Review comments of :Agarwal et al. (ACPD) Size distributions of dicarboxylic acids, ketoacids, \_-dicarbonyls, sugars, WSOC, OC, EC and inorganic ions in atmospheric particles over Northern Japan: implication for long-range transport of Siberian biomass burning and East Asian polluted aerosols

Page 6715:

Line 5: I assume size bins are diameter, but should you say Dp < 1.1 etc...

Line 8: can say back trajectory?

Line 9: grammar mistake "air masses were arrived" should say "air masses arrived"

Line 23: grammar: "episodes in Siberian region" needs article or plural

Page 6716:

Line 10-11: grammar: "can lead to alter" should say "can alter"

Line 12: grammar: article needed before "Asian continent"

Line 18: grammar "are flown from Asian continent" could change to "transported

from Asia to..."

Page 6717:

Line 9: grammar: article: "on THE molecular level"

Line 11: grammar: article: "especially THE southern area"

Page 6718:

Line 2: grammar: article: "during THE campaign"

Line 16: are aerodynamic cut sizes a diameter?

Line 21: capital letter error: "At"

Line 22:23: "8 to 11" August should be "8-11 August"

Line 24: say "local time" instead of "LT"

Page 6719:

Line 23: what is hel? Is this HCl?

Page 6720:

Line 2: nahco3 should be NaHCO3?

Line 16: 10-day back trajectories are a long time? Is it valid to use such long simulations considering the uncertainties that compound in time? Also, are these isentropic or isobaric? This needs to be stated.

Page 6721:

Line 7: Awkward sentence, verb tense disagreement?

Line 23: "8 August and 8-9" seems redundant

Page 6724:

Line 9: Important hypothesis!

Page 6731:

Line 8-12: Important finding!

Line 13:25: comment – what about sea spray sugars? Russell et al 2010?

Page 6731:

Line 9: grammar: "this sample may be considered"

Page 6733:

Line 25:27: Important finding!

## **OVERALL COMMENTS:**

Relevant findings, analysis seems sound, clear, concise Must consider OC from marine organics, or at least refer to recent articles by O'Dowd et al and Russell et al 2010 regarding a sea spray component of sugars in fine aerosol, and maybe coarse?

Be careful of grammar, especially using articles.