



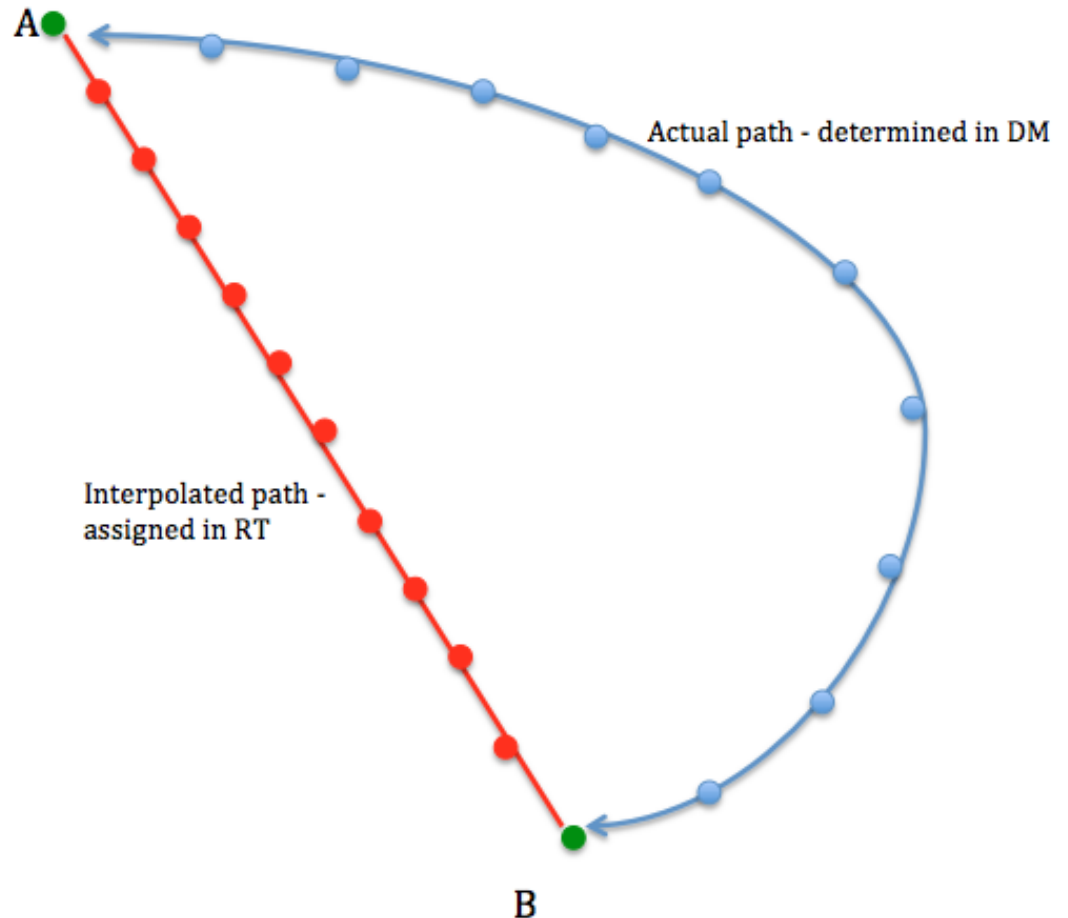
Position Information for Under-Ice Floats in Delayed Mode



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Positioning: What Information Do We Need in DM?

- Position error and/or accuracy
- Position QC
- Positioning system (GPS, Iridium, RAFOS etc.)
- Method used to derive position (if not directly returned by a positioning system)



Proposal for Profile Files

- Position QC is already in profile files
- POSITIONING_SYSTEM in file
- Suggest adding two optional variables:
 - POSITION_ERROR
 - POSITION_COMMENT
- POSITION_ERROR would contain a numerical error estimate and is supported by AST
 - Appropriately named and easy to find for users
 - Units can be specified in the attributes
- POSITION_COMMENT would be a string where the PI could describe method used to find estimated position

Next Steps

- Seek possible endorsement of this option by ADMT pending agreement from Esmee and any other groups with under-ice positions
- If agreed upon, present at the AST-19 meeting and if approved, make change to user's manual and alert users

Trajectory file

- More discussion and research to agree on how to store RAFOS positions in traj file
- Potential impacts on POSITIONING_SYSTEM, POSITION_ACCURACY, AXES ERROR ELLIPSE and measurement codes
- Consider whether estimated positions and Iridium positions should be stored in traj file; if so, come up with proposal on how to do this