

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

Source: UKHO.

*Former Notice 19/23 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 In the mean time the existing Satellite-Derived Positions note should be superseded by the following information.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
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
572	Essequibo River to Corentyn River	08 Nov 1968	0'·23 N	0'·05 W
866	Plan of Wasin Channel	24 Nov 1950	0'·07 S	0'·13 E
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
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
1230	Plan of Zaliv Terpeniya	07 Sep 2000	0'·04 S	0'·12 W

Chart	Title	Edition Date	Shift from WGS84 datum to chart horizontal datum	
			Latitude	Longitude
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
1321	Plan D Bahia de Luba	29 Mar 2018	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
1398	Southern Approaches to Port Blair including Duncan Passage	12 May 2005	0'·1 S	0'·09 E
1419	Plan of Northern Approaches to Port Blair	09 Jun 2005	0'·09 S	0'·11 W
1456	Port de Douala and Approaches	10 Jun 2010	0'·02 N	0'·08 E
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
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 Ardley Cove	28 Oct 1994	0'·21 S	0'·28 W
2128	Plan of Vtoroy Kuril'skiy Proliv	11 Oct 2001	0'·01 S	0'·14 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
2640	Plan B Palabuhan Palopo	26 May 2011	0'·05 N	0'·39 E
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
2961	Pechorskaya Guba	17 May 1985	0'·01 S	0'·3 E

Chart	Title	Edition Date	Shift from WGS84 datum to chart horizontal datum	
			Latitude	Longitude
3101	Plan B Grand - Lahou	03 Jun 2021	0'·11 S	0'·45 E
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
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

### Baltic Sea Chart Datum 2000 (BSCD2000)

UKHO Products and Services, including foreign charts, in the Baltic Sea region are changing to a new harmonised vertical reference system for depth information. The current vertical reference system for bathymetric information in the Baltic Sea region is mean sea level, this will be replaced by the new Baltic Sea Chart Datum 2000 (BSCD2000).

The transition to BSCD2000 will affect the bathymetric information shown in UKHO Products and Services, including foreign charts.

During this transition period, UKHO Products and Services, including foreign charts, may be referred to either mean sea level or BSCD2000. Therefore, it is important to check the vertical reference system shown on UKHO Products and Services, including foreign charts, and the corresponding water level reading.

The transition to BSCD2000 is anticipated to be completed in 2026.

For further information, please contact the national charting authority and see:

<https://ihr.iho.int/articles/the-baltic-sea-chart-datum-2000-bscd2000-implementation-of-a-common-reference-level-in-the-baltic-sea/>