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ASTROPHYSICS

HARVARD & SMITHSONIAN

Zhao, Jun-Hui <jzhao@cfa.harvard.edu>

Reminder for an SMA meeting at 4pm, room M-240

5 messages

Zhao, Jun-Hui <jzhao@cfa.harvard.edu>

Thu, Nov 29, 2018 at 3:22 PM To: Attila Kovacs <attila.kovacs@cfa.harvard.edu>, Geoffrey Bower <gbower@asiaa.sinica.edu.tw>, "Berghuis, Jennie" <Jennie.Berghuis@cfa.harvard.edu>, Todd Hunter <thunter@nrao.edu>, sma-hawaii@cfa.harvard.edu, sma-cambridge@cfa.harvard.edu, "rtdc@cfa.harvard.edu" <rtdc@cfa.harvard.edu> Bcc: "Moran, Jim" < jmoran@cfa.harvard.edu>

We will have a meeting to go through the specific issues to pipeline SMA storage data to CASA. Here is the link for the agenda that we may discuss today: https://www.cfa.harvard.edu/~jzhao/SMA-CASA/testmtg2018/ swarm2casaTmtg112918.html

Jun-Hui

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Jun-Hui Zhao Astrophysicist SMA | RG Division Center for Astrophysics | Harvard & Smithsonian Office: (617) 496 7895 60 Garden Street | MS 78 | Cambridge, MA 02138

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Attila Kovacs <attila.kovacs@cfa.harvard.edu> To: "Zhao, Jun-Hui" <jzhao@cfa.harvard.edu>

Hi Jun-Hui,

I'll be a few minutes late. Sorry!

-- A.

Zhao, Jun-Hui <jzhao@cfa.harvard.edu> Thu, Nov 29, 2018 at 5:41 PM To: Attila Kovacs <attila.kovacs@cfa.harvard.edu>, Garrett Keating <garrett.keating@cfa.harvard.edu>

Karto and Attila, Here is a more recent one (this month) 181113 06:00:07 that seems to have the spectral issue.

Thu, Nov 29, 2018 at 4:04 PM

2018-11-15 18:21:03 INFO listobs::ms::summary+13-Nov-2018/06:01:03.9 - 06:02:02.0 1 0 3C84 140 [0] [3.87] 2018-11-15 18:21:03 INFO listobs::ms::summary+ 06:01:03.9 - 06:02:02.0 1 1 0319+415 2100 [1,2,3,4,5,6,7,8,9,10,11,12,13,14,15] [3.87, 3.87, 3.87, 3.87, 3.87, 3.87, 3.87, 3.87, 3.87, 3.87, 3.87, 3.87, 3.87, 3.87, 3.87] 2018-11-15 18:21:03 INFO listobs::ms::summary+ 06:02:22.6 - 06:05:16.9 2 1 11648 [0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15] [3.87, 3. 0319+415 3.87, 3.87, 3.87, 3.87, 3.87, 3.87, 3.87, 3.87, 3.87] 2018-11-15 18:21:03 INFO listobs::ms::summary+ 06:05:32.4 - 07:29:21.6 3 0 18192 [0] [3.87] 3C84 2018-11-15 18:21:03 INFO listobs::ms::summary+ 06:05:32.4 - 07:29:21.6 3 1 0319+415 272880 [1,2,3,4,5,6,7,8,9,10,11,12,13,14,15] [3.87, 3.87, 3.87, 3.87, 3.87, 3.87, 3.87, 3.87, 3.87, 3.87, 3.87, 3.87, 3.87, 3.87, 3.87] 2018-11-15 18:21:03 INFO listobs::ms::summary+ 07:30:04.2 - 07:49:21.9 4 2 67200 [0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15] [3.87, 3. Uranus 3.87, 3.87, 3.87, 3.87, 3.87, 3.87, 3.87, 3.87, 3.87]

I noticed that the issue occurred when short integration time involves. This one is **3.87 sec**. The integration time is **5.16 sec** for the one 180131_02:22:07 that we discussed during the meeting. This might give you a hint to figure out what happens to the data. Please let me know if you have an answer.

Jun-Hui

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Garrett Keating <garrett.keating@cfa.harvard.edu> To: "Zhao, Jun-Hui" <jzhao@cfa.harvard.edu> Cc: Attila Kovacs <attila.kovacs@cfa.harvard.edu> Thu, Nov 29, 2018 at 7:50 PM

Hi Jun-Hui,

I did take a quick look at the original track in question, and I did not see the same labeling issue that you did on my first pass through the data. I did however see that the times at which you see these glitches do appear to correspond to when pointing is running — that data is marked with a special flag in the file bl_read. I suspect that if you throw out the pointing data, it may remove the problems that you are seeing.

Attached is my code that actually reads in the binaries — it's actually a python script, that repackages the data into structures that are easy to read in MATLAB (the MATLAB code itself actually does some more advanced processing that's not necessarily relevant here).

-Karto

On Nov 29, 2018, at 5:41 PM, Zhao, Jun-Hui <jzhao@cfa.harvard.edu> wrote:

Karto and Attila,

Here is a more recent one (this month) 181113_06:00:07 that seems to have the spectral issue.

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-- A.

Jun-Hui Zhao Astrophysicist SMA | RG Division **Center for Astrophysics | Harvard & Smithsonian** Office: (617) 496 7895 60 Garden Street | MS 78 | Cambridge, MA 02138

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🗋 sma2matlab.py

36K

Zhao, Jun-Hui <jzhao@cfa.harvard.edu> To: Garrett Keating <garrett.keating@cfa.harvard.edu>

Thu, Nov 29, 2018 at 7:58 PM

Thanks, Karto. Jun-Hui

Garrett Keating <garrett.keating@cfa.harvard.edu>于 2018年11月29日星期四 下午7:50写道:

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