

# ENC DATA QUALITY INDICATORS - REPORTING FORM

(to be returned to the IHB by 31 March 2010  
E-mail: [info@ihb.mc](mailto:info@ihb.mc) - Fax: +377 93 10 81 40)

Member State:	AUSTRALIA		
Contact:	Mike PRINCE	E-mail:	<a href="mailto:international.relations@hydro.gov.au">international.relations@hydro.gov.au</a>

## Which of the existing Data Quality Indicators are populated in your ENC's?

Please complete the following table. If you do not use or populate a particular S-57 Object or Attribute please indicate the reason in the comment column. Any other comments (for example, the meaning of attribute is unclear or ambiguous) will be helpful.

Object/ Attribute	Used or Populated (Yes / No)	Comment
M_ACCY	Yes	Used on Navigation Purpose 6 ENC's only. AU has very good topographic coverage and positioning, and considers that this attribute, which only applies to non-bathymetric features, is only required at the largest scales for operations such as berthing.
HORACC	No	Source documents from which horizontal clearances are derived generally do not quote the accuracy for the value of the clearance.
POSACC	Yes	For non-bathymetric features only, where M_ACCY has been applied (see comment on M_ACCY above). For bathymetric features, AU considers the main positional quality indicator for the mariner to be the CATZOC value populated in M_QUAL, as the population of POSACC on M_QUAL has no impact on display in ECDIS, and is restrictive as it can only be used to indicate a higher positional accuracy than that indicated by CATZOC. AU does not use POSACC on individual objects.
SOUACC	No	AU considers the main sounding accuracy quality indicator for the mariner to be the CATZOC value populated in M_QUAL, as the population of SOUACC on M_QUAL has no impact on display in ECDIS, and is restrictive as it can only be used to indicate a higher sounding accuracy than that indicated by CATZOC. AU does not use SOUACC on individual objects. However, AU is investigating use in the future of this attribute for M_QUAL to provide additional information to support dynamic underkeel clearance systems.
VERACC	No	Source documents from which vertical clearances are derived do not generally quote the accuracy for the value of the clearance.
M_QUAL	Yes	AU applies meaningful coverage of M_QUAL across the area of bathymetry for all ENC's.
CATZOC	Yes	AU applies meaningful values for CATZOC for all M_QUAL areas for all ENC's.
M_SREL	No	AU considers the quality indicator for the mariner to be the CATZOC value populated in M_QUAL, as the encoding of M_SREL has no impact on display in ECDIS, and the mariner is therefore not aware that additional quality information to that shown in M_QUAL exists unless they perform an ECDIS pick report. AU further feels that the information contained in M_SREL (which pertains mainly to individual survey information) does not supply the mariner with additional quality information to enhance safe navigation to that supplied in M_QUAL.
SURATH	No	Is only applicable to M_SREL. See M_SREL above.

SURSTA	No	AU considers that this information is of no use to the mariner and therefore does not populate it for ENC's. If it is considered of importance to indicate the date to which a CATZOC value has been determined (e.g. for areas of shifting bottom), AU has considered using the attribute SORDAT on the M_QUAL.
SUREND	No	AU considers that this information is of no use to the mariner and therefore does not populate it for ENC's. If it is considered of importance to indicate the date to which a CATZOC value has been determined (e.g. for areas of shifting bottom), AU has considered using the attribute SORDAT on the M_QUAL.
TECSOU	Yes	AU does not use TECSOU on M_QUAL, but does use TECSOU on individual isolated objects where the technique of sounding is not necessarily reflected by the value of CATZOC in M_QUAL e.g. depths over wrecks and obstructions found by diver.

Additional comments (if required)

While AU does not use many of the quality indicators available in S-57 in its ENC's, we do use most of the quality indicators listed above in our source Digital Hydrographic Database (DHDB) to fully describe the quality and source of the data to be used in product compilation, and they are not prohibited for use on AU ENC's - there may be individual cases in future where it may be required to encode them on a product. Additionally, while AU applies meaningful values of CATZOC for the mandatory M\_QUAL coverage of areas of bathymetry for all ENC's, the merit of doing this for Navigation Purpose 2 (based on our 1:1500000 paper chart series) and Navigation Purpose 1 (based on our 1:3500000 paper chart series) has been questioned in regards to its usefulness at such small scales.

Name/Signature:



Date:

29 March 2010

Mr Mike Prince  
Director Charting Services  
Australian Hydrographic Service

NOMINATION for MEMBERSHIP of the DQWG

(to be returned to the IHB by 31 March 2010  
E-mail : [info@ihb.mc](mailto:info@ihb.mc) - Fax : +377 93 10 81 40)

Member State:

Based on the DQWG ToR at Annex C, and taking into account the current membership ([www.iho-ohi.net/mtg\\_docs/com\\_wg/DQWG/DQWG\\_MISC/DQWG\\_Members.pdf](http://www.iho-ohi.net/mtg_docs/com_wg/DQWG/DQWG_MISC/DQWG_Members.pdf)):

- Do you confirm your nominee(s), if he/she/they appear(s) in the existing membership list?

YES ☐

NO ☐

Not Relevant ☒

- Do you wish to propose a candidate as DQWG member?

YES ☐

NO ☒

If yes, name of candidate:

E-mail:

Comments (if required)

While AU does not currently have the resources to commit to full membership of this IHO Working Group, we are interested in keeping abreast of and possibly participating in any discussions that may be occurring by correspondence. Accordingly, it would be appreciated if this could be facilitated by adding Jeff Wootton ([jeff.wootton@defence.gov.au](mailto:jeff.wootton@defence.gov.au)) to the mailing list for the Working Group.

Name/Signature:



Date:

Mr Mike Prince  
Director Charting Services  
Australian Hydrographic Service