

Inflight Log for Project: 09_0030 PI: Clark Christopher

German Receiver for Astronomy at Terahertz frequencies

This Project was observed on 2 flights

1 2022-04-09_GR_F853

turn	04:29 – 04:29 42109	IC342 raw-cli-commands	38 kft
leg 5	04:33 – 06:22 42110 – 42158	IC342 singlepoint_chopped inpar_singlepoint_chopped_IC342	38– 39 kft
04:33	42111	Altitude Difference during scan: 157.0 ft. Final altitude at end of scan 38096.0 ft	
04:36		SOFIA Cabin Temp 3: 20.9 C	
04:37		We still see an offset! Though smaller, about 1 arcsec. Double checked that sofia_telPlateScaleSource is HOUSEKEEPING_XML and tel_plate_scale stays constant at 3.98	
04:41	42113	Altitude Difference during scan: 101.0 ft. Final altitude at end of scan 38055.0 ft	
04:45	42115	Altitude Difference during scan: 140.0 ft. Final altitude at end of scan 38077.0 ft	
04:46		SOFIA Cabin Temp 3: 20.6 C	
04:46		LO LFAV presents problems. Data require attention due to higher noise.	
04:53		script starts: singlepoint_chopped.sh -f inpar_singlepoint_chopped_IC342	
04:56		SOFIA Cabin Temp 3: 20.5 C	
04:56		From TO: Satellite going though FPI.	
05:11	42127	Altitude Difference during scan: 744.0 ft. Final altitude at end of scan 38742.0 ft	
05:14	42128	Altitude Difference during scan: 173.0 ft. Final altitude at end of scan 38963.0 ft	
05:15	42129	Altitude Difference during scan: 111.0 ft. Final altitude at end of scan 39059.0 ft	
05:16		SOFIA Cabin Temp 3: 20.6 C	
05:23		script starts: singlepoint_chopped.sh -f inpar_singlepoint_chopped_IC342	
05:24	42133	Altitude Difference during scan: 137.0 ft. Final altitude at end of scan 39049.0 ft	
05:26		SOFIA Cabin Temp 3: 20.6 C	
05:28	42135	Altitude Difference during scan: 117.0 ft. Final altitude at end of scan 39011.0 ft	
05:36		SOFIA Cabin Temp 3: 20.5 C	
05:40		script starts: singlepoint_chopped.sh -f inpar_singlepoint_chopped_IC342	
06:06		SOFIA Cabin Temp 3: 20.2 C	

2 2022-04-23_GR_F858

leg 8	05:10 – 05:10 43001	IC342 raw-cli-commands	39 kft
leg 8	05:11 – 05:16 43002 – 43004	IC342 singlepoint_chopped inpar_singlepoint_chopped_IC342_-x	39 kft
	05:14	SOFIA Cabin Temp 3: 18.2 C	
leg 8	05:31 – 06:20 43005 – 43026	IC342 singlepoint_chopped inpar_singlepoint_chopped_IC342	39– 40 kft
	05:33	Lot of turbulence during this leg. Some observations could be off.	
	05:34	SOFIA Cabin Temp 3: 17.8 C	
	05:34	for scan 43035, the first positions might be off due to otf position error.	
	05:43	HFA and Pixel LFAH.PX04 suffer most of the turbulence.	
	05:44	SOFIA Cabin Temp 3: 18.0 C	
	05:46 43012	Altitude Difference during scan: 1018.0 ft. Final altitude at end of scan 40034.0 ft	
	05:54	SOFIA Cabin Temp 3: 18.0 C	
	05:58	script starts: singlepoint_chopped.sh -f inpar_singlepoint_chopped_IC342	
	06:00	Improvement in quality starting from scan 43010	
	06:14	SOFIA Cabin Temp 3: 18.0 C	
	06:15	script starts: singlepoint_chopped.sh -f inpar_singlepoint_chopped_IC342	