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A.G. Findlay

Frontmatter

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A Directory for the Navigation of the Pacific Ocean, with Descriptions of its Coasts, Islands, etc.

The English geographer and hydrographer Alexander George Findlay (1812–75) had observed that navigators of his time had to consult a considerable number of documents to gather the information they needed to sail the Pacific Ocean safely. Not only was this highly impractical, it also exposed seafarers to conflicting information that could lead to their demise. First published in 1851, this two-volume nautical directory, compiled by Findlay from reputable sources, provided seamen with a single comprehensive and authoritative reference work. This second volume focuses on navigating the islands and archipelagos of the Pacific and also contains detailed information on the winds, currents, tides and other physical phenomena of the Pacific, as well as general sailing directions. An invaluable resource for navigators of the nineteenth century, this work remains of great interest to geographers and scholars of nautical history.

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VOLUME 2

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A D I R E C T O R Y
FOR THE
NAVIGATION
OF THE
P A C I F I C O C E A N ;
WITH DESCRIPTIONS OF ITS
COASTS, ISLANDS, ETC.,
FROM THE
STRAIT OF MAGALHAENS TO THE ARCTIC SEA,
AND THOSE OF
ASIA AND AUSTRALIA ;
ITS WINDS, CURRENTS, AND OTHER PHENOMENA.

IN TWO PARTS.

BY ALEXANDER G. FINDLAY,
FELLOW OF THE ROYAL GEOGRAPHICAL SOCIETY.

—◆—
P A R T I I .
THE ISLANDS, ETC., OF THE PACIFIC OCEAN.



L O N D O N :
PRINTED FOR R. H. LAURIE,
CHART-SELLER TO THE ADMIRALTY, THE HON. CORPORATION OF TRINITY-HOUSE, ETC.,
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ERRATA TO PART II.

- Page 680, line 46, *for* “ miles,” *read* “ inches.”
,, 712, ,, 8, *for* “ *Cavallos*,” *read* “ *Cavalles*.”
,, 806, ,, 1, *for* “ N.,” *read* “ S.”
,, 830, ,, 28, *for* “ *Ponebo*,” *read* “ *Pouebo*.”
,, 855, ,, 7, *for* “ lat. 31°,” *read* “ 21°.”
,, 859, ,, 23, *for* “ lon. 148°,” *read* “ 138°.”
,, 871, ,, 7, *for* “ Capt. Palliser,” *read* “ Sir Edward Palliser.”
,, 896, ,, 31, *for* “ lon. E.,” *read* “ W.”
,, 949, ,, 27, *for* “ East,” *read* “ West.”
,, 1020, ,, 16, *for* “ lon. 152° 5' 54",” *read* “ 152° 45' 54",”
,, 1023, ,, 37, *for* “ 14° 8' to 15° 9',” *read* “ 1° 48' to 1° 59'.”
,, 1087, ,, 37, *for* “ lon. 153° 38',” *read* “ 153° 58'.”
,, 1252, ,, 2, *for* “ *Kuro Sirvo*,” *read* “ *Kuro Siwoo*.”
,, 1279, ,, last sentence but one, *for* “ *East* and *West*,” *read* “ *West* and *East*.”
,, 1318, ,, 21, *for* “ E N.N.,” *read* “ E.N.E.”

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INTRODUCTION.

THE present volume, forming the second part of the Nautical Description of the Pacific, differs in its character from the first chiefly in being confined to accounts of the islands and archipelagoes which are scattered over the space between the Old and New Worlds.

In the Introduction to the first part we have given a brief enumeration of the principal authorities upon which the authenticity of our book rests. It is unnecessary to allude to this further here, the more especially as the subsequent pages will show that the original works are carefully quoted for each article. And the reader will be able to judge as to the degree of dependence, necessarily very various, which each account may claim.

But there is one broad distinction, generally, in the geographical portion of the two volumes. In the former, great extent of coasts, as the whole of South America and a large portion of the Northern Continent, have been well surveyed and amply described, so that there is little room for scientific improvement by isolated observations of the commander with limited means. In the present, on the other hand, there is ample scope for the observations and discovery of every one. Although many portions of the groups, and in some cases entire archipelagoes, are tolerably surveyed and described, still most of the isolated spots of land and detached shoals require to be much better known; and very great extent of ocean must be more closely examined before the ship-master can traverse the Pacific Ocean with confidence—either that the known dangers are correctly placed, or that innumerable lurking but undiscovered dangers may not be encountered. The attention of every one into whose power it may fall to give information to the world for the benefit and safety of the mariner, is hereby most earnestly recommended.

One important part of Pacific hydrography is the relative value of the positions assigned to the various points as detailed in the ensuing tables. Now, there is every evidence that much remains to be done in this, before the same connected accuracy will be found that exists in the geography of other portions of the globe. Many of the regions of the great ocean are now delineated from the observations of their first discoverers, without any of the amendment in respect of situation which repeated observation necessarily produces. This appears more particularly to be the case in the western portion of the Pacific, where there is abundant room for improvement.

The work itself will give all the details respecting our present knowledge of each portion of the Pacific Islands, and the following Table of Positions gives the authorities upon which each item of the latitudes and longitudes rests. But it will be seen that from its very nature it can be by no means perfect. And even with the materials we have at present at command, there is little doubt but that some improvement might be effected by verifying and adjusting the varied estimates formed by different navigators. In other parts of the world much has been done in this field by Lieutenant Raper. Here the principal labourer, indeed it might be said the only one hitherto, is the great hydrographer Admiral Krusenstern. His invaluable work, as has been already stated in the introductory portion of the previous volume, is the labour of many years in reconciling the discordant materials which have composed the sum of the geography of the Pacific. It may be stated that the determinations of Admiral Krusenstern have been generally followed here, except when later observations entitled to more confidence have superseded the former. This will be found to be the case in very numerous instances.

This brings us to another point which has been alluded to in the previous volume, but for the sake of convenience we will repeat the substance of what is there stated, as the remarks are still more applicable to the tables which follow this, than to the longitudes of the points of the continental boundaries of the Pacific.

The latitude of a place is found with much greater accuracy and simplicity than its longitude, and therefore but little need be said on that point; but the longitude of places whose meridians are so wide apart as in the Pacific, the accurate determination of longitude becomes a complex and difficult question. We need not dilate now on the uncertainty of the longitude determined by astronomical observations alone, except in the long series which have been made in the fixed or temporary observatories established in a few places. Even they have been found to be open to doubt to the extent of several minutes, and in perhaps only one instance—that of Paramatta, in New South Wales—is the longitude accurately and unimpuably ascertained.

But there is one mode, more especially insisted on by Lieutenant Raper, to whom so much is owing, by which it is almost in the power of any one possessing a good chronometer to verify or improve his predecessors' determinations. This is to connect any new or less known point with one *better* ascertained, whether the latter be absolutely correct or not. "The question would thus be narrowed into the determination of *chronometric differences* alone, until a favourable opportunity occurred for the definitive determination of a fundamental position." Any improvement which is made in this primary point must, therefore, be extended to all those dependent on it. With this view Lieutenant Raper has selected twenty points in various parts of the globe, to serve as secondary meridians for the districts in their vicinity. *Five* of these refer to the Pacific. And as uniformity is in every way desirable, we have taken Lieutenant Raper's determinations as the groundwork; and, in addition to those he has chosen, several other points have been proposed in the first volume for the same purpose in the Pacific, and are as follow:—

	In time. H.M. S.	In arc.
STRAIT OF MAGALHAENS: Port Famine		
Observatory	4 43 51·7	70 57 55 W. (FitzRoy.)
VALPARAISO: Fort San Antonio	4 46 46	71 41 30 W. (FitzRoy.)
CALLAO: Arsenal flagstaff	5 8 54	77 13 30 W. (FitzRoy.)
PANAMA': N.E. Bastion	5 18 48	79 31 12 W. (Belcher.)
SAN FRANCISCO: Yerba Buena Cove	8 9 36	122 24 0 W. (Beechey.)
SITKA: Arsenal Light	9 1 8·7	135 17 10 W.
AWATSKA BAY: Petropaulovski Church	11 14 54	168 43 30 E. (Beechey.)
SANDWICH ISLANDS: Honolulu Fort	10 31 40	157 55 0 W. (Raper.)
LADRONE ISLANDS: Guam, Umata Bay		
Church	9 38 36	144 39 0 E. (D'Urville)
NEW GUINEA: Port Dorei	8 55 59·47	133 59 52 E. (D'Urville.)
FEEJEE ISLANDS: Ovalau Island, Levuka		
Harbour, Observatory Point	11 55 30·7	178 52 41 E. (Wilkes.)
TAHITI: Point Venus, S.E. extreme	9 7 56·7	149 29 1 W. (Beechey.)
NEW ZEALAND: Bay of Islands, Paheha		
Mission	11 36 28	174 7 0 E. (La Place, &c.)
SYDNEY: Fort Macquarie	10 4 56	151 14 0 E.

In the future determination of longitude by chronometer, it is hoped that the meridian and particulars of the original station may be stated, and thus remove much of the vagueness which too often attends the records of what may be otherwise excellent determinations.

T A B L E
OF
POSITIONS, TIDES, MAGNETIC VARIATIONS, &c.

PART II.

XX. — SOUTH SHETLAND AND ANTARCTIC LANDS.	Lat. South.	Lon. West.	Authority.	Var. East.	H. W.	Range.	Page.
	° ' "	° ' "		°	H. M.	FT.	
LAURIE ISLAND; Cape Dundas .	60 54 0	44 57 0	D'Urville.	0			658
Saddle Island; W. peak, 1,643 ft.	60 43 0	45 10 0	Weddell.				658
Coronation Island; E. summit .	60 46 0	45 53 0					658
" " P. Conception	60 32 30	45 57 0	D'Urville.				658
Inaccessible Island; middle .	60 42 0	47 13 0	"				—
Cornwallis Island .	61 4 0	54 28 0	"				—
Elephant Island; E. summit .	61 6 0	54 45 0	"				—
" " S. peak .	61 15 0	54 51 26	"				—
O'Brien Island .	61 32 0	55 52 0	"				—
Bridgeman Island .	62 4 0	56 40 0	Weddell.				662
King George Island; C. Melville	62 2 0	57 30 0	"				—
Livingston Island; Cape Sheriff .	62 28 0	60 28 0	"				662
Deception I.; Pt. Foster, Mt. Pond	62 56 36	60 35 0	Foster.				660
Smith Island; Mount Foster .	63 2 0	62 47 0	"				657
William Rock .	63 17 0	63 0 0	"				—
Hoseason Island; Cape Possession	63 45 0	61 50 0	"				657
Mount William .	64 45 0	63 51 0	Biscoe.				657
Biscoe's Range; Pitt Island .	65 20 0	65 40 0	"				656
Adelaide Island; centre .	67 15 0	68 15 0	"				656
L. Philippe Land; C. Roquemarel	63 30 20	58 29 16	D'Urville.				663
Astrolabe Island .	63 16 0	58 18 26	"				663
Mount D'Urville .	63 28 45	57 41 0	"				663
Dumoulin Islands; largest .	63 26 50	59 16 0	"				663
Joinville Island; Cape Purvis .	63 39 0	55 48 0	"				663
Cape Seymour .	64 13 0	56 32 0	Sir James Ross.				—
Mount Haddington .	64 12 0	58 2 0	"				—
Peter I. Island; 4,000 feet .	68 57 0	90 46 0	Bellingshausen.	36 6			663
Alexander I. Island; N. point .	68 51 0	73 9 46	"				663
Balleny Islands .	66 44 0	163 11 0	Sir James Ross.				667
VICTORIA LAND; Mount Sabine,							
10,000 feet .	71 42 0	169 55 0	"				668
" " Cape Adair .	71 18 0	170 45 0	"				669
" " Mt. Dalmeny .	71 5 0	167 8 0	"	44 0			669
" " Possession Id.	71 56 0	171 7 0	"				670
" " Franklin Isld.	78 6 0	168 12 0	"				672
" " Mount Erebus	77 33 0	166 58 0	"				672
" " S. Magn. Pole	76 0 0	145 20 0	"				672
ANTARCTIC LANDS; Disappoint-							
ment Bay .	67 4 30	147 30 0	Wilkes.				673
" Piner's Bay .	66 45 0	140 2 30	"				673
" Adelie Land; C. Robert	66 21 15	133 15 30	D'Urville.				674
" " C. Pepin .	66 29 15	134 7 0	"				674
" " Pt. Geology .	66 34 35	135 39 30	"				674
" " C. Discovery	66 35 48	136 29 0	"				674
" " C. Jules .	66 37 0	136 5 0	"				674
" Clarie Coast .	64 31 0	128 23 30	"				675
" Sabine Land .	65 20 0	121 8 0	Balleny.	West.			675
" Knox's High Land .	66 0 0	106 18 42	Wilkes.	57 5			675

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x TABLE OF POSITIONS,

	Lat. South.	Lon. East.	Authority.	Var. East.	H. W.	Range.	Page.
					H. M.	FT.	
Nimrod Islands(?)	56 30 0	158 30 0	Elbech, 1828.	o			678
Emerald Island(?)	57 15 0	163 0 0	Nockells, 1821.				678
Macquarie Island; S. point	54 44 0	159 49 0	Wilkes.				678
Bishop and his Clerk	55 15 0	159 0 0	Bellingshausen.				679
Judge and his Clerk	54 22 0	158 46 0	"				679
Campbell Id.; Perseverance Harb.	52 33 26	169 8 41	Sir James Ross.	17 54	12 0	43	680
AUCKLAND ISLES; Enderby Id.; }	50 32 30	166 12 34	"	17 40	12 0	3	687
" " Sarah Harb.			"				
" " " " E. pt.	50 30 0	166 19 0	"				691
" " Disappointment Id.	50 39 48	166 23 38	D'Urville.				691
" " Cape Bennet	50 51 0	166 15 0	"				691
" " Mt. Eden, 1,325 ft.	50 35 0	166 10 0	Sir James Ross.				682
" " Bristow Rock	50 19 0	166 13 0	Bristow.				691
" " S. Cape	50 56 38	166 12 4	D'Urville.				691
Antipodes Island	48 32 0	179 40 0	Krusenstern.				691
Bounty Island	47 55 0	178 26 0	Biscoe; Martyn.				691
CHATHAM ISLANDS.							
Ware Kauri, or Chatham Island;							
Point Allison	43 46 30	177 7 0	Chart by Fournier,				692
Wangaroa Bay	43 49 0	176 53 0	Dieffenbach, &c.				699
Waitangi Harbour; village	43 57 40	176 44 0	"			6	698
Point Traffic	44 1 0	176 52 0	"				—
Waka-Kaiwa Hills	44 5 40	176 48 30	"				700
Cape Evêque or Beaufort	44 7 0	176 49 0	"				700
Cape Oinga	44 4 0	176 33 30	"				700
Waikeri Port	43 46 0	176 18 0	"				700
Wakuru Island; W. point	43 41 0	176 14 0	"				695
Cape Young	43 41 0	176 47 10	"				695
Rangi-tutahi, or Two Sisters' Islets	43 33 0	177 0 0	"				701
Western Reef; W. point	43 55 0	177 13 0	"				701
Sentry, or Solitaire Reef	44 12 0	176 47 0	"				701
Rangi-haute or Pitt Island; S. pt.	44 15 0	176 50 0	"				701
Pyramid	44 20 0	176 29 0	"				701
Star Quay Reef	44 12 0	176 8 0	"				701
Bertier Rock	43 54 0	176 12 0	"				701
XXI.—NEW ZEALAND.							
Three Kings, or Manawa Tawi;							
principal	34 13 0	172 10 0	(FitzRoy.)				706
Cape Maria Van Diemen	34 27 0	172 36 0	D'Urville.				707
Cape Otou, or North Cape	31 24 0	173 1 0	"				708
Parenga-renga Harbour	35 35 0	172 57 0	Charts.			10	708
Mount Camel, or Ohoura	34 49 0	173 0 0	"				709
C. Kari-Kari, or Knuckle Point	34 47 0	173 28 0	"				709
Doubtless, or Lauriston Bay;							
Refuge Cove	34 53 0	173 22 0	"	12 40			710
" " Pt. Surville	35 6 50	173 35 0	Hayes.			7	710
Mango-nui Harbour	34 55 0	173 55 0	Charts.				710
Wangaroa Bay, Peach Island	35 1 30	173 44 0	Woore, &c.	12 0	8 15	7	711
Didi-Houa Islands	34 56 0	173 50 0	Charts; Raper.				711
Cavalles, or Motou-Kawa Islands	34 58 0	173 59 0	"				712
Bay of Islands; Cape Wiwia, ...							
Tiki-Tiki, or Nine-pin	35 9 20	174 10 0	Duperrey.				712
" Paheha, or Pabia	35 16 30	174 6 20	La Place, &c.				713
" Kororariki; Kaiaro Islet	35 15 2	174 9 2	"	11 30	0 20	6½	713
Cape Rakaou, or Bret	35 10 0	174 22 0	Cook.				717
Poor Knights, or Tawiti Rabi; N.							
point	35 28 0	174 25 0	"				717
Hauraki or Shouraka Gulf; Cape							
Tewara, or Bream Head	35 50 30	174 35 0	D'Urville.	13 0			718
Wangari Harbour; Lort Point	35 51 9	174 32 10	Stokes, 1849.	14 0	7 0	5 to 9	718
Morotiri, or Hen and Chick., E. pt.	35 54 0	174 56 20	D'Urville.				718
Tiri-tiri Matangi Island; summ.	35 33 30	174 54 0	"				719
Rangi-toto Island; 920 feet	35 45 30	174 52 0	"				719
Auckland Harbour; Depot Point	36 50 5	174 50 30	Stokes.	14 0	7 5	7 to 13	721

TIDES, MAGNETIC VARIATIONS, &c. xi

	Lat. South.	Lon. East.	Authority.	Var. East.	H. W.	Range.	Page.
	° ' "	° ' "		°	H. M.	FT.	
Wai Hekeh Island; N.E. point .	36 46 0	175 13 20	D'Urville.	0			724
Waihao, or Coromandel Harbour .	36 45 40	175 23 0	Downie.				724
Cape Colville, or Moe Hao .	36 28 0	175 20 0	D'Urville.				724
Otea or Great Barrier Island ; Aiguilles Point	36 1 15	175 23 40	"				725
Shoutourou or Lit. Barrier I. ; sum.	36 11 15	175 4 0	"				726
Cuvier Island	36 26 0	175 42 0	"				727
Mercury Bay, or Witi Anga Island	36 36 0	175 43 0	Cook.				727
Aldermen Rocks	36 57 0	176 4 0	"				727
Tohoua or the Mayor Island . .	37 17 0	176 15 0	"				728
Astrolabe Reef	37 24 0	176 17 0	D'Urville.				728
Tauranga Harbour	37 37 0	176 11 0	Cook.				728
High Island	37 34 0	176 26 0	"				729
Mount Edgecumbe	38 0 0	177 2 0	"				729
Motou-Hora Island	37 51 0	177 6 0	"				729
Pubia-i. Wakadi, White, or Sulphur Island	37 33 0	177 14 0	"				729
Cape Runaway, or Te Kahu . .	37 33 0	178 8 0	"				730
East Cape, or Wai Apou . . .	37 42 0	178 39 24	D'Urville.				730
Mount Ikou Rangui	37 55 0	178 16 0	"				730
Haua-Haua, or Tolaga Bay . .	38 22 0	178 26 0	"				730
Cape Gable	38 31 0	178 26 0	Cook.				731
Taone Roa, or Poverty Bay; Young Nick's Head	38 42 0	178 1 0	"				731
Table Cape	39 7 0	178 7 0	D'Urville.				731
Tea Houra, or Portland Island .	39 23 0	177 56 0	"				732
Cape Mata-Mawi, or Kidnapper's Point	39 41 0	177 9 0	"				732
Motu Okura, or Bare Islet . .	39 51 0	177 5 0	Charts.				732
Cape Topolo-Polo, or Turnagain .	40 32 0	176 43 0	"				733
Castle Point	40 57 0	176 20 0	"				733
Point Tehouka-Kore, or Flat Point	41 9 0	176 11 0	"				733
Cape Kawa-Kawa, or Palliser .	41 37 0	175 21 0	"				733
Port Nicholson; Wellington, Pen- carrow Head	41 17 12	174 50 45	Chaffers.				738
Cape Terawiti, or Poli-wero . .	41 17 30	174 40 0	Charts.				740
Mana or Table Island; N. point .	41 6 0	174 49 0	"				740
Porirua Harbour; entrance . .	41 7 0	174 54 30	"				741
Kapiti, or Entry Island; S.W. pt.	40 51 0	174 55 0	"				741
Waikanae	40 48 0	175 8 0	"				742
Manawatu River; Pa Papangaio	40 28 0	175 8 11	Smith.			6 to 9	743
Wanganui River; mouth . . .	39 55 44	175 5 0	Dieffenbach.				744
Mount Egmont, or Pouke-e-au- pape, 8,839 feet	39 18 0	174 10 30	Stokes.				745
Cape Egmont, or Pieter Boreel C.	39 20 0	173 49 30	"				746
New Plymouth; flagstaff at land. pl.	39 3 35	174 5 31	Evans.		9 30	12	747
River Mokau	38 32 0	174 46 0	Chart.				750
Albatross Point	38 4 0	174 52 0	Cook.				750
Waingarua Harbour; Woody or S. Head	37 40 0	174 58 0	"		10 0	10	751
Wai-kato Harbour	37 20 0	174 47 0	"				753
Manukau Harbour; Nine Pin Rock	37 2 57	174 29 4	G. O. Ormsby.	13 0	9 30		755
Kaipara Harbour; N. Head . .	36 29 0	174 8 0	M'Donnell.				755
Hokianga, or Shouki-Anga; S.E. pt.	35 32 0	173 29 0	P. P. King.	12 30	9 30	10	757
Wangape, or False Hokianga .	35 14 0	173 15 0	Charts.				759
Cape Farewell	40 28 0	172 48 0	D'Urville.				760
Entry Bank; E. extreme . . .	40 37 0	173 10 0	"				760
Massacre Bay; Separation Point	40 45 30	173 5 30	"				761
Victoria Haven; Tata Island . .	40 46 0	172 59 0	Charts.				761
Torrent Bay; Jetty Point . . .	40 56 50	173 5 30	D'Urville.	14 0			761
Adéle Island; Point Jules . .	40 59 0	173 5 45	"				762
Astrolabe Road; Observ. . . .	40 58 22	173 5 0	"	14 0	8 0	12	762
Nelson; magazine on boulder bank	41 15 30	173 16 5	Stokes, 1849.	15 5	8 50	6 to 13	763
Pepin Island; N. point	41 9 30	173 28 0	D'Urville.				764
Croisilles Harbour; Pt. L'Ardet .	41 4 40	173 40 0	"				764
Current Basin; Hole in the Rk. Pt.	40 58 0	173 50 0	"				764

TABLE OF POSITIONS,

	Lat. South.	Lon. East.	Authority.	Var. East.	H. W.	Range.	Page.
	° ′ ″	° ′ ″		° ′	H. M.	FT.	
Passe des Françaises	40 55 30	173 51 45	D'Urville.	14 0	8 0	12	765
Rangitoto or D'Urville Island . }	40 44 0	173 57 0	Woore.	14 30	8 0	12	765
Port Hardy; Nelson's Monument }							
Stephens' Island	40 40 30	174 2 40	Charts.				765
Admiralty Bay; Pelorus Sd. entr.	40 58 30	174 1 0	"				766
Port Gore; Hart Point	41 1 40	174 8 0	Woore.				766
Queen Charlotte Sound; entrance	41 0 0	175 25 0	Cook.				767
" " Ship Cove	41 6 0	174 18 0	"	13 5	9 or 10	7 to 8	767
Point Jackson	40 56 30	174 23 30	Charts.	(1770)			768
Motuara Island; N. point	41 4 0	174 21 30	"				769
Arapawa Island; Cape Koumaru .	41 5 0	174 27 0	"				770
The Brothers Islands; N. islet . .	41 6 0	174 31 0	"				770
Cook's Rock; awash	41 4 30	174 32 0	"				770
Te-awa-iti	41 13 40	174 19 0	"				770
Port Underwood; N.E. pt. of entr.	41 20 15	174 10 15	Bethune.	16 0			771
Wairau River	41 27 0	174 4 0	Charts.	(1837)			772
Cape Campbell	41 40 0	174 22 4	D'Urville.				773
Kaikora or Looker's-on Bay; entr.							
of river	42 17 0	173 47 54	"				774
Banks's Peninsula; Port Cooper, }	43 36 42	172 44 18	Stokes, 1849.	17 0	3 50	4 to 7	775
or Victoria; Lyttleton; well }							
Port Levy or Albert; Toloa Head .	43 36 40	172 50 10	"				776
Pigeon B.; Wakaroa or Wakaroa P.	43 35 35	172 56 15	"				777
Banks's Peninsula, S.E. point . .	43 52 15	173 0 0	"				777
Akaroa Harbour; Obs.	43 51 9	172 59 39	D'Urville.				777
Waitangi River	44 56 0	171 1 0	Charts.				779
Waikouaiti	45 39 0	170 45 0	"				779
Otago Harb.; Tairoa, or N.E. hd. .	45 46 48	170 43 12	Kettle.				779
" " Fishery Point	45 48 45	170 49 4	D'Urville.				—
" " Dunedin	45 54 0	170 35 0	Charts.				781
Cape Saunders	45 53 45	170 50 54	D'Urville.				782
Coal Point	46 19 0	170 3 0	Charts.				782
Clutha, Molyneux, or Matou River	46 26 15	169 52 57	D'Urville.				782
The Naggetts	46 31 0	168 50 0	Charts.				783
Tautuku	46 41 0	168 33 0	"				783
The Bluff, or Bloomfield Har.; ent.	46 40 0	168 31 0	"				783
Ruabuki Id.; (Roebeck? S.W. pt.)	47 12 20	166 35 24	D'Urville.				783
New River; entrance about . . .	46 25 0	168 20 0	Charts.				783
Aparima or Jacob's River	46 20 0	168 10 0					
STEWART ISLAND, OR NEW LEINSTER;							
The Neck, or Paterson's River . .	46 58 0	168 17 0					783
Pegasus, or S. Port; Cable Isld. .	47 16 0	167 40 0					783
South Cape	47 22 0	167 31 9	D'Urville.				784
The Snares; Long Island	48 3 0	167 9 27	"				784
The Traps; N. Islet	47 27 0	167 52 0	Vancouver.				784
Middle Island continued :—Chalky							
Bay; Port Preservation	46 1 0	166 36 0	Duperrey.				785
Dusky Bay; Five Fingers Point . .	45 43 30	166 27 0	Vancouver.				785
West Cape	45 56 0	166 8 0	"				785
Break Sea Island	45 35 0	166 40 0	"				787
Cape Paterson	45 24 0	166 30 0	Charts.				—
Doubtful Harbour; Pt. February .	45 12 0	167 0 0	Bauza.				788
Caswell Bay	44 58 0	167 20 0	Charts.				788
Milford Haven	44 30 0	168 5 0	"				788
Awarua or Wakatip River; mth. .	44 21 0	168 26 0	"				788
Cascade Point	43 55 0	168 30 0	"				788
Titihia Head	43 31 0	169 55 0	Brunner.				788
Bold Head, or Paramata	42 58 0	170 58 0	"				788
Arakura or Brunner River	42 50 0	171 6 0	"				788
River Gray, or Mawhera; Miss. St.	42 31 0	171 15 0	"				788
Five Fingers Peaks	42 4 0	171 25 0	D'Urville.				788
Cape Foulwind	41 46 0	171 29 0	"				788
River Buller, or Kawatiri	41 45 0	171 40 0	Brunner.				788
Rocky Point	40 54 0	172 10 0	D'Urville.				789
South Wanganui Harbour; entr. .	40 34 0	172 37 30	"				789
Cape Farewell	40 28 0	172 48 0	"				789

TIDES, MAGNETIC VARIATIONS, &c. xiii

	Discoverer.	Lat. South.	Lon. West.	Authority.	Page.
XXII. — ISLANDS BETWEEN LATITUDES 20° & 40° SOUTH.					
Juan Fernandez; Fort Juan Bautista	Fernandez, 1563.	33 37 45	78 53 0	King.	791
Masafuera; summit	"	33 48 30	80 51 10	Du Petit Thouars.	794
St. Ambrose Island; summit	"	36 18 36	79 54 34	"	795
St. Felix Id.; sum. (Var. 14° 15' E.)	"	26 16 0	80 6 56	"	796
A Reef (?)	"	26 20 0	94 35 0	"	796
A Reef (?)	"	32 0 0	95 15 0	"	796
Sala-y-Gomez Island; (Gwyn Rock) S.E. extreme	Gomez, 1793.	26 27 46	105 20 8	Beechey.	796
Teapy, Waihu, or Easter Island	Roggewein, 1721.	27 8 46	109 24 36	"	797
Perouse Point; Cook's Bay	"	"	"	"	"
Dougherty Island	Dougherty, 1841.	59 20 0	120 20 0	Dougherty.	798
Oparo or Rapa Island	Vancouver, 1791.	27 37 40	144 15 0	Bellingshausen.	798
Nielson (Osborne, Lancaster) Reef	Stutchbury, 1827.	27 0 0	146 16 45	Stutchbury.	799
Bass Isles	Bass.	23 5 0	142 45 0	"	799
TOUBOUAI OR AUSTRAL ISLANDS.					
Ravaivai or Vavatao Island	Broughton, 1791.	23 42 0	147 11 0	Broughton.	800
A Reef	"	24 45 0	148 20 0	Hamond.	800
Toubouai Island; N. end	Cook, 1777.	23 22 10	149 23 57	Bethune.	800
Oheteroah, or Rouroutoua, 1,300 feet	" 1769.	22 29 0	150 20 25	Thompson, R.N.	800
Group of Islands	"	21 50 0	150 0 0	"	800
Rimitera Island; 300 feet	Henry.	22 40 0	152 59 49	Thompson.	800
Sands Island	Sands, 1845.	21 50 0	154 0 0	Sands.	800
Island	"	"	155 0 0	"	801
COOK'S ISLANDS.					
Mangaia, or Mangea	Cook, 1777. [1814.	21 57 0	158 7 0	Cook.	801
Rarotonga; N. end	<i>The Seringapatam,</i>	21 15 30	159 44 17	Bethune.	802
Rurutu Island	"	20 20 0	160 0 0	"	803
Atiu, or Wateo; centre	Cook, 1777.	19 58 0	158 4 23	"	803
Takutea, or Wenoaette	"	19 51 0	158 23 0	Cook.	804
Mitiero; centre	Dibbs, 1823.	19 49 45	157 34 0	Bethune.	804
Mauki, or Parry's Island	"	20 7 0	157 11 0	"	804
Hervey Islands	Cook, 1773.	19 18 0	158 54 0	"	804
Aitutake, or Whytootaké	Bligh, 1798.	18 52 0	159 41 0	Bligh.	804
New Island	"	24 10 0	159 20 0	Dutailis; Hamond.	805
Island	"	22 30 0	162 51 0	Hamond.	805
Beveridge Reef; Lagoon Reef; K. George Reef; Middleton Reef	Nicholson.	20 2 0	167 49 0	Sir E. Belcher.	805
TONGA OR FRIENDLY ISLANDS.					
Pylstaart Island (Sola Island)	Tasman, 1643.	22 24 45	176 4 0	Freycinet.	810
Ono Islands	"	20 39 0	178 40 0	Bellingshausen.	811
Simonoff Island	Bellingshausen.	21 2 50	178 46 20	"	811
Eoa, or Eoa, or Middelburg; N.W. part	"	21 20 30	174 52 0	Chart.	811
Cattow Island	Tasman, 1643.	21 30 0	175 1 0	"	811
Tonga-tabu; Panghai-motu Island	"	21 8 19	175 14 15	{ Cook; D'Urville; D'Entrecasteaux	812
North Star Reef	Sir E. Home, 1844.	19 20 0	173 45 0	Home.	815
Namuka (Annamooka) Island	"	20 15 0	175 2 0	Charts.	816
Culebras Bank	Maurelle, 1781.	20 22 0	175 52 0	"	816
Hapai Island; Lefouka	"	19 48 12	174 20 0	Worth.	817
Tofoua Island, 2,800 feet	"	19 45 0	175 3 0	D'Urville.	817
Kao Island, 5,000 feet	"	19 41 35	174 59 50	"	817
Disney Shoal	Disney, 1841.	19 15 0	173 40 0	Disney.	818
Homer Shoal	"	19 4 0	174 39 0	Home.	818
Vavau; Port Refuge; Neafu village	"	18 38 20	174 55 0	"	818
Latte or Lette Island, 1,600 feet	"	18 45 15	174 28 0	D'Urville.	820
Amargura, or Fanoualei, or Gardner's Island	Maurelle, 1643.	18 2 0	174 16 0	Worth.	820
Minerva Reefs	Nicholson, 1818.	23 35 0	178 0 0	Nicholson.	820
Favorite Reef	Bethune, 1842.	23 35 0	179 11 0	Bethune.	820

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TIDES, MAGNETIC VARIATIONS, &c. xv

	Discoverer.	Lat. South.	Lon. West.	Authority.	Page.
Pitcairn Island; Adamstown	Carteret, 1767.	25° 3' 37"	130° 8' 23"	Beechey.	846
Oeno Island; N. point	Henderson.	24 1 20	130 41 0	"	850
Crescent Island, or Temoe	Wilson, 1797.	23 20 29	134 35 8	"	850
Gambier Islands, or Manga Reva; Mount Duff, 1,248 feet	"	23 7 58	134 55 21	"	850
Lord Hood's Island, or Marutea	Edwards, 1791.	21 30 50	135 33 19	"	852
Maria Id. (Denis or Wright's Id.)	Ebrill, 1832.	22 5 0	136 0 0	Ebrill.	852
Amphitrite or Actæon Island	" 1833.	21 18 30	136 38 0	Biddlecombe, 1837.	853
" Bedford Island		21 23 0	136 32 0	"	853
" Minto Island		21 28 30	136 27 0	"	853
Melbourne Island	Edwards, 1791.	20 44 53	138 19 23	Beechey.	853
Carysfort Island, or Turfeie		22 12 0	138 40 0	"	853
Cockburn Island	Beechey, 1826.	21 50 32	138 44 28	"	854
Osnaburgh Island (Matilda Reef)	Carteret, 1767.	21 27 41	140 37 58	"	855
Bligh Island, or Hereheretua	Bligh, 1792.	20 23 0	143 37 0	Wilkes.	855
Gloucester or Margaret Island,	Carteret, 1767.	20 38 0	143 22 0	"	855
Nukutipipi, or Nihirow	Quiros, 1606.	20 23 0	143 47 0	"	855
Coronados, or Four Crowns, or Tiku	"	19 56 0	145 0 0	"	855
San Miguel Arcangel, or Heretua	"	21 20 0	143 50 0	"	856
San Pablo	"	19 52 0	145 23 0	"	856
St. Elmo (?)	" 1822.	21 10 0	138 52 0	"	856
Britomart Island (?)	"	20 45 7	139 3 9	Beechey.	856
Faith Island	Beechey, 1826.	19 17 40	138 42 28	"	856
Barrow Island, or Teku	Wallis, 1767.	18 33 42	136 20 0	Wilkes.	856
Whit Sunday I. or Temata-leiwuwau	Duperrey, 1822.	18 22 39	136 55 3	Beechey.	858
Clermont Tonnerre Island	Wilson, 1797.	19 22 59	139 12 3	"	858
Serie Island, or Apucarua	Wallis, 1767.	19 8 0	139 22 0	"	859
Egmont Island, or Tatakoto	Mauruc.	19 40 22	138 22 28	"	859
Tres Cocotiers Island	Beechey, 1826.	19 13 0	141 11 0	"	859
Byam Martin Island, or Nganaiti	Wallis, 1767.	19 8 0	140 37 0	"	859
Cumberland Island, or Manuwangi	"	18 30 8	139 8 0	"	859
Gloucester Island, or Hariri, or Toué-toué	"	19 17 40	138 42 28	"	860
Lanciers or Thrum Cap Island, or Pukerua	Bougainville, 1768.	18 42 26	138 43 12	"	860
Queen Charlotte's Ids., or Aki-Aki	Wallis, 1767.	17 20 0	138 23 0	Duperrey.	860
Four Facardins or Lagoon I., or Teay	Bougainville, 1768.	17 0 0	138 40 0	Mauruc.	860
Narcissus or Clerke Island, or Puka	Bougainville, 1768.	17 43 0	140 47 0	Bellingshausen.	860
Puka, or Tatakoto	Bonecheo, 1774.	17 22 20	141 24 0	"	863
Anonymous Island	"	16 52 0	140 30 0	"	863
Moller Island, or Amanu	Bellingshausen, 1829.	16 38 0	141 0 0	"	863
Harpe or Bow Island, Heyou,	"	15 58 18	140 11 30	Kotzebue.	863
Ocheou, or Eaoo; N.E. entr.	Bougainville, 1768.	14 55 40	138 47 36	Wilkes.	864
Prince William Henry or L'Ost-	Wallis, 1765.	14 9 30	141 17 50	"	864
tange Island, or Nègonègo	"	14 10 0	141 5 0	Worth.	865
Two Groups, or Morocao and Raou-	"	15 51 20	140 50 50	Kotzebue.	865
wabéré, or Manaka and Dawhaida,	"	15 38 0	142 6 0	Bellingshausen.	865
N. extremity	Cook, 1773.	16 12 0	142 30 0	"	865
Buyer's Group, or Réhérétooua	Buyers, 1803.				
Bird Id., Reitouroa, or Hekueru	Cook, 1769.				
Melville Island, or Scouerou, or Tetukota	Beechey, 1826.				
St. Simon or Resolution Island, or Taweree	Beechey, 1826.				
Humphrey Island (?)	Bonecheo, 1772.				
Merrill Island (?)	" 1822.				
Predpriatie Island, Kainga, or Aka-	Merrill, 1832.				
haina, or Prince de Joinville	"				
Honden or Dog Id., or Henuake	Kotzebue, 1824.				
Disappointment Ids., or Wytoohee	Le Maire, 1616.				
" Othoo	Byron, 1765.				
Araktecheff Id., or Aatað, Nanatað,	"				
Ahangatou, or Maroupo	"				
Wolkbonsky Island, or Takurea, or Tacoumi	Bellingshausen, 1820.				
Barclay de Tolly Island, or Roioia	"				

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XXV. — ISLANDS BETWEEN LATITUDES 10° & 20° S.					
Flint's Island	1801.	11 25 43	151 48 0	Wilkes.	896
Wostock Is. (Anne or Stavers' Id.)	Bellingshausen, 1820.	10 5 50	153 23 0	Bellingshausen.	896
Mopelia or Mopihá Island	Wallis, 1767.	16 50 0	154 21 0	Hamond.	896
Palmerston's Island	Cook, 1773.	18 5 50	163 10 0	(<i>Le Bucephale</i> .)	896
Bellingshausen Island	Kotzebue, 1824.	15 48 0	154 30 0	Kotzebue.	896
Scilly Islands	Wallis, 1767.	16 28 0	156 10 0	Krusenstern.	897
Grand Duke Alexander, Reirson's I.	Bellingshausen, 1820.	10 2 0	161 9 0	Bellingshausen.	897
Humphrey Island	Patrickson, 1822.	10 30 0	161 2 0	Patrickson.	897
Souworoff Island	Lazareff, 1814.	13 20 0	163 30 0	Lazareff.	897
Gente Hermosa Islands	Quiros, 1606.	10 36 0	171 0 0	„	897
Danger Islands	Byron.	10 54 0	165 54 0	Bellingshausen.	897
Swain's Island	U. S. Ex. Ex. 1840.	11 5 0	170 55 15	Wilkes.	898
Ranger Island	„	11 35 0	166 45 0	Worth.	898
Nassau Island	Sampson, 1835.	11 30 0	165 30 0	„	898
SAMOA OR NAVIGATOR'S ISLANDS.					
Rose I. (Kordiuokoff or Middleton I.)	Freycinet.	14 32 0	168 9 0	Sir E. Belcher.	900
Manua, Omanooau (or Opoun) Id.; village, N.W. side		14 19 0	169 22 0	U. S. Ex. Ex. 1839.	901
Orosenga, or Orisega (or Leoné) Island; S.E. point		14 14 0	169 34 0	„	901
Ofa (or Fanfoué) Id.; islet off W. pt.		14 12 30	169 38 0	„	901
Tutuila (or Maouna) Id.; Anuu Id.		14 18 40	170 40 0	„	901
Fagaitua Bay; village		14 18 0	170 33 42	„	—
Pago-Pago Harb.; Ob. St. N. side		14 16 10	170 36 13	Bethune.	902
Sail Rock Point		14 22 30	170 41 0	U. S. Ex. Ex.	—
West Cape		14 20 45	170 48 15	„	—
Aluau Bay; Greyhound Point . . .		14 18 0	170 44 15	„	—
Fungatar Harbour; anchorage . .		14 13 0	170 42 30	„	—
Cock's Comb Point		14 15 24	170 38 18	„	—
Oafonu Harbour; anchorage . . .		14 16 48	170 33 15	„	—
Aur Harbour; anchorage		14 17 0	170 33 0	„	—
Upolu Id.; Nuulua Islet, E. pt.		14 1 50	171 20 30	„	903
Faleaili Harbour; Cocoa-nut Is.		14 0 13	171 35 38	„	—
Sanaapu Harbour; entrance . . .		13 57 47	171 44 27	„	—
Manono or Platte Island; centre .		13 50 10	172 1 0	„	905
Apia Harbour; village		13 48 56	171 41 9	„	905
Saluafati Harbour; entrance . . .		13 50 45	171 31 30	„	904
Falifa Harbour; centre		13 52 33	171 31 46	„	—
Fangaloo Bay		13 53 30	171 28 10	„	905
Apolima Island		13 49 10	172 4 40	„	905
Savaii (Oteewhy or Pola) Island					
S.E. point		13 48 30	172 8 30	„	906
Paluale; village		13 45 0	172 13 0	„	906
S.W. point		13 48 40	172 28 40	„	906
Felialupu; W. point		13 30 30	172 45 0	„	906
Metaatua; N. point		13 28 0	172 18 0	„	907
Savage Island, or Iniue	Cook, 1774.	19 10 0	169 50 0	„	907
Cocos and Verraders Islands; Niua-					
tabu-tabu Island, or Boscawen . .	Le Maire, 1616.	15 54 0	173 48 0	Bethune.	907
Verraders or Keppel Island	„	15 57 0	173 58 0	„	908
Three Islands		18 8 0	169 20 0	Charts.	908
Proby Island; Anoofou	Edwards, 1791.	15 53 0	175 57 0	Edwards.	908
Brinsmade Island (probably same?)	Wood, 1840.	15 37 0	175 25 0	Wood.	908
L'Enfant Perdu	Bougainville, 1768.	14 20 0	176 40 0	Bougainville.	908
Home Bank, 13 fathoms	Home, 1844.	12 53 8	175 31 0	Sir E. Home.	908
Uea, Uvea, or Wallis Island; Allier Bay, Fenuafu Island	Wallis, 1767.	13 13 35	176 20 52	Du Bouzet, 1841-2.	909
Horn Islands, Foutouna Island; Mount Schouten	Le Maire, 1616.	14 14 20	178 11 36	„	911
Alofa Island; Mt. Bougainville . .	„	14 19 0	177 21 30	„	—
XXVI.—FEEJEE ISLANDS.					
Vatoo or Turtle Island	Cook, 1773.	19 50 0	178 37 0	Worth (Cook).	916
Ong-Hea or Ongea; centre	„	19 4 0	178 30 30	U. S. Ex. Ex.	917

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Nugu Ongea Reef; centre . . .		19° 8' 30"	178° 27' 30"	Survey by the U.S.	917
Boulang-Ha, Fulanga (or Laquaba); W. bluff		19 3 0	178 44 30	Ex. Ex.	917
Marambo, or Maramba		18 56 30	178 51 0	"	917
Kambara (or Appallo); S. point .		18 56 35	178 57 40	"	917
Enkaba, or Focaffa; centre . . .		18 50 20	178 55 0	"	917
Taboune-siki, or Tubanaielli; cent.		18 42 10	179 5 15	"	917
Ang-Hasa, or Angasa, or Table Id.	Wilson.	18 55 0	178 32 0	"	918
Namuka (or Neat's Tongue); centr.	"	18 46 0	178 41 0	"	918
Komo-Levu; centre	"	18 38 0	178 40 30	"	918
Holo-Roua, or Ularua, or Olenea .		18 33 30	178 46 30	"	918
Mozé, or Motha		18 35 10	178 34 0	"	918
Oneata; Observatory Island . . .		18 24 25	178 31 45	"	918
Echouas or Aiva Islands		18 20 0	178 45 0	"	919
Laguemba, or Lakemba; Kendi Pk.		18 14 10	178 49 0	"	919
Argo Reef, or Bocatanaoa; S.E. ex.		18 17 0	178 22 0	"	919
Neaou, or Naiau (or Oedida); sum.		17 59 0	179 1 0	"	919
Vanua Vatu; centre		18 22 30	179 20 0	"	921
Tabutha; N.W. peak		17 37 30	178 39 0	"	920
Aro Island		17 41 0	178 38 35	"	920
Gordon Reef		17 39 30	178 33 20	"	920
Dzizia, Chichia, or Favorite Island; S.E. point		17 48 0	179 16 0	"	920
Mang-Ho, Mango, or Cox Island; S.E. end		17 29 0	179 7 0	"	920
Vekai Island		17 32 20	178 49 0	"	920
Katafanga Island		17 30 0	178 41 0	"	920
Malevuvu Reef; S. end		17 25 0	178 41 0	"	920
Munia or Hadow's Island; peak .	Wilson.	17 21 40	178 52 30	"	921
Ticumbia, or Van Shirmding's Id.	"	17 16 0	178 47 0	"	921
Susui, or D. Scott's Id.; S. point .	"	17 21 25	178 57 0	"	921
Malatta Island; centre		17 20 30	178 59 0	"	921
Vanua-Valavo, or Sir Charles Mid- dleton Island; N.W. point . . .	Wilson.	17 10 0	179 2 50	"	921
Nuku Tikombia Reef; E. extrem.		17 20 0	178 37 30	"	921
Avia or Curling's Island; centre .	Wilson.	17 11 0	178 54 10	"	921
Osubu, or Three Brothers		17 19 40	178 50 0	"	921
Kanazea, or Kanathia, or Sims Is- land; S. point	Wilson.	17 17 20	179 7 0	"	922
Frost's Reef		17 23 0	179 12 0	"	922
Malina, or Scar's Island	Wilson.	17 8 0	179 10 15	"	922
Batou-bara or Vatu rera Island .	"	17 29 0	179 31 0	"	922
Azata, or Ythata, Hamilton, or Cap Island; peak		17 17 0	179 28 30	"	922
Nougou-Toulou Island; S.W. one		17 18 30	179 33 10	"	922
Neïta-Oumba, or Naitamba, or Di- rection Island; centre	Wilson.	17 3 0	179 14 0	"	922
Okimbo Island		17 2 40	179 1 0	"	922
Yalangalala or Low Island . . .	Wilson.	16 49 30	179 4 40	"	923
Look-out Reef; E. extreme . . .		16 54 0	178 42 0	"	923
Velerara Island		16 52 0	178 59 0	"	923
Nanuku or Warner Island	Wilson.	16 31 30	179 25 40	"	923
Nukumanu or Sandy Island . . .	"	16 19 10	179 24 40	"	923
Nukumbasanga Island		16 18 0	179 16 25	"	923
Duff Reef	Wilson, 1797.	16 25 0	179 29 0	"	923
Clusters, or Janoudza Id.; Budd Id.	"	16 25 30	179 38 30	"	923
Korotuna Island; Charybdis Reef		16 2 20	179 24 0	"	923
Nuku-Levu Reef; E. end		16 7 0	179 14 30	"	923
Zigombia, or Chicobea, or Farewell Island; N. hummock	Wilson.	15 47 30	179 52 0	"	924
Tabé-ouni or Vuna Island; N. pt.		16 40 20	179 50 35	"	924
Somu-Somu; town		16 46 0	179 58 0	"	924
Vuna, or S. point		17 1 0	180 4 0	"	924
Ongomea or Kamia Island; summ.		16 46 0	179 42 0	"	925
Laoudzala or Louthalu Island; E. point		16 46 0	179 37 40	"	925

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		° ' "	° ' "		
Vanua-Lebou or Vanua-Levu Island				Survey by the U.S.	925
Unda, or N.E. Pt. (Edward's Id.)	Wilson.	16 8 0	179 55 50	Ex. Ex.	925
Rambé I. or Gillet's I.; N.E. pt.	"	16 24 0	179 53 40	"	925
			Lon. East.		
Kea or Tate's Island; Port Safety	"	16 37 0	179 57 0	"	925
Baino Harbour; entrance . . .		16 45 30	179 50 30	"	925
Savu-Savu Bay; E. point . . .		16 49 20	179 16 0	"	926
Waicama Hot Springs . . .		16 46 5	179 20 0	"	926
Kombelau Point; extremity . . .		16 25 25	179 2 0	"	926
Nemena or Direction Island . . .		17 6 0	179 6 30	"	926
Sua Lib Bay . . .		17 0 0	178 48 0	"	926
Mbua or Sandalwood Bay . . .		16 48 10	178 29 10	"	927
Dimba-Dimba Point . . .				"	
Yendua Is. Porpoise Hr.; Obs.		16 50 0	178 14 41	" Var. 9° 30' E.	928
Anganga Island; W. point . . .		16 35 40	178 32 30	"	928
Nucumurry Harbour; Island . . .		16 42 40	178 32 0	"	—
Naloe Bay; Tavea Island . . .		16 38 20	178 43 0	"	928
Wailea Bay; Leonidas Island . . .		16 38 25	178 36 50	"	—
Nucumbati Island . . .		16 28 0	179 0 10	"	928
Muthuata; town . . .		16 27 20	179 2 15	"	928
Kie Island . . .		16 14 15	179 4 20	"	928
Mali Island; W. point . . .		16 21 10	179 17 30	"	929
Sau Sau Passage . . .		16 10 30	179 29 0	"	929
Koro, Goro, or Goroo Id.; N. pt.		17 13 0	179 26 0	"	929
Kaumonu or Horse-shoe Reef . . .		17 36 45	179 19 30	"	929
Neirai, or Nairai, or Nirie Island; N.E. point . . .		17 49 40	179 30 0	"	929
Mothea, or Eliza Reef . . .	The Eliza, wr. 1809.	17 55 0	179 30 0	"	930
Cobu Rock . . .		17 52 35	179 29 15	"	930
Venemole Bay . . .		17 47 0	179 26 0	"	930
Toaloe . . .		17 45 30	179 27 5	"	930
Nbao or Angau (Neow Id.); N. pt.		17 56 10	179 20 30	"	930
Lobo Hill; S.E. point . . .		18 0 30	179 20 3	"	930
Mumbolithé or Mumbolittee Reef.	D'Urville.	18 15 40	179 23 30	"	931
Vateki or Ambatiki Id.; summit . . .		17 46 40	179 10 20	"	931
Mouala or Moala (Mywoolla? or Merla Eavou) . . .	Bligh, 1792; or D'Urville.	18 41 0	179 53 0	"	931
Tova Reef, 2 feet; S. point . . .		18 41 0	180 24 0	"	931
Totoua or Totoia Island; S.E. pt.	D'Urville.	18 57 25	180 8 0	"	931
Matougou or Matuku; S. point . . .	"	19 13 30	179 44 0	"	932
Carr's Harbour . . .		19 11 20	179 44 0	"	932
Mbenga Island, Sawau Harb.; entr.		18 22 0	178 9 10	"	934
Namuka Island; summit . . .		18 23 0	178 58 25	"	934
Viti-Levu Island, Rewa Harbour; Nukulau Island . . .		18 10 50	178 30 40	"	932
Suva Harbour; entrance . . .		18 7 0	178 23 0	"	934
Ndronga . . .		18 6 0	177 22 0	"	934
Navula Passage; Waldron Id. . .		17 53 40	177 7 0	"	935
Malolo Island; N. point . . .		17 46 0	177 6 20	"	935
Chaptal or Hudson's I.; Carr I.		17 37 0	177 0 0	"	935
Underwood Group; Henry Id. . .		17 40 50	177 15 35	"	935
Ba Passage . . .		17 35 0	177 25 0	"	935
Ba (town of) . . .		17 27 0	177 37 0	"	935
Dongaloe . . .		17 21 0	177 46 30	"	935
Malaki Island; N. point . . .		17 16 30	178 7 20	"	936
Ovalu or Passage Island . . .		17 22 0	178 47 50	"	936
Mokundraga Island . . .		17 24 20	178 58 40	"	936
Mokungai Island; E. point . . .		17 26 0	179 0 0	"	936
Wakai Island; S. point . . .		17 38 45	179 1 35	"	936
Onalau or Ovolau Island; Levuka Harbour; Observatory Point . . .		17 40 47	178 52 41	" Var. 9° 30' E.	937
Matoriki or Moturiki Id.; S. pt.		17 46 0	178 47 30	"	938
Leluvia Island . . .		17 47 30	178 45 0	"	938
Ambau or Bau Island . . .		17 57 30	178 38 15	"	938
Kamba Point . . .		17 59 30	178 43 30	"	938
Vatu-Lele Island; N. point . . .		18 31 0	177 35 0	"	939

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Flying Fish Shoal		18 35 30	177 46 30	Survey by the U.S.	939
Kandabou or Kantavu ; peak		19 1 0	178 18 0	Ex. Ex.	939
" Cape Bligh		19 0 0	178 23 30	"	939
" Tabuca Bay		19 2 0	178 5 0	"	940
" S.W. point		19 17 20	177 57 45	"	940
Astrolabe Reef; N. point		18 42 0	178 28 0	"	940
Asaua Group; Vomo Island		17 29 0	177 13 0	"	940
Bitonho Island		17 27 30	177 0 0	"	941
Waia Island; peak		17 17 20	177 4 35	"	941
Waialailaitake; Observatory Pk.		17 22 0	177 5 0	"	941
Agate Island		17 13 0	177 12 0	"	941
Naviti Island; N.E. point		17 2 30	177 15 0	"	941
Matathoni Levu Island		16 57 0	177 18 0	"	941
Ya-Asaua Id.; Tau'tha-ke Peak		16 50 15	177 23 30	"	941
Asaua Island		16 44 0	177 28 0	"	941
Timboor Island		16 42 30	177 28 10	"	941
Awakalo or Round Island		16 40 30	177 43 0	"	941
Bivoua or Biva Island; W. point		17 9 0	176 54 0	"	941
Porpoise Shoal		17 1 0	176 59 0	"	941
XXVII.—NEW HEBRIDES, &c.					
Annatom ; S.W. point		20 11 25	169 35 44	D'Urville.	942
Erronan (or Footoona); summit		19 31 20	170 6 20	"	943
Irritoc Island (?)		19 54 0	170 10 0	"	943
Tanna Island, Port Resolution;					
Cook's Pyramid	Cook, 1774.	19 31 17	169 29 0	Sir Edw. Belcher.	944
Immer Island		19 21 0	169 31 0	Charts.	945
Erromanga Island ; Traitor's Head		18 46 0	169 15 0	"	946
Sandwich Island ; S.E. point	Cook, 1774.	17 52 0	168 35 0	"	947
Montagu Island	"	17 26 0	168 17 0	"	947
Three Hills Island	"	17 4 0	168 19 0	"	947
Two Hills Island ; Monument Rock	"	17 0 0	168 35 0	"	947
Apee Island ; N. point	"	16 36 0	168 10 0	"	947
Pacoom Island ; E. islet	"	16 26 0	168 28 0	"	947
Ambrym Island ; S. point	"	16 14 0	168 19 0	"	947
Mallicollo Island ; Port Sandwich		16 25 0	167 46 0	Cook.	948
Maskelyne Islands	Cook.	16 32 0	168 19 0	"	949
Whitsun or Pentecôte Island	Bougainville.	15 59 0	168 19 0	"	949
Aurora Island ; N. point	"	14 56 0	168 5 24	D'Urville.	949
Lepers' Island ; centre	"	15 22 0	167 54 0	Cook.	949
Pic de l'Etoile ; summit	"	14 29 40	168 4 55	D'Urville.	949
Espiritu Santo Id. ; C. Cumberland	Quiros, 1606.	14 43 0	166 40 0	Cook.	951
" " Cape Lisburne		15 40 0	166 44 0	"	951
" " St. Philip and St. Jago					
Bay ; Cape Quiros		14 55 0	167 5 0	"	953
Banks Id. ; Great Id., N. summit	Bligh, 1789.	13 47 20	168 32 14	D'Urville.	954
" N. Island ; summit		13 36 0	167 22 0	"	954
" N.E. Island ; summit		13 43 0	167 43 54	"	954
Claire Island	D'Urville, 1838.	14 20 45	167 47 24	"	954
Sugar Loaf Island ; summit	"	14 52 45	167 45 14	"	954
SANTA CRUZ ISLANDS.					
Vanikoro Island ; Mount Kapogo	Edwards, 1791.	11 36 30	136 53 24	"	957
" " Ocili Harbour		11 40 24	166 52 0	"	956
Nitendi, or Sta. Cruz Id. ; C. Byron	Mendaña.	10 41 10	166 10 9	"	959
" Cape Boscawen ; S.W. point		10 51 15	165 58 54	D'Entrecasteaux.	959
" Guerta or Trevanion Island		10 40 0	165 45 30	Carteret.	959
Tinakoro or Volcano Island	Mendaña.	10 23 10	165 49 34	D'Urville.	959
Mendaña or Duff's Group ; Taumaco					
or Disappointment Island	"	9 57 0	167 0 0	Wilson.	960
Bayonnaise Bank	Tromelin, 1828.	12 8 30	180 16 30	Tromelin.	961
Meek Shoal	Meek, 1832.	10 40 0	179 8 0	Meek.	961
Rotumah, Rotuam or Grenville Is-					
land ; Atangota Island	Edwards, 1791.	12 32 0	177 13 0	Duperrey.	961
Eagleston Reef	Eagleston.	12 30 0	178 0 0	Eagleston.	962

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Isabella Shoal	Pearson, 1832.	12° 25' 0"	177° 15' 0"	Pearson.	962
A Reef		15 32 0	175 20 0	Hamond.	962
Onaseuse, or Hunter Island . .	Hunter, 1823.	15 31 0	176 11 0	Hunter.	962
Carter's Reef		15 42 0	176 28 0		962
A Reef		18 10 0	175 10 0		962
Charlotte Bank	1788.	11 50 0	173 12 0		962
Pandora Reef	Edwards, 1791.	12 11 0	172 7 0	Edwards.	962
Mitre Island, or Fataka . . .	"	11 56 0	170 20 0	Kroutcheff.	963
Annula or Cherry Island . . .	"	11 35 0	170 0 0	"	963
Tucopia, or Barwell Island . .	Quiros, 1606.	12 21 10	168 43 30	Tromelin.	963
XXVIII.—GALAPAGOS ISLANDS.					
Albemarle Island; Tagus Cove .		0 15 55	91 26 45	The Survey by	968
" " Port Christopher . . .		0 54 0	91 35 0	Capt. R. Fitz-	968
" " Iguana Cove		0 59 0	91 32 15	Roy, in H.M.S	968
" " Cape Woodford		0 46 0	90 52 0	Beagle.	969
" " Cape Marshall		0 3 0	91 17 0	"	969
" " Point Albemarle . . .		0 10 0 N	91 27 0	"	970
Redondo Rock, 85 feet		0 13 30	91 40 0	"	970
Narborough Island, Cape Douglas; N.W. extremity		0 20 0 S	91 44 45	"	968
" " Cape Hammond		0 31 0	91 40 0	"	969
Culpepper Island; summit . . .		1 22 55 N	91 53 30	"	970
Weeman Island; N.W. summit .		1 39 30	92 4 30	"	970
Abingdon Island; summit . . .		0 34 25	90 48 10	"	970
Bindloe's Island; S. summit . .		0 18 50	90 33 55	"	971
Tower's Island; W. cliff . . .		0 20 0	90 2 30	"	971
James Island; Sugar-loaf, 1,200 ft.		0 15 20 S	90 56 40	"	971
" " James Bay		0 12 5	90 55 25	"	971
" " Adam Cove		0 10 0	90 50 0	"	971
" " Sullivan Bay		0 17 5	90 39 5	"	971
Jervis Island; summit		0 25 0	90 47 30	"	972
Duncan Island; centre hill . .		0 36 30	90 45 0	"	972
Indefatigable Island; N.W. Bay, Eden Islet		0 33 25	90 37 45	"	972
Barrington Island; W. summit .		0 50 30	90 10 0	"	973
Charles Island; Post Office Bay .		1 15 25	90 31 30	"	973
" " Summit		1 19 0	90 32 0	"	973
Hood's Island; E. summit . . .		1 25 0	89 43 55	"	974
" " Gardner Bay		1 22 10	89 44 0	"	974
Mac Gowen Shoal; centre . . .		1 8 30	89 59 30	"	974
Chatham Island; Mount Pitt . .		0 45 15	89 20 45	"	974
" " Terrapin Road		0 43 30	89 27 0	"	974
" " Stephen's Bay		0 50 0	89 36 45	"	975
" " Freshwater Bay		0 56 25	89 33 25	"	975
XXIX.—MARQUESAS ISLANDS, &c.					
Fatu-Hiva or Madalena; Venus Point, 3,670 feet		10 30 40	138 43 15	Survey by M.	982
Motane, Mohotani, or San Pedro; S.S.E. Point		10 0 40	138 49 30	de Tessan, under	982
La Solide Bank, 10 fms.; S. extr.		10 13 0	138 49 0	Capt. Du Petit	982
Tahuata or Santa Christina; Port Madre de Dios, watering place		9 56 0	139 9 0	Thouars, 1838.	982
O-Hiva-oa, or La Dominica; Cape Balguerie		9 43 30	138 50 0	"	984
Fetugu or Hood's I.; 1,180 ft. cen.		9 25 0	138 57 45	"	984
Uapea or Roapoa Island; N. point		9 21 0	140 5 0	"	985
" " Obelisk Island		9 29 30	140 4 45	"	985

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Uahuga, Washington, or Riou's Island; Danger Point . . .		8 54 0	139 33 30	Survey by M. de Tessan, under Capt.	986
Nuka Hiva; Cape Martin . . .		8 58 0	140 2 0	Du Petit Thouars.	987
„ Comptroller B.; Pt. Haka		8 55 20	140 6 0	Sir E. Belcher.	—
„ Pt. A. Maria, or Tai-o-hae		9 0 0	140 16 0	Krusenstern.	990
„ Tschitschagoff Point . . .		8 54 0	140 19 30	Tessan.	990
„ West point . . .		8 54 0	140 11 0	„	987
„ Summit, 3,840 feet . . .		8 44 0	140 38 30	„	991
Motu-iti or Hergest Islet; 130 ft.		8 18 0	139 52 0	„	991
Clark's Reef (?) . . .		7 53 0	140 25 0	„	991
Low Island . . .		8 3 30	140 44 0	„	991
Hiau or Masse Id., 2,000 ft.; S. pt.		7 55 0	140 34 20	„	991
Fattuuhu, Fetou-Houhou, or Chanal Island; N.E. point . .					
DETACHED ISLANDS BETWEEN THE EQUATOR AND 10° S.					
New York and Nexsen Islands (?)	Fanning.	8 9 0	141 30 0		992
Tiburones (?) . . .		11 0 0	143 0 0	Charts.	992
Caroline Island . . .	Broughton, 1795.	9 57 0	150 25 0	Broughton.	993
Thornton Island (?) same . . .	Thornton.	10 4 0	150 16 0	Thornton.	993
Malden Island . . .	Byron, 1825.	4 0 0	155 0 0	Malden.	993
Starbuck Island (Volunteer Id.)	„	5 58 30	155 58 0	„	993
Penrhyn Island . . .	<i>The Penrhyn</i> , 1788.	9 10 0	157 45 0	Kotzebue.	994
Jarvis Island . . .		0 22 33	159 54 11	Wilkes.	994
Bowditch Island, or Fakaao	U.S. Ex. Ex. 1840.	9 20 0	171 4 0	„	995
D. of Clarence Id., or Nukunono.	Edwards, 1791.	9 5 0	171 38 0	„	995
Duke of York Island, or Oatafu	Byron, 1765.	8 25 0	172 27 0	„	995
PHENIX GROUP:—					
Enderbury's Island . . .		3 8 0	171 14 30	„	996
Birney's Island . . .	Emment.	3 34 15	171 39 0	„	996
Arthur Island (?) . . .		3 30 0	176 0 0	„ . . .	996
Gardner or Kemin's Island . .		4 37 42	174 40 18	Wilkes.	996
M'Kean's Island . . .	U.S. Ex. Ex. 1840.	3 35 10	174 17 26	„	996
Hull's Island, N.W. point . . .	„	4 29 48	172 20 52	„	996
Sydney Island . . .		4 30 0	171 20 0	„ . . .	997
ELLICE'S GROUP:—					
Independence Island . . .	Amer. dis.	10 41 0	179 15 0	Beanett.	997
Sophia Island . . .		10 45 0	179 20 0	„ . . .	997
Ellice's Group; Fanafute	Peyster, 1819.	8 30 45	179 13 30	Wilkes.	997
Peyster's Group, Nukufetua; N. extremity . . .	„	7 56 11	178 27 32	„	997
Tracy's Island, or Oaitupu; S. pt. . . .	(Reynolds.)	7 30 0	178 56 0	„	998
Lynx or Speiden Island . . .		6 10 0	177 41 0	„	998
Netherlands or Eeg Island . .	. . . 1825.	7 13 20	177 14 30	Chramtschenko.	998
Gran Cocal Island . . .	Maurelle, 1781.	6 5 0	176 13 0	Duperrey.	998
Sherson's or Hudson Island . .	<i>The Elizabeth</i> , 1809.	6 19 0	176 23 15	Wilkes.	998
St. Augustine or Taswell's Id..	Maurelle, 1781.	5 39 10	176 6 0	Duperrey.	998
Jesus Island (?) . . .	Mendaña, 1567.	6 45 0	171 30 0	„ . . .	999
Nameless Island (?) . . .		2 50 0	170 18 0	„ . . .	999
Paanopa or Ocean Id. Var. 12° 23' E.	<i>The Ocean</i> , 1804.	0 52 2	168 24 25	Dutailis.	999
Mattoetee or Kennedy's Island .	<i>The Nautilus</i> , 1801.	8 36 0	167 50 0	„ . . .	999
Pleasant or Shank's Island . .	Fearn, 1795.	0 25 0	167 5 0	„ . . .	1000
XXX.—SALOMON ISLANDS, NEW GUINEA, &c.					
Santa Catalina Island . . .	Mendaña, 1567.	10 53 0	162 30 0		1003
Santa Anna Island . . .		10 49 0	162 31 0	D'Urville.	1003
San Christoval Island; C. Surville		10 50 40	162 25 14	„	1003
Iles du Golfe . . .		10 15 0	161 45 40	„	1004
Leoué Bay . . .		10 3 40	161 31 4	Dutailis.	1005
Cape Recherche . . .		10 18 0	161 15 0	D'Urville.	1004
Contrarietés Island . . .		9 51 0	162 0 0	„	1004

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Malayta Island ; Cape Zelée	Mendaña, 1567.	9 45 0	161 39 24	D'Urville.	1006
" " Mount Kolowrat		9 6 30	161 2 24	"	1006
" " Cape Ritters		8 41 0	160 40 0	"	1006
Carteret Island ; Cape Astrolabe		8 21 30	160 37 24	"	1006
Guadalcanar Id. ; Islet off E. Cape		9 49 15	160 55 54	D'Entrecasteaux.	1007
" " Cape Henslow		9 59 0	160 39 0	"	1007
" " Cape Hunter		9 49 30	159 57 0	"	1007
" " Island off N.W. side		9 31 38	159 41 39	"	1007
" " Cape l'Esperance		9 16 30	161 46 8	"	1007
Buena Vista Island		8 55 30	160 5 24	D'Urville.	1008
Ysabel Island ; Cape Prieto		8 34 0	159 53 54	"	1008
" " Astrolabe Harbour		8 31 0	159 41 0	"	1009
" " Nairn Island		7 40 0	158 23 0	"	1009
" " Cape Comfort		7 23 40	158 11 24	"	1009
" " Port Praslin		7 25 0	158 20 0	Surville.	1009
Georgia Island ; Cape Pitt		8 53 0	158 14 30	D'Entrecasteaux.	1011
" " Cape Nepean		8 51 30	157 48 45	"	1011
" " Cape Deception		8 42 0	157 30 0	Shortland.	1010
Eddystone Rock		8 18 0	156 30 40	D'Entrecasteaux.	1010
Choiseul Island ; Cape Labé		7 29 5	157 55 20	D'Urville.	1011
" " Cape Alexander		6 42 20	156 32 34	"	1011
" " Choiseul Bay		7 0 0	156 31 0	Bougainville.	1012
Treasury Islands ; S. point		7 28 0	155 29 0	Shortland.	1012
Shortland Island ; Cape Stephens		7 10 0	155 40 0	Bougainville.	1012
Bougainville Id. ; Cape Friendship		6 44 0	155 40 0	"	1012
" " Cape Cras (?)		6 0 0	155 26 0	Shortland.	1013
" " Cape l'Averdi		5 30 0	155 7 14	D'Urville.	1013
Bouka Island ; summit		5 16 0	154 39 0	"	1013
" " Cape North		5 0 30	154 40 10	"	1013
Stewart Island ; Hogan's Island		8 24 24	163 2 0	" 1847.	1014
Inattendue or Gower's Island	Surville, 1767.	7 56 0	160 11 0	Hogan.	1014
Roncador Reefs ; Candelaria	Mendaña, 1567.	}	6 17 0 159 14 0	(Krusenstern.)	1014
Banks (?)	Maurelle, 1781.				
Bradley Reefs	Hunter, 1791.	}	6 52 0 161 6 0	Hunter.	1014
Ontong Java Island, or Howe's	Le Maire, 1616.				
Group (?)	Hunter, 1791.	}	5 30 0 159 30 0	(Krusenstern.)	1015
Mortlock or Massacre Isles	Mortlock, 1795.				
Le Maire and Tasman's Isles	Tasman, 1643.	}	4 29 0 159 28 0	Mortlock.	1015
Frindsbury Reef	1832.				
Simpson's Islands	Simpson.	}	4 29 0 159 19 0	(Horsburgh.)	1015
Marqueen Island	Le Maire, 1616.				
Cocos Islands	Wilkinson, 1790.	}	4 52 0 160 12 0	Simpson.	1015
Nine Islands	Carteret, 1767.				
Groene Islands	Le Maire, 1616.	}	4 36 0 156 30 0	Wilkinson.	1015.
Sir Charles Hardy Island	Carteret, 1767.				
Rennell's Island ; S.E. extremity	Wilkinson, 1790.	}	4 50 0 154 12 0	Carteret.	1016
Indispensable Reef ; S.E. end	"				
Wells Reef ; E. end	Edwards, 1791.	}	11 38 0 160 41 0	Wilkinson.	1017
Pocklington Bank	Pocklington, 1825.				
Laughlan Islands ; E. point	Laughlan, 1812.	}	11 44 0 159 58 0	"	1017
Cannac Island	D'Urville, 1827.				
Woodlark Island ; E. end	Grimes, 1836.	}	12 20 0 157 58 0	Edwards.	1017
" " W. end	"				
Marshall Bennett Islands ; E. one	Hunter, 1836.	}	10 53 0 155 30 0	Pocklington.	1017
Evans Island	" 1841.				
		}	9 19 3 153 48 30	D'Urville.	1017
		}	9 19 0 153 30 0	"	1017
		}	9 9 0 153 5 0	Hunter.	1017
		}	8 53 0 152 24 0	"	1017
		}	8 50 0 152 0 0	"	1018
		}	9 10 0 151 55 0	Dutailis.	1018
LOUISIAD ARCHIPELAGO.					
Adèle Island	Coutance.	11 25 0	154 34 0	D'Urville.	1019
Rossel Island ; Cape Deliverance		11 23 25	154 16 0	"	1019
Renard or Fox Islands ; W. point		10 52 40	152 47 12	"	1019
St. Aignan Island ; Cape Henry		10 41 15	152 45 54	"	1020
De Boyne Island ; N. point		10 39 5	152 22 20	"	1020
La Seinie Islands ; E. one		10 27 30	151 20 24	"	1020
D'Entrecasteaux Ids. ; C. Pierson		9 57 40	151 13 25	"	1020
Well Island ; E. point		9 41 0	150 58 0	"	1021
Cape Labillardière		9 26 0	150 43 0	"	1021

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		° ' "	° ' "		
Troбриand Islands; Lagrandière Island		8 52 30	151 9 44	D'Urville.	1021
Cape Denis		8 24 0	151 1 24	"	1021
Riche Island; N. point		8 2 0	147 57 40	D'Entrecasteaux.	1022
Cape Longuerue		7 22 0	147 23 45	D'Urville.	1022
Cape Cretin		6 47 45	147 54 0	D'Entrecasteaux.	1022
NEW IRELAND :—Cape St. George		4 51 0	152 48 14	Duperrey.	1022
Cape Santa Maria		4 15 0	153 7 30	Bougainville.	1022
Slinger's Bay		3 12 0	152 0 0	Dampier.	1024
Cape Byron		2 46 0	150 33 0	Carteret.	1024
Sandwich Island; peak		2 55 0	150 44 0	D'Entrecasteaux.	1024
Duke of York Id.; Pt. Hunter		4 7 30	152 24 0	Duperrey.	1025
Carteret's Harbour		4 42 0	152 44 30	D'Urville.	1025
Gower's Harb., or Port Praslin		4 49 45	152 54 40	Duperrey.	1026
St. John's Island	Tasman.	4 0 0	153 47 0	Bougainville.	1023
Anthony Kaan (or Oraison?) Id. . .	"	3 30 0	153 30 0	"	1023
Fead or Abgarris Island; N. point	Renneck, 1826.	3 9 0	154 22 0	Renneck.	1023
Gerrit Denys Island	Tasman.	3 4 0	152 34 0	Bougainville.	1023
Lyra Shoal	Renneck, 1826.	1 53 0	153 28 0	Renneck.	1023
Wisbart or Fisher's Island; N. pt.	Le Maire, 1616.	2 32 0	151 54 0	Bougainville.	1024
N. Hanover; Queen Charlotte's					
Foreland		2 32 0	149 50 0	Carteret.	1024
Portland Islands; W. point		2 38 0	149 29 0	D'Entrecasteaux.	1024
NEW BRITAIN :—Cape Stephens . .		4 4 0	151 32 0	"	1027
Cape Palliser		4 19 0	152 9 0	Carteret.	1027
Entrance Point		4 52 0	152 15 0	D'Urville.	1027
Cape Orford		5 24 0	152 4 0	"	1028
Quay Peak		5 37 0	151 47 0	"	1028
Port Montagu		6 10 0	150 30 0	"	1028
Cape South		6 30 0	149 48 0	"	1029
Cape Anne		5 40 0	148 17 2	"	1030
Cape Gloucester		5 28 0	148 23 0	"	1030
Cape Lambert		4 12 0	151 41 0	D'Entrecasteaux.	1032
Merite Island		4 54 0	149 5 0	"	1032
Willamez Island; S. point		5 15 3	149 58 10	"	1032
Admiralty Islands; La Vandola . .		2 14 0	148 10 16	"	1033
Los Reyes Island		1 59 0	148 2 0	"	1033
Jesus Maria Island; S.E. point		2 22 0	147 48 0	"	1033
Admiralty Island; Los Negros		1 58 50	147 16 50	"	1033
Elizabeth Island		2 55 0	146 49 0	Bristow.	1034
Purdy Isles; Mole Island	Bristow, 1817.	2 51 0	146 15 0	"	1034
Sherburne Shoal; S.E. point	White, 1824.	3 15 0	148 16 0	White.	1034
Circular Reef	Renneck, 1825.	3 18 0	147 40 0	Renneck.	1034
Sydney Shoal	Forrest, 1806.	3 20 0	146 50 0	Forrest.	1035
Albert Reef	" 1842.	3 57 0	148 10 0	Charts.	1035
Victoria Reef	" 1842.	4 16 0	147 57 0	"	1035
Gipps Island	" 1842.	4 16 0	149 4 0	"	1035
Squally, Kerué, or Tench Island (?)	Tasman (?)	1 39 0	150 30 0	Ball.	1031
St. Matthias or Pr. Wm. Henry I. .	"	1 32 0	149 30 0	"	1031
Anachorètes Island	Bougainville, 1768.	0 54 0	145 30 0	Bougainville.	1035
Commerson Island	"	0 45 0	145 17 0	"	1035
Los Monjos Island	Maurelle, 1781.	0 57 0	145 41 0	Maurelle.	1035
Boudeuse Island	Bougainville, 1768.	1 26 0	144 34 0	Bougainville.	1035
L'Echiquier Island; S. point	"	1 40 30	144 3 0	D'Entrecasteaux.	1035
Los Eremitanos	Maurelle, 1781.	1 28 30	145 7 45	"	1035
Matty Island	Carteret, 1767.	1 33 40	143 12 30	"	1035
Durour Island	"	1 46 0	142 56 0	"	1035
Tiger Island	Bristow, 1817.	1 45 0	142 30 0	Bristow.	1035
NEW GUINEA, NORTH COAST.					
Dampier Strait; Volcano Island . .		5 32 20	148 17 0	D'Urville.	1030
Rook Island; Cape King		5 29 0	147 46 0	"	1031
Tupinier Island		5 26 0	148 4 0	"	1031
Lottin, or Rocky Island		5 20 0	147 36 0	"	1036
Long Island; Reaumur Peak . . .		5 16 0	147 6 0	"	1036
Crown Island		5 15 0	147 20 0	"	1036

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Cape King William		6 16 0	147 40 0	D'Urville.	1036
Cape Croisilles		4 55 0	145 49 0	"	1037
Sir R. Rich's Island		4 49 0	146 13 0	"	1037
Dampier Island		4 40 0	145 58 0	"	1037
Franklin Bay		4 28 30	145 22 0	"	1037
Vulcan Island		4 6 0	145 1 0	"	1037
Aris Island		4 0 0	144 57 0	"	1037
Cape Della Torre		3 51 0	144 31 0	"	1038
Schouten Islands; Lesson Island.		3 35 0	144 48 0	"	1038
Garnot Island		3 30 0	144 35 0	"	1038
Jacquinot Island		3 24 0	144 24 0	"	1038
Deblois Island		3 21 0	144 9 0	"	1038
Roissy Island		3 12 0	144 3 0	"	1038
D'Urville Island; W. end . . .		3 20 5	143 31 15	"	1038
Guilbert Island		3 13 0	143 17 0	"	1039
Bertrand Island		3 10 0	143 10 0	"	1039
Sainson Island		3 8 0	142 25 0	"	1040
Attack Cove		2 40 0	141 14 0	"	1040
Mount Bougainville		2 40 0	140 52 0	"	1040
Humboldt Bay; Pt. Bonpland . .		2 37 0	140 45 0	"	1040
Cyclops Mountain		2 31 0	140 30 0	"	1040
Matterer Bay		2 21 0	139 58 0	"	1041
Point Brama		2 18 0	139 52 0	"	1041
Mount Benoist (inland)		2 43 0	139 46 0	"	1041
Mérat Island		2 0 0	139 11 0	"	1041
Amable, Mount		2 9 0	139 0 0	"	1041
Arimoa Islands; N. Island . . .		1 37 0	138 41 0	"	1043
Point D'Urville		1 24 0	137 47 0	"	1043
Point Geelwink		1 54 0	137 5 0	"	1043
PORT DOREI or DORY (Obs.) . . .		0 51 43	133 59 52	D'Urville. . . .	1044
XXXI.—ISLANDS BETWEEN THE EQUATOR AND LAT. 10° NORTH.					
Malpelo Island		Lat. North.	Lon. West.	Colnett.	1046
Rivadeneyra Shoal	Rivadeneyra, 1842.	4 0 0	81 32 0	Rivadeneyra.	1046
Cocos Island; Chatham Bay Obs. Var. 8° 24' E. (1838)		4 15 0	85 10 0		
Walker's Island	Walker, 1814.	5 32 57	86 58 22	Sir E. Belcher.	1046
Christmas Island; S.E. point . .	Cook, 1777.	3 34 0	149 15 0	Walker.	1048
Washington Island	Fanning, 1798.	1 40 34	157 13 53	Scott.	1049
Fanning's Island	"	4 41 35	160 15 37	Wilkes.	1050
Palmyra Island	Sawle, 1802.	3 53 0	158 23 0	Tromelin.	1050
Samarang Isles; W. islet . . .	Scott, 1840.	5 50 0	162 23 0	Sawle.	1051
		4 55 9	162 22 20	Scott.	1051
GILBERT ARCHIPELAGO.					
Arurai, Arore, or Hurd's Island .	<i>The Elizabeth</i> , 1810.	Lat. South.	Lon. East.	Dutailis.	1054
Byron Island	Byron, 1765.	2 40 54	174 40 49	Byron.	1054
Onoutou or Rotch Island	Clerk.	1 18 0	177 45 0	Clerk.	1055
Maria or Peru Island	"	2 30 0	176 10 0	"	1055
Tamana or Phœbe Island	"	1 0 0	176 0 0	"	1055
Taputeouea or Bishop or Drum- mond Island	Bishop, 1789.	0 15 0	176 45 0	Reynolds.	1055
Nanouti or Sydenham Island . .	"	1 20 0	174 57 0	Wilkes.	1055
		0 36 0	174 24 0	"	1057
Nanouki or Henderville Island .	Marshall, 1788.	Lat. North.			
Kuria or Woodle's Island	"	0 11 0	173 39 20	"	1058
Apamama or Hopper Island . . .	"	0 14 30	173 27 0	"	1058
Maiana or Hall's Island	<i>The Elizabeth</i> , 1809 (?)	0 27 21	173 57 30	"	1059
Tarawa or Knoy Island	Marshall, 1788.	0 56 45	173 4 15	"	1059
Maraki or Matthew's Island . . .	"	1 29 0	173 5 0	"	1060
Apia or Charlotte Island	"	2 0 0	173 25 30	"	1060
Taritari or Touching Island; S. point	"	1 52 0	173 2 0	"	1061
Makin or Pitt Island; N. point .	"	3 8 0	172 48 0	"	1062
		3 20 43	172 57 0	"	1062

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MARSHALL ARCHIPELAGO.					
Mulgrave or Mille Islands; anch. Var. 9° 45' E.	Marshall, 1788.	6 14 37	171 56 6	Dutaillis.	1063
Arrowsmith or Meduro Islands . .	"	7 5 0	171 23 54	Chramtschenko.	1064
Daniel Island; E. point	"	7 27 0	172 7 0	Marshall.	1065
Pedder Island; W. point	"	7 10 0	171 46 0	"	1065
Aur or Ibbetson Islands; anch. Var. 11° 58' 30" E.	Marshall, 1788.	8 18 42	171 10 7	Kotzebue.	1065
Kaven or Calvert Ids.; Kaven Id.	"	8 54 21	170 49 0	"	1065
Egerup or Bishop Junction Island; S. point	"	9 6 0	170 4 0	"	1065
Otdia or Romanzoff Ids.; Christ- mas Harb. Var. 11° 38' 30"; high water, 2h. 30'; range, 7 ft.	"	9 28 9	170 16 5	"	1066
Legiep or Count Heiden Islands; N.W. point	Kotzebue, 1817.	10 3 40	169 1 57	"	1066
Temo or Steep-to Island	Bishop.	9 58 0	169 45 0	"	1067
Miadi or New Year Island	Kotzebue, 1817.	10 8 27	170 55 34	"	1067
Ailu or Tindal and Watts Island; Capeniur Island	Marshall, 1788.	10 17 25	169 59 20	"	1067
Tagai or Souworoff Is. Var. 11° 18' E.	"	11 11 20	169 50 37	"	1067
Bigar or Dawson Island	"	11 48 0	170 7 0	Marshall.	1068
Bigini or Pescadore Islands . . .	Wallis, 1767 (?)	11 19 21	167 24 57	Kotzebue.	1068
Radokala or Rimski-Korsakoff Ids.	Kotzebue, 1817.	11 26 45	167 14 20	"	1068
Udia-Milai or Eschscholtz Islands .	" 1825.	11 40 0	166 24 25	"	1069
Shanz Islands	Shanz, 1835.	10 5 0	166 4 0	Shanz.	1069
Kwadelen or Catharine Islands . .	The Ocean, 1804.	9 14 0	167 2 0		1069
Lydia or Lileb Islands	"	9 4 0	165 58 0		1069
Margaretta or Paterson Islands . .	"	8 55 48	167 42 0		1069
Tebut Island	"	8 25 0	168 17 0		1069
Namou and Odia, or Muskillo Group; N. island	Bond, 1792.	8 10 0	168 0 0	Chramtschenko.	1069
Helut or Elmore Islands; S. Id. . .	The Elizabeth.	7 15 0	168 46 0	"	1070
Namureck or Hunter Island	Dennet.	5 46 0	169 0 0	Dennet.	1070
Ebon or Baring Ids. Var. 10° E.	Bond, 1792.	5 35 0	168 13 0	Bond (?)	1070
Boston or Covel Islands	Ray, 1824.	4 39 0	168 50 0	Hagemeister.	1071
XXXII.—THE CAROLINE ARCHIPELAGO.					
Ualan or Strong's Island; Coquille Harbour	Crozer, 1804.	5 21 20	163 1 0	Duperrey.	1076
" " " " centre	"	5 19 0	163 6 0	Lütke.	1076
Mac Askill Islands; N. one	Musgrave, 1793 (?)	6 12 50	160 47 20	Duperrey.	1076
Duperrey Isles; Aoura, N.E. point	Duperrey, 1824.	6 41 45	159 50 0	"	1077
Séniavine Ids.; Pouynipète Id.; Roan Kiddi Harb. Var. 9° 45' E.; high water, 6h.; range, 4½ feet	Lütke, 1828.	6 48 0	158 26 0	Rosamel, 1840.	1080
" Andema Group; S. extr.	"	6 43 10	158 5 30	Lütke.	1083
" Paguenema Group; Ka- penoar Id.; W. point	"	7 4 40	167 56 30	"	1084
Ngaryk or Valientes Ids; E. extr.	Tompson, 1773.	5 47 30	157 32 0	"	1084
Nougouore or Monteverde Islands; East point	Monteverde, 1806.	3 51 0	155 0 54	D'Urville.	1085
Bordelaise Island	Saliz, 1826.	7 39 0	155 5 0	Saliz.	1085
Dunkin's Island (!)	Dunkin, 1824.	9 50 0	154 10 0	Dunkin.	1086
Raphael Island	Monteverde, 1806.	7 18 0	153 54 0	Duperrey.	1086
Louasappe or D'Urville Island . .	Duperrey, 1824.	7 3 40	152 42 20	"	1086
Mortlock Isles; Longounor, Port Chamisso	Mortlock, 1793.	5 29 20	153 58 0	Lütke.	1086
Namolouk Group; N.W. isle	Lütke.	5 55 0	153 13 30	"	1088
Hogoleu or Rouk Islands; Pise Id.	Duperrey, 1824.	7 42 30	151 49 15	Duperrey.	1088
" " Givry Island	"	7 9 0	151 51 45	"	1088
" " Tsis Id.; N.W. pt.	"	7 18 25	151 48 29	D'Urville.	1088
Hall Islands; Mourileu Island . .	Hall.	8 47 30	152 20 0	Lütke.	1089
Lütke or East Faieou Island	Lütke.	8 33 20	151 26 0	"	1090
Namonouito Group; Piserarr Id.	Ibargoitia, 1801.	8 34 20	152 32 30	"	1090