

# Creating Bins Notes

When creating bins for phosphorus-bulk for the epa sensors, Python can start as many threads as set in a variable (50 in this case) as per indicated in the python file.

But the geostreaming api, is only creating bins 4 at a time, as indicated by the different colors in the table below

sensor_id	Start_python	start_scala	end_scala	end_python
761	4:12:41	4:12:41 PM	4:23:05 PM	4:23:05
762	4:12:41	4:12:41 PM	4:22:49 PM	4:22:51 AM
758	4:12:41	4:12:41 PM	4:22:51 PM	4:22:51
760	4:12:41	4:12:41 PM	4:23:02 PM	4:23:05
759	4:12:41	4:22:49 PM	4:33:19 PM	4:33:19
757	4:12:41	4:22:51 PM	4:39:11 PM	
764	4:12:41	4:23:02 PM	4:36:42 PM	4:36:42
766	4:12:41	4:23:05 PM	4:33:24 PM	4:37:11
805	4:12:41	4:33:19 PM	4:45:38 PM	
763	4:12:41	4:33:24 PM	4:37:11 PM	
778	4:12:41	4:36:42 PM	4:52:12 PM	
765	4:12:41	4:37:11 PM	4:47:11 PM	
773	4:12:41	4:39:11 PM	4:53:05 PM	
798	4:12:41	4:45:39 PM		
775	4:12:41	4:47:11 PM		
792	4:12:41	4:52:12 PM		
785	4:12:41	4:53:05 PM		

[generate\\_bins\\_epa.py](#) - Python script used

[binningresults-phosphorus-bulk-dec-4v4.log](#) - log file from the python script

[dump-journalctl-dec-4.txt](#) - Journal ctl for the geostreaming api service