4th CSPCWG MEETING
Monaco, 13-15 November 2007

Paper for Consideration by CSPCWG

Extension of INT 1 to also comprise ECDIS symbols

Submitted by:	Denmark (Danish Hydrographic Office, Kort & Matrikelstyrelsen)
Executive Summary:	KMS would like to bring forward for discussion and possible further action by the CSPCWG a proposal to extend the current INT 1 to also include ECDIS symbolization.
Related Documents:	INT 1, S-52 appendix 2 Annex A. ecPILOT
Related Projects:	None known

Introduction / Background
The background for bringing this proposal to the attention of the CSPCWG and discussion during the CSPCWG4 meeting is that the Danish Hydrographic Office (KMS) is of the opinion that there might be a need for the ***user of ECDIS*** to have a kind of publication giving at least the simplified ECDIS symbols shown on an ECDIS screen. A kind of publication similar to INT 1 produced for the paper chart user.

Analysis / Discussion
Today the user of ECDIS does not have a simple kind of publication giving information on symbols used on ECDIS. The user can of course use the user's manual or click on the symbol in question to read some or even much information about that symbol. But the most important information is often 'disturbed' by a lot of other maybe less important information. It is apparent to KMS that to fully understand the meaning of the ECDIS symbols the user will have to be familiar with symbols and abbreviations used on a paper chart.

The Danish proposal is therefore to extend the current INT 1 to also comprise at least the simplified ECDIS symbols as shown in S-52 Appendix 2 Annex A. Especially those symbols which differ greatly from the symbols used on paper charts.

As also seen in S-52 Appendix 2 Annex A the ***producer*** of ENCs is given a cross reference to INT 1(which is *not* intended to be used by a *producer* of paper charts) but the current INT 1 (which is intended to be used by the user of a paper chart) does today not give a similar cross reference to S-52.
However it is the Danish view that giving a cross reference in INT 1 to S-52 is redundant as the cross reference is of no importance to the user.

Today there is to our knowledge no publication similar to INT 1 where the *user* can see all or just the simplified symbols used on ECDIS. One option could therefore be to add a new column to the current INT 1 called ECDIS symbols. Another option could be to add a new section called **'V** ECDIS simplified symbols'. change the current section 'V Abbreviations' to 'W Abbreviations' and delete the current section 'W International abbreviations' which in our opinion is redundant and of no interest to the user.

The meeting is invited to discuss the matter and consider possible further actions

Conclusions

Recommendations
It is recommended to extend the current INT 1 to also comprise the simplified symbols used on ECDIS

Justification and Impacts

Action required of CSPCWG
The CSPCWG is invited to discuss the possible benefit and implementation of the proposed extension of INT 1.
If found of any value to users to task the sub-WG with the task to rearrange and rename the current INT 1as to

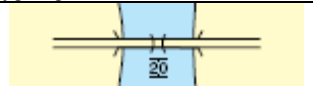read: **INT 1 symbols and abbreviations used on paper and electronic charts**

These are just examples if the current INT 1 is 'extended' with a column for ECDIS simplified symbols and not a complete table.
As you can see the references to M-4 are deleted due to the fact that this document is intended to be used by navigators and not chart compilers.

The vacant column is reserved for national symbolization

Bygninger — *Cultural Features* **D**

Andre bygninger				*Other Cultural Features*
23.1		Bevægelig bro (generelt) med fri højde *Opening bridge with vertical clearance*		

Q Flydende og faste sømærker — *Buoys, Beacons*

Sømærker med lys				*Lighted Marks*
7		Sømærker med lys vist i ældre søkort *Lighted marks on older charts*		
8		Sømærker med lys vist i flerfarve søkort *Lighted marks on multicoloured charts*		

130.3

N

NW

NE

Sort over gul
Black above yellow

Gul med sort bånd

Sort med gult bånd

W

Hindring
Point of interest

E

Yellow with black band

Black with yellow band

SW

SE

Gul over sort
Yellow above black

S

N   VQ
or Q

E   VQ(3)5s
or Q(3)10s

S   VQ(6)+LFl.10s
or Q(6)+LFl.15s

W   VQ(9)10s
or Q(9)15s

N

N

Hindring
Point of interest

W   E

S

N

E

S

W

130.4   Farve: Sort med rødt eller røde horisontale bånd
Top: 2 sorte kugler
Body: black with red horisontal band(s)
Topmark: two black spheres

BRB   BRB

BRB   BRB   *Fl(2)*

| 130.5 | Farve: røde og hvide vertikale striber
Top (hvis nogen): en rød kugle
Body: red and white vertical stripes
Topmark (if any): red sphere

Iso or Oc or LFl.10s or Mo(a) | |

Example if INT 1 is extended with a new section
If INT is extended with a new section, the column showing national symbols can be deleted from this section.

V Simplificerede symboler i ECDIS   *Simplified symbols on ECDIS*

Sømærker med lys			*Lighted Marks*
Q 7	▲ Fl.G ▮ Fl.R	Sømærker med lys vist i ældre søkort *Lighted marks on older charts*	
Q 8	▱ Fl.R Iso ● Fl.G	Sømærker med lys vist i flerfarve søkort *Lighted marks on multicoloured charts*	