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GEOGRAPHY OF ANTARCTICA.

Reviewing Sir George Wilkins's great flight in the Antarctic, Sir Douglas Mawson points out that the problem which has long presented itself to geographers, whether East Antarctica is separated by a water channel from West Antarctica has not yet been solved.

flight was extremely hazardous.

Geographers' Knowledge Increased. Sir Douglas added that the flight of Wilkins and Eielson over the Graham Land extension of the Antarctic regions was of very great interest to geographers, and had immensely added to their snowledge of the area.



SIR DOUGLAS MAWSON.

South America, apparently dies out to the south, disappearing under an extensive ice sheet which must be continuous with the continent we know to exist further south and east.

Earlier Researches.

"The reports of Sir George Wilkins indicate that the channel explored in French explorer, extending between the lands discovered by him, namely, Charcot Land and Falliere Land, continues through to the Weddell Sea, though capped by a floating sheet of fresh water ice like that of the well-known Ross Sea barrier in the Australian Antarctic region. Charcot, in Graham Land." Capt. Larsen, of Norwegian whaling fame, in 1893 pushed down the east coast of Graham Land to a point

shown the value of exploration by the water channel.

In an interview with a representative air in joining up the work of these two The Register on Wednesday, Sir men, and proving that a channel does ouglas Mawson, Professor of Geology exist in that locality, between the Wedat the Adelaide University, said it would dell Sea and the Pacific Ocean. So far appear from the reports cabled that Sir as can be judged from the reports to George Wilkins had travelled south on hand, it would appear that Sir George a flight of 11 hours from Deception Island, Wilkins reached to about 712 deg. S one of the South Shetland islands, in latitude. His statement indicates that in 63 deg. south latitude, and had reached that location the real continental ice has us far as about lat. 71.30 deg. S. That been met, and that it is of the nature of point of latitude and distance would a sweeping, smooth surface rising from correspond to a flight from, say, the Barrier ice at the coastline to elevated Trondhjem to North Cape, in Norway, plateaux in the interior. This would Although the flight appeared to be so correspond with the type of coast reported continued Sir on the east side of the Weddell Sea by Douglas, it should be known that had the Bruce, Shackleton, and Filchner anything gone wrong with the plane expeditions. Wilkins has reported that and a forced descent become necessary, at a point about 50 miles south of Weather the consequences would by no means Island, which is on the Antarctic Circle, have been pleasant to contemplate. The there exists a large island. This land was seen by Capt. Larsen, who was not, however, able to determine whether it was an island or part of the mainland of Graham Land.

Solving the Problem.

"In some of the early newspaper reports that came through regarding the flight, it was stated that the greatest geographical problem of the Antarctic region had been solved, namely, that instead of being one continent, it was now found to be divided into two separate areas. That statement is not really correct. The problem to which reference was there made undoubtedly has to do with the oft-discussed relationship of East Antarctica to West Antarctica. That problem was first brought under notice by the noted Swedish explorer, Dr. Otto Nordenskjold. He thought it probable that the Graham Land extension of Antarctica continued southward and westward, eventually to join with King Edward VII. Land, on the east side of the Ross Sea. This land area he referred to as West Antarctica. The high plateau region on the western side of the Ross Sea. extending beyond the Pole itself, and stretching far over to the Indian and Antarctic Oceans, he refers to as East Antarctica. Geographically, West Antarctica.

What the Flight has Shown.

many reasons has been regarded as a uca with West Antarctica. That is the age. It was obvious that the plant socie-Australia." continuation of the Andean chain of greatest problem. So far Sir George Wil-ties were being changed, and that the kins's flight has shown that the Graham change was due to the influence of grazing Land extension is itself cut off by water animals. It appeared to be of some channels from the more southerly exten-interest, and probably of economic importsion of Western Antarctica. Though the ance, to study precisely what these mountain chain of which Graham changes were and how they were effected. Land is composed, descends be To do so required an experimental area The cabled announcement that, owing neath the sea in its southern over which no grazing would be allowed to the illness of His Majesty the King, the extension, and is crossed by a water and from which rabbits could be excluded issue of the customary New Year honours channel, yet there is good reason to ex Hamilton & Wilcox, Limited, generously list will be postponed, is confirmed in a pect that it does continue to extend gave to the University of Adelaide an notification from the Governor-General. 1909 by Dr. Jean Charcot, the famous firther south and west, eventually postarea of about 1,300 acres upon Koonamore notification from the Governor-General.

Indeed, discovered by him and west, with the control of the University of Adelaide and firther south and west, eventually postarea of about 1,300 acres upon Koonamore notification from the Governor-General.

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Indeed, discovered by him and west, eventually postarea of about 1,300 acres upon Koonamore notification from the Governor-General. Land. Sir George Wilkins's flight covers Australia), and enclosed it in a verminabout a third of this distance, so that proof fence. there is still much to be done before the "This area is now known as the Koona-

A Correction.

explain the major problem as distinct the reserve a three-roomed galvanized from the relationship of Graham Land fron house for use as a field laboratory. but found the pack ice so heavy that he land from the Polar continent was not were primarily designed to study the proved; whereas he had intended to convey that it was not yet proved that the mass of West Antarction was some ted plants over the enclosed area. It



The map shows the area covered by the Australasian Antarctic Expedition of 1911-14.

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THE MAN ON THE LAND.

PASTURE REGENERATION.

Research at Koonamore.

these two areas are very different re- Professor T. G. B. Osborn, of the Uni-investigation. This assistance has made gions. He has discussed the possibility versity of Sydney, and formerly of their possible to station a resident field officer of the two regions being quite separate. Adelaide University, has written anat the reserve, and Mr. T. B. Paltridge, with a potential water channel between interesting article on the Koonamore B.Sc., has been appointed to the position. them extending from the Ross Sea to Vegetation Reserve in the current issueThe field laboratory has been added to the Waddell Sea. In any case," said of The Journal of the Council of Scien-and improved to make it suitable for occu-Sir Douglas, "this sea channel would betific and Industrial Research. "Somepation as a permanent residence. An decked with ice, thus joining East and years ago," he points out, "the writerextended programme of work is now in first began to study the plant life in aridoperation affecting not only the reserve Australia. The object was primarily totself, but also including, with the co-operaexamine the plant communities growingtion of local landowners, the study of the "It is hoped," Sir Douglas proceeded there and the relationship between them fodder plants growing in the district "that the labours of the Wilkins and It was early realized that many of thearound under conditions of pastoral exploi-"The outstanding feature," he con- Byrd expeditions at present in the field higher communities were degenerating, fortation. That these are problems which tinued, "is that the high mountainous will go far toward clearing up the uncer no young trees or shrubs were appearingment study is recognised by all who are backbone of Graham Land, which for tainty of the relationship of East Antarc to replace those destroyed or dying of oldfamiliar with the pasteral industry in arid

major problem is disposed of." more Vegetation Reserve for the study of saltbush flora. It was deliberately selected as showing a diversity of country Sir Douglas Mawson pointed out that from which the greater part of the original his small vessel, the Pourquoi Pas (Why after he had spoken over the telephone salt and blue bushes had been destroyed Not), was repulsed by the pack ice from on December 21, in an endeavour to by stock. The donors built adjacent to appearing in The Register on December 22, which credited him with having by the Department of Botany in the Unibut found the pack ice so heavy that he bear the Polar continent of Graham versity of Adelaide. The experiments

"Now," Sir Douglas said, "Wilkins has the mass of West Antarctica was sepa- was originally planned to make shown the value of exploration by the trate channel to have the form of maps and careful records in the form of maps and photographs of selected plots within the reserve. Other observations on the conditions of growth and reproduction of the plants were begun.

An Extended Programme.

"When in January, 1928, the writer was appointed to the Chair of Botany in the University of Sydney, the Council of the University of Adelaide asked him to continue the oversight of the work for a time in order that there might be no break in the sequence of observations. At this stage the Council for Scientific and Industrial Research undertook to subsidize the

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NEW YEAR HONOURS.