IAA-00-IAA.9.1.06

GALACTIC PLANE SETI CANDIDATES – RESULTS FROM THE SOUTHERN SERENDIP SPECTROMETER

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Southern SERENDIP has been operating since March 1997 in 'piggyback' mode on the 64m Parkes Radio telescope in NSW Australia. It is attached to two beams of the 13 beam HI multibeam receiver operating at 1420 MHz. Initially the SERENDIP spectrometer operated in a 2 x 4.2 million channel mode, and since October 1999 it has operated in a 2 x 29.4 million channel mode with a channel spacing of 0.6 Hz. The resultant bandwidth of 15 MHz is located on the red-shift side of the 1420 HI line. This paper presents a summary of results of an ETI candidate signal search along the southern galactic plane from a recent galactic plane Parkes pulsar survey between latitudes +5 and -5 degrees and between longitudes 25 and 220 degrees. This part of the sky has recently yielded over 300 new pulsar discoveries with the HI multibeam receiver.