

151120 Rachel Carson/MiniROV DeepPIV Dive Objectives

Vortex Generator Test

did not draw up well

OH - Outer House; IH - Inner House; bold = priority

30 mm/s	1	3	5	later speed settings did not draw up well
40 mm/s	1	3	5	
50 mm/s	1	3	5	

Dye Visualizations

Notes

inlet chamber near peaks on OH				
outlet flow in IH?				

3D Reconstructions with near-IR Filter off

Notes

IH membrane				
OH filter? and inlet chambers				
inner house				
function of anterior chamber				
pre-filter mesh size				
buccal tube/median chamber				
exhaust at posterior end of IH				
other organisms/features				

DeepPIV Visualizations

Notes

flow rates in tail chamber				
exhaust at posterior end of IH				
exhaust flow rate at peak				
exhaust at inner chamber of IH				
pre-filter chamber flow rate				
function of anterior chamber				

Fluorescent Particle Visualizations

Notes

IH particle selection				
zoom in on buccal tube				