Fwd: Re: Tim Raeder progress

Charles Smith <Charles.Smith@unh.edu>   Fri, May 31, 2019 at 8:33 AM
To: Kathy Duderstadt <duderstadtk@gmail.com>, Jimmy Raeder <j.raeder@unh.edu>, "Charles W. Smith"
<Charles.Smith@unh.edu>, Anthony A Saikin <aax75@wildcats.unh.edu>

Here is Anthony's code. Let him know if you need more.

Anthony, do you have a new email address? I don't know how long the wildcat address will remain active.

-------- Forwarded Message --------
　　　　Subject: Re: Tim Raeder progress
　Resent-Date: Thu, 30 May 2019 10:32:01 -0400
Resent-From: Charles.Smith@unh.edu
　　　　Date: Thu, 30 May 2019 14:31:47 +0000
　　　　From: Saikin, Anthony A <aax75@wildcats.unh.edu>
　　　　To: Smith, Charles <Charles.Smith@unh.edu>

Here is the polarization analysis routine I had. The inputs are:

bfield = 'name of tplot that has Bx, By, Bz'
f_low = the lowest frequency you want to use
f_high = the highest frequency you want to use
pwr_threshold = minimum power threshold. Any wave power less than this number will be marked as NaN on all wave property plots where that is the case.

Do you need me to give you a sample L vs. MLT plot?

From: Charles.Smith <Charles.Smith@unh.edu>
Sent: Wednesday, May 29, 2019 4:14:01 PM
To: Saikin, Anthony A; Smith, Charles
Subject: Fwd: Tim Raeder progress

Anthony, can you share your codes with us?

Sent via the Samsung GALAXY S® 5, an AT&T 4G LTE smartphone

-------- Original message --------
From: "Duderstadt, Katharine" <Katharine.Duderstadt@unh.edu>
Date: 5/29/19 2:06 PM (GMT-07:00)
To: "Smith, Charles" <Charles.Smith@unh.edu>, "Huang, Chia-Lin" <hcl@guero.sr.unh.edu>
Cc: "Raeder, Timothy" <tr1067@wildcats.unh.edu>
Subject: Tim Raeder progress

Hi Chuck and Chia-Lin,

Tim Raeder and I just met. He is progressing by leaps and bounds.

He already has some FIREBIRD electron polar plots (MLT and L shell) of hi-energy context counts from all campaigns combined. He will continue on with the low-energy context and then filter according to solar wind pressure, AE, and SYM-H following Anthony's examples in Saikin et al. 2016. I'm hoping he'll have a few plots to share at next Wednesday's FIREBIRD telecon to get some advice from the group on where to go next.

Tim has also been exploring how to re-create Anthony's method of applying FFT to EMFISIS data (in Python) to be able to look for EMIC waves... So, the sooner we can get a hold of Anthony's IDL codes and datasets, the better...in order to best make use of Tim's summer.

Chuck, will you be around Monday at 11am? It would be great to stop by your office and get your insight on the RBSP data.

Chia-Lin, do you have time to meet next week when you come to campus? (I seem to recall you are here Tues and Thurs. I'm free before 12:30 on both days).

Thanks,

Kathy

Katharine Duderstadt
Research Scientist
Earth Systems Research Center
The University of New Hampshire
katharine.duderstadt@unh.edu

📄 **polarization_analysis.pro**
6K