

HARMONIC ANALYSIS OF TIDES

NAMES OF STATIONS
FOR WHICH THE INTERNATIONAL HYDROGRAPHIC BUREAU HAS
PUBLISHED SLIPS CONTAINING CONSTANTS.

The International Hydrographic Bureau is issuing in Special Publication N^o 26, now in course of preparation and publication, *complete harmonic constants* for all stations of the world at which the Tidal Observations made have been analysed.

The complete Publication includes general information (contained in a preface); groups of slips published periodically by the International Hydrographic Bureau (each of these slips bears the date of its publication) and a complete list of all the slips which have been issued. This list is divided into three parts:

- (1) Numerical list of slips issued;
- (2) Alphabetical list of slips issued;
- (3) List in geographical order of slips issued.

The list in geographical order of the slips issued to date is given here for general information.

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REGION	NAME OF STATION. — NOM DE LA STATION	N ^o
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» »	Low Wooded Island.....	2008
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A list of Stations, the harmonic constants for which have been communicated to the International Hydrographic Bureau, is given below. The harmonic constants will be included in a continuation to Special Publication N^o 26, to be issued shortly, but those who may desire immediate information as to these harmonic constants should forward their requests to *The International Hydrographic Bureau, Quai de Plaisance, Monte-Carlo, Principauté de Monaco.*

List of Stations the Harmonic Constants of which have not yet been published by the International Hydrographic Bureau.

S. S. S. R.

St. Phoque Bay, Gorbovi I. (Novaya Zemlja),
(St. Thomas).
Krestovaya Bay (Novaya Zemlja).
Mityuchikha Bay (Novaya Zemlja).
Matochkin Shar - E. Entr. (Novaya Zemlja).
Matochkin Shar - W. Entr. (Novaya Zemlja).
Pukhovoy Bay (Novaya Zemlja).
Byelushya Bay (Novaya Zemlja).
Sokoli I. (Yugorski Shar), E. Entr.
Greben Cape (Yugorski Shar), W. Entr.
Petchora R.
Kolguev Is. (Bielovo Moria).
Kiya R. - Entr. (Kaninsky Zemlja).
Mezen R. - Entr. (Bielovo Moria).
Morzhovetz I. »
Intzy Point. »
Moudyugski I. »
Lapominski Port »
Solombala I. (Arkhangelsk).
Unskaya Bay (Bielovo Moria).
Zhizhginsk I. »
Chesmenski Cape »
Paskanetz I. »
Borschovetz Berezhnoi (Bielovo Moria).
Lukovatie I. »
Kem (Popov I.). »
Gridino Bay. »
Kandalaksha. »
Porya Bay. »
Sosnovetz I. (Gorlo Bielovo Moria).
Tri Ostrova (Kechniak I.) - (Gorlo Bielovo
Moria).

Orlov Cape (Gorlo Bielovo Moria).
Gorodetski Cape - S.S.S.R. - N. Coast.
Yokanskie Is. - Gremikha Bay - S.S.S.R. -
N. Coast.
Teriberka - S.S.S.R. - N. Coast.
Moguilnoe (Kildin I.) - S.S.S.R. - N. Coast.
Bazarnaya Bay (Kola) - S.S.S.R. - N. Coast.
Ekaterininskaya (Mourman).
Ekaterininskaya (Mourman).
Vaida Bay (Rybatchie Archipel.) (Mourman).

NORGE.

Narvik.

NEDERLAND.

Terschellinger Bank L. V.
Haaks L. V.
Maas L. V.
Schouwen Bank L. V.
Noord Hinder L. V.

PORTUGAL.

Lisboa (Arsenal).
Lisboa (Cascaes).
Ponta Delgada (Azores).

JUGOSLAVIA.

Zengg.

EGYPT.

Alexandria (El Iskanderia).

IRAQ.

Basra.

NEDERLANDSCHE OOST - INDIE

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Sigli.....	»	»
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Idi	»	East Coast.
Langsa Baai	»	»
Aroe Baai (Sembilan geul).....	»	»
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Soensang (Mouth Palembang River).....	»	»
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Poeloe Nangka (Middle of Banka Strait).....	»	»
Tandjoeng Pandang (W. Coast Billiton Is.).....	»	»
Poeloe Langkoeas (N.W. Point of Billiton).....	»	»
Manggar (Entrance Manggar River).....	Billiton Is.	East Coast.
Linggang River (Gantoeng).....	»	»
Ondiepwater Is. (South Entrance Gaspar Straits)	Sumatra.....	East Coast.
Toelang Bawang River.....	Sumatra.....	»
Teloekbetoeng (Lampung Bay)	»	South Coast (Sunda Strait)
Laboean Bangkai (N. Coast of Po. Sebockoe).....	»	»
Kota Agoeng (Semangka Bay)	»	»
Kroe.....	»	»
Eggano Is.	»	West Coast.
Benkoelen.....	»	»
Sawangtoengko (Strait Sikakap) - Pagai Islands.	»	»
Moeara Siberoet (E. Coast Siberoet Is.).....	»	»
Emma Harbour (Padang)	»	»
Poeloe Tello (Batoe Is.)	»	»
Ajerbangis	»	»
Natal.....	»	»
Telok Dalam (S. Coast of Nias)	»	»
Goenoeng Sitoli (E. Coast of Nias Is.).....	»	»
Simanari Bay (N. Coast of Nias).....	»	»
Sibolga (Tapanoeli Bay).....	»	»
Baroes.....	»	»
Singkel.....	»	»
Sinabang Bay (E. Coast Simaloer Is.).....	»	»
Tapa Toean.....	»	»
Meulaboh	»	»
Tjalang.....	»	»
Poeloe Raja.....	»	»
Poeloe Roesa	»	»

BORNEO. — WEST, SOUTH & EAST COASTS & ADJACENT ISLANDS :

Po. Laet (N. Natoena Is.)	N.W. of Borneo.	South China Sea.
Sedanau (Groot Natoena Is. - W. Coast)	»	»
Soebi Islets (S. Natoena Is.)	»	»

Po. Serasan (S. Natoena Is.).....	N.W. of Borneo.	South China Sea.
Zuid Hooiberg Is. (S. Natoena Is.).....	»	»
Tandjoeng Dato (N.W. point of Borneo).....	Borneo.....	West Coast.
Paloh River (Mouth).....	»	»
Pemangkat (Mouth Sambas River).....	»	»
Tambelan Bay	West of Borneo.	South China Sea.
Tebon Islet (Badas or Watas Is.).....	»	»
Po. Temadjoe (Islet).....	Boetoeng Is. Borneo.....	West Coast.
Djoenkat.....	»	»
Kleine Kapoeas River (Outer Bar) - Fairway to Pontianak	Borneo.....	West Coast.
Pontianak	»	»
Tandjoeng Saleh.....	»	»
Soekadana	»	»
Djelai River (Entrance).....	»	South Coast.
Kota Waringin River (Entrance).....	»	»
Koemai Bay.....	»	»
Pemboeang River (Entrance)	»	»
Mendawai River (Entrance)	»	»
Kahajan River (Pangkoh).....	»	»
Barito River (Outer Bar)	»	»
Barito River (Entrance) (Near Mouth of S. Moesang Ketjil).....	»	»
Bandjermasin (Martapoera River)	»	»
Marabahan.....	»	»
Tabanio	»	»
Lima Islands.....	»	East Coast.
Kota Baroe (Laoet Strait).....	»	»
Kloempang Bay	»	»
Pamoeakan Bay	»	»
Aroe Bank	»	»
Balik Papan Bay	»	»
Koetei River (Outer Banks)	»	»
Koetei River (Head of Delta)	Tandjoeng De- wa, Borneo...	»
Samarinda (Koetei River)	Borneo.....	»
Sangkoelirang Bay.....	»	»
Tg. Birai, Ma. Garoera (Mouth of Beraoe River).	»	»
Beraoe River - Ma. Kassei (N. Mouth of Beraoe River)	»	»
Beraoe River - Bar at Kampoeng Sokkan (Head of Delta)	»	»
Beraoe River - Tandjoeng Redeb	»	»
Boeloengan River - Moeara Biwan (Mouth of Boeloengan River)	»	»
Boeloengan River - Po. Boeaja (Near mouth of S. Boeloengan).....	»	»
Boeloengan River - Tandjoeng Selor	»	»
Tarakan (Linkas)	»	»

CELEBES & ADJACENT ISLANDS :

Po. Kaloe Kaloekoeang	Celebes.....	West Coast.
Po. Dewakang	»	»
De Brill Bank.....	»	»
Makasser.....	»	»
Paré Paré Bay.....	»	»
Madjene	»	»
Donggala	»	»
Toli Toli Bay.....	»	»

Menado	Celebes.....	West Coast.
Talisei	»	North Coast.
Taroena (Po. Sangi).....	»	»
Liroeng - Talaud Islands.....	»	»
Kema.....	»	East Coast.
Gorontalo.....	»	»
Menelili	»	»
Poso.....	»	»
Togian Bay - Togian Islands.....	»	»
Teloek Lamala.....	»	»
Kintong.....	»	»
Moemoe	»	»
Banggai - Banggai Islands.....	»	»
Boengkoe.....	»	»
Poeloe Kokoila - Manoei Islands.....	»	»
Wadjo Bay (Boeton Is. - E. Coast).....	»	»
Boeton (Strait Boeton).....	»	»
Bola (S.W. Coast of Boeton Is.).....	»	»
Tampona Woh (W. Coast of Moena Is.)	»	S. E. Coast.
Po. Galla Besar (Tioro Strait).....	»	»
Poeloe Baleara (N.W. Coast of Kabaena Is.)...	»	»
Kadjang (S.W. side of Gulf of Boni)	»	South Coast.
Bonthain.....	»	»
Benteng (W. Coast of Saleier Isle).....	»	»
Po. Pasi Teloe Tengah - Tiger Islands.....	»	»
Kg. Boné Raté (W. Coast of Po. Boné Raté)	»	»

JAVA & MADOERA & ADJACENT ISLANDS :

Patjitan	Java	South Coast.
Tjilatjap	»	»
Genteng Bay.....	»	»
Palaboean Ratee.....	»	»
Laboehan	»	West Coast.
Java's 4de Punt.....	»	»
Merak (Poeloemerak)	»	»
Thousand Islands.....	»	North Coast.
Edam Island.....	»	»
Batavia	»	»
Tandjoeng Priok	»	»
Boompjes Island.....	»	»
Cheribon.....	»	»
Tegal	»	»
Pekalongan.....	»	»
Karimoen Djawa - Karimoen Djawa Islands...	»	»
Semarang	»	»
Rembang.....	»	»
Toeban	»	»
Sangkopoera Bay (S. Coast of Bawean Islands).	»	»
Oedjoeng Pangka (Western Entrance to Soera- baja)	»	»
Tandjoeng Modoeng (Arosbaja) (Western En- trance to Soerabaja).....	Madoera Island.	
Kg. Amboenten (N. Coast of Madoera Is.)	Java	North Coast.
Kalianget (S.E. Madoera Is.)	»	»
Sembilangan (inside Western entrance to Soera- baja)	Madoera Island.	West Coast.
Soerabaja (Western Entrance)	Java	North Coast.
Soerabaja Harbour	»	»
Soerabaja (Eastern Entrance).....	»	»
Gading (N. Shore of Eastern Entrance to Soera- baja)	Madoera Island.	South Coast.

Zwaantjes Droogte (Approach of Eastern Entrance to Soerabaja)	Strait Madoera.	W. end.
Paseroean.....	»	Java Shore.
Meinderts Droogte	Java	North Coast.
Duiven Eiland (Strait Bali).....	»	East Coast.
Banjoewangi	»	»
Po. Sapoedi.....	Sapoedi Islands.	
Po. Telangoe	»	
Saoebi	Kangean Islands	

LESSER SOENDA ISLANDS :

Boeieleng	Bali Island.....	North Coast.
Teloek Padang	»	East Coast.
Sanoer	»	»
Ampenan.....	Lombok Is.	»
Laboean Tring Bay	»	West Coast.
Po. Sailoes.....	Paternoster Is.	
Po. Sapoeka Besar.....	Postiljon Isl....	
Bima	Soembawa Is....	North Coast.
Sapé Bay	» ..	East Coast.
Waworada Bay.....	» ..	South Coast.
Telok Slawi	Komodo Is.....	East Coast.
Telok Perapat	Flores Is.	West Coast.
Linteh.....	»	»
Laboean Badjo	»	»
Maoemere	»	North Coast.
Endé	»	South Coast.
Nangamessi Bay	Soemba Is.....	N. E. Coast.
Sendikeri Bay	»	S. W. Coast.
Lamakera Bay	Solor Is.	N. E. Point.
Kabir	Pantar Is.	N. W. Coast.
Kalabahi.....	Alor Island.....	West Coast.
Atapoepoe.....	Timor Island...	North Coast.
Koepang.....	» ..	West Coast.
Saenamo (Loré)	» ..	S. E. Coast.
Liran Island (East Coast).....	Wetar Island....	near S. W. Point.

MOLUCCA ARCHIPELAGO(Arch. East of Celebes; North of Banda Sea; West of Nieuw Guinea Islands).
 BANDA, WATOEBELA, CERAM, BOEROE, SOELA, OMBI, MISOOL, BATJAN & HALMAHERA
 ISLANDS & ADJACENT ISLETS.

Banda Harbour.....	Banda Islands..	
Po. Tioor	Watoebela Is. ..	
Po. Geser.....	Ceram Is. -	
	Laet Is. -	S. E. Coast.
Boela Bay.....	Ceram Is.	East Coast.
Taniwel.....	»	North Coast.
Ambon Bay	Ambon Is.	S. Coast of Ceram Is.
Tifoe Bay.....	Boeroe Is.	South Coast.
Kajeli Bay.....	»	East Coast.
Bara Bay	»	North Coast.
Sanana.....	Soela Is.....	E. Coast of Soela Besi Is.
Vesuvius Bay	»	Po. Mangoli S. Coast.
Gela (Po. Taliaboe N. Coast).....	»	
Dofa (Po. Taliaboe N. Coast)	»	
Laiwoei	Ombi Is.....	N. W. Coast.
Wai Lower.....	»	South Coast.
Waigama	Misool Is.	North Coast.
Laboeha.....	Batjan Is.	West Coast.
Sabatang.....	»	N. E. Coast.

Gane Bay.....	Halmahera Is...	S. W. Coast.
Ternate Island, East Coast	»	West Coast.
Asimiro	»	N. W. Coast.
Galela Bay.....	»	East Coast.
Kaoe	»	»
Boeli Bay	»	»
Bitjoli.....	»	»
Tepelieu	»	»
Patani.....	»	»

SERMATA ISLANDS (KISSER, ROMA, LETI, DAMAR & BABAR ISLANDS) :

Waurili	Kisser Island...	West Coast.
Telok Solat (E. Coast of Po. Damar).....	Damar Islands.	
Tepa (W. Coast Po. Babar)	Babar Islands.	

TANIMBAR ISLANDS :

Ritabel.....	Larat Island ...	West Coast.
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KEI & AROE, ISLANDS :

Toeal (Toeal Islet).....	Kei Islands.	
Bandar Elat (E. Coast of Po. Noehoe Tjoet)..	»	
Dobo.....	Aroe Islands.	

NIEUW GUINEA & ADJACENT ISLANDS :

Merauke.....	Nieuw Guinea...	S. W. Coast.
River Digoel (Entrance).....	» ...	»
Lakahia	» ...	»
Etna Bay, Entrance.....	» ...	»
Kaimana Bay	» ...	»
Fak Fak	» ...	»
Bay of Sekar (S. side entrance of MacCluer Gulf).	» ...	West Coast.
Modan (East end of MacCluer Gulf).....	» ...	»
Kais River, Entrance.....	» ...	»
Waronge River, Entrance.....	» ...	»
Kaiboos River, Entrance	» ...	»
Karabra River, Entrance	» ...	»
Kobalin River, Entrance.....	» ...	»
Peli Islet (S. Entrance of Strait Sele).....	» ...	»
Sailolof (Salawati Is., W. Coast)	» ...	»
Oenaginim Island - in Sele Strait.....	» ...	»
Samate (Sele Strait)	» ...	»
Sorong (East side of N. entrance, Sele Strait)...	» ...	»
Po. Jef Doif (Snapan) (W. side of entrance Strait Sele).....	» ...	»
Dokker (South side Dampier Strait).....	» ...	North Coast.
Moetoos Besar (North side W. entrance Dampier Strait)	» ...	»
Saonek (North side of Dampier Strait).....	» ...	»
Ajoe - Ajoe Is.	» ...	»
Dorei Hoem Bay.....	» ...	»
Manokwari	» ...	»
Sjeri (Geelvink Bay, W. shore).....	» ...	»
Jende (W. Coast of Roon Is.) (Geelvink Bay)..	» ...	»
Kwatisore Bay (W. shore Geelvink Bay).....	» ...	»
Moor Islets (S. E. shore of Geelvink Bay).....	» ...	»
Jenmanoe (N. Coast of Po. Noemfor) - in Geelvink Bay.....	» ...	»
Korim	» ...	»
Seroei (S. Coast of Japen Is.) - Geelvink Bay...	» ...	»
Sarmi	» ...	»
Denta Bay.....	» ...	»
Hollandia Bay	» ...	»

INDO-CHINE.

Cangio.

CHINA.

Macao.

Amoy.

Tungsha L. V.

Woosung.

Plover Point.

Kiangin.

Shanghai.

Shanghai (Public Garden).

Tang Luan Tsu (Miau Tao Is.).

Nan Fan Chen Tao (Miau Tao Is.).

Taku.

Tien Tsin.

NIPPON (JAPAN).

KWANG TUNG BAY.

Schichon Tao.

Chan Tao (Pu Lan Tien).

Daikokuseki.

Yang Tau Wa.

Ryozyun Kô.

Hsiaoping Tao (Western Entrance).

Dairen Wan (Dairen Nai-Kô).

Taakû Kô.

Tseng Chia Tun (China).

Tsao Tao (China).

Ta Ku Sham Road (China).

Oryoku Kô (Antung).

TYÔSEN (*West Coast*).

Ryûganpo (Non-am Po).

Tasi Tô.

Banzyo Rettô (En Tô).

Kato.

Rô Tô (Napu Somu).

Unmu Tô.

DAIDO Kô (TEDON GAN).

Soku Tô.

Hi Tô.

Tetu Tô - Tyoru Tô.

Orunei Tô.

Daisei Tô - Taityoku Tô.

Zyun-i Tô.

Mo Tô (Kotu Semi).

Tyumon Tô.

Eisô Tô.

Tokuseki Tô.

So Tô.

Gensantô - Onsan Tô.

Oiyonu Tô - Veyon Tô - Pikken Tô.

Osei Tô - Otyon Tô.

Tiku Tô - Tui Somu.

Kokunsan Guntô Daityôri.

Anba Tô.

Rôroku Tô.

Kanpei Wan - Hamupyon Wan.

Mokuho Kô.

RASÛ GUNTÔ.

Hokkô Suidô - Pukkan Suidô - Tyaon Tô.

Pigumu Suidô.

Hakkôho - Parruten Po - Tonti Tô.

Katai Tô.

Tin Tô.

Zyôtyo Tô - Sanse Somu.

Tin Tô - Kapu Tô.

Gobaro Tô.

TYÔSEN (*South Coast*).

Saisyû Tô.

Kahokuri - Huwakupuni.

U Tô Suidô.

Seikiho.

Syoan Kô.

Batô Suidô.

San Tô.

Tyôtyokura N.

Tyôtyokura E.

Sontiku Tô.

Kyokin Suidô.

Rarô Rettô - Sayan Tô.

Zyozi Wan - Tyobaru Tô.

Kabakuyô.

Sinzyu.

Daryô Tô.

Kozyô Wan.

Kendairyô.

Tikurinpo.

Kyosai Tô.

Tinkai Wan, Kazyo Tô.

Situsen Tô.

Mazan Po.

Katoku Tô.

Husan Kô.

TYÔSEN (*East Coast*).

Urusan Kô.

Geizitu Wan.

Tyûzanpo.

Tikuhén Wan.

Uturyô Tô.

Tyumonsin.

Tyôsendô.

Seikosin.

Simpô.

Syako Wan.

Zyôsin.

Dairyôka Wan.

Syasin Wan.

Yûki Wan.

PROVINCE LITTORALE RUSSE.

Baie Tiutcho, Province Littorale Russe.

Cap Vsuyechni.

Imperatorskaya.

Vanina Bay.

Starka Bay.

Castries Bay, Détroit Jartor.

Pilevo (Sakhalin W.).

Alexandrovski (Sakhalin W.).
 Cap Tuik " "
 Cap Chikhacheva.
 Cap Lazareva.
 Cap Sushcheva, Province Littorale Russe.
 Cap Mouravieva, " "
 Uyuzyut I.
 Amur River, Chinuirrakh.
 Cheushi I.
 Ile Langr, Mer d'Okhotsk.
 Lunski Road.
 Chai Vo.
 Kakr Vo.
 Kuegda.
 Golfe Baïkal (Sakhalin), Mer d'Okhotsk.
 Tamlevo.
 Baie Abrek (Petite Ile Shantar), Mer
 d'Okhotsk.
 Baie Lebiaja (Petite Ile Shantar), Mer
 d'Okhotsk.
 Baie Udski (Entrée de la Rivière Uda), Mer
 d'Okhotsk.
 Baie Ayane, Mer d'Okhotsk.
 Baie Nagaïev, " "
 Baie Udacha, " "
 Cap Matouga, " "
 Cap Astronomicheski, Mer d'Okhotsk.
 Petropawlosk, Kamchatka.
 Baie d'Anadyr, Sibérie (Côte Est).
 Pitlekay (Kolutchmiskaïa), Sibérie.
 R. Koluïma.
 Ile Kotelni, Sibérie.
 Entrée de la Rivière Lena, Sibérie.
 Rade de Zarya, Sibérie.
 Port Dikson (Ile Vernsa), Sibérie.
 Cap Sopotchnaïa Korgua, Embouchure du
 Yenisseï.
 Ile Nassonovsky, Embouchure de l'Ob.
 Cap Kamenni (Golfe d'Ob), Russie (Côte
 Nord).
 Novy Port, Embouchure de l'Ob.
 Cap Pante (Peninsule Jamal), Russie (Côte
 Nord).
 Cap Morrasale, Russie (Côte Nord).

NIPPON (JAPAN).

KARAHUTO (*West Coast*).

Kitasôya.
 Kitanayosi.
 Usiro Wan.
 Notu Misaki.
 Notasamu.
 Maoka Kô (Hontomari).
 Honto Kô.
 Kaiba Tô.
 Sôni Misaki.
 Nisi-Notoro Misaki (West Coast).

KARAHUTO (*East Coast*).

Nisi-Notoro Misaki (East Coast, Kotomari).
 Otomari Kô.
 Tôbuti Kô.

Minabetu.
 Airô Wan (Higasi-Porotomari).
 Tomunai (Idesetomari).
 Ontô Numa.
 Nosamu.
 Sakaehama.
 Kitanoboriho.
 Higasi-Sirutoru.
 Sikuka.
 Taraïka Kawa entrance.
 Noto.
 Minami-Hunakosi.
 Kaihyô Tô.
 Karuho Misaki.

TISIMA ISLANDS.

Kunasiri Zima.

Tomari Wan.
 Hurukamappu Wan.

Etorohu Zima.

Iribubusi.
 Hitokappu Wan.
 Moyoro Wan.
 Sibetoro.
 Syamanbe.
 Syana Wan (Nayoka).
 Naïbo Wan.

Uruppu Zima.

Turigane Wan.
 Tokotan Wan.
 Garan Saki.
 Yosino Hama.

Tirihoi Zima.

Tirihoi Tô.

Sinziru Zima.

Simusiru Wan.
 Buroton Wan.

Usisiru Zima.

Usisiru Tô.

Matuwa Zima.

Matuwa Tô.

Syasukotan Zima.

Higasi Ura.
 Otome Wan.

Onekotan Zima.

Kuroïsi Wan.
 Siomi Ura.

Paramusiru Tô.

Kabari.
 Otomae Wan.
 Yotuiwa.
 Banzÿô Saki.

Kakumabetu Wan.
Kusira Wan.

Simusyu Tô.
Kataoka Wan.
Nakagawa Wan.
Kotomari.

Araido Tô.
Araido Tô.

HOKUSYÛ (YESO) (*East Coast*).

Nemuro Kô.
Goyômai Suidô (Suisyô Zima).
Taraku Zima.
Syakotan Kô (Sikotan Zima).
Koiseboi.
Abasiri.
Monbetu.
Omu.
Esasi.

HOKUSYÛ (*West Coast*).

Wakkanai Kô.
Risiri Tô (Osidomari Wan).
Tomamae.
Rûmoi Kô.
Moe.
Kamoi Misaki.
Iwanai Kô.
Suttu Kô.
Setana Kô (Baikatu).
Okusiri Zima (Aonae Wan).
Esasi Kô (Kamome Sima).
Yosioka.

HOKUSYÛ (*South Coast*).

Wakimoto.
Hakodate Kô.
Siokubi Saki.
Usuziri Wan.

Iburu Wan.

Mori Kô.
Usu Wan.
Muroan Kô.
Utarô.
Moyori (Rupesibetu).
Kusiro Kô.
Akkesi Wan.
Hamanaka Wan (Kiritappu Zima).

HONSYÛ (*North Coast*).

Otiisi.
Ohata.

HONSYÛ (*East Coast*).

Same Kô.
Miyako Kô.
Yamada Kô.
Kesenuma Wan.
Oginohama.
Nobizu Wan (Sameura).

Isihama.
Onahama Wan.
Hirakata.
Tyôsi.
Inubô Saki (Nagasaki).
Katuura Wan.
Nosima Saki (Otohamana).

HONSYÛ (*South Coast*).

Tokyo Kaiwan.

Tateyama Wan (Hunagata).
Huttu.
Sinagawa.
Tokyo.
Yokosuka Kô.
Nagaura Kô.
Uraga Kô.
Hasirimizu.
Kaneda Wan.
Kotô Wan.
Osima, Habu Kô.
Sikine Zima.
Titi Zima, Hutami Kô.
Haba Zima, Oki Kô.
Tô Tô (Nisi).
Simoda Kô.
Mera.
Tago Kô.
Enoura.
Simizu Kô.
Omai Saki.
Saku Sima.

Iseno Umi.

Yokkaiti Kô.
Iseno Umi, Tu.
Toba Kô.
Matoya Kô.
Ago Wan (Hamasima).
Gokayso Kô.
Owasi Wan (Hikimoto Ura).
Katuura Wan.
Uragami Kô.
Osima Kô.
Susami.
Tanabe Wan.
Gobo (Mio).
Hii Wan.
Osaki.
Simotu.
Wakanoura Wan (Dezima).

SIKOKU (*South Coast*).

Urato Kô.
Susaki Kô.
Uwazima Wan.
Yawatahama Kô.

KYÛSYÛ (*East Coast*).

Saeki Wan (Onyû Sima).
Inokusi Kô.
Mimitu.

KYŪSYŪ (South Coast).

Tonoura.
 Aburatu.
 Ariake Wan (Imamati).
 Odomari Wan.
 Kagosima Kô.
 Yamagawa Kô.
 Tomari Ura (Bônotu).
 Nakagaharaura (Kosiki Rettô).
 Akune.

*SOUTHWESTERN ISLANDS OF JAPAN.**TANEGA SIMA.*

Nisinoomote Wan.
 Oura (Kumano Kawa, Entrance).

YAKU SIMA.

Issô.
 Kutinoerabu Sima (Kutinoerabu Wan).

TOKARA GUNTÔ.

Nakano Sima.
 Takara Zima.

AMAMI OSIMA.

Kasari Wan.
 Kuzi Wan.
 Yakiuti Wan (Uken).
 Sumiyô Wan.
 Kikai Zima (Somati).
 Uke Sima.

TOKUNO SIMA.

Yamamura Wan.
 Okinoerabu Zima (Wadomari).

OKINAWA GUNTÔ.

Gazya (Iheya Zima).
 Unten Kô.
 Sesoko.
 Naha Kô.
 Oura Wan (Sutuku).
 Kerama Kaikyô (Zamami).
 Kume Sima (Gima Kô).
 Miyako Zima (Karimata).
 Taketomi Zima, Isigaki.
 Iriomote Zima (Hunauke Kô).

TAIWAN.

Soô Wan.
 Seikôô.
 Karoran.
 Hoisyô Tô (Namuryô Wan).
 Kôtô Syô (Antau Sû).
 Toapanraa.
 Tyaasyan.
 Tankan.
 Anpin Kô.
 Kokusin Kan.
 Pôtei.
 Haipo.

Syazan, Hoanna.
 Tokatukura Kan.
 Kôryû.
 Tansui Kô.

HÔKORETTÔ.

Gyûkô Wan.
 Gyoô Tô.
 Bakô Kô.
 Tamupoan Sû.

HATTÔ RETTÔ.

Syôgun Suidô.
 Sô Tô.

*KYŪSYŪ (West Coast).**Yatusiro Kai.*

Hukuroura.
 Ikenoura.

Amakusa Simo-Sima.

Usibuka Kô.
 Sakitu Wan.
 Tomioka Wan.
 Yanagino Seto.
 Senzoku Zima.
 Misumi Kô.

Simabara Kaiwan.

Miike Kô.
 Tikugo Kawa (Wakatu).
 Takezaki Zima.
 Simabara (Minato Mati).
 Kutinotu Kô.
 Kabasima Suidô.
 Kagenoo Sima.
 Nagasaki Kô (Nisidomari).
 Matusima Suidô.

Hirado Terasima Suido.

Kakiura Kô.
 Umagoma Ura.

Onura Kaiwan.

Kogo Saki.
 Tawaranoura.
 Sasebo Kô.
 Ainoura.

Hirado Terasima.

Sisiki Wan.
 Usuka Wan.
 Hirado Seto (Kuroko Sima).

*GOTO RETTÔ.**Hukae Zima.*

Hukae.
 Tomie.
 Tamanoura.
 Mizunoura.

Toki Ura.
Natui Ura.

Wakamatu Seto.
Wakamatu Ura.
Arakawa.

Nakadôri Sima.
Tainoura.
Arikawa Wan.
Uku Sima.

Kyûsvû (North Coast).

Imari Wan.
Hosika Ura.
Mikuriya.
Hase.
Hukusima S.
Hukusima W.
Kariya Kô.
Nagoya Wan.
Hukuoka Wan (Hukuoka),
Tuya Saki.
Kanega Saki.
Kurara Seto (Kane Saki).
Iwaya.
Wakamatu Kô.

Ihi.
Gôno Ura.
Kazamoto Ura.

Tusima.
Izuhara Kô.
Takahama.
Ohunakosi.

Aso Wan.
Kusubo Seto (Western Entrance).
Kusubo Seto (Eastern Entrance).
Modo Ura.
Osika.
Nisitomari Wan (Aziro).
Okawati Wan.
Miura Wan (Kamoize).
Sasuna Kô.
Tuna.
Oyama Wan.
Simayama.
Hiruga Ura.
Takesiki Kô.
Ozaki Wan (Mikata).
Ozaki.

Honsvû (Northwest Coast).

Oki.
Yosimo.
Kattoi.
Setozaki Kô, Omi Sima.
Hagi Wan (Kosigahama).
Esaki Kô.

Sagiura (Masi Ura).
Kaga Ura.
Sititui Ura.
Dozen (Hinotu Ura).
Dogo (Saigo Kô).
Sakai Kô.
Nakami (Yonago).
Sibayama Kô.
Tuiyama Kô.
Miyatu Wan (Tai).
Maizuru Kô.
Kodomari.
Obama Kô.
Nisiogawa.
Turuga Wan (Zyôgo).
Anamizu Wan (Sora).
Anamizu Wan (Nakai).
Nanao Wan (Nanao).
Ao.
Naoetu Kô.
Amase.

Sado.
Ogi Kô.
Hutami Wan (Hutami).
Ryôtu Kô.
Niigata Kô.
Kamo Kô.
Hunakawa Wan (Hunakawa).
Hukaura.
Kodomari Wan (Kodomari).
Moura Kô.
Kominato.
Ominato Kô.

NAIKAI (Eastern Part).

Naruto.
Hukura Ura.
Anaga.
Mago Saki.
Aziro.

Muyano Seto.
Tosadomari.
Dônoura.
Kitadomari Ura.

Tomoga Sima Suido.
Tomoga Sima.
Yura Kô.

Isumi Nada.
Sumoto Kô.
Osaka Kô (Azi Kawa).
Karumo Zima.

Akasi Seto.
Iwaya.
Akasi.

Harima Nada.
Murotu.

Ei.
Sikama Kô.
Ie Sima.
Otabu Zima.
Syôdo Sima (Sakate).
Syôdo Sima (Zizô Saki).
Hikeda.

Bisan Seto.

Usimado Kô (Hoden Ura).
Okayama Kô (Kogusi).
Ogi Sima.
Takamatu Kô.
Nao Sima (Miyanoura).
Uno Wan (Nao Sima, Siodôsino Seto).
Nabe Sima.
Simotui.
Tomo Tu.

Bengo Nada.

Takihama.
Kuro Sima.
Onomiti Seto.
Setoda, Ikuti Zima.
Tikami Kurusima Kaikyô (Kuru Sima).
Osaki Simo-Sima (Mitarai).
Koyô.

Hirosima Wan.

Karoto Ko-Seto.
Hayase Seto.
Onde Seto.
Yokohama.
Uzina Kô.
Miya Zima.
Ono Seto.
Sinminato.
Etauti.
Nasami Seto (Mino).
Obatake Seto (Obatake).
Yasiro Zima (Doi).
Morosima Suidô (Nasake Sima).
Oura (Naka Sima).
Iwama (Naka Sima).
Gogo Sima.

Iyo Nada.

Okikamuro Sima.
Ao Zima.
Nagahama.
Kaminoseki (Murotu).
Saganoseki.

Suo Nada.

Kakazi.
Unosima Kô (Zibato).
Tokuyama Wan (Tokuyama).
Mitaziri.
Kariya.

SIMONOSEKI KAYKYÔ.

Kusi Saki.
Iwaguro.

Maeda.
Mimosuso Gawa.
Kannon Saki.
Simonoseki (Sotohama).
Isaki.
He Saki (Aohama).
Myôzin Bana.
Mozi Tô.
Hiko Sima.
Desinati.
Tanokubi.
Tomari.
Takenoko Haedomari.

PHILIPPINES.

Sual, Luzon.
Bolinao, Luzon.
Santa Cruz, Luzon.
Olongapo, Subic Bay, Luzon.
Corregidor Island, Manila Bay, Luzon.
Manilla, Luzon.
Tabaco, Luzon.
Calbayog, Samar.
Catbalogan, Samar.
Santa Rita, Samar.
Santa Elena, Samar.
Tacloban, Leyte.
Cebu.
Point Grimalik, Guimaras.
Halsey Harbor, Culion.
Maibun, Jolo.

HAWAII.

Honolulu.

ALASKA.

Flaxman Island.
Point Barrow.
Port Clarence.
Nome, Norton Sound.
St. Michael, Norton Sound.
Avogon, Yukon River Delta.
Kwiklokchun, Yukon River Delta.
Apokak, Kuskokwim Bay.
Goodnews Bay (North Spit), Kuskokwim Bay.
Goodnews Bay (South Spit), Kuskokwim Bay.
Protection Point, Nushagak Bay.
Clark Point, Nushagak Bay.
St. Paul Island, Prililof Island.
Kashega Bay, Unalaska Island.
Dutch Harbor, Unalaska Island.
Unalga Bay, Unalga Island.
Tigalda Bay, Tigalda Island.
False Pass, Aleutian Island.
Peterson Bay, Sanak Island.
King Cove, Alaska Peninsula.
Kodiak, Kodiak Island.
Knickarm Anchorage, Cook Inlet.
Chinulna Point, Cook Inlet.
Seldovia, Cook Inlet.
Port Valdez, Prince William Sound.
Rocky Point, Prince William Sound.
Camp April, Orca Bay, Prince William Sound

Orca, Prince William Sound.
 Cape Whitshed, Orca Inlet, Prince William Sound.
 Pete Dahl Slough, Copper River Delta.
 Kokinhenick Island, Copper River Delta.
 Skagway.
 Juneau.
 Hoonah, Port Frederick, Icy Strait.
 Port Althorp, Cross Sound.
 Granite Cove, Cross Sound.
 Kimshan Cove, Ogden Passage.
 Sergius Narrows, Peril Strait.
 Sitka.
 Petersburg, Wrangell Narrows.
 Port Alice, Davidson Inlet.
 Craig, Bucareli Bay.
 Ketchikan, Tongass Narrows.

BRITISH COLUMBIA.

Port Simpson.
 Prince Rupert.
 Wadhams River Inlet.
 Knox Bay, Johnstone Strait.
 Chatham Point.
 Whaletown.
 Seymour Narrows.
 Quathiaski Cove, Discovery Passage.
 Clayoquot.
 Vancouver, Burrard Inlet.
 Sand Heads.
 Victoria, Vancouver.

UNITED STATES OF AMERICA.

Yokeko Point, Deception Pass, Wash.
 Reservation Bay, Deception Pass, Wash.
 Seattle (Madison St.), Puget Sound, Wash.
 Port Townsend, Admiralty Inlet, Wash.
 Aberdeen, Grays Harbor, Wash.
 Astoria (Tongue Point), Columbia River, Or.
 Astoria (Town), Columbia River, Or.
 Humboldt Bay, Cal.
 Sansalito, San Francisco Bay, Cal.
 San Francisco (Presidio), Cal.
 San Francisco (Port Point), Cal.
 Morro, Cal.
 San Diego, Cal.

MEXICO.

Mazatlan.
 Baie Magdalena.
 San Juanico
 Ballenas.
 Victoria.
 Brisbane.

ARGENTINA.

Bahia Ushuaia.

WEST INDIES.

Port Castries, Santa Lucia.
 Saint-Thomas.
 Great Harbor, Camp Roosevelt, Culehbra Isl.
 San Juan, Porto Rico.

Ponce, Porto Rico.
 Port au Prince, Haiti.
 Nassau, Bahamas.

MEXICO.

Colon.
 Cristobal.
 Campeche.
 Vera Cruz.
 Tampico.

UNITED STATES OF AMERICA.

Galveston (20th. St.), Galveston Bay, Tex.
 Galveston (Doswell's Wharf), Galveston Bay, Tex.
 Galveston (Fort Point), Tex.
 Port Eeds, La.
 Pass Manchac Light, Lake Ponchartrain, La.
 West End, Lake Ponchartrain, La.
 Cat Island, Mississippi Sound.
 Biloxi, Miss.
 Mobile Point Light, Mobile Bay, Flo.
 Pensacola, Pensacola Bay, Flo.
 Warrington Navy Yard, Pensacola Bay, Flo.
 St. Marks, Flo.
 Cedar Kegs, Flo.
 Tortugas, Flo.
 Key West (Curry's Wharf), Flo.
 Key West (Naval Station), Flo.
 Key West (Fort Taylor), Flo.
 Fernandina (Desoto St.), Flo.
 Fernandina (Fort Clinch), Flo.
 Sapelo Sound, Quarantine Station, G.
 Savannah (Water Works), Savannah River, Sa.
 Savannah (Fort Jackson), Savannah River, Sa.
 Tybee Light, Savannah River, Sa.
 Charleston, Custom House Wharf, S. C.
 Wolmington, Cape Ear River, N. C.
 Richmond, James River, Va.
 Old Point Comfort, Chesapeake Bay, Va.
 Stingray Light, Chesapeake Bay, Va.
 Great Wicomico Light, Chesapeake Bay, Va.
 Washington (Navy Yard), Potomac River, D. C.
 Washington (Washington Channel), Potomac River, D. C.
 Holland Island Bar Light, Chesapeake Bay, Md.
 Drum Point Light, Chesapeake Bay, Md.
 Sharp Island Light, »
 Thomas Point Shoal Light, »
 Love Point Light, »
 Seven Foot Knoll Light, »
 Baltimore (Fort Mc. Henry), »
 Baltimore (Fells Point), »
 Pooles Island Light, »
 Elk River Entrance, »
 Chesapeake City, »
 Breakwater Harbor, Delaware Bay, Del.
 Delaware City, Delaware River, Del.

Philadelphia (Chesnut St.), Delaware River,
Pa.
Philadelphia (Washington Ave), Delaware
River, Pa.
Atlantic City, Million Dollar Pier, N.J.
Sandy Hook, N.J.
Albany, Hudson River, N.Y.
New York (The Battery).
New York (Governors Islands), N.Y.
New York (Fort Hamilton), N.Y.
Willetts Point (Long Island Sound), N.Y.
New London (Naval Station), Thawes River,
Corin.
New London (Fort Trumbull), Thawes River,
Corin.
Providence, Narragansett Bay, R.I.
Bristol, »
Newport, »
Cape Cod, Canal West, Mass.
Cape Cod, Canal East, Mass.
Boston (Grumonwealth Pier), Mass.
Boston (Navy Yard), Mass.
Portland, Maine.
Pulpit Harbor, Maine.
Eastport, Maine.
Duluth, Lake Superior, Minn.
Marquette, Lake Superior, Mich.

CANADA.

St. John (New Brunswick).
Halifax (Nova Scotia).

Saint-Paul Is.
Charlottetown.
Québec.
Father Point.
S. W. Point Anticosti.
St. Johns (Newfoundland).
Forteau Bay.
Port Burwell.
Ashe Inlet.
Stupart's Bay.
Port Laperrière.
Port Boncherville.

ARCTIC.

Kingua Fiord, Cumberland Sound.
Bowdoin Harbor, Baffin Land.
Port Kennedy, Bellot Strait.
Port Leopold, North Somerset.
Beachy Island, North Devon.
Winter Harbor, Melville Island.
Penny Strait, Grinell Peninsula, North De-
von Island.
Fort Conger, Grant Land.
Cape Sheridan, Grant Land.
Point Aldrich, Grant Land.
Cape Bryant, Greenland.
Polaris Bay, Greenland.
Rensselaer, Greenland.
Port Foulke, Greenland.
Godthaab, Greenland.
Nannortalik, Greenland.

