONAHUANUI 1872	21 21 11.92333	157 47 19.56572	20679.953	521909.569	HI 3	0 04 36.89	0.9999959	947 SC	10.55
211573420185	KONAHUANUI 2 1927	21 21 12.04997	157 47 19.48890	20683.851	521911.777	HI 3	0 04 36.92	0.9999959	947 SC	10.55
211573130011	KOOLAU RNG NIKE SITE RADAR ANT	21 19 13.51193	157 40 51.58742	17056.927	533095.416	HI 3	0 06 57.55	1.0000035		
211572240011	KOPALA 1925	21 07 44.50453	157 11 59.21218	88184.245	444620.898	HI 2	-0 11 31.84	1.0000046	391 SC	11.60
211581320016	KPH 1965	21 34 22.38731	158 16 21.85839	45001.564	471753.092	HI 3	-0 06 1.02	0.9999999	99 SC	10.46
211581320015	KPH SEISMOMETER 1965	21 34 22.74866	158 16 21.65294	45012.668	471759.022	HI 3	-0 06 0.94	0.9999999		10.46
211574320008	KUALOA 1927	21 31 39.32082	157 50 34.36326	39969.691	516277.724	HI 3	0 03 27.56	0.9999933	497 SC	10.42
211573130026	KUAPA 1928	21 17 21.38943	157 42 18.30317	13603.638	530602.839	HI 3	0 06 25.48	1.0000016	50.0	10.73
211572240008	KUIKUI 1925	21 08 16.68495	157 10 2.43682	89162.998	447993.650	HI 2	-0 10 50.00	1.0000001	438 SC	11.58
211581210001	KUILIMA 1932	21 42 24.54014	157 59 57.61997	59806.304	500068.407	HI 3	0 00 0.88	0.9999900	2 SC	9.63
211573130039	KULIOUOU 1928	21 17 0.43256	157 43 52.83393	12954.229	527879.122	HI 3	0 05 51.07	0.9999996	50.	10.72
211582110044	KUM 1927	21 28 41.57750	158 07 6.14205	34499.422	487732.477	HI 3	-0 02 36.03	0.9999919	781 SC	10.49
211573420058	KUMULAE	21 17 33.80338	157 49 31.38696	13966.865	518118.971	HI 3	0 03 48.27	0.9999941		
211582110029	KUNIA 1969	21 26 40.32243	158 03 35.88385	30766.638	493783.839	HI 3	-0 01 18.93	0.9999905	268.	10.47
211582110025	KUNIA FACILITY RADAR TOWER	21 28 22.69176	158 03 16.05158	33914.911	494355.985	HI 3	-0 01 11.77	0.9999904		
211582110030	KUNIA RADIO STA KAHU MAST	21 26 32.17803	158 03 37.41581	30516.166	493739.631	HI 3	-0 01 19.48	0.9999905		
211573130040	KUPAUA 1969	21 17 8.69612	157 43 53.01812	13208.372	527873.380	HI 3	0 05 51.04	0.9999996	100.	10.71
211572320008	LAU 1962	21 06 7.31492	157 18 31.59133	85236.984	433286.358	HI 2	-0 13 52.27	1.0000216	14.0	11.60
211572320007	LAU POINT LIGHT	21 05 58.89328	157 18 18.40117	84976.440	433666.005	HI 2	-0 13 47.44	1.0000210		
211582140020	LAHILAH 1927	21 27 37.24111	158 12 48.05678	32531.106	477886.918	HI 3	-0 04 41.00	0.9999960	71.	10.53
211574340002	LAIE 1 1927	21 38 55.07967	157 54 56.29091	53366.320	508732.782	HI 3	0 01 52.04	0.9999909	13 SC	9.96
211574340001	LAIE POINT	21 38 54.42368	157 54 51.94652	53346.213	508857.711	HI 3	0 01 53.64	0.9999910	8.96	9.96
211574340003	LAIE-LAIE 2 1875	21 38 54.77543	157 55 6.50467	53356.806	508439.103	HI 3	0 01 48.27	0.9999909	16 SC	9.96
211572240010	LAINA KAA 1885	21 12 30.89921	157 11 52.34214	96991.736	444848.629	HI 2	-0 11 31.83	1.0000042	202.0	11.14
211581210004	LAK 1927	21 39 49.06022	158 00 3.84162	55024.219	499889.550	HI 3	-0 00 1.42	0.9999900	330 SC	9.89
211581230016	LAND 1932	21 34 57.17508	158 11 26.66500	46058.890	480246.796	HI 3	-0 04 12.58	0.9999948	2 SC	10.38
211574340023	LAND SURV PIPE NR KAHUKU NEW 2	21 42 34.82670	157 58 26.33365	60122.913	502692.127	HI 3	0 00 34.65	0.9999901	5 SC	9.61
211573140025	LANIKAI	21 23 44.63360	157 43 13.27495	25387.787	528997.360	HI 3	0 06 7.26	1.0000004	21 SC	10.50
211573420006	LANIPO 1927	21 19 54.34779	157 45 35.00096	18298.373	524925.934	HI 3	0 05 14.66	0.9999977	800 SC	10.60
211574320003	LARGE CHIMNEY	21 31 20.91112	157 50 7.29382	39404.277	517057.318	HI 3	0 03 37.44	0.9999936		
211581230010	LEIA 1963	21 34 42.66654	158 10 4.45734	45609.933	482611.177	HI 3	-0 03 42.31	0.9999937	3 SC	10.37
211581210014	LENA 1932	21 40 0.20036	158 02 35.42660	55367.476	495531.457	HI 3	-0 00 57.38	0.9999902	138 SC	9.89
211573430050	LIKINI 1969	21 21 3.02020	157 55 28.33965	20393.302	507827.175	HI 3	0 01 38.91	0.9999908	56.	10.51
211573420105	LILLIHAI 1961	21 17 24.83457	157 50 55.94371	13688.508	515681.990	HI 3	0 03 17.54	0.9999930	1.0	10.60
211581230029	LOLO 1927	21 30 50.15571	158 12 34.15079	38463.915	478295.232	HI 3	-0 04 36.57	0.9999958	649 SC	10.52
211582110004	LOOKOUT TOWER	21 22 20.73630	158 00 5.30191	22781.642	499847.262	HI 3	-0 00 1.93	0.9999900		
211573430100	LUA	21 20 52.52837	157 53 36.11569	20072.489	511060.833	HI 3	0 02 19.75	0.9999915	4 SC	10.52
211573130037	LUCAS 1925	21 16 59.19665	157 43 52.14755	12916.251	527898.973	HI 3	0 05 51.31	0.9999996	7 SC	10.72
211581230057	LUCK	21 34 46.94924	158 14 32.10968	45751.791	474911.622	HI 3	-0 05 20.76	0.9999978	2.89	10.42
211573420085	LUNALILO HOME SPIRE	21 18 30.89167	157 50 16.90946	15721.250	516805.037	HI 3	0 03 31.89	0.9999935		
211573130018	LUNALILO HOME WATER TANK	21 16 55.40806	157 41 49.23540	12806.148	531442.241	HI 3	0 06 35.91	1.0000022		
211581220002	M 245	21 30 48.34547	158 00 42.15169	38393.733	498786.855	HI 3	-0 00 15.46	0.9999900	336.68	10.46

* For conversion of meters to U.S. Survey Feet multiply the meters by 39.37/12.0 which is 3.28083333333 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)
211573420104	MAGIC ISLAND 1969	21 17 3.51092	157 50 53.94665	13032.743	515740.184	HI 3	0 03 18.22	0.9999931	4.	10.60
211581230033	MAHOE 1932	21 34 48.87359	158 12 49.27801	45806.649	477869.920	HI 3	-0 04 42.94	0.9999960	3 SC	10.40
211581220020	MAILI 1874	21 31 18.06900	158 05 35.85449	39310.760	490334.496	HI 3	-0 02 3.21	0.9999912	460.	10.46
211582140059	MAILI USN RADIO CEN MAST OF 3	21 25 48.46881	158 09 39.07562	29179.191	483324.443	HI 3	-0 03 31.58	0.9999934		
211582140009	MAILI USN RADIO STA W TWR OF 7	21 25 18.86325	158 09 30.81256	28268.398	483561.473	HI 3	-0 03 28.48	0.9999933		
211582140035	MAILIILII	21 25 56.71485	158 10 38.26730	29434.644	481620.191	HI 3	-0 03 53.23	0.9999942		
211582140036	MAILIILII 1927	21 25 56.71496	158 10 38.24910	29434.647	481620.716	HI 3	-0 03 53.22	0.9999942	221 SC	10.51
211582140015	MAKAHA 1927	21 28 2.46654	158 11 17.96714	33303.619	480481.624	HI 3	-0 04 8.12	0.9999947	401 SC	10.52
211582140017	MAKAHA USE	21 29 22.42798	158 11 23.31098	35763.122	480330.760	HI 3	-0 04 10.32	0.9999948	153 SC	10.52
211582120018	MAKAKILO 1957	21 21 37.98260	158 04 32.82250	21468.613	492139.858	HI 3	-0 01 39.37	0.9999908	297.	10.50
211582120019	MAKAKILO AERO BEACON 1963	21 21 38.80420	158 04 33.36411	21493.889	492124.267	HI 3	-0 01 39.57	0.9999908		10.50
211573130003	MAKAPUU POINT 1872	21 18 30.05469	157 39 10.32709	15726.524	536016.546	HI 3	0 07 34.12	1.0000060	198.	10.72
211573130004	MAKAPUU POINT 1872 RM 3	21 18 29.68484	157 39 10.56821	15715.134	536009.622	HI 3	0 07 34.03	1.0000060	200.	10.72
211573130001	MAKAPUU POINT LIGHT	21 18 35.59696	157 38 59.07806	15897.699	536340.376	HI 3	0 07 38.24	1.0000063		
211573130002	MAKAPUU PT CG RADIO MAST	21 18 31.63992	157 39 4.93414	15775.622	536171.869	HI 3	0 07 36.09	1.0000062		
211573420070	MAKIKI 1927	21 18 40.67446	157 49 54.94111	16022.789	517437.860	HI 3	0 03 39.90	0.9999938	123 SC	10.58
211573410062	MAKIKIKI 1969	21 28 55.39790	157 52 8.45475	34925.527	513574.209	HI 3	0 02 52.68	0.9999923	158.0	10.45
211581230038	MAKUA 2 1927	21 31 6.29123	158 13 26.04117	38962.258	476802.511	HI 3	-0 04 55.66	0.9999966	294.	10.53
211581230040	MAKUA ARMY USE 1927	21 31 7.94861	158 13 28.35614	39013.329	476735.961	HI 3	-0 04 56.51	0.9999967	288 SC	10.53
211574320007	MALIAHONO HOUSE DOORWAY 1932	21 32 31.00846	157 50 32.61774	41559.471	516326.351	HI 3	0 03 28.33	0.9999933		10.39
211581210013	MALU 1932	21 40 34.22601	158 02 0.63908	56413.752	496531.830	HI 3	-0 00 44.56	0.9999901	111.0	9.83
211573130005	MANANA ISLAND	21 19 40.31199	157 39 22.28471	17886.602	535667.201	HI 3	0 07 30.17	1.0000057		
211582110042	MANAWAHUA 1875	21 23 11.09440	158 06 18.81363	24334.099	489088.120	HI 3	-0 02 18.14	0.9999915	726 SC	10.49
211582110041	MANAWAHUA PK RADAR DOME	21 23 11.41156	158 06 18.26640	24343.843	489103.890	HI 3	-0 02 17.94	0.9999915		
211581320006	MANINI 1932	21 34 22.61267	158 15 23.14042	45005.627	473442.359	HI 3	-0 05 39.43	0.9999987	273 SC	10.45
211573430048	MARKOWITZ MOON TELESCOPE 1957	21 20 39.80119	157 54 58.62429	19679.618	508683.725	HI 3	0 01 49.69	0.9999909		10.51
211573130028	MAST-MOST WESTERLY RADIO MAST	21 16 38.47155	157 42 26.15256	12283.245	530379.031	HI 3	0 06 22.43	1.0000014		
211572240006	MAUNA LOA 1872	21 08 32.04822	157 09 24.98228	89632.126	449075.817	HI 2	-0 10 36.62	0.9999987	420.0	11.56
211582110032	MAUNA UNA 1874	21 27 57.15157	158 04 40.18155	33130.417	491933.624	HI 3	-0 01 42.53	0.9999908	540 SC	10.48
211573130049	MAUNALUA 1928	21 17 46.26994	157 42 14.23593	14369.077	530718.640	HI 3	0 06 27.08	1.0000017	158.0	10.71
211573130031	MAUNALUA BAY DATUM POINT	21 16 1.45155	157 42 38.89962	11143.992	530013.657	HI 3	0 06 17.63	1.0000011		
211573420027	MAUUMEA 1927	21 17 8.96866	157 47 50.89108	13206.520	521016.626	HI 3	0 04 24.68	0.9999955	103 SC	10.65
211573420189	MC WAYNES LIGHT 1952	21 19 29.07314	157 49 0.51301	17513.071	519004.757	HI 3	0 03 59.83	0.9999945	411.	10.57
211581220017	MEADOW GOLD	21 36 55.36827	158 05 17.91354	49684.613	490856.694	HI 3	-0 01 57.11	0.9999910	4.36	10.18
211573410078	MEAS HALF-MILE N RNG FRONT	21 25 40.22519	157 46 12.63904	28934.555	523825.790	HI 3	0 05 2.26	0.9999970		
211573410077	MEAS HALF-MILE N RNG REAR	21 25 39.25886	157 46 10.83898	28904.910	523877.671	HI 3	0 05 2.91	0.9999970		
211573410081	MEAS HALF-MILE S RNG FRONT	21 25 12.41422	157 46 20.87696	28078.851	523589.800	HI 3	0 04 59.15	0.9999969		
211573410080	MEAS HALF-MILE S RNG REAR	21 25 12.10919	157 46 20.09264	28069.502	523612.401	HI 3	0 04 59.43	0.9999969		
211573430066	MID P USN 1960	21 21 18.71499	157 57 3.43523	20874.923	505087.096	HI 3	0 01 4.30	0.9999903	2 SC	10.50
211572210011	MIDDLE HILL 1885	21 08 59.69883	157 03 4.69290	90452.297	460050.322	HI 2	-0 08 19.62	0.9999864	311.0	11.57
211573130020	MILITRES 1926	21 20 38.48408	157 42 6.63802	19666.089	530927.616	HI 3	0 06 30.67	1.0000018	3 SC	10.60
211573430016	MILL CHIMNEY	21 20 12.07860	157 53 4.18577	18829.077	511981.741	HI 3	0 02 31.29	0.9999918		
211573420191	MOANA HOTEL FLAGSTAFF	21 16 35.65884	157 49 35.80165	12178.457	517993.687	HI 3	0 03 46.50	0.9999940		
211573420192	MOANA HOTEL FLAGSTAFF OLD	21 16 35.72951	157 49 35.85581	12180.628	517992.124	HI 3	0 03 46.48	0.9999940		
211581320019	MODEL 1958	21 34 8.55209	158 15 45.27143	44574.230	472804.944	HI 3	-0 05 47.50	0.9999991	291 SC	10.47

* 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)
211581230012	MOK	21 34 53.55870	158 10 24.57857	45945.574	482032.708	HI 3	-0 03 49.74	0.9999940	3 SC	10.37
211573140011	MOK 1965	21 27 10.81563	157 44 2.18632	31726.718	527577.770	HI 3	0 05 50.31	0.9999994	74 SC	10.43
211573140012	MOK TRAVERSE POINT A 1965	21 27 11.55484	157 44 2.23460	31749.451	527576.341	HI 3	0 05 50.30	0.9999994	74 SC	10.43
211573140009	MOKAPU 1872	21 27 15.34782	157 43 54.78088	31866.475	527790.753	HI 3	0 05 53.04	0.9999995	203.	10.43
211573410001	MOKAPU WINDMILL 1	21 27 6.02500	157 44 55.62926	31576.835	526039.247	HI 3	0 05 30.75	0.9999984		
211573140018	MOKAPU WINDMILL 2	21 27 2.50973	157 44 36.16196	31469.627	526599.943	HI 3	0 05 37.85	0.9999987		
211573140015	MOKAPU WINDMILL 3	21 26 44.45121	157 44 13.84399	30915.279	527243.476	HI 3	0 05 45.93	0.9999992		
211573420163	MOKAUEA 1928	21 20 26.04604	157 51 58.89229	19260.144	513862.819	HI 3	0 02 55.08	0.9999924	75 SC	10.53
211573140005	MOKOLEA ROCK HIGHEST PART	21 25 54.98290	157 43 10.34636	29396.987	529074.550	HI 3	0 06 8.93	1.0000004		
211574320001	MOKOLII ISLAND	21 30 34.40613	157 49 46.13155	37974.604	517667.904	HI 3	0 03 45.08	0.9999939		
211574320011	MOKOLII ISLAND 2 1976	21 30 34.47430	157 49 46.16034	37976.700	517667.073	HI 3	0 03 45.07	0.9999939	64.	10.44
211581230021	MOKU 1927	21 32 39.17023	158 11 40.54091	41814.823	479842.330	HI 3	-0 04 17.25	0.9999950	644.	10.48
211581230020	MOKU RADAR ANTENNA	21 32 44.69146	158 11 40.17079	41984.623	479853.191	HI 3	-0 04 17.13	0.9999950		
211581230011	MOKULEIA	21 34 43.34743	158 10 5.19753	45630.898	482589.906	HI 3	-0 03 42.58	0.9999937	61 SC	10.37
211581230015	MOKULEIA	21 34 56.34677	158 11 26.60832	46033.412	480248.395	HI 3	-0 04 12.56	0.9999948	4.85	10.38
211581230009	MOKULEIA USE	21 34 48.23327	158 09 51.56110	45780.752	482982.353	HI 3	-0 03 37.58	0.9999936	61 SC	10.37
211573140001	MOKULUA ISLAND	21 23 30.23150	157 41 54.05919	24949.056	531279.929	HI 3	0 06 36.09	1.0000021		
211573410024	MOKUOLOE ISLAND	21 26 0.79731	157 47 16.78456	29564.672	521977.708	HI 3	0 04 38.80	0.9999960		
211574320004	MOLII	21 31 3.97221	157 50 9.78276	38883.222	516986.237	HI 3	0 03 36.49	0.9999936	1.71	10.43
211572210016	MOLOKAI NORTH BASE 1885	21 08 41.25311	157 06 47.64461	89901.835	453616.272	HI 2	-0 09 39.93	0.9999932	123.0	11.57
211572210015	MOLOKAI S BASE 1885	21 07 43.42021	157 06 12.45521	88120.368	454626.681	HI 2	-0 09 26.82	0.9999921	73.0	11.67
211572240002	MOOMOMI 1962	21 11 53.85331	157 08 20.55059	95833.028	450953.345	HI 2	-0 10 14.93	0.9999964	19.0	11.21
211582120010	MOORING MAST	21 19 38.50040	158 02 41.19305	17792.624	495354.910	HI 3	-0 00 58.63	0.9999903		
211574340005	MORMON CHURCH SPIRE	21 38 50.22299	157 55 49.45991	53216.187	507204.039	HI 3	0 01 32.42	0.9999906		
211581230005	MT KAALA NW RADAR DOME	21 30 28.24478	158 08 33.53649	37782.210	485219.608	HI 3	-0 03 8.28	0.9999927		10.49
211581230004	MT KAALA SE RADAR DOME	21 30 27.28509	158 08 31.85580	37752.650	485267.954	HI 3	-0 03 7.66	0.9999927		
211573420043	MT TANTALUS MICROWAVE TOWER	21 19 57.99703	157 48 54.16021	18402.861	519186.784	HI 3	0 04 2.22	0.9999945		
211582140047	N E L	21 23 51.15838	158 10 8.47309	25572.078	482474.000	HI 3	-0 03 41.99	0.9999938	5 SC	10.50
211572240022	NA PUU KULUA 2 1925	21 09 34.42696	157 13 57.04058	91576.702	441232.909	HI 2	-0 12 15.32	1.0000093	166.81	11.42
211582140006	NANAKULI 1964	21 23 20.00446	158 08 32.69870	24611.175	485231.749	HI 3	-0 03 6.98	0.9999927	112.	10.49
211582140061	NANAKULI KAISER CEMENT PLT TK	21 24 17.41779	158 08 34.04470	26377.011	485194.583	HI 3	-0 03 7.60	0.9999927		
211582140026	NANAKULI USN LAB 111 MID STA	21 23 22.10590	158 09 16.26371	24676.993	483976.924	HI 3	-0 03 22.87	0.9999932		
211582140005	NANAKULI USN LAB 111 S STA	21 22 30.10340	158 08 23.60761	23076.189	485492.252	HI 3	-0 03 3.55	0.9999926		
211572240023	NAPUUKULUA 1915	21 09 34.43372	157 13 57.04136	91576.910	441232.887	HI 2	-0 12 15.32	1.0000093	167 SC	11.42
211572220020	NAT 1925	21 05 55.22607	157 02 52.51427	84778.052	460388.085	HI 2	-0 08 14.08	0.9999860	2 SC	11.87
211582120015	NAVAIR 1969	21 17 57.67276	158 04 8.58999	14692.522	492835.038	HI 3	-0 01 30.30	0.9999906	5.	10.52
211573430093	NAVY BOUNDARY MARKER 1963	21 19 26.35502	157 58 15.91402	17418.701	502999.508	HI 3	0 00 37.85	0.9999901	2 SC	10.51
211573410074	NE RADIO TOWER AERO OBSTR LT	21 27 31.40916	157 45 54.38727	32354.933	524346.269	HI 3	0 05 9.35	0.9999973		
211573130047	NIU 2 1928	21 17 44.52004	157 44 46.59654	14307.606	526327.196	HI 3	0 05 31.73	0.9999986	330 SC	10.67
211573130041	NIU LONGITUDE 1927	21 16 57.02409	157 43 55.91020	12849.248	527790.624	HI 3	0 05 49.93	0.9999995	7 SC	10.72
211573130038	NIU WATER TANK 1963	21 17 1.32513	157 43 52.62675	12981.691	527885.048	HI 3	0 05 51.15	0.9999996	51 SC	10.72
211572220018	NOON	21 05 37.81990	157 01 53.45123	84238.738	462091.485	HI 2	-0 07 52.71	0.9999844		
211573420008	NORTHMOST HIGH MAST	21 16 34.17132	157 45 36.59489	12141.730	524889.366	HI 3	0 05 13.30	0.9999977		
211572220019	NUT	21 05 45.53466	157 02 25.68519	84478.160	461161.703	HI 2	-0 08 4.36	0.9999853		
211581220012	O REILLY 1927	21 33 25.26143	158 04 5.91871	43221.403	492924.457	HI 3	-0 01 30.36	0.9999906	217.0	10.39

* 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)
211581220011	O REILLY 2 1969	21 33 30.23356	158 03 59.73731	43374.251	493102.373	HI 3	-0 01 28.09	0.9999906	217.	10.38
211573420048	OAHU EAST BASE 1872	21 17 27.05096	157 49 9.88177	13759.888	518739.070	HI 3	0 03 56.06	0.9999943	6 SC	10.62
211573430014	OAHU JAIL FLAG	21 19 47.87645	157 53 0.43398	18084.803	512090.401	HI 3	0 02 32.61	0.9999918		
211573430015	OAHU PEN	21 19 46.45972	157 53 1.67648	18041.204	512054.628	HI 3	0 02 32.16	0.9999918		
211573420100	OAHU WEST BASE 1872	21 18 2.49867	157 50 45.91252	14847.169	515970.001	HI 3	0 03 21.28	0.9999932	5 SC	10.59
211573430101	OFFSET MONUMENT 3	21 20 46.17097	157 53 37.55810	19876.935	511019.405	HI 3	0 02 19.21	0.9999915	3 SC	10.52
211581230035	OHIKILOLO	21 30 57.77045	158 12 55.80580	38698.965	477672.313	HI 3	-0 04 44.54	0.9999962	371 SC	10.52
211574330002	OHULEHULE 1875	21 30 45.05016	157 52 31.42048	38297.484	512910.414	HI 3	0 02 44.50	0.9999921	688.0	10.44
211572310006	OKE	21 10 32.65125	157 15 7.48298	93374.790	439207.254	HI 2	-0 12 41.31	1.0000123		
211574330005	OLD CATHOLIC CHURCH SPIRE	21 35 18.72181	157 53 20.00473	46713.604	511506.130	HI 3	0 02 27.17	0.9999916		
211572210008	OLELEUWE	21 10 13.03527	157 02 11.53944	92704.098	461589.121	HI 2	-0 08 0.88	0.9999949	379 SC	11.43
211573420005	OLOMANA RIDGE 1952	21 22 14.84806	157 45 30.45416	22619.786	525050.323	HI 3	0 05 16.87	0.9999978	122.0	10.53
211573420001	OLOMANU	21 21 40.26805	157 45 2.10505	21557.519	525868.709	HI 3	0 05 27.06	0.9999983		
211581210006	OPANA 1927	21 41 9.93166	158 00 32.85753	57511.600	499055.466	HI 3	-0 00 12.14	0.9999900	163.	9.76
211581320012	PAD 1969	21 34 20.34872	158 16 0.45576	44937.798	472368.716	HI 3	-0 05 53.14	0.9999994	275.	10.46
211582140031	PAHEEHEE 1875	21 26 43.63066	158 10 11.68354	30876.745	482387.274	HI 3	0 03 43.64	0.9999938	200 SC	10.51
211582140034	PAHEEHEE NEW 1927	21 26 43.59995	158 10 11.83415	30875.805	482382.936	HI 3	-0 03 43.70	0.9999938	199.	10.51
211582140032	PAHEEHEE USE 1927	21 26 43.64231	158 10 11.66128	30877.103	482387.915	HI 3	-0 03 43.63	0.9999938	200 SC	10.51
211573410027	PAHU 1910	21 25 21.14080	157 47 36.79481	28344.222	521403.093	HI 3	0 04 31.45	0.9999957	87.	10.47
211573410017	PAKO 1932	21 27 38.91771	157 45 54.06123	32585.882	524355.310	HI 3	0 05 9.50	0.9999973	23 SC	10.43
211582120023	PALAILAI 1873	21 20 26.63073	158 05 26.47594	19274.952	490592.813	HI 3	-0 01 58.81	0.9999911	151.	10.50
211573420025	PALI	21 22 3.03159	157 47 39.18875	22251.084	521342.134	HI 3	0 04 29.91	0.9999956	391 SC	10.53
211582110039	PALIKEA 1969	21 24 52.10754	158 06 1.30558	27440.521	489594.432	HI 3	-0 02 11.92	0.9999913	948.	10.49
211572310009	PAP 1925	21 10 13.45531	157 15 24.24538	92786.200	438721.515	HI 2	-0 12 47.18	1.0000131	9 SC	11.35
211573140004	PAPA	21 23 7.74762	157 42 59.95202	24254.005	529383.157	HI 3	0 06 11.95	1.0000007		
211573410067	PAPAA	21 25 20.75655	157 45 24.87876	28337.848	525202.093	HI 3	0 05 19.63	0.9999978		
211573410066	PAPAA 2 1932	21 25 20.80836	157 45 24.85717	28339.442	525202.712	HI 3	0 05 19.64	0.9999978	167.	10.47
211574330012	PAPAU 1910	21 36 33.16867	157 55 49.78374	49000.839	507196.613	HI 3	0 01 32.15	0.9999906	367 SC	10.17
211573420064	PAUAO 1927	21 20 3.86087	157 49 45.02109	18581.552	517720.982	HI 3	0 03 43.74	0.9999939	366.	10.55
211581210012	PAUMALU USE	21 38 50.86751	158 01 49.39384	53234.704	496854.490	HI 3	-0 00 40.35	0.9999901	301 SC	9.99
211572320001	PBM HALELOLO USGS 1962	21 06 3.66377	157 14 50.52837	85100.179	439666.104	HI 2	-0 12 32.64	1.0000116	148.28	11.67
211572210020	PBM MAUNAHUI USGS 1962	21 07 45.14405	157 00 45.76119	88150.170	464053.675	HI 2	-0 07 29.07	0.9999826	370 SC	11.71
211582140040	PC MON 173+79.31	21 22 41.04542	158 08 30.26766	23412.892	485300.695	HI 3	-0 03 6.00	0.9999927	5 SC	10.49
211582130006	PC MON 208+85.08	21 22 12.13435	158 08 9.92133	22523.190	485886.044	HI 3	-0 02 58.52	0.9999925	4 SC	10.49
211574330014	PEAHINAIA	21 33 17.49805	157 59 27.79861	42981.106	500926.508	HI 3	0 00 11.83	0.9999900	489 SC	10.38
211573430075	PEARL HARBOR EAST RADIO TOWER	21 21 1.13058	157 57 40.11993	20333.807	504030.288	HI 3	0 00 50.93	0.9999902		
211573430073	PEARL HARBOR ENT DATUM POINT	21 18 34.12924	157 57 31.30233	15812.753	504285.531	HI 3	0 00 54.04	0.9999902		
211573430062	PEARL HARBOR ESCAPE TRAIN TWR	21 21 20.24504	157 56 34.07433	20922.266	505933.011	HI 3	0 01 14.99	0.9999904		
211573430078	PEARL HARBOR FORD IS CONT TWR	21 21 38.25223	157 57 41.36077	21475.501	503994.257	HI 3	0 00 50.50	0.9999902		
211573430080	PEARL HARBOR LARGE WATER TANK	21 21 28.88684	157 57 47.31600	21187.420	503822.752	HI 3	0 00 48.32	0.9999902		
211573430061	PEARL HARBOR MAKALAPA W RAD TR	21 21 11.38628	157 56 2.58646	20650.164	506840.336	HI 3	0 01 26.45	0.9999906		
211573430081	PEARL HARBOR SOUTH RADIO TOWER	21 20 54.03901	157 57 48.94449	20115.640	503776.082	HI 3	0 00 47.71	0.9999902		
211573430067	PEARL HARBOR WATER TANK A	21 21 2.22416	157 57 14.83111	20367.637	504758.912	HI 3	0 01 0.13	0.9999903		
211573430069	PEARL HARBOR WATER TANK B	21 21 3.39563	157 57 16.86170	20403.649	504700.395	HI 3	0 00 59.40	0.9999903		
211573430070	PEARL HARBOR WATER TANK C	21 21 3.39138	157 57 18.07381	20403.508	504665.471	HI 3	0 00 58.95	0.9999903		

* 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)
211582120001	PEARL HARBOR WEST LOCH TANK	21 21 8.60736	158 00 20.00693	20563.273	499423.559	HI 3	-0 00 7.28	0.9999900		
211573430082	PEARL HARBOR WEST RADIO TOWER	21 21 4.73792	157 57 51.08568	20444.678	503714.313	HI 3	0 00 46.94	0.9999902		
211582140041	PI MON 1-A	21 23 0.72412	158 08 51.46698	24018.690	484690.572	HI 3	-0 03 13.78	0.9999929	5 SC	10.49
211573140013	PILE	21 26 41.16812	157 44 6.51327	30814.659	527454.727	HI 3	0 05 48.60	0.9999993		
211573410050	PILOT 1969	21 24 5.80988	157 49 41.15237	26023.024	517824.327	HI 3	0 03 45.82	0.9999939	220.	10.48
211572220003	PIPE	21 05 40.40270	157 01 8.61443	84315.256	463385.742	HI 2	-0 07 36.59	0.9999832		
211581230036	PIPE 1969	21 33 23.11049	158 13 21.02880	43170.140	476952.765	HI 3	-0 04 54.31	0.9999966	575.	10.47
211581220007	POAMOHO 1969	21 30 47.94848	158 02 26.44833	38382.026	495785.146	HI 3	-0 00 53.71	0.9999902	300.	10.46
211582140045	POC 241+00	21 23 47.05465	158 09 46.00697	25445.181	483120.968	HI 3	-0 03 33.79	0.9999935	4 SC	10.50
211573140003	PODMORE 1926	21 23 8.06418	157 42 59.80574	24263.749	529387.354	HI 3	0 06 12.01	1.0000007	173 SC	10.52
211582110002	POHAKU 1969	21 25 3.36587	157 59 54.47627	27783.455	500159.079	HI 3	0 00 2.02	0.9999900	122.	10.47
211572240016	POHAKULOA 1885	21 07 26.30675	157 14 0.31989	87636.659	441124.242	HI 2	-0 12 15.33	1.0000095	249.0	11.59
211572240017	POHAKUMAUULIULI	21 11 44.03653	157 14 47.65656	95568.182	439787.215	HI 2	-0 12 34.82	1.0000115	71 SC	11.22
211572210009	POHAKUNUI 1888	21 11 4.21966	157 03 0.98953	94281.654	460166.427	HI 2	-0 08 19.06	0.9999863	262.0	11.32
211582140058	POKAI	21 26 26.95720	158 11 21.54364	30366.239	480375.108	HI 3	-0 04 9.13	0.9999948	4 SC	10.51
211573410040	POND 1926	21 26 31.98887	157 48 29.45006	30521.309	519884.038	HI 3	0 04 12.44	0.9999949	18 SC	10.45
211573420183	POND 1928	21 16 25.90569	157 45 30.91791	11887.765	525053.405	HI 3	0 05 15.33	0.9999978	3 SC	10.71
211572310011	POOLAU 1962	21 08 50.67355	157 16 26.78061	90247.009	436907.757	HI 2	-0 13 8.95	1.0000158	44.08	11.45
211572310003	PORT 1925	21 11 29.86276	157 14 56.55772	95133.201	439528.877	HI 2	-0 12 37.90	1.0000118	8 SC	11.24
211573410013	POST	21 26 34.39550	157 45 43.57839	30601.876	524660.135	HI 3	0 05 13.09	0.9999975		
211573420134	POST OFFICE NW TWR INSTRUM CUP	21 18 22.33771	157 51 38.69189	15455.916	514448.245	HI 3	0 03 2.15	0.9999926		
211573420131	POST OFFICE SE TOWER FLAGSTAFF	21 18 21.17551	157 51 37.83510	15420.194	514472.970	HI 3	0 03 2.46	0.9999926		
211582140042	POT 124+29.46 LUALUALEI	21 23 15.56766	158 09 7.47850	24475.657	484229.786	HI 3	-0 03 19.65	0.9999931	4 SC	10.50
211573430089	PROPERTY COR MARKER PIPE 1964	21 19 17.94658	157 53 30.55374	17163.671	511223.088	HI 3	0 02 21.60	0.9999916	3 SC	10.54
211581220021	PROTESTANT CHURCH	21 35 26.52136	158 06 8.05623	46952.862	489412.776	HI 3	-0 02 15.44	0.9999914		
211574330004	PROTESTANT CHURCH SPIRE	21 35 11.42949	157 53 17.15192	46489.375	511588.354	HI 3	0 02 28.21	0.9999917		
211582140046	PT 223+58.26	21 23 52.46668	158 10 3.44048	25612.161	482618.999	HI 3	-0 03 40.16	0.9999937	8 SC	10.50
211582140055	PT 795+18.65	21 25 53.84615	158 10 59.62394	29347.121	481005.092	HI 3	-0 04 1.02	0.9999945	5 SC	10.51
211582140056	PT 806+26.50	21 26 3.94617	158 11 4.18993	29657.913	480873.972	HI 3	-0 04 2.72	0.9999945	5 SC	10.51
211582140039	PT MON 188+95.88	21 22 29.18435	158 08 20.48440	23047.843	485582.199	HI 3	-0 03 2.41	0.9999926	6 SC	10.49
211581220024	PUAENA 1875	21 36 7.66405	158 06 22.02100	48218.542	489011.939	HI 3	-0 02 20.64	0.9999915	2 SC	10.25
211581320013	PUEO 1932	21 34 23.94940	158 16 7.12593	45048.872	472177.013	HI 3	-0 05 55.61	0.9999996	232.	10.46
211573140014	PUHI 1932	21 25 53.73547	157 44 11.19971	29355.581	527322.238	HI 3	0 05 46.68	0.9999992	3 SC	10.45
211581230014	PUMP	21 34 27.61359	158 10 51.32914	45148.465	481262.244	HI 3	-0 03 59.50	0.9999943		
211573420145	PUMPING STATION CHIMNEY	21 17 53.39336	157 51 46.31466	14565.523	514229.322	HI 3	0 02 59.32	0.9999925		
211574330001	PUNA 1910	21 34 20.48710	157 52 30.38762	44923.584	512934.836	HI 3	0 02 45.31	0.9999921	2 SC	10.31
211572240004	PUNAKOU 1962	21 07 34.23356	157 08 55.49994	87851.432	449921.077	HI 2	-0 10 25.53	0.9999976	384.0	11.66
211572320011	PUNAKUA	21 05 52.26802	157 16 21.83004	84759.524	437029.676	HI 2	-0 13 5.40	1.0000156	89 SC	11.66
211572320010	PUNAKUA 2 1962	21 05 52.39422	157 16 21.74710	84763.396	437032.085	HI 2	-0 13 5.37	1.0000156	87.0	11.66
211573420106	PUNCHBOWL 1873	21 18 43.94013	157 50 56.88361	16121.421	515652.571	HI 3	0 03 17.40	0.9999930	152.50	10.57
211573420096	PUNCHBOWL EAST 1927	21 18 45.61435	157 50 35.40039	16173.517	516271.666	HI 3	0 03 25.21	0.9999933	132.0	10.57
211581210015	PUPUKEA 1875	21 39 25.47373	158 02 44.34040	54299.468	495274.869	HI 3	-0 01 0.65	0.9999903	169.	9.94
211572210005	PUU ANOANO	21 09 56.28417	157 01 30.18852	92186.184	462780.818	HI 2	-0 07 45.85	0.9999838	412 SC	11.46
211572240015	PUU APALU TANK	21 10 36.04385	157 13 48.22726	93470.851	441493.902	HI 2	-0 12 12.71	1.0000089		
211572320005	PUU HAKINA	21 05 43.84541	157 15 9.24816	84492.640	439123.581	HI 2	-0 12 39.19	1.0000124	113 SC	11.69

* 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)
211581230059	PUU IKI 1927	21 32 18.94045	158 07 21.89707	41185.058	487284.182	HI 3	-0 02 42.23	0.9999920	349.	10.45
211572220025	PUU ILOLI 1885	21 06 17.40882	157 06 58.40811	85478.800	453293.209	HI 2	-0 09 42.76	0.9999936	35.0	11.79
211582140001	PUU KAILIO 1000 1969	21 27 39.05669	158 07 48.33846	32577.485	486516.153	HI 3	-0 02 51.35	0.9999922	86.0	10.49
211582140025	PUU KAILIO 10000 1969	21 23 22.10078	158 09 16.23040	24676.835	483977.883	HI 3	-0 03 22.86	0.9999932	4.0	10.50
211582110045	PUU KAILIO 1969	21 27 44.43625	158 07 15.12604	32742.173	487472.494	HI 3	-0 02 39.21	0.9999919	292.	10.49
211582140002	PUU KAILIO 2500 1969	21 26 41.92817	158 07 59.01750	30820.691	486207.202	HI 3	-0 02 55.13	0.9999923	48.0	10.49
211582140003	PUU KAILIO 5000 1969	21 25 25.31575	158 08 9.43410	28464.651	485905.223	HI 3	-0 02 58.77	0.9999925	36.0	10.49
211582140004	PUU KAILIO 7500 1969	21 24 52.15987	158 08 15.89787	27445.071	485718.183	HI 3	-0 03 1.06	0.9999925	23.0	10.49
211572210012	PUU KAPELE 1885	21 11 36.29593	157 05 30.33769	95279.147	455861.185	HI 2	-0 09 13.25	0.9999907	140.82	11.25
211573410056	PUU KAUAI 1957	21 28 30.43327	157 50 56.55254	34159.574	515644.776	HI 3	0 03 18.95	0.9999930	187.	10.45
211572310012	PUU KOAI	21 09 29.48672	157 16 28.98441	91440.972	436848.743	HI 2	-0 13 10.13	1.0000159	27 SC	11.40
211572210003	PUU LUA	21 10 31.61620	157 00 28.09639	93268.863	464574.396	HI 2	-0 07 23.62	0.9999822	486 SC	11.39
211572210019	PUU LUHINE 1925	21 07 45.15441	157 00 45.73652	88150.487	464054.388	HI 2	-0 07 29.06	0.9999826	370.0	11.71
211573140019	PUU O EHU 1969	21 23 14.47664	157 44 36.95760	24456.164	526588.495	HI 3	0 05 36.61	0.9999987	99.	10.51
211572230001	PUU O HOLEHUA 1925	21 07 5.72362	157 07 40.39372	86968.182	452085.806	HI 2	-0 09 58.24	0.9999950	230 SC	11.72
211582140028	PUU O HULU MAKAI 1927	21 24 2.91722	158 10 11.45061	25933.825	482388.629	HI 3	-0 03 43.11	0.9999938	263.	10.50
211582140007	PUU O HULU NORTH	21 24 13.99052	158 09 21.79611	26272.911	483819.149	HI 3	-0 03 25.02	0.9999932		
211582140027	PUU O HULU SOUTH	21 24 2.89418	158 10 11.47586	25933.118	482387.901	HI 3	-0 03 43.12	0.9999938		
211572220023	PUU O KAHANUI 1925	21 06 42.31551	157 04 23.69218	86232.784	457760.283	HI 2	-0 08 47.21	0.9999887	41.47	11.79
211572310004	PUU O KAIKA 1925	21 10 52.44793	157 15 3.44422	93983.218	439326.003	HI 2	-0 12 40.04	1.0000121	34.74	11.29
211572210007	PUU O KAMAO	21 10 31.63459	157 01 37.07848	93273.828	462584.524	HI 2	-0 07 48.54	0.9999840	336 SC	11.39
211572230008	PUUKAUHI 1925	21 06 34.19643	157 10 21.37356	86012.690	447437.220	HI 2	-0 10 55.99	1.0000008	251 SC	11.72
211573430019	PUUKI 1875	21 40 15.96730	157 58 50.07354	55851.922	502010.338	HI 3	0 00 25.82	0.9999900	199.	9.85
211573430090	PUULO 1873	21 19 26.12397	157 58 15.71444	17411.596	503005.261	HI 3	0 00 37.92	0.9999901	3 SC	10.51
211573430092	PUULO 2 1927	21 19 26.07260	157 58 15.75358	17410.016	503004.133	HI 3	0 00 37.91	0.9999901	2.	10.51
211573420026	PUUPIA 1928	21 19 31.16977	157 47 47.16013	17580.149	521118.525	HI 3	0 04 26.51	0.9999955	269 SC	10.59
211573410014	PYRAMID ROCK HIGHEST PART	21 27 44.07969	157 45 48.76579	32744.875	524507.531	HI 3	0 05 11.46	0.9999974		
211573410099	PYRAMID ROCK LIGHT	21 27 44.11322	157 45 48.68723	32745.910	524509.791	HI 3	0 05 11.49	0.9999974		
211573430009	QUARANTINE FLAGSTAFF	21 18 21.88592	157 52 35.75075	15440.652	512803.755	HI 3	0 02 41.42	0.9999920		
211573430011	QUARANTINE ISLAND FLAGSTAFF	21 18 24.89865	157 52 36.79228	15533.287	512773.665	HI 3	0 02 41.05	0.9999920		
211573130006	R 2	21 18 33.73601	157 39 26.11306	15838.751	535561.332	HI 3	0 07 28.40	1.0000056	43.83	10.71
211582120013	R 3	21 19 37.76310	158 03 42.94664	17770.551	493575.351	HI 3	-0 01 21.08	0.9999905	15.50	10.51
211573430039	RAD	21 18 34.85781	157 54 6.91648	15837.764	510176.008	HI 3	0 02 8.31	0.9999913		
211581320020	RAD 1958	21 34 8.82209	158 15 45.42749	44582.542	472800.468	HI 3	-0 05 47.56	0.9999991	291.	10.47
211574330017	RADIO	21 31 14.10253	157 59 49.76735	39185.882	500294.486	HI 3	0 00 3.75	0.9999900	386.88	10.45
211574340015	RADIO CORP POWER PLANT CHIMNEY	21 42 21.86309	157 58 22.36361	59724.211	502806.302	HI 3	0 00 36.11	0.9999901		
211573420115	RADIO STATION KGU EAST TOWER	21 18 11.02123	157 51 20.18576	15108.351	514981.931	HI 3	0 03 8.85	0.9999928		
211573420116	RADIO STATION KGU WEST TOWER	21 18 10.61208	157 51 21.67363	15095.728	514939.059	HI 3	0 03 8.31	0.9999928		
211573130014	RADIO TOWER	21 17 5.38799	157 41 10.65773	13115.261	532553.675	HI 3	0 06 49.96	1.0000031		
211573410035	RADIO TOWER 1	21 25 36.59154	157 48 20.27907	28817.827	520150.225	HI 3	0 04 15.62	0.9999950		
211573410033	RADIO TOWER 2	21 25 39.78857	157 48 14.87713	28916.349	520305.665	HI 3	0 04 17.60	0.9999951		
211573410036	RADIO TOWER 3	21 25 42.52591	157 48 20.58147	29000.334	520141.290	HI 3	0 04 15.53	0.9999950		
211581230060	RAIN GAUGE 1963	21 32 18.93097	158 07 22.12029	41184.771	487277.758	HI 3	-0 02 42.31	0.9999920	350 SC	10.45
211573420045	RAMSAYS HOME C OF GROUP OF LTS	21 19 29.94664	157 49 2.56214	17539.868	518945.674	HI 3	0 03 59.08	0.9999944		
211573420162	REAR RANGE LIGHTHOUSE	21 18 25.64958	157 51 58.79761	15557.273	513868.689	HI 3	0 02 54.85	0.9999924		

* 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)
211581320003	RED 1958	21 33 43.78493	158 15 5.56475	43810.589	473946.065	HI 3	-0 05 32.81	0.9999984	382.	10.47
211573420176	RED BEACON 4	21 17 38.36289	157 52 16.33861	14102.524	513364.328	HI 3	0 02 48.38	0.9999922		
211573420175	RED BEACON 6	21 17 46.25028	157 52 12.90868	14345.186	513462.991	HI 3	0 02 49.64	0.9999922		
211573420168	RED BEACON 8	21 17 53.92394	157 52 7.26162	14581.328	513625.560	HI 3	0 02 51.71	0.9999923		
211573410057	RED CHURCH SPIRE	21 29 42.04609	157 51 3.93356	36361.913	515430.194	HI 3	0 03 16.43	0.9999929		
211573410045	RED DIRT 1969	21 23 50.88438	157 48 52.15044	25565.582	519236.249	HI 3	0 04 3.66	0.9999946	216.	10.49
211573420179	RED GAS TANK CENTER	21 18 59.65552	157 52 17.80741	16602.692	513319.957	HI 3	0 02 48.02	0.9999922		
211582110040	RELAY USN 1960	21 23 43.69795	158 06 7.68886	25336.639	489409.226	HI 3	-0 02 14.13	0.9999914	775 SC	10.49
211581230026	RICE 1932	21 34 54.31586	158 12 24.49035	45973.073	478583.219	HI 3	-0 04 33.85	0.9999957	3 SC	10.39
211573130048	RIDGE 1910	21 17 46.35972	157 42 14.15036	14371.843	530721.101	HI 3	0 06 27.11	1.0000017	161 SC	10.71
211573430086	RNG HONOLULU HNL	21 19 21.50651	157 59 3.35187	17269.388	501632.478	HI 3	0 00 20.60	0.9999900		
211572220021	ROCK	21 06 17.57144	157 04 0.49874	85470.092	458427.701	HI 2	-0 08 38.70	0.9999880		
211581320011	ROCKY 1958	21 34 19.94540	158 15 59.75729	44925.358	472388.789	HI 3	-0 05 52.88	0.9999994	282.	10.46
211573420059	ROCKY HILL 1872	21 18 12.48812	157 49 32.96086	15156.587	518072.292	HI 3	0 03 47.81	0.9999940	91 SC	10.60
211573430072	ROOF USN 1960	21 21 8.77398	157 57 29.47847	20568.963	504336.833	HI 3	0 00 54.81	0.9999902	2 SC	10.50
211573420093	ROSEBANK 1928	21 19 42.55846	157 50 29.65688	17925.037	516435.432	HI 3	0 03 27.44	0.9999933	177 SC	10.56
211573420052	ROUND TOP 1927	21 18 48.50119	157 49 21.92882	16264.547	518389.009	HI 3	0 03 51.92	0.9999942	320.	10.59
211573430042	SALT LAKE 1873	21 21 47.95081	157 54 29.26677	21776.082	509528.398	HI 3	0 02 0.48	0.9999911	149.	10.50
211572310010	SAND 1950	21 13 1.54919	157 15 31.27719	97956.788	438537.974	HI 2	-0 12 51.34	1.0000133	21.0	11.09
211573430006	SAND IS ARTILLERY FIRE CONT TR	21 18 5.38302	157 52 26.50318	14933.306	513070.686	HI 3	0 02 44.74	0.9999921		
211573420181	SAND IS COAST GUARD STATION FP	21 18 22.88422	157 52 19.26193	15471.734	513278.957	HI 3	0 02 47.41	0.9999922		
211573420167	SAND ISLAND LIGHT	21 18 7.99354	157 52 6.64702	15014.061	513642.914	HI 3	0 02 51.96	0.9999923		
211573420197	SAND ISLAND LIGHT	21 18 2.23768	157 52 9.48282	14836.969	513561.328	HI 3	0 02 50.92	0.9999923		
211573420198	SAND ISLAND LIGHT OLD	21 18 2.09725	157 52 9.73703	14832.644	513554.004	HI 3	0 02 50.83	0.9999923		
211573420174	SAND ISLAND SOUTH BASE 1927	21 17 58.57680	157 52 12.49431	14724.305	513474.623	HI 3	0 02 49.82	0.9999922	1.0	10.57
211573430001	SAT	21 21 0.94742	157 52 25.82112	20332.921	513086.021	HI 3	0 02 45.35	0.9999921	152.04	10.52
211573430041	SCAR	21 21 47.13842	157 54 26.54135	21751.142	509606.932	HI 3	0 02 1.47	0.9999911		
211582110015	SCHOFIELD E BASE	21 28 49.69745	158 01 32.45507	34744.739	497338.501	HI 3	-0 00 33.86	0.9999901	255.48	10.46
211582110024	SCHOFIELD LAUNDRY STACK	21 29 20.15663	158 03 5.98372	35682.213	494646.406	HI 3	-0 01 8.13	0.9999904		
211582110016	SCHOFIELD MAGNETIC	21 28 49.80303	158 01 33.06815	34747.989	497320.853	HI 3	-0 00 34.08	0.9999901	255.03	10.46
211582110023	SCHOFIELD POST FLAG	21 29 23.03465	158 02 55.00883	35770.629	494962.349	HI 3	-0 01 4.11	0.9999903		
211582110031	SCHOFIELD W BASE	21 29 9.40001	158 04 1.91949	35351.992	493036.136	HI 3	-0 01 28.61	0.9999906	278.13	10.47
211573410072	SE DOME AERO OBSTRUCTION LT	21 27 27.81760	157 45 46.44604	32244.814	524575.076	HI 3	0 05 12.24	0.9999975		
211573140010	SEISMOGRAPH 1965	21 27 11.95392	157 44 1.61869	31761.755	527594.054	HI 3	0 05 50.52	0.9999994		10.43
211573430018	SHAFTER 1928	21 20 35.40043	157 53 16.04994	19546.109	511639.362	HI 3	0 02 27.02	0.9999917	18 SC	10.52
211573410019	SHERIFF	21 26 38.58564	157 46 28.95627	30728.818	523353.316	HI 3	0 04 56.51	0.9999967		
211573410089	SIGNAL 227	21 27 49.43789	157 48 34.44986	32903.171	519737.175	HI 3	0 04 10.85	0.9999948		
211573410087	SIGNAL 228	21 28 35.57208	157 47 59.04311	34323.359	520754.733	HI 3	0 04 23.96	0.9999953		
211581210008	SON 1932	21 41 52.80397	158 00 49.91436	58830.259	498565.263	HI 3	-0 00 18.45	0.9999900	2 SC	9.68
211572320009	SOUTHWEST POINT LIGHTHOUSE	21 06 5.31539	157 18 35.73723	85175.970	433166.453	HI 2	-0 13 53.74	1.0000218		
211582120024	ST MON 1969	21 18 48.45747	158 05 57.82739	16256.116	489687.536	HI 3	-0 02 10.06	0.9999913	4.0	10.50
211573430054	STA G HONOLULU AHUA PT ATC TWR	21 18 38.39091	157 55 35.73451	15945.035	507616.185	HI 3	0 01 36.04	0.9999907		
211573430004	STATE SURVEY 1-1 1969	21 19 18.85009	157 52 23.06719	17192.910	513167.899	HI 3	0 02 46.14	0.9999921	2.0	10.55
211573410061	STATE SURVEY 1-10 GUAVA 1969	21 22 59.88162	157 51 28.82060	23992.240	514725.046	HI 3	0 03 6.38	0.9999927	188.0	10.50
211573420118	STATE SURVEY 1-11 1969	21 18 57.78676	157 51 23.09189	16546.577	514896.861	HI 3	0 03 7.90	0.9999927	11.0	10.56

* 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)
211573430038	STATE SURVEY 1-13 1969	21 19 50.65782	157 54 5.54322	18169.065	510214.129	HI 3	0 02 8.93	0.9999913	2.0	10.53
211573420092	STATE SURVEY 1-14 1969	21 22 0.97591	157 50 28.45467	22182.207	516465.782	HI 3	0 03 28.24	0.9999933	200.0	10.51
211573430013	STATE SURVEY 1-2 1969	21 21 55.79509	157 52 48.40171	22019.295	512434.131	HI 3	0 02 37.24	0.9999919	241.0	10.51
211573420182	STATE SURVEY 1-3 1969	21 19 45.57603	157 52 19.48697	18014.968	513270.407	HI 3	0 02 47.50	0.9999922	13.0	10.54
211573430019	STATE SURVEY 1-6 1969	21 18 53.10276	157 53 16.91044	16399.859	511616.804	HI 3	0 02 26.52	0.9999917	7.0	10.55
211573420123	STATE SURVEY 1-7 1969	21 19 25.24333	157 51 26.97950	17390.920	514784.060	HI 3	0 03 6.55	0.9999927	22.0	10.55
211573430097	STATE SURVEY 1-8B	21 19 54.99120	157 53 23.38385	18303.146	511428.913	HI 3	0 02 24.28	0.9999916	5 SC	10.53
211573430099	STATE SURVEY 1-8C	21 19 59.28727	157 53 35.49426	18435.034	511079.849	HI 3	0 02 19.88	0.9999915	3 SC	10.53
211573430095	STATE SURVEY 1-8D	21 20 5.50210	157 53 17.94139	18626.526	511585.514	HI 3	0 02 26.28	0.9999917	3 SC	10.53
211573430094	STATE SURVEY 1-8E	21 20 16.58602	157 53 0.99743	18967.773	512073.511	HI 3	0 02 32.46	0.9999918	16 SC	10.53
211573430096	STATE SURVEY 1-8F	21 20 35.32907	157 53 22.94633	19543.774	511440.652	HI 3	0 02 24.51	0.9999916	18 SC	10.52
211573420158	STATE SURVEY 1-9 1969	21 18 52.98558	157 51 50.72820	16398.208	514100.532	HI 3	0 02 57.85	0.9999925	1.0	10.56
211573420073	STATE SURVEY 2-11 1969	21 16 39.81527	157 50 1.68895	12305.487	517247.301	HI 3	0 03 37.12	0.9999937	0.0	10.62
211573420046	STATE SURVEY 2-12 1969	21 16 30.47899	157 49 5.18446	12020.140	518876.471	HI 3	0 03 57.60	0.9999944	1.0	10.64
211573420055	STATE SURVEY 2-2 1969	21 17 14.40613	157 49 25.19257	13370.490	518298.184	HI 3	0 03 50.46	0.9999941	1.0	10.62
211573420109	STATE SURVEY 2-3 1969	21 17 47.44928	157 50 59.85053	14383.929	515568.717	HI 3	0 03 16.18	0.9999930	1.0	10.59
211573420108	STATE SURVEY 2-4 1969	21 18 6.80462	157 50 58.55590	14979.249	515605.465	HI 3	0 03 16.70	0.9999930	3.0	10.58
211573420040	STATE SURVEY 2-8 1969	21 18 55.12364	157 48 42.48271	16469.543	519525.593	HI 3	0 04 6.28	0.9999947	62.0	10.59
211573130044	STATE SURVEY 3-10 1969	21 17 9.69079	157 44 14.49179	13237.922	527254.345	HI 3	0 05 43.24	0.9999992	7.0	10.70
211573420033	STATE SURVEY 3-5 1969	21 15 54.94149	157 48 4.69942	10929.267	520621.463	HI 3	0 04 19.43	0.9999953	145.0	10.68
211573420010	STATE SURVEY 3-6 1969	21 16 34.32779	157 45 49.59410	12145.978	524514.629	HI 3	0 05 8.58	0.9999974	3.11	10.70
211573410044	STATE SURVEY 4-12 1969	21 22 51.66676	157 48 42.00503	23744.635	519530.654	HI 3	0 04 7.18	0.9999947	207.0	10.51
211573410026	STATE SURVEY 4-13 1969	21 23 15.49317	157 47 34.57566	24479.882	521472.098	HI 3	0 04 31.84	0.9999957	96.0	10.50
211573410015	STATE SURVEY 4-14 1969	21 23 12.24134	157 45 50.44827	24384.098	524471.670	HI 3	0 05 9.80	0.9999974	49.0	10.51
211573140023	STATE SURVEY 4-15 1969	21 25 5.64481	157 44 40.71868	27875.089	526474.595	HI 3	0 05 35.70	0.9999987	2.0	10.47
211573410008	STATE SURVEY 4-16 1969	21 24 31.14509	157 45 20.70624	26812.177	525324.630	HI 3	0 05 20.96	0.9999979	3.0	10.48
211573410016	STATE SURVEY 4-17 1969	21 24 36.93325	157 45 53.17368	26988.770	524389.261	HI 3	0 05 9.13	0.9999973	120.0	10.48
211573410068	STATE SURVEY 4-18 1969	21 24 31.12835	157 46 56.08463	26807.620	522577.618	HI 3	0 04 46.14	0.9999963	42.0	10.48
211573410006	STATE SURVEY 4-20 1969	21 26 23.27439	157 45 17.78100	30260.977	525403.493	HI 3	0 05 22.47	0.9999980	3.0	10.45
211573410010	STATE SURVEY 4-21 1969	21 25 58.24655	157 45 38.22161	29490.306	524816.078	HI 3	0 05 14.90	0.9999976	1.0	10.46
211573410012	STATE SURVEY 4-22 1969	21 25 36.84957	157 45 43.44592	28831.987	524666.635	HI 3	0 05 12.91	0.9999975	13.0	10.46
211573410046	STATE SURVEY 4-24-GROUCHO 1969	21 24 46.85399	157 49 20.29997	27286.046	518423.500	HI 3	0 03 53.55	0.9999942	135.0	10.48
211573410048	STATE SURVEY 4-25 1969	21 25 56.09434	157 49 22.71376	29415.528	518351.579	HI 3	0 03 52.87	0.9999942	49.0	10.46
211573410060	STATE SURVEY 4-28 1969	21 28 57.63917	157 51 9.59616	34995.967	515268.488	HI 3	0 03 14.24	0.9999929	20.0	10.45
211573140022	STATE SURVEY 4-3 1969	21 22 25.63289	157 44 39.61729	22953.799	526514.326	HI 3	0 05 35.44	0.9999987	88.0	10.53
211573410051	STATE SURVEY 4-31 1969	21 26 35.16022	157 49 57.70924	30615.936	517342.549	HI 3	0 03 40.18	0.9999937	16.0	10.46
211573130029	STATE SURVEY 4-33 1969	21 21 12.20656	157 42 26.27648	20702.196	530359.825	HI 3	0 06 23.68	1.0000014	3.0	10.58
211573130034	STATE SURVEY 4-4 1969	21 19 58.15068	157 43 14.50670	18422.012	528974.251	HI 3	0 06 5.79	1.0000004	55.0	10.62
211573130046	STATE SURVEY 4-5 1969	21 20 7.61597	157 44 36.49134	18709.106	526611.299	HI 3	0 05 36.00	0.9999987	85.0	10.60
211573130042	STATE SURVEY 4-7 1969	21 20 45.92684	157 44 0.06466	19889.135	527658.959	HI 3	0 05 49.42	0.9999994	22.0	10.58
211573140002	STATE SURVEY 4-8 1969	21 22 38.58327	157 42 24.47580	23358.898	530406.753	HI 3	0 06 24.75	1.0000014	4.0	10.53
211573140021	STATE SURVEY 4-9 1969	21 23 37.08953	157 44 39.05563	25151.549	526526.928	HI 3	0 05 35.94	0.9999987	2.0	10.50
211574320009	STATE SURVEY 5-1 1969	21 33 33.70527	157 51 50.25784	43485.703	514090.582	HI 3	0 02 59.96	0.9999925	49.0	10.35
211581220013	STATE SURVEY 6-5 1969	21 33 39.98118	158 04 7.25806	43674.147	492886.121	HI 3	-0 01 30.87	0.9999906	197.0	10.37
211581220008	STATE SURVEY 6-6 1969	21 32 53.96263	158 02 46.39604	42257.923	495212.189	HI 3	-0 01 1.11	0.9999903	291.0	10.40

* 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)
211581220006	STATE SURVEY 6-7. 1969	21 31 51.04460	158 02 25.34944	40322.623	495817.274	HI 3	-0 00 53.34	0.9999902	306.0	10.44
211582140054	STATE SURVEY 8-4A	21 25 48.30936	158 10 58.20330	29176.784	481045.803	HI 3	-0 04 0.49	0.9999944	4 SC	10.51
211582140053	STATE SURVEY 8-4B	21 25 30.71604	158 10 42.57624	28635.163	481495.199	HI 3	-0 03 54.72	0.9999942	4 SC	10.51
211582140051	STATE SURVEY 8-4C	21 24 56.24260	158 10 37.06549	27574.716	481652.701	HI 3	-0 03 52.61	0.9999942	5 SC	10.50
211582140013	STATE SURVEY 8-5 1969	21 26 57.54197	158 11 5.48829	31306.357	480838.529	HI 3	-0 04 3.36	0.9999945	5.0	10.51
211582140010	STATE SURVEY 8-6 1969	21 27 35.49299	158 10 7.70063	32471.708	482503.676	HI 3	-0 03 42.33	0.9999938	55.0	10.51
211582140052	STATE SURVEY 8-7B	21 24 28.65688	158 10 38.83016	26726.347	481600.920	HI 3	-0 03 53.18	0.9999942	3 SC	10.50
211582140050	STATE SURVEY 8-7C	21 24 6.85883	158 10 36.24276	26055.842	481674.685	HI 3	-0 03 52.17	0.9999941	4 SC	10.50
211582140049	STATE SURVEY 8-7D	21 24 1.56424	158 10 30.99032	25892.832	481825.787	HI 3	-0 03 50.24	0.9999941	5 SC	10.50
211582140048	STATE SURVEY 8-7E SLIM REF 19	21 23 53.81162	158 10 17.35988	25653.959	482218.120	HI 3	-0 03 45.24	0.9999939	8 SC	10.50
211582130005	STATE SURVEY 8-9A HARRIET	21 22 10.96165	158 08 9.18862	22487.104	485907.121	HI 3	-0 02 58.25	0.9999925	9 SC	10.49
211582130004	STATE SURVEY 8-9B HILL REF 2	21 22 3.06607	158 08 7.03171	22244.216	485969.050	HI 3	-0 02 57.45	0.9999924	17 SC	10.49
211582110028	STATE SURVEY 9-10 1969	21 26 18.47456	158 03 34.29114	30094.667	493829.444	HI 3	-0 01 18.32	0.9999905	250.0	10.47
211582110027	STATE SURVEY 9-11 1969	21 27 41.73580	158 03 23.52035	32655.341	494140.516	HI 3	-0 01 14.46	0.9999904	255.0	10.47
211582110026	STATE SURVEY 9-12 1969	21 28 36.36020	158 03 16.60807	34335.306	494340.111	HI 3	-0 01 11.98	0.9999904	261.	10.47
211582110014	STATE SURVEY 9-14 1969	21 28 36.37782	158 01 5.15495	34334.969	498124.341	HI 3	-0 00 23.85	0.9999900	244.0	10.46
211582110006	STATE SURVEY 9-15 1969	21 28 23.64829	158 00 16.50969	33943.356	499524.713	HI 3	-0 00 6.04	0.9999900	247.0	10.46
211582110001	STATE SURVEY 9-16 1969	21 27 53.14806	157 59 50.86386	33005.282	500263.030	HI 3	0 00 3.34	0.9999900	234.0	10.46
211582120027	STATE SURVEY 9-2 1969	21 20 35.57029	158 06 45.76372	19551.370	488308.383	HI 3	-0 02 27.68	0.9999917	60.0	10.50
211582110005	STATE SURVEY 9-20 1969	21 22 28.87825	158 00 8.95773	23032.056	499741.949	HI 3	-0 00 3.26	0.9999900	9.0	10.49
211582110013	STATE SURVEY 9-21 1969	21 23 7.06872	158 01 0.92032	24206.727	498245.153	HI 3	-0 00 22.21	0.9999900	22.0	10.49
211573440006	STATE SURVEY 9-22 1969	21 24 49.60108	157 57 40.33779	27360.602	504022.277	HI 3	0 00 50.99	0.9999902	122.	10.48
211573440003	STATE SURVEY 9-23 1969	21 22 30.47251	157 55 44.30570	23082.750	507365.941	HI 3	0 01 33.19	0.9999907	27.0	10.49
211573430044	STATE SURVEY 9-24 1969	21 22 8.58610	157 54 43.09993	22410.508	509129.510	HI 3	0 01 55.47	0.9999910	39.0	10.50
211573410053	STATE SURVEY 9-26 LOW 1969	21 23 58.74613	157 50 6.77850	25804.980	517086.459	HI 3	0 03 36.45	0.9999936	4.48	10.49
211582120020	STATE SURVEY 9-5 1969	21 20 30.85366	158 04 38.71717	19404.097	491969.014	HI 3	-0 01 41.43	0.9999908	47.0	10.50
211582120012	STATE SURVEY 9-6 1969	21 21 57.44099	158 03 38.58085	22066.392	493702.817	HI 3	-0 01 19.63	0.9999905	71.0	10.49
211582120003	STATE SURVEY 9-7 1969	21 19 6.74467	158 00 50.66502	16815.363	498539.902	HI 3	-0 00 18.42	0.9999900	4.0	10.51
211582110021	STATE SURVEY 9-9 1969	21 23 28.90548	158 02 9.05440	24878.664	496282.662	HI 3	-0 00 47.07	0.9999902	108.0	10.48
211573430057	STATION G	21 18 40.67495	157 55 39.97452	16015.225	507493.955	HI 3	0 01 34.50	0.9999907		
211582120004	STATION X ARMY	21 18 29.66446	158 00 54.38819	15674.950	498432.496	HI 3	-0 00 19.76	0.9999900		
211574330013	STATION Z 1927	21 30 59.37386	157 58 55.23358	38732.987	501863.968	HI 3	0 00 23.75	0.9999900	436.59	10.45
211573430024	STREET MARKER SPIKE 1964	21 19 16.71443	157 53 29.54887	17125.796	511252.072	HI 3	0 02 21.97	0.9999916	3 SC	10.54
211581210018	SUNSET BEACH COMSAT EARTH STA	21 40 11.87468	158 01 57.34976	55726.274	496626.248	HI 3	-0 00 43.33	0.9999901	138 SC	9.86
211573410073	SW RADIO TOWER AERO OBSTR LT	21 27 29.94678	157 45 54.10055	32309.968	524354.592	HI 3	0 05 9.45	0.9999973		
211573410005	SWAMP	21 24 1.99794	157 45 15.86547	25915.942	525465.453	HI 3	0 05 22.61	0.9999980	181 SC	10.49
211573420012	TANK	21 17 9.46021	157 45 53.15916	13226.344	524410.249	HI 3	0 05 7.42	0.9999974		
211573130025	TANK 1952	21 19 56.91764	157 42 15.67044	18387.183	530669.756	HI 3	0 06 27.18	1.0000016	49.	10.62
211573130024	TANK 1952 RM 1	21 19 56.19738	157 42 15.11098	18365.061	530685.919	HI 3	0 06 27.38	1.0000016	50.	10.63
211573420042	TANTALUS-PUU OHIA 1872	21 19 57.53059	157 48 53.35282	18388.542	519210.067	HI 3	0 04 2.52	0.9999946	615 SC	10.57
211573430068	TEN USN 1960	21 21 24.79382	157 57 15.56615	21061.777	504737.532	HI 3	0 00 59.88	0.9999903	2 SC	10.50
211574340020	TIP 1932	21 42 42.12843	157 59 2.43512	60347.352	501654.487	HI 3	0 00 21.30	0.9999900	4 SC	9.60
211573410049	TRAM 1969	21 24 11.15266	157 49 30.91985	26187.672	518118.867	HI 3	0 03 49.57	0.9999941	215.	10.48
211573420133	TRANSIT OF VENUS 1875	21 18 11.34324	157 51 38.12326	15117.789	514464.932	HI 3	0 03 2.33	0.9999926	3 SC	10.57
211573420017	TRAVERSE MARK 1963	21 16 12.88331	157 46 40.53153	11484.309	523047.179	HI 3	0 04 50.02	0.9999966	3 SC	10.69

* For conversion of meters to U.S. Survey Feet multiply the meters by 39.37/12.0 which is 3.28083333333 to 12 significant figures

* For conversion of meters to International Feet multiply the meters by 100/0.3048 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. GEOD (M)	HT (M)
211581230055	TREE 1958	21 34 4.37903	158 14 29.29340	44442.345	474990.611	HI 3	-0 05 19.56	0.9999977	343.	10.45
211581320023	TREY	21 34 15.86783	158 15 54.96882	44799.710	472526.336	HI 3	-0 05 51.10	0.9999993	257 SC	10.46
211574320010	TURNOVER 1927	21 32 17.16895	157 51 55.06921	41131.594	513954.184	HI 3	0 02 58.03	0.9999924	633.	10.40
211581230032	TURTLE HEAD	21 34 33.47648	158 12 42.22757	45332.808	478072.099	HI 3	-0 04 40.30	0.9999959		
211573420184	ULT	21 16 25.90121	157 45 30.91189	11887.627	525053.579	HI 3	0 05 15.33	0.9999978		
211573420049	UNIVERSITY OF HAWAII LIBRARY	21 18 0.95753	157 49 12.66479	14802.613	518657.663	HI 3	0 03 55.15	0.9999943	91 SC	10.61
211573140006	US MON 1 1952	21 22 51.44327	157 43 10.46670	23752.004	529081.168	HI 3	0 06 8.05	1.0000004	183.	10.52
211573430005	US QUARANTINE STA FLAGSTAFF	21 18 26.93900	157 52 25.61037	15596.294	513095.888	HI 3	0 02 45.11	0.9999921		
211573420178	USE NORTH BASE 1909	21 18 12.71233	157 52 17.67360	15158.929	513324.989	HI 3	0 02 47.97	0.9999922	4 SC	10.57
211573420164	USE SEAWALL	21 17 50.05541	157 51 59.14981	14462.545	513859.465	HI 3	0 02 54.65	0.9999924		
211582140030	USMR 4 1964	21 24 2.65845	158 10 11.70620	25925.875	482381.259	HI 3	-0 03 43.21	0.9999938	263 SC	10.50
211573410011	VENICE	21 26 12.85408	157 45 39.08686	29939.540	524790.477	HI 3	0 05 14.65	0.9999976		
211572240003	W C 1	21 11 56.07061	157 08 34.64230	95902.439	450547.115	HI 2	-0 10 20.04	0.9999969	1 SC	11.21
211572310013	W C 17	21 08 44.83725	157 17 17.46230	90073.168	435444.761	HI 2	-0 13 27.18	1.0000181	1 SC	11.45
211572230006	W C 26	21 05 37.36317	157 08 53.03087	84256.878	449981.448	HI 2	-0 10 23.72	0.9999976	1 SC	11.82
211572230004	W C 27	21 05 39.04994	157 08 16.85704	84305.630	451025.665	HI 2	-0 10 10.71	0.9999963		
211573420039	WAAHILA 1928	21 18 0.03928	157 48 39.21763	14775.499	519621.722	HI 3	0 04 7.30	0.9999948	148.	10.61
211581220001	WAHIAWA USN COMM STA TOWER	21 30 57.71572	158 00 20.97158	38681.893	499396.439	HI 3	-0 00 7.69	0.9999900		
211572240001	WAIHEWAHEWA AERO BCN RED LT	21 08 11.50298	157 07 24.74628	88989.916	452543.168	HI 2	-0 09 53.09	0.9999945		
211574330010	WAIHILAHILA 1927	21 35 31.62842	157 54 47.36276	47108.970	508992.995	HI 3	0 01 55.05	0.9999910	390.	10.24
211573410055	WAIHOLE 1926	21 28 32.23317	157 50 34.08929	34215.569	516291.394	HI 3	0 03 27.18	0.9999933	16 SC	10.45
211573420015	WAIALAE 1927	21 18 1.89965	157 46 30.20156	14837.597	523340.195	HI 3	0 04 54.17	0.9999967	414.0	10.64
211573420014	WAIALAE KAHALA HILTON STACK	21 16 19.88973	157 46 25.83908	11700.397	523470.428	HI 3	0 04 55.38	0.9999968		
211581210010	WAIALAE 1875	21 40 57.00903	158 01 16.09877	57114.261	497812.385	HI 3	-0 00 28.12	0.9999901	164.	9.78
211581220030	WAIALUA 2 1927	21 35 20.50014	158 07 7.44442	46768.882	487704.318	HI 3	-0 02 37.28	0.9999919	4.	10.31
211581230001	WAIALUA SUGAR CO MILL STACK	21 34 25.52712	158 07 30.38506	45078.615	487043.059	HI 3	-0 02 45.61	0.9999921		
211581220029	WAIALUA USE	21 35 19.53597	158 06 52.45580	46738.904	488135.453	HI 3	-0 02 31.76	0.9999917	4 SC	10.30
211582140014	WAIANAE MILL CHIMNEY	21 26 39.90775	158 11 13.32534	30764.264	480612.228	HI 3	-0 04 6.17	0.9999946		
211572230015	WAIELI	21 06 7.92400	157 14 14.49851	85227.441	440706.443	HI 2	-0 12 19.71	1.0000101		
211572230013	WAIELI 1885	21 06 4.28904	157 14 10.24353	85115.208	440828.846	HI 2	-0 12 18.14	1.0000099	172 SC	11.69
211572230014	WAIELI 2 1945	21 06 7.34153	157 14 11.15036	85209.181	440803.010	HI 2	-0 12 18.50	1.0000100	193 SC	11.68
211573420063	WAIKIKI 1927	21 17 3.76602	157 49 44.53335	13042.634	517741.043	HI 3	0 03 43.41	0.9999939	2 SC	10.62
211573420061	WAIKIKI 2	21 17 4.04803	157 49 43.98779	13051.324	517756.760	HI 3	0 03 43.61	0.9999939	1.25	10.62
211573420066	WAIKIKI 3	21 17 7.26527	157 49 47.64987	13150.158	517651.092	HI 3	0 03 42.29	0.9999938	1.15	10.62
211573420068	WAIKIKI LATITUDE ECC	21 16 41.04886	157 49 52.02080	12343.723	517525.962	HI 3	0 03 40.63	0.9999938	3 SC	10.63
211573420004	WAILUPE 1928	21 16 50.80355	157 45 28.84048	12653.606	525112.119	HI 3	0 05 16.18	0.9999978	91.	10.69
211573420007	WAILUPE CUPOLA	21 16 32.93031	157 45 36.23892	12103.578	524899.685	HI 3	0 05 13.42	0.9999977		
211573420009	WAILUPE FLAGSTAFF	21 16 35.27305	157 45 36.85148	12175.603	524881.918	HI 3	0 05 13.21	0.9999976		
211573130012	WAIMANALO 1927	21 19 13.97640	157 40 55.12568	17071.006	532993.420	HI 3	0 06 56.26	1.0000034	422 SC	10.67
211573130010	WAIMANALO 2 1969	21 19 7.16243	157 40 33.28432	16862.718	533623.288	HI 3	0 07 4.17	1.0000040	381.	10.67
211573130043	WAIMANALO RIDGE 1952	21 21 13.76958	157 44 0.72089	20745.433	527638.601	HI 3	0 05 49.30	0.9999994	129.	10.57
211573130017	WAIMANALO WHARF DERRICK	21 19 53.71694	157 41 30.31590	18291.248	531976.896	HI 3	0 06 43.67	1.0000026		
211573440005	WAIMANO 1969	21 25 47.90675	157 56 43.34721	29154.338	505662.983	HI 3	0 01 11.85	0.9999904	265.	10.47
211581210017	WAIMEA 1910	21 38 32.38553	158 03 41.89444	52667.216	493619.421	HI 3	-0 01 21.84	0.9999905	77.0	10.03
211582110019	WAIPAHU 1969	21 23 0.99203	158 01 56.77915	24020.086	496636.066	HI 3	-0 00 42.58	0.9999901	63.	10.49

* 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

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

21

Geodetic Control Diagram

OAHU

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)
211582110009	WAIPAHU MILL OLD STK-OAHU MILL	21 23 10.49698	158 00 28.10391	24312.091	499190.455	HI 3	-0 00 10.25	0.9999900	
211582110008	WAIPAHU MILL STACK	21 23 10.71101	158 00 26.61038	24318.672	499233.477	HI 3	-0 00 9.70	0.9999900	
211582110003	WAIPAHU RADIO STATION KAHU TWR	21 23 16.21854	157 59 56.37144	24488.043	500104.521	HI 3	0 00 1.32	0.9999900	
211582110010	WAIPIO UKA 1873	21 26 52.95974	158 00 34.18785	31154.152	499015.619	HI 3	-0 00 12.50	0.9999900	220. 10.47
211582110011	WAIPIO UKA WATER TANK	21 27 6.43443	158 00 40.54905	31568.593	498832.488	HI 3	-0 00 14.83	0.9999900	10.47
211572240021	WALHUNA AERO BEACON RED LIGHT	21 09 22.68538	157 07 44.22231	91180.755	451987.578	HI 2	-0 10 0.65	0.9999951	11.49
211573420089	WAOLANI 1927	21 20 53.41387	157 50 20.47192	20104.516	516697.885	HI 3	0 03 30.97	0.9999934	432.54 10.53
211581230048	WART	21 34 30.36966	158 14 18.33027	45241.246	475307.242	HI 3	-0 05 15.63	0.9999975	
211581230063	WATER	21 33 37.00630	158 14 10.43412	43599.620	475531.915	HI 3	-0 05 12.52	0.9999974	441 SC 10.47
211573430085	WEAVER 1927	21 19 8.54207	157 58 41.04705	16870.736	502275.311	HI 3	0 00 28.70	0.9999901	3 SC 10.52
211581220025	WEED	21 34 33.20412	158 06 22.04537	45313.275	489009.258	HI 3	-0 02 20.49	0.9999915	14.80 10.34
211581230007	WEST KAALA 1969	21 30 20.31672	158 08 55.67556	37538.966	484582.177	HI 3	-0 03 16.38	0.9999929	1193. 10.50
211581230041	WEST RADIO TOWER	21 34 38.88805	158 13 28.53736	45501.115	476740.086	HI 3	-0 04 57.35	0.9999967	
211581320004	WET 1932	21 34 47.36579	158 15 7.22065	45766.205	473901.585	HI 3	-0 05 33.68	0.9999984	3 SC 10.43
211572230010	WHARF	21 05 20.87258	157 11 37.90842	83764.784	445220.995	HI 2	-0 11 22.92	1.0000037	
211582110020	WHEELER AFB AFCS REC FAC TOWER	21 28 37.33315	158 02 3.84362	34364.634	496434.837	HI 3	-0 00 45.34	0.9999902	
211582110022	WHEELER AFB CONTROL TOWER BCN	21 28 53.62029	158 02 32.19265	34865.764	495618.871	HI 3	-0 00 55.73	0.9999902	
211582110049	WHEELER AFB N REC MAST	21 28 33.18938	158 02 5.62993	34237.199	496383.385	HI 3	-0 00 45.99	0.9999902	
211582110048	WHEELER AFB S REC MAST	21 28 18.54757	158 02 0.88571	33786.844	496519.864	HI 3	-0 00 44.25	0.9999901	
211582110037	WHIPP 1967	21 22 25.98096	158 05 57.37498	22946.196	489704.793	HI 3	-0 02 10.25	0.9999913	511. 10.49
211572230012	WHITE 1925	21 05 23.42517	157 13 8.65612	83852.169	442601.973	HI 2	-0 11 55.60	1.0000074	4 SC 11.75
211573410059	WHITE CHURCH SPIRE	21 29 41.82864	157 51 6.91719	36355.144	515344.320	HI 3	0 03 15.33	0.9999929	
211581230027	WHITE WATER TANK	21 34 43.63901	158 12 26.64364	45644.770	478520.838	HI 3	-0 04 34.60	0.9999957	
211581220003	WHITMORE MIL RES DOUBLE TANK	21 32 24.84644	158 01 0.87447	41361.799	498248.326	HI 3	-0 00 22.35	0.9999900	
211573420022	WILHELMINA C OF RESERVOIR SHED	21 17 53.34020	157 47 6.83646	14572.874	522284.650	HI 3	0 04 40.83	0.9999961	
211581230003	WIND	21 34 54.74062	158 08 5.96438	45977.977	486020.269	HI 3	-0 02 58.75	0.9999924	
211574340009	WIRELESS POLE	21 40 57.81782	157 56 38.45571	57140.034	505793.796	HI 3	0 01 14.46	0.9999904	
211573420146	WIRELESS POLE TOP	21 18 11.86314	157 51 46.33329	15133.572	514228.291	HI 3	0 02 59.35	0.9999925	123 SC 10.61
211573420031	WOODLAWN 1928	21 18 33.97608	157 48 3.66066	15820.509	520645.242	HI 3	0 04 20.32	0.9999953	161 SC 10.54
211573420111	WYLLIE 1927	21 20 4.26092	157 51 7.52205	18591.450	515343.652	HI 3	0 03 13.72	0.9999929	156 SC 11.77
211572230005	X	21 06 11.82317	157 08 46.19800	85316.095	450181.854	HI 2	-0 10 21.53	0.9999973	3 SC 10.50
211573430064	Y 2 1960	21 21 19.99821	157 56 48.58495	20914.528	505514.942	HI 3	0 01 9.70	0.9999904	3 SC 10.41
211581230039	Y M C A 1932	21 34 45.75278	158 13 27.08085	45712.191	476782.291	HI 3	-0 04 56.84	0.9999967	

* 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

