

## VEGAS PULSAR MODE PRIORITIES

Version: 16 January 2015

Incoherent Modes					
Channels \ BW	100	200	400	800	1500
32	C	C	C	B	B
64	C	C	C	B	A(7)
128	C	C	C	B	B
256	C	C	C	B	B
512	C	C	C	B	A(6)
1024	B	B	C	B	A(6)
2048	B	A(5)	C	A(4)	A(6)
4096	B	B	C	B	B
8192	B	B	C	B	B
Fast4k	A(3)	B	C	B	B
Fast8k	D(1)	B	C	B	B
Raw Time Domain	B	B	C	B	B

60 modes

Coherent Modes					
Channels \ BW	100	200	400	800	1500
32	B	B	C	B	D(2)
64	B	B	C	B	D(2)
128	B	A (2)	C	B	D(2)
256	B	B	C	B	D(2)
512	B	B	C	A (1)	D(2)
1024	C	C	C	C	D(2)
2048	C	C	C	C	C
4096	C	C	C	C	C
8192	C	C	C	C	C

45 modes

### Notes:

A = High Priority (8)

B = Medium Priority (43)

C = Low Priority (47)

D = Special case (7)

Numbers after letters are not internal rankings, they refer to the notes below.

A(1): Nanogav, double pulsar, globular clusters

A(2): Nanograde, double pulsar

A(3): GB North Celestial Cap Survey

A(4): Generic L/S band observing

A(5): Generic 820 MHz observing

A(6): New VEGAS capability

A(7): Magnetars at high frequency; Crab giant pulses

D(1): GBNCC might switch to this mode if it were available

D(2): Would become the standard nanograv mode with an ultra-wide-band receiver