

Flight report

Highlights

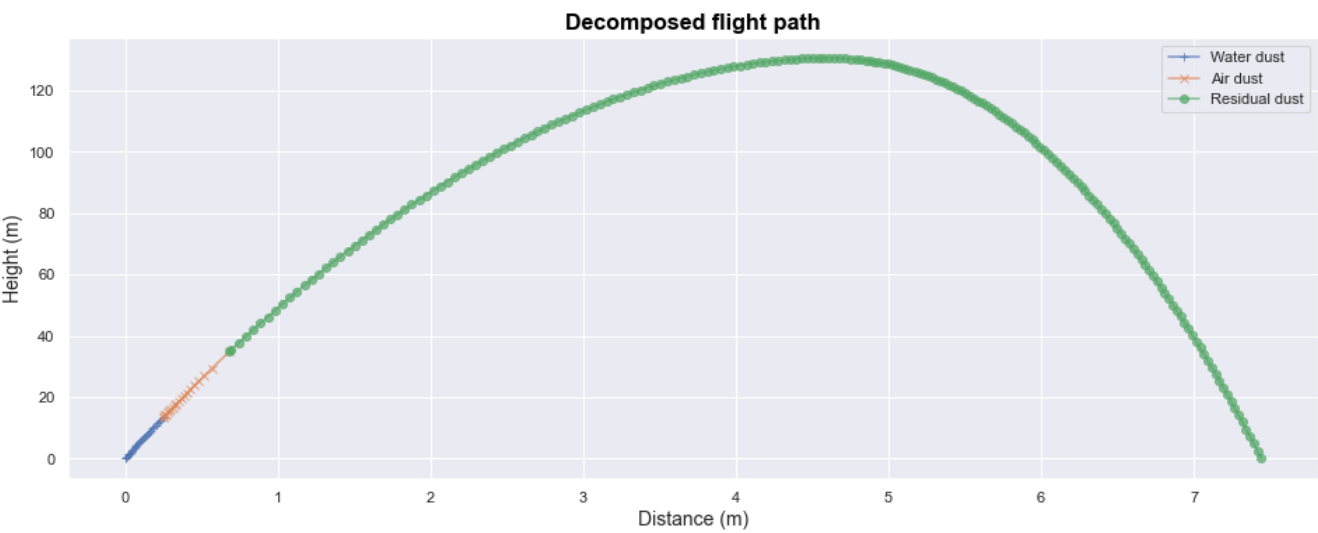
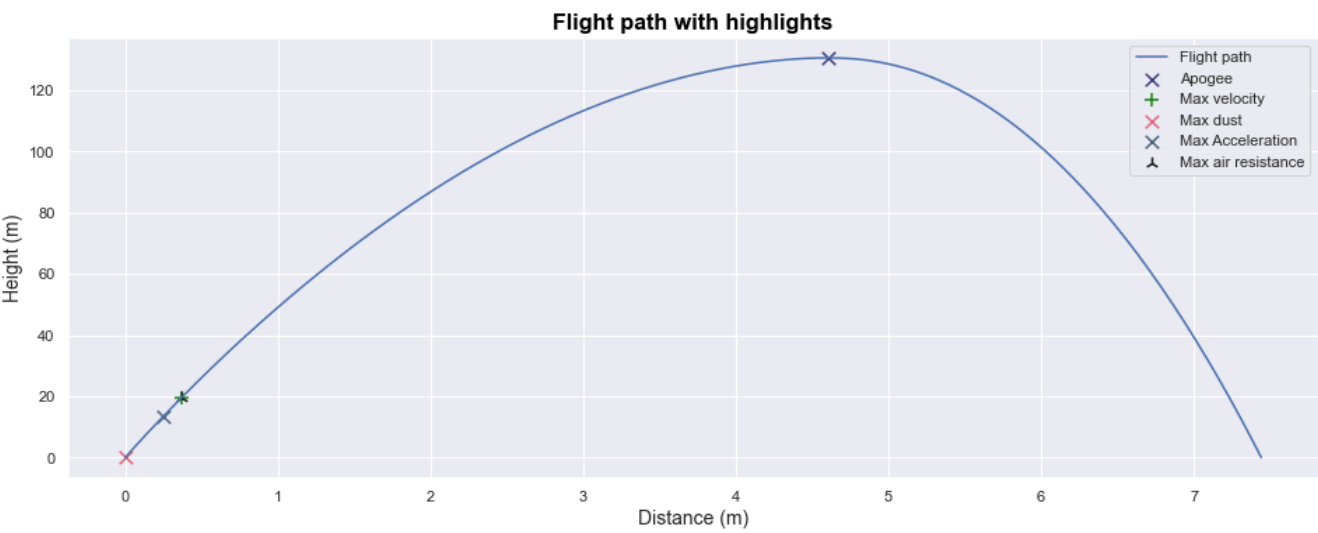
	Values
Maximal speed (m/s)	48.9624
Maximal speed (km/h)	176.2648
Maximal dust (N)	63.6239
Maximal acceleration (m/s ²)	67.2919
Maximal air resistance (N)	0.8948
Apogee (m)	130.5949
Maximum extent (m)	7.4422
Duration of water ejection (s)	0.3590
Duration of air ejection (s)	0.4516
Total flight time (s)	8.5705

Comments

- The maximum speed is **48.9624 m/s** and corresponds to the coordinates :
x = 0.3688 m
y = 19.5705 m
- The maximum thrust is **63.6239 N** and corresponds to the take-offs :
x = 0.0000 m
y = 0.0000 m
- The maximum acceleration is **67.2919 m/s²** and corresponds to the coordinates :
x = 0.2473 m
y = 13.3519 m
- The coordinates of the end of the water ejection :
x = 0.2473 m
y = 13.3519 m
- The coordinates of the end of the air ejection :
x = 0.6841 m
y = 34.9140 m
- The coordinates of the apogee are :
x = 4.6032 m
y = 130.5949 m

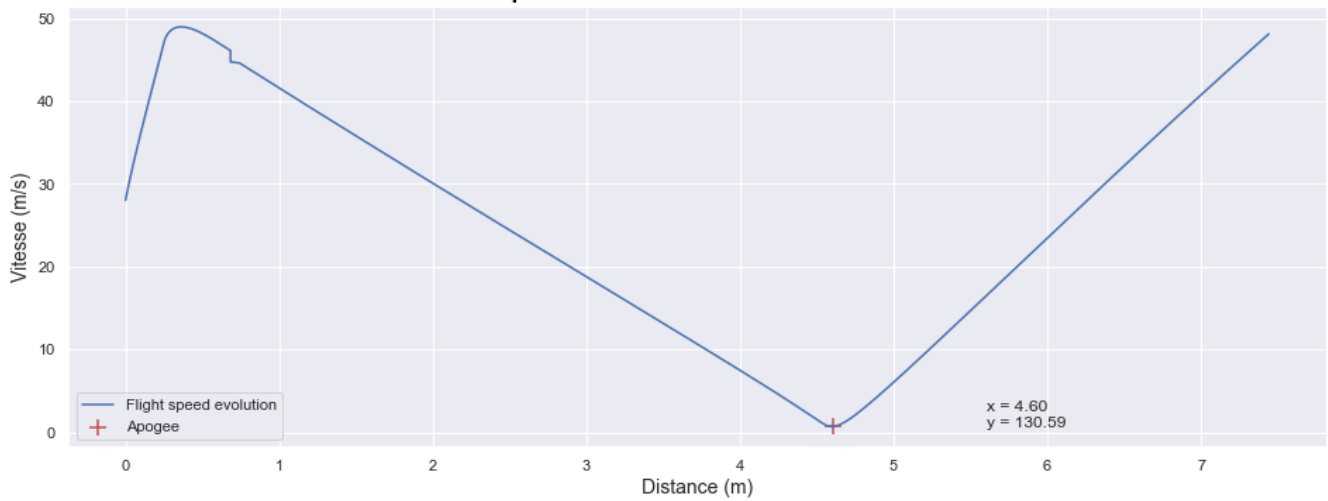
Graphics

Flight path :

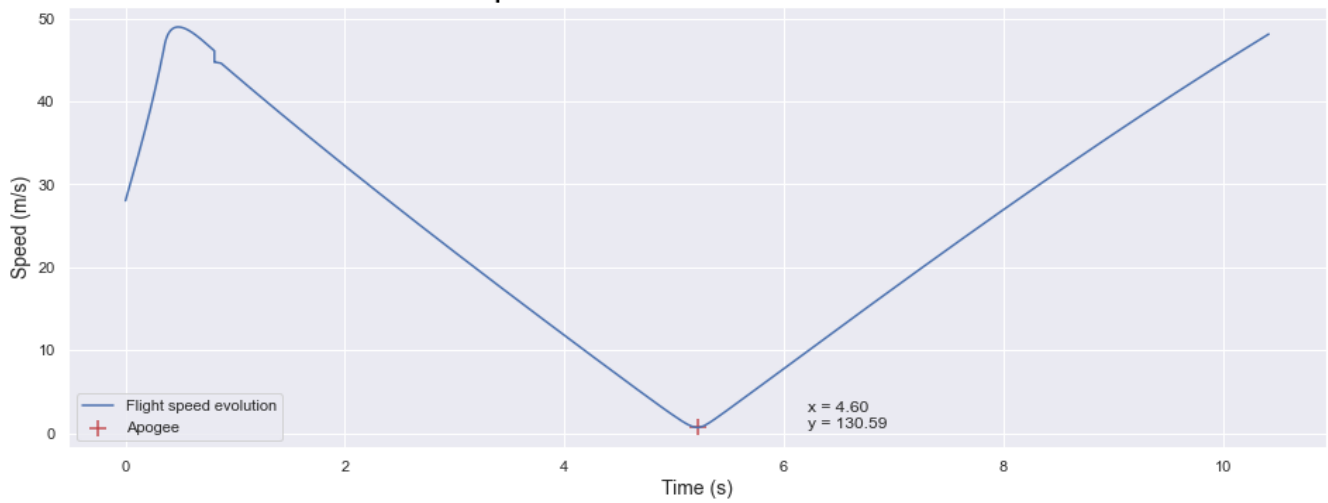


Speed evolution :

Speed of the rocket as a function of x

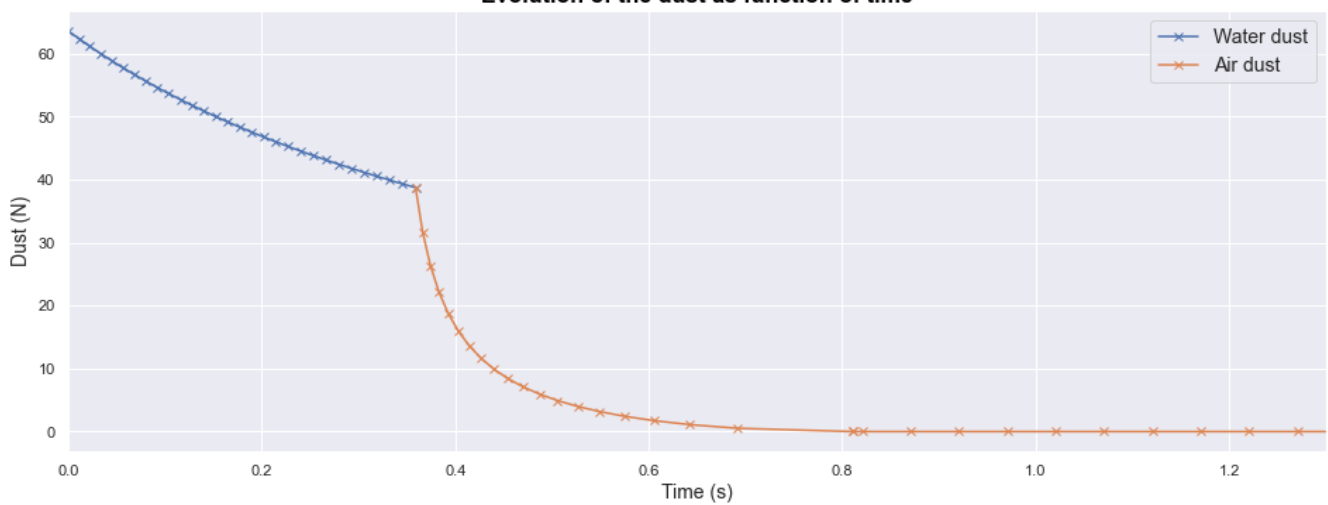


Speed of the rocket as a function of time



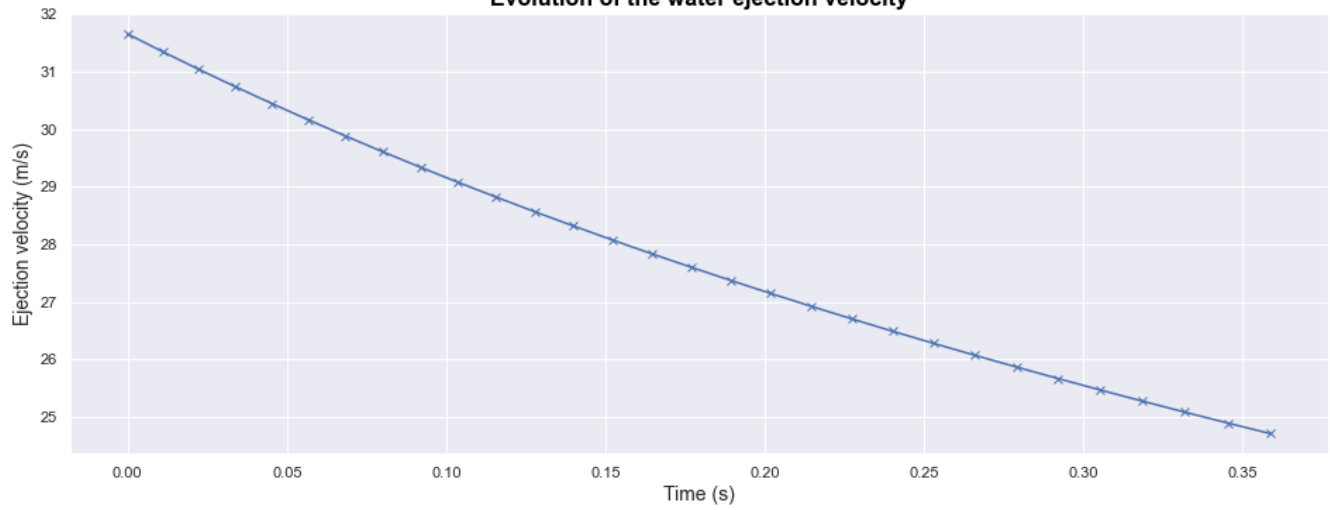
Thrust evolution :

Evolution of the dust as function of time



Ejection speed :

Evolution of the water ejection velocity



Evolution of the air ejection velocity

