Register, fannary 20th, 1911.

# FADLAR RESEARCH.

Mawson's Plans.

## Wireless Messages Daily.

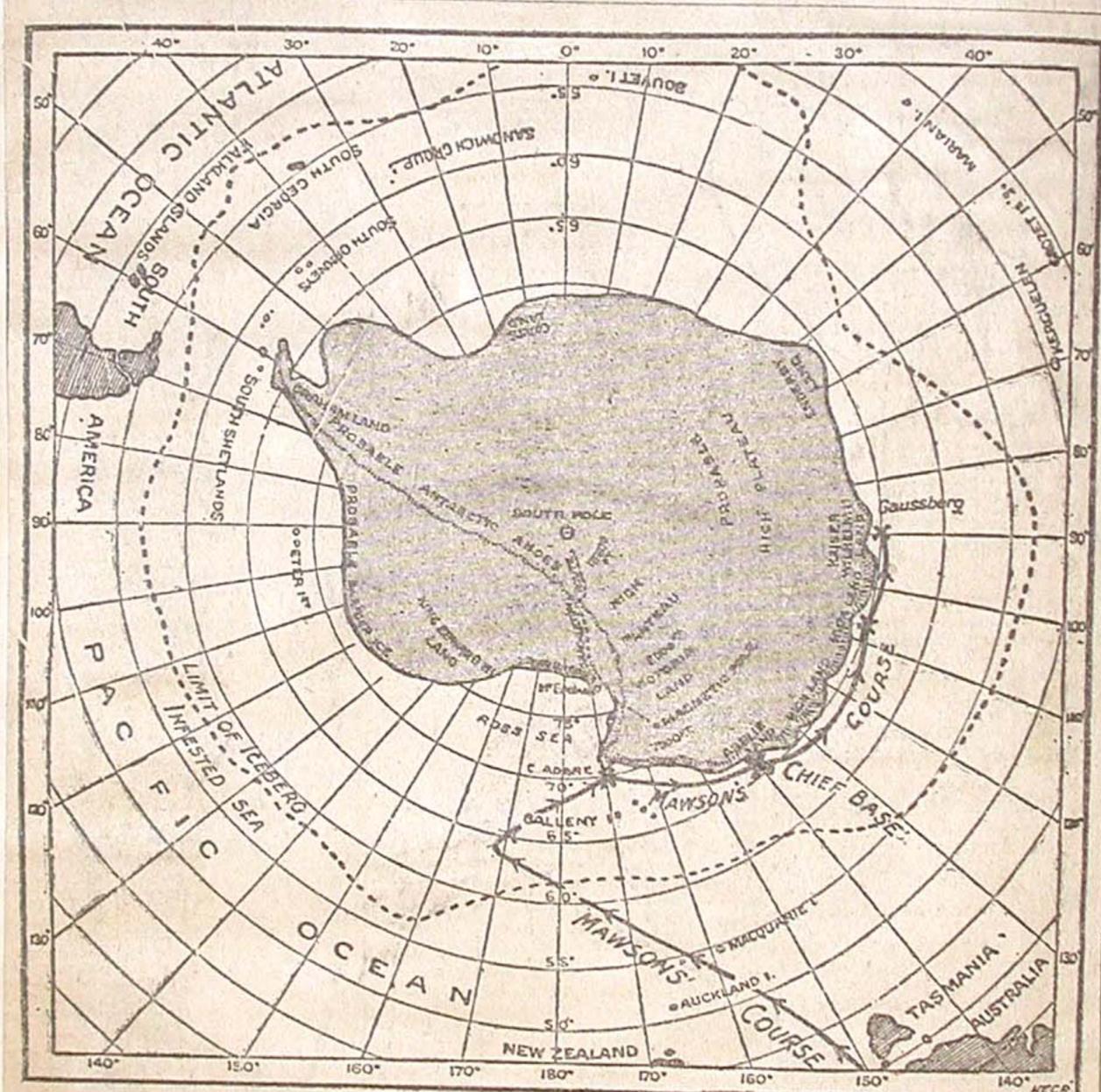
If the Mawson expedition to the south polar regions eventuates, and the expectations, prorrising enough at this stage are realized, the doings of the little party away down in the icebound latitudes are calculated to awaken and enlist public interest to an extent unparalleled in previous exploration. All that have preceded it have, after leaving civilization and dipping below the horizon, been lost to the knowledge of the world during the long months and even years that clapsed ere they returned. But, subject to the qualification in the opening sentence, Dr. Mawson will daily place himself into communication with Australia throughout the 18 months or more that he expects to be tion is hadly needed.

tudes; but the wireless will enable us to correct our chronometers daily with the Australian observatories. Another obvious advantage is that in exploring unknown areas the exact course to be pursued cannot be laid down beforehand. an accident happened, such as the crushing or the freezing in of the ship, relief expeditions would find great difficulty in locating it. That occurred in the case of Franklin in the north polar regions. For many years numbers of relief vessels scoured the arctic seas, but did not succeed in locating the disaster until long after all the members of the expedition had perished. With the wireless system, however, we could advise Australia of our whereabouts, and if anything untoward happened we could send word 'Ship crushed in a certain longitude: hope to reach land in winter; send ship to that locality.' There are other enormous advantages. Having communication between the smaller stations on either side of our chief base, we would be able to make simultaneous observations of all the altitudes of particular auroral ares. Such angular simultaneous observations from two distinet stations would give a ready means to calculate the height of the are above the earth's surface, on which subject informa-

map. Bouvet Island was eventually rediscovered and restored to the charts; so perhaps we will be able to clear up the uncertainty regarding the Royal Companies' Islands.

## -Forty Patriots at £1,000,-

"The Science Association unanimously voted £1,000 towards this enterprise, and appointed a committee, consisting of 25 leading scientists in Australia to further the project, both financially and in the conduct of scientific work. A sum of £40,000 will be required, and we are making an offort to raise the money by donations of £1,000 cach from prominent Australians. Surely it will be possible, among our patriotic and generous citizens, to find 40 such in the Commonwealth. In South Australia Mr. R. Barr Smith has subscribed his name as one of the helpers, and I hope that others will come forward, and so keep up the end of this State. So far about £6,000 has been promised. The Commonwealth Government can be relied upon to take a solid interest in this big history-building work, and, if necessary, it will also lend financial support. Professor Orme Masson, of the University of Melbourne, is Chairman of the committee, and reference



## ANTARCTICA SHOWING THE ROUTE PROPOSED TO BE FOLLOWED BY DR. MAWSON.

THE CROSSES INDICATE WHERE DR. MAWSON PROPOSES TO ESTABLISH BASES FOR SLEDGE PARTIES.

absent. Science has come to the aid of science. Wireless telegraphy will perform the muracle.

## -Daily Reports to the Press .-

"It is a feature emirely new to polar exploration," said Dr. Mawson in the intend to have the wireless equipment at Cape Adare, and, with the change of wind doned, and I shall go south in charge of a any cost, because so much can be done there, head towards Kaiser Wilhelm II. British expedition, money for which has with the aid of such plant, which other Land, establishing our stations en route, already been promised. It would not do with the aid of such plant, which other-wise would be impossible. We anticipate that special duity reports will be tratismitted to the Austraban newspapers. A private body has offered to fully equip the expedition with wireless instruments and hold itself responsable for the transmission and receipt of the messages.

#### -Advantages of "Wireless,"-

"To instance the advantages of wireless communication, we will be able to send advices regarding the weather conditions in the amtarctic, and so assist the Commonwealth meteorological staff in the preparation of their predictions. I may also mention the simplicity which would follow the tinet volcanoes to examine, and we shall determining of longitude in respect to search for the Royal Companies' Islands. which great precision of time is necessary. These, like the Bouvet Island, were dis- were a scramble for the great southern cor Great difficulty is experienced with primary covered, and when searched for later could timent, this would be the first section observations of the stars in the higher lating not be found, and were wiped off of the be snapped up."

-Work of the Expedition .-"My idea at present is to leave in No- mittees get to work. vember or December next. We would call at Melbourne and Sydney, and finally at Hobart to replenish bunkers. Then, base there will be a resident party during the summer to make regular observations. ground sledging parties will be sent in both directions from each station. Thus in each section there will be two parties working towards each other. We shall also send a party to the magnetic pole, only from the opposite direction from which Shackleton's men approached it. There is plenty of work to do. There are active and ex-

should be made to him until the local com-

-Australia On Its Mettle.-"I will proceed to London in about a taking advantage of the prevailing wester- week's time. If, shortly after my arrival lies, we would make a long leg down the there, the £40,000 is not guaranteed, the course of an interview on Thursday. "We roaring 40's and screeching 50's towards Australian expedition will have to be aban-We must take advantage of the wind to to let this project rest for a season, for of sconomise with coal. The expedition will all the antarctic continent there is no part comprise 24 sledging men, who will be which bolds for a such advantages as does divided into eight parties. At the chief the area we are going to explore, and the area we are going to explore, and foreign nations may step in at any time. This portion of the antarctic lying between We want to explore the highland belt for Cape Adare and Kaiser Wilhelm II. Land a distance of 2,400 miles. To cover the is known as the Australian quadrant. The others are called the African, South American, and Pacific Quadrants. The Australian Quadrant, consisting of unexplored highlands, lies due south of this continent, and is the best of all. It is not as far distant from Hobart as is Perth from Melbourne-just a few days' sail-and it may in the near future prove a source of great national wealth to Australia. Therefore it should not be overlooked. If there