

Paper for Consideration by NCWG

Depiction of Satellite Derived Bathymetry

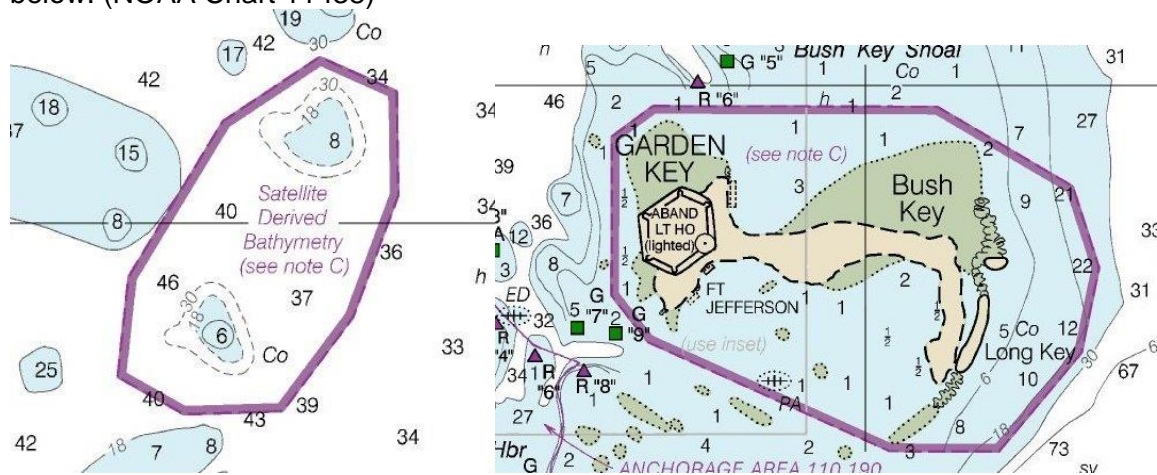
Submitted by:	UKHO
Executive Summary:	Depiction of Satellite Derived bathy on paper charts and ENCs
Related Documents:	CSPCWG11-08.7A (SDB)
Related Projects:	For consideration among HOs considering the use of SDB

Introduction / Background

The use of Satellite Derived Bathymetry is becoming more commonplace, however there is no specific guidance in S4 regarding a standardised depiction.

Analysis / Discussion

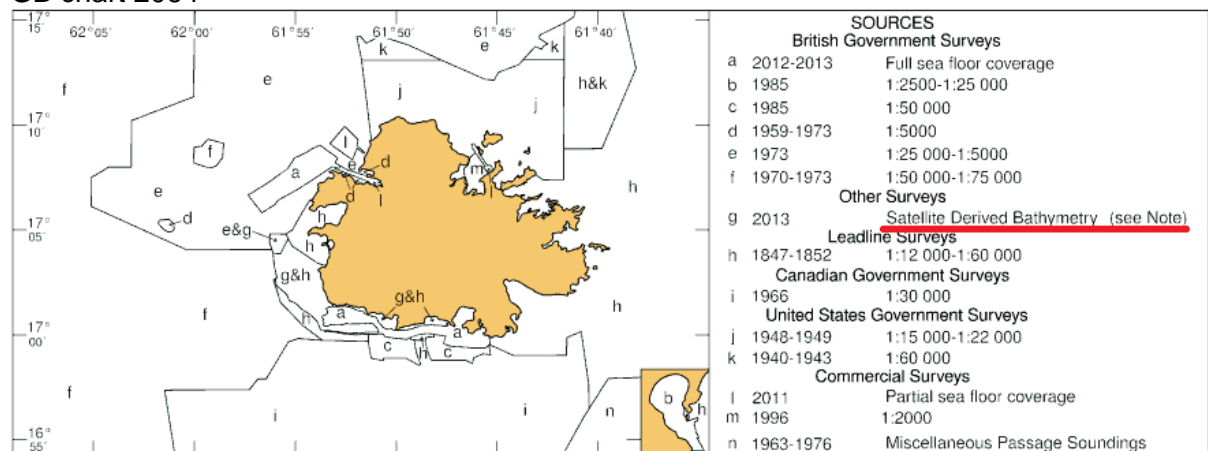
Several HOs have now incorporated SDB into their products, different example shown below: (NOAA Chart 11438)



NOTE C
SATELLITE DERIVED DEPTHS

Depths within the area indicated are derived from satellite imagery from 2015-2016. Their vertical accuracy is typically ± 7 ft. Uncharted dangers may exist.

GB chart 2064



SATELLITE DERIVED BATHYMETRY

Depths within the area shown on the Source Diagram are mainly derived from satellite imagery. Their vertical accuracy is typically $\pm 3\text{m}$. Uncharted dangers may exist. For further information, see Admiralty publication 'The Mariner's Handbook'

ENC depiction:

M_SREL Survey reliability

ENC Harbour 1:22,000 GB502066)

Attrib SURATH (Survey authority) = UKHO Satellite Derived Bathymetry

Considerations:

- Should there be a proposed standard depiction for SDB on paper charts and ENCs described in S4?
- Is information defining how the survey data was gathered too much detail for the mariner?
- Potential cost implications can be reduced by implementing a standard in the short term, rather than use of SDB become more frequent and a standard be defined which must be added retrospectively to published products.

Conclusions

To ensure efficiency for chart production and maintenance, a standard depiction for SDB should be provided to prevent retrospective change in future.

Recommendations

Consider the example and define the standard.

Justification and Impacts

- S4 will be impacted.
- Currently limited numbers of published products (by NOAA, SHOM, UKHO and CHS) will be impacted.
- There is potential impact on the proposed section V for INT 1.
- Should this be discussed at the other IHO working groups e.g. ENCWG, S100WG or DQWG.
- Priority: low

Action required of NCWG

The NCWG is invited to:

- a. endorse
- b. agree there is a requirement to standardise depiction / reference to SDB.
- c. note