

Alaska Tidal Datum Portal – Summary of December 2023 Changes and Updates

Summary of changes between November 2022 and December 2023:

- There are 11 new tidal datums, each with OPUS observations (table 1).
- There are no outdated stations since 2022.
- Of previously existing tidal datums without OPUS observations, 5 received their first OPUS observation (table 2).
- Of 279 tidal stations in Alaska, 184 have OPUS observations and 95 do not (table 3).
- Of the 184 with OPUS observations, 10 tidal stations are missing the benchmark sheets required to connect NAVD88 to tidal datums (table 3).
- There are 41 stations missing benchmark sheets (table 3).
- There are 46 stations with their NAVD88 conversion listed on NOAA CO-OPS (table 4). The conversion values were slightly different than those found in the Tidal Datum Portal. This is because the Portal uses a single benchmark observation to compute the conversion, but NOAA CO-OPS sometimes uses a statistic from multiple observations. We have updated the Tidal Datum Portal to default to the NOAA CO-OPS NAVD88 conversion values where available. The Reference Sheet still shows the single-observation conversions for individual benchmarks.

Table 1. Tidal stations added to NOAA CO-OPS since November 2022. All have OPUS observations.

ID	New tidal stations with NAVD88
9450831	HYDER, PORTLAND CANAL AK
9452534	BARTLETT COVE, GLACIER BAY AK
9454153	GRAVINA RIVER AK
9454672	COLLEGE FIORD AK
9455258	MCCARTY FIORD, MOONLIGHT BAY AK
9455983	KNIK RIVER AK
9456525	SW INISKIN BAY AK
9463885	ZAPADNI BAY, ST. GEORGE ISLAND AK
9465406	TOGIAK AK
9465438	GOODNEWS BAY AK
9490592	NORTH HOTHAM INLET AK

Table 2. Tidal stations accepted by NOAA CO-OPS that did not have OPUS observations in November 2022, and now have OPUS observations.

ID	Existing tidal stations that now have NAVD88
9454851	COCHRANE BAY, PR. WILLIAM SOUND
9455145	AIALIK BAY, NORTH END
9455159	CRATER BAY, HARRIS BAY
9455595	Bear Cove, Kachemak Bay
9455732	KALIGAN ISLAND (NORTH END), COOK INLET

Table 3. Tidal stations accepted by NOAA CO-OPS that do not have a benchmark sheet available online, do not have connections to OPUS observations, or do not have either. Both items are needed to connect tidal and orthometric datums.

ID	Tidal stations not connected to NAVD88	What is Needed
9451625	Baranof, Warm Spring Bay	Benchmark Sheet
9462941	Cape Chunak, AK	Benchmark Sheet
9490096	Cape Espenberg, Kotzebue Sound	Benchmark Sheet
9459758	Dolgoi Harbor, Dolgoi Island	Benchmark Sheet
9452328	False Bay, Chatham Strait	Benchmark Sheet
9469833	Goodhope Bay	Benchmark Sheet
9469460	Lopp Lagoon West	Benchmark Sheet
9455437	Port Graham	Benchmark Sheet
9451953	Target Island, Mitchell Bay	Benchmark Sheet
9454562	Wooded Island	Benchmark Sheet
9450906	BECK ISLAND, CLARENCE STRAIT	OPUS
9451287	Beecher Pass	OPUS
9450623	Big Salt Lake	OPUS
9459251	Bird Island, Shumagin Bank	OPUS
9465182	BLACK ROCK, WALRUS IS BRISTOL B	OPUS
9450973	Blashke Island	OPUS
9454381	BLIGH ISLAND, T-16	OPUS
9450305	BOCA DE QUADRA	OPUS
9455777	BOULDER POINT	OPUS
9451012	Bradfield Canal	OPUS
9450914	Burrough Bay, Behm Canal	OPUS
9454374	Busby Island	OPUS
9451074	BUSHY ISLAND, SNOW PASSAGE	OPUS
9451906	CANNERY WHARF, GAMBIER BAY	OPUS
9464961	CAPE CONSTANTINE, NUSHAGAK PENINSULA	OPUS
9455711	Cape Kasilof	OPUS
9458907	Castle Bay	OPUS
9458849	Chankliut Island	OPUS
9454777	CHENEGA ISLAND (S.W. END)	OPUS
9455735	CHINULNA POINT, COOK INLET	OPUS
9459949	Cold Bay	OPUS
9454460	Columbia Glacier	OPUS
9451376	Dorothy Cove	OPUS
9451421	Golf Island	OPUS
9451909	GOOD ISLAND, GAMBIER BAY	OPUS

9454691	HERRING POINT, KNIGHT ISLAND, PR WIL SND	OPUS
9452067	HOLKHAM BAY, STEPHENS PASSAGE	OPUS
9450544	Hollis Anchorage, Kasaan Bay	OPUS
9454951	KINGS BAY INSIDE, PRINCE WILLIAM SOUND	OPUS
9458819	KUJULIK BAY (NORTH SHORE)	OPUS
9450625	Lindeman Cove	OPUS
9454642	LOUIS BAY	OPUS
9454674	Macleod Harbor	OPUS
9451152	Madan Bay	OPUS
9454616	Montague Island	OPUS
9453443	Moraine Bay	OPUS
9451409	MOUNTAIN POINT	OPUS
9458779	NAKCHAMIK ISLAND, CHIGNIK BAY	OPUS
9465283	NE SIDE SUMMIT ISLAND, TOGIAK BAY A	OPUS
9456717	NUKSHAK ISLAND, SHELIKOF STRAIT	OPUS
9454561	Perch Point	OPUS
9454721	PERRY ISLAND (SOUTH BAY)	OPUS
9451005	POINT HARRINGTON, CLARENCE STRAIT	OPUS
9454671	POINT HELEN, KNIGHT ISLAND	OPUS
9454673	PORT AUDREY	OPUS
9454511	Port Chalmers	OPUS
9451936	Provorotni Island	OPUS
9451124	REEF POINT, STIKINE STRAIT	OPUS
9451497	Saginaw Bay, Kuiu Island	OPUS
9450495	Saltery Cove	OPUS
9451805	Scraggy Island	OPUS
9454564	SEAL ISLAND	OPUS
9451853	Sergius Narrows	OPUS
9450618	Shinaku Inlet	OPUS
9454662	Snug Harbor	OPUS
9454652	SOUTH ARM, KNIGHT ISLAND, BAY OF ISLES	OPUS
9452434	TAIYASANKA HARBOR	OPUS
9452123	TAKU HARBOR	OPUS
9451785	THE BROTHERS, STEPHENS PASSAGE	OPUS
9450970	Thoms Point	OPUS
9450938	Thorne Island	OPUS
9458762	UNAVIKSHAK ISLAND	OPUS
9451037	Village Rock	OPUS
9452249	YOUNG BAY	OPUS

9460150	ATTU, MASSACRE BAY	OPUS and Benchmark Sheet
9454755	Bainbridge Point	OPUS and Benchmark Sheet
9452318	Barlow Cove	OPUS and Benchmark Sheet
9465988	Cape Corwin GPS Tide Buoy AK	OPUS and Benchmark Sheet
9454329	Cape Hichinbrook	OPUS and Benchmark Sheet
9462787	Cape Sarichef, Unimak Island	OPUS and Benchmark Sheet
9450286	Dunbar Inlet GPS Tide Buoy	OPUS and Benchmark Sheet
9451438	Entrance Island	OPUS and Benchmark Sheet
9457726	Geese Island GPS Tide Buoy	OPUS and Benchmark Sheet
9454751	Guguak	OPUS and Benchmark Sheet
9452294	Hawk Inlet	OPUS and Benchmark Sheet
9458964	Hump Island, Kuiu Island	OPUS and Benchmark Sheet
9469626	Ikpek Lagoon	OPUS and Benchmark Sheet
9491247	Kivalina Lagoon	OPUS and Benchmark Sheet
9450913	Kuiu Island, Affleck Canal	OPUS and Benchmark Sheet
9469982	Lagoon at 165 West	OPUS and Benchmark Sheet
9454713	Latouche	OPUS and Benchmark Sheet
9451422	LECONTE BAY	OPUS and Benchmark Sheet
9469338	LOST RIVER, SEWARD PENINSULA	OPUS and Benchmark Sheet
9450642	Northern Carroll Inlet GPS Tide Buoy	OPUS and Benchmark Sheet
9450711	Nossuk Bay	OPUS and Benchmark Sheet
9469515	Outside Lopp Lagoon	OPUS and Benchmark Sheet
9454814	Point Erlington, Erlington Island	OPUS and Benchmark Sheet
9458209	Puale Bay	OPUS and Benchmark Sheet
9451467	Red Bluff Bay, Baranof Island	OPUS and Benchmark Sheet
9451454	Security Bay GPS Buoy	OPUS and Benchmark Sheet
9469804	Shishmaref Inlet Inside	OPUS and Benchmark Sheet
9457512	Sitkalidak Island GPS Tide Buoy	OPUS and Benchmark Sheet
9450578	Steamboat Bay	OPUS and Benchmark Sheet
9452368	SWANSON HARBOR	OPUS and Benchmark Sheet
9459465	ZACHARY BAY, UNGA IS (N. SIDE)	OPUS and Benchmark Sheet

Table 4. Tidal Stations with NAVD88 listed on NOAA CO-OPS.

ID	Station Name
9461380	Adak Island
9467645	ALAKANUK, YUKON RIVER AK
9455920	Anchorage
9461710	Atka
9452534	BARTLETT COVE, GLACIER BAY AK

9466084	CHEFORNAK, KINIA RIVER AK
9455558	COAL POINT
9454672	COLLEGE FIORD AK
9464512	DAGO CREEK MOUTH, UGASHIK BAY AK
9464874	EGEGIK, EGEGIK R, BRISTOL BAY AK
9468863	ELIM, NORTON BAY AK
9465438	GOODNEWS BAY AK
9454153	GRAVINA RIVER AK
9450831	HYDER, PORTLAND CANAL AK
9493291	KASEGALUK LAGOON AK
9468261	Kavalghak Bay, AK AK
9459881	King Cove
9465951	KIPNUK, KUGUKLIK RIVER AK
9455983	KNIK RIVER AK
9457292	Kodiak Island
9467861	KOTLIK, KOTLIK RIVER, AK AK
9469031	Koyuk
9467124	Kun River AK
9465911	Kwigillinok AK
9465419	LEVELOCK, KVICHAK RIVER AK
9455258	MCCARTY FIORD, MOONLIGHT BAY AK
9465203	Naknek AK
9466563	NEWTOK, NINGLIQ RIVER AK
9455760	Nikiski
9462450	Nikolski
9455653	Ninilchik, Cook Inlet AK
9468756	Nome, Norton Sound
9490592	NORTH HOTHAM INLET AK
9451054	Port Alexander
9455437	Port Graham
9468151	STEBBINS, NORTON SOUND, EAST AK
9456525	SW INISKIN BAY AK
9465406	TOGIAK AK
9466197	TUNTUTULIAK, QINAQ RIVER AK
9468333	Unalakleet
9462620	Unalaska
9464212	Village Cove, St Paul Island
9494212	WAINWRIGHT, CHUKCHI SEA AK
9454949	Whittier
9453220	Yakutat, Yakutat Bay
9463885	ZAPADNI BAY, ST. GEORGE ISLAND AK

