

IMPACT OF ENC

PRODUCTION ON

BRAZILIAN DHN

(Diretoria de Hidrografia e Navegação)

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20th CHRIS, Niterói 2008

HILL AND REAL

ENC in-house production

- DHN (CHM) began to gather knowledge in late 90s;
- Few people were qualified for ENC production;
- Difficulties with English idiom and software tools;
- Lack of in-house expertise;
- No funds for systematic training;
- Few cells produced, none distributed.



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ENC production recently

- technical visits in HOs (UKHO, CHS, IH, SHOA);
- representatives in IHO committees and WG (latest 5 years);
- bilateral agreement with UKHO, including IC-ENC co-operation for ENC distribution;
- investments in people qualification and training;
- Brazilian ENC schema established in 2008 (156 cells);
- Private company contracted in November 2007 for data capture (156 ENCs) to accomplish the ENC coverage by 2010;
- ISO 9001:2000 certification for Nautical Charts Production and Planning (last week).



ENC Planning

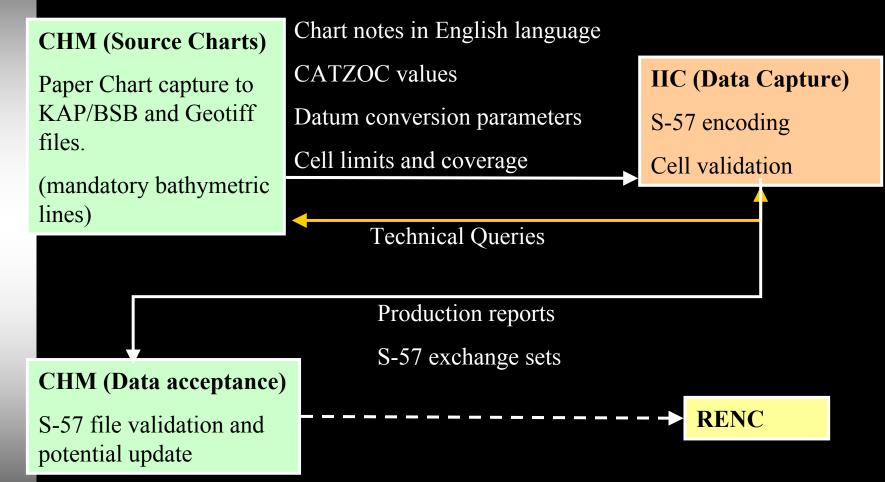
	2008		2009	2010
	PLANNED (54%)	PRODUCED (51%)	PLANNED (25%)	PLANNED (21%)
OVERVIEW/ GENERAL	3	3	3	3
COASTAL	11	11	9	6
APPROACH	34	32	17	20
HARBOUR/ BERTH	37	34	10	3

TOTAL AVAILABLE: 80 of 156 (Oct2008)

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ENC outsourcing production workflow

List of Lights info



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FIAENS

ENC production challenges

- Metadata collection and organization;
- Production Database to resolve inconsistency problems;
- New surveys in critical areas with no eligible data;
- To keep people proficiency.

NHA DO BO

AFIAENS



Thank you ...

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