

19. GLOBAL NAVIGATION SATELLITE SYSTEM POSITIONS, HORIZONTAL DATUMS AND POSITION SHIFTS

Source: UKHO.

Former Notice 19/16 is cancelled. Additions and amendments to the former Notice are indicated by sidelines.

Satellite Navigation – World Geodetic System 1984 – Position Shifts

Some charts carry a note stating that a satellite-derived position shift cannot be determined because historically insufficient details of the horizontal datum were known. New information has made it possible to establish the relationship between the horizontal datum of some charts and WGS84 Datum. A programme of work is now underway to issue new editions of these charts that will allow positions derived from Global Navigation Satellite Systems (GNSS) to be plotted directly with no shift. In the mean time the existing Satellite-Derived Positions note should be superseded by the following information.

Positions obtained from Global Navigation Satellite Systems (GNSS), such as GPS are normally referred WGS84 Datum. To assist mariners to plot positions derived from GNSS the shifts listed below should be applied to such positions to agree with the appropriate chart. However owing to the age and quality of the source information, some detail on these charts may not be positioned accurately. Particular caution is advised when navigating in the vicinity of dangers, even when using an electronic positioning system such as GPS. See The Mariner's Handbook (NP100), for more information on satellite navigation systems, horizontal datums of charts, the use of charts and the interpretation of source data.

The derived shifts listed below will be applied to ARCS charts within the ADMIRALTY Raster Chart Service ahead of the programme of work to issue new editions of the paper charts.

These ARCS charts will be displayed referenced to WGS84 datum. This will be indicated in the explanatory text linked to the chart. Mariners are advised to check explanatory text fields when using ARCS charts from this list.

Chart	Title	Edition Date	Shift from WGS84 datum to chart horizontal datum	
			Latitude	Longitude
253	Plan of Port d'Obock	10 Nov 1995	0'·02 S	0'·02 E
253	Plan of Mouillage de Tadjoura	10 Nov 1995	0'·01 S	0'·03 E
362	Pratas Island (Tung-Sha Tao)	03 Mar 1950	0'·09 N	0'·25 W
388	Plan C Ilha da Trindade	17 Dec 1993	0'·18 N	0'·05 E
388	Plan E Ilhas Martin Vaz	17 Dec 1993	0'·06 N	0'·34 E
463	Plan of Punta Cabarete to Punta Brimball	23 Aug 1985	0'·55 N	0'·34 E
463	Plan of Punta Mangle to Pointe Yaquezi	23 Aug 1985	0'·66 N	0'·15 W
463	Plan of Bahia de Samana and Approaches	23 Aug 1985	0'·35 N	0'·42 E
463	Plan of Bahia de Monte Cristi	23 Aug 1985	0'·67 N	0'·14 W
465	Plan of Fort Liberte to Ile de la Tortue	16 Sep 2004	0'·73 N	0'·12 W
465	Plan of Port de Paix	16 Sep 2004	0'·67 N	0'·21 W
467	Bayajibe to Haina	21 Jul 2005	0'·01 N	0'·39 E
467	Plan D Puerto La Romana	21 Jul 2005	0'·07 S	0'·42 E
531	Plan B Approaches to Mar del Plata	30 Nov 2006	0'·08 S	0'·03 E
531	Plan C Puerto San Blas	30 Nov 2006	0'·09 S	0'·17 E
552	Plan of Isla Tova	05 Apr 2001	0'·03 S	0'·11 E
552	Plan of Caletas Cordova and Olivares	05 Apr 2001	0'·08 S	0'·19 E
552	Plan of Comodoro Rivadavia	05 Apr 2001	0'·04 S	0'·24 E
572	Essequibo River to Corentyn River	08 Nov 1968	0'·23 N	0'·05 W
649	Plan of Nacala	23 Aug 2001	0'·18 N	0'·01 E
650	Porto de Quelimane	02 Aug 2001	0'·08 N	0'·03 E
657	Plan of Matadi	31 Jul 2003	0'·02 S	0'·01 W
671	Plan of Marka Anchorage	25 May 1990	0'·15 S	0'·06 E
675	Plan of Trinkitat Harbour	10 Jun 2010	0'·0 N	0'·01 W
684	Mtwara and Mikindani Harbours	06 Jan 1950	0'·26 N	0'·11 E
705	Plan of Amini Island	29 Dec 1989	0'·01 S	0'·08 E

Chart	Title	Edition Date	Shift from WGS84 datum to chart horizontal datum	
			Latitude	Longitude
705	Plan of Kiltan Island	29 Dec 1989	0'·01 S	0'·07 E
705	Plan of Chetlat Island	29 Dec 1989	0'·05 S	0'·1 E
705	Plan of Kavaratti Island	29 Dec 1989	0'·0 N	0'·09 E
705	Plan of Kalpeni and Cheriyan Islands	29 Dec 1989	0'·12 S	0'·03 E
705	Plan of Androth Island	29 Dec 1989	0'·17 S	0'·02 W
705	Plan of Minicoy Island	29 Dec 1989	0'·18 S	0'·0 E
863	Plan E Laayoune	12 Jul 2001	0'·03 S	0'·21 W
863	Plan G Approaches to Laayoune	12 Jul 2001	0'·05 S	0'·24 W
865	Plan of Entrance to Pangani River	12 Dec 1930	0'·13 S	0'·28 E
866	Plan of Wasin Channel	24 Nov 1950	0'·07 S	0'·13 E
895	Plan of Telok Terang	30 Nov 1962	0'·27 N	0'·11 E
910	Plan of Farallon de Medinilla	24 Dec 1953	0'·04 N	1'·09 E
910	Plan of Sarigan Island	24 Dec 1953	0'·27 N	0'·3 E
910	Plan of Rota Harbour	24 Dec 1953	0'·15 S	0'·3 E
910	Plan of Maug Islands	24 Dec 1953	0'·09 N	0'·09 E
910	Plan of Asuncion Island	24 Dec 1953	1'·39 S	0'·02 E
910	Plan of Pagan Island	24 Dec 1953	0'·22 N	0'·41 E
910	Plan of Apaan Bay	24 Dec 1953	0'·23 N	0'·42 E
927	Plan of Bojelebung Channel	08 Oct 1982	0'·07 N	0'·06 W
927	Plan of Port Siasi	08 Oct 1982	0'·08 N	0'·05 W
927	Plan of Port Bongao	08 Oct 1982	0'·07 N	0'·06 W
927	Plan of Maimbung Bay	08 Oct 1982	0'·08 N	0'·06 W
927	Plan of Jolo Anchorage	08 Oct 1982	0'·09 N	0'·06 W
957	Plan of Makar Cove and General Santos (Dadiangas)	10 Apr 1987	0'·06 N	0'·08 W
957	Plan of Parang and Polloc	10 Apr 1987	0'·08 N	0'·07 W
957	Plan of Port Santa Maria	10 Apr 1987	0'·08 N	0'·09 W
957	Plan of Port Lebak	10 Apr 1987	0'·07 N	0'·08 W
962	Plan of Nin and Looc Bays	06 Oct 1961	0'·09 N	0'·1 W
962	Plan of Port Cataingan	06 Oct 1961	0'·07 N	0'·08 W
962	Plan of Masbate Harbour	06 Oct 1961	0'·08 N	0'·09 W
962	Plan of Dumaguete	06 Oct 1961	0'·07 N	0'·07 W
962	Plan of Port San Jacinto	06 Oct 1961	0'·07 N	0'·09 W
962	Plan of Sibonga	06 Oct 1961	0'·06 N	0'·06 W
972	Plan of Port Batan	12 Mar 1965	0'·1 N	0'·07 W
972	Plan of Port Capiz	12 Mar 1965	0'·08 N	0'·08 W
972	Plan of Calapan	12 Mar 1965	0'·09 N	0'·07 W
972	Plan of Looc Bay	12 Mar 1965	0'·08 N	0'·09 W
989	Plan of Santa Cruz	14 Aug 1964	0'·09 N	0'·08 W
989	Plan of Basco	14 Aug 1964	0'·11 N	0'·09 W
1003	Approaches to Porto da Beira	15 Jan 2004	0'·14 N	0'·01 W
1101	Plan of Bahia Laolao	22 Jun 2000	0'·08 N	0'·1 E
1101	Plan of Sunharon Roads	22 Jun 2000	0'·07 N	0'·08 E
1101	Plan of Saipan and Tinian	22 Jun 2000	0'·08 N	0'·09 E
1116	Baie de Diego-Suarez	30 Aug 1963	0'·08 N	0'·03 E
1197	Plan of Porto de Benguela	09 May 1952	0'·09 N	0'·02 W
1197	Plan of Baia de Mossamedes (Little Fish Bay)	09 May 1952	0'·09 S	0'·03 W
1197	Plan of Baia dos Elefantes	09 May 1952	0'·07 N	0'·04 W
1215	Plan of Baia de Santa Marta	06 Nov 1981	0'·06 N	0'·05 W
1215	Plan of Porto Alexandre	06 Nov 1981	0'·02 N	0'·17 E
1215	Plan of Baia Farta	06 Nov 1981	0'·06 N	0'·17 E
1215	Plan of Porto do Lobito	06 Nov 1981	0'·07 N	0'·03 W

Chart	Title	Edition Date	Shift from WGS84 datum to chart horizontal datum	
			Latitude	Longitude
1215	Plan of Baia de Santa Maria	06 Nov 1981	0'·05 N	0'·18 E
1215	Plan of Gunza-Kabolo (Novo Redondo)	06 Nov 1981	0'·08 N	0'·18 E
1215	Plan of Enseada do Cuio	06 Nov 1981	0'·06 N	0'·17 E
1230	Plan of Zaliv Terpeniya	07 Sep 2000	0'·04 S	0'·12 W
1230	Plan of Oktyabr'skiy and Approaches	07 Sep 2000	0'·1 S	0'·15 W
1230	Plan of Okhotskiy Reyd	07 Sep 2000	0'·03 S	0'·11 W
1230	Plan of Reyd Poronaysk	07 Sep 2000	0'·03 S	0'·08 W
1231	Plan of Zaliv Korfa	07 Sep 2000	0'·05 S	0'·19 W
1231	Plan of Portovyy Punkt Korf	07 Sep 2000	0'·02 S	0'·14 W
1231	Plan of Approaches to Bukhta Provideniya	07 Sep 2000	0'·02 N	0'·22 W
1302	Cabo Guardian to Punta Nava	10 May 1963	0'·07 S	0'·18 W
1302	Plan of Caleta Sur	10 May 1963	0'·06 S	0'·25 W
1321	Plan D Bahia de Luba	18 Nov 2010	0'·21 S	0'·03 E
1332	Isla de los Estados and Estrecho de le Maire	21 Mar 1986	0'·25 N	0'·11 W
1356	Bahia de Corisco to Estuaire Du Gabon	06 Nov 2014	0'·04 S	0'·13 E
1356	Plan of Owendo	06 Nov 2014	0'·01 S	0'·16 E
1362	Harper to Sassandra	19 Jun 1992	0'·13 S	0'·08 E
1375	Plan B Bahia Isabel	11 May 2006	0'·13 N	0'·04 E
1375	Plan C Villamil	11 May 2006	0'·14 N	0'·04 E
1375	Plan D Bahia Academia	11 May 2006	0'·14 N	0'·03 E
1375	Plan E Bahia Stephens	11 May 2006	0'·13 N	0'·04 E
1375	Plan F Bahia Naufragio	11 May 2006	0'·2 N	0'·14 E
1389	Plan of Isla de Pascua (Easter Island)	25 Nov 1999	0'·02 S	0'·17 W
1389	Plan of Rada Vinapu Oil Terminal	25 Nov 1999	0'·05 S	0'·18 W
1389	Plan of Isla Salas Y Gomez	25 Nov 1999	1'·21 N	6'·01 W
1389	Plan of Isla San Felix - Rada San Felix	25 Nov 1999	0'·68 N	1'·08 W
1389	Plan of Isla Robinson Crusoe - Bahia Cumberland	25 Nov 1999	0'·93 N	0'·02 E
1398	Southern Approaches to Port Blair including Duncan Passage	12 May 2005	0'·1 S	0'·09 E
1416	Plan of Approaches to Manokwari	25 Sep 1964	0'·1 N	0'·11 E
1416	Plan of Rede Manokwari	25 Sep 1964	0'·11 N	0'·1 E
1416	Plan of Kararei Baai and Lawak Channel	25 Sep 1964	0'·13 S	0'·17 W
1416	Plan of Channels near Boni	25 Sep 1964	0'·13 S	0'·17 W
1419	Plan of Northern Approaches to Port Blair	09 Jun 2005	0'·09 S	0'·11 E
1436	Plan B	31 Jul 2014	0'·08 S	0'·01 E
1456	Port de Douala and Approaches	10 Jun 2010	0'·02 N	0'·08 E
1579	Plan of Al Ladhqiyyah (Lattaquie)	25 Feb 1999	0'·03 S	0'·01 W
1595	Plan A Baia das Agulhas	24 Mar 1995	0'·14 N	0'·12 E
1595	Plan B Baia de Santo Antonio	24 Mar 1995	0'·14 N	0'·12 E
1595	Plan C Portos de Farnao Dias and Sao Tome	24 Mar 1995	0'·04 N	0'·35 E
1595	Plan D Ilha do Principe	24 Mar 1995	0'·16 N	0'·13 E
1595	Plan E Ilha de Sao Tome	24 Mar 1995	0'·04 N	0'·34 E
1622	Plan of San Jose	30 Apr 1965	0'·08 N	0'·09 W
1622	Plan of Port Borongan	30 Apr 1965	0'·06 N	0'·07 W
1622	Plan of Port Libas	30 Apr 1965	0'·07 N	0'·09 W
1622	Plan of Catbalogan Harbour	30 Apr 1965	0'·07 N	0'·08 W
1622	Plan of Laoang	30 Apr 1965	0'·09 N	0'·08 W
1622	Plan of Cabugao Bay	30 Apr 1965	0'·07 N	0'·08 W
1640	Plan of Baie Hanavave	12 Feb 1988	0'·05 S	0'·09 E
1640	Plan of Baie de Vaitahu	12 Feb 1988	0'·04 S	0'·01 W
1640	Plan of Baie de Hakahetau	12 Feb 1988	0'·04 S	0'·01 W
1640	Plan of Baie de Taiohae	12 Feb 1988	0'·04 N	0'·05 E

Chart	Title	Edition Date	Shift from WGS84 datum to chart horizontal datum	
			Latitude	Longitude
1681	Northern Shore of Sibuko Bay	31 Mar 2005	0'·01 S	0'·17 E
1686	Kunak and Approaches	23 Feb 1968	0'·06 N	0'·16 W
1690	Plan A Ad-Dakhla	04 Sep 2003	0'·02 N	0'·08 W
1690	Plan B Approaches to Ad-Dakhla	04 Sep 2003	0'·01 N	0'·07 W
1690	Plan C Saint-Louis	04 Sep 2003	0'·01 S	0'·1 W
1710	Plan of Port de Cherchell	25 Feb 1999	0'·07 N	0'·06 E
1712	Plan of Ile de la Galite	19 Jan 1968	0'·09 N	0'·12 E
1712	Plan of Tabarca	19 Jan 1968	0'·04 N	0'·14 E
1712	Plan of Mersa Toukouch	19 Jan 1968	0'·05 N	0'·13 E
1712	Plan of Collo Anchorage	19 Jan 1968	0'·05 N	0'·13 E
1712	Plan of Port de la Calle	19 Jan 1968	0'·05 N	0'·14 E
1712	Plan of Port de Jijel	19 Jan 1968	0'·05 N	0'·13 E
1774	Plan of Desolation Island	28 Oct 1994	0'·18 S	0'·3 W
1774	Plan of Yankee Harbour	28 Oct 1994	0'·18 S	0'·31 W
1774	Plan of Ardley Cove	28 Oct 1994	0'·21 S	0'·28 W
1788	Plan A Kuala Niur	21 Aug 2008	0'·01 N	0'·11 W
1788	Plan C Jambi	21 Aug 2008	0'·07 N	0'·4 E
1788	Plan E Tanjungpandan	21 Aug 2008	0'·01 N	0'·09 W
1812	West Coast of Pemba Island including Ports Kiuyu-George and Cockburn and Chake Chake Bay	14 Nov 1958	0'·04 S	0'·25 W
2004	Plan of Approaches to Puerto de Colonia	05 Apr 2001	0'·15 S	0'·11 E
2009	Great Bahama Bank Sheet 2	21 Jul 1989	0'·07 N	0'·72 W
2039	Plan of River Paraguay Continuation Northward	18 Jan 1952	0'·37 N	1'·4 W
2128	Plan of Vtoroy Kuril'skiy Proliv	11 Oct 2001	0'·01 S	0'·14 W
2140	Plan of Approaches to Sedanau	24 Apr 1987	0'·08 N	0'·16 E
2391	Plan of Iloilo Strait	19 May 1961	0'·06 N	0'·07 W
2391	Plan of Iloilo River	19 May 1961	0'·07 N	0'·08 W
2391	Plan of Part of Guimaras Strait	19 May 1961	0'·06 N	0'·05 W
2417	Plan A Golfo de San Blas including Puerto Mandinga	29 Nov 2001	0'·1 N	0'·17 W
2417	Plan B Puerto Nicuesa	29 Nov 2001	0'·07 N	0'·14 W
2417	Plan E Portobelo	29 Nov 2001	0'·08 N	0'·16 W
2461	Plan of Ile Juan de Nova	29 Jun 1962	0'·12 S	0'·22 W
2461	Plan of Baie de Baly	29 Jun 1962	0'·04 S	0'·16 W
2467	Plan of Hollandia Baai	25 Sep 1964	0'·17 N	0'·15 E
2467	Plan of Humboldt Baai	25 Sep 1964	0'·15 N	0'·14 E
2467	Plan of Wari and Korim Baaien	25 Sep 1964	0'·06 S	0'·02 E
2640	Plan B Palabuhan Palopo	26 May 2011	0'·05 N	0'·39 E
2776	Flores to Kawula	01 Jan 2004	0'·09 S	0'·03 W
2783	Essequibo River - Mamarikuru Is. to Bartica including the Entrance to the Mazaruni River	03 Mar 1972	0'·1 N	0'·05 W
2783	Plan of Mazaruni River	03 Mar 1972	0'·08 N	0'·06 W
2914	Plan of Puerto Princesa	30 Jul 1982	0'·08 N	0'·1 W
2914	Plan of Ulugan Bay	30 Jul 1982	0'·08 N	0'·09 W
2914	Plan of Araceli	30 Jul 1982	0'·08 N	0'·09 W
2914	Plan of Balabac	30 Jul 1982	0'·08 N	0'·1 W
2961	Pechorskaya Guba	17 May 1985	0'·01 S	0'·3 E
3005	Plan of Tortugas Harbour	27 Jan 2005	0'·03 S	0'·0 E
3061	Plan of La Paz Harbour and Approaches	02 Oct 1987	0'·09 N	0'·31 E
3061	Plan of Bahia Pichilingue	02 Oct 1987	0'·09 N	0'·32 E
3061	Plan of Canale San Lorenzo	02 Oct 1987	0'·1 N	0'·33 E
3099	Plan A San-Pedro	20 Sep 2001	0'·16 S	0'·1 E

Chart	Title	Edition Date	Shift from WGS84 datum to chart horizontal datum	
			Latitude	Longitude
3099	Plan B Approaches to San-Pedro	20 Sep 2001	0'·09 S	0'·14 E
3101	Plan B Grand - Lahou	19 Jun 2003	0'·11 S	0'·45 E
3213	Plan of Melchior Islands	10 Aug 1973	0'·18 S	0'·55 W
3213	Plan of Approaches to Danco Island	10 Aug 1973	0'·16 N	0'·03 E
3213	Plan of Neny Island	10 Aug 1973	0'·16 S	0'·46 W
3213	Plan of Hope Bay	10 Aug 1973	0'·11 S	0'·54 E
3213	Plan of Debenham Islands	10 Aug 1973	0'·17 S	0'·44 W
3305	Plan of Chanomi Creek and Warri River	21 Jun 1991	0'·03 S	0'·04 E
3306	Plan of Benin River Young Town to Koko	08 Jul 1988	0'·06 S	0'·05 E
3307	Plan of Benin River Port of Koko	28 Jun 1991	0'·04 S	0'·03 E
3401	Plan of Damah	02 Jan 2003	0'·1 N	0'·26 E
3426	Plan of Port Ozamiz	09 Feb 1996	0'·08 N	0'·08 W
3426	Plan of Dapitan and Dipolog	09 Feb 1996	0'·06 N	0'·08 W
3426	Plan of Iligan	09 Feb 1996	0'·1 N	0'·08 W
3426	Plan of Cagayan de Oro	09 Feb 1996	0'·1 N	0'·08 W
3448	Plan of Baia do Dande	16 Dec 1994	0'·05 N	0'·04 W
3475	Plan of Casiguran Sound	28 Apr 1961	0'·1 N	0'·09 W
3475	Plan of Polillo Harbour	28 Apr 1961	0'·09 N	0'·09 W
3475	Plan of Lamit Bay	28 Apr 1961	0'·07 N	0'·07 W
3475	Plan of Hondagua Harbour	28 Apr 1961	0'·08 N	0'·08 W
3532	Plan of Ziguinchor	03 Aug 1990	0'·04 S	0'·08 W
3545	Plan of Port San Pio Quinto	16 Jan 2014	0'·11 N	0'·06 W
3545	Plan of Musa Bay	16 Jan 2014	0'·12 N	0'·09 W
3545	Plan of Lokanin Point to Limay	16 Jan 2014	0'·09 N	0'·09 W
3545	Plan of Salomague Harbour and Lapog Bay	16 Jan 2014	0'·1 N	0'·08 W
3545	Plan of San Fernando Harbour	16 Jan 2014	0'·1 N	0'·09 W
3545	Plan of Port Currimao and Gaang Bay	16 Jan 2014	0'·12 N	0'·08 W
3545	Plan of Solvec Cove	16 Jan 2014	0'·11 N	0'·09 W
3545	Plan of Port Sual	16 Jan 2014	0'·1 N	0'·07 W
3545	Plan of Port San Vicente	16 Jan 2014	0'·11 N	0'·08 W
3559	Plan of Bolinao Harbour	08 May 1964	0'·12 N	0'·08 W
3559	Plan of Port Masinloc and Port Matalvi	08 May 1964	0'·1 N	0'·08 W
3559	Plan of Mariveles Harbour	08 May 1964	0'·09 N	0'·08 W
3559	Plan of Santa Cruz Harbour	08 May 1964	0'·09 N	0'·08 W
3559	Plan of Port Balanacan	08 May 1964	0'·09 N	0'·08 W
3559	Plan of Port Galera and Varadero Bay	08 May 1964	0'·08 N	0'·09 W
3597	South Georgia	15 Apr 1988	0'·33 N	0'·16 E
3664	Plan B Tahanea	18 Nov 2004	0'·05 S	0'·02 E
3742	Kaap Van Den Bosch to Patipi Baai	12 Dec 1952	0'·22 S	1'·02 W
3742	Plan of Channels near Pandjang	12 Dec 1952	0'·34 S	0'·97 W
3801	Plan D San Carlos	30 Nov 2000	0'·07 N	0'·08 W
3801	Plan C Tagbilaran	30 Nov 2000	0'·08 N	0'·09 W
3810	Plan of Bislig Bay	09 Nov 2000	0'·06 N	0'·06 W
3815	Plan of Tanao Pass	13 Oct 1961	0'·09 N	0'·08 W
3815	Plan of Approaches to Legaspi	13 Oct 1961	0'·07 N	0'·09 W
3840	San Juanico Strait and Approaches	18 Aug 1972	0'·08 N	0'·09 W
3874	Baie De Qui Nhon to Baie De Xuan Day	16 May 1940	0'·03 S	0'·3 W
3967	Baie De Ream to Ko Kut	19 Apr 1957	0'·03 S	0'·27 W
3987	Mui Ke Ga to Vung Qui-Nhon	17 Dec 2009	0'·0 N	0'·34 W
3988	Vung Qui-Nhon to Song Huong	30 Sep 1999	0'·07 S	0'·36 W
3988	Plan of Qui Nhon	30 Sep 1999	0'·03 S	0'·29 W