a micrometer survey of the three lakes. By the 29th, the lake were all frozen over; with the exception of the narrows, where there was a considerable current, hence did not freeze over at all during the winter.

There was about two feet of snow at timber line—2,000 feet above the lake; but very little on the valley bottom, as the snow generally turned to rain at this level. The heaviest rain we had occurred on the night of the 28th, when the water came through the roof of our cabin in liberal quantities

During this month I arranged my notes of the previous summer; developed several rolls of films; made a micrometer and compass survey of the lakes, and took a number of soundings for depth of water, through holes made in the ice, the ice being about six inches thick at the end of the month.

The lowest temperature recorded during October was 9 deg. below zero, and the highest 47 deg. F.

The weather continued mild during November, and although there was an absence of rain, the heavy precipitation still continued in the form of snow. A band of timber wolves, numbering about thirteen, began to operate up and down the valley, when the winter set in. They visited us about every two weeks on their rounds; but only approached the cabin at night, when it was too dark to shoot them. Their howling, added to that of our dogs, who were careful to keep close to the cabin on these occasions, annoved us considerably.

I had a disagreeable experience on and lake one afternoon during the month. This body of water is somewhat square in outline, and to cross from the narrows to the outlet, — which is concealed by a small wooded island—the shortest course is a diagonal one. When less than 200 yards from this island, a large, dark colored wolf trotted into view, and was presently followed by others, until the whole wolf pack was assembled.

I immediately turned in my tracks, being careful not to go too fast, or appear alarmed—which I decidedly was—lest they should follow. I had no weapon of any description, the distance to the nearest timber on the shore was about half a mile, the snow was soft and my snowshoes felt dreadfully heavy and awkward just then. Some of the wolves circled round the island, to see if there was a moose on it, while the others kept going up the main shore, and much to my relief did not show any immediate intention of following me.

The distance to the cabin was about a mile and a half, which I finally reached, and taking a rifle and a box of cartridges, returned to the lake. The darkness was gathering by this time, and I thought the wolves would follow my trail—to their undoing—but I could see nothing of them.

As I watched, a howl came from the distance, and then an answering howl. Soon the thin wintry air was filled with the vibrations of that fear-com-

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