

HLWYM HEmails

From: [REDACTED]
Sent: Saturday, June 25, 2005 11:56 AM
To: Richard Codell; Donald Hooper; Roland Benke; Christopher Grossman; Timothy McCartin
Cc: Andy Campbell
Subject: Re: ashremob calculations

I'll on vacation now, but I'll crudely relay what I remember about the look-up table for the ASHREMOB module. Due to the variable wind field, few realizations (on order of a percent) will have a significant direct deposit (greater than about 1 cm) at the RMEI location. So on average, about a hundred individual realizations may be needed to "see" the first one with a "spike" from a significant deposit at the RMEI location. For confirmation, the a_ash_i column of the remob_lut.dat file (in units of mass per area) divided by the density of the tephra deposit will give us the thicknesses of initial deposits at the RMEI location.

Roland

----- Original message from Richard Codell <RBC@nrc.gov>: -----

> I ran tpa501betac with the ashremob turned on and 400 vectors. I plot the mean
> of the 400 vectors and the first 10 vectors on the attached jpg file. It looks
> good, but I am concerned that these calculations with ashremob don't pick up the
> spiky part of the dose caused by the direct deposition at the RMEI by airborne
> transport. If you run same case without ashremob, it uses the old ashplume model
> with wind directed toward the RMEI, and leads to relatively large, but
> short-duration spikes. For that case we need to use the convolution procedure,
> but not apparently with the ashremob calculations since they are spread out in
> time. My question is "does the new procedure properly take into account the part
> of the! dose due to the direct deposition of airborne ash at the RMEI?"

> Dick

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Subject: Re: ashremob calculations
Sent Date: 6/25/2005 11:56:03 AM
Received Date: 6/25/2005 11:57:23 AM
From: [REDACTED]

Created By: [REDACTED]

Recipients:

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Tracking Status: None
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