

the deviation and variation of the compass, this being the first opportunity experienced of doing so since leaving the Cape of Good Hope. Having completed swinging at 7 P.M. the vessel proceeded under easy steam to the eastward. At 10 P.M. a fine aurora lit up the surrounding icebergs. During the afternoon serial temperatures were obtained at every 10 fathoms to 50 fathoms, which showed a gradual decrease from 32° at the surface to $29^{\circ}\cdot3$ at 40 fathoms. The barometer was steady at about 28·810 inches, temperature of the air $29^{\circ}\cdot8$, temperature of sea surface $32^{\circ}\cdot4$; position at noon, lat. $63^{\circ} 30' S.$, long. $88^{\circ} 57' E.$

On the 22nd, the weather continuing calm all the forenoon, and steam being up, the ship was swung to ascertain the errors of the dipping needle, which took until 2 P.M., when a westerly breeze having sprung up all sail was made towards Termination Land. Numerous icebergs were in sight all day, thirty-two being counted at 4 P.M., but no pack ice was seen. Several of the bergs passed had perpendicular fractures extending

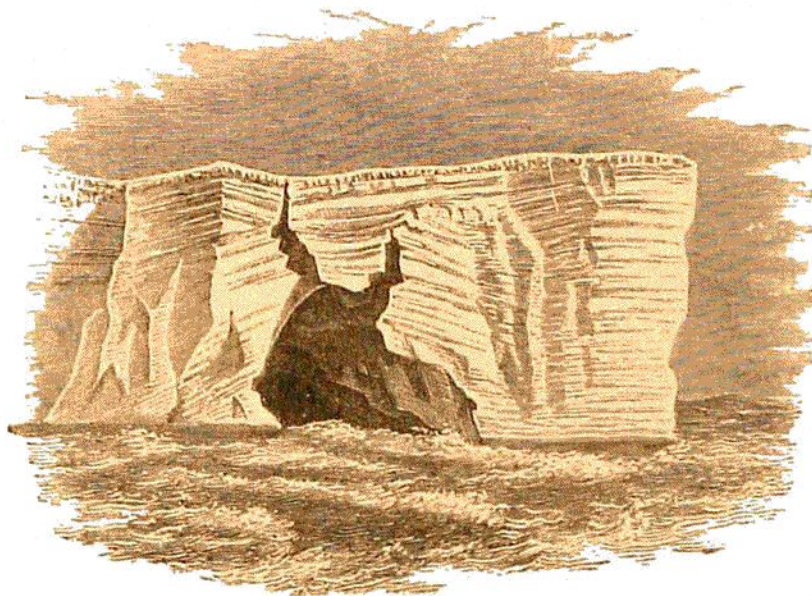


FIG. 153.—Iceberg seen 23rd February 1874.

from the summit some way down their sides. The weather during the day was fine with a light wind and smooth sea, cloudy in the forenoon, but bright and sunny in the afternoon, the barometer rising slowly and steadily from 28·796 to 29·096 inches. Mean temperature of air $31^{\circ}\cdot4$, of sea surface $32^{\circ}\cdot8$. On the 21st and 22nd there was a heavy bank of clouds to the northward; the view on the latter date was uninterrupted from east round south to west, but was limited to about 8 or 9 miles in the northern part of the horizon. The position at noon was lat. $63^{\circ} 30' S.$, long. $91^{\circ} 11' E.$

On the 23rd the ship hove to just after midnight until 2 A.M., the horizon ahead being darkened by a heavy bank of clouds. At daylight the weather cleared, and the day was remarkably fine with smooth water and a clear atmosphere. The wind falling light at noon steam was got up and the vessel proceeded towards Termination Land,