

FarSounder CSB Update

CSBWG: March 2021

Growing Contributions

- Over 30 TB Returned to FarSunder
- 50 TB Drive Currently Deployed
- Focusing on Fleets / Exotic Routes

Collected Data: Today

What FarSounder Collects

- All raw 3D FLS hydrophone data
- All incoming NMEA data
 - gps, gyro, speed log, echosounder
- All metadata related to installation details
 - vessel characteristics
 - gps antenna locations
 - echosounder locations
 - FarSounder 3D FLS locations

What is Contributed to DCDB

- SBES depth from ship's NMEA
- Location from ship's NMEA
- Related metadata

Future Contributions

What Could be Contributed

- “Multibeam” data from 3D FLS
 - FarSounder 3D FLS does not exactly fit traditional 2D multibeam data model
- Sound Speed Corrections
- Related metadata

Limitations Preventing this Today

- NRE to adapt FarSounder data to existing 2D multibeam data model

R&D Opportunities

Antarctic Survey

- Multiple Vessels
- Multiple Trips per Vessel
- Large Overlap per Trip/Vessel
- Compare Multiple Years

Crowd Sourced Sound Speed Corrections

- Realtime, No CTD Needed
- Proof of Concept Completed
- FarSounder Patent Pending