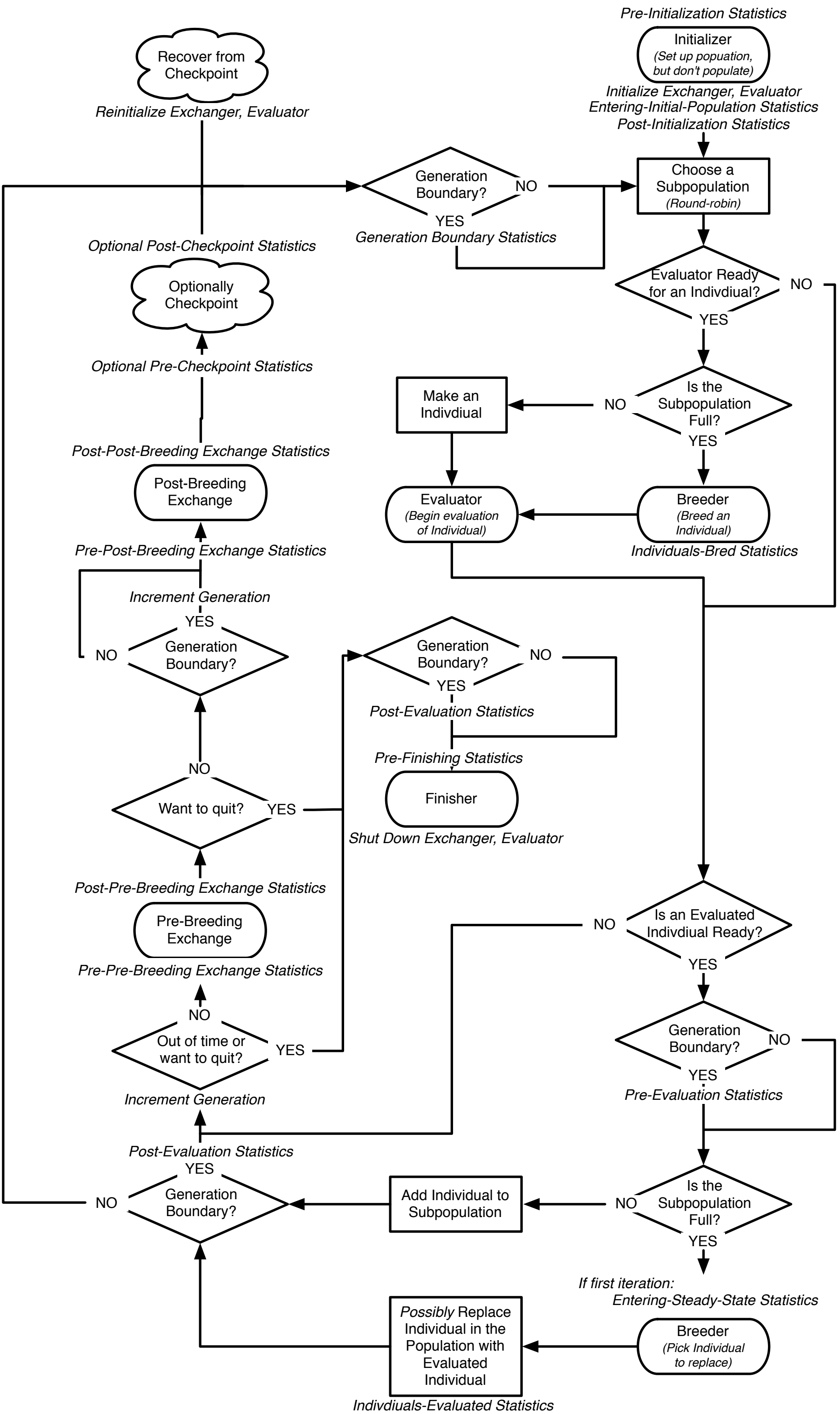
Pre-Initialization Statistics
Initializer
(Set up popuation, but don't populate)
Initialize Exchanger, Evaluator
Entering-Initial-Population Statistics
Post-Initialization Statistics
Recover from Checkpoint
Reinitialize Exchanger, Evaluator
Generation Boundary?
NO
YES
Generation Boundary Statistics
Choose a Subpopulation
(Round-robin)
Optional Post-Checkpoint Statistics
Evaluator Ready for an Indivdiual?
NO
YES
Optionally Checkpoint
Optional Pre-Checkpoint Statistics
Is the Subpopulation Full?
NO
YES
Make an Indivdiual
Post-Post-Breeding Exchange Statistics
Post-Breeding Exchange
Evaluator
(Begin evaluation of Individual)
Breeder
(Breed an Individual)
Pre-Post-Breeding Exchange Statistics
Individuals-Bred Statistics
Increment Generation
YES
NO
Generation Boundary?
Generation Boundary?
NO
YES
Post-Evaluation Statistics
Pre-Finishing Statistics
NO
Want to quit?
YES
Finisher
Shut Down Exchanger, Evaluator
Post-Pre-Breeding Exchange Statistics
Pre-Breeding Exchange
Is an Evaluated Indivdiual Ready?
NO
YES
Pre-Pre-Breeding Exchange Statistics
NO
Out of time or want to quit?
YES
Generation Boundary?
NO
YES
Increment Generation
Pre-Evaluation Statistics
Post-Evaluation Statistics
YES
NO
Generation Boundary?
Add Individual to Subpopulation
Is the Subpopulation Full?
NO
YES
If first iteration:
Entering-Steady-State Statistics
Possibly Replace Individual in the Population with Evaluated Individual
Breeder
(Pick Individual to replace)
Indivdiuals-Evaluated Statistics