

Tidal Datum Errors for Alaska, Pacific Islands, and Caribbean Islands of the United States

Standard deviation (or accuracy) of Tidal Datum Computations:

The time period necessary to incorporate all of the major astronomical tide producing cycles into the computation of a tidal datum is 19-years. All tidal datums are referenced to specific 19-year National Tidal Datum Epochs (NTDE). First reduction tidal datums are determined directly by averaging values of the tidal parameters over a 19-year NDTE. Errors in determination of tidal datums using First Reduction for the 19-year NTDE are theoretically zero. NTDE datums for short-term subordinate stations are computed and adjusted to a 19-year NTDE equivalent using simultaneous comparison with an appropriate nearby control station (NOS, 2003, Swanson, 1974, and Marmer, 1951). See Gill and Fisher, 2008:

http://tidesandcurrents.noaa.gov/publications/Technical_Memorandum_NOS_COOPS_0048.pdf for the areas of coverage for tidal datum computation for each National Water Level Observation Network (NWLON) control tide station.

Errors in determination of tidal datums at short-term stations through the method of simultaneous comparison are known to be generally correlated with the length of the subordinate station observations, with geographic distance from the control station and with difference in range of tide and time of tide between control and subordinate stations. In applied research performed by Bodnar (1981), multiple curvilinear regression equations estimating the accuracy of computed 19-year equivalent tidal datums were developed. The formulas for Mean Low Water were adopted for use in estimating tidal datum errors because the low water differences express the effects of shallow water and bottom friction better than MHW. Although these regression equations are the best available estimate of the datum accuracy they may be unreliable in areas which have widely divergent characteristics.

The table below provides datum error estimates using the standard deviation of the estimate (in feet). To estimate the 95% Confidence Interval of the errors, multiply the standard deviation by 1.96.

Station Name	STATION ID	Latitude	Longitude	Error in Meters	Error in Feet
PORT ALLEN, HANAPEPE BAY, KAUAI ISLAND	1611347	21.903300	-159.592000	0.005	0.02
NAWILIWILI, NAWILIWILI HARBOR, KAUAI	1611400	21.954444	-159.356111	0.000	0.00
HONOLULU, HONOLULU HARBOR, OAHU ISLAND	1612340	21.306700	-157.867000	0.000	0.00
FORT KAMEHAMEHA, BISHOP POINT, PEARL HBR	1612366	21.330000	-157.967000	0.013	0.04
FORD ISLAND, FERRY DOCK, PEARL HARBOR	1612404	21.368300	-157.940000	0.013	0.04
MOKUOLOE, KANEOHE BAY, OAHU ISLAND	1612480	21.433056	-157.790000	0.000	0.00
HALEIWA, WAIALUA BAY, OAHU IS	1612668	21.598300	-158.108000	0.021	0.07
LAIEMALOO, OAHU ISLAND	1612702	21.636700	-157.922000	0.015	0.05
KAUNAKAKAI HARBOR, MOLOKAI ISLAND	1613198	21.085000	-157.032000	0.018	0.06
KAHULUI, KAHULUI HARBOR, MAUI ISLAND	1615680	20.895000	-156.476667	0.000	0.00
KAWAIHAE, HAWAII ISLAND	1617433	20.036583	-155.829361	0.008	0.03
HILO, HILO BAY, KUHIO BAY, HAWAII ISLAND	1617760	19.730278	-155.055833	0.001	0.00
JOHNSTON ATOLL, PACIFIC OCEAN	1619000	16.738300	-169.530000	0.000	0.00
SAND ISLAND, MIDWAY ISLANDS	1619910	28.211700	-177.360000	0.000	0.00

Station Name	STATION ID	Latitude	Longitude	Error in Meters	Error in Feet
APRA HARBOR, GUAM, PACIFIC OCEAN	1630000	13.438720	144.653944	0.000	0.00
PAGO BAY, GUAM, PACIFIC OCEAN	1631428	13.428300	144.797000	0.008	0.03
TANAPAG HARBOR, SAIPAN, N MARIANAS IS	1633227	15.226700	145.737000	0.022	0.07
FARE UTE POINT, PAPEETE HARBOR	1732417	-17.535000	-149.572000	0.004	0.01
PAGO PAGO, AMERICAN SAMOA	1770000	-14.280000	-170.690000	0.000	0.00
KWAJALEIN, MARSHALL ISLANDS	1820000	8.731610	167.736222	0.000	0.00
CHUUK, MOEN ISLAND, E. CAROLINE ISLANDS	1840000	7.446670	151.847000	0.000	0.00
WAKE ISLAND, PACIFIC OCEAN	1890000	19.290000	166.618000	0.000	0.00
SUVA, SUVA HARBOR	1910000	-18.133300	178.425000	0.000	0.00
BER. BIO. STA, ST GEORGES, BERMUDA	2695535	32.370000	-64.695000	0.000	0.00
BERMUDA ESSO PIER, ST. GEORGES ISLAND	2695540	32.373389	-64.703306	0.000	0.00
CUSTOM HOUSE COVE, MARY ISLAND	9450296	55.100000	-131.217000	0.016	0.05
BOCA DE QUADRA	9450305	55.116700	-130.798000	0.018	0.06
METLAKATLA, PORT CHESTER	9450314	55.128300	-131.567000	0.015	0.05
HYDABURG, SUKKWAN STRAIT	9450364	55.201694	-132.823000	0.021	0.07
KETCHIKAN, TONGASS NARROWS	9450460	55.331830	-131.626194	0.000	0.00
TROCADERO BAY	9450463	55.351667	-132.938056	0.028	0.09
SALTERY COVE, SKOWL ARM	9450495	55.401700	-132.328000	0.017	0.06
HOLLIS ANCHORAGE, KASAAN BAY	9450544	55.480000	-132.645000	0.019	0.06
CRAIG, KLAWOCK INLET, TROCADERO BAY	9450551	55.488300	-133.142000	0.027	0.09
STEAMBOAT BAY, NOYES ISLAND	9450578	55.533300	-133.637000	0.027	0.09
KASAAN, KASAAN BAY, CLARENCE STRAIT	9450581	55.535000	-132.397000	0.018	0.06
SHINAKU INLET	9450618	55.592917	-133.152000	0.027	0.09
BIG SALT LAKE, ALBENO BAY	9450623	55.600000	-132.950000	0.033	0.11
LINDEMAN COVE	9450625	55.601700	-132.512000	0.019	0.06
NOSSUK BAY	9450711	55.721667	-133.350000	0.026	0.09
MAGNETIC POINT, UNION BAY, ERNEST SOUND	9450753	55.788283	-132.190883	0.019	0.06
RATZ HARBOR, CLARENCE STRAIT	9450815	55.880000	-132.595000	0.020	0.07
BECK ISLAND, CLARENCE STRAIT	9450906	56.046700	-132.862000	0.022	0.07
KUIU ISLAND, AFFLECK CANAL	9450913	56.036900	-134.115000	0.024	0.08
BURROUGH BAY, BEHM CANAL	9450914	56.038300	-131.095000	0.020	0.07
THORNE ISLAND, WHALE PASSAGE	9450938	56.058300	-132.968000	0.022	0.07
THOMS POINT, ZIMOVIA STRAIT	9450970	56.118300	-132.078000	0.021	0.07
BLASHKE ISALND, CLARENCE STRAIT	9450973	56.126700	-132.895000	0.023	0.08
SHAKAN STRAIT (NORTHEAST END)	9450987	56.148300	-133.460000	0.026	0.08
POINT HARRINGTON, CLARENCE STRAIT	9451005	56.178300	-132.697000	0.022	0.07
BRADFIELD CANAL	9451012	56.183300	-131.572000	0.021	0.07
VILLAGE ROCK, ZIMOVIA STRAIT	9451037	56.220000	-132.297000	0.022	0.07
PORT ALEXANDER, BARANOF ISLAND	9451054	56.246700	-134.647000	0.022	0.07
BUSHY ISLAND, SNOW PASSAGE	9451074	56.276700	-132.985000	0.023	0.08
REEF POINT, STIKINE STRAIT	9451124	56.353300	-132.553000	0.023	0.07
MADAN BAY	9451152	56.392200	-132.169000	0.023	0.07
WRANGELL, WRANGELL ISLAND	9451204	56.470000	-132.387000	0.023	0.08
MONTE CARLO ISLAND	9451247	56.535000	-133.767000	0.027	0.09
POINT LOCKWOOD, WRANGELL NARROWS	9451263	56.558300	-132.963000	0.024	0.08
BEECHER PASS, WRANGELL NARROWS	9451287	56.595000	-132.987000	0.025	0.08
ANCHOR POINT, WRANGELL NARROWS	9451317	56.638300	-132.927000	0.026	0.09
PAPKE'S LANDING, WRANGELL NARROWS	9451346	56.676700	-132.933000	0.027	0.09
THE SUMMIT, N.W. SUMMIT ISLAND	9451349	56.682422	-133.736908	0.027	0.09
DOROTHY COVE, NECKER BAY	9451376	56.721700	-135.075000	0.017	0.05
GOLF ISLAND, NECKER ISLANDS	9451421	56.786700	-135.393000	0.016	0.05
LECONTE BAY	9451422	56.788300	-132.502000	0.026	0.08
TURN POINT	9451434	56.800000	-132.980000	0.027	0.09

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ENTRANCE IS., KEKU STRAIT	9451438	56.811700	-133.787000	0.027	0.09
RED BLUFF BAY, BARANOF ISLAND	9451467	56.856700	-134.723000	0.023	0.07
SAGINAW BAY, KUIU ISLAND	9451497	56.903333	-134.303056	0.029	0.09
KAKE HARBOR	9451528	56.948306	-133.894722	0.025	0.08
SITKA, BARONOF ISLAND, SITKA SOUND	9451600	57.051700	-135.342000	0.000	0.00
BARANOF, WARM SPRING BAY	9451625	57.088333	-134.825000	0.017	0.06
THE BROTHERS, STEPHENS PASSAGE	9451785	57.295000	-133.797000	0.029	0.10
SCRAGGY ISLAND	9451805	57.340000	-135.707000	0.016	0.05
SERGIUS NARROWS	9451853	57.410000	-135.627000	0.021	0.07
CANNERY WHARF, GAMBIER BAY	9451906	57.483300	-133.960000	0.030	0.10
GOOD ISLAND, GAMBIER BAY	9451909	57.486700	-133.898000	0.030	0.10
PROVOROTNI ISLAND, POGIBSHI PT	9451936	57.515000	-135.555000	0.024	0.08
TARGET ISLAND, MITCHELL BAY	9451953	57.533300	-134.417000	0.025	0.08
HOLKHAM BAY, STEPHENS PASSAGE	9452067	57.760000	-133.603000	0.020	0.06
TAKU HARBOR	9452123	58.068300	-134.012000	0.016	0.05
JUNEAU, GASTINEAU CHANNEL, STEPHENS PASS	9452210	58.298300	-134.412000	0.000	0.00
YOUNG BAY	9452249	58.183300	-134.587000	0.014	0.05
HAWK INLET ENTRANCE	9452294	58.085000	-134.777000	0.016	0.05
BARLOW COVE, LYNN CANAL	9452318	58.321700	-134.878000	0.015	0.05
FALSE BAY, CHATHAM STRAIT	9452328	57.966700	-134.935000	0.022	0.07
COVE POINT, BERNER'S BAY	9452346	58.751700	-135.028000	0.020	0.06
SWANSON HARBOR	9452368	58.215000	-135.127000	0.017	0.06
SKAGWAY, TAIYA INLET	9452400	59.450000	-135.327000	0.000	0.00
CHILKAT INLET	9452421	59.170000	-135.400000	0.016	0.05
TAIYASANKA HARBOR	9452434	59.301700	-135.428000	0.014	0.05
EXCURSION INLET (SOUTH END)	9452437	58.416700	-135.447000	0.019	0.06
HOONAH	9452438	58.107556	-135.444194	0.024	0.08
MUIR INLET, GLACIER BAY	9452584	58.913300	-136.108000	0.020	0.07
PELICAN HARBOR, LISIANSKI INLET	9452611	57.957778	-136.226778	0.022	0.07
ELFIN COVE, PORT ALTHORP	9452634	58.194720	-136.346944	0.008	0.02
COMPOSITE ISLAND, GLACIER BAY	9452682	58.888300	-136.573000	0.022	0.07
TARR INLET	9452749	58.964778	-136.877583	0.022	0.07
YAKUTAT, YAKUTAT BAY	9453220	59.548500	-139.733400	0.000	0.00
MORAINÉ BAY, ICY BAY	9453443	59.930000	-141.363000	0.021	0.07
CORDOVA, ORCA INLET, PRINCE WILLIAM SD	9454050	60.558300	-145.753000	0.000	0.00
VALDEZ, PRINCE WILLIAM SOUND	9454240	61.125000	-146.362000	0.000	0.00
CAPE HICHINBROOK	9454329	60.238300	-146.648000	0.019	0.06
BUSBY ISLAND, PRINCE WILLIAM SOUND	9454374	60.898300	-146.782000	0.016	0.05
BLIGH ISLAND, T-16	9454381	60.806700	-146.798000	0.017	0.05
COLUMBIA GLACIER, COLUMBIA BAY	9454460	61.023300	-147.085000	0.017	0.05
PORT CHALMERS	9454511	60.241800	-147.249000	0.021	0.07
PERCH POINT, MONTAGUE ISLAND	9454561	60.126700	-147.395000	0.022	0.07
WOODED ISLAND	9454562	59.875000	-147.403000	0.024	0.08
SEAL ISLAND	9454564	60.425000	-147.410000	0.021	0.07
MONTAGUE ISLAND, NE BAZEL PT, MON. STRA.	9454616	60.025000	-147.592000	0.023	0.07
LOUIS BAY	9454642	60.461700	-147.672000	0.021	0.07
SOUTH ARM, KNIGHT ISLAND, BAY OF ISLES	9454652	60.366700	-147.700000	0.022	0.07
SNUG HARBOR, KNIGHT ISLAND	9454662	60.250000	-147.717000	0.022	0.07
POINT HELEN, KNIGHT ISLAND	9454671	60.153300	-147.767000	0.023	0.08
PORT AUDREY	9454673	60.343300	-147.768000	0.022	0.07
MACLEOD HARBOR	9454674	59.890000	-147.795000	0.021	0.07
HERRING POINT, KNIGHT ISLAND, PR WIL SND	9454691	60.475000	-147.792000	0.021	0.07
LATOUCHE	9454713	60.053300	-147.907000	0.023	0.08

Station Name	STATION ID	Latitude	Longitude	Error in Meters	Error in Feet
PERRY ISLAND (SOUTH BAY)	9454721	60.671700	-147.932000	0.021	0.07
GUGUAK	9454751	60.100000	-148.038000	0.024	0.08
BAINBRIDGE POINT	9454755	60.196700	-148.042000	0.023	0.08
CHENEGA ISLAND (S.W. END)	9454777	60.283300	-148.113000	0.023	0.07
APPLEGATE ISLAND	9454794	60.623300	-148.165000	0.022	0.07
POINT ERLINGTON, ERLINGTON ISLAND	9454814	59.938300	-148.227000	0.025	0.08
BLUE FJORD, PORT NELLIE JUAN	9454818	60.491700	-148.242000	0.022	0.07
COCHRANE BAY, PR. WILLIAM SOUND	9454851	60.663300	-148.357000	0.022	0.07
BLACKSTONE BAY, PR. WILLIAM SOUND	9454907	60.765000	-148.523000	0.022	0.07
WHITTIER	9454949	60.778300	-148.665000	0.015	0.05
KINGS BAY INSIDE, PRINCE WILLIAM SOUND	9454951	60.456700	-148.665000	0.023	0.08
SEWARD, RESURRECTION BAY	9455090	60.120000	-149.426667	0.000	0.00
AGNES COVE	9455120	59.773300	-149.588000	0.016	0.05
BEAR COVE, AIALIK PENINSULA, KENAI PENIN	9455128	59.801700	-149.615000	0.014	0.05
AIALIK BAY, NORTH END	9455145	59.953300	-149.715000	0.015	0.05
AIALIK SILL, AIALIK BAY	9455146	59.885000	-149.718000	0.013	0.04
CAMP COVE, HARRIS PENINSULA	9455151	59.693300	-149.748000	0.017	0.06
CRATER BAY, HARRIS BAY	9455159	59.713300	-149.787000	0.017	0.06
UPPER NORTHWESTERN FIORD	9455204	59.790000	-150.032000	0.018	0.06
PORT GRAHAM	9455437	59.350000	-151.826667	0.014	0.05
SELDOVIA, COOK INLET	9455500	59.440528	-151.719944	0.000	0.00
KASITSNA BAY, KACHEMAK BAY	9455517	59.468306	-151.565000	0.013	0.04
HOMER	9455557	59.603300	-151.420000	0.011	0.03
BEAR COVE, KACHEMAK BAY	9455595	59.725000	-151.023000	0.018	0.06
ANCHOR POINT	9455606	59.771972	-151.867028	0.017	0.06
CAPE KASILOF, COOK INLET	9455711	60.336700	-151.380000	0.018	0.06
KALIGAN ISLAND (NORTH END), COOK INLET	9455732	60.511700	-151.952000	0.019	0.06
CHINULNA POINT, COOK INLET	9455735	60.503300	-151.283000	0.015	0.05
NIKISKI, COOK INLET	9455760	60.683300	-151.398000	0.002	0.01
POINT POSSESSION (T-39, OPR-469)	9455866	61.036700	-150.413000	0.019	0.06
NORTH FORELAND	9455869	61.043306	-151.163000	0.020	0.06
FIRE ISLAND, COOK INLET	9455912	61.173300	-150.213000	0.016	0.05
ANCHORAGE, KNIK ARM, COOK INLET	9455920	61.238306	-149.890000	0.000	0.00
PORT MACKENZIE, COOK INLET	9455934	61.268300	-149.917000	0.011	0.04
GOOSE CREEK KNIK ARM, COOK INLET	9455963	61.393300	-149.847000	0.016	0.05
NUKSHAK ISLAND, SHELIKOF STRAIT	9456717	58.391700	-153.958000	0.047	0.15
AGUCHIK ISLAND, KUKAK BAY	9456901	58.290000	-154.270000	0.047	0.15
TAKLI ISLAND, SHELIKOF STRAIT	9456992	58.063300	-154.477000	0.045	0.15
KODIAK, ST PAULS HARBOR	9457283	57.745000	-152.483000	0.010	0.03
OUZINKIE	9457287	57.921700	-152.498000	0.015	0.05
KODIAK ISLAND, WOMENS BAY	9457292	57.731700	-152.512000	0.000	0.00
PORT LIONS, KODIAK ISLAND	9457391	57.873472	-152.867111	0.016	0.05
NACHALNI ISLAND	9457407	57.978300	-152.925000	0.028	0.09
OLD HARBOR	9457527	57.202778	-153.303889	0.020	0.06
LARSEN BAY, KODIAK ISLAND	9457724	57.533300	-153.990000	0.024	0.08
UYAK (CANNERY DOCK), UYAK BAY	9457728	57.635000	-154.007000	0.027	0.09
ALITAK, LAZY BAY	9457804	56.898300	-154.247000	0.011	0.04
PUALE BAY	9458209	57.706700	-155.393000	0.041	0.14
CHIRIKOF ISLAND, SW ANCHORAGE	9458293	55.808300	-155.740000	0.030	0.10
CHOWIET ISLAND, SEMIDI ISLAND	9458519	56.051700	-156.698000	0.031	0.10
UNAVIKSHAK ISLAND	9458762	56.491700	-157.740000	0.029	0.10
NAKCHAMIK ISLAND, CHIGNIK BAY	9458779	56.351700	-157.812000	0.029	0.09
KUJULIK BAY (NORTH SHORE)	9458819	56.613300	-157.983000	0.030	0.10

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CHANKLIUT ISLAND	9458849	56.146700	-158.107000	0.027	0.09
CASTLE BAY, NORTHWEST ARM	9458907	56.231700	-158.347000	0.027	0.09
CHIGNIK, ANCHORAGE BAY	9458917	56.296700	-158.400000	0.027	0.09
HUMP ISLAND, KUIUKTA BAY	9458964	56.113300	-158.598000	0.024	0.08
MITROFANIA ISLAND	9459016	55.890000	-158.820000	0.018	0.06
HERENDEEN ISLAND, SHUMAGIN ISLANDS	9459163	55.065556	-159.418667	0.019	0.06
BIRD ISLAND, SHUMAGIN BANK	9459251	54.835222	-159.759556	0.020	0.06
SAND POINT, POPOF ISLAND	9459450	55.336694	-160.502000	0.000	0.00
DOLGOI HARBOR, DOLGOI ISLAND	9459758	55.121700	-161.792000	0.021	0.07
KING COVE, DEER PASSAGE, PACIFIC OCEAN	9459881	55.061700	-162.327000	0.023	0.07
COLD BAY (2 MILES W OF DELTA PT)	9459949	55.208300	-162.698000	0.018	0.06
ADAK ISLAND, SWEEPER COVE	9461380	51.863300	-176.632000	0.000	0.00
ATKA, NAZAN BAY	9461710	52.231700	-174.173000	0.017	0.05
NIKOLSKI	9462450	52.940610	-168.871306	0.009	0.03
UNALASKA, DUTCH HARBOR	9462620	53.880000	-166.537000	0.000	0.00
BIORKA VILLAGE, BEAVER INLET	9462645	53.828917	-166.216250	0.039	0.13
REEF BIGHT	9462662	54.130722	-166.099333	0.018	0.06
BROAD BIGHT	9462676	54.064583	-165.937056	0.032	0.11
AKUTAN	9462694	54.133278	-165.777306	0.018	0.06
GREEN BIGHT	9462705	54.110278	-165.661389	0.039	0.13
SURF BAY, AKUTAN BAY	9462711	54.150833	-165.615000	0.019	0.06
AKUN COVE, AKUN ISLAND	9462719	54.233300	-165.533000	0.018	0.06
TRIDENT BAY, AKUN ISLAND	9462721	54.140000	-165.527000	0.025	0.08
ROOTOK ISLAND, ROOTOK STRAIT	9462723	54.052222	-165.514167	0.038	0.13
TIGALDA BAY, TIGALDA ISLAND	9462782	54.120000	-164.977000	0.025	0.08
SE TIGALDA ISLAND, PACIFIC OCEAN	9462786	54.101806	-164.941583	0.030	0.10
CAPE SARICHEF, UNIMAK ISLAND	9462787	54.600000	-164.928000	0.027	0.09
SCOTCH CAP, UNIMAK ISLAND	9462808	54.393639	-164.745722	0.023	0.08
PORT MOLLER, BRISTOL BAY	9463502	55.990000	-160.562000	0.031	0.10
VILLAGE COVE, ST. PAUL ISLAND	9464212	57.125306	-170.285167	0.000	0.00
PROTECTION POINT, NUSHAGAK BAY	9465056	58.500000	-158.712000	0.000	0.00
CLARKS POINT, NUSHAGAK BAY	9465261	58.848300	-158.552000	0.000	0.00
SNAG POINT, DILLINGHAM, NUSHAGAK BAY	9465374	59.040000	-158.447000	0.000	0.00
PLATINUM	9465396	59.046700	-161.818000	0.000	0.00
CARTER BAY, KUSKOKWIM BAY	9465601	59.378017	-162.029333	0.000	0.00
QUINHAGAK (KWINAK), KUSHKOKWIN RIVER	9465831	59.750553	-161.915436	0.000	0.00
POPOKAMUTE, KUSKOKWIM RIVER	9466057	60.123278	-162.500361	0.000	0.00
SE OF HELMICK POINT, KUSKOKWIM RIVER	9466153	60.270278	-162.410167	0.000	0.00
MEKORYUK, MEKORYUK RIVER ENTRANCE	9466217	60.416700	-166.167000	0.000	0.00
NELSON IS (BLUFF S.E. OF TUNUNAK)	9466298	60.516700	-165.133000	0.000	0.00
LOMAVIK, AK	9466328	60.554278	-162.297139	0.000	0.00
BETHEL, KUSKOKWIM RIVER	9466477	60.800000	-161.750000	0.000	0.00
DALL POINT, HOOPER BAY	9466931	61.531700	-166.148000	0.000	0.00
NUNAM IQUA (SHELDON POINT)	9467551	62.532944	-164.845278	0.000	0.00
NORTHEAST CAPE, ST. LAWRENCE IS	9468039	63.316700	-168.967000	0.000	0.00
AKEFTAPAK, ST. LAWRENCE ISLAND	9468283	63.718500	-171.644667	0.000	0.00
UNALAKLEET	9468333	63.875000	-160.788000	0.000	0.00
SHAKTOOLIK	9468691	64.380222	-161.235139	0.046	0.15
NOME, NORTON SOUND	9468756	64.500000	-165.430000	0.000	0.00
POINT SPENCER, PORT CLARENCE	9469237	65.256700	-166.847000	0.031	0.10
TELLER, PORT CLARENCE	9469239	65.266700	-166.353000	0.036	0.12
LOST RIVER, SEWARD PENINSULA	9469338	65.390000	-167.145000	0.035	0.11
TIN CITY, BERING SEA	9469439	65.558333	-167.975000	0.039	0.13

Station Name	STATION ID	Latitude	Longitude	Error in Meters	Error in Feet
IKPEK LAGOON	9469626	65.893300	-167.273000	0.038	0.12
DEERING, KOTZEBUE SOUND	9469751	66.097167	-162.740472	0.031	0.10
SHISHMAREF INLET 2	9469854	66.263300	-166.020000	0.026	0.09
KOTZEBUE, KOTZEBUE SOUND	9490424	66.901700	-162.582000	0.033	0.11
CAPE KRUSENSTERN, KOTZEBUE SOUND	9490571	67.054194	-163.321278	0.027	0.09
RED DOG DOCK	9491094	67.576700	-164.065000	0.000	0.00
KIVALINA	9491253	67.726700	-164.592000	0.000	0.00
POINT HOPE	9491873	68.341700	-166.808000	0.027	0.09
POINT LAY	9493300	69.744722	-163.064167	0.000	0.00
WAINWRIGHT INLET, CHUKCHI SEA	9494168	70.598300	-160.108000	0.000	0.00
BARROW OFFSHORE	9494935	71.360111	-156.729861	0.019	0.06
PRUDHOE BAY	9497645	70.400000	-148.527000	0.000	0.00
BARTER ISLAND, ARCTIC	9499176	70.128556	-143.611028	0.026	0.09
MADERO, TAMPICO HARBOR, MEXICO	9500966	22.261700	-97.795000	0.008	0.03
SETTLEMENT POINT, GRAND BAHAMAS	9710441	26.710000	-78.996700	0.000	0.00
LEINSTER POINT, LEINSTER BAY, ST. JOHN'S	9751309	18.367611	-64.720722	0.021	0.07
CHRISTIANSTED, ST. CROIX ISLAND	9751364	17.750000	-64.705000	0.006	0.02
ST JOHN'S ISLAND, CORAL HARBOR	9751373	18.348300	-64.716700	0.016	0.05
LAMESHUR BAY, ST. JOHN	9751381	18.318250	-64.724222	0.006	0.02
LIME TREE BAY, ST CROIX	9751401	17.694722	-64.753806	0.000	0.00
LOVANGO CAY, ST JOHN	9751467	18.360667	-64.803528	0.016	0.05
DOG ISLAND, ST THOMAS	9751494	18.297139	-64.817750	0.013	0.04
REDHOOK BAY, ST THOMAS, USVI	9751540	18.326700	-64.851700	0.024	0.08
WATER BAY, SAINT THOMAS	9751583	18.348944	-64.864167	0.020	0.07
FREDERICKSTED, ST. CROIX ISLAND	9751584	17.713300	-64.883300	0.013	0.04
CHARLOTTE AMALIE, ST. THOMAS	9751639	18.335833	-64.920000	0.000	0.00
RUY POINT, ST THOMAS	9751768	18.371250	-64.963472	0.019	0.06
BOTANY BAY, ST THOMAS	9751774	18.363300	-65.035000	0.024	0.08
CULEBRA	9752235	18.300860	-65.302472	0.008	0.03
ISABEL SEGUNDA, VIEQUES ISLAND	9752619	18.152528	-65.443806	0.015	0.05
ESPERANZA, VIEQUES ISLAND	9752695	18.093860	-65.471361	0.006	0.02
ISLA PALOMINOS	9752962	18.344972	-65.569500	0.019	0.06
PLAYA DE FAJARDO	9753216	18.335222	-65.631111	0.008	0.03
NAGUABO	9753641	18.187056	-65.711389	0.021	0.07
YABUCOA HARBOR	9754228	18.055083	-65.833000	0.014	0.05
SAN JUAN, LA PUNTILLA, SAN JUAN BAY	9755371	18.458940	-66.116417	0.000	0.00
LAS MAREAS	9755679	17.928300	-66.158300	0.021	0.07
SANTA ISABEL	9756639	17.955000	-66.406700	0.020	0.07
ARECIBO, PUERTO RICO	9757809	18.480528	-66.702361	0.014	0.05
PENUELAS, PUNTA GUAYANILLA, CARIBBEAN SEA	9758053	17.972528	-66.761778	0.007	0.02
MAGUEYES ISLAND, CARIBBEAN SEA	9759110	17.970080	-67.046417	0.000	0.00
PUERTO REAL	9759189	18.074806	-67.188778	0.020	0.06
BAHIA SALINAS	9759197	17.951444	-67.196583	0.014	0.05
MAYAGUEZ, PUERTO RICO	9759394	18.220000	-67.160000	0.008	0.03
AGUADILLA, CRASHBOAT BEACH	9759412	18.456640	-67.164583	0.008	0.03
PUNTA GUANAJABO, MAYAGUES	9759421	18.165000	-67.181700	0.025	0.08
MONA ISLAND	9759938	18.089917	-67.938500	0.016	0.05
BARBUDA	9761115	17.590694	-61.820556	0.009	0.03