

United States Department of Commerce
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Coast Survey
Hydrographic Surveys Division
Atlantic Hydrographic Branch

NOAA's H-Cell Sounding and Feature Management

Edward Anthony Owens



Cartographic Team Leader Physical Scientist, NOAA NOTE TO ATMOSPHERIC ROMMISTRATION Miami, Florida Tenix LADS Ladar 2008 V.S. DEDARTMENT OF COMMERCE

Survey Scale Sounding Selection and Contour Generation

MetaObjects and Depth Areas

Survey Soundings Charted Soundings

Interface

Chart Scale Sounding Selection <u>Deconflicted</u> with regard to Survey/Chart Interface

Chart Scale Sounding Selection <u>Deconflicted</u> with regard to Survey Contours

Feature Management Process with Caris and NOAA Pydro

Feature Processing In

Caris S-57 Composer and Caris BDB Base Editor

Future Gains

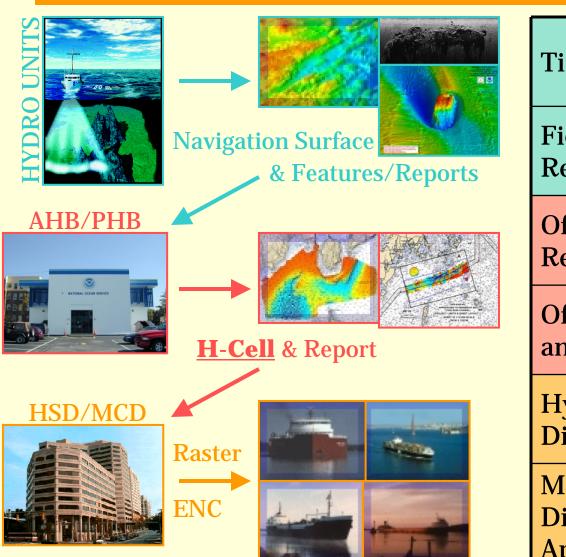
Increases in AHB's productivity and rigor will rely to some extent on Caris' continued product advancements

- Capable semi-automated sounding selection/suppression final sounding process
- Process performance improvements
 - Multi-Res / Variable-Res grids-easier handling
- A robust well integrated feature management solution



Many Thanks! Questions...

NOS Ping to Chart in 90 Days Goal



Tides	1 week
Field Processing / Report	3 weeks
Office Survey Review	3 weeks
Office Cartography and Approval	2 weeks
Hydro Survey Division Review	1 weeks
Marine Chart Division Application	3 weeks

NOAA H-Cell

...Is an S-57 chart scale representation of the survey results

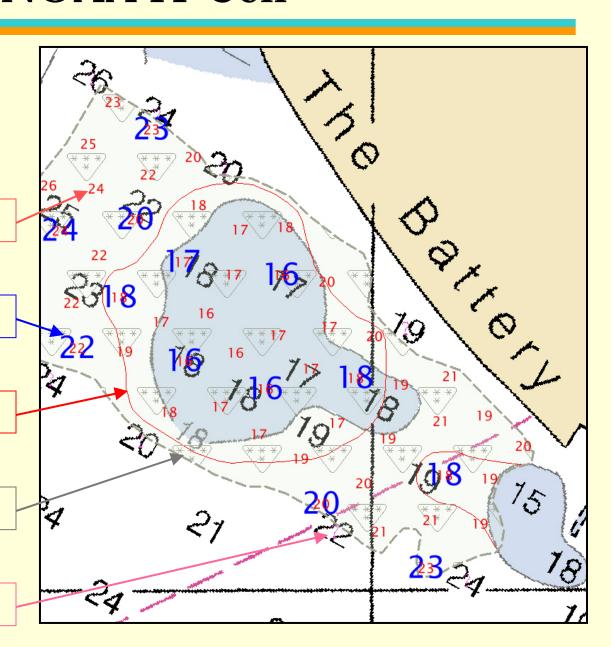
Survey Scale Soundings

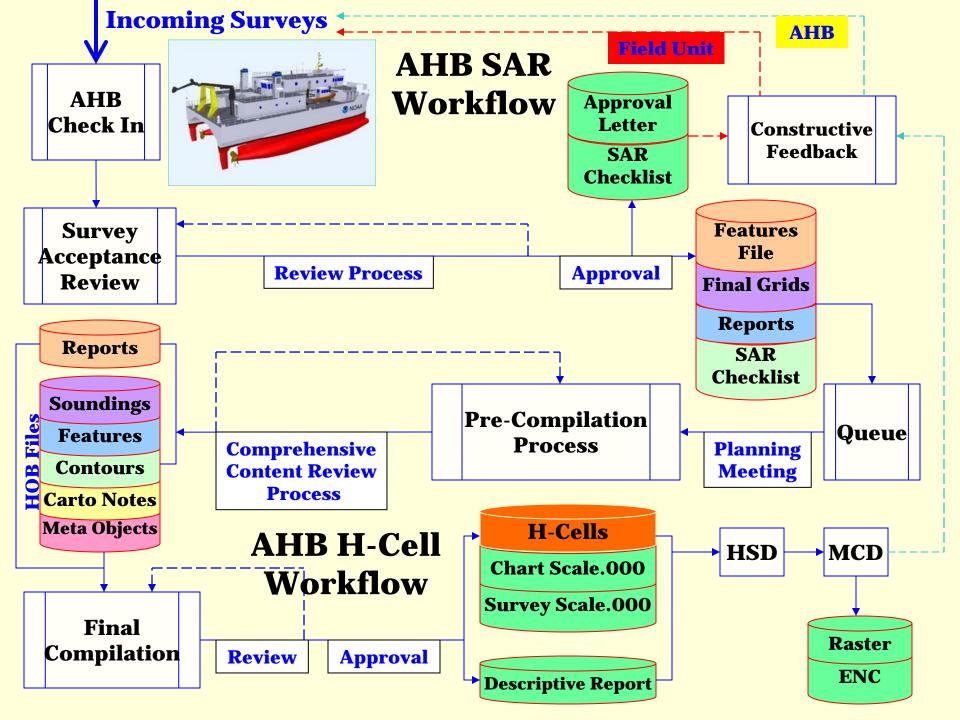
Chart Scale Soundings

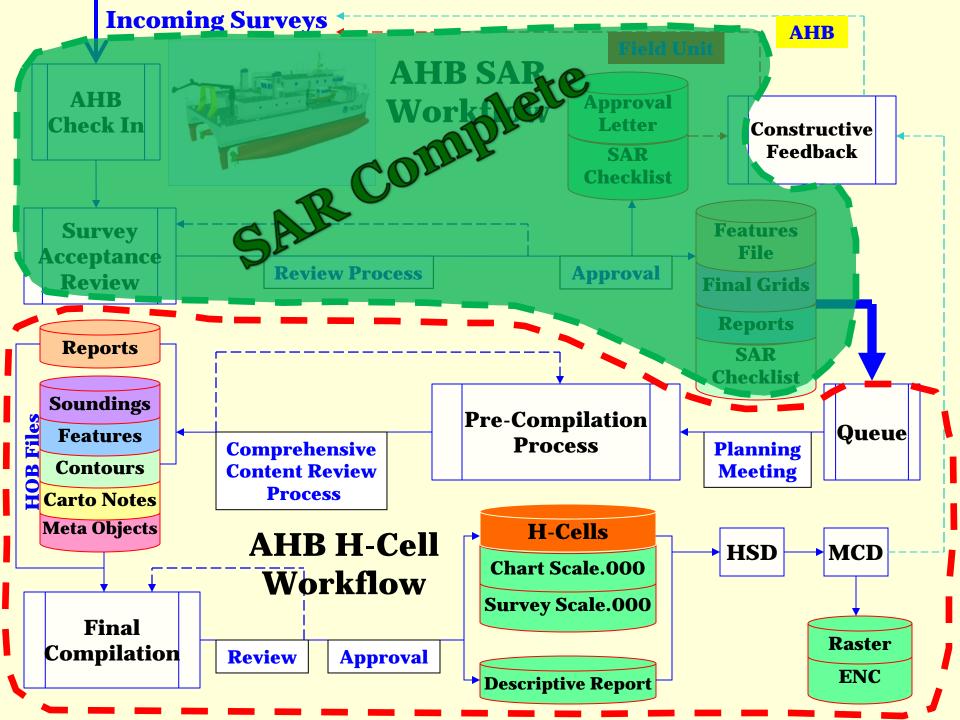
Survey Depth Contours

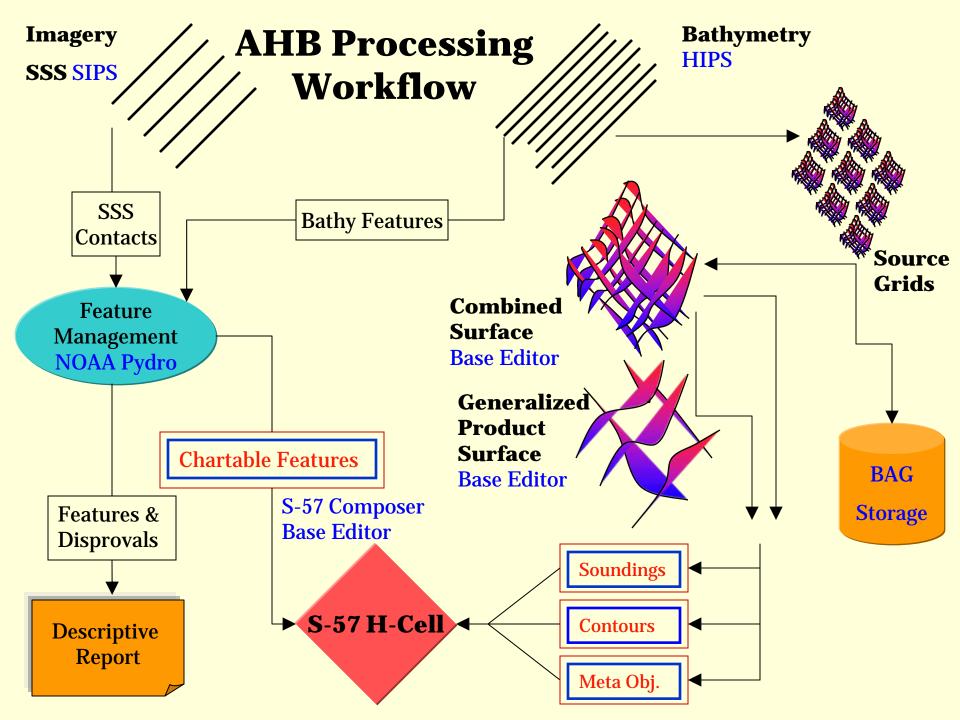
Meta Objects

Cartographic Notes





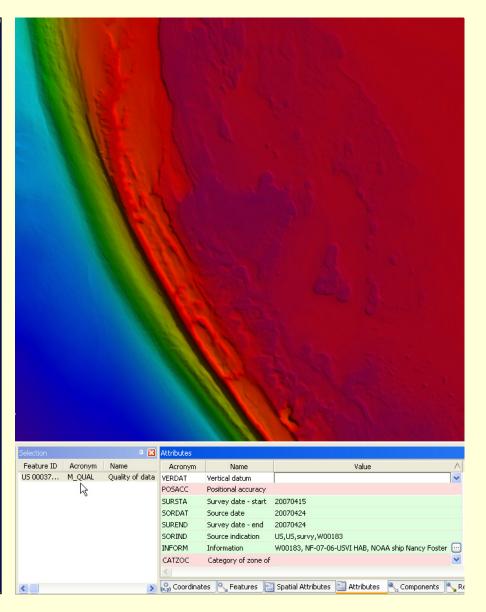




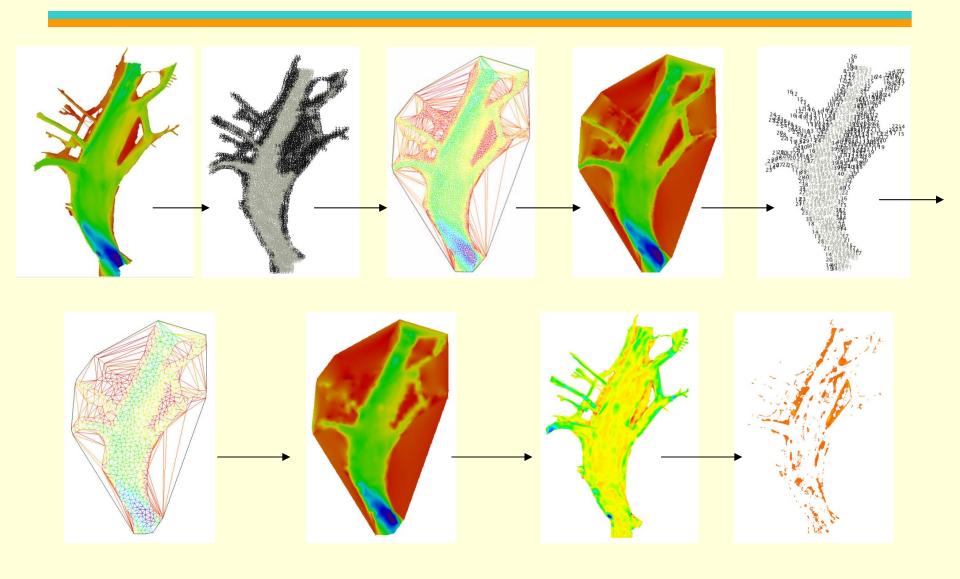
NOAA H-Cell Product Specification

S-57 Export Options NOAA H-Cell (H-Cell Product Specification) 🐱 Product: Intended Usage: 4 - approach Edition Number: 7/ 1/2008 Issue Date: Vertical Datum: 16 - mean high water Sounding Datum: 12 - mean lower low water Compilation Scale: 10,000 Note: NOT FOR NAVIGATION. Comment: This dataset is not an official S-57 ENC. Unicode National Attributes OK Cancel

S-57 Mandatory Attributes



Semi-Automated Chart Scale Sounding Selection Process Quality Control



Semi-Automated Chart Scale Sounding Selection Process Quality Control

