

**Folder and File Organization Notes:** Input files are in /scripts and output files are in /plots. Generally, all output files for the figures in the Data and Methods section are located in the /plots/Thesis/Background folder. Many of the cross section output files are in the /plots/cross\_sections folder. Based on how I ID'd the crystals, Family 1 is 14\_32\_2\_ , Family 2 is 17\_32\_1\_ , and Family 3 is 26\_16\_5\_ . There is a fourth number at the end of each denoting the size bin at that location.

### Figure Directory and Filename Locations:

Figure Number	Input Directory and Filename	Output File Directory and Filename
2.1	A: /rita/s0/mjv5638/scripts/WRF/background/intensity_plotter.py B: /rita/s0/mjv5638/scripts/WRF/background/track_plotter.py	A: /rita/s0/mjv5638/plots/Thesis/background/intensity_and_track/harvey_intensity.png B: /rita/s0/mjv5638/plots/Thesis/background/intensity_and_track/harvey_track.png
2.2	N/A (Taken from Chelsea's Thesis Figures 5 and 6)	N/A (Taken from Chelsea's Thesis Figures 5 and 6)
2.3	A: /rita/s0/mjv5638/scripts/WRF/background/init_spatial_dist.py B&C: /rita/s0/mjv5638/scripts/WRF/background/size_selection_summary.py	A: /rita/s0/mjv5638/plots/Thesis/background/intro_spatial_distributions.png B&C: /rita/s0/mjv5638/plots/880_manuscript/background/init_summary_0400_x117y108z23_crysID168x204y27z.png
2.4	A&B: /rita/s0/mjv5638/scripts/WRF/background/alltrajectories.py C: /rita/s0/mjv5638/scripts/WRF/verticalvelocity_planview	A&B: /rita/s0/mjv5638/plots/880_manuscript/background/alltrajectorieslocations/alltrajectorieslocations_0400_x117y108z23_size0.png C: /rita/s0/mjv5638/plots/Thesis/vertical_velocity_planview_with_shear.png
3.1	/rita/s0/mjv5638/scripts/WRF/trajectories_and_WRF_2categories	/rita/s0/mjv5638/plots/Thesis/trajectories_and_WRF_mass_and_aspect_ratio.png
3.2	/rita/s0/mjv5638/scripts/WRF/trajectories_and_WRF_withspatiallyadjacent	/rita/s0/mjv5638/plots/Thesis/summaryplot_largemass_withmarkers_14_32_2_4.png
3.3	/rita/s0/mjv5638/scripts/WRF/crosssection_and_reflectivity_fam1.py	/rita/s0/mjv5638/plots/Thesis/cross_section_largemass_14_32_2_0_r15_35.png
3.4	/rita/s0/mjv5638/scripts/WRF/trajectories_and_WRF_multiplequeries	/rita/s0/mjv5638/plots/Thesis/summary_plot_family2_trajectories_and_WRF.png
3.5	/rita/s0/mjv5638/scripts/WRF/trajectories_and_WRF_withspatiallyadjacent	/rita/s0/mjv5638/plots/Thesis/summaryplot_withSACsmarkers_17_32_1_4.png
3.6	/rita/s0/mjv5638/scripts/WRF/crosssection_4panel_fam2.py	/rita/s0/mjv5638/plots/cross_sections/four_panels/17_32_1_2/1040_seconds/cross_section_268_trajectory_17_32_1_2.png
3.7	/rita/s0/mjv5638/scripts/WRF/crosssection_4panel_fam2.py	/rita/s0/mjv5638/plots/cross_sections/four_panels/17_32_1_2/4700_seconds/tangential_cross_section_110_trajectory_17_32_1_2.png
3.8	/rita/s0/mjv5638/scripts/WRF/trajectories_and_WRF_3rdfam.py	/rita/s0/mjv5638/plots/Thesis/summaryplot_allmarkers_26_16_5_2.png
3.9	/rita/s0/mjv5638/scripts/WRF/crosssection_fam3_beginning.py	/rita/s0/mjv5638/plots/cross_sections/26_16_5_0/fourpanel_divergence_cross_section_136_r22.5_32.5.png
3.10	/rita/s0/mjv5638/scripts/WRF/crosssection_fam3_divergence.py	/rita/s0/mjv5638/plots/cross_sections/26_16_5_0/fourpanel_divergence_cross_section_094_r25_40.png
3.11	/rita/s0/mjv5638/scripts/WRF/crosssection_fam3_sizebin1.py	/rita/s0/mjv5638/plots/cross_sections/26_16_5_0/cross_section_FC4_110.png
3.12	/rita/s0/mjv5638/scripts/WRF/crosssection_fam3_sizebin2.py	/rita/s0/mjv5638/plots/cross_sections/26_16_5_0/cross_section_FC5_056.png
3.13	/rita/s0/mjv5638/scripts/WRF/crosssection_fam3_moresizes_divergence.py	/rita/s0/mjv5638/plots/Thesis/unique_and_extreme_family/four_panel_looping_30.png
3.14	/rita/s0/mjv5638/scripts/WRF/trajectories_and_WRF_3rdfam_newsizebins.py	/rita/s0/mjv5638/plots/Thesis/unique_and_extreme_family/More_Sizes/summary_plot_morecrystals_family3_1050_trajectories_and_WRF.png
3.15	/rita/s0/mjv5638/scripts/WRF/trajectories_and_WRF_3rdfam_newsizebins_4crystals.py	/rita/s0/mjv5638/plots/Thesis/unique_and_extreme_family/More_Sizes/45/summary_plot_family3_newsizebins_4crystals.png
3.16	/rita/s0/mjv5638/scripts/WRF/crosssection_fam3_moresizes_divergence.py	/rita/s0/mjv5638/plots/Thesis/unique_and_extreme_family/More_Sizes/45/moresizes_2crystals_cross_section.png