

Recover Mission Simulation Report

Route: KSZT KSAN | Distance: 934.4 NM | Bearing: 182.0

Generated: 2025-12-03 15:53

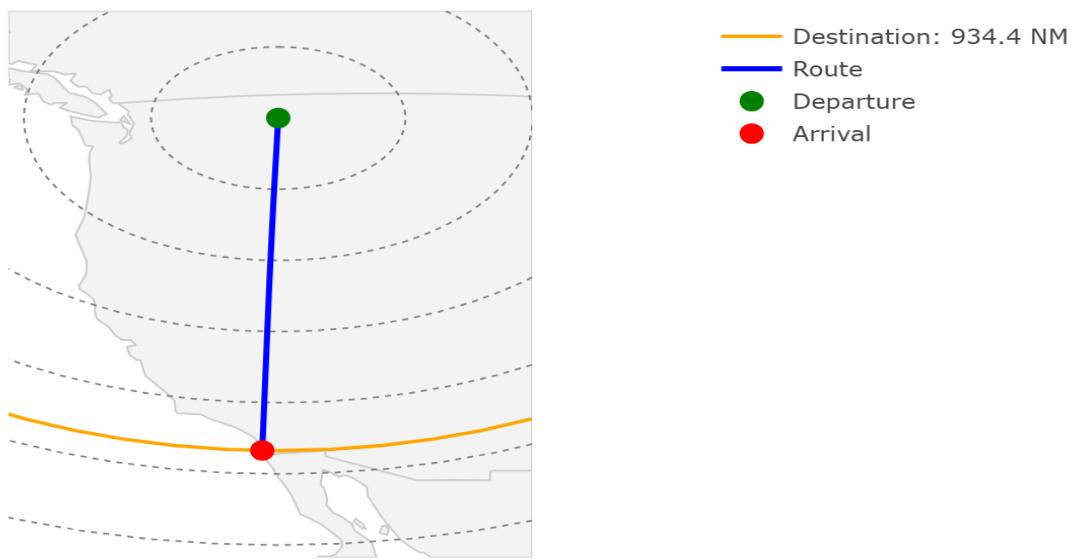
Airports

Type	Airport	ICAO	PA (ft)	DA (ft)
Departure	Sandpoint Arpt	KSZT	2,131	2,131
Arrival	San Diego Intl Arpt	KSAN	17	17

Route Distance: 934.4 NM | Bearing: 182.0°

Flight Route Map

Flight Route



Weight Status

Flatwing

Component	Weight (lb)	Max Weight (lb)
BOW	6,900	
Payload	0	1,500
Initial Fuel	3,440	3,440
Reserve Fuel	600	
Taxi Fuel	100	
Mission Fuel	2,740	
ZFW	6,900	8,400
Ramp Weight	10,340	10,700
Takeoff Weight	10,240	10,600

Tamarack

Component	Weight (lb)	Max Weight (lb)
BOW	6,979	
Payload	0	1,821
Initial Fuel	3,440	3,440
Reserve Fuel	600	
Taxi Fuel	100	

Component	Weight (lb)	Max Weight (lb)
Mission Fuel	2,740	
ZFW	6,979	8,800
Ramp Weight	10,419	10,700
Takeoff Weight	10,319	10,600

Tamarack

Takeoff

Takeoff Start Weight (lb): 10319
 Takeoff End Weight (lb): 10308
 Takeoff Roll Dist (ft): 1092
 Dist to 35 ft (ft): 1324
 Segment 1 Gradient (%): 28.3
 Dist to 400 ft (ft): 8893
 Segment 2 Gradient (%): 27.4
 Dist to 1500 ft (ft): 10455
 Segment 3 Gradient (%): 27.27
 Fuel Remaining After Takeoff (lb): 3329

Takeoff V-Speeds:

Weight: 10308
 VR: 90.1
 V1: 94.4
 V2: 103.0
 V3: 111.6

Climb

Climb Time (min): 36
 Climb Dist (NM): 158
 Climb Fuel (lb): 674
 Fuel Remaining After Climb (lb): 2676

Cruise

Cruise Time (min): 127
 Cruise Dist (NM): 664
 Cruise Fuel (lb): 1189
 Cruise VKTAS (knots): 314
 Cruise Max Mach: 0.533
 Cruise - First Level-Off Alt (ft): 41004
 Fuel Remaining After Cruise (lb): 2150

Descent

Descent Time (min): 23
 Descent Dist (NM): 111
 Descent Fuel (lb): 111
 Fuel Remaining After Descent (lb): 3230

Landing

Landing Start Weight (lb): 8345
 Landing - Dist from 35 ft to Stop (ft): 0
 Landing - Ground Roll (ft): 597
 Fuel Remaining After Landing (lb): 1364
 Approach V-Speeds:
 Weight: 8343
 VAPP: 109.6
 VREF: 84.1

Totals

Total Time (min): 186
 Total Dist (NM): 936
 Total Fuel Burned (lb): 1975
 Fuel Remaining (lb): 1364
 V1 Cut: False

Flatwing

Takeoff

Takeoff Start Weight (lb): 10240
Takeoff End Weight (lb): 10229
Takeoff Roll Dist (ft): 1178
Dist to 35 ft (ft): 1420
Segment 1 Gradient (%): 26.47
Dist to 400 ft (ft): 9470
Segment 2 Gradient (%): 25.58
Dist to 1500 ft (ft): 11279
Segment 3 Gradient (%): 25.64
Fuel Remaining After Takeoff (lb): 3329

Takeoff V-Speeds:

Weight: 10229
VR: 93.9
V1: 98.4
V2: 107.3
V3: 116.3

Climb

Climb Time (min): 155
Climb Dist (NM): 795
Climb Fuel (lb): 1997
Fuel Remaining After Climb (lb): 2680

Cruise

Cruise Time (min): 5
Cruise Dist (NM): 28
Cruise Fuel (lb): 48
Cruise VKTAS (knots): 317
Cruise Max Mach: 0.572
Cruise - First Level-Off Alt (ft): 37001
Fuel Remaining After Cruise (lb): 1964

Descent

Descent Time (min): 23
Descent Dist (NM): 111
Descent Fuel (lb): 123
Fuel Remaining After Descent (lb): 3218

Landing

Landing Start Weight (lb): 8071
Landing - Dist from 35 ft to Stop (ft): 0
Landing - Ground Roll (ft): 629
Fuel Remaining After Landing (lb): 1169

Approach V-Speeds:

Weight: 8069
VAPP: 112.2
VREF: 86.5

Totals

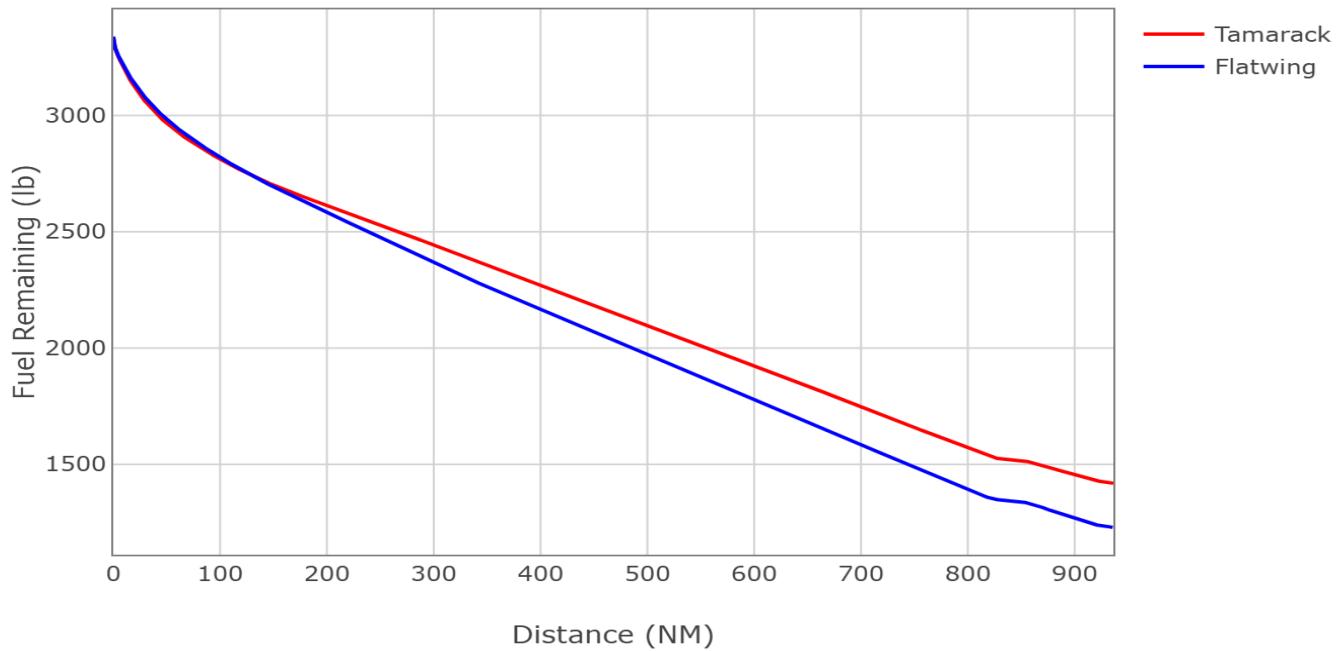
Total Time (min): 183
Total Dist (NM): 935
Total Fuel Burned (lb): 2170
Fuel Remaining (lb): 1169
V1 Cut: False

Hourly Fuel Burn (lb)

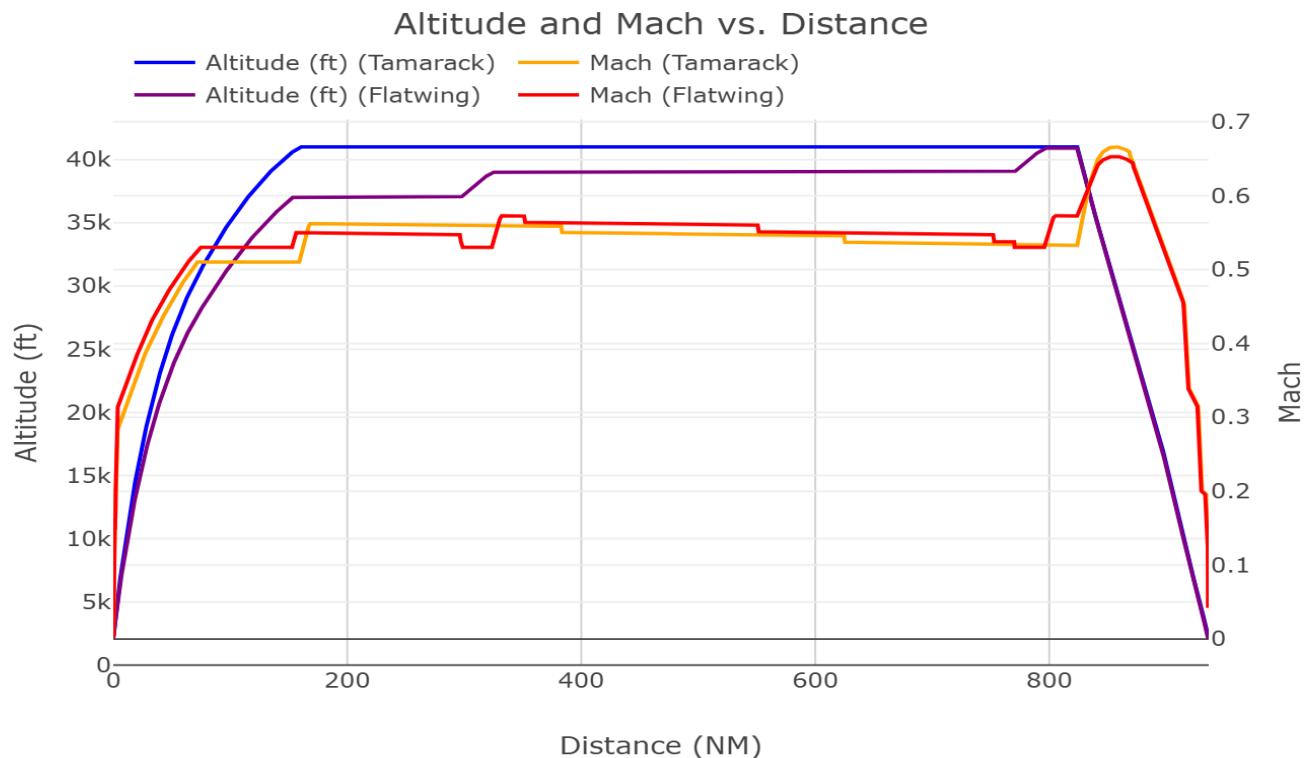
Hour	Tamarack (lb)	Flatwing (lb)
1	896	986
2	561	640
3	507	538
4	10	4

Fuel Remaining vs. Distance

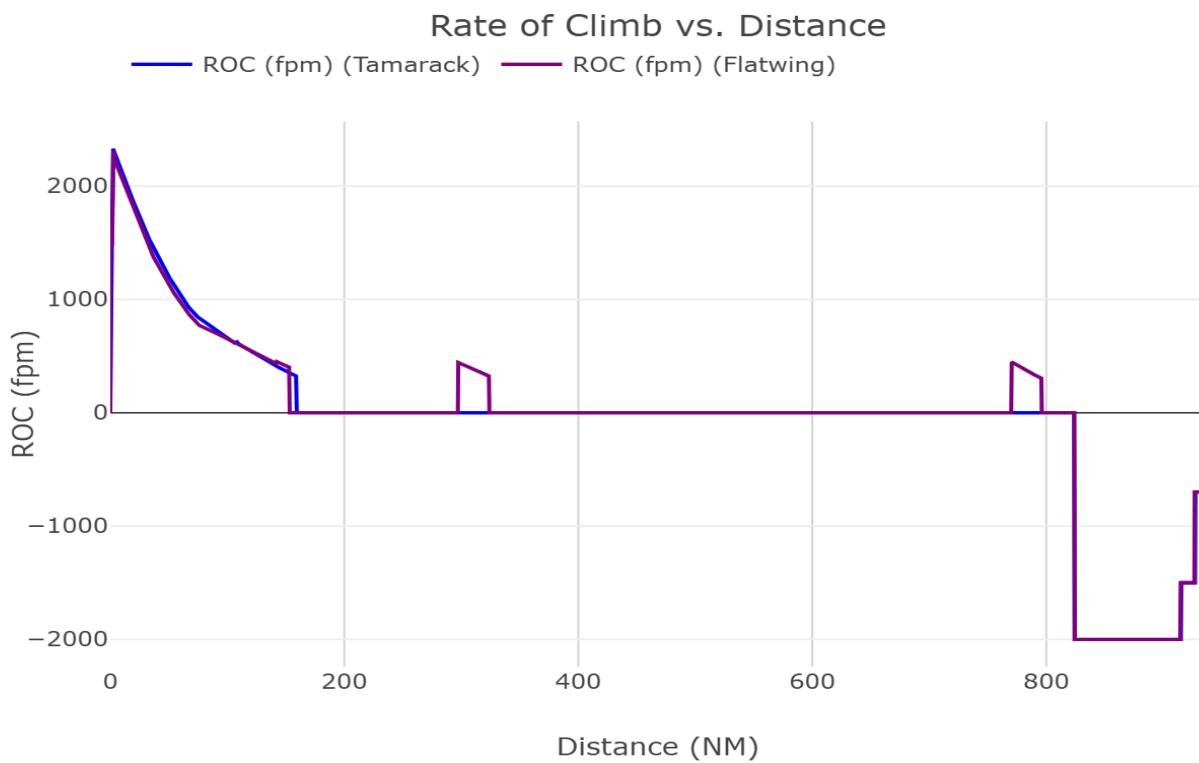
Fuel Remaining vs Distance - Comparison



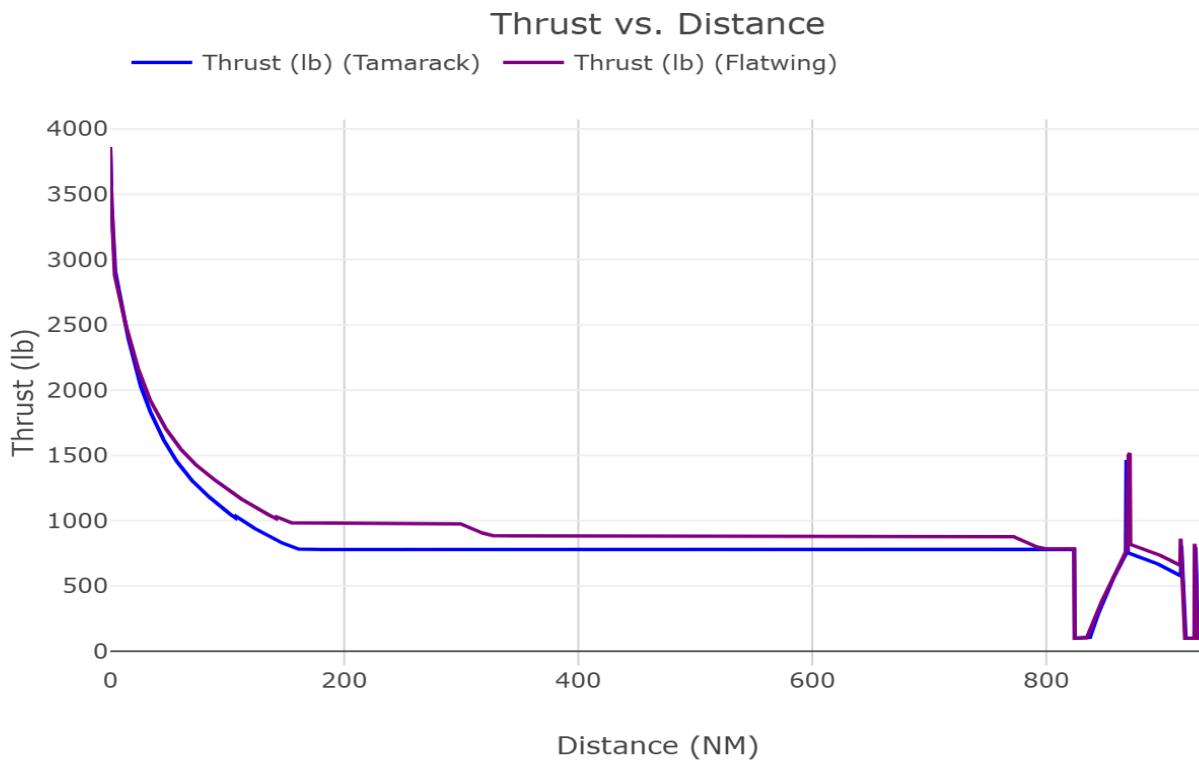
Altitude and Mach vs. Distance



Rate of Climb vs. Distance



Thrust vs. Distance



Drag vs. Distance

