

tion, to take a copy of them along with me. Hansen was occupied in preparing tabular forms necessary for our observations, curves of the movement of our chronometers, and other such things. Besides this, he was to make a complete chart of our voyage and drifting up to the present time.

I could not, however, make too great a claim on his valuable time as it was necessary that he should continue his scientific observations without interruption. During this autumn he had greatly increased the comfort of his work, by building, along with Johansen, an observation-hut of snow, not unlike an Eskimo cabin. He found himself very much at his ease in it, with a petroleum lamp hanging from the roof, the light of which, being reflected by the white snow walls, made quite a brilliant show. Here he could manipulate his instruments quietly and comfortably, undisturbed by the biting wind outside. He thought it quite warm there, too, when he could get the temperature up to something like  $20^{\circ}$  below freezing-point, so that he was able without much inconvenience to adjust his instruments with bare hands. Here he worked away indefatigably at his observations day after day, watching the often mysterious movements of the magnetic needle, which would sometimes give him no end of trouble. One day—it was November 24th—he came in to supper a little after 6 o'clock, quite alarmed, and said, "There has just been a singular inclination of the needle to  $24^{\circ}$ , and, remarkably enough, its northern extremity pointed to the east. I cannot remember ever having heard of such an inclination." He also had several others of about  $15^{\circ}$ . At the same time, through the opening into his observatory, he noticed that it was unusually light out of doors, and that not only the ship but the ice in the distance was as plainly visible as if it had been full moonlight. No aurora, however, could be discerned through the thick clouds that covered the sky. It would appear, then, that this unusual inclination was in some way connected with the northern lights, though it was to the east