KLM Bubbler updates

KEK updates

4 pis collecting return side data

KLM Bubbler updates

- Return side BB0,BB7,BF0,BF7 connected
 - In addition to BB3,BB4,BF3,BF4
- Power supply voltage adjusted
 - 5.06±0.01 V to 5.10±0.01 V
- Two readout boards connected to same power supply(pin based)
 - One that was already connected still shows undervoltage ~once every two minute
 - Other one doesn't

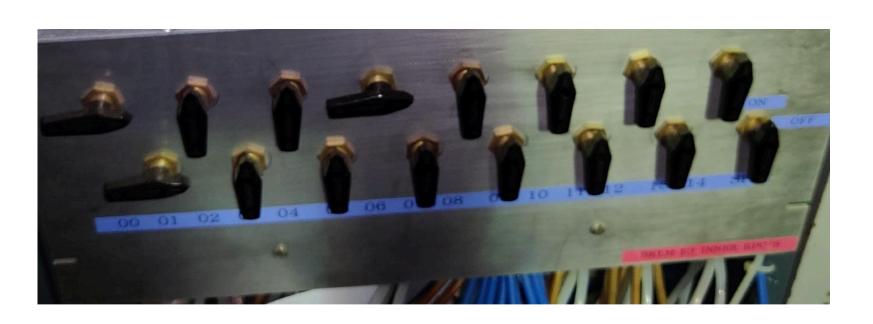
Inventory of disconnected channels

KLM Bubbler updates

- Some bubblers(mostly 0,1,15) have no pipes connected
 - Not consistent, so taken inventory
- Some supply panels(mostly 0,1,15) have switches turned off
 - Not consistent, so taken inventory
- To make sure we see zero flowrates in readout of those channels



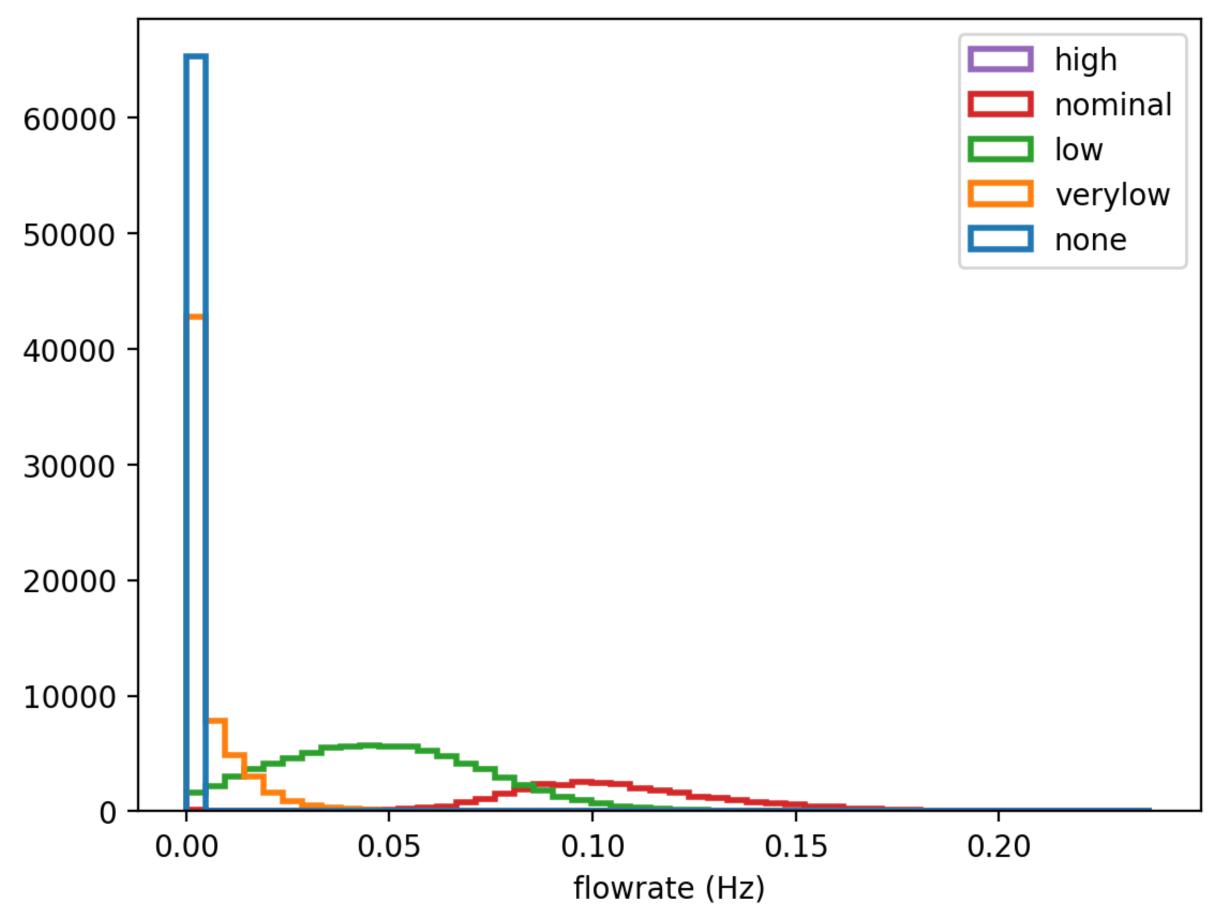




Flowrate histogram

KLM Bubbler updates

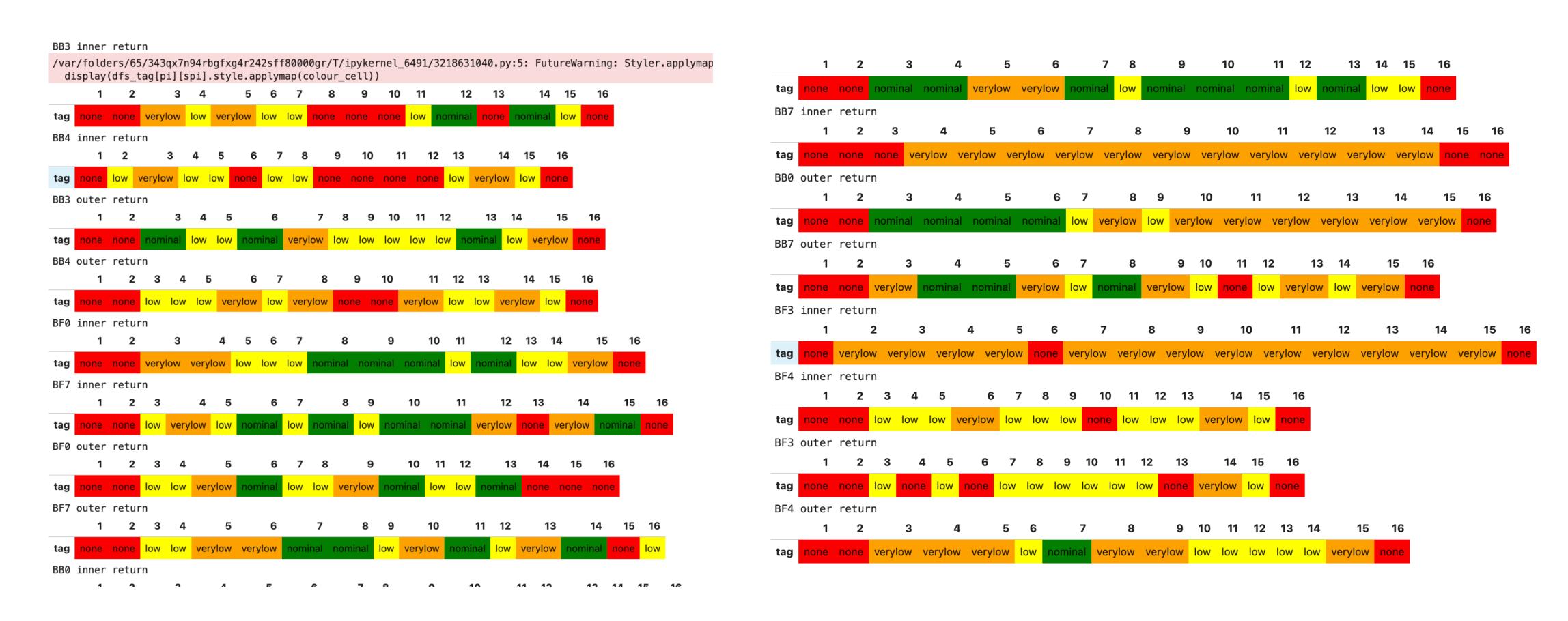
- Label channels based on average flowrate and plot histogram
 - None: no flow
 - Verylow: < ~1 bubble per minute
 - Low: < ~5 bubbles/min
 - Nominal: < ~12 bubbles/min
 - High: more than any of them
 - (no channels recorded to have so)



Channel labelling by avg. flow rate

KLM Bubbler updates

Michele, Noah, Sayan

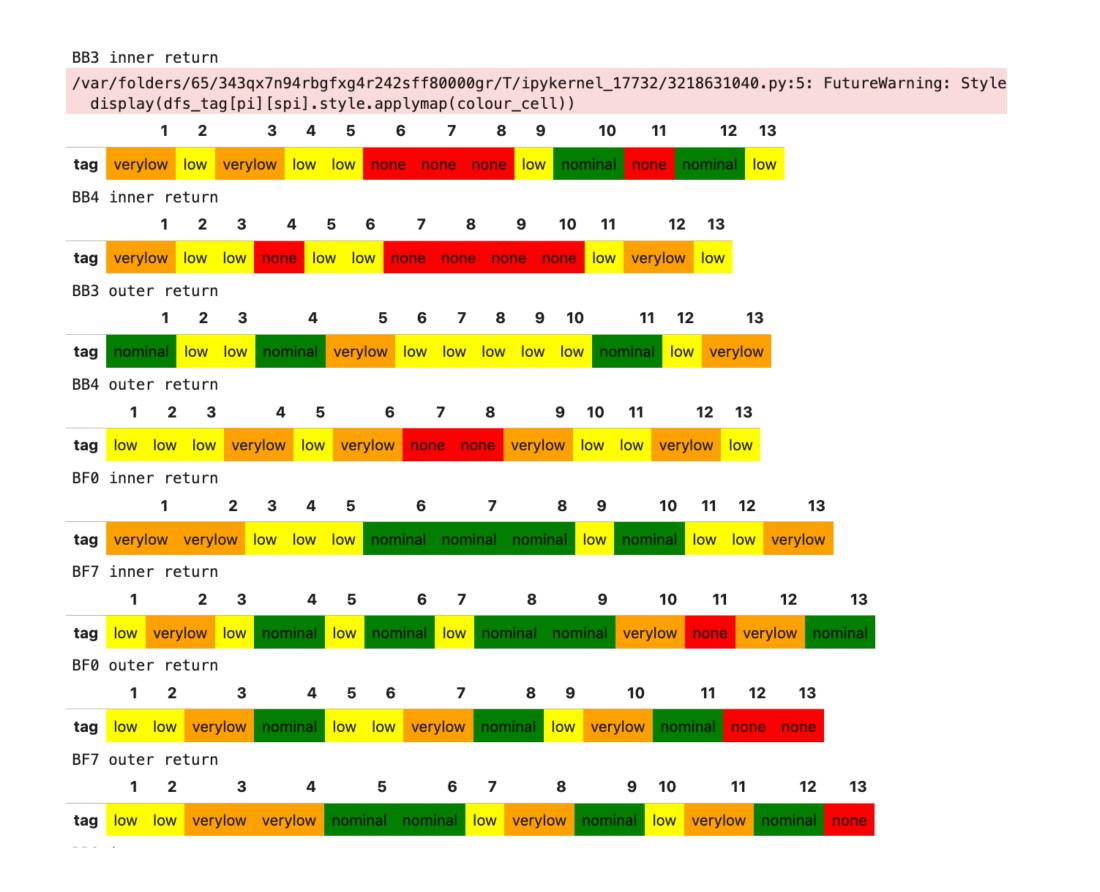


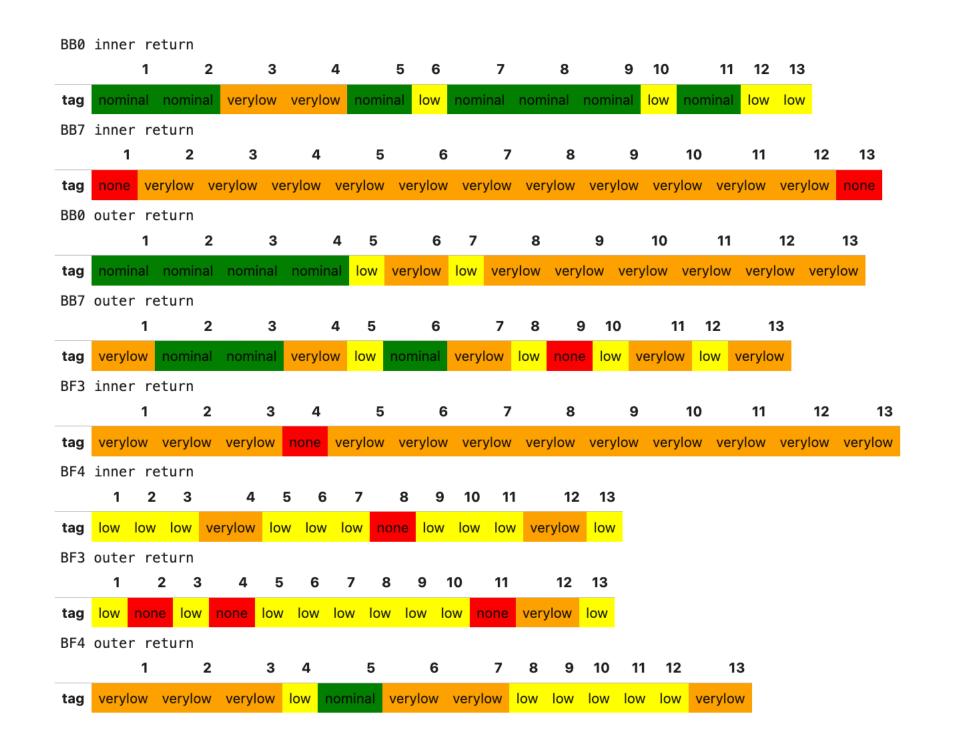
(Index -> # bubbler; bubblers with no inflow pipe not subtracted)

Channel labelling by avg. flow rate

KLM Bubbler updates

Michele, Noah, Sayan

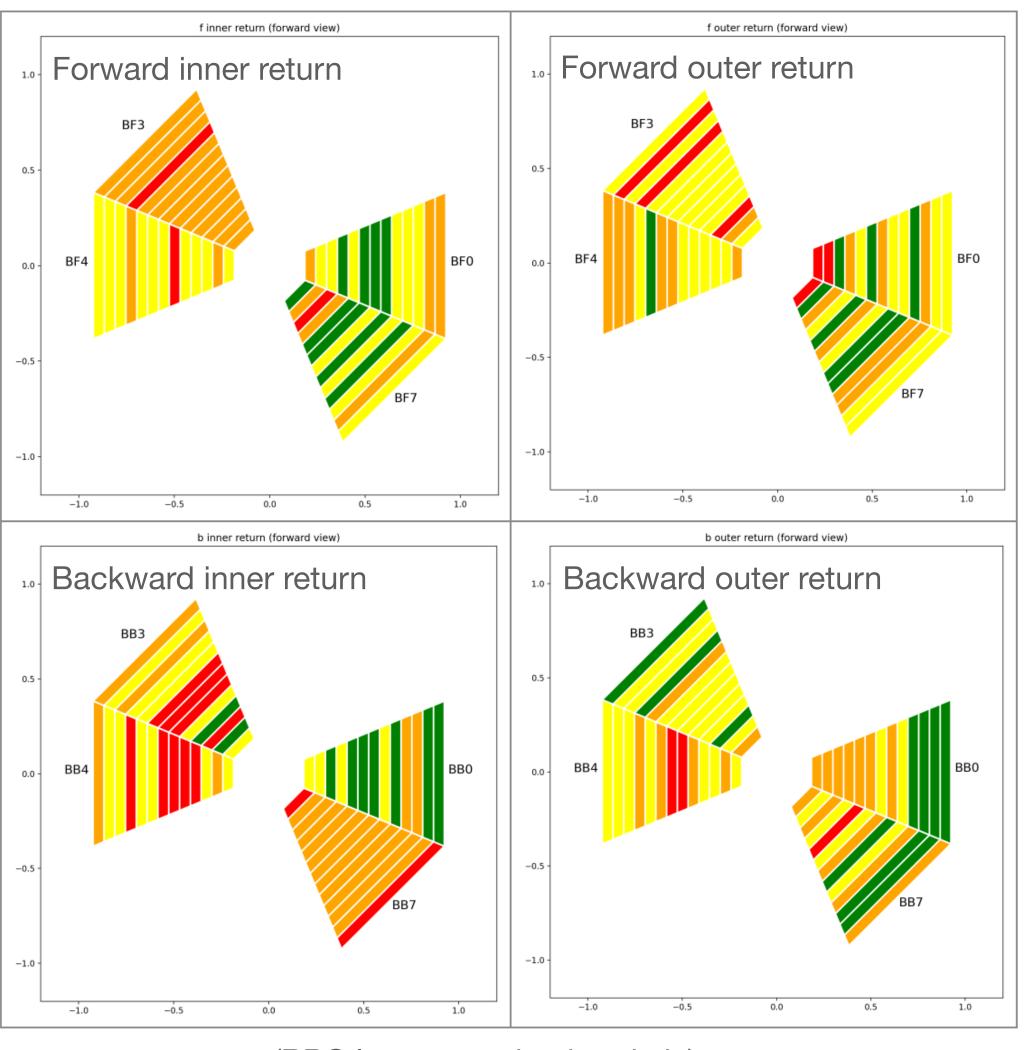




(Index -> RPC layer; maping heuristic)

Channel labelling by avg. flow rate

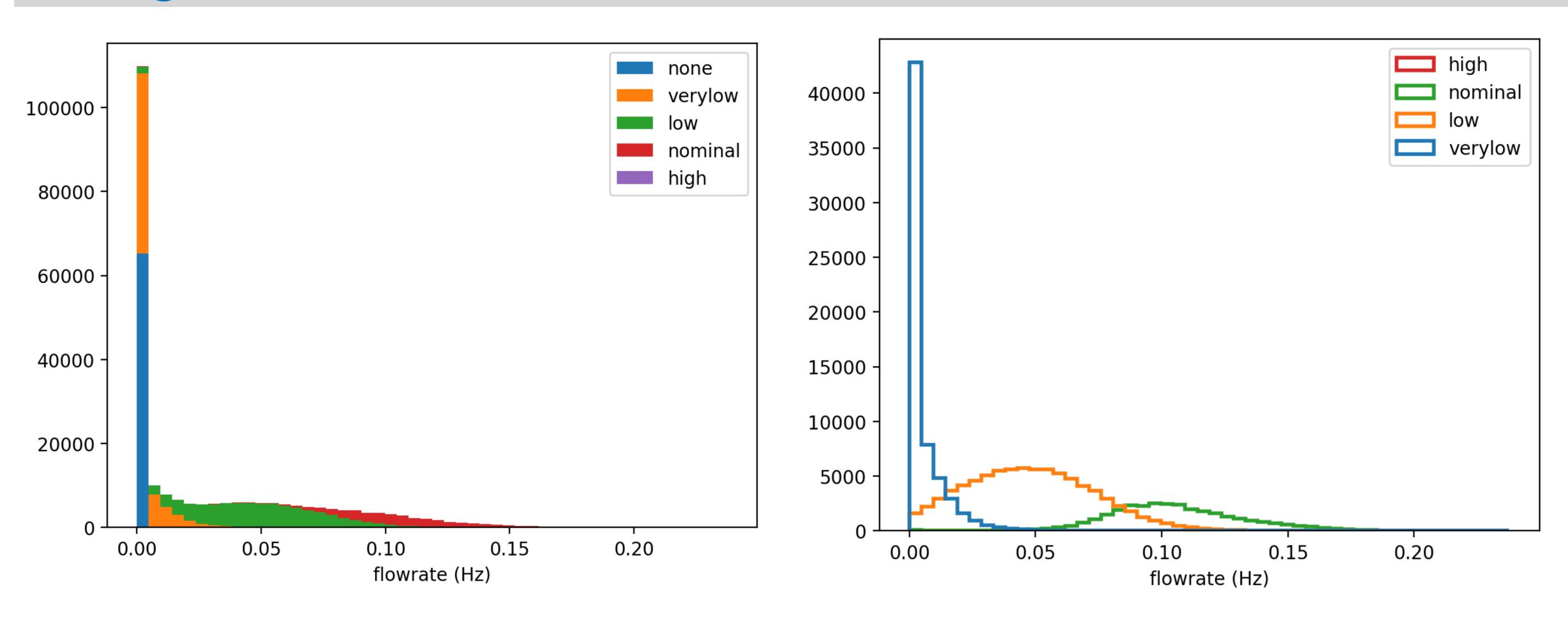
KLM Bubbler updates



(RPC layer mapping heuristic)

Flowrate histogram

KLM Bubbler updates



Flowrate histogram

KLM Bubbler updates

