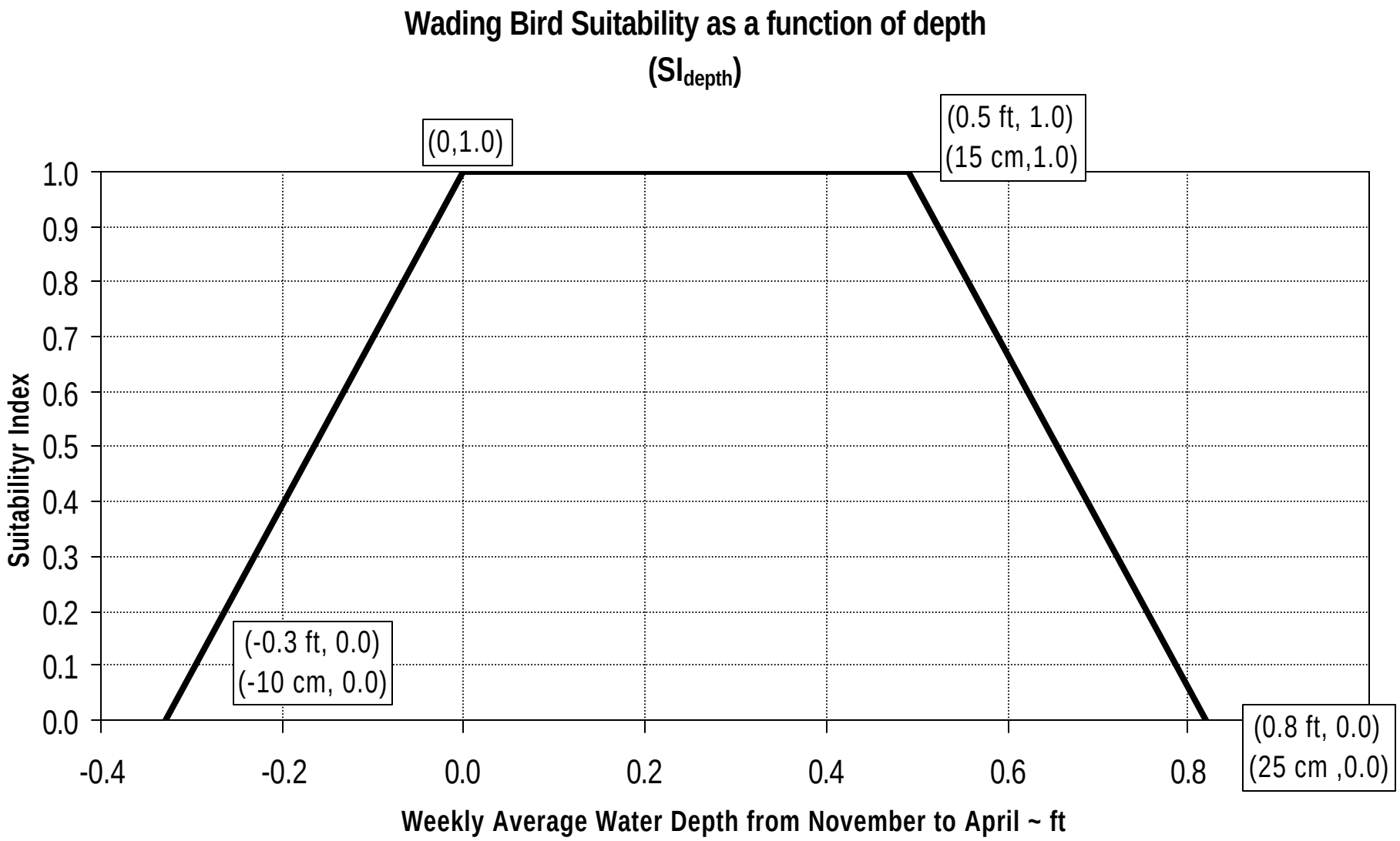
Suitability Indices for Wading Birds

- Suitability as a function of depth SI_{depth}

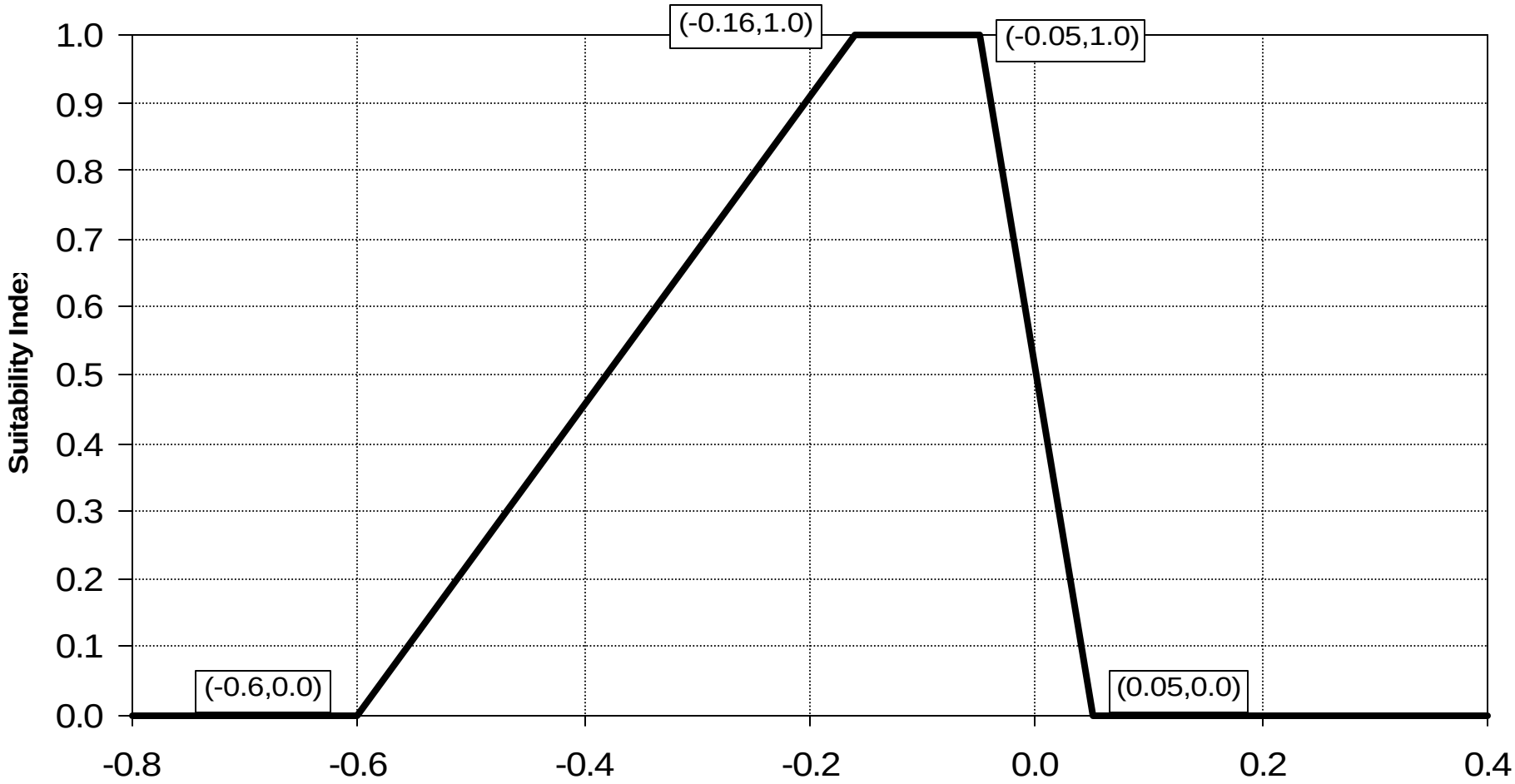
- Suitability as a function of recession rate $SI_{recession}$

- Wading Bird suitability $SI_{WB} = \min(SI_{depth}, SI_{recession})$
    - for, Remnant Everglades, Coastal Zone, Interior Zone

- Suitability for Wood Storks, White Ibis and other Small Herons are functions of SI_{land}


Wading Bird Suitability as a function of depth
(SIdepth)
(0,1.0)
(0.5 ft, 1.0)
(15 cm,1.0)
(-0.3 ft, 0.0)
(-10 cm, 0.0)
(0.8 ft, 0.0)
(25 cm ,0.0)
Suitabilityr Index
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
-0.4
-0.2
0.0
0.2
0.4
0.6
0.8
Weekly Average Water Depth from November to April ~ ft

Wading Birds Suitability as a function of Recession Rate
For Short and Long Legged Wading Birds ($SI_{recession}$)



Wading Bird Suitability

For each cell, each week, Wading Bird Suitability,

$$SI_{WB} = \min(SI_{depth}, SI_{recession})$$

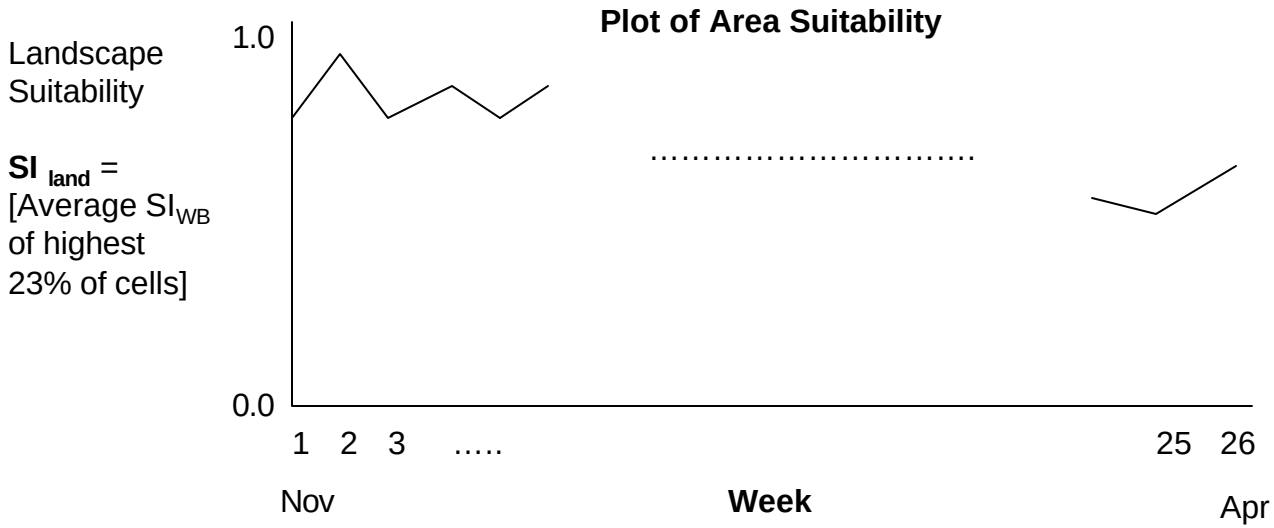
For each week, landscape level habitat suitability,

$$SI_{land} = \text{average } SI_{WB} \text{ of highest 23 percent of cells}$$

For Remnant Everglades with 666 cells use average SI_{WB} of highest 150 cells

For Coastal Zone with 217 cells, use average SI_{WB} of highest 50 cells

For Interior Zone with 449 cells, use average SI_{WB} of highest 100 cells



Wading Birds
Landscape Level Habitat Suitability

- Wood Storks

  $SI_{wost} = \text{mean } SI_{land}$ (Jan- Mar)

- White Ibis and other Small Herons

  $SI_{wish} = 1 - [\#\text{ weeks } SI_{land} (\text{Mar-Apr}) \leq 0.5]/6$

  If $[\#\text{ weeks } SI_{land} (\text{Mar-Apr}) \leq 0.5] > 6$, $SI_{wish} = 0$

SFWMM grid cells Applicable for Wading Birds