



(a) Initial soil moisture Nocturnal 1

Level 1 $sm = sm(20 \text{ UTC})$

Level 2 $sm = sm(20 \text{ UTC})$

Initial ozone

O₃ = O₃ (20 UTC)

(b) Initial soil moisture Diurnal 2

Level 1 $sm = sm(27 \text{ UTC})$

Level 2 $sm = 0.99 \times sm(27 \text{ UTC})$

Initial ozone

O₃ = O₃ (27UTC)