

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

Source: UKHO.

Former Notice 19/21 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 In the mean time the existing Satellite-Derived Positions note should be superseded by the following information.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 |
| 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 |
| 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 Baía de Mossamedes (Little Fish Bay) | 09 May 1952 | 0'·09 S | 0'·03 W |

| Chart | Title | Edition Date | Shift from WGS84 datum to chart horizontal datum | |
|-------|--|--------------|--|-----------|
| | | | Latitude | Longitude |
| 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 |
| 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 | 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 |
| 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 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 |
| 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 |
| 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 |

| Chart | Title | Edition Date | Shift from WGS84 datum to chart horizontal datum | |
|-------|--|--------------|--|-----------|
| | | | Latitude | Longitude |
| 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 |
| 3101 | Plan B Grand - Lahou | 19 Jun 2003 | 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 |
| 3401 | Plan of Darnah | 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 |
| 3664 | Plan B Tahanea | 18 Nov 2004 | 0'·05 S | 0'·02 E |

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/>