

stant gales they had experienced since leaving Cape Horn. Several birds were shot this day, including an albatross and many penguins. Petrels and Cape pigeons were seen. They now began to fall in with icebergs in numbers. The temperature of the water and air had fallen to 33° and 32°.

On the 15th and 16th they had very many icebergs as their companions, mostly of fantastic shapes, much worn and broken,—disagreeable weather, with snow-squalls passing over. A continued twilight in the horizon and slight appearances of the aurora were seen, but no rays.

They encountered during the 17th and part of the 18th, the heaviest gale and sea they had experienced since leaving the United States. The thermometer in the air stood at 21° of Fahrenheit, and in the water at 28°. The ship was completely coated with ice, even to the gun-deck. Every spray thrown over her froze, and her bows and deck were fairly packed with it. The crew suffered much from the gun-deck being constantly wet, and it being now covered with ice, caused the ship to be damp throughout.

On the 18th the gale continued, with a heavy sea, the winds now prevailing more from the south and south-southeast. There were many birds about the ship; among them a sheath-bill, which Mr. Peale made every exertion to take, but without success. A blue petrel was, however, caught. Several icebergs were in sight, and at night they had a beautiful display of the aurora australis, extending from south-southwest to east. The rays were of many colours, radiating towards the zenith, and reaching an altitude of 30°. Several brilliant meteors were also observed.

Hot coffee was now served to the crew at midnight, or at relieving of the watch, which proved exceedingly acceptable. The temperature of the air had fallen to 22°, and of the water to 28°.

On the 19th they had another display of the aurora, and it exhibited a peculiar effect. In the southern quarter there was an appearance of a dense cloud, resembling a shadow cast upon the sky, and forming an arch about 10° in altitude. Above this were seen coruscations of light, rendering all objects around the ship visible. From behind this cloud diverging rays frequently shot up to an altitude of from 25° to 45°. These appearances continued until day dawned. The night was remarkably fine, and many shooting stars were observed. The barometer stood at 29.77 in. During the afternoon of this day a fog-bank was perceived in the southwestern