

DSES Pulsar Observations

September 5, 2020

5 New Pulsars Detected!

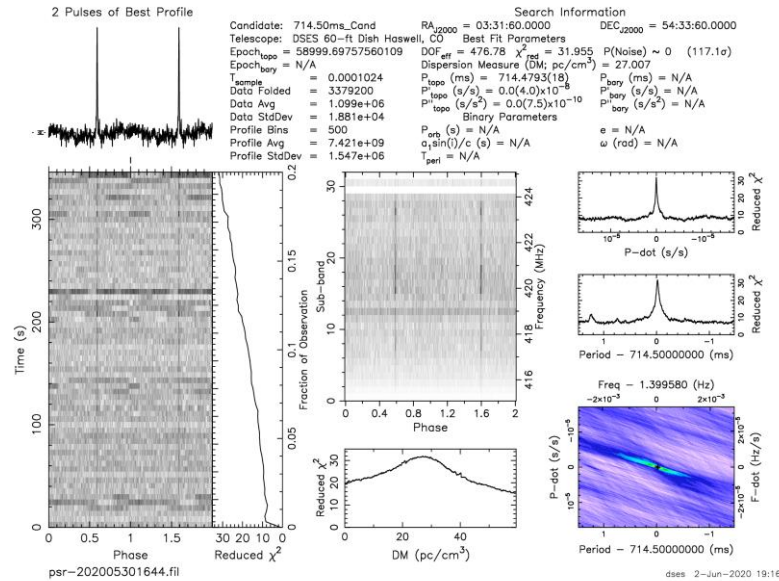
DSES.Science

Pulsar Observation Success!

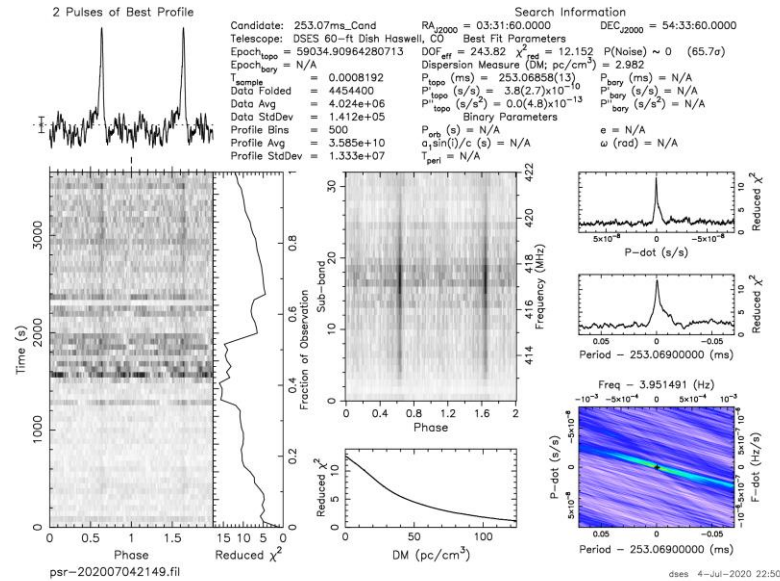
- 5 new pulsars were observed on September 5, 2020 with the DSES 60-ft dish
- The observing team was: Rich Russel, Ray Uberecken, and Glenn Davis
- The success is attributed to the calibration of the antenna pointing system and the new automatic tracking system developed by the System 1 team.
- The total pulsar count is now 8!

More detail to come at the next science meeting

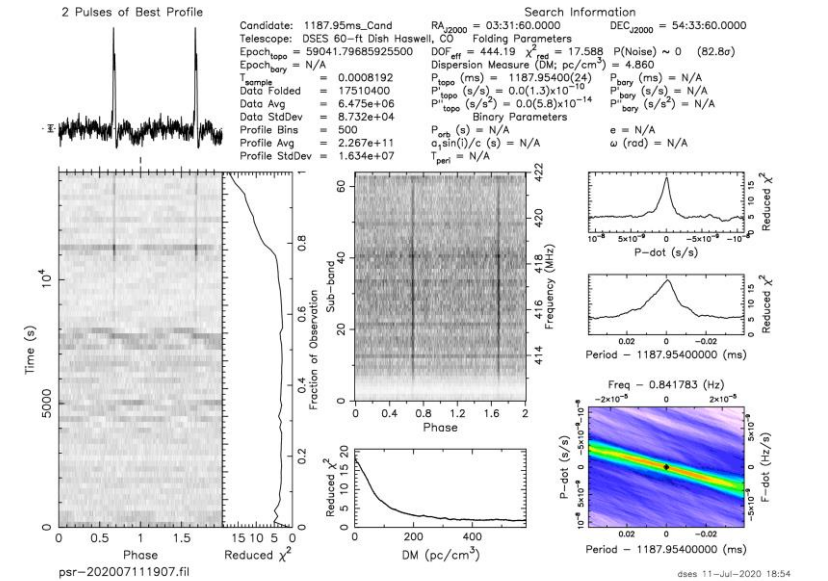
Previous DSES Pulsars Observed



B0329+54



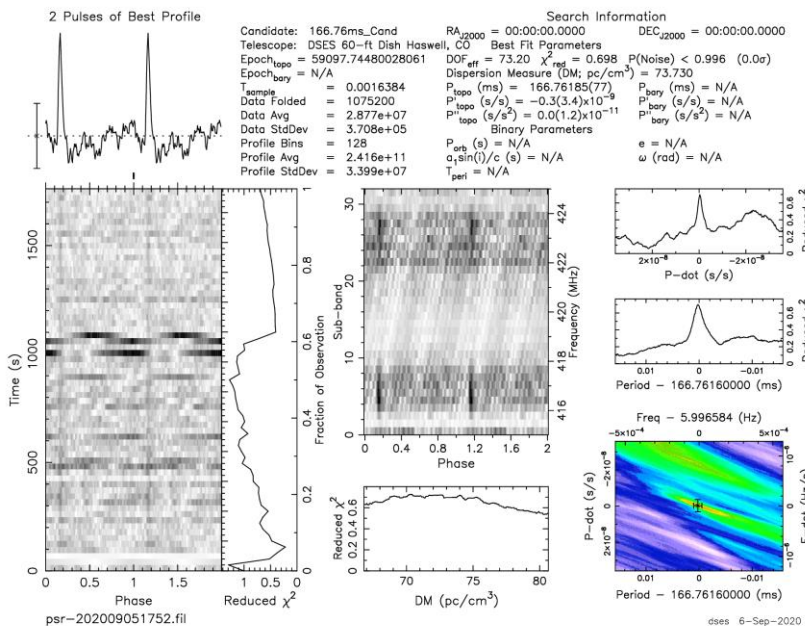
B0950+8



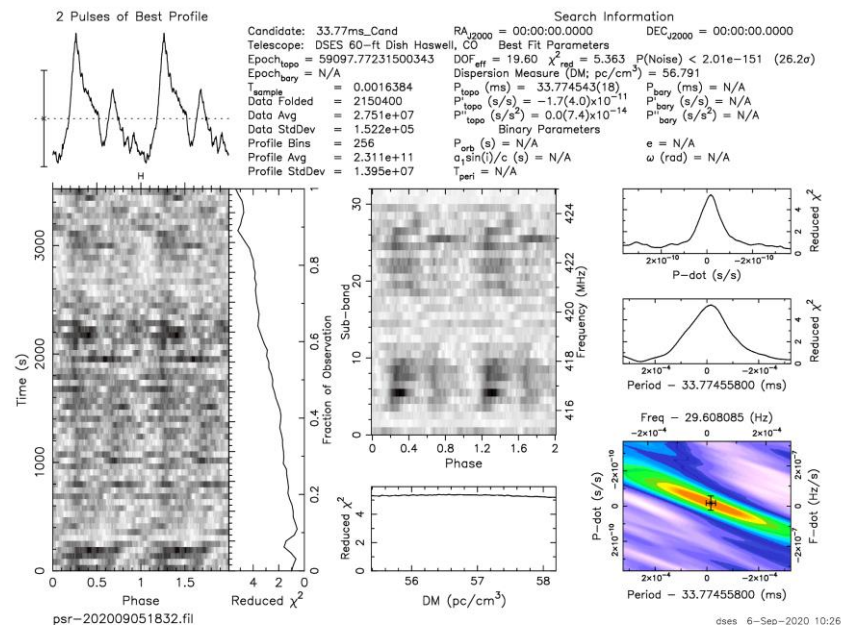
B1133+16

DSES Pulsars Observed on 9-5-20

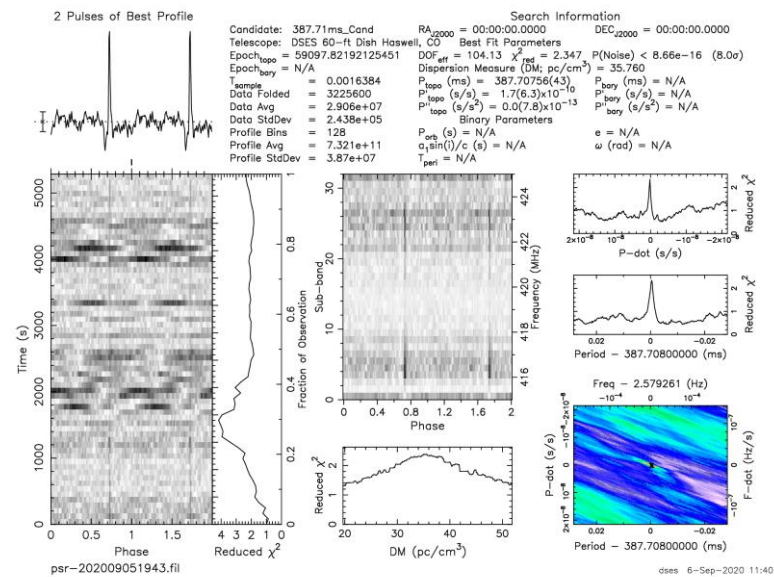
Observers: Rich Russel, Ray Uberecken, Glenn Davis



B0740-28



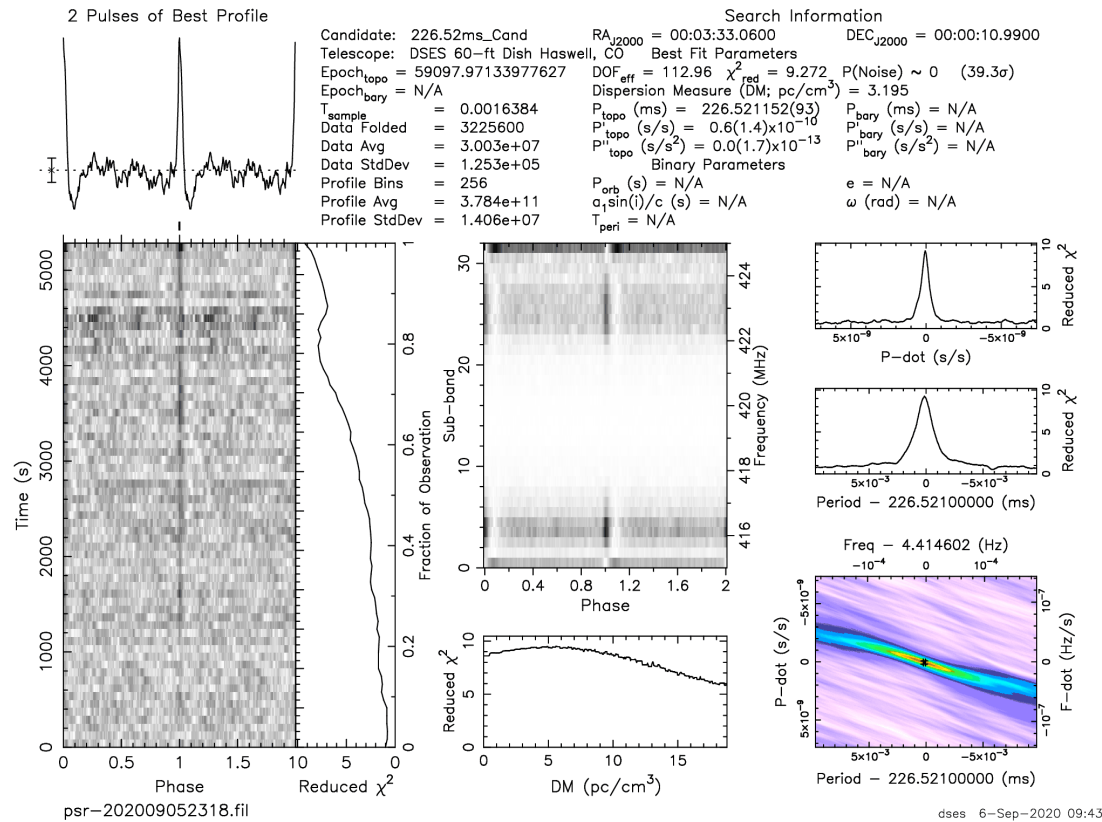
B0531+22



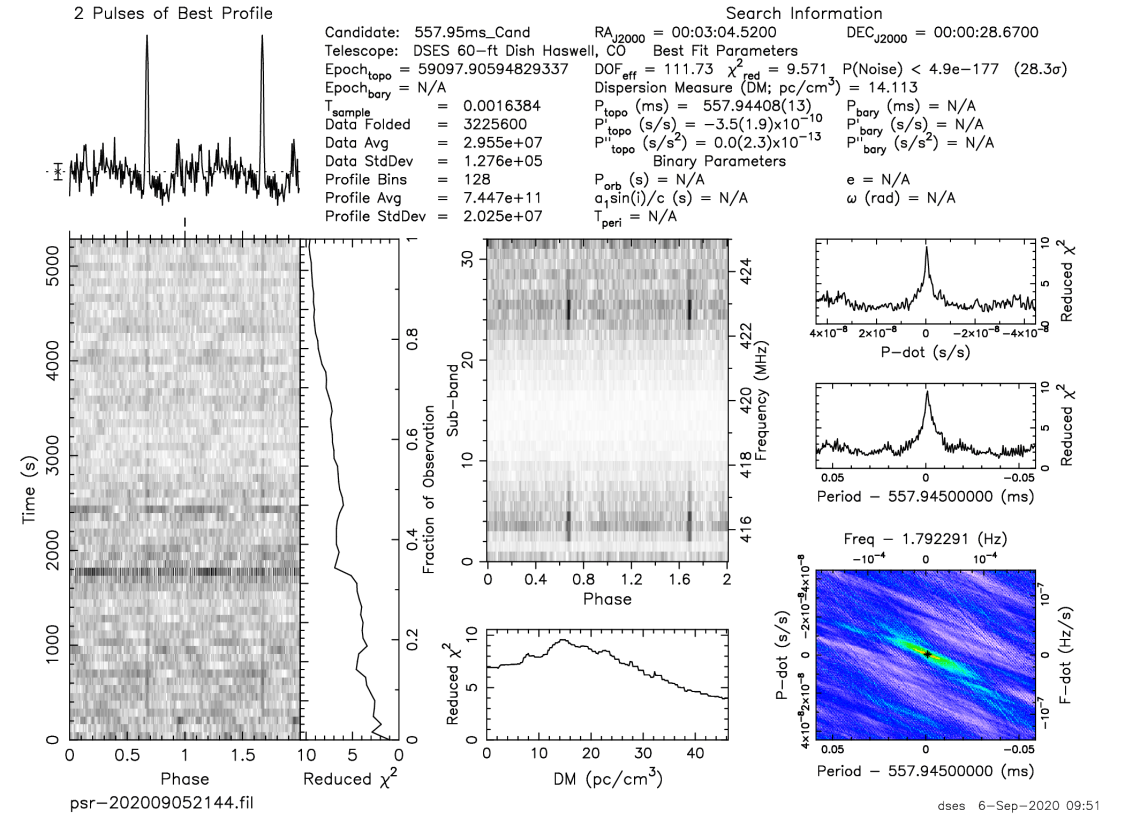
B1642-03

DSES Pulsars Observed on 9-5-20

Observers: Rich Russel, Ray Uberecken, Glenn Davis



B1929+10



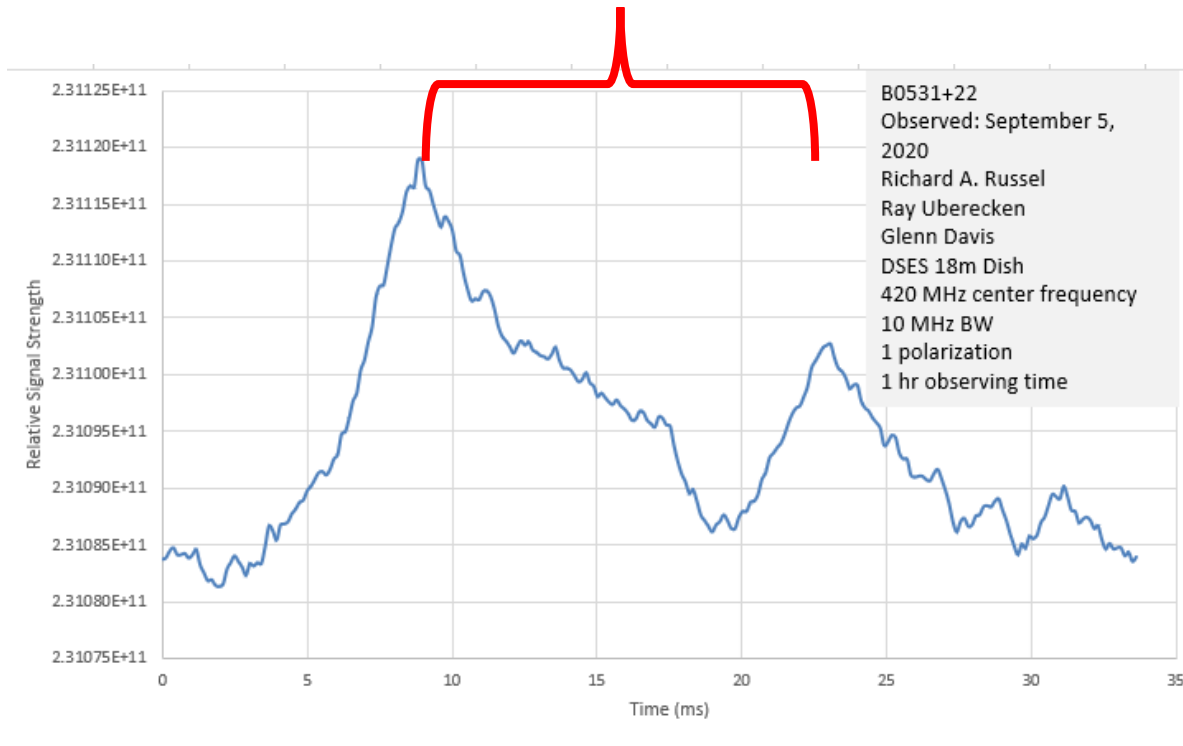
B2016+28

(J0534+2200) B0531+22 Observation Compared to EPN Database

Time Between pulses analysis

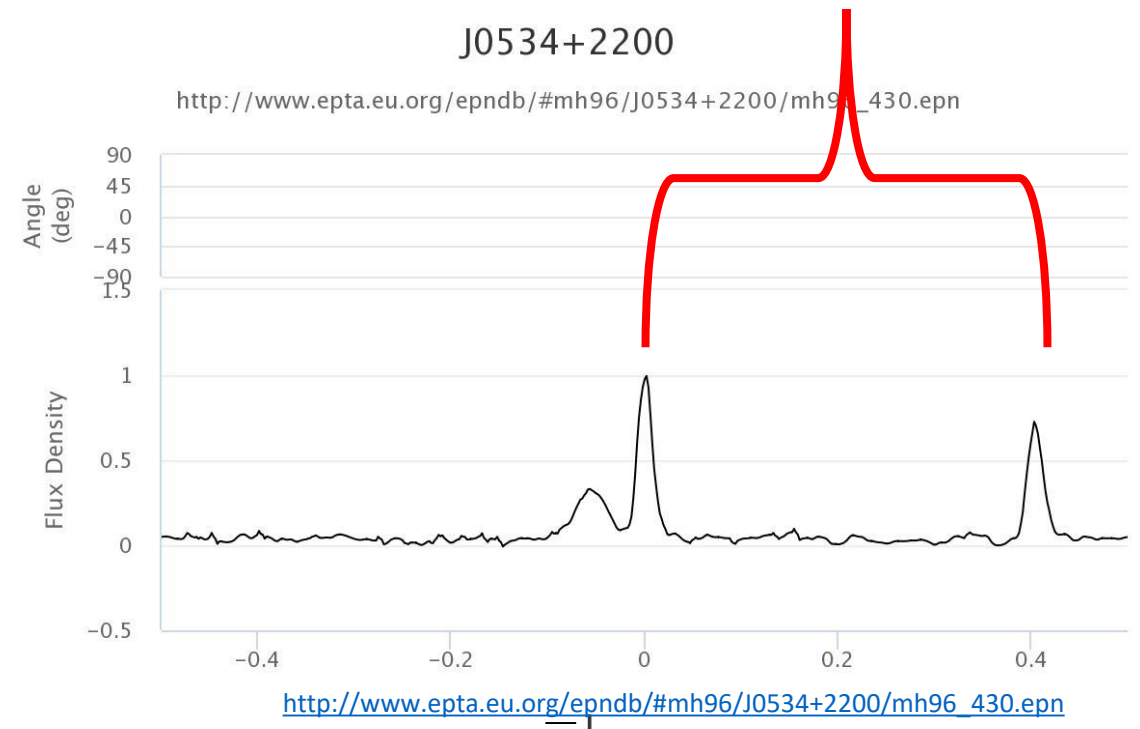
Result is that the observation is 0.4619 ms difference (close correlation)

Time between pulses = 14.1166 ms



DSES Observation

Time between pulses = 13.6547 ms



http://www.epta.eu.org/epndb/#mh96/J0534+2200/mh96_430.epn

Highcharts.com