How to implement travel time to particle swimming velocity:

1. At all receiving station and for the observed telemetry data, get estimates of travel time distribution (inverse Gaussian distribution) parameters.
2. Run PTM simulation and calculate travel time for each particle at those receiving stations
3. Estimate distribution parameters from the simulated particle travel times
4. Compare with observed parameters
5. Run simulation again with different swimming velocity to get another set of parameters. Varying swimming velocity and run again until estimated parameters from simulation is close enough to the estimated parameters from field observations
6. When do the simulations, make assumptions, e.g., fish doesn’t swim during flood tides.
7. PEST may be used as long as parameter estimates can be atomized with equations.
8. But if swimming velocity as model parameter, another set of data is needed to do the validation.

Tag data analyses will give reach specific travel time GLMs, e.g., T(x,y,z,…)

T is travel time from point A to B and x, y, z are the factors affect T.

My question is how long it takes from an insertion point to certain location in delta. The travel time should be related to distance from the insertion point, flow, routes, etc. But how to get the flow data, should use DSM2 simulated flow?

Travel time is calculated according to specific reach’

1. Calculate the travel time according to statistical model, get travel time
2. Calculate the travel time according to