

Fig 1. The tests of oscillations in revised soil thermodynamics (a) point at humid region:25E,0N),0H-24H,3 January
 CTL: standard ORC, 7.5min step; EXP1: Same as CTL BUT with revised thermodynamics; EXP2: Same as EXP1 BUT no convection

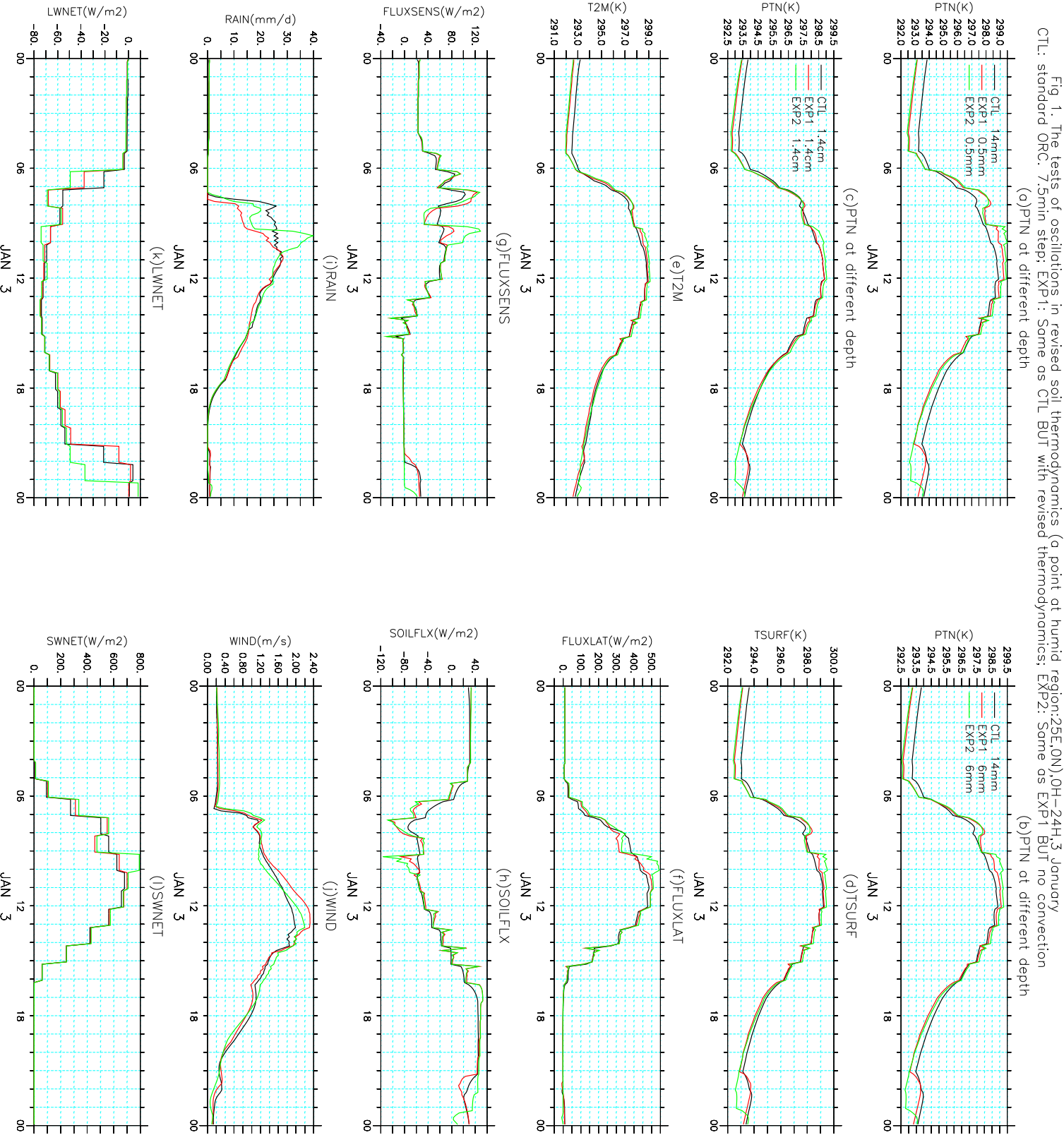
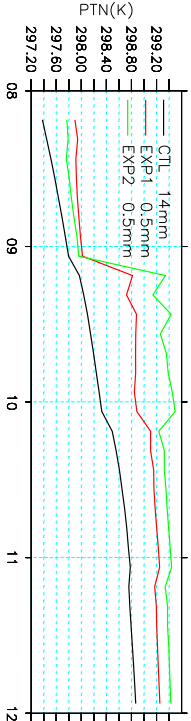
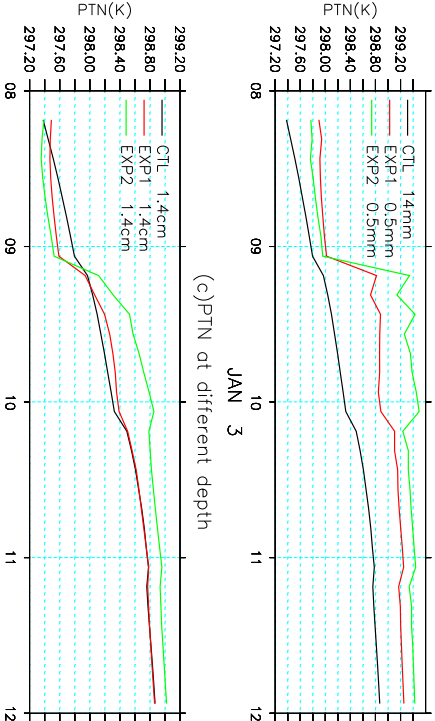


Fig 2. The tests of oscillations in revised soil thermodynamics (a point at humid region;25E,0N),8H-12H:3 January
 CTL: standard ORC. 7.5min step; EXP1: Same as CTL BUT with revised thermodynamics; EXP2: Same as EXP1 BUT no convection

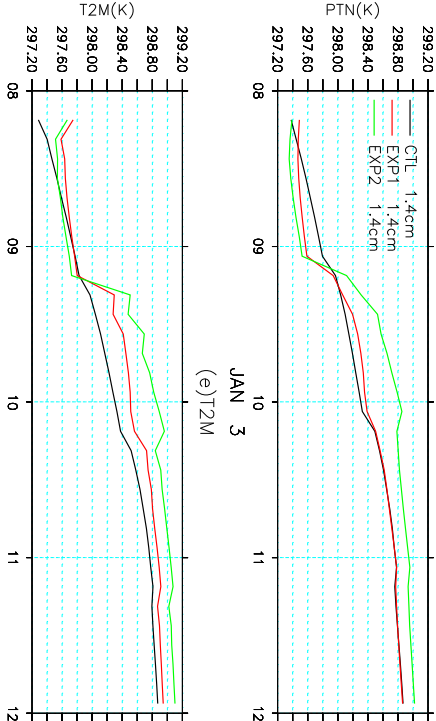
(a)PTN at different depth



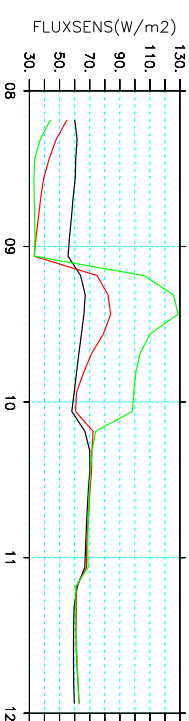
(b)PTN at different depth



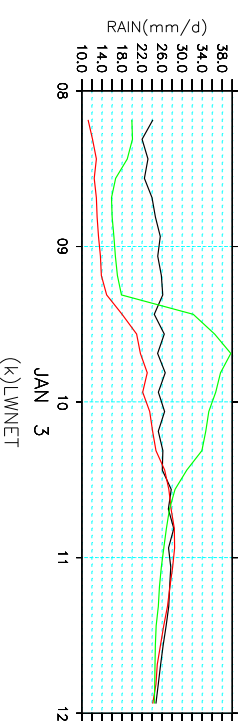
(c)PTN at different depth



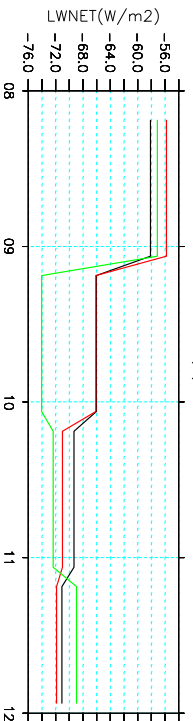
(g)FLUXSENS



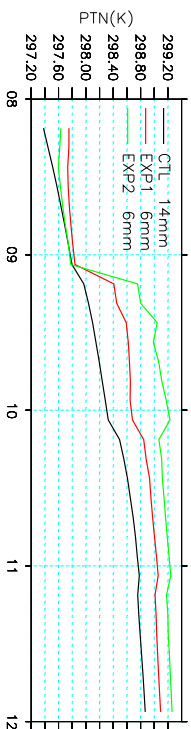
(i)RAIN



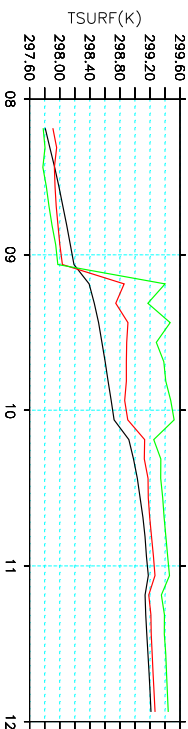
(k)LWNET



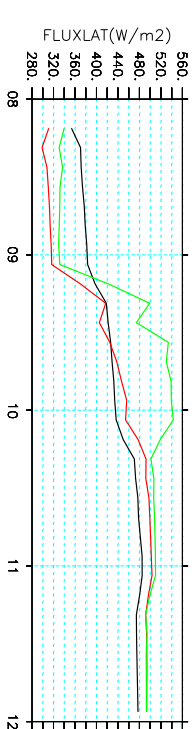
(b)PTN at different depth



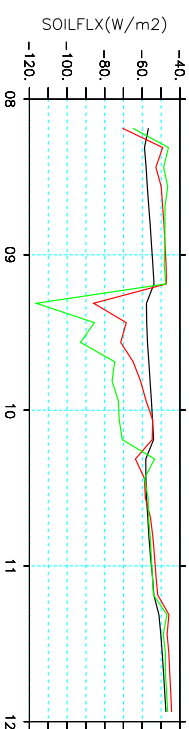
(d)TSURF



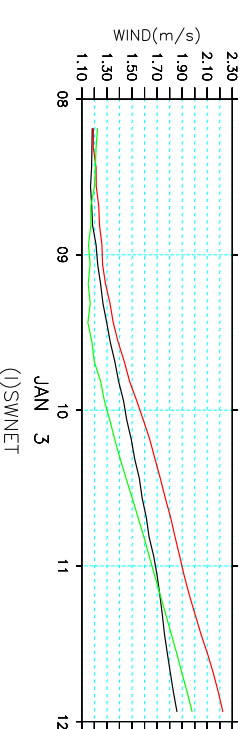
(f)FLUXLAT



(h)SOILFLX



(j)WIND



(l)SWNET

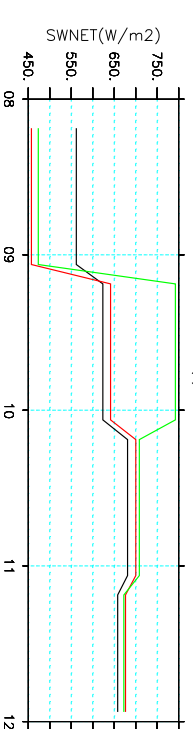


Fig 3. The tests of oscillations in revised soil thermodynamics (a point of humid region:25E,0N). Vertical Profiles: 8H-9H,3 January CTL: standard ORC. 7.5min step; EXP1: Same as CTL BUT with revised thermodynamics; EXP2: Same as EXP1 BUT no convection

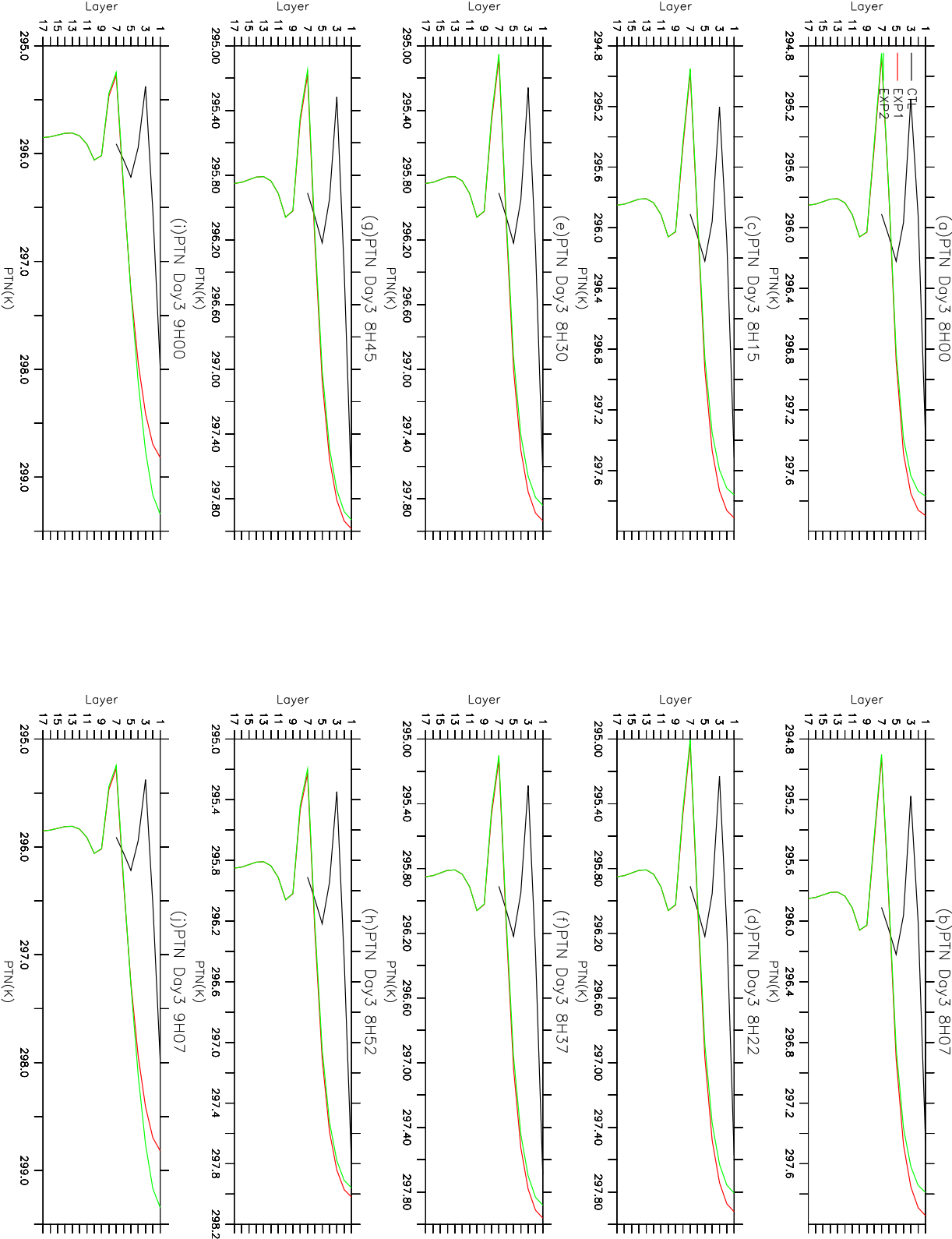


Fig. 4. The testis of oscillations in revised soil thermodynamics (a point of arid region:25E,15N),0H-24H,3 January
 CTL: standard ORC. 7.5min step; EXP1: Same as CTL BUT with revised thermodynamics; EXP2: Same as EXP1 BUT no convection

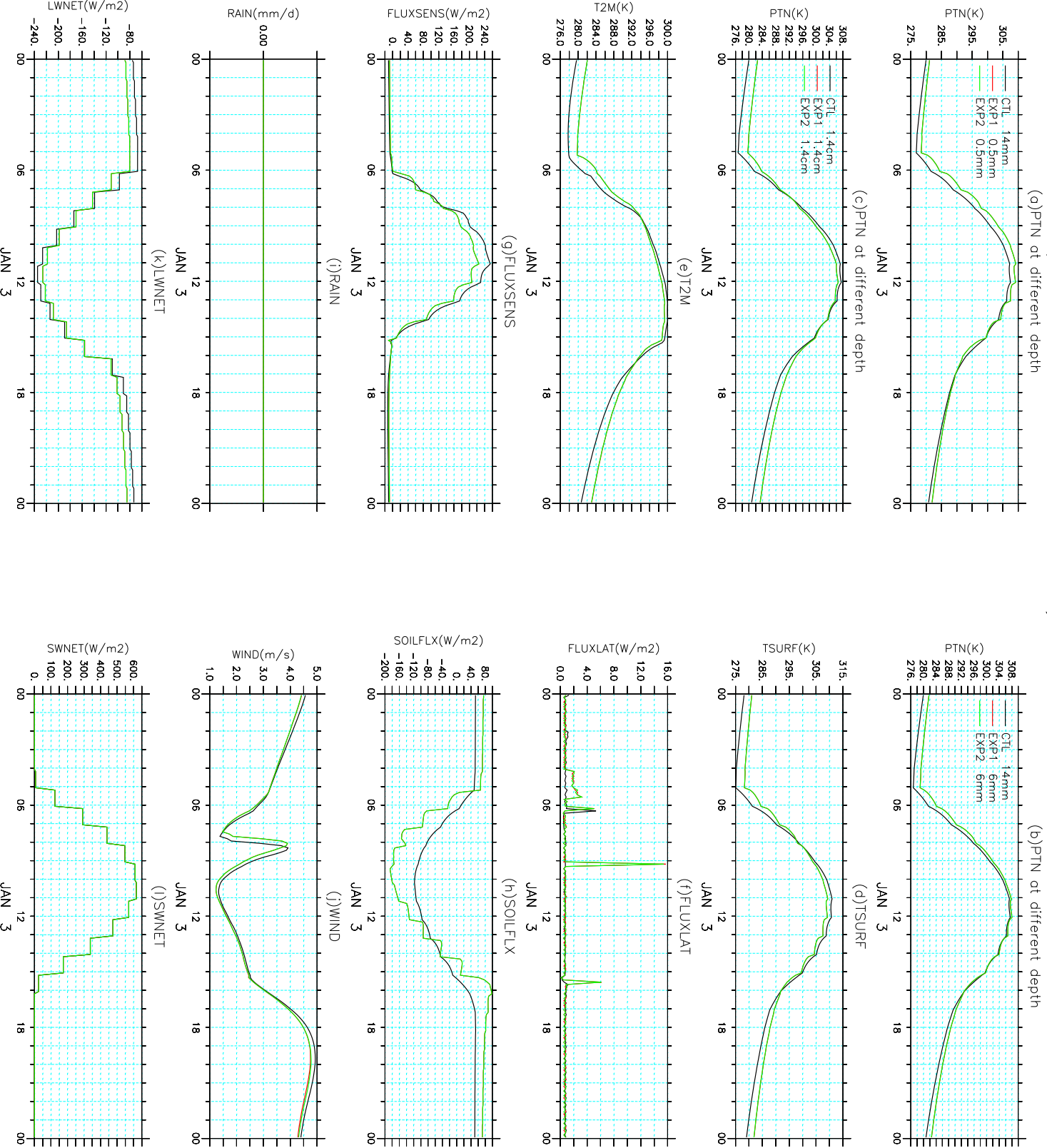


Fig 5. The testis of oscillations in revised soil thermodynamics (a point of arid region:25E,15N) 8H-12H,3 January
 CTL: standard ORC. 7.5min step; EXP1: Same as CTL BUT with revised thermodynamics; EXP2: Same as EXP1 BUT no convection

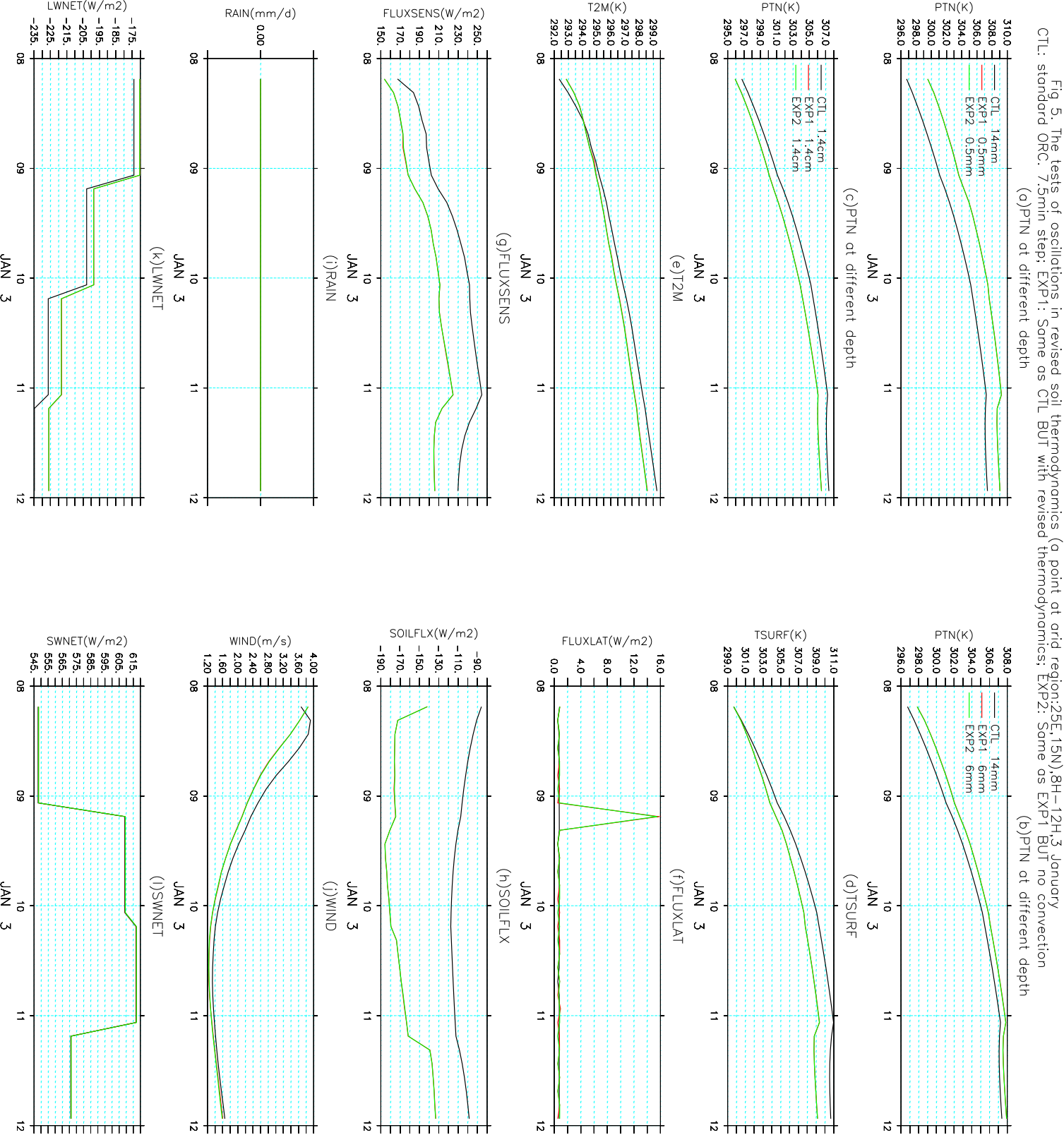


Fig 6. The tests of oscillations in revised soil thermodynamics: (a) point at arid region; 25E, 15N). Vertical Profiles: 8H–9H; 3 January CTL; standard ORC. 7.5min step; EXP1: Same as CTL BUT with revised thermodynamics; EXP2: Same as EXP1 BUT no convection

