

Potential Predecessors

<i>Calibration Measurements</i>	Amplitude Flux	Phase	Bandpass	Polarization	Pointing	Antenna Location	Antenna and Electronic Delay	Optics	Primary Beam
Amplitude Flux		NRP. Phase calibration required for absolute amplitude calibration.	NOP. Derive frequency dependence of atmospheric attenuation.		NOP. Need to well-pointed for better SNR.		NOP. Needed for SNR.	NOP. Focus Scan at band 3 may amplify errors in amplitude at higher freq.	NRP. Need to know PB response for proper absolute flux measurement.
Phase			NRP. Correct for phase response of BP.		NOP. Need to well-pointed for better SNR.	NRP. Part of data analysis.	NOP. Needed for SNR.	NOP. Path length changes due to thermal deformation of optics components or support	
Bandpass		NRP. Phase calibration required for final BP calibration.			NOP. Need to well-pointed for better SNR.		NOP. Needed for SNR.	NOP. Multiple reflections in the optics cause a ripple pattern in frequency domain	
Polarization		NRP. Phase calibration required for polarization calibration.			NOP. Need to well-pointed for better SNR.		NOP. Needed for SNR.	NOP. Offset Cassegrain optics with misalignment causes variable polarization character	NOP. Need to know PB structure for proper polarization calibration.
Pointing		NRP. Phase calibration required for pointing analysis.	NOP. Calibration of relative baseband phases to improve SNR.			NOP. Need good fringe tracking for good SNR.	NOP. Needed for SNR.	NOP. Optics misalignment brings beam squint between Rxs.	
Antenna Location		NRP. Phase calibration required for antenna position analysis.	NOP. Calibration of relative baseband phases to improve SNR.		NOP. Need to well-pointed for better SNR.		NOP. Needed for SNR.	NOP. Illumination offset caused by optics misalignment results in error in antenna location.	
Antenna and Electronic Delay									
Optics			NOP. Calibration of relative baseband phases to improve SNR.		NOP. Need to well-pointed for better SNR.		NOP. Needed for SNR.		NOP. Unwanted systematic sidelobe pattern arises in subreflector misalignment
Primary Beam		NRP. Phase calibration required for final PB measurement.	NRP. Correct for frequency-dependent amplitude response.		NOP. Need to well-pointed for better SNR.	NOP. Will use interferometric holography for PB measurement.	NOP. Needed for SNR.	NOP. Optics must be aligned for proper PB determination.	

NOP = Necessary Observational Predecessor

NRP = Necessary Reduction Predecessor