VOYAGES OF THE DISCOVERY

PREPARING FOR NEXT TRIP

Sydney, June 5. Sir Douglas Mawson, who arrived from Brisbane to-day, said that the examination of the hull of the Discovery at Melbourne showed that it was in good order.

Until the end of October, added Sir Douglas, he would be busy supervising the arrival of scientific apparatus from overseas and collecting stores. It was hoped to leave Hobart early in November. The regions to be covered on the next expedition would be those lying directly south of Australia and east of those covered on the last exeast of those covered on the last ex-

SPECIMENS FROM THE ANTARCTIC

Adelaide Member of Mawson Expedition Returns

"Of the several tons of specimens collected by the Mawson expedition, many will come to Adelaide for biological research purposes, and many others will be sent to the British Museum, said Mr. A. L. Kennedy who was a member of the expedition, on his re-turn by the Melbourne express yester-

Mr. Kennedy disembarked at Hobort, and left immediately for Melbourae. He said the Discovery's early return was largely due to unusually strong westerly winds, which greatly assisted the vessel. It was estimated that the return trip would take about 40 days but the strong following winds reduced the time to 28 days. On the course between Hobart and Melbourne toe Discovery would continue dredging operations for sperimens.

ANTARCTIC EXPLORATION

Tribute to Sir Douglas Mawson

PROF. JOHNSTON RETURNS

"Few persons can realise the enormous amount of careful thought and attention necessary to equip and finance a scientific expedition to the Antarctic," said Prof. T. Harvey Johnston, a member of the Mawson expedition, who returned to Adelaide by the express from Melbourne this morning.

Prof. Johnston paid a glowing tribute to Sir Douglas Mawson as a leader. Everything required was on the ship when the Discovery left.

Members of the expedition were a happy family, he added. Without the assistance



Prof. Johnston said that it was not nearly as satisfactory as that during the previous trip. There were more storms and fewer bright days, Ice Prof. Johnston conditions also were

more difficult. However, the party was able to spend more time in the Antaretic regions and a more extensive area war

traversed. Prof. Johnston, who was entrusted with the collection, preservation, and storage of all plant and animal life obtained on land and ses, added that many hundreds the committee of the expedition decided of boxes of material had been brought its distribution for detailed study.

previous expedition. shortly, where it would be housed until and birds, he concluded.

MAGNETIC POLE MOVES

YEARS

OBSERVATIONS IN THE ANTARCTIC

Canberra, January 8, "We have just embarked after two days ashore on King George V. Land, during which period excellent weather prevailed," telegraphs Sir Douglas Mawson from the Discovery.

"After escaping several days ago from the grinding edge of the pack," message states, "the Disthe covery very slowly progressed in face of the gale east across Dunville Sea, arriving off Cape Denicon at noon on January 4. Three anxious hours elapsed before the anchor was safely dropped, owing to the difficulty experienced in manoeuvring in-shore in face of a fierce gale. About 9 o'clock on the morning of January 5 the weather moderated sufficiently to allow a party to go ashore.

King George V. Land

"The hut where I raised the flag 20 years ago still stands, although it is greatly weather worn. The interior of the hut is largely choked by an extraordinary development of large spongy masses of ice-crystal plants which, on being touched, fall to the floor. The outside exposed wood of the hut and all wooden objects were found to be deeply scored by snow blast, resulting in hard and soft tissues standing in singular relief. Fully exposed oregon boards have been thus reduced in thickness, owing to snow abrasion, in 20 years, by quite half an inch. wireless masts have fallen in shattered fragments. The astronomic and magnetic huts still stand, and in one of the latter Mr. Kennedy made 24 hours' continuous observations which, by comparison with the determinations made on the same spot in 1912, indicate that the magnetic pole has in the interval moved about 100 miles closer than formerly, and probably it is now distant only about two hundred miles to the S.S.E.

Compasses Useless

"Indeed, we are so near the south magnetic pole that ships' compasses are almost useless.

"Brilliant, clear weather gave ideal conditions for Mr. Simmers to make a useful series of measurements of the sun and sky radiations which, in this intensely clear and dry atmosphere, have a special value. Whilst work was thus in progress in every department of observation, we all met together for a brief period at noon on January 5, and officially hoisted the British flag over the territory of King George V. Land and its extension as part of Oates Land -an area embraced between the meridians 140 and 160 east. This impressive ceremony terminated with cheers, and the singing of 'God Save the King."

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BOTTLE WITH MESSAGE

Dropped From Discovery, Drifts 1,000 Miles In Nine Months

A boitle, containing a message, thrown overboard from the Discovery on the return of Sir Douglas Mawson's expedition from the Antarctic, has been recovered from the sea about five miles off the coast near Robe, The message said:-"This bottle was thrown overboard from the Discovery, Capt. J. K. Davis, in lattitude 35.02 S. Longitude 119.37 E., on March 21, 1930, by the second officer (W. R. Celbeck)., The finder was asked to send the paper to the Meteorological Office, Air Minstry, London.

On the date mentioned the Discovery was about 100 miles east of Albany. The bottle drifted east about 1,000 miles during nine monting.

Some had been forwarded to the Much material was obtained from the British Museum for study by Mr. J. W. Antarctic, sub Antarctic, and off the coast Marr, zoologist, who was a member of the of Tasmania, where dredging and trawling was undertaken in comparatively Other samples had been sent to New shallow waters. As in the previous trip, Zealand for examination by Mr. R. much attention was paid to minute sea Falla, he continued. Bulk of the collectife, which formed the basis of higher tion, however, would come to Adelaide oceanic life, such as whale, scals, fish,

SMALL FISH KILLED BY COLD

Mawson Finds Big Ice-Locked Sea

(By wireless from Sir Douglas Mawson on the Discourse through an area of sheh pack into a fine open sea we went south and in the shelter of an enormous tabular berg the aeroplane was got up and further recographic observations made. A marine station was run from the ship. We were then in an extensive region of shallow sea ranging from 100 to 250 fathoms in depth.

Here the water is uniformly cold Howard

Here the water is uniformly cold, Howard found the bottom water the coldest yet re-corded by this expedition-28,30 degrees Fahr. Many small fish floated past the ship dead, apparently frozen.

Hurley sculled a boat into some remarkable grotto formations sculptured in grounded bergs and obtained some striking photographic records,

WHERE BERGS ARE BORN

The land ice slopes seen from the aeroplane are entirely covered by icc. This inland icc sheet was observed to reach an elevation of 4,000 feet at no great distance inland, From such heights it descends in a series of undulations. Finally at sea level it is fringed for the most part by horizontally disposed floating extensions which advance several miles over the waters before truncation by

periodic calving of tabular bergs.

The existence of this ice-locked sea extending to beyond the 69th degree latitude is an

interesting discovery.

The air is much cooler lately, being usually below 20 degrees Fahr., and as low as 3 degrees Fahr, has been recorded by the acromane. Today we have been steaming north to resume the delayed charting of Mac-

robertson land coast further to the west. All rights reserved. Publication without perseas strictly farhidden.

DISCOVERY'S NEXT EXPEDITION

COMMITTEE TO MEET

SIR DOUGLAS MAWSON

Sir Douglas Mawson (leader of the Australian Antarctic Expedition), returned to Adelaide from Melbourne yesterday.

He stated that he hoped the Federal Government would be able to find it unnecessary to override the arrangements made by the former Government with reference to the proposed second trip of the Discovery to the Antarctic. There would be a meeting of the expedition committee at the end of April, in Melbourne, and it was hoped that by then definite information would be available from the Government.

Until that meeting the Discovery would remain at Melbourne. After the meeting it was probable that the vessel would go to Sydney, where it would be in the care of the Royal Australian Navy.

A number of firms who had supplied food and equipment for the recent trip had offered their assistance for the proposed second trip.

MOVEMENT OF MAGNETIC POLE

VALUE OF OBSERVATIONS IN ANTARCTIC

pole had moved northward about 100 miles since 1912, confirm the observations made at the Adelaide Observatory, stated the Government Astronomer (Mr. G. F. Dodwell) yesterday.

were cyclical in their movement. At reason did not affect the compass reconnaissance reveals an absence of open variation very much. The principal water between the pack and coast, difference caused by the present movement was in the magnetic inclination, or depth, which had been increasing at the rate of one minute of arc per year. The experience of the expedition confirmed this.

The magnetic pole in the Antarctic would not continue to move northward indefinitely. It would gradually move round westward again, and in a few hundred years would be travelling southward. There need be no fear that the movement of the magnetic poles would cause navigators to run their ships aground through taking wrong bearings. The Admiralty charts recorded the movements to be made by the poles, and these facts taken into account when observations were made. The information obtained by the expedition would be of great value, added Mr. Dodwell, in checking

the information on these charte. DISCOVERY

TO ANTARCTIC

Plans for 1931

Melbourne, April 15. It is almost certain that the Mawson Antarctic Research Expedition will return to the Antarctic regions next summer in the Discovery from Hobart,

The Prime Minister (Mr. Scullin) sald to-day that a second programme for the expedition was being considered favorably by the Federal Ministry. The expedition committee would meet on April 28 to complete report for presentation to hun. He hoped to make a statement on the future of the expedition when Parliament reassembled after Easter.

The Discovery, which was the only sintable vessel available in the southern hemisphere for the expedition, had been lent by the British Government for two years, he said.

Sir Douglas Mawson (leader of the Australian and New Zealand Antarctic Expedition) returned on Wednesday from Melbourne, where he attended a meeting of the expedition committee. They discussed the proposed second cruise of the Discovery to the south, which will probably begin in Novem-

per.

PLANES OF GREAT VALUE TO MAWSON

The observations made by Mr. Ken-nedy with the Mawson Antarctic Ex-Could Not Plot Coastline pedition at King George V. Land. which showed that the south magnetic

PACK ICE BARRIER

(Wireless message dated January 17 from Sir The magnetic poles, he explained Douglas Mawson on board the Discovery.

A wide belt of heavy tight pack ice to the moving northward almost along a south effectually prevents the Discovery meridian of longitude, and for this from pressing in to the land shelf. Aerial

For days we have followed west along the margin of this field of ice, the like of which in its enormous breadth and extent was not met with by the two former expeditions which visited this locality. Without an aeroplane we would be absolutely foiled in our endeavour to delineate the coast line. With its assistance, on fine clear occasions, we are able to check the location of the coastline as suggested by soundings and the set of the pack. We have thus been able roughly to indicate the apparent approximate position of the continental margin westward to meridian 121,

ICE STOPS SHIP On the fifteenth Campbell and Oom from the plane sighted a land margin on the far southern horizon to the south-west from lati-tude 66 longitude 127. Further to the west on the sixteenth Douglas and Oom again sighted land extending approximately east and west, located on meridian 122 and a little to the north of latitude 67 Last evening the Discovery attempted to push to the south through the pack but had to abandon the effort after few minutes because of the heavy nature of the ice The weather is holding fine and the ship in continuing west.

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DISCOVERY IN DOCK FOR OVERHAUL

Oaken Ship As Stout As Ever

MELBOURNE, Monday.-Perched high above the concrete floor of the dry dock at Williamstown, the exploration ship Discovery is sunning herself before the sallors tar her hull. The barnneles have been scraped off her.

It is the first time in a year that the skip has been overhauled in dry dock. She was in London on the last occasion.

Twenty seamen, floating in long red pouts, slung from the vessel's side, had scraped and scrubbed the famous caken hull when all the water had been pumped out.

Captain J. K. Davis, who has sailed the Discovery safely through many icefields, stood on the floor of the dock today, evenny the ship affectionately,

NEW CAPTAIN

Captain W. Mackenzie, her new master, who will take her over from Captain Davis, when in ten days' time she comes out of dry dock and ties up at Port Melbourne, stood there

Sheets of atool are on the bow to smark ice parks, but the whole bull is English ook of an average thickness of eighteen anches, It is as sound as ever it was,

When she is thoroughly dry the ship will be painted and tarred. In the meantime officers and crew aboard, twelve in all, are tidying up and making miner adjustments.