

Patrick Joseph Espy

From: Donal Murtagh <donal.murtagh@chalmers.se>
Sent: 23-Nov-22 08:23
To: Patrick Joseph Espy
Subject: Re: O3 model
Attachments: divphotolysis.py

Ok here you go

The SRB cross-sections need to be used in the other code if that region is to be included -

Donal

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On 21 Nov 2022, at 10:34, Patrick Joseph Espy <patrick.espy@ntnu.no> wrote:

Hi Donal,
Actually, the python codes for the J values would be really helpful. Thanks.

Best regards,
Patrick

From: Donal Murtagh <donal.murtagh@chalmers.se>
Sent: 14-Nov-22 17:36
To: Patrick Joseph Espy <patrick.espy@ntnu.no>
Subject: Re: O3 model

Hi Patrick

Sorry I saw your previous message, marked it unread and then forgot .
If you mean the old MISU-1D model yes I think I can help you with it. I resuscitated a version for Kristell a while ago. There was a bit of work to try and update the old Matlab stuff. Here is a link
<https://chalmersuniversity.box.com/s/7s1uwfumkbhhsjetccd9t4da3hoz8iya>

I am not sure what state it is in.

If you don't need the multiple scattering contributions I may have some python code that could help

Donal

PS otherwise keeping busy with MATS

See you in December

On 14 Nov 2022, at 10:17, Patrick Joseph Espy <patrick.espy@ntnu.no> wrote:

Hi Donal,

Hope retirement is treating you well! At this end they have asked me to stay on for a year or two more to see out grants, students, and postdocs. I was wondering if you have had a chance to look for your old O3 model. We have a student looking at “super” events and the non-linearity of O3 loss with NO2 increases. She has done a night-time model, but wishes to extend it into the daytime. Alternatively, if you have a good source for J values as a function of wavelength, altitude and solar angle, that would be very helpful.

Thanks, and see you in December.

Patrick

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