

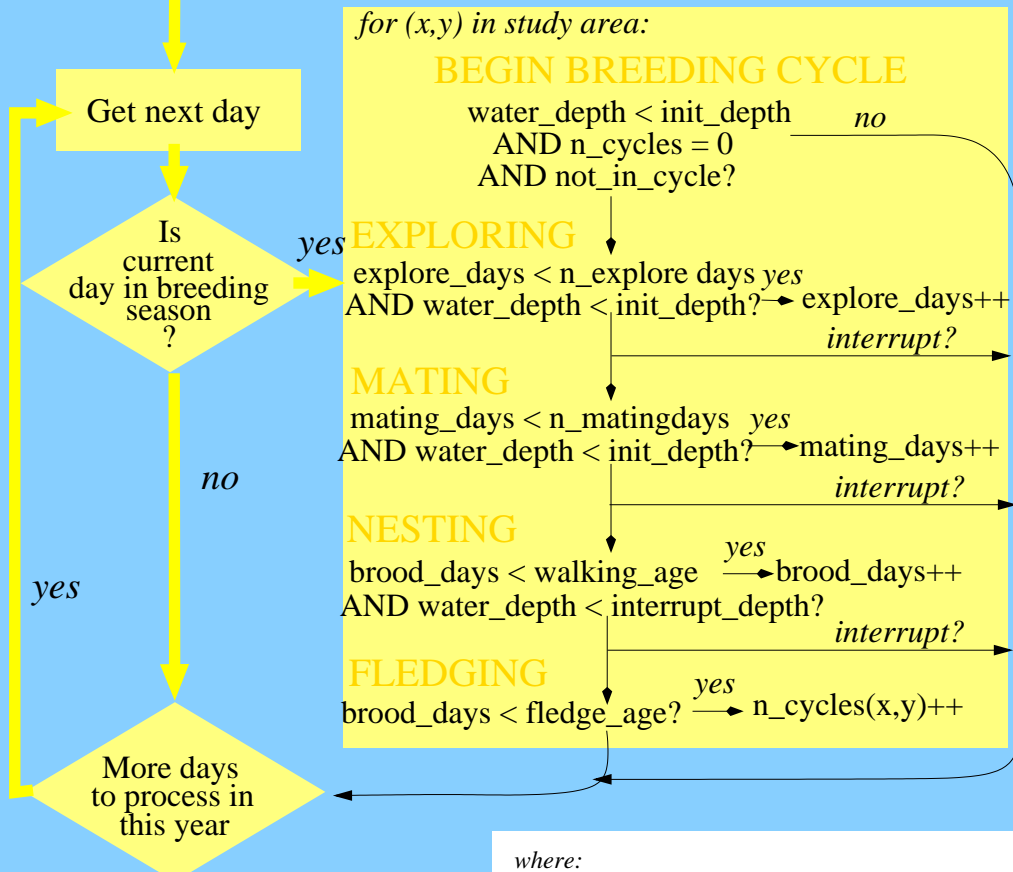
Cape Sable Seaside Sparrow SESI Core

Parameters

init_depth (cm)	5
interrupt_depth(cm)	16
n_exploredays	5
n_matingdays	5
walk_age (days)	33
fledge_age (days)	40

$$\text{StudyArea}(x,y) = \begin{cases} 1 & \text{if suitable.} \\ 0 & \text{otherwise.} \end{cases}$$

Suitable FGAP habitat types:
Muhlenbergia



where:

- n_cycles = number of successful breeding cycles
- MaxCycles = max, number of possible cycles
- site_factor = degree of habitat/location suitability
=MIN(habitat factor, nesting success factor)
- hydroperiod_factor = long-term water effects:
reduce index if mean cumulative hydroperiod is
< 3 months or > 7months



$$\text{IndexMap}(x,y) = \frac{n_cycles(x,y)}{\text{MaxCycles}} * \text{site_factor}(x,y) * \text{hydroperiod_factor}(x,y)$$