H.

COOK AND NORTHERN ISLANDS.—ESTIMATED REVENUE FOR THE YEAR ENDING 31ST MARCH, 1907.	

							£	s.	d.
Customs							3,500	0	0
Trade licenses	·						320	0	0
Stamps	• • •	• •					200	0	0
High Court fees	3	•••	• • • •			• • •	100	0	0
R.M. Courts, fee	es			• • •			100	0	Õ
Arikis Courts, f	ees	•••			•••	***	100	ŏ	ŏ
Land Titles Cou			•••				450	ŏ	Õ
Rents		•		• • • •	***	• • •	100	ŏ	0
Miscellaneous	• • •	•••	• · ·	•••	•••	•••	200	0	0
Misocitaticous	•••	•••	•••	• • •	• • • •	•••	200	U	U
						-	05 070		0
						J	£5,070 0		

W. E. Gudgeon, Resident Commissioner.

Sir,—

Survey Department, Rarotonga, 9th April, 1906.

I have the honour to submit my report for the year ending the 31st March, 1906, on the general survey of the islands of the Cook Group.

ISLANDS VISITED.

During the year, besides Rarotonga we visited for surveying purposes the Islands of Takutea and Rakahanga. Most of the surveying during the year has been done in Rarotonga. I have already reported on Takutea.

LAND TITLES COURT WORK.

The amount of surveying-work done for the Land Titles Court is shown in the Registrar's report.

STANDARD SURVEYS.

The standard survey has now been completed round Rarotonga, and permanent concrete blocks have been placed at about every 20 chains on the inland side of the main road round the island; also on the Ara Metua or inland road, and on the roads of some of the valleys. We also surveyed and completed the coast-line of the islands of Takutea and Rakahanga.

We have now 160 co-ordinated concrete stations on Rarotonga.

LATITUDES AND LONGITUDES.

The latitudes and longitudes of the Cook Islands published under Notice to Mariners, No. 75 of 1904, in the Government *Gazette* seem still somewhat in error for several of the islands. The following I consider the best values as far as I can gather at present:—

		South.			Longitude West.				
Rarotonga: Avarua A, concrete block in front of Governmen	t offices	21	11	57	159	46	10		
Aitutaki: Arutanga A, concrete block in front of Governmen	t offices	18	52	30	159	46	30		
Manuae: North-west Landing		19	17	0	158	56	0		
Takutea: Concrete block on beach at the North-west Landing		19	4 8	35	158	18	0		
Atiu: Taunganui Landing, at the north-west end of the islan	ıd	19	58	0	158	9	0		
Mitiaro: Omotu Landing, at the north-west end of the island	l	19	50	0	157	$\bf 42$	0		
Mauke: Tanganui Landing, at the north-west end of the isla	nd	20	7	0	157	22	0		
Mangaia: Oneroa Landing		21	54	0	157	58			
Penrhyn: Omoka Church		9	1	30	158	2	0		
Palmerston: Tokotea Landing		18	2	0	163	10	0		
Rakahanga: A, concrete block at the junction of the main road and									
entrance road to church		10	2	36	161	6	0		
Manihiki: Tauhunu—Tauhunu Landing, flagstaff	• • •	10	26	0	161	1	0		
Suwarrow: Landing-place		13	15	0	163	5	0		
Nassau Island	• • • •	11	35	0	165	28	0		
Pukapuka (Danger)		10	52	0	165	57	0		
Tema Reef	• • •	11	7	0	165	35	0		

During the year I checked the latitudes of Takutea and Rakahanga. The latitude of \triangle , Takutea, a concrete block on the beach at the North-west Landing: From the mean of seven star and three sun observations I make the latitude south 19° 48′ 35″.

and three sun observations I make the latitude south 19° 48′ 35″.

Rakahanga, Λ , concrete block at the junction of the main road and entrance road to church:

From the mean of six star observations I make the latitude of Λ south 10° 2′ 36″.

We have now a good chronometer, and at each island we now visit we shall check the longitude, taking Λ , Rarotonga, as 10 hours 39 minutes 5 seconds west of Greenwich.