

NOAA's Office of Coast Survey

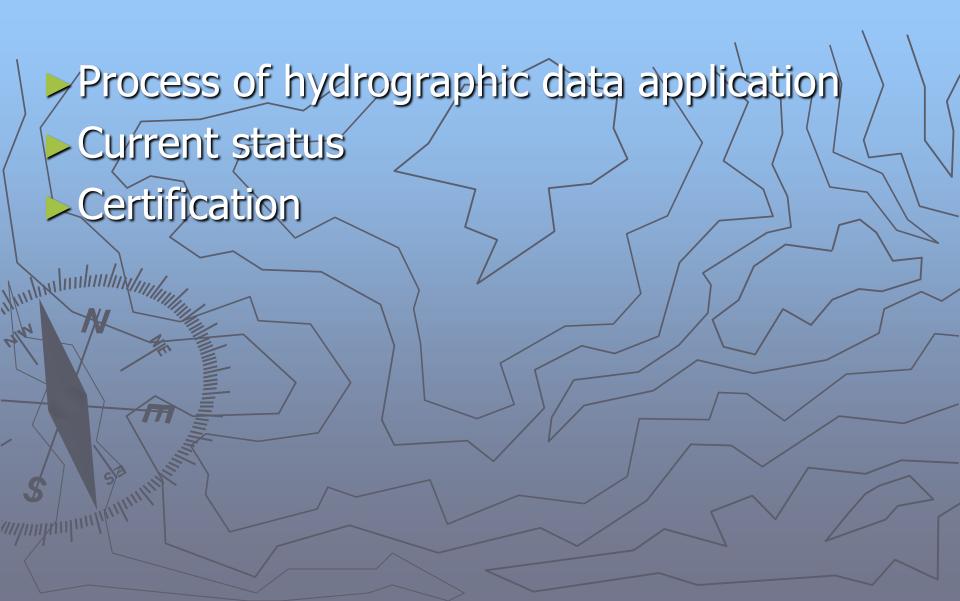


Accelerating Data Integration Into Charts

(Including a discussion on the role of hydrographic certification)

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Outline



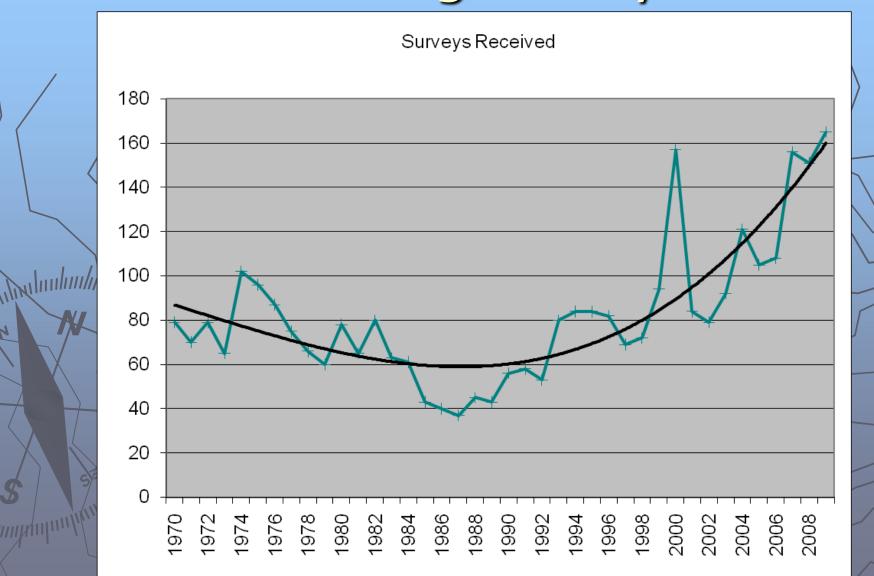
Ping-to-Chart

- Hydrographic data collected
 - First ping-through last ping
 - Field processing
- Data delivered to HSD
 - Verification, Quality Assurance
 - Compilation product to update chart
- HSD delivers to MCD
 - MCD updates nautical chart
 - Distributes to public

Data Verification

- All hydrographic data-comes through HSD for validation and compilation
 - Inhouse, direct contract, U.S. Navy, USGS, state, local, etc.
 - Only exception is Army COE
 - COE has authority over maintained channels
 - COE data goes directly to MCD

Incoming Surveys



Ping-to-Chart

- Prior to 2008 more surveys received than could be validated and compiled at HSD
- Process improvements start paying benefits in 2008
 - FY2008 151 surveys in; 185 out
 - FY2009est 165 in; 275 out
- Survey inventory and ping-to-chart times dropping dramatically.

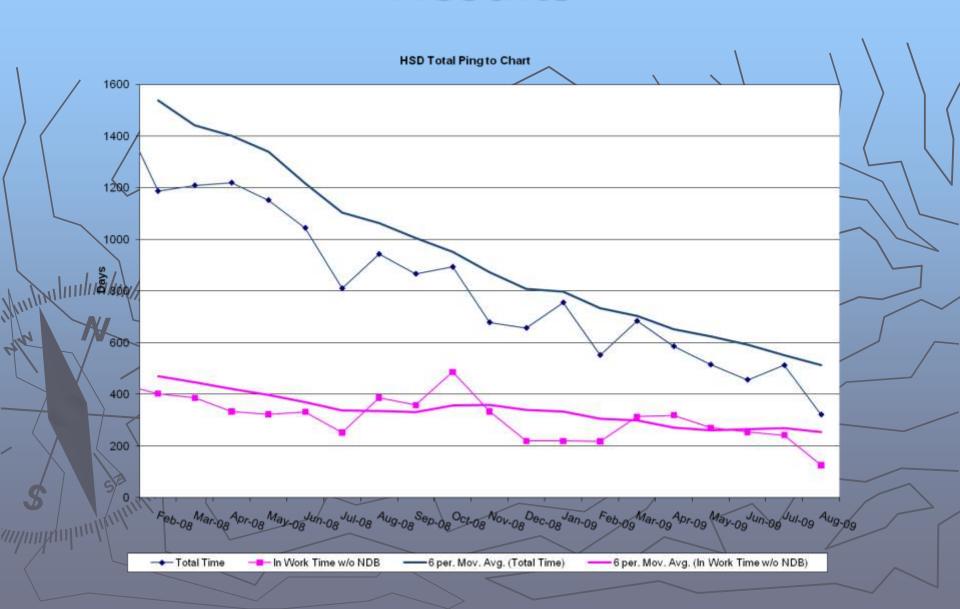
DTON

- /Important Note:
- However, more general changes would not make it to the chart for several years.

Ping-to-Chart

- HSD now has the processes in place to handle the flow of incoming surveys
- Important for survey to follow OCS Specs and Deliverables (available on-line)
 - Other formats, processes, etc., difficult to handle

Results



Field Time

- Historically, largest component of "Total Time" was queue time
 - Time survey sat on shelf waiting
- Due to decreases in inventory, largest component of "Total Time" is now "Field Time"
 - Time from last ping until the survey is delivered to HSD

MCD and NCSII



- Currently no requirement

 Government positions filled competitively
 - Contractor selection it is taken into consideration, but is not a requirement
 - Would not remove the need for HSD to validate a hydrographic survey and produce product for MCD

- American Congress on Surveying and Mapping (ACSM) and The Hydrographic Society Of America (THSOA)
 - No official relationship with OCS or NOAA
 - First certificate awarded in 1985
 - 200 total, about 100 still "active"
 - Since 2001, 69 applications, 32 certified
 - 5 years experience + 3 hour exam

- /IHO Cat A

 - A course of study is certified
 Usually about one-year in length
 - UNH and USM only two in U.S.
- IHO Cat B
 - Shorter course (~6 months)
 USM only in U.S.

- OCS working with ACSM to make certification more relevant
- OCS and Navy beginning discussion on government training and career ladder
- OCS inhouse training and development

Summary

- HSD has made significant improvements in its ping-to-chart times
- Key is getting clean, complete data that follows OCS Specs and Deliverables
- Certification may play a role, but would not be a "cure all"

