

= Mount Jackson (Antarctica) =

Mount Jackson (Mount Andrew Jackson and Mount Ernest Gruening) is a mountain that dominates the upland of the southern part of the Antarctic Peninsula . It is located in Palmer Land , within the Antarctic claims of Argentina , Chile and the United Kingdom . With an elevation of 3 @, @ 184 metres (10 @, @ 446 ft) , Mount Jackson is the highest mountain in the Antarctic Peninsula and the British Antarctic Territory . Discovered by members of the United States Antarctic Service , 1939 ? 41 , it was named for Andrew Jackson , the seventh President of the United States . The first ascent of Mount Jackson was made by a team led by John Crabbe Cunningham of the British Antarctic Survey (BAS) in 1964 . Mount Jackson 's geology was studied in 1972 as part of the Palmer Island investigations by a team of geologists .

Mount Jackson and the Welch Mountains demarcate the central Black Coast , which is dissected by many inlets and is bounded on the west by Dyer Plateau of central Palmer Land . The two mountains rise above the ice shelf with reliefs of about 1 @, @ 200 ? 1 @, @ 500 metres (3 @, @ 900 ? 4 @, @ 900 ft) towards the east . They are interconnected by icefall zones forming a plateau with steep snow slopes . Mount Jackson rises from its southeast flanks , displaying a steeple summit , while the north flank is occupied by a vast cirque . Supraglacial moraines on the mountain 's east side measure between 1 ? 5 kilometres (0 @. @ 62 ? 3 @. @ 11 mi) in length and display boulders at their distal ends .

= = History = =

The first topographic mapping of Mount Jackson was carried out in November 1940 by a sledge party of the United States Antarctic Service (USAS) . The ground survey was facilitated by aerial photographs and aerial observations . The height was estimated at 4 @, @ 200 metres (13 @, @ 800 ft) , and the mountain was named Mount Ernest Gruening after the Governor of the Alaska Territory at that time , Ernest Gruening . USAS later renamed it Mount Jackson for the seventh President of the United States . President Jackson signed the bill into law authorizing the United States Exploring Expedition of 1838 ? 42 . The expedition , led by Lt. Charles Wilkes , included exploration and surveying of the Pacific Ocean and surrounding lands , including Antarctica .

In November 1947 , a Falkland Islands Dependencies Survey (FIDS) ground party based at Stonington Island observed Mount Jackson and estimated its height at 3 @, @ 050 metres (10 @, @ 010 ft) , considerably lower and more accurate than the first estimate in 1940 .

After the Falkland Islands Dependencies Survey was renamed British Antarctic Survey in 1962 , a series of depots were developed , including one at Mount Jackson . BAS members were successful in making many first ascents of the mountains of the Antarctic Peninsula , and John Cunningham , who served at the BAS base at Adelaide Island , was the first to climb Mount Jackson . Traveling by dog sled for 640 kilometres (400 mi) , his team reached the summit on 23 November 1964 .

A precise height of the summit was determined by a BAS survey party who ascended the peak during the austral summer of 1996 ? 97 .

= = Geography = =

The mountain is 3 @, @ 184 metres (10 @, @ 446 ft) in height , with a prominence of 2 @, @ 187 metres (7 @, @ 175 ft) and a saddle DEM of 997 metres (3 @, @ 271 ft) . Mount Jackson and the Welch Mountains demarcate the central Black Coast , which is dissected by many inlets and is bounded on the west by Dyer Plateau of central Palmer Land , with elevation ranging between 2 @, @ 000 ? 3 @, @ 000 metres (6 @, @ 600 ? 9 @, @ 800 ft) , and on the west side of the central Black Coast . The two mountains rise above the ice shelf with reliefs of about 1 @, @ 200 ? 1 @, @ 500 metres (3 @, @ 900 ? 4 @, @ 900 ft) towards the east . They are interconnected by icefall zones forming a plateau with steep snow slopes . The northern part of the mountain system , which extends over 1 @, @ 590 kilometres (990 mi) , covers most of the Antarctic Peninsula , and Mount Jackson is its highest peak .

Mount Jackson rises from its southeast flanks , displaying a steep summit , while the north flank is occupied by a vast cirque . Supraglacial moraines on the mountain 's east side measure between 1 ? 5 kilometres (0 @. @ 62 ? 3 @. @ 11 mi) in length and display boulders at their distal ends . Mount Jackson and the Rowley Massif are separated by Odom Inlet . Cline Glacier drains eastern Mount Jackson before arriving at Odom Inlet .

Mount Jackson 's geology was studied in 1972 as part of the Palmer Island investigations by a team of geologists . They identified various rock types and underlying volcanic activity . The relief of the west facing slopes is gentler when compared to the eastern side , characterized by a steep rocky face . Rock weathering is intense in the area spread with scree and felsenmeer . Fresh rock formations and bedrock disintegration are noted .