Supplementary materials

S1. Program distribution.

Free open source code, documentation and sample applications can be downloaded from http://abe.ufl.edu/carpena/software/swingo.shtml

S2. SWINGO algorithm flowchart

FLOWCHART: SWINGO.F
INFILTRATION UNDER SHALLOW WATER TABLE

NOTES: ip = initial ponding at t=0
WT = water table
z_w = effective depth to WT
WTD = total depth to WT
t_{end} = end of simulation
NPOND=1 (ip); =0 (no-ip)
NFORCE= surface flooding is forced (i.e. by a lateral field
condition) at SCHCK (=1)
fw= infiltration under BC 1-3 (t>tw)
L=storm period (L≠LO new period)
Grey color: redundant with other cases