

Antenna Variable	Location	Meaning
UTC	UL	Universal time; just make sure that it's changing, which indicates that the antenna computer is running
AAZ	UM	Actual azimuth angle
RAZ	UM	Requested azimuth angle; should be the same as AAZ during observations and converge toward AAZ when slewing
AZA	UR	Actual zenith angle
RZA	UR	Requested zenith angle; should be the same as AZA during observations and converge toward RZA when slewing
RAO & DECO	ML	RA and Dec offsets; these should be zero unless you specify them in your macro
AZO & ZAO	ML	Az and ZA offsets; these should be zero unless you specify them in your macro
FAZO* & FZAO*	ML	Fixed Az and ZA offsets; we use these for our constant pointing offsets, they should be -124.6 & +63.8, respectively
POINTING*	ML	Pointing model; it should be BOLOCAM, if it is not, type INSTRUMENT BOLOCAM in the UIP
SOURCE**	MR	This should be the source that you want to observe or are slewing towards
EPOCH**	UR	The epoch for your coordinates
RAEP** & DECEP**	UR	RA and Dec of source in the specified epoch
RA** & DEC**	UR	RA and Dec of source precessed to the current date
HA	UR	The hour angle of the source
P ANGLE	UR	The parallactic angle
TRACKING** or SCANNING**	UR	These indicate whether the telescope is tracking the source or scanning it; we are integrating when it is scanning, & it tracks between subscans; if you are not slewing & the telescope has not been SCANNING for a while, you are probably not observing
AIRMASS**	ML	The airmass at your current ZA; if it is greater than 2, you are observing very low
XPOS & YPOS	LL	Position of secondary in mm
THETA	ML	Should be +90.00 degrees
FOCUS	ML	Changes with ZA based on telescope model
Y OFFSET*	ML	The constant Bolocam Y focus offset; this should be -0.35, it is not, type INSTRUMENT BOLOCAM in the UIP
FOC OFFSET*	ML	The constant Bolocam Z focus offset; this should always be -0.24, it is not, type INSTRUMENT BOLOCAM in the UIP
MAP RAO** & MAP DECO**	MR	Current RA & Dec offsets, these change during the scan as the telescope moves; they will change one at a time if you doing an equatorial scan

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MAP AZO & MAP ZAO	MR	Current AZ & ZA offsets, these change during an alt/az scan, one at a time as the telescope moves through the scan
FOC MODE	MR	Should be STEALTHY
BSW**	MR	NOT CHOPPING should be displayed when the telescope is not chopping, 90.0" 1.000Hz should be displayed when the telescope is chopping; if the telescope is chopping, but you do not want it to for the current observation, type SECONDARY /STOP in the UIP
TEMP	LR	Temperature in degrees C; if this has recently dropped to near zero and the humidity is >60%, close the dome
HUMID	LR	Percentage relative humidity
TAU225	LR	Zenith tau at 225 GHz or 350 um zenith tau scaled to 225 GHz
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* -> This variable is important and should be checked approximately every hour or every time you make a major change.		
** -> This variable is important and changes with scan type or with time. It should be checked every time you start an observation.		