OF ADSLAIDE:

To

R.T.Glazebrook Esq; Sc. D F.R.S. &c.

the Colony by Director, 1988 1986. Owing, newsyst, to

National Physical Laboratory.

chserverienal work with their until Dobersey 1994. It was

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REPORT

ON THE USE MADE OF THE MAGNETIC INSTRUMENTS LENT BY THE KEW OBSERVATORY COMMITTEE TO THE NEW ZEALAND GOVERNMENT.

By C. Coleridge Farr B. Sc. &c.

distributed by the pressure of magnetic roses, and it was also desired that the chaervetory about he as far Bouth is possible.

-sible. Quided by these considerations are desired for the was weden of the districts surhounding invercergit. Therefore, the districts surhounding invercergit. Therefore, the districts surhounding invercergit. Therefore made in the fact of bount 20 wiles between these places, and to the fact of invercergit to orapet. These observantions to weeked the presence of Entending Species distributions in the neighbourhood of invercential. Desires and Nelson, while

to the Equipment of the section of

THE MAGNETIC OBSERVATORY

SITE

The instruments lent by the Kew Committee were bgought into the Colony by myself in November 1898. Owing, however, to trie in the tree attach of the volumes billion that various circumstances, it was impossible to commence actual observational work with them until February 1899. In the grown of the transfer of the contract of decided first to ascertain a suitable site for the magnetic Andrew and the district forth of it sides follows for its in the observatory and then with the observatory as a base station ernditions, the litherefore decided to seemal in the second to carry out as complete a magnetic survey of the Colony as From a magnetic point of view an observatory of ed calledge for the particular later in the fill with the this kind should be placed in a position where conditions are not disturbed by the presence of magnetic rocks, and it was also tion access and Edge Late Same's And Alexandra Same Statement desired that the observatory should be as far South as posthese by thing equilateral transpla them with the Millian Guided by these considerations an examination was made of the districts surrounding Invercargill, Dunedin, Christchurch and Nelson, while observations were also made at intervals of about 20 miles between these places, and to research and the following the West of Invercargill to Orepuki. These observations re--vealed the presence of extensive magnetic disturbances in the neighbourhood of Invercargill, Dunedin and Melson, while to the South of christehurch, although the surface formation which has been penetrated by artesian wells to a depth of over

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material, yet a marked magnetic irregularity, which further examination may show to be of a defined character, manifests itself. At Christchurch the conditions are normal though it is true that the effect of the volcanic hills which forms Banks Peninsula is felt as one approaches more nearly to them.

church and the district North of it alone fulfilled the necessary conditions, and I therefore decided to examine in greater detail a site in the Christchurch Botanic Cardens which seemed suitable for the purposes I had in view. With this object, I selected spots which seemed suitable for the Variation house and Absolute house and also another forming with these a rough equilateral triangle whose side is about fifty yards. At each of these three days complete observations were taken and also a set of quasi-simultaneous observations of the Declination and the Horizontal force. The results are set out in full below.