

PROPERTY OF DGGG LIBRARY

UNITED STATES GEOLOGICAL SURVEY

J. W. POWELL, DIRECTOR

LISTS AND ANALYSES

OF THE

MINERAL SPRINGS

OF THE

UNITED STATES

[A PRELIMINARY STUDY]

BY

ALBERT C. PEALE, M. D.



WASHINGTON
GOVERNMENT PRINTING OFFICE
1886

ALASKA.

According to Dr. William H. Dall (from whose *Alaska and Its Resources* the list given here is mainly compiled), the hot and mineral springs of Alaska are both numerous and important. Besides the hot springs there are many which do not freeze even during the most severe winter weather, and which, therefore, are properly included under the

head of thermal springs. Hot springs are most numerous on the list, which may be due partly to the fact that such springs naturally attract most attention, especially in a new country. Chalybeate, sulphureted, and saline springs are also found. The springs enumerated by Dall are supplemented in the table by several others, two of which are taken from a book by Frederick Whymper, one from the Pacific Coast Pilot for 1869, and two from Walton's Mineral Springs, in which they are reported by Dr. H. J. Phillips, of the United States Army. Several localities have been added by Sheldon Jackson. So far as learned, none of the waters of the Alaskan mineral springs has ever been analyzed.

Mineral springs of Alaska.

| Name and location. | Temperature, Fahr. | Character of the water. | Remarks. |
|---|--------------------|-------------------------|--|
| Boiling springs on northwest side of Adak Island .. | 0 | Saline? | Used by Aleuts from time immemorial for cooking purposes. |
| Boiling springs on Kanaga Island .. | | | |
| Boiling mud springs on Koni volcano, Atka Island .. | | Sulphureted .. | Was used as the site of hospital by the Russians, and the springs were used extensively. |
| Chalybeate spring, $\frac{1}{2}$ mile from Sitka, Baranoff Island .. | | | |
| Chalybeate spring on west bank of Chilkot River, on the mainland .. | | | |
| Geysers, or warm sulphur springs, Sitka Sound, 15 or 20 miles from Baranoff Island .. | 152 $\frac{1}{2}$ | Saline and sulphureted. | |
| Hot springs, 5 miles from Korovin Bay, Aka Island .. | 167 | Saline? | |
| Hot springs between Korovin and Kluchoff volcanoes, Atka Island .. | | | |
| Hot springs on Adak Island .. | | | |
| Hot springs in Parenosa Bay, on south coast of Alaska Peninsula .. | | | |
| Hot springs in Port Moller, north side of Alaska Peninsula .. | | | |
| Hot spring in crater of Gardeol, Gwaiok Island .. | | | |
| Hot springs on Atangot Island, near Alaska Peninsula .. | | | |
| Hot Springs on a small island southeast of Akutan .. | | | Used by Aleuts for bathing. |
| Hot Springs on Chichagoff Island, east of Sitkoh passage .. | | | |
| Hot marshes near Pogrumoi volcano, Unalusk Island .. | | | |
| Hot springs on Stikine River, 25 miles above its mouth .. | | | |
| Hot springs on Sitignak Island .. | | | |
| Hot springs on Segouam Island .. | | | |
| Hot springs opposite Huluk or Captain's Harbor, on Unalaska Island .. | 94 | Sulphureted .. | |
| Hot springs near Makushin Mountain, Unalaska Island .. | | | |
| Hot Springs near Deep Bay, Unimak Island .. | 212 | | Used for bathing by the Aleuts. |
| Intermittent boiling springs, in a small valley of Unimak Island .. | | | |
| Saline lake on Beaver Island in the Pribyloff Group .. | | | |
| Sulphur lake on Unimak Island .. | | | |
| Warm springs on Unalaklik River, near Unukuk .. | 34 | Saline? | The temperature of the air was -8° Fahr. |
| Warm springs between Versola Sofka and Youkon River .. | | | |

*This is the temperature given in the Coast Pilot. Dall gives a temperature of 122° F., and Dr. Phillips, in Walton's book, gives 96° F. to 104° F.