GBT Receiver Status

Instrument	Frequency Range	Upgrades	
PF300	0.29 - 0.395		
PF450	0.385 - 0.520		
PF600	0.510 - 0.690		
PF800	0.680 - 0.920		
PF2	0.91 - 1.23	UWBR: 0.7 - 4.0	
L	1.15 - 1.73	New Design Tsys < 14 K	
S	1.73 - 2.60	1.73 - 4.00	
С	3.95 - 8.00		
X	8.00 - 11.60	8.0 - 12.0	
Ku	12.0 - 15.4	Close the Gap with KFPA?	
KFPA - 7pix	18.0 - 27.5		
Ka - 2 pic	26.0 - 39.5	Combine Ka + Q	
Q - 2 pix	38.2 - 49.8	Combine Ka + Q	
W - 2 pix	67.0 - 93.3		
ARGUS - 16 pix	80.0 - 115.3		
3mm		2-pix, 2-pol 85 - 116 GHz	
MUSTANG - 223 pix	75 - 105		
FLAG - 7 pix phased-array receiver	1.38 - 1.5	Engineering Demo	

Improvements to Bandwidth

Table 3: High Frequency GBT Receiver BW

Receiver	Frequency	Current Max.	Potential Max.	Factor
	Range (GHz)	BW (GHz)	BW (GHz)	Increase
7-pixel KFPA	18.0-27.5	1.8	9.5	5.28
Ka-Band MM1	26.0-31.0	4.0	13.5	3.375
Ka-Band MM2	30.5-37.0	4.0		
Ka-Band MM3	36.0-39.5	4.0		
Q-Band	39.2–49.8	4.0	10.6	2.65
W-Band MM1	67.0-74.0	6.0	26.3	4.38-6.575
W-Band MM2	73.0-80.0	4.0		
W-Band MM3	79.0–86.0	4.0		
W-Band MM4	85.0-92.0	4.0		
16-pixel Argus	75.0–115.3	1.5	8	5.3