Wading Bird SESI Core

Parameters

	Short-legged	Long-legged
Radius (km)	1.5	3.0
Cycle len.(days)	21	54
LoWaterlim (cm)	0	5
HiWaterlim (cm)	20	35
End season date	31May	15JUL

Habitat cutoff (%)	50
Urban cutoff (%)	25
Start season date	1JAN
Reversal threshold (%)	20
Foraging area reversal(%)	20

StudyArea(x,y)= { 1 if suitable. 0 otherwise.

Suitable FGAP habitat types:
Freshwater marsh, Mangroves, Muhlenbergia, Eleocharis, Typha, Spartina

Get next day

Is current day in breeding season ?

yes

no

for (x,y) in study area:

Is (x,y) in foraging cycle? —*no*→ Start cycle?

yes ↓ *yes* *no*

LoLimit < water depth < HiLimit?

depth for day(i) > depth for day(i−1)?

Interrupt cycle? —*yes*→

no ↓

Increment cycleday count

Cycle completed? —*yes*→ NC(x,y)++

no

yes

More days to process in this year ?

no

for (x,y) in study area

$$\text{IndexMap}(x,y) = \frac{NC(x,y)}{MaxNC} * \text{FeedingRadiusFactor}(x,y)$$

where:
NC = number of successful foraging cycles
MaxNC = max, number of possible cycles
Feeding Radius Factor = percent of pixels within foraging radius that are suitable
if < 50%, Feeding Radius Factor = 0

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