

- and . Francisco of 4 homested annually (regional) - enalet - triver at 10-40 a intovols - goliey - afterted (stand) -> external flux prescribes Ba: fale of cutting residues -> residue litter - teed back to litter Hux and decomp. (direct) - indirect effect on with. LITTE INFUTS ! AS NOW - living: tree-litter T; Mc; It; turover Fine root litter : + (4); positive 6w litter: +(4); regative stope DECOMPOSITION - compare and discuss DET UNKNOWN alternatives: moons trends, mange
10 correct Ojaner - approach; eq (S1) with eq. (9) 2 revised Gover anginical approach Foec = f (with, Tas) Obtain from WID = F(4, region) E Sus, / sparky-seat Simulations Ask: i) How diverent are results and sensi-tivities when two smodels based on some

tota are used?

ii) Do we have trent in 30 yr rurning avorage WID (Sus), data available?)? Do we have positive strong correlation with with and Tas? It not, arguments for current - If with tegendency is introduced, what hoggers to T-sensitivity, i.e. effect of regional warming? 3°) Yasso 07 For all litter + Dq = + (wts, T.) - For intuitive solution of eq. 51 effective 1-good conort-based model. DX = - KMLi J= cohort DML = { DML; L= effective decay rate over all -> we get & of Me - terms Yasso gools

Rationale: Majority of little produced into oxic layors => should becompose without with -dependency. Then litter decomposition also consistent with how residue litter currently decomposed. And consistent with mineral soil 646 inventory.

2) How to Formulate peat decomposition De ?

- f (Tay) -> Qno ~2, take as given. Note: trad

- f (WID) -> Oxic layer degree . The state of the state expective & depth of WID but can we assume home =- with? oric geat mass decomposes aroundly. Thus Dp X K Mp, omz x f (Tg), where Mp, oxic ~ - 3 wts . In reality, 3= 56(3) = f(wms). | So = bake density, Hopean type | Tos = Hours to account for k = + (peal type, 3,)