1

$1,2$

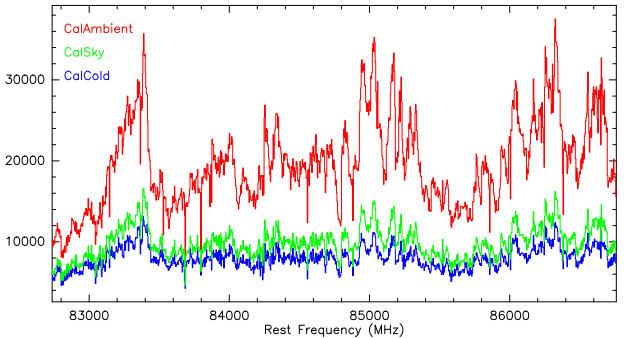
3

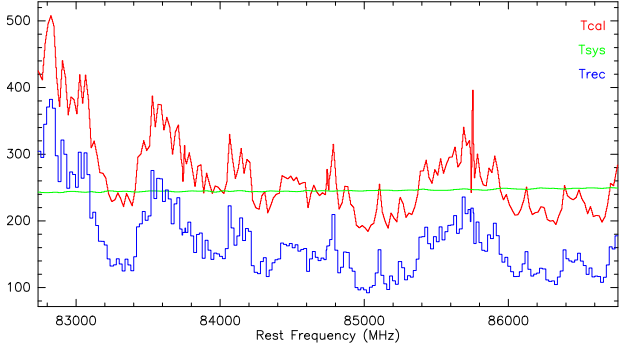
th

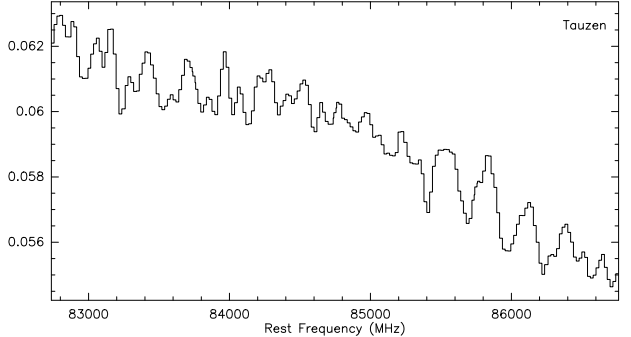

GILDAS
SOFTWARE

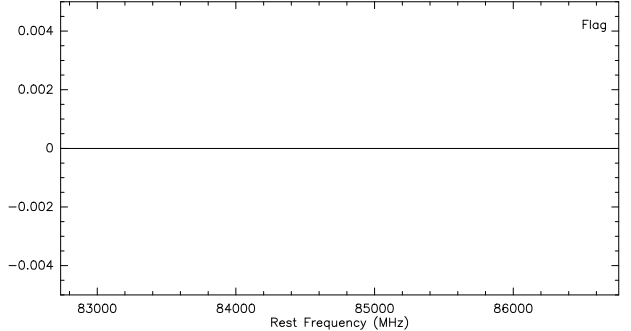
N

1;1 CALSKY NULL 30ME0HLI-4M1 0:30-SEP-2010 R:27-JUL-2016
RA: 17:57:46.47 DEC: -23:51:50.7 Eq 2000.0 Rad. 0.0° Offs: -600.0 +0.0
Unknown tau: 0.058 Tsys: 254. Time: 6.32E-02min El: 13.1
N: 1006 I0: 441.500 V0: 0.000 Dv: -14.19 LSR
F0: 84500.0000 Df: 4.000 Fi: 97000.7437
Bef: 0.95 Fef: 0.95 Gim: 5.0119E-02
H2O : 5.308 Pamb: 727.5 Tamb: 280.6 Tchop: 296.6 Tcold: 31.3
Tatm: 61.4 Tau: 0.058 Tatm i: 63.3 Tau i: 0.059
Scan: 200 Subscan: 1




Tcal
Tsys
Trec
500
400
300
200
100
83000
84000
85000
86000
Rest Frequency (MHz)


Tauzen
0.062
0.06
0.058
0.056
83000
84000
85000
86000
Rest Frequency (MHz)


Flag
0.004
0.002
0
−0.002
−0.004
83000
84000
85000
86000
Rest Frequency (MHz)

i

$$W(i) = \frac{t \times |\delta f|}{(T_{sys}(i) \times e^{A\tau(i)})^2}$$

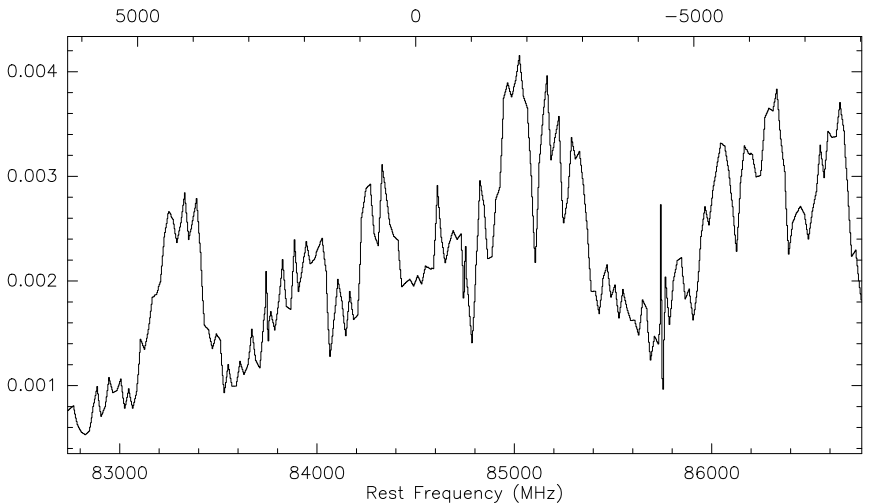
t

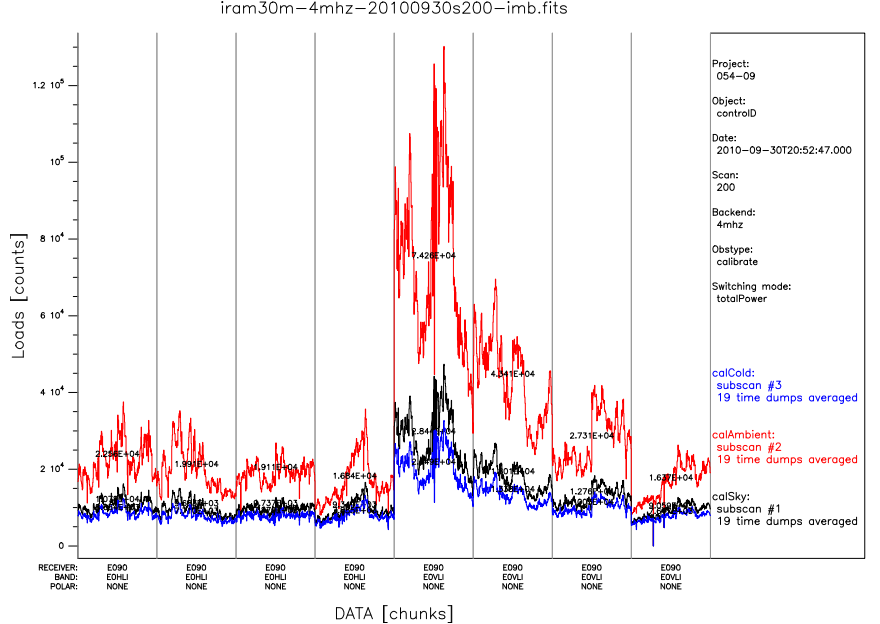
δf

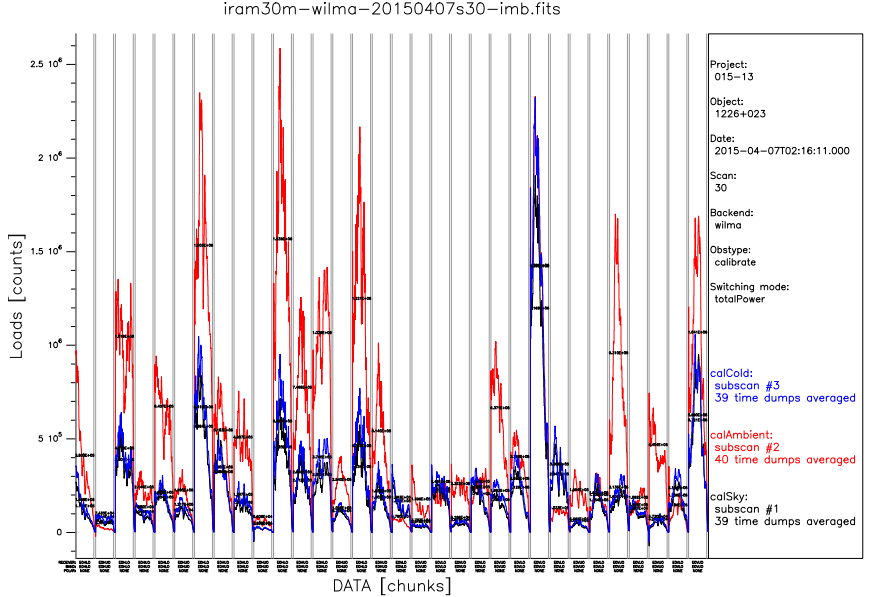


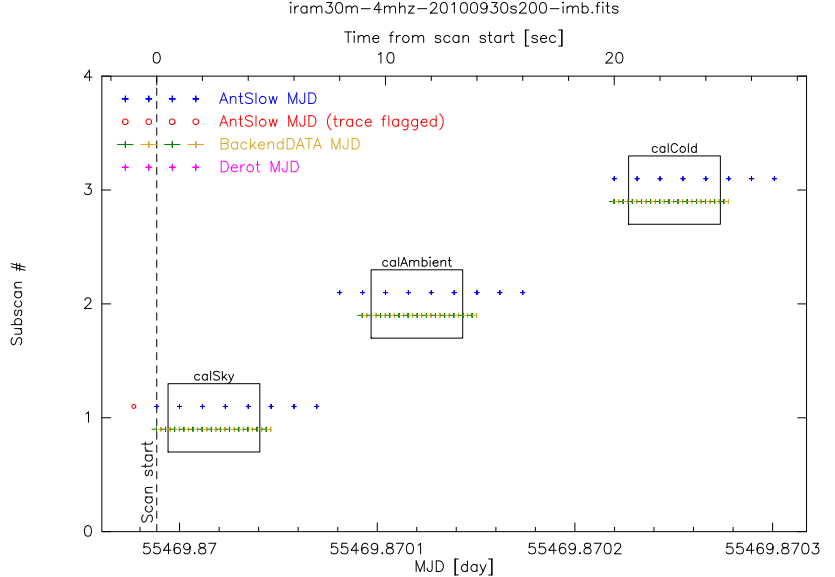
$T_{sys}(i)$

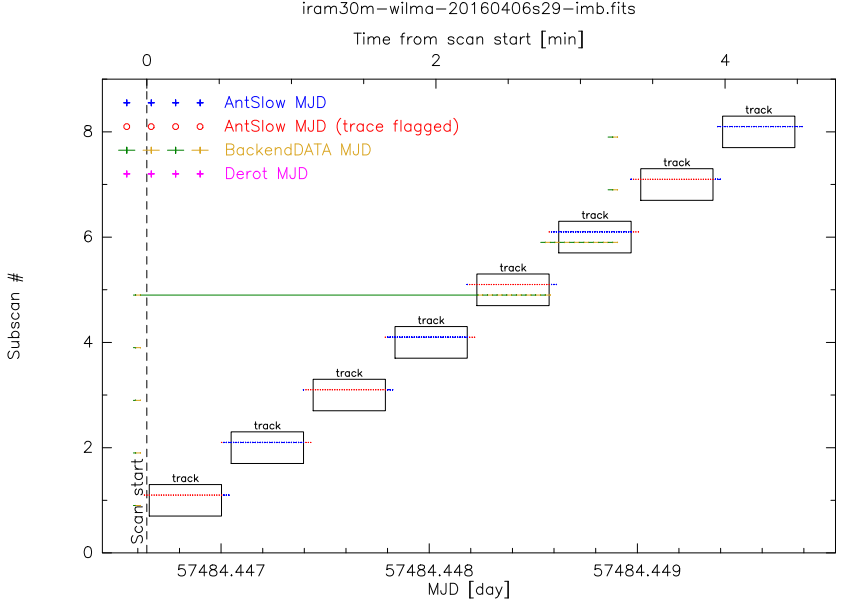
3;1 CONTROLD NULL 30MEOHLI-4M1 0:30-SEP-2010 R:27-JUL-2016
RA: 17:57:46.47 DEC: -23:51:50.7 Eq 2000.0 Rad. 0.0° Offs: +0.0 +0.0
Unknown tau: 0.058 Tsys: 330. Time: 0.99 min EI: 13.0
N: 1006 I0: 441.500 V0: 0.000 Dv: -14.19 LSR
F0: 84500.0000 Df: 4.000 Fi: 97000.7442
Scan: 201 Subscan: 2

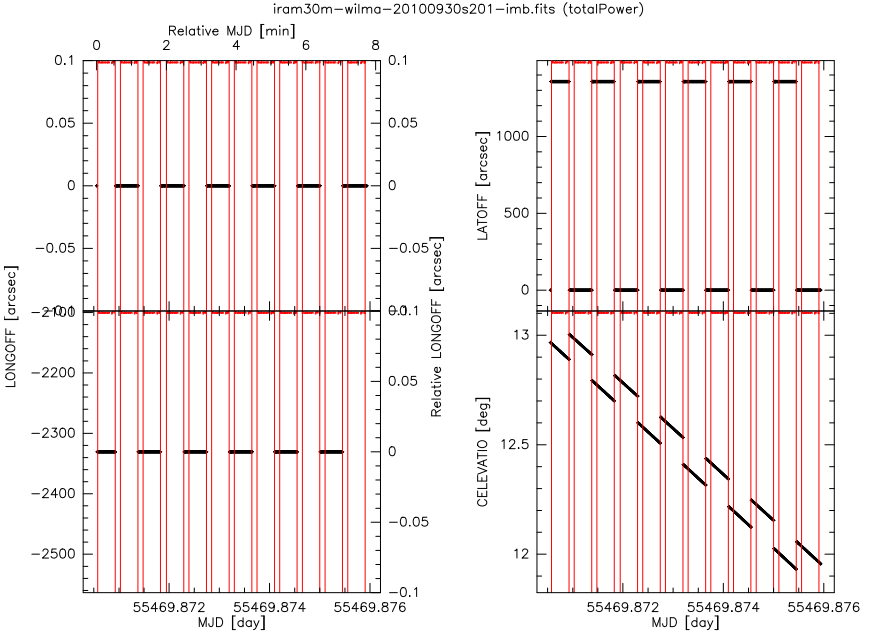



iram30m-4mhz-20100930s200-imb.fits
Loads [counts]
DATA [chunks]
Project:
054-09
Object:
controlD
Date:
2010-09-30T20:52:47.000
Scan:
200
Backend:
4mhz
Obstype:
calibrate
Switching mode:
totalPower
calCold:
subscan #3
19 time dumps averaged
calAmbient:
subscan #2
19 time dumps averaged
calSky:
subscan #1
19 time dumps averaged
RECEIVER:
BAND:
POLAR:
E090 E0HLI NONE
E090 E0VLI NONE

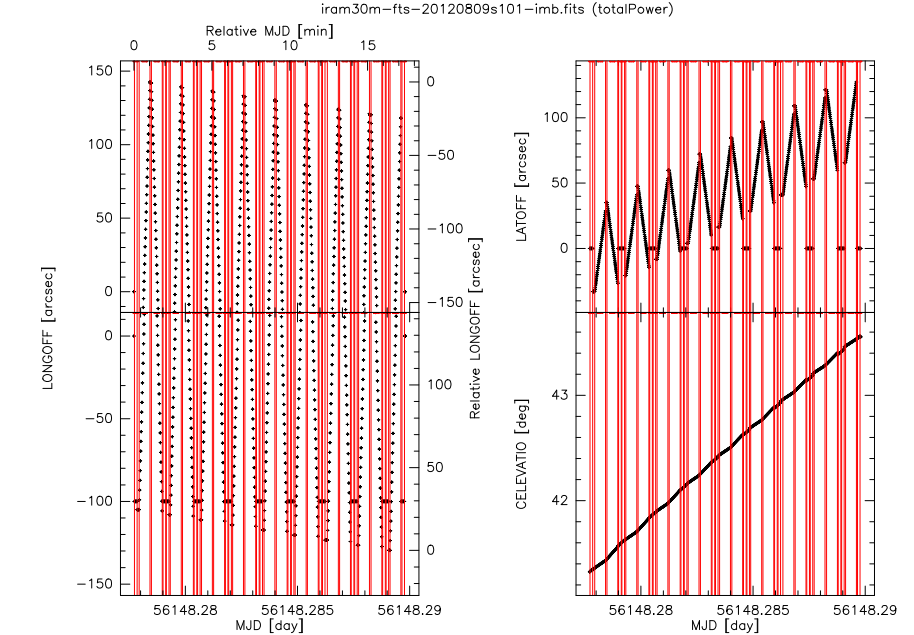

iram30m-wilma-20150407s30-imb.fits
Loads [counts]
DATA [chunks]
2.5 10^6
2 10^6
1.5 10^6
10^6
5 10^5
0
Project:
015-13
Object:
1226+023
Date:
2015-04-07T02:16:11.000
Scan:
30
Backend:
wilma
Obstype:
calibrate
Switching mode:
totalPower
calCold:
subscan #3
39 time dumps averaged
calAmbient:
subscan #2
40 time dumps averaged
calSky:
subscan #1
39 time dumps averaged

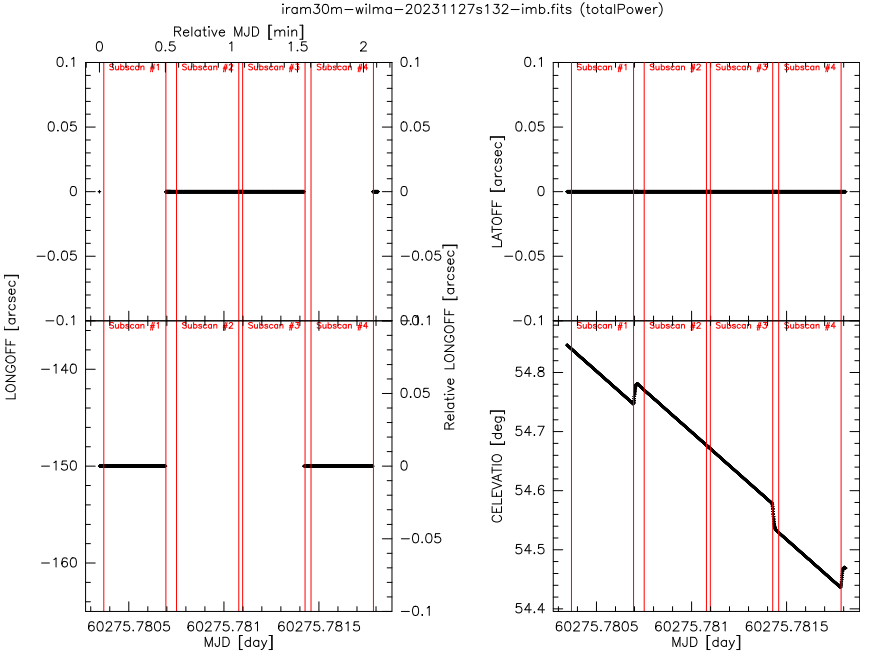

iram30m-4mhz-20100930s200-imb.fits
Time from scan start [sec]
0
10
20
AntSlow MJD
AntSlow MJD (trace flagged)
BackendDATA MJD
Derot MJD
calCold
calAmbient
calSky
Scan start
Subscan #
0
1
2
3
4
55469.87
55469.8701
55469.8702
55469.8703
MJD [day]


iram30m-wilma-20160406s29-imb.fits
Time from scan start [min]
0
2
4
AntSlow MJD
AntSlow MJD (trace flagged)
BackendDATA MJD
Derot MJD
track
Subscan #
Scan start
0
2
4
6
8
57484.447
57484.448
57484.449
MJD [day]


iram30m-wilma-20100930s201-imb.fits (totalPower)
Relative MJD [min]
0
2
4
6
8
0.1
0.05
0
−0.05
−0.1
LONGOFF [arcsec]
−2100
−2200
−2300
−2400
−2500
Relative LONGOFF [arcsec]
55469.872
55469.874
55469.876
MJD [day]
LATOFF [arcsec]
1000
500
0
CELEVATIO [deg]
13
12.5
12
55469.872
55469.874
55469.876
MJD [day]

$(-100, 0)$


iram30m-fts-20120809s101-imb.fits (totalPower)
Relative MJD [min]
0
5
10
15
LONGOFF [arcsec]
Relative LONGOFF [arcsec]
150
100
50
0
−50
−100
−150
MJD [day]
56148.28
56148.285
56148.29
LATOFF [arcsec]
CELEVATIO [deg]
43
42


iram30m-wilma-20231127s132-imb.fits (totalPower)
Relative MJD [min]
0
0.5
1
1.5
2
Subscan #1
Subscan #2
Subscan #3
Subscan #4
LONGOFF [arcsec]
Relative LONGOFF [arcsec]
LATOFF [arcsec]
CELEVATIO [deg]
MJD [day]
60275.7805
60275.781
60275.7815