Review of "Large eddy simulations of surface roughness parameter sensitivity to canopystructure characteristics" by Maurer et al.

I. General Comments

The manuscript was revised extensively and improved significantly. I have some minor concerns for the authors to address before the manuscript is published.

II. Specific Comments and Technical Corrections

- 1. Page 13, line 29: Please explain why h = 22 m was used for the classical case.
- 2. Page 14, line 1: For the realistic LES case, $z_0 = 0.094h$ was given on page 14 (line 1). It is inconsistent with $z_0/h = 0.05$ and $z_0 = 0.9$ m given in Table 1 and $z_0 = 0.94$ m given in Table 3.
- 3. Table 1, case (e): The values d/h = 0.67 and d = 14.2 m give h = 21.2 m; whereas the values $z_0/h = 0.05$ and $z_0 = 0.9$ m give h = 18 m. These values of canopy height are inconsistent with each other. Nor are they consistent with h = 27 m given in Table 1.
- 4. Table 1, case (e): Please explain why the result of h_a for this case is significantly lower than the canopy height, whereas the results of h_a for all the other cases in Table 1 are very close to the canopy height. Putting case (e) into Figure 2(c) will change the conclusion on page 17 (line 16) that a linear relationship exists for h_a and gap fraction.

Experiment	LAI	LAD	Height (m)	Gap Fraction	d (m)	Z ₀	ha
(d)	4.2	Natural	27	0%	20.1	2.9	27.1
(d)	4.2	Natural	27	10%	20.4	2.7	27.0
(e)	4.2	Natural	27	5%	14.2	0.9	16.7

5. Table 1, from cases (d) and (e):

It looks that the setup of these simulations are only different in the gap fraction. Please explain why the results of d, z_0 and h_a for the case of a gap fraction of 5% are so different from the other two cases, whereas the results of d, z_0 and h_a for cases of gap fractions 0% and 10% are very similar to each other.