



IHB File No. S3/4058

CIRCULAR LETTER 50/2006

6 July 2006

**GEODETTIC DATUM - PAPER CHART "APPROPRIATE PORTFOLIO" FOR ECDIS**

Ref: IHO Circular Letter 32/2006 of 22 March 2006

Dear Hydrographer,

The referenced Circular Letter asked Member States to indicate whether satellite derived position notes were shown on their charts, where the geodetic datum used was not WGS-84. This information would be useful to assess the quality of the "appropriate portfolio" of paper charts to be used as ECDIS back-up, or where ENC's do not exist.

The IHB would like to thank the 37 Member States who provided answers. They have been interpreted and summarized in Annex A. It results from this survey that:

1. A vast majority of charts either refer directly to WGS-84 or, if another geodetic datum is used, bear satellite derived position notes indicating the Lat/Long shift to WGS-84, in accordance with M-4 Specification B-202, when this difference is noticeable, usually on charts larger than 1:500,000. These charts can safely be included in the "appropriate portfolio" of paper charts, specifically:
  - a. All currently available INT charts, with the exception of a few South African charts.
  - b. Virtually all currently available national charts produced by the following Member States: Australia, Bahrain, Brazil, Denmark, Ecuador, Egypt, Estonia, Finland, France, Iceland, India, Italy, Latvia, Mexico, Netherlands, Pakistan, Peru, Poland, Portugal, Serbia & Montenegro, Spain, Sweden, Thailand, Turkey, USA (NOAA) and Uruguay.
  - c. A significant part of the national chart portfolio of the following Member States, as indicated: Argentina (80 %), Belgium (75 %), Cuba (30 %), Greece (54 %), Japan (90 %), Norway (40 %), South Africa (41 %) and United Kingdom (78 %).
2. The remaining charts, essentially national charts, are in the process of being referenced to WGS-84, in the process of being provided with satellite derived position notes, or cannot be referred to WGS-84 because differences cannot be determined. In the latter case, an appropriate note is carried.

It is the IHB's intention to forward this information to IMO. Any comments will be welcome.

On behalf of the Directing Committee  
Yours sincerely,

Rear Admiral Kenneth BARBOR  
Director

Encl: Annex A

## Geodetic datum - Paper chart “appropriate portfolio” for ECDIS

## Responses to CL 32/2006

Do you facilitate the plotting of satellite-derived positions on your charts by inserting SATELLITE-DERIVED POSITIONS notes showing Lat/Long position adjustments, or equivalent method, in accordance with IHO Chart Specification B-202:			
IHO Member State	1. On INT charts (All/Part%/None)	2. On national charts (All/Part%/None)	Comments
Algeria	All	None	From the adoption of NORD SAHARA 1959 datum by SHFN, all new chart editions will include satellite derived position notes.
Argentina	All	80 %	
Australia	All	All	
Bahrain			All Bahrain charts are referred to WGS-84, except one. They bear a Lat/Long position adjustment to previous editions in local datum.
Belgium	All	75 %	
Brazil	None	All	All Brazilian INT charts are referred to WGS-84
Cuba	None	30 %	All Cuban INT charts under preparation will include satellite derived position notes. National charts will include such notes as and when new editions are published.
Cyprus		None	The only INT chart produced (INT 3604) is referred to WGS-84. Cyprus waters are covered with UKHO charts bearing satellite derived position notes.
Denmark	None	Part: All those Danish national charts covering the Faroese and Greenlandic waters, which are not referred to WGS-84, bear satellite derived position notes.	All Danish INT charts and all national charts covering the Danish waters are referred to WGS-84.
Ecuador	All	All	
Egypt	All	All	Suggest an IHO resolution that would generalise the use of WGS-84 only, in particular for INT charts.

IHO Member State	1. On INT charts (All/Part%/None)	2. On national charts (All/Part%/None)	Comments
Estonia	None	None	All Estonian charts are referred to WGS-84
Finland	None	Part : Position adjustment notes are missing only on few old inland lake charts, not referred to WGS-84 and bearing a note "Not for GPS navigation"	All Finnish INT charts are referred to WGS-84
France	All	All	
Greece	All	54 %	
Iceland	All	All	
India	All	All	Satellite derived position notes are given on all Indian charts larger than 1:500,000.
Italy	All	All	
Japan	All	90 %	
Kuwait		None	No INT chart produced.
Latvia	None	None	All Latvian nautical charts are referred to WGS-84.
Mexico	None	None	All Mexican nautical charts are referred to WGS-84.
Netherlands	All	95 %	Two Netherlands charts covering part of Surinam (Nos. 2017 & 2228) do not bear satellite derived position notes.
Norway	None	40 %	1. Norway has produced 4 INT charts at scales less than 1:500,000. Transformation note not inserted. 2. Transformation notes inserted on charts at scales of 1:50 000 and larger. Transformation notes inserted on about 40% of charts at a scale smaller than 1:50 000.
Pakistan	All	All	
Peru		All	All national Peruvian charts are referred to WGS-84.
Poland	None	None	All Polish charts are referred to WGS-84.

IHO Member State	1. On INT charts (All/Part%/None)	2. On national charts (All/Part%/None)	Comments
Portugal	All	All	
Serbia & Montenegro		All	No INT chart produced.
South Africa	81 %	41 %	
Spain	All	All	Satellite derived positions are given on all Spanish charts at scale larger than 1:500,000 and on those charts smaller than 1:500,000 where the position difference is noticeable. All new editions of Spanish charts will be referred to WGS-84.
Sweden	None	None	All Swedish charts are referred to WGS-84. Suggest showing a warning in the margin of those charts not based on WGS-84.
Thailand	All	All	
Turkey	All	All	Since the beginning of 2005, all new Turkish INT and national charts are referred to WGS-84.
United Kingdom	All	Part : 1. 78% have satellite derived positions notes showing Lat/Long adjustments. 2. 13% have satellite derived positions notes stating that differences cannot be determined (as per INT Spec B-202.3b). 3. 9% do not carry a note, but details of the Lat/Long adjustments or the fact that differences cannot be determined are listed in Annual Notice to Mariners No 19.	UKHO has a programme in hand to include Satellite Derived Positions notes (with Lat/Long adjustments or stating that differences cannot be determined) on all the older national charts (9%) which currently do not have them - by Notice to Mariners or New Edition.

<b>IHO Member State</b>	<b>1. On INT charts (All/Part%/None)</b>	<b>2. On national charts (All/Part%/None)</b>	<b>Comments</b>
USA (NOAA)	All	99.5 %	99.5 % of NOAA charts are referred to either WGS-84 or NAD 83, which are equivalent for charting purposes. For those charts still based on an older geodetic datum (such as NAD 1927), geographical position correction factors are shown.
Uruguay		All	No INT chart produced. Satellite derived positions are given on all Uruguayan charts at scale larger than 1:400,000.
<b>Non-Member State</b>	<b>1. On INT charts (All/Part%/None)</b>	<b>2. On national charts (All/Part%/None)</b>	<b>Comments</b>
Bulgaria		All	Bulgaria does not produce INT charts.