This report summarizes the midband spectral index estimation done using the days 2018_147 to 2018_222. The initial processing of the midband data was done with my processing pipeline.

Two fitting equations were used:

\[ T_v = T_{75} \left( \frac{\nu}{\nu_o} \right)^{beta} \]

\[ T_v = T_{75} \left( \frac{\nu}{\nu_o} \right)^{beta + gamma(log(\nu_o))} \]

**Case1:**
The data was binned into 1024 bins in frequency (60-160 MHz, i.e, 98KHz) and 72 GHA bins (20min) resolution.
Case2:
The data was binned into 125 bins in frequency (60-160 MHz, i.e, 400KHz) and 72 GHA bins (20min) resolution