

HLWYM HEmails

From: Roland Benke
Sent: Friday, July 01, 2005 2:45 PM
To: 'Razvan Nes'
Subject: FW: ashremob calculations

-----Original Message-----

From: [REDACTED] [mailto:[REDACTED]]
Sent: Saturday, June 25, 2005 10:56 AM
To: Richard Codell; dhooper@cnwra.swri.edu; rbenke@cnwra.swri.edu; 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: FW: ashremob calculations
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From: Roland Benke

Created By: rbenke@cnwra.swri.edu

Recipients:
"Razvan Nes" <rnes@cnwra.swri.edu>
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MESSAGE	2196	7/1/2005 2:44:33 PM

Options
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Reply Requested: No
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