

Rate Mileages

Abbreviations

AFB - Air Force Base
 AFS - Air Force Station
 tsa - Tariff same as
 USCG - U.S. Coast Guard

Below is a list of V&H Coordinates computed for each rate center from its latitude and longitude location by use of appropriate map projection equations. A pair of V&H coordinates locates a rate center for determining air mileage between service points.

Determination of Airline Mileages

To determine the rate distance between any two rate centers proceed as follows:

- (A) Obtain the "V" and "H" coordinates for each rate center
- (B) Obtain the difference between the "V" coordinates of the two rate centers. Obtain the difference between the "H" coordinates.
- (C) Square each difference obtained in (B) above.
- (D) Add the squares of the "V" difference and the "H" difference obtained in (C) above.
- (E) Divide the sum of the squares obtained in (D) above by 10. Round to the next higher whole number if any fraction is obtained.
- (F) Obtain the square root of the result obtained in (E) above. This is the rate distance in miles. (Fractional miles being considered as whole miles.)

Example:

The rate distance is required between Anchorage and Bethel.

	<u>V</u>	<u>H</u>		
Anchorage	2018	2828		
Bethel	<u>2038</u>	<u>4105</u>		
difference	20	1277		
squared	400	+ 1,630,729	=	1,631.129

$$1,631,129 \div 10 = 163,112.9$$

$$\sqrt{163,113} = 403.9 = 404 \text{ airline miles}$$

<u>Location</u>	<u>V</u>	<u>H</u>
Adak	0736	6413
Adak AFS	0736	6413
Akhiok	1098	3343
Akiachak	2027	4052
Akiak	2054	4029
Akolmuit	2070	4167
Akulik	3825	3891
Akutan	0722	4873
Alakanuk	2504	4298
Alegnagik tsa Dillingham		
Alitak same as Akhiok		
Allakaket	3188	3071
Alyeska tsa Girdwood		
Ambler	3338	3510
Anaktuvuk Pass	3528	2984
Anchor Point tsa Homer		
Anchorage	2018	2828
Anderson tsa Clear		
Andreafsky same as Saint Mary's		
Angoon	1424	1035

<u>Location</u>	<u>V</u>	<u>H</u>
Aniak	2169	3832
Annette	1012	0541
Anvik	2411	3861
Anvil Mountain	2920	4269
Arctic Circle Hot Springs tsa Central		
Arctic Village	3539	2478
Atigun	3530	2792
Atigun Camp	3534	2796
Atka	0668	6071
Atkasuk	4068	3382
Atmautluak	2063	4142
Attu tsa Shemya		
ATTU	1566	7505
Auke Bay tsa Juneau		
Aurora Repeater	2295	2346
Aurora Lodge same as Salchaket		
Baldwin same as Buckland		
Barrow	4241	3319
Barrow AFS	4241	3319
Barter Island	3986	2368
Barlett Cove tsa Gustavus		
Bay Vew same as Craig		
Beaver	3143	2613
Beaver Creek	2470	2034
Becharof same as Egigik		
Belkofski	0821	4358
Bench Repeater	3063	2824
Bethel	2038	4105
Bettles	3255	2975
Big Lake	2088	2828
Big Mountain	1640	3425
Biorka	1259	1111
Birch Creek Village tsa Fort Yukon		
Bird Creek	1958	2782
Black Rapids	2526	2436
Border City tsa Tok		
Boswell Bay WACS	1852	2425
Brevig Mission tsa Nome		
Broad Pass tsa Talkeetna		
Buck	2715	2501
Buckland	3142	3825
Campion AFS	2784	3469
Cantwell	2491	2738
Cape Lisburne AFS	3849	4103
Cape Newenham same as Newenham AFS		
Cape Pole	1122	0860
Cape Romanzof AFS same as Romanzof AFS		
Cape Spencer	1518	1304
Cape Yakataga	1816	2022
Caswell tsa Anchorage		
Cathedral Bluffs	2518	2234
Central	2985	2373
Chalkyitsik	3230	2298
Chandalar	3514	2807
Chatnika tsa Fairbanks		
Chefornak	1969	4374
Chevak	2281	4451
Chickaloon tsa Palmer		
Chignik	1007	3868
Chignik Lagoon	1015	3892
Chignik Lake	1005	3914
Chistochina tsa Glennallen		
Chitina	2106	2261
Chuathbaluk	2162	3801

<u>Location</u>	<u>V</u>	<u>H</u>
Chugiak tsa Eagle River		
Circle	3047	2310
Clam Gulch tsa Ninilchik		
Clarks Point tsa Dillingham		
Clear	2689	2755
Cleary Summit	2857	2606
Clover Pass tsa Ketchikan		
Cohoe tsa Kenai		
Cold Bay	0873	4442
Cold Bay AFS	0873	4442
Coldfoot	3339	2863
Coldfoot Camp	3334	2856
Cooper Landing	1856	2823
Copper Center tsa Glennallen		
Cordova	1883	2384
Cordova- Mile 13	1875	2354
Costa Hill	3741	2758
Council	2954	4098
Craig	1040	0754
Crooked Creek	2211	3674
Curry tsa Talkeetna		
Daly tsa Dillingham		
Deadhorse	3978	2727
Deering	3189	3981
Delta Junction	2645	2433
Diamond Ridge tsa Homer		
Diamond Ridge	1681	3021
Dillingham	1569	3805
Diomedede	3259	4515
Donnelly Dome	2589	2442
Dot Lake	2576	2266
Douglas tsa Juneau		
Driftwood Bay	0725	5024
Duncan Canal	1308	0830
Dutch Harbor tsa Unalaska		
Eagle River	2033	2806
Eagle River ES	2033	2783
Eagle Village	2581	2016
Eek tsa Bethel		
Egegik tsa King Salmon		
Eielson AFB	2771	2569
Eielson AFB BLDG 1183	2775	2569
Eielson AFB RTB 512	2795	2549
Eklutna tsa Palmer		
Ekuk tsa Dillingham		
Ekwok	1656	3676
Elfin Cove tsa Gustavus		
Elim	2868	3982
Elmendorf AFB	2021	2821
Emmonak	2521	4281
English Bay tsa Homer		
Eska tsa Palmer		
Ester tsa Fairbanks		
Eureka Lodge tsa Glennallen		
Excursion Inlet	1595	1180
Fairbanks	2810	2628
Fairbanks Creek tsa Fairbanks		
False Pass	0805	4540
Farewell	2316	3233
Ferry tsa Healy		
Fish	3175	2878
Fish Creek tsa Fairbanks		
Fort Greely	2633	2433
Fort Richardson	2025	2804

<u>Location</u>	<u>V</u>	<u>H</u>
Fort Wainwright	2810	2618
Fort Yukon	3199	2427
Fort Yukon AFS	3199	2427
Fortuna Ledge tsa Marshall		
Forty Mile tsa Tok		
Fox tsa Fairbanks		
Gakona tsa Glennallen		
Galbraith	3607	2815
Galbraith Camp	3597	2799
Galena	2822	3485
Galena AFS	2822	3485
Gambell	2932	4900
George Lake tsa Delta Junction		
Gerstle River	2597	2360
Gilmore Creek ES	2840	2612
Girdwood	1955	2753
Glacier Bay tsa Gustavus		
Glennallen	2226	2384
Gold Creek tsa Talkeetna		
Golovin	2848	3964
Goodfellow Camp	1866	2312
Goodnews Bay	1675	4140
Graehl tsa Fairbanks		
Grayling	2462	3839
Gulkana tsa Glennallen		
Gustavus	1589	1209
Haines	1764	1219
Happy Valley	3749	2751
Harding Lake	2718	2554
Healy	2588	2743
Healy Fork same as Healy		
High Mountain Crossing	0967	0404
Hog River same as Hogatza		
Holy Cross	2306	3833
Homer	1675	3013
Honolulu tsa Talkeetna		
Hoonah	1534	1164
Hooper Bay	2295	4502
Hope	1950	2803
Houston tsa Big Lake		
Hughes	3083	3219
Hunter tsa Seward		
Hurrican (Gulch) tsa Anchorage		
Huslia	3023	3416
Hydaburg	0994	0698
Igiugig	1632	3500
Igiugik same as Igiugig		
Iliamna	1718	3373
Indian-Bird same as Bird Creek		
Indian Mountain AFS	3084	3167
Ivanoff Bay	0942	4013
Johnstone Point	1864	2474
Juneau	1598	1058
Juneau Mile 11	1607	1084
Kaaruk	3424	2826
Kachemak tsa Homer		
Kake	1331	0933
Kakhonak same as Kokhanok		
Kaktovik	3986	2366
Kalakaket Creek AFS	2751	3485
Kalska tsa Aniak		
Kaltag	2751	3664
Karluk (Village)	1236	3368
Kasaan	1078	0667

<u>Location</u>	<u>V</u>	<u>H</u>
Kasigluk tsa Bethel		
Kasilof tsa Kenai		
Kenai	1874	2976
Ketchikan	1065	0569
Keystone	1996	2399
Kiana	3345	3730
Kimball Pass	2099	2324
King Cove	0822	4396
King Island same as Ukivok		
King Salmon	1506	3601
King Salmon AFS	1506	3601
Kipnuk	1905	4372
Kivalina	3575	4036
Klawock	1058	0752
Klukwan tsa Haines		
Knik tsa Wasilla		
Knob Ridge	2573	2266
Knutson Cove tsa Ketchikan		
Kobe same as Rex		
Kobuk	3290	3430
Kodiak	1271	3123
Kokhanok Bay tsa Iliamna		
Koliganek	1735	3645
Kongiganak	1884	4247
Kotlik	2555	4174
Kotzebue	3355	3915
Kotzebue AFS	3355	3915
Koyuk	2917	3868
Koyukuk	2858	3554
Kwethluk	2035	4054
Kwigillingok	1869	4277
LaBouchare Bay same as Kake		
Lake Minchumina same as Minchumina		
Larsen Bay	1226	3312
Lena Point	1607	1101
Lena Point tsa Juneau		
Level Island	1251	0803
Levelock tsa King Salmon		
Lignite tsa Anchorage		
Lime Village	2036	3410
Lisburne same as Cape Lisburne AFS		
Little Diomed same as Diomed		
Livengood	2971	2704
Lower Kalskag tsa Aniak		
Manley Hot Springs	2842	2900
Manokotak tsa Dillingham		
Margaret Hill	3500	2825
Marshall	2278	4080
McCallum	2471	2413
McGrath	2419	3399
McKinley Park tsa Healy		
Meakerville tsa Cordova		
Mekoryuk	2057	4574
Mendeltna Lodge tsa Glennallen		
Mentasta (Lake) tsa Tok		
Meshik	1145	3884
Metlakatla same as Annette		
Meyers Chuck	1125	0662
Minchumina	2601	3063
Minto	2876	2780
Montana (Creek) tsa Talkeetna		
Moose Pass	1855	2773
Moses Point	2881	3959
Mt. Edgecumbe tsa Sitka		

<u>Location</u>	<u>V</u>	<u>H</u>
Mountain Village	2357	4235
Mud Bay	1320	1139
Mud Bay same as Ward Cove		
Mukluk Drilling Island	4083	2908
Murphy Dome AFS	2811	2688
Naknek tsa King Salmon		
Napakiak	2021	4115
Napaskiak tsa Bethel		
Naptowne tsa Soldotna		
Neklasson Lake AFS	2104	2764
Nelson Island same as Tununak		
Nelson Lagoon	0997	4219
Nenana	2736	2757
New Stuyahok	1676	3654
Newenham AFS	1585	4209
Newhalen tsa Iliamna		
Newtok	2132	4384
Nichilik	4020	2913
Nightmute	2038	4417
Nikishka	1907	2987
Nikishka tsa North Kenai		
Nikolaevsk tsa Homer		
Nikolai tsa McGrath		
Nikolski	0580	5335
Ninilchik	1762	3024
Noatak	3513	3916
Nome	2907	4276
Nondalton tsa Anchorage		
Noorvik	3325	3785
North Kenai	1908	2988
North Pole	2789	2586
North Slope same as Deadhorse		
Northway	2461	2030
Norton Sound	2710	4203
Nuiqsut	3982	2915
Nulato	2829	3595
Nunapitchuk	2074	4159
Old Harbor	1148	3235
Oscarville tsa Bethel		
Ouzinkie	1300	3133
Palmer	2096	2751
Paxson	2413	2381
Paxson tsa Glennallen		
Pedro Bay	1716	3295
Pedro Dome AFS	2853	2611
Pelican	1478	1249
Peninsula Point tsa Ketchikan		
Pennock Island tsa Ketchikan		
Perryville	0938	3971
Petersburg	1327	0809
Pilot Point	1270	3734
Pilot Station	2292	4160
Pitkas Point tsa St. Mary's		
Platinum	1657	4169
Pleasant Camp tsa Haines		
Point Baker	1210	0860
Point Barrow same as Barrow		
Point Higgins same as Port Higgins		
Point Hope Village	3752	4184
Point Lay	3978	3822
Point Lay Dew	3980	3817
Point Lay tsa Barrow		
Port Alexander	1156	0976
Port Alsworth	1809	3311

<u>Location</u>	<u>V</u>	<u>H</u>
Port Chatham same as Portlock		
Port Chilkoot tsa Haines		
Port Clarence USCG tsa Teller		
Port Clarence	3099	4367
Port Graham	1609	3046
Port Heiden	1147	3884
Port Higgins tsa Ketchikan		
Port Lions	1290	3177
Port Moller	0977	4134
Port Protection	1203	0857
Port Wakefield same as Port Lions		
Portage tsa Girdwood		
Portage	1928	2727
Portage Creek tsa Dillingham		
Prospect Camp	3234	2904
Prudhoe Bay same as Deadhorse		
Ptarmigan	2028	2380
Pump Station #1	3991	2739
Pump Station #2	3816	2730
Pump Station #3	3682	2749
Pump Station #4	3590	2790
Pump Station #5	3238	2899
Pump Station #6	3028	2818
Pump Station #7	2911	2684
Pump Station #8	2749	2543
Pump Station #9	2621	2435
Pump Station #10	2511	2428
Pump Station #11	2221	2379
Pump Station #12	2090	2334
Put River same as Deadhorse		
Quartz Hill	1124	0427
Quinhagak	1817	4150
Rampart	2951	2857
Ratz Mountain	1126	0717
Red Devil	2182	3598
Ridgeway tsa Kenai		
Riverside tsa Fairbanks		
Romanzof AFS	2346	4473
Ruby	2807	3353
Russian Mission	2243	4006
Saint George	1369	5176
Saint Mary's Airport	2341	4194
Saint Mary's	2336	4181
Saint Michael	2620	4009
Saint Paul	1505	5224
Sand Point	0842	4156
Sarichef same as Cape Sarichef AFS		
Savoonga	2875	4790
Sawmill	2146	2668
Saxman tsa Ketchikan		
Scammon Bay	2348	4433
Scottie Creek tsa Northway		
Scow Bay same as Petersburg		
Selawik	3259	3706
Seldovia	1628	3033
Service City same as Deadhorse		
Seward	1775	2781
Shageluk	2401	3794
Shaktolik	2793	3894
Shaw Creek tsa Delta Junction		
Sheep Creek Camp	2005	2400
Sheep Creek Mine tsa Fairbanks		
Sheep Mountain	2144	2600
Sheldon Point	2477	4325

<u>Location</u>	<u>V</u>	<u>H</u>
Shemya AFS	1480	7414
Shishmaref	3293	4241
Shungnak	3289	3452
Silver Fox Roadhouse tsa Fairbanks		
Sinona tsa Glennallen		
Sisters Island	1549	1147
Sitka	1306	1101
Skagway	1818	1219
Slana tsa Tok		
Slaterville tsa Fairbanks		
Sleetmute	2163	3583
Slope	3659	2767
Smuggler Cove	1011	0540
Soldotna	1866	2958
South Naknek tsa King Salmon		
Sparrevohn AFS	2017	3434
Spenard same as Anchorage		
Squaw Harbor tsa Sand Point		
Stebbins	2633	4031
Sterling tsa Soldotna		
Stevens Village	3062	2761
Stony River	2174	3521
Stuck	2158	2350
Summit Lake Lodge tsa Glennallen		
Sunshine tsa Talkeetna		
Suntrana tsa Healy		
Sutton tsa Palmer		
Tahneta Pass	2155	2565
Takotna tsa McGrath		
Talkeetna	2259	2850
Tanana	2883	3035
Tanunak	2080	4465
Tatalina AFS	2418	3439
Tatitlek	1950	2488
Tazlina tsa Glennallen		
Telida	2496	3162
Teller	3091	4321
Teller Mission same as Brevig Mission		
Tenakee	1466	1123
Tern Lake	1865	2791
Tetlin tsa Tok		
Tetlin Junctions same as Forty Mile		
Thane tsa Juneau		
Thethis Island	4055	2855
Throne Bay	1105	0691
Tigara same as Point Hope		
Tin City AFS	3197	4440
Togiak	1639	4007
Tok	2517	2155
Tokotna same as Takotna		
Toksook Bay	2047	4467
Tolsona	2220	2449
Tonsina	2098	2343
Toolik Camp	3637	2808
Trapper Creek tsa Talkeetna		
Tsina	2026	2373
Tuklung Mt.	1579	3912
Tuluksak tsa Bethel		
Tuntutuliak	1960	4205
Tununak same as Tanunak		
Twin Hills	1641	3996
Tyonek	1984	2962
Umiat	3719	2998
Unalakleet	2683	3848

<u>Location</u>	<u>V</u>	<u>H</u>
Unalaska	0693	4984
Usibelli tsa Healy		
Valdez	2007	2454
Valdez Pipeline Terminal	1996	2459
Venetie	3290	2536
Wacker same as Ward Cove		
Wainwright	4130	3568
Wainwright Dew	4122	3557
Wales	3208	4451
Ward Cove tsa Ketchikan		
Wasilla	2095	2782
West Petersburg tsa Petersburg		
White Mountain	2904	4084
Whittier	1918	2704
Willow	2131	2847
Windy tsa Fairbanks		
Windy Point	1953	2795
Wolk	1610	3224
Wrangell	1274	0722
Yakutat	1743	1706
Yukon-Alaska Border Customs tsa Northway		