

BEFORE MINE

SATURDAY PROGRAMS

The National Broadcasting company's program for Saturday night follows: 8, grand opera album; 8:30, symphony concert; 10 to 12, "The Big Show."

KGO—Oakland (234.4m-750kc) 8, NBC.

KLLJ—Los Angeles (159.4m-750kc) 8, program; 9, concert; 10, orchestra; 12 to 1, intermission.

KYA—San Francisco (252.7m-850kc) 8, hospital program; 9, music; 10 to 12, Radio Big Show.

KGA—Spokane (266.7m-150kc) 8, ABC; 9:15, studio program; 10, music.

KFRC—San Francisco (154.3m-690kc) 8, concert; 10:10, dance.

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ment; 12:10 to 1:10, organ and NBC; 12:30, organ recital; 12, 10 to 12, dance from. 10:00.

KJPO—San Francisco (422.3m-710kc) 8, NBC.

KFT—Los Angeles (165.5m-640kc) 8, studio program; 9, orchestra; 10 to 12, concert orchestra.

KOMO—Seattle (269.1m-870kc) 8, NBC; 10:10, theater from; 11, 10:00.

KJON—Long Beach (241.3m-740kc) 8, news, band concert; 9, orchestra.

KJH—Seattle (241.5m-860kc) 8, music; 9, symphony orchestra; 10 to 12, dance music.

KES—Portland (277.6m-800kc) 8, M. T. C. program; 8:50, music; 9, orchestra.

KHQ—Spokane (270.2m-810kc) 8, NBC.

KGW—Portland (491m-610kc) 8, NBC.

KFWH—Hollywood (361.2m-320kc) 8, program; 10 to 11, dance orchestra.

By Williams Explorers Must Probe Ice Cap To

Learn Secrets of Cold Antarctica

(Editor's Note: This is the fourth of a series of stories on forthcoming expeditions of exploration into the Antarctic.)

By John L. Cooley
(Associated Press Science Editor)
NEW YORK (AP)—Knowledge of the Antarctic continent is so sketchy that if a hundred airplane expeditions could be set down on its icy plateau there would be plenty of work for everybody, and no need for duplication.

Many south polar explorers in recent years have expressed the hope that some day the airplane could be used in this ill but impassable land. Heretofore, dog sledges and even automobiles have been used to supplement man power, but the tremendous distances and unmountainous obstacles laid down by nature call for a transportation method that is independent of earth.

During the coming Antarctic summer—it will be mid-winter in northern latitudes—three parties of scientific birdmen are to attempt flights over limited sections of the continent. Some of them will try to land at heretofore inaccessible places of the interior to glean more information for geology, meteorology, zoogeography and just simple geography.

Why Do They Seek?
What do they seek from this dead land?

Scientists would like best of all, perhaps, to be able to lift the great ice-cap that covers Antarctica to an unknown depth. Then they could see the rocky floor that supports the glacial, determining whether it is a continuous mass or is divided into islands; whether the mountains of West Antarctica are really a continuation of the Andean formation in South America, as many investigators have believed; and whether East and West Antarctica, structurally different, are separated by a hidden arm of the sea.

These two general geographical divisions of the continent are built in rather striking contrast. West Antarctica, lying nearest to South America, is folded, as the geologists say, while the other part of the continent is a great elevated mass of land, with none of the characteristics of the Andean chain found in the west. It is the dissimilarity between the two sections that has suggested the possible existence of a chain of long since choked with ice. It may once have joined Ross and Weddell seas, the two great gulfs that indent Antarctica on opposite sides.

Unfortunately, however, explorers and scientists must take Antarctica as they find it, sea-ice and all, and so one of their problems is to determine the profile of this barren expanse in the hope of learning how much of the plateau is ice and how much is rock. Then, too, they want to measure the thickness of the ice with sounding devices, a labor that might disclose some of the characteristics of the continental floor.

So far, the geological studies have been fragmentary, for the rock outcrops are few, confined chiefly so far as is known, to the steep cliffs of mountains. If airplane travel is successful, geologists of the Byrd or subsequent expeditions may be able to find favorable locations for their examination.

Antarctica was charted in com-

paratively recent times, geologically speaking yet no traces of an earlier ice age have been found. They may exist, however, in undisturbed sedimentary strata; and the finding of them records is another job for the geologist, who cannot make himself believe that there is a polar land with no history of previous glaciation.

Many other scientific problems await the well-equipped explorer. The question of Antarctica's effect on the climate of the southern hemisphere is considered of great importance and has been studied to some extent, but meteorologists want more data. It is known that the terrific winds that sweep down the great white dome of the continent have direct bearing on the weather in southern South America and the Antipodes.

Other Studies Desired
Oceanographic studies are also desired, for the Pacific, Atlantic and Indian oceans form the water boundaries of the continent and are influenced by its glaciation. Then, too, the sea off the coastal cliffs abounds in marine life, and the shore itself harbors countless penguin rookeries, affording excellent material for zoogeographic investigations of the Antarctic.

Antarctica, inhospitable as it is, is not without economic possibilities. For years whalers have sailed among the island groups that lie off the continent, getting rich rewards for their labors. Coal has been found in the section between King George V Land and Ross Sea, while metallic ores, in small quan-

ties, have been discovered in some of the explored areas. Few persons are prepared to predict, however, that the Antarctic continent will be useful to man for a long time. It will probably remain for generations just what it is now—a land of ice and silence.

An original copy of "Chaucer brought \$20,000 the other day. And a long time. It will probably not a smutty book, either.

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Armour's Star, Best quality, 1/2 or whole ham.

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Fancy Klondike

POUND 2 1/2c

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Each 10c

New Potatoes
Home grown.

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Delicious for picnics.

3 Packages 25c

Pickles
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FULL QT. JAR 39c

Olives
Golden Feather Brand large ripe olives.

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Slightly broken slices, large No. 2 1/2 size cans

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Plato Oil
For salads and fancy cooking. A pure vegetable oil.

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Different ones have asked me, "Is your selling out this year like it was last year?" Well, last year it was our own fault, because we didn't sell out as we would not accept the offer and this year if we don't sell it will be the other fellow's fault. It would be too bad if something would happen and the people of La Grande would have to put up with me another year or so. I might save them some money and make a few more friends and enemies; however, I would rather make friends than enemies. We are not figuring on staying and hope our deal goes through. I haven't got the credit of knowing very much—that's the reason why we tell most people what little we do know. It would be better some times, no doubt, if I would keep my mouth shut, but it just seems like before I know if my mouth is wide open again and what little we think we know comes over the top. My mother used to scold me for it. She said I couldn't keep a secret if I had it locked up in a vault. It takes all kinds of people to make a world and I am one of those peculiar kind.

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