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U.S. NAVAL ANTARCTIC EXPEDITION 1946-1947

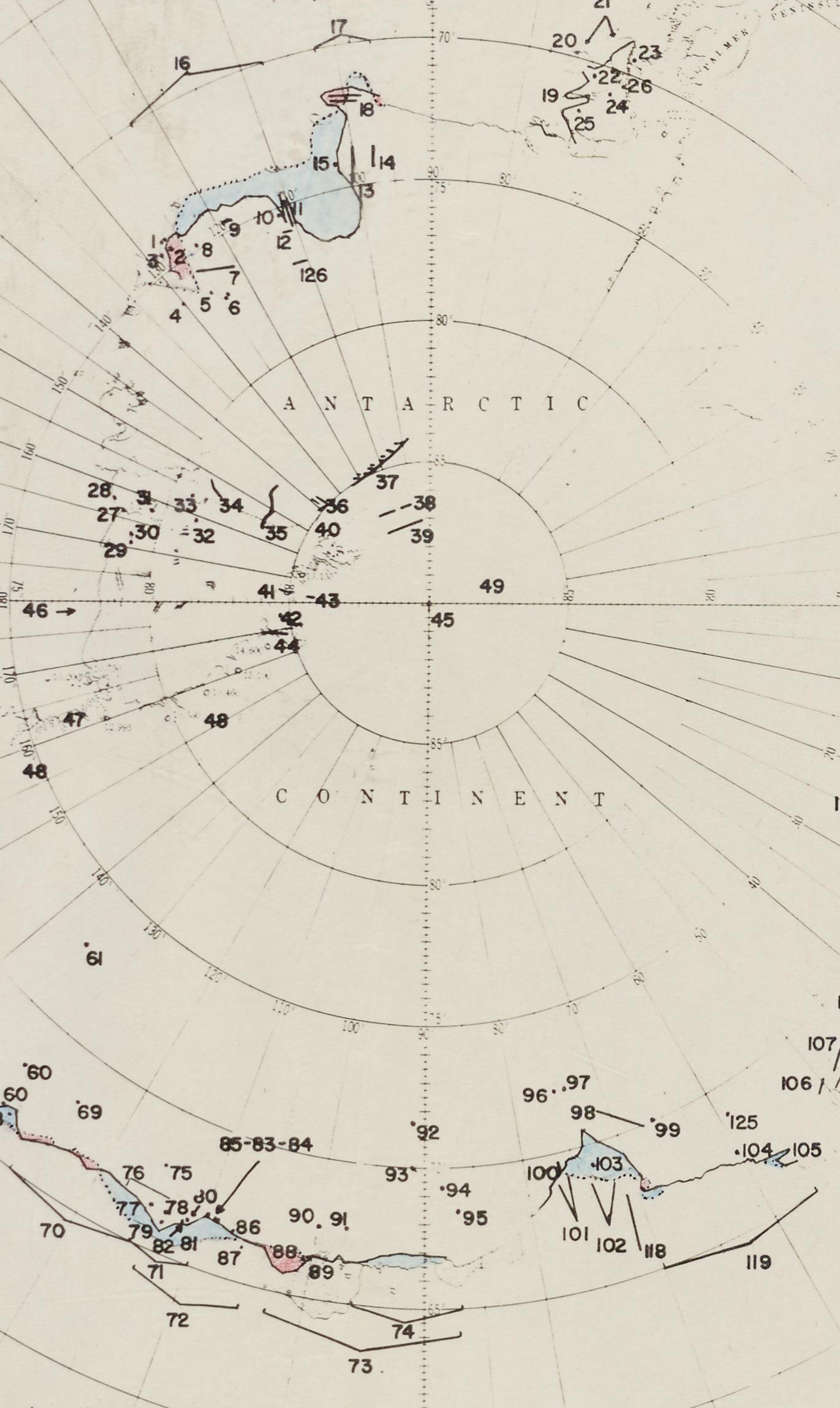
# DISCOVERY and EXPLORATION

Declassified 11-05

1. TWO SMALL ISLANDS, EXPOSED ROCK, ELEVATION 500'
- ✓ 2. MT SIPLE RELOCATED HERE, 15,000' ELEVATION CONFIRMED
3. OPEN WATER WEST AND SOUTHWEST OF MT SIPLE INDICATES GEORGE GETZ SHELF ICE NON-EXISTANT IN THIS LOCALITY.
- ★ 4. AND 5. HIGH MOUNTAIN SIGHTED HERE FROM DISTANT AIRCRAFT
- ★ 6. TWO HIGH MOUNTAINS, APPROXIMATELY 16,000'
- ★ 7. MOUNTAIN RANGE 9,000', PLATEAU TO SOUTH 8,000'
8. LARGE FIRN FIELD INLAND FROM COAST FROM 121 TO 128 W., 2,000'
- ★ 9. MOUNTAIN, 35 MILES INLAND, FROM 117 30 TO 118 42 W., 5,000'
- ★ 10. FIVE MOUNTAINS, ELEVATION 3,000', CENTERED AT 75 14 S 111 40
- ★ 11. MOUNTAIN RANGE, ELEVATION 3,000', EXTENDS ALONG 110 W.
- ★ 12. "X-RAY MOUNTAIN RANGE" ELEVATION FROM 2,500' IN WEST TO 15,000' PEAK OF MOUNT X-RAY AT THE EASTERN EXTREMITY
- ★ 13. MOUNTAIN RANGE, 35 EXPOSED PEAKS, 85 MILES LONG, ELEVATION RISES FROM 2,500' IN THE NORTH TO 5,000' IN THE SOUTH.
- ★ 14. FIVE MOUNTAIN PEAKS, ESTIMATED ELEVATION 6,000'
- ★ 15. FIVE SMALL ISLANDS, EXPOSED LAND, 400 YARDS LONG, 700' HIGH
16. THIS COASTLINE IS SNOW-COVERED WITH PATCHES OF BROWN LAND EXPOSED. OPEN WATER ALONG SHORE INSIDE OF PACK ICE.
17. ISLANDS AND GLACIERS DISCOVERED HERE. NORTH PART OF PENINSULA DEFINED BY OPEN WATER, WEST COAST DIFFICULT TO LOCATE.
18. TWO PARALLEL MOUNTAIN RANGES EXTEND APPROXIMATELY EAST-WEST ACROSS THE PENINSULA. (NOVILLE MOUNTAINS RELOCATED)
19. SEVERAL ISLANDS DISCOVERED IN THIS AREA.
20. MONIQUE PEAK SIGHTED, ESTIMATED 3,000', BUT TOP IN CLOUDS.
21. OPEN WATER ON NORTH COASTS OF ALEXANDER FIRST AND CHARCOT IS.
22. ICE COVERS WILKINS STRAIT JOINING ALEXANDER FIRST AND CHARCOT
23. SOUTHERN PORTION OF MARGUERITE BAY ACCESSIBLE TO SHIPS.
- ★ 24. AND 25. SIGHTED MOUNTAIN HERE.
26. LOCATION OF DOUGLAS RANGE AND OTHER MOUNTAINS ON ALEXANDER FIRST ISLAND ARE CORRECT AS PREVIOUSLY CHARTED.
27. ADDITIONAL DATA SECURED VIA AERIAL PHOTOGRAPHY CONCERNING SPEED AND DIRECTION OF MOVEMENT OF SECTORS OF ROSS SHELF ICE.
28. KAINAN BAY FORMED BY SUBMERGED ISLAND.
29. STRONG MAGNETOMETER IRREGULARITY INDICATED SUBMERGED ISLAND OR VOLCANIC DYKE UNDER SHELF ICE AT THIS POINT.
30. CONFIRMED PRESENCE SUBMERGED ISLAND.
31. MAGNETOMETER CONFIRMS OUTLINE OF SUBMERGED ROOSEVELT ISLAND.
32. SUBMERGED ISLAND HERE (MAGNETOMETER)
33. SUBMERGED ISLAND THOUGHT TO BE HERE IS EITHER NON-EXISTANT OR OF SEDIMENTARY ROCK STRUCTURE.
34. EAST COAST OF ROSS SEA DISCOVERED UNDER ICE COVER.
35. DISTINCTIVE SNAKE-LIKE BELT OF DISTURBED ICE.
- ★ 36. MOUNTAIN GROUP WITH PLATEAU TO SOUTH.
- ★ 37. HIGH MOUNTAIN RANGE WITH FOOTHILLS TO NORTH.
- ★ 38. MOUNTAIN RANGE, ELEVATION 9,000', WITH SADDLE PASS.
- ★ 39. MOUNTAIN RANGE, ELEVATION APPROXIMATELY 13,000'.
40. DISCOVERED GLACIER DESCENDING FROM POLAR PLATEAU.
41. INTERIOR AND UPPER REACHES OF WADE GLACIER EXPLORED. MOUNTAINS AND TRIBUTARIES TO WADE GLACIER DISCOVERED.
42. EXPLORED MOUNTAINS BETWEEN WADE AND BEARDMORE GLACIERS.
- ★ 43. SMALL GROUP OF MOUNTAINS APPROXIMATELY 10,000' LOCATED HERE.
44. EXPLORED TRIBUTARY GLACIERS AND MOUNTAINS OF BEARDMORE AREA.
45. REVISITED THE SOUTH POLE, EXPLORING BEYOND IT FROM L.A.
46. DISCOVERED CHANGES IN ICE FRONT, TENSION CRACKS, PRESSURE, ETC.

47. EXPLORED DRY GLACIERS, ICE LAKES, STREAMS AND FALLS, DEVIL'S POSTPILE, ETC. HERE
48. EXPLORED AND MAPPED ENTIRE WESTERN AND CENTRAL PORTIONS OF MOUNTAINS BORDERING WEST COAST OF ROSS ICE SHELF. NOTHING BUT POLAR PLATEAU VISIBLE WEST OF MOUNTS.
49. POLAR PLATEAU LEVEL AND FEATURELESS TO EXTENT OF VISIBILITY.
50. BUCKLE ISLAND MAPPED, PEAK ELEVATION 3,900'.
51. RUSSELL PEAK ON STURGE ISLAND 8,500', ISLAND MAPPED.
- ★ 52. MOUNTAINS 8,000' BETWEEN CAPES CHEETHAM AND WILLIAMS, HIGHER MOUNTAINS TO THE SOUTH AND A VERY HIGH ROLLING PLATEAU INLAND.
53. RENNICK BAY EXTENDS INLAND TO 71 30 S. LINED BOTH SIDES MOUNTAINS UP TO 8,000'.
54. SCATTERED LOW MOUNTAINS IN THE VICINITY OF ARCHER'S POINT.
- ★ 55. GATES COAST LINES WITH MOUNTAINS UP TO 10,000' ELEVATION.
56. ROLLING ICE PLATEAU AVERAGING 6,000' IN ELEVATION.
57. SEVERAL NEW ISLANDS AND GLACIERS FOUND ALONG THIS RUGGED TERRAIN COASTAL AREA.
58. SOUTH MAGNETIC POLE MAY HAVE MOVED HERE (INEXACT AIRCRAFT COMPASSES).
59. ICE CAP ELEVATION 8,500' AND FEATURELESS EXCEPT FOR ROLLS, FEW SHARP RISES.
60. FEATURELESS ICE CAP AREAS,

70. LOOSE PACK, NAVIGABLE BY ICE BREAKER AT ANY POINT.
71. OPEN WATER ALONG COAST AS FAR OUT AS VISIBILITY (15 MILES).
72. MANY SMALL ISLANDS AND MANY NUNATAKS ALONG COAST, NO MOUNTAINS.
73. ACTUAL COASTLINE THIS AREA DOES NOT AGREE WITH EXISTING CHARTS.
74. OPEN WATER IN DAVIS SEA FROM 92 E TO THE SHELF ICE.
75. ICE CAP RISES TO A GREAT ELEVATION WEST OF 115 E.
76. ICE CAP LESS THAN 1,000' ELEVATION IN THIS AREA.
77. TWO LARGE GLACIERS HERE.
78. ICE CAP FORMS DOME AT THIS POINT, RISING TO 5,000'.
79. ICE CAP ELEVATION 2,700'.
80. OUTCROP OF BLACK EARTH (POSSIBILITY OF COAL?)
81. 110 E MERIDIAN DEEPLY EMBAYED.
82. GLACIER, RUST COLORED LAND OUTCROPS DISCOLOR GLACIER AND ITS BERGS
83. LARGEST GLACIER IN GROUP, SHEER DROP OF 1,000'.
84. AND 86. GLACIER,
85. EXCELLENT LANDING FIELD ACCESSIBLE TO PROTECTED SHIPS.
87. DISCOVERED NARROW ICE TONGUE.
88. SEVERAL NUNATAKS HERE.
89. "BUNGER'S OASIS", 20 MILE CIRCLE OF ICE FREE HILLS 500' AND CORNER SHARP, MANY COLORED LIQUID LAKES, SUITABLE FOR LANDING SEAPLANE.
90. DENMAN GLACIER EXTENDS SOUTH TO 67 35, RIMMED BY 5,800' MOUNTAINS
91. ICE CAP ELEVATION 6,000.
- ★ 92. MOUNTAINS SIGHTED HERE PROTRUDING SEVERAL THOUSAND FEET OVER ICE CAP
93. ICE CAP ELEVATION 8,300'.
94. ICE CAP ELEVATION 8,000'.
95. NUNATAK DISCOVERED HERE.
96. LARGE GROUP OF MOUNTAINS.
97. ICE CAP ELEVATION ABOUT 8,000'.
- ★ 98. PROMINENT MOUNTAIN RANGE.
- ★ 99. PROMINENT MOUNTAIN RANGE.
100. SORSDAL GLACIER MUCH LONGER THAN DESCRIBED.
101. SOUTH COAST OF MACKENZIE SEA IS OPEN WATER.
102. SHELF ICE TWO HUNDRED FEET HIGH.
103. MOUNTAIN INDICATED HERE ON EXISTING CHARTS, DOES NOT EXIST.
104. ICE CAP ELEVATION 20 MILES IN IS 3,500. ASCENT CONTINUES.
105. EDWARD VIII GULF MUCH LARGER THAN CHARTED, HAS SPLIT GLACIER.
106. SCOTT RANGE 6,000+', TOP OBSCURED
- ★ 107. MOUNTAIN RANGE.
108. LARGE GLACIER DISCOVERED HERE.
109. MAX. ELEV. ALONG THIS LINE IS 4,000'.
110. GLACIER, AND SHELF ICE TO THE NORTH.
111. THORSHAMMER ISLAND IS NON-EXISTANT.
112. THIS PENINSULA ACTUALLY IS SHELF ICE.
- ★ 113. SIGHTED MOUNTAIN RANGE HERE.
- ★ 114. LOWER AND LESS WELL DEFINED MOUNTAIN RANGE.
- ★ 115. MOUNTAIN RANGE 13,000', ICE CAP TO NORTH 5,000'.
116. PAYER GROUP OF MOUNTAINS MISPLACED. THE PLANE FLEW NEARBY IN GOOD WEATHER BUT DID NOT SIGHT IT.
117. LOCATION OF ICE TONGUE CONFIRMED.
118. OPEN WATER TO OCEAN, EXCEPT FOR VERY LOOSE PACK.
119. PREVIOUSLY KNOWN COASTLINE REMAPPED AND CONFIRMED. ABOUT HALF OF THIS COAST HAS OPEN WATER INSIDE LOOSE PACK ICE.
120. NUNATAKS ALONG EDGE OF COAST.
121. ACTUAL COASTLINE HERE LIES 30-TO-45 MILES SOUTH OF THAT PLOTTED ON EXISTING CHARTS. THE FORMER COASTLINE WAS ACTUALLY THE ICE BOUNDARY AS DEMONSTRATED BY THE AIRCRAFT RADIO ALTIMETER.
122. CONSOLIDATED PACK OFF COAST. CLOSE COVER FROM 0 TO 14,000' OVER THE CONTINENT PREVENTED EXPLORATION.
123. SHELF ICE EXTENDS NORTH OF COAST TO 69 55 S BETWEEN 03 AND 04 E.
124. PROBABLE ROCK (GARBLED WORD) APPARENTLY OF VOLCANIC ORIGIN.
- ★ 125. PROMINENT MOUNTAIN RANGE SIGHTED HERE.
- ★ 126. MOUNTAIN RANGE SIGHTED HERE.



61. ICE CAP ELEVATION 9,500 AND ABSOLUTELY FEATURELESS.
62. VALLEY OR GLACIER EXTENDS ALONG 138 30 E, FROM BEYOND HORIZON TO THE SEA.
63. LOOSE PACK, EASY ACCESS TO THE COAST WITH AN ICEBREAKER.
64. SOLID PACK WITH NO LEADS FROM DAVIS BAY TO CAPE DECOUVERTE.
65. DENSE PACK AND OCCASIONAL OPEN BODIES OF WATER IN SOLID PACK.
66. CLOSE PACK OF SMALL FLOES OFFSHORE, SCATTERED COLLECTIONS OF ICEBERGS.
67. ICE LAKE 20 BY 50 MILES LOCATED HERE.
68. PORPOISE BAY DISCOVERED TO BE MUCH DEEPER THAN PREVIOUSLY KNOWN.
69. ICE CAP ELEVATION 6,500'. NO MOUNTAINS OR GLACIERS VISIBLE FROM HERE.

120. NUNATAKS ALONG EDGE OF COAST.
121. ACTUAL COASTLINE HERE LIES 30-TO-45 MILES SOUTH OF THAT PLOTTED ON EXISTING CHARTS. THE FORMER COASTLINE WAS ACTUALLY THE ICE BOUNDARY AS DEMONSTRATED BY THE AIRCRAFT RADIO ALTIMETER.
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NOTE: THE COMMENTS LISTED HEREON ARE EXCERPTS FROM CODED DISPATCHES, FROM INTERROGATION OF AIR CREWMEN, OR FROM CASUAL EXAMINATION OF AERIAL PHOTOGRAPHIC PROOFS (TASK GROUP 68.5 ONLY). AT THIS DATE THE MAPPING PHOTOGRAPHY HAS NOT BEEN PREPARED OR EXAMINED.

THIS PRELIMINARY EDITION SUBMITTED 18 APRIL 1947.

★ = Mountain Feature Discovered  
 ○ = Ice Feature Discovered  
 □ = Island Discovered  
 ~ = Coastline Changed  
 • = Important Misc. Discovery

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