



Presentation to ECDIS Stakeholder Forum Tokyo – Japan – Sept 3/08



George Arts, President

The Challenges confronting the
Hydrographic Community and the chart
distributors to be ready for ECDIS
mandatory carriage deadlines



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Most importantly, Marine Press does not compete with National Hydrographic Offices, we deliver your data and we want to work with you



MARINE PRESS OF CANADA Corporate Profile



- ◆ ISO 9001 Certified
- ◆ Worldwide Distribution
- ◆ International Admiralty Chart Agent
- ◆ Distributor of Paper charts/publications for many countries
- ◆ Distributor of Electronic Charts (ARCS, AVCS, PRIMAR)
- ◆ Software development (Digitrace – The Chart Catalogue)
- ◆ Highly integrated services

- ◆ Special Focus Market: Cruise Lines since 1996
- ◆ Added Focus: Tankers and Container market since 2001
- ◆ With the cooperation of Japan Marine Science, distribution in Asia



Marine Press - Clients



The following is a partial list of clients.
In August 2008 nearly 2800 vessels subscribe to Digitrace.

- ◆ Anglo Eastern Shipmanagement
- ◆ Carnival Cruises
- ◆ Cunard/Seabourn Cruises
- ◆ TMM - Japan
- ◆ Holland America Lines
- ◆ Norwegian Cruise Lines
- ◆ MAERSK
- ◆ Reederei Offen
- ◆ Motia/Seaarland
- ◆ Norgas
- ◆ Neptune Orient Lines
- ◆ Costa Crociere S.p.A.
- ◆ V-Ships
- ◆ PRISCO
- ◆ CEC Shipmanagement
- ◆ Bernhard Schulte Shipmanagement
- ◆ Fleet Shipmanagement
- ◆ P&O Nedlloyd
- ◆ MK Shipmanagement
- ◆ BP / Alaska Tanker Company
- ◆ Teekay Shipping
- ◆ Royal Caribbean Cruises
- ◆ Hamburg Sued
- ◆ MOL
- ◆ Westfal Larsen
- ◆ Feederlines
- ◆ NYK
- ◆ BW Gas – BW Shipping
- ◆ Algoma Tankers
- ◆ Wallem Ship Management
- ◆ Barber
- ◆ K-Line
- ◆ Unicom
- ◆ Ahrenkiel Ship Management



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George Arts, President

- A/ ENC Cells vs. Units
- B/ Digital Catalogue
- C/ License ordered = license to be paid
- D/ Conflicts between old and new license files and old vs. new data
- E/ Information regarding Cancelled ENC's
- F/ Information regarding delivery of T&P's within ENC's
- G/ Cooperation between OEM's and distributors
- H/ The management of ENC distribution is currently so difficult that the distribution network is not ready and will collapse

-- Unless things change rapidly ?????



Typical confusion Cells vs. Units

- Further to the Chart list sent to vessel by Marine Press, the charts installed in the ECDIS are not same as submitted list.

Some charts listed below are not in the ECDIS and
Some charts in the ECDIS are not in the submitted list.
List of charts on board is attached.

- Kindly review
- Brgds
- Master



Typical confusion Cells vs. Units

There are currently two models of distributing ENC cells, one being providing cells individually, the other to provide ENC coverage by Unit.

An ENC Unit is a "package", it is composed of one or more ENC cells that is a close equivalent to the traditional paper chart that it replaces.

In your below list, the charts listed with 6 digits are ENC Units.
The ones with 8 digits are ENC cells

In your case, certain units contain as much as 10 or even eleven cells.



Typical confusion Cells vs. Units

- BE3001 COASTAL - BELGIAN COAST
- BE4001 APPROACH - BELGIAN APPROACHES - ZEEBRUGGE AND OOSTENDE
- BE5003 HARBOUR - BELGIAN HARBOURS - ANTWERPEN NORTH
- BE5004 HARBOUR - BELGIAN HARBOURS - ANTWERPEN SOUTH
- CA176030 LAR OVERVIEW - GULF OF MAINE TO/A STRAIT OF BELLE ISLE
- CA176290 LAR OVERVIEW - LABRADOR SEA STRAIT OF BELLE ISLE TO/A DAVIS

Shopping Basket

Harbour: Aabenra (Denmark)

Product Type | Product | Title | Scale/Usage | Outdated | Notes

AVCS	GB5037	English Harbours - The Solent	Other ENCs		
AVCS	GB50242B	English Harbours - The Solent	Harbour		
AVCS	GB50242C	English Harbours - The Solent	Harbour		
AVCS	GB50242D	English Harbours - The Solent	Harbour		
AVCS	GB50242L	English Harbours - The Solent	Harbour		
AVCS	GB50242M	English Harbours - The Solent	Harbour		
AVCS	GB50242N	English Harbours - The Solent	Harbour		
AVCS	GB50242P	English Harbours - The Solent	Harbour		
AVCS	GB50242U	English Harbours - The Solent	Harbour		
AVCS	GB50242V	English Harbours - The Solent	Harbour		

Products In Basket: AVCS: 1;

Close Show Inventory >>

United Kingdom

Southampton, Poole, Bournemouth, Littlehampton, Newbort (Isle of Wight)

GB5037, GB5024, GB4041, P2408, P9021

Products Found In "AVCS" (Admiralty Vector Chart Service)

Product Type	Product	Title	Highlight	Basket	Inventory	Usage(s)	Scale
AVCS	GB5037	English Harbours - The Solent	Normal Display	Remove	Add	Other ENCs	1:50,000

Colours: Basket Inventory Both

ADC

Within the UKHO "AVCS service" UNIT GB5037 contains 9 Cells which can be easily identified

Shopping Basket

Harbour: Aabenra (Denmark)

Within the UKHO "ECDIS service" the content of UNIT GB5037 cannot be identified

Product Type	Product	Title	Scale/Usage	Outdated	Notes
- AVCS	GB5037	English Harbours - The Solent	Other ENC's		
- AVCS	GB50242B	English Harbours - The Solent	Harbour		
- AVCS	GB50242C	English Harbours - The Solent	Harbour		
- AVCS	GB50242D	English Harbours - The Solent	Harbour		
- AVCS	GB50242L	English Harbours - The Solent	Harbour		
- AVCS	GB50242M	English Harbours - The Solent	Harbour		
- AVCS	GB50242N	English Harbours - The Solent	Harbour		
- AVCS	GB50242P	English Harbours - The Solent	Harbour		
- AVCS	GB50242U	English Harbours - The Solent	Harbour		
- AVCS	GB50242V	English Harbours - The Solent	Harbour		
- ENC Units	GB5037	English Harbours - The Solent	Harbour		

Products In Basket: AVCS: 1; ENC Units: 1;

United Kingdom

GB5025, GB5037, GB5037, GB5026, GB5041, GB4044, GB5024

Products Found In "ENC Units" (Admiralty ENC Service)

Product Type	Product	Title	Highlight	Basket	Inventory	Usage(s)	Scale
ENC Units	GB5037	English Harbours - The Solent	Highlight	Remove	Add	Harbour	1:50,000

ADC

Basket (2) | Inventory (0) | Paper Charts | ARCS | Admiralty ENC Service | AVCS | ECDIS | SDs | ATT | TotalTide | ALL | ADLL | ALRS6 | ADRS6 | Other



Typical confusion Cells vs. Units

For the UKHO:

Cells are identified by 8 digits

Units are identified by 6 digits

Same is true for e.g. Portugal, The Netherlands, Greece

In Japan, both cells and units are identified with 8 digits



Typical confusion Cells vs. Units

How do we address this issue and inform the users ?

By providing them with an updated digital catalogue that contains the information they need to correctly order products and to understand what they received.

What are the challenges to achieve this goal ?

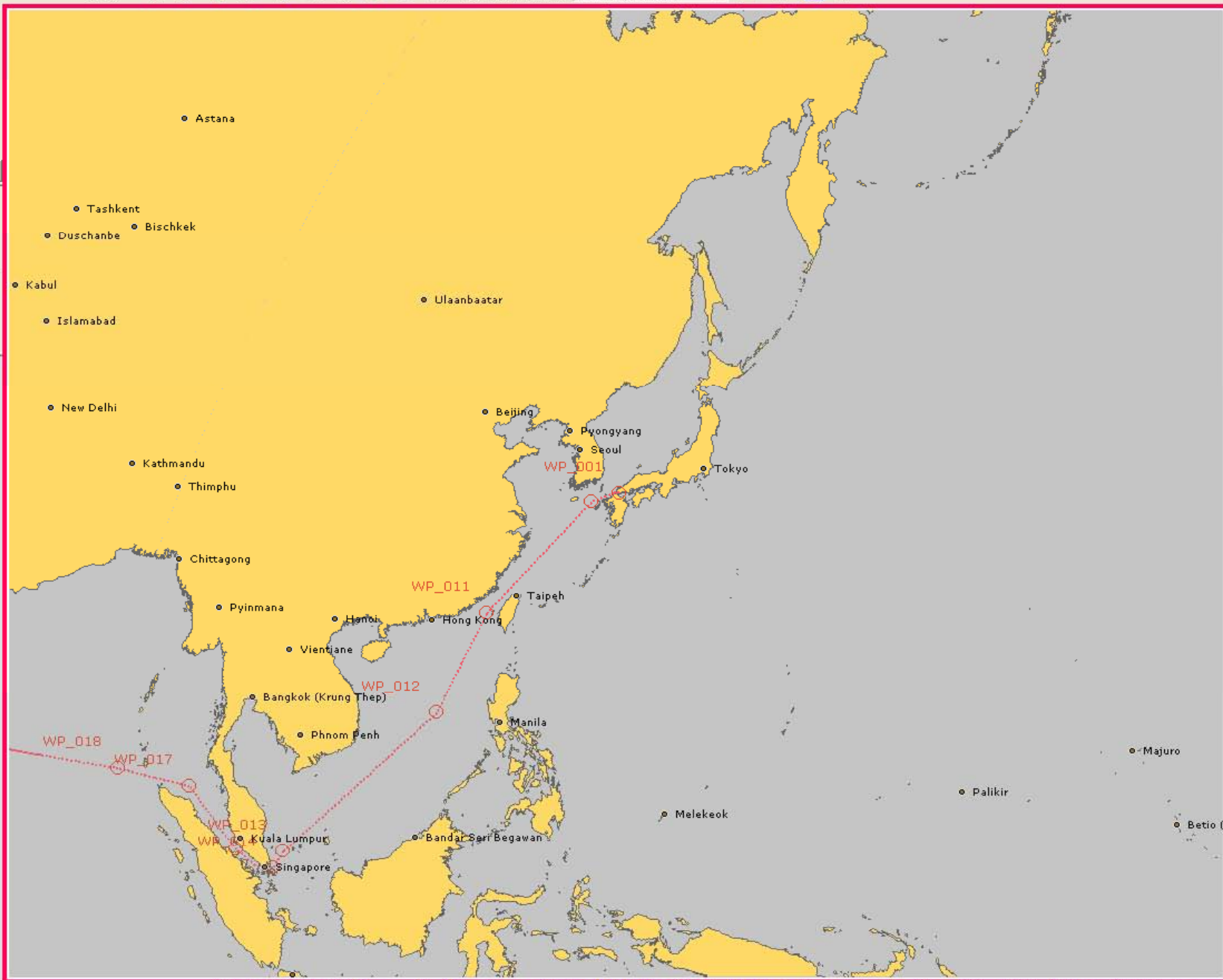
Cursor Position: Out Of Proximity

Chart: [Navigation icons] Goto Harbour: Aabenra (Denmark)



Display

- Inventory
- Basket
- Current Catalogue Only
- Act. Scale-Ranges Only
- Hide Selected Products



Available Catalogue Updates



Catalogue	Status On This PC	Date On This PC	Available Date	Load Update?	File Size	Download Progress
British Admiralty Paper Charts	Outdated	2008/06/05	2008/08/14	<input checked="" type="checkbox"/>	1099 KB	100%
Admiralty Raster Chart Service	Outdated	2008/06/05	2008/08/14	<input checked="" type="checkbox"/>	1073 KB	81%
Admiralty ENC Service	Outdated	2008/06/05	2008/08/14	<input checked="" type="checkbox"/>	1701 KB	0%
Admiralty Vector Chart Service	Outdated	2008/06/02	2008/08/08	<input checked="" type="checkbox"/>	5658 KB	0%
ECDIS Service	Outdated	2008/06/05	2008/08/14	<input checked="" type="checkbox"/>	67 KB	0%
Sailing Directions	Up To Date	2008/04/17	2008/04/17	<input checked="" type="checkbox"/>	15 KB	0%
Admiralty Tide Tables	Up To Date	2008/04/17	2008/04/17	<input checked="" type="checkbox"/>	4 KB	0%
Total Tide	Up To Date	2008/04/17	2008/04/17	<input checked="" type="checkbox"/>	4 KB	0%
Admiralty List of Lights	Up To Date	2008/04/17	2008/04/17	<input checked="" type="checkbox"/>	5 KB	0%
Digital List of Lights	Up To Date	2008/04/17	2008/04/17	<input checked="" type="checkbox"/>	4 KB	0%
Admiralty List of Radio Signa...	Up To Date	2008/04/17	2008/04/17	<input checked="" type="checkbox"/>	3 KB	0%
Digital Radio Signals Vol6	Up To Date	2008/04/17	2008/04/17	<input checked="" type="checkbox"/>	4 KB	0%
Other Products	Outdated	2008/06/05	2008/08/14	<input checked="" type="checkbox"/>	38 KB	0%

Start Update

Cancel Update



Digital Catalogue

File Size – Much too big for most vessels to even attempt to connect and download via Internet

UKHO – Currently available on AVCS, ENC and ECDIS (service) weekly Update CD's

* Source UKHO website – 2008/08/25

UKHO – Digital Catalogue contains listing for all products (including paper charts), but if mariners do not subscribe to one of the above service, they do not receive above listed weekly Update CD's



Digital Catalogue



Most recently, PRIMAR changed the metadata content of its Digital Catalogue files without advance notice to distributors.

As a result, our ability to maintain our own database of ENC's has been compromised.

Once informed, PRIMAR informed how distributors could retrieve required information from other sources.

PRIMAR and other H.O.'s should better coordinate changes with distributors in advance. It is exhausting to play catch-u and continuously adapt whilst still providing uninterrupted services to end-users



Digital Catalogue

Lessons Learned – we hope

- PRIMAR and other H.O.'s should better coordinate changes with distributors in advance.
- It is exhausting to play catch-u and continuously adapt whilst still providing uninterrupted services to end-users
- Some distributors would be happy to develop and maintain their own digital catalogue but must be assured of regular and constant metadata being provided by hydrographic offices. (This has not been the situation so far)



License Ordered = License to be paid

As a rule, when the H.O. deliver a license the ship will retain access to the data for the duration of the license.

Because when a license is copied in the ECDIS it cannot be deleted from the ECDIS by the H.O. who issued it.

As a rule, when the H.O.'s deliver a license, it has to be paid for. No credit is given when the order is wrong.



License Ordered = License to be paid



----- June 25/2008 -----

We are the technical managers of the 2 aforementioned vessels. We would like to place order for ARCS license for ECDIS on board these ships with Marine Press

AA

Vessel has on board following ARCS CD -ROM's RC -1 (Oct 2006)
RC -2 (Mar 2006) RC -3 (Sept 2006) RC -4 (June 2007) RC -5 (Mar
2007) RC -6 (Sept 2006) RC -7 (Mar 2007) RC -8 (June 2006) RC -9
(July 2006) RC -10 (July 2007) RC -11 (Oct 2003)

BB

Regional areas for which we could trade in the next six months Area
1 - Europe Area 5 - Indian Ocean Area 4 - Mediterranean Area 6 -
China Area 7 - Australia Area 10 - South America Area 11 - Ocean
Charts *Details of previous licence



License Ordered = License to be paid



----- June 25/2008 -----

- Please note ECDIS has stopped displaying ARCS charts, Other functions like route planning & feed input from various nav eqpts are okay.
- We loaded the latest permit floppy (dated 04/07/07) also but with no success. We feel this could be a license issue
- The last license floppy on board is dated 4th July'07 and the last update CD for corrections of ARCS charts on board is for BA week 27 of 2007.

----- June 29/2008 -----

-- As mentioned in the previous message, both license are now expired, we only need to confirm the coverage required to supply you with a new License for each vessel.

We just noticed that the below coverage is mentioned in an Earlier message. Kindly confirm below **If this coverage is correct, then it will be cheaper to supply both vessel with a World coverage.**



License Ordered = License to be paid



----- June 30/2008 -----

--The below mentioned coverage (mentioned as per our earlier message) is what is required by the vessel.

Kindly proceed to have the requisite licenses issued for both the vessels.

----- August 21/2008 -----

We received 2 invoices for \$ XXXXX.00 each (World Wide Folio)

However, please note that as usual like all other vessels () we would order a minimum of XX charts for getting the ARCS license. Regret if there was some misunderstanding on this.



License Ordered = License to be paid



----- Lessons learned -----

- Be very careful before ordering licensing for digital products/services
- The decision to credit DOES NOT rest with the distributor

----- Conclusion -----

- Marine Press contacted UKHO and explained circumstances
- As a gesture of good will, UKHO credited license costs and allowed re-issue of new licenses according to wishes from ship managers
- It would be in the best interest of H.O.s and RENC's to develop policies to deal with such instances.



Conflicts between Old and new Permits



Conflicts between Old and New Dataset

See technical report written in regards to M.T. Cap Diamant

IHB presented a very comprehensive report on technical issues still affecting the data quality delivered to mariners



Cancelled ENC's



We cannot just ignore them

Hydrographic Offices and RENC's current method of dealing with this issue is not suitable

Publishing a list of Cancelled ENC's in a "hard to find" section of a web-site (not accessible to most mariners) is not a solution

For the time being, private has to improvise delivery mechanism to users of ENC's



Charts On board Old Charts on Board Publications on Board Old Pubs on board ENC on board Corrections List

Weekly Cumulative Digital Publications

Digital Publications Full Screen Status Log and List of Exceptions Print Order Form Print inventory changes report

Cumulative Corrections

Ship Name: ZULU
 Category: CHART CORRECTIONS
 Issued by: PRIMAR
 Format: PAPER
 Folio: ALL - ALL
 Standard Customized Region

Go to

1 CHART ON BOARD

NUMBER	DESCRIPTION
CNXCELLS	PRIMAR LIST OF CANCELLED CELLS

DONE	NTM ED.	NOTICES
<input type="checkbox"/>	33/2008	



PRIMAR[®]
 Operated by the Norwegian Hydrographic Service

List of cancelled cell in the PRIMAR ENC Service:

Cancelled Cells:	Cancelled Week/Year:	Replacements Cell(s):
Australia:		
Unit:		
AU5014	05/06	AU5301
Canada:		



Temporary and Preliminary Corrections within ENC's



Safety of navigation is at stake

T&P are an integrated part of the notices to mariners and their timely delivery into ENC's is important

T&P are still produced in function of paper chart number and it is not currently possible to cross-reference to ENC's

There are still too many instances where T&P for ENC's are delivered much later than T&P for paper charts

Publishing a list of T&P links in a "hard to find" section of a web-site (not accessible to most mariners) is not a solution

Moreover, if and when the links are found, some countries H.O. publish their T&P in their national language only (not in English)

PS-statusofTandPnoticesforeachnation161007.doc - Microsoft Word

File Edit View Insert Format Tools Table Window Help Adobe PDF Acrobat Comments Type a question for help

150% Times New Roman 14 B I U

Final Showing Markup Show Reply with Changes...

Overview of the current status of production of temporary (T) and preliminary (P) notices for each nation

In order to inform the users about the status of production of T&P notices in the ENC update files, the two RENCs have collected information from the individual HOs distributing ENCs through the RENCs. The result is presented in the table below.

Nation	T (Temporary) notices included in EN/ER files	P (Preliminary) notices included in EN/ER files	Additional comments
Argentina	Yes	Yes	Notices to Mariners including Temporary and Preliminary Notices, if any, are published in the <u>Servicio de Hidrografia Naval</u> webpage (www.hidro.gov.ar).
Belgium	No	No	Temporary and Preliminary notices are found in <u>NtM</u> booklet paper or website: http://www.vlaamsehydrografie.be/welkom.aspx
Canada			

Page 1 Sec 1 1/3 At 1" Ln 1 Col 30 REC TRK EXT OVR English (U.S.)



Bienvenida

NOTICIAS



08/08/08 | **Fin de Semana Internacional de los Faros.**
 Nuevo evento de radioaficionados se realizará los días 16 y 17 de agosto. [+](#)



01/08/08 | **Comisión Nacional del Límite Exterior de la Plataforma Continental Argentina (COPLA).**
 Síntesis y actualización de lo realizado. [+](#)



28/07/08 | **Ceremonia - Campaña 2008 Buque A.R.A. "Puerto Deseado".**
 El acto, que se realizó el día viernes 25 en el Salón Dorado del Palacio San Martín, sede de la Cancillería, contó con la presencia del Vicecanciller Victorio Taccetti, el Comandante del buque Oceanográfico, Capitán d'Corbeta Hernán Montero, el Subjefe de la Armada, Almirante Benito Rótolo, el Director Nacional del Antártico, Mariano Memolli, y la Presidenta del CONICET, Marta Rovira. También asistieron varios funcionarios de la Cancillería, el Jefe del Servicio de Hidrografía Naval y parte de la tripulación del ARA "Puerto Deseado". [+](#)

10/07/08 | **41ª Sesión del Consejo Ejecutivo de la Comisión Oceanográfica Intergubernamental (COI).**

Entre los días 24 de junio y 1º de julio próximos pasados tuvo lugar la 41ª Sesión del Consejo Ejecutivo de la Comisión Oceanográfica Intergubernamental (COI) en la sede de la UNESCO en París, Francia, bajo la presidencia del CN(RE) Lic. Javier Valladares y la participación de más de 200 asistentes como parte de las delegaciones de los 40 Estados Miembros del Consejo Ejecutivo y de 1º Estados Miembros Observadores, así como con 38 representantes y observadores de 26 organizaciones. [+](#)



03/07/08 | **Ceremonia - Promesa de Lealtad a la Bandera Nacional.**
 El 24 de junio de 2008, se realizó en las instalaciones del Servicio de Hidrografía Naval (SHN), la ceremonia de PROMESA DE LEALTAD A LA BANDERA NACIONAL por parte de los alumnos de cuarto (4º) grado, divisiones A y B, del Instituto "Zaccaria" de los Padres Barnabitas. [+](#)

[Más noticias](#)



Carta de Navegación Electrónica

BUSCADOR

[de Cartas por Topónimo](#)
[de Cartas por Accidente Geográfico](#)



Status of Distributor Network in regards to ENC



Most nautical chart distributors are not able to provide technically suitable services for the provision of digital products

The administrative issues related to invoicing of digital products and services are such that it is not economically sustainable

To provide quality management services to their customers, distributors must receive steady and detailed information from the H.O., e.g. metadata for catalogue connected to invoicing software

Invoicing a customer “ for the provision of ENC permits = \$ 1234,00 is not an option

Distributors must be an integral part of an efficient distribution system. Their experience and knowledge of the customers need must be part of the development of products and services in cooperation with H.O.

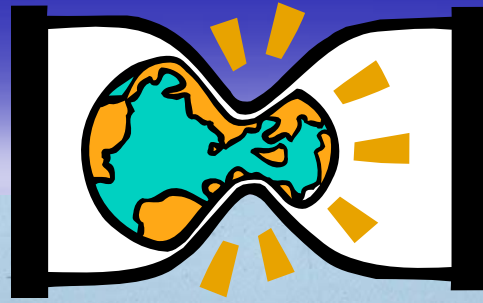


Consequences of failure



Unless the hydrographic community seriously address the problems that have plagued the development and adoption of ECDIS, it will not be able to meet the target date for mandatory carriage of ECDIS

The result of this failure will be:



**Your call is important to us, we will answer
as soon as possible !!!**



Pay-Per-Use Solution



- Fair pricing for ship owners and National Authorities
 - Use of S-63 to encrypt data
 - Increase sales
 - Improved distribution process
 - Reduced management process



Pay-Per-Use Solution



Improves safety of navigation,
all ENC's always on board and
always available



Final Messages



To the Hydrographic Office:

Work with your distributor –
listen to (some of) us



Final Messages



To the Ship Owners/managers:

1- Get involved, tell you national hydrographic office what you think, not want they want to hear. If you think the licensing model and prices are not suitable, say it.

2 - Work with your distributor



End of presentation

Thank you for your attention

George Arts

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