

# Flight Results for Demo Flights 2016

	<a href="#">Flight #1</a>	<a href="#">Flight #2</a>	<a href="#">Flight #3</a>	<a href="#">Flight #4</a>	Flight #5
Owners	Mr Duhrkopf	Maggie, Maria & Julia	Tyler & John	Mr Duhrkopf	
Rocket Name	Cyclones	Dr Seussilious	Finding Nemo	Cyclones	
Rocket Type	Sumo	Arcas	Arcas	Sumo	
Rocket Mass	1005 g	590 g	587 g	1005 g	
Motor Used	G76-4G	G53-5J	G79W-M	G64-7W	
Estimated Cd	0.38	0.62	0.595	0.38	
Estimated Altitude	875 ft	1100 ft	1475 ft	850 ft	
Apogee Altitude	357 ft	1153 ft	1364 ft	600 ft	
Top Speed	87 mph	229 mph	2404 mph	138 mph	
Burn Time      burn	2.49 s	1.55 s	1.6 s	2.17 s	
Peak Acceleration    PAcc	8.8 g	12.4 g	9.2 g	7.1 g	
Avg Accerleration    AAcc	1.6 g	6.7 g	6.8 g	2.9 g	
Coast to Apogee      C2AP	2.9 s	6.1 s	7.4 s	4.6 s	
Apogee to Eject      AP2E	1.4 s	-2.8 s	2.9 s	3.7 s	
Ejection Altitude    EALt	334 ft	1052 ft	1292 ft	435 ft	
Descent Speed        dESc	11 mph	10 mph	15 mph	14 mph	
Flight Duration      durA	27 s	73.7 s	65.5 s	30.2 s	
Notes	Altimeter data was unreliable. Perfect flight. Need to find a better way to have altimeter for the Sumo. Also this altimeter could be bad	G53-5 is not enough delay for this engine/rocket combination. Chute popped well before apogee. Could get another 150 feet.	Put a hole in the chute to test the descent speed n drift for the G80-10 launches. Hole worked great.	Using the 7 sec delay to see how that looks compared to 4 sec. Not good for 7 sec. Need a perfect launch to make it ok. Flight went sideways	