

NGAO Wavefront Error Budget Observing Scenarios

Extract from WFE Budget Tool v1.06

		Global Parameters	Observing Scenarios												
Worksheet	Parameter		Io	Vesta	Exo Jup NGS	Mira Vars	Orion IMF	Gal Cen	Exo Jup LGS	T Tauri	Debris Disks	Quasar Host Galaxies	Z = 1 Galaxies	KBO	Extended Groth Strip
Telescope	Name														
Atm	Dec		0	0			-5	-28						0	52
	Zenith angle		Dec	Dec	30	30	Dec	Dec	10	20	10	10	5	Dec	Dec
HO Flux	Guide star spectral type		NGS	NGS	NGS	NGS	NGS	LGS	LGS	LGS	LGS	LGS	LGS	LGS	LGS
	Guide star brightness		5.0	8.0	8.0	10.0	13.0								
	NGS color		G	G	M	M	K								
	Intrinsic HOWFS GS diameter		1.1	0.3	0.0	0.0	0.0	LGS	LGS	LGS	LGS	LGS	LGS	LGS	LGS
	LGS asterism radius		0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.83
TT Flux	Guide star brightness		5.0	8.0	8.0	10.0	8.0	12.2	13.0	15.0	16.0	19.0	19.0	19.0	19.0
	NGS color		G	G	M	M	K	IRS7	M	M	M	A0	M	M	M
	Intrinsic TT GS diameter		1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aniso	HO GS to target (or Science FoV)		0.5	0.1	1.0	2.0	17.6	7.1	1.0	1.0	1.0	1.0	2.0	1.0	1.0
	TT GS to target		0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0	0.0	0.0	48.7	48.7	48.7
Cal Sky	Instrument		TBD	TBD	TBD	NIRC2	NIRC2	NIRC2	TBD	NIRC2	TBD	TBD	TBD	NIRC2	NIRC2
Coverage	Star density model	Spagna													
	Required sky coverage fraction		NGS	NGS	NGS	NGS	NGS	LGS	LGS	LGS	LGS	LGS	5%	10%	30%
	Galactic latitude (b in deg)		NGS	NGS	NGS	NGS	NGS	LGS	LGS	LGS	LGS	LGS	30	30	30
Science Filter	Science Filter		R	R	H	H	K	K	H	K	R	H	I	H	K