

## SECONDARY PORTS TABLE

Port	Lat. °	S. °	Long. °	E. °	Mean Time Differences		Mean Spring, Neap and Sea Level Heights (metres)					Range Ratio
					HW	LW	MHWS	MHWN	MLWN	MLWS	MSL	
<b>AUCKLAND</b>	<b>36</b>	<b>51</b>	<b>174</b>	<b>46</b>	<b>hhmm</b>	<b>hhmm</b>	<b>3.3</b>	<b>2.8</b>	<b>1.0</b>	<b>0.4</b>	<b>1.86</b>	
Maraetai	36	57	175	03	-0015	-0015	-	-	-	-	-	*
Onetaunga Bay	36	49	174	42	+0004	-0007	3.4	2.9	0.9	0.5	2.0	1.00
<b>Coromandel Peninsula</b>												
Coromandel Harbour	36	47	175	27	-0021	-0015	2.9	2.5	0.7	0.2	1.6	0.93
Thames – Rocky Point	37	06	175	31	-0031	-0024	3.3	3.0	0.9	0.6	2.0	0.93
<b>Hauraki Gulf</b>												
Mahurangi Harbour	36	29	174	43	+0002	+0012	-	-	-	-	-	*
Mangawhai Heads	36	05	174	36	+0005	+0005	-	-	-	-	-	*
Matakana River – Sandspit	36	24	174	44	+0005	+0005	2.7	2.4	0.9	0.5	1.6	0.76
Murray Bay	36	44	174	45	-0025	-0003	2.9	2.6	0.7	0.5	1.7	0.83
Tiritiri Matangi Island	36	36	174	53	+0010	-0003	3.0	2.5	0.8	0.3	1.6	0.93
Weiti River Entrance	36	39	174	44	+0001	+0007	3.0	2.5	0.8	0.2	1.7	0.97
Whangateau Harbour	36	19	174	47	-	-	2.7	2.3	0.6	0.2	1.5	0.86
<b>Kawau Island</b>												
Mansion House Bay – Bon Accord Harbour	36	26	174	49	-0015	-0004	2.7	2.3	0.8	0.3	1.5	0.83
<b>Waiheke Island</b>												
Man o'War Bay	36	47	175	09	-0018	-0018	3.0	2.5	0.7	0.2	1.6	0.97
Matiatia Bay	36	47	174	59	0000	+0010	2.9	2.4	0.7	0.2	1.5	0.93
<b>BLUFF</b>	<b>46</b>	<b>36</b>	<b>168</b>	<b>21</b>	<b>hhmm</b>	<b>hhmm</b>	<b>2.8</b>	<b>2.4</b>	<b>1.0</b>	<b>0.6</b>	<b>1.74</b>	
Colac Bay/Ōraka	46	22	167	54	-0044	-0039	2.3	1.8	0.9	0.4	1.3	0.86
Dog Island	46	39	168	25	-0017	-0035	2.8	2.3	1.0	0.5	1.7	1.05
Kawakaputa Bay	46	23	167	49	-0115	-0119	2.8	2.3	0.9	0.4	1.6	1.09
New River Entrance	46	32	168	15	-0022	-0022	2.8	2.5	0.7	0.4	1.6	1.09
Nugget Point	46	27	169	49	+0107	+0108	2.4	2.1	1.0	0.5	1.5	0.86
Port Craig	46	13	167	22	-0203	-0205	3.1	2.6	1.3	0.7	1.9	1.09
Riverton/Aparima	46	22	168	01	-0054	-0052	2.9	2.4	1.2	0.7	1.8	1.00
Ruapuke Island	46	47	168	30	-0011	-0019	2.7	2.3	0.9	0.5	1.6	1.00
Waikawa Harbour	46	39	169	10	+0017	+0021	2.3	2.0	1.0	0.4	1.4	0.86
Waipapa Point	46	39	168	51	+0017	+0016	2.7	2.5	0.9	0.6	1.7	0.95
<b>South Offshore Islands</b>												
Antipodes Island	49	40	178	48	+0210	-	1.8	-	-	-	1.1	-
Auckland Island – Carnley Harbour	50	50	166	03	-0036	-0043	1.1	0.8	0.3	0.1	0.6	0.45
Campbell Island/Motu Ihupuku – Perseverance Harbour	52	33	169	08	+0013	+0020	1.7	1.4	0.9	0.6	1.2	0.50
Snares Island	48	02	166	36	-0109	-0109	1.9	1.7	0.8	0.5	1.2	0.64
Solander Island (Hautere)	46	35	166	53	-0134	-0134	2.3	2.0	0.9	0.6	1.5	0.77
<b>Stewart Island/Rakiura</b>												
Easy Harbour	47	09	167	34	-0200	-0201	2.6	2.2	0.9	0.4	1.6	1.00
Ernest Islands	46	58	167	41	-0200	-0203	2.2	1.8	0.7	0.2	1.2	0.91
Flour Cask Bay	47	17	167	29	-0124	-0136	2.8	2.4	1.0	0.5	1.7	1.05
Golden Bay	46	54	168	07	-0001	-0012	2.7	2.2	1.1	0.6	1.7	0.95
Halfmoon Bay – Oban	46	54	168	08	-0006	-0009	2.6	2.2	1.1	0.6	1.6	0.91
Port Adventure	47	05	168	11	-0017	-0017	3.0	2.5	1.1	0.6	1.8	1.09
Small Craft Retreat	47	15	167	39	-0108	-0108	2.8	2.5	1.1	0.7	1.8	0.95
Yankee River	46	41	167	53	-0103	-0117	2.3	1.9	0.9	0.5	1.4	0.82
<b>LYTTELTON</b>	<b>43</b>	<b>36</b>	<b>172</b>	<b>43</b>	<b>hhmm</b>	<b>hhmm</b>	<b>2.5</b>	<b>2.0</b>	<b>0.7</b>	<b>0.2</b>	<b>1.37</b>	
Akaroa	43	48	172	55	-0043	-0042	2.6	2.2	0.9	0.6	1.5	0.87
Cape Campbell	41	44	174	15	+0050	+0050	1.7	1.6	0.5	0.4	1.1	0.57
Kaikoura	42	25	173	42	+0017	+0017	2.0	1.6	0.5	0.2	1.1	0.78
Lucky Bay	41	16	174	17	+0230	+0230	1.3	1.2	0.5	0.4	0.9	0.39
Port Underwood	41	20	174	06	+0142	+0148	1.5	1.1	0.6	0.3	0.9	0.52
Rakaia River Mouth	43	54	172	13	-0046	-	-	-	-	-	-	*
<b>Chatham Island</b> <sup>1</sup>												
Owenga	44	02	176	22W	+0022	+0021	1.3	1.0	0.3	0.0	0.7	0.57
Waitangi	43	57	176	34W	+0022	+0021	0.9	0.6	0.2	0.0	0.4	0.39
<b>MARSDEN POINT</b>	<b>35</b>	<b>50</b>	<b>174</b>	<b>30</b>	<b>hhmm</b>	<b>hhmm</b>	<b>2.7</b>	<b>2.3</b>	<b>0.9</b>	<b>0.4</b>	<b>1.57</b>	
Mangonui	34	59	173	32	+0033	+0049	2.6	2.2	0.9	0.4	1.5	0.96
North Cape (Otou)	34	25	173	03	+0013	+0017	2.4	1.9	0.8	0.3	1.4	0.91
Portland Wharf	35	48	174	21	+0019	+0013	3.1	2.6	1.1	0.4	1.8	1.17
Tutukaka Harbour	35	37	174	32	-0015	-0010	2.3	1.9	0.8	0.3	1.4	0.87
Whangamumu Harbour	35	15	174	18	+0014	+0031	2.1	1.9	0.6	0.2	1.2	0.83
Whangarei	35	46	174	21	+0021	+0014	3.1	2.6	1.1	0.5	1.8	1.13
<b>Awanui River</b>												
Dairy Factory Wharf	35	02	173	15	+0122	+0223	2.3	1.8	0.6	0.1	1.2	0.96

<sup>1</sup> Add a further 45 minutes to NZST to obtain Chatham Island Standard Time

\* Data Approximate - No Data