

TIDES AND CURRENTS WORLD DATABASE V.10

Here are the details of all changes you will find in this new version:

TIDES

- ARGENTINA:

- . removal of 5 secondary stations redundant with a primary station
 - * Quequen
 - * Santa Elena, Puerto
 - * Golfo Nuevo: Puerto Madryn
 - * Golfo San Jorge: Comodoro Rivadavia
 - * Puerto Deseado
- . repositioning of 18 secondary stations
 - * Isla Escondida
 - * Bahia Camarones
 - * Bahia Cruz
 - * Cabo Raso
 - * Bahia Engano
 - * Punta Delgada
 - * Golfo Nuevo: Punta Ninfas (Fondeadero)
 - * Golfo Nuevo: Puerto Piramide
 - * Caleta Valdes
 - * Golfo San Jose: La Argentina (Fondeadero)
 - * Golfo San Jorge: Caleta Leones
 - * Golfo San Jorge: Bahia Gil (Caleta Horno)
 - * Golfo San Jorge: Puerto Melo
 - * Golfo San Jorge: Isla Tova
 - * Golfo San Jorge: Bahia Bustamente
 - * Bahia Oso Marino
 - * Bahia Laura
 - * Rio Grande (Muelle)
- . renaming 1 secondary station: Golfo Nuevo: Puerto Piramides -> Golfo Nuevo: Puerto Piramide

- AUSTRALIA:

- . full update with the 2014 official data
- . removal of 1 secondary station redundant (MARION REEF) with the primary station
- . removal of 4 secondary stations redundant with another secondary station:
 - * CAPE GREY
 - * HIGH I.
 - * TWEED R.
 - * WITHNELL POINT

- BAHAMAS: removal of 1 secondary station redundant ("Hawks Nest Anchorage, Turks Islands") with a primary station

- BANGLADESH:
 - . update with the 2014 official data of 2 primary stations
 - . creation of 11 new stations

- BONAIRE: renaming 1 primary station: Kralendjik, Bonaire (2) -> Kralendjik, Bonaire

- BRAZIL:
 - .removal of 3 primary stations redundant with another primary station
 - * Madre de Deus, Brazil
 - * Santos, Brazil (2)
 - * Rio de Janeiro, Brazil (2)
 - . repositioning of 1 primary station (Rio de Janeiro, Brazil)
 - . repositioning of 21 secondary stations
 - * Guarapari
 - * Sao Joao da Barra
 - * Armacao dos Buzios
 - * Macae (Imbitiba Bay)
 - * Itacurussa
 - * Parati
 - * Cumuruxatiba
 - * Caravelas
 - * Canavieiras
 - * Morro de Sao Paulo
 - * Abrolhos Anchorage
 - * Camamu
 - * Rio Sao Fransisco (bar)
 - * Fortaleza
 - * Rio Ceara
 - * Camocim
 - * Luis Correia
 - * Santana, Recifes de
 - * Ilhas de Sao Joao
 - * Rocas, Atol das
 - * Fernando de Noronha
 - . removal of 13 secondary stations redundant with a primary station
 - * Vitoria
 - * Rio de Janeiro
 - * Sao Sebastiao
 - * Santos
 - * Paranagua
 - * Salvador
 - * Ponta da Areia
 - * Aracaju
 - * Maceio
 - * Natal
 - * Cabedelo
 - * Macau, Rio Acu

* Tutoia, baia da

- CANADA:

- . renaming 1 primary station: PELHAM BAY, BELCHER CH -> PELHAM BAY, BELCHER CHANNEL
- . removal of 11 primary stations redundant with another primary station:
 - * BACK BAY
 - * BELCHER CHANNEL
 - * GROS CACOUNA
 - * CLIFF COVE
 - * E.NAR.,SKIDEGATE CH.
 - * MALIBU OUTER
 - * WAINRIGHT BASIN
 - * SOUTH LUBEC
 - * PARKERS COVE (TG1A)
 - * TIVERTON (BOAR'S HD)
 - * MAPLE BAY B C
- . removal of 1 obsolete primary station: STORM BAY
- . removal of 1 obsolete secondary station: STORM BAY

- CAROLINE ISLANDS: removal of 1 primary station redundant ("Ponape Harbor, Caroline Islands (2)") with another primary station

- CHILE:

- . correction of the timezone of 1 primary station: Puerto Montt, Chile
- . renaming 6 secondary stations:
 - * Bahia San Felipe -> Bahia Felipe
 - * Dungeness -> Punta Dungeness
 - * Golfo de Corvocado: Castro, G. de Corvocado -> Golfo de Corvocado: Castro
 - * Golfo de Corvocado: Puerto Quellon, G. de Corvocado -> Golfo de Corvocado: Puerto Quellon
 - * Golfo de Corvocado: Puerto Queilen, G. de Corvocado -> Golfo de Corvocado: Puerto Queilen
 - * Roca Remolinos, Canal Chaco -> Roca Remolinos, Canal Chacao
- . repositioning of 56 secondary stations
 - * Bahia Felipe
 - * Segunda Angostura
 - * Puerto Zenteno
 - * Bahia Santiago
 - * Bahia Posesion
 - * Banco Direccion
 - * Punta Catalina
 - * Punta Dungeness
 - * Puerto del Hambre
 - * Puerto Gallant
 - * Bahia Snug
 - * Puerto San Antonio
 - * Bahia Wood
 - * Golfo de Ancud: Puerto Quemchi
 - * Golfo de Corvocado: Castro
 - * Golfo de Corvocado: Puerto Quellon

- * Golfo de Corvocado: Puerto Queilen
 - * Golfo de Ancud: Paso Tautil
 - * Golfo de Ancud: Paso Lagartija
 - * Maullin, Rio Maullin
 - * Roca Remolinos, Canal Chacao
 - * Golfo de Ancud: Bahia Linao
 - * Queule
 - * Valdivia, Rio Valdivia
 - * Corral, Bahia Corral
 - * Caleta la Hacienda, I. Mocha
 - * Rio Imperial entrance
 - * Bahia Lota, Bahia Arauco
 - * Puerto Yana
 - * Puerto Lebu
 - * Bahia Coliumo
 - * Isla Santa Maria
 - * Constitution, Rio Maule ent.
 - * Curanipe
 - * Rada Pichilemu
 - * Llico
 - * Rada Quintay
 - * Algarrobo
 - * San Antonio
 - * Pichidangui
 - * Papudo
 - * Zapallar
 - * Quintero
 - * Caleta Oscuro
 - * Los Vilos
 - * Bahia Tongoy
 - * Caleta Totoralillo
 - * Huasco
 - * Caleta Barranquillas
 - * Chanaral de las Animas
 - * Puerto Flamenco
 - * Taltal
 - * Blanco Encalada
 - * Cobija
 - * Pisagua
 - * Caleta Junin
- . removal of 10 secondary stations redundant with a primary station
- * Punta Arenas
 - * Cabo Pablo
 - * Puerto Montt, Seno Reloncavi
 - * Carelmapu, Canal Chacao
 - * Valparaiso
 - * Coquimbo
 - * Caldera

- * Antofagasta
- * Iquique
- * Arica

- CHINA: removal of 3 primary stations redundant with another primary station
 - . Pei-Hai, China (2)
 - . Swatow, China (2)
 - . Wei-Hai-Wei, China (2)

- CURACAO: removal of 1 primary station redundant ("Willemstad, Curacao (2)") with another primary station

- ECUADOR:
 - . removal of 5 secondary stations redundant with a primary station
 - * Rio Chone
 - * Puerto Bolivar
 - * Guayaquil
 - * La libertad, B. Sta Elena
 - * Bahia Manta
 - . removal of 1 primary station redundant ("La Libertad, Ecuador (2)") with another primary station
 - . repositioning of 2 secondary stations
 - * Puna
 - * Puerto de Cayo

- EL SALVADOR:
 - . removal of 1 secondary station redundant ("La Union, Cutuco") with the primary station
 - . removal of 2 primary stations redundant with another primary station
 - * La Union, El Salvador (2)
 - * La Union, El Salvador (3)

- ENGLAND:
 - . full update with the 2014 official data
 - . removal of 3 secondary stations redundant with another secondary station
 - * Christchurch (Tuckton)
 - * POOLE (RoRo Terminal)
 - * Teignmouth (Approaches)
 - . removal of 2 primary stations redundant with another primary station
 - * BRISTOL
 - * IMMINGHAM DOCK
 - . repositioning of 1 primary station
 - * TILBURY

- FRANCE: removal of 1 primary station redundant ("Pointe-a-Pitre, Guadeloupe (2)") with another primary station

- FRENCH GUYANA: removal of 2 secondary stations redundant with the primary station
 - . Iles du Salut
 - . Rio Maroni Entr

- FALKLAND ISLANDS:

- . full update with the 2014 official data
- . creation of 33 new stations

- HONG KONG:
 - . full update with the 2014 official data
 - . creation of 12 new stations
 - . removal of 1 primary station redundant ("Hong Kong, China (2)") with another primary station

- INDONESIA: removal of 1 primary station redundant ("Belawan, Sumatra, Indonesia") with another primary station

- ITALY: removal of 2 primary stations redundant with another primary station
 - . Venezia, Italy (2)
 - . Venezia, Italy (3)

- KOREA: removal of 3 primary stations redundant with another primary station
 - . Cheju, Cheju Do, South Korea (2)
 - . Inch'on, South Korea (2)
 - . Kunjan, South Korea (2)

- MALAYSIA:
 - . full update with the 2014 official data
 - . creation of 79 new stations

- MEXICO:
 - . removal of 7 primary stations redundant with another primary station
 - * Salina Cruz, Oaxaca, Mexico (2)
 - * Yavaros, Sonora, Mexico (2)
 - * San Carlos, Baja California Sur, Mexico (2)
 - * La Paz, Baja California Sur, Mexico (2)
 - * Puerto Penasco, Sonora, Mexico (2)
 - * Isla Guadalupe, Baja California Norte, Mexico (2)
 - * San Carlos, Baja California Sur, Mexico (2)
 - . removal of 1 secondary station redundant (Isla Guadalupe) with another secondary station

- MYANMAR:
 - . full update with the 2014 official data
 - . creation of 24 new stations

- NETHERLANDS: removal of 1 primary station redundant ("Terschelling, Netherlands") with another primary station

- NEW ZEALAND: removal of 2 secondary stations redundant with a primary station
 - * Greville, South Island, New Zealand (2)
 - * Okukari Bay, South Island, New Zealand (2)

- LESSER ANTILLES & VIRGIN ISLANDS:

- .removal of 3 secondary stations redundant with a primary station
 - * Pointe-a-Pitre, Guadeloupe
 - * Castries, St. Lucia
 - * Fort-de-France, Martinique

- PANAMA:
 - .removal of 2 secondary stations redundant with a primary station
 - * Cristobal
 - * Balboa
 - . removal of 1 primary station redundant with another primary station: Cristobal, Panama (2)
 - . repositioning of 1 primary station: Crsitobal, Panama

- PERU:
 - . removal of 3 secondary stations redundant with a primary station
 - * Matarani
 - * Callao
 - * Talara
 - . repositioning of 12 secondary stations
 - * Ilo
 - * Puerto San Juan
 - * Pisco
 - * Huacho
 - * Bahia Huarmey
 - * Chimbote
 - * Puerto Chicama
 - * Punta Eten
 - * Paita
 - * Bayovar
 - * Caleta Lobitos
 - * Zorritos

- PHILIPPINES:
 - . full update with the 2014 official data
 - . creation of 71 new stations

- SINGAPORE: removal of 1 primary station redundant ("Singapore (Victoria Dock) (2)") with another primary station

- SOMALIA: removal of 1 primary station redundant ("Obbia, Somalia (2)") with another primary station

- SURINAM:
 - . removal of 1 primary station redundant ("Surinam River, Surinam (2)") with another primary station
 - . removal of 1 secondary station redundant ("Suriname River Entr") with the primary station

- TAIWAN: removal of 1 primary station redundant ("Kaohsiung, Taiwan (2)") with another primary station

- TRINIDAD: removal of 1 primary station redundant ("Port of Spain, Trinidad (2)") with another primary station

- USA:
 - . Full update with the 2014 official data
 - * removal of 71 obsolete primary stations
 - * insert of 288 new primary stations
 - . removal of 2 secondary stations redundant with the primary station
 - * Ensenada, Todos Santos Bay
 - * San Carlos
 - . removal of 3 secondary stations redundant with another secondary station
 - * Troy
 - * Sawyer Key, outside, Cudjoe Channel
 - * South Newport Cut, N. Newport River
 - . removal of 1 primary station redundant ("DAUPHIN ISLAND") with another primary station
- VENEZUELA: removal of 2 secondary stations redundant with a primary station
 - . Gulf of Paria: Punta Gorda, Rio San Juan
 - . Amuay
- WALES:
 - . removal from 1 secondary station redundant with a primary station (Aberystwyth)
 - . repositioning of 1 primary station (FISHGUARD)

CURRENTS

- USA:
 - . Full update with the 2014 official data
 - . Correction of the name of 2 constituents of 4 primary stations and their 214 secondary stations
 - * Kalohi Channel
 - * The Race
 - * St. Marys River Entrance
 - * Unimak Pass
 - . Removal of 28 obsolete secondary stations
 - . Update of the amplitude of the permanent current of 4 specific primary stations (Cape Cod Canal, Deception Pass, Hell Gate and Isanotski Strait)
- England: Correction of the tides currents associate with Dover tide station