

(Lupie)

WFC3 IR Filters

Rev-aug-06

**FINAL LIST
[Requirements]**

"line in air" shift 500 km/se

SOC IR	Science	Filter	lamO	lamc	
Comm.	Equivalent		microns	microns	
Priority	#			central	
grp prio	prio				
I	1	Broad H and Red Grism Ref *	F160W	1.56500	1.56500
I	2	Broad J	F125W	1.25000	1.25000
I	3	"Red" Low Resolution Grism	G141	1.41000	
II	6	Water/CH_4 continuum	F127M	1.27000	1.27000
II	7	Water/CH_4 line	F139M	1.38500	1.38500
III	8	"Blue" High Resolution Grating	G102	1.02500	
III	9	"Blue" Filter, Blue Grism Ref *	F098M	0.98500	0.98500
III	10	[FeII]	F164N	1.64355	1.64629
III	11	[FeII] continuum	F167N	1.66770	1.66770
IV	12	H_2O and NH_3	F153M	1.53000	1.53000
IV	13	Paschen Beta	F128N	1.28181	1.28395
IV	14	Paschen Beta continuum	F130N	1.30060	1.30060
V	15	[FeII]	F126N	1.25702	1.25912
V	16	Paschen Beta (redshifted)	F132N	1.32000	1.32000
ADDED		Wide "z"	F095W	1.04500	1.04500
ADDED		Wide Band spanning J-H boundary	F140W	1.40000	1.40000
REMOVED		REMOVED			
II	4	Paschen Alpha	F187N	1.87510	1.87823
II	5	Paschen Alpha continuum	F184N	1.83500	1.83500
NEW		Wide V (UVIS Redundancy)	F065W	0.65000	0.65000

"line in vac" shift 500 km/sec

Vac	Vac			AIR	AIR	AIR
lam0 microns	lamc microns	FWHM microns	%Tran	Edge -50% pk microns	Edge +50% pk microns	del lam/ lam
1.565427	1.565427	0.330000	98	1.40000	1.73000	0.21086
1.250341	1.250341	0.300000	98	1.10000	1.40000	0.24000
		0.600000		1.10000	1.70000	0.42553
1.270346	1.270346	0.070000	98	1.23500	1.30500	0.05512
1.385378	1.385378	0.070000	98	1.35000	1.42000	0.05054
		0.250000		0.90000	1.15000	0.24390
0.985269	0.985269	0.170000	98	0.90000	1.07000	0.17259
1.643997	1.646739	0.016463	95	1.63806	1.65452	0.01002
1.668155	1.668155	0.016677	95	1.65936	1.67604	0.01000
1.530417	1.530417	0.070000	95	1.49500	1.56500	0.04575
1.282157	1.284296	0.012839	95	1.27753	1.29037	0.01002
1.300955	1.300955	0.013006	95	1.29410	1.30710	0.01000
1.257363	1.259460	0.012591	95	1.25282	1.26541	0.01002
1.320360	1.320360	0.013200	95	1.31340	1.32660	0.01000
1.045285	1.045285	0.310000	95	0.89000	1.20000	0.29665
1.400382	1.400382	0.400000	95	1.20000	1.60000	0.28571
1.875612	1.878740	0.018800				
1.835500	1.835500	0.018400				
0.65018	0.65018	0.30000				