

# East, West Antarctica Are Unconnected

## Meeting Place of Three Great Oceans Topic of Article

(Editor's note: This is another installment of an account of an Antarctica expedition by Herb Grey, advertising manager of the Mail Tribunes. Grey was a guest of the Navy in Operation Deep Freeze 1960 in which the USS Glacier and USS Burton Island went into the Bellingshausen sea area for scientific purposes.)

By HERB GREY  
Mail Tribunes Advertising Manager

What about Antarctica? And what is the history of the Bellingshausen sea?

Unlike the Arctic, which is a giant mass of floating ice, Antarctica is solid land covered with a great glacial mantle. Its area is over 5 million square miles, barely equal to that of South America and the combined size of the United States and Western Europe. Here is the meeting place of the great oceans—Atlantic, Pacific and Indian.

There is now evidence to boost the initial estimates of the world's total frozen water to the present staggering sum of 4½ million cubic miles of ice.

### East, West Unconnected

Apparently, too, East and West Antarctica are unconnected, split by a continuous ice-filled trough running from the Ross sea on the Pacific side of the continent to Weddell sea on the Atlantic side. Larger, less rugged eastern Antarctica is apparently a solid land mass beneath the ice; the western portion is apparently a rugged archipelago of towering mountains and deep fiords, held together by a thick covering of ice.

In the Department of the Navy's brief account of polar explorations published in 1950, this statement appears:

"With its innumerable massive glaciers, ice cliffs, ice tongues, barrier ice, volcanoes, high mountain peaks, extreme cold climate, virtual lack of vegetation and general lifelessness, Antarctica can only be described as sinister and mysterious. Probably less is known about it than the sun-lit side of the moon."

But, since that statement was published a decade ago, intensive scientific research has revealed many secrets here about the earth's history dating before the ice age. Although a land still unexplored and largely unknown, the light of knowledge is being shed upon this vast continent.

Within the past few years, especially since the start of the International Geophysical Year in July, 1957, extensive research programs have been undertaken by the U.S. and Russia, with less ambitious studies by Australia, Belgium, Poland, the United Kingdom, New Zealand, Argentina, Chile, France, Japan and Norway.

During the 18-month IGY alone, 27 tons of scientific



**UNIT COMMANDER**—Capt. Edwin A. McDonald, commander task unit 43, is shown on the bridge of the USS Glacier during the penetration of the unknown and uncharted Bellingshausen sea during Operation Deep Freeze 60. A veteran of polar exploration in both the Arctic and Antarctic, Captain McDonald was Commodore for the expedition, which took the USS Glacier and USS Burton Island into the area. (Official Navy Photo)

satellites in orbit and as an important hub of future air travel. The pole is stationary while other points on the earth's surface move from west to east.

And, while the curtain of mystery is drawn upon enigmatic Antarctica, it is heartening to note in this atomic age that this last vast continent became the first to be freed from the threat of nuclear explosions. The 12 interested nations signed a treaty last year declaring that it "shall be used for peaceful purposes only."

### Frees All Claims

The same Washington treaty froze all claims in Antarctica and prohibited new ones. According to accepted international practice, titles to land can be acquired only by purchase or transfer from one nation to another and by discovery and/or occupation. The United States has discovered and occupied much real estate in Antarctica but has made no formal claims. Russia, likewise, has established no claims and recognizes none.

The Washington treaty seems to be a step in the direction of the U.S. plan to "internationalize" the continent.

Quite a few men have won fame for their daring and determination, their persistence and patience in exploring the waters and the land of Antarctica.

**Before Turn of Century**  
Before the turn of the century there were Capt. James Cook, Capt. James Weddell, Rear Admiral Charles Wilkes and Sir James Ross. Since that time, Sir Robert Scott, Roald Amundsen, Sir Ernest Shackleton, Sir Douglas Mawson and Rear Admiral Richard Byrd have been foremost among those who have carved enduring fame in the ice of Antarctica.

Less familiar to many were the voyages of Capt. Thaddeus Bellingshausen, sent by Russian Czar Alexander I to explore the islands of the South Pacific. In the Vostok and the Mirny he sailed from South Georgia Islands on Dec. 27, 1819, to the South Sandwich group, then crossed the Antarctic Circle on Jan. 26,



**UNDER WAY**—America's largest ice-breaker, USS Glacier, is shown plowing through southern seas for her rendezvous with the USS Burton Island, another smaller icebreaker, and Operation Deep Freeze 60 penetration into the Bellingshausen sea. The ship has laboratory facilities for oceanographic, meteorological and photographic studies and carried several scientists on the expedition. (Official Navy Photo)

West Loch, Oahu, Hawaii. Captain McDonald was promptly ordered to the destroyer mine sweeper USS Hovey as executive officer and later became commanding officer of that ship.

During the last war he was commanding officer of the destroyer USS Wren. For successfully directing the fire of his ship to destroy five suicide planes at Okinawa, he was awarded the Silver Star.

He was three times awarded the Bronze Star—once for participation with the Third Fleet off Japan during the later stages of the war and again for the campaign against the Kuril Islands. Another time, while in command of the USS Hovey, he was awarded the Bronze Star for operations conducted in the Solomon Islands. The ship also received the Navy Unit Commendation.

Following World War II, he served on the Staff of Commander, Western Sea Frontier and later as commanding officer of the USS Burton Island. After serving as cold weather operations planning officer in Washington, D.C., he received command of the survey ship USS Tanner.

From 1953 to 1956, Captain McDonald was Sub Group One Commander and Chief of Staff to Commander, Columbia River Group, Pacific Reserve Fleet. He reported in 1956 to U.S. Naval Support Force, Antarctica, as Task Group Commander for Weddell Sea operations, Operations Deep Freeze II and III.

### Other Medals, Awards

In addition to the Bronze Star with Combat "V" and two clusters, the Silver Star and Navy Unit Commendation, Captain McDonald has the following awards and medals: National Defense Service Medal, American Area Campaign Medal, Asiatic-Pacific Area Campaign Medal, with one silver and two bronze stars, American Defense Service Medal, World War II Victory Medal, Navy Occupation Service Medal, and the Philippine Liberation Ribbon.

For Antarctic operations, he has been awarded the commendation ribbon twice. Recently, the Belgian government bestowed the Decoration of the Order of Leopold on him for his efforts in relieving the ship Polarhav and the King Baudouin Base.

Others in the Commodore's Mess included Dr. Murphy, with sparkling humor, widely traveled Arthur Beaumont, and Lieut. Comdr. Joseph Morgan, hydrographic and oceanographic officer U.S. Naval Support Force, Antarctica, and Chief Staff Officer for the Task Unit, Lieut. Col. Herb Nichols, and Amory (Bud) Waite and Phil Smith, all with long experience in the Antarctic. Conversation was seldom dull.

### Pick Up Convoy

The day following our departure from Port Lyttelton we picked up a convoy of wandering albatross and giant petrels, with one sooty albatross. I knew that we could be certain of the species of birds on this voyage with such an eminent authority as Dr. Murphy aboard.

Bounty Island of fiction fame was passed on the port side approximately 60 miles distant and later the Ant-

podes, only about 25 miles off the port side but hidden in the fog. One of the ship's 10 engines was out of commission but, with 18,900 remaining horsepower, the officers were not greatly disturbed.

At Tuesday's Commodore's Mess, the discussion included the feasibility of mapping areas by missile photography. The Bellingshausen sea area, our goal for this expedition, has been mapped by aerial photography but the difficulty of distinguishing between ice-covered land and ice covered water renders this method less dependable. Five plane flights had covered this portion of Antarctica during "Operation High Jump" and subsequently aerial photos were made.

It was our expedition's hope to affect a landing so a fixed point might be established for more accurate reconnaissance.

## Pickets Ignore Plea To End Boycotting

By United Press International  
Negro pickets ignored a plea Saturday by Mayor Lee Mingledorff to end a protest boycott movement in Savannah, Ga.

Mingledorff asked that all picketing and measures of force be halted in an effort to ease racial tension in the Georgia city. Negroes have been boycotting Savannah merchants in protest against segregation and racial discrimination for several weeks.

Many Savannah merchants have reported their business is being hurt. Several incidents of violence have occurred and anti-boycott picket lines have been thrown up by members of the pro-segregation white citizens council.

Mexico City—UP—Canadian Prime Minister John Diefenbaker said Saturday night meeting of the Organization of American States but not necessarily as a member.

# MONEY SAVERS

|  |  |  |   |
|--|--|--|---|
| <b>Van Camp Pork &amp; Beans</b><br>300 Can<br><b>10<sup>c</sup></b> | <b>Delrich Margarine</b><br>4 lbs. <b>49<sup>c</sup></b> | <b>Tide Detergent</b><br>Giant Size<br><b>59<sup>c</sup></b> | <b>Borden's Biscuits</b><br>Sweet & Buttermilk<br><b>10<sup>c</sup> ea.</b> |
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| <b>Handy Hams</b><br>89 <sup>c</sup> lb.<br>Cascade Boneless—No Fat, No Waste | <b>Country Style — Special Seasoning Sausage</b><br>lb. <b>33<sup>c</sup></b><br><b>Good &amp; Choice Locker Beef</b><br>Half 49 <sup>c</sup> lb. Front ¼ 43 <sup>c</sup> lb. Hind ¼ 59 <sup>c</sup> lb.<br>CUT—WRAPPED AND QUICK FROZEN—FREE |
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## —BUCK DEALS—

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| Del Monte Pineapple-Grapefruit Juice 29-oz. | 5/\$1.00  |
| Del Monte SPINACH 303's                     | 8/\$1.00  |
| Treasure TOMATO SAUCE 8-oz.                 | 13/\$1.00 |
| Market KIDNEY BEANS 303's                   | 7/\$1.00  |
| Tastewell PEAS 303's                        | 10/\$1.00 |
| Double Luck GREEN BEANS 303                 | 8/\$1.00  |
| Sunshine CRACKERS 2-lb. Pkg.                | 49c       |

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| <b>LETTUCE</b><br>New Crop<br>Sweet<br>Tender<br>Heads<br><b>2/29<sup>c</sup></b> | <b>10/89<sup>c</sup></b><br>Coachella<br>Ruby Reds<br><b>GRAPEFRUIT</b> |
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