

Recover Mission Simulation Report

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

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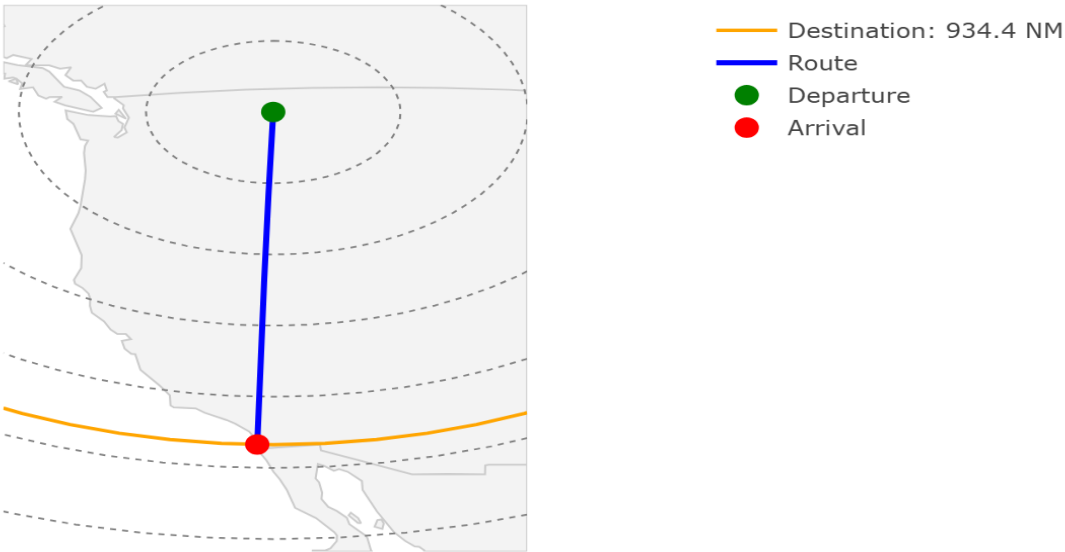
Airports

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): 108
 Cruise Dist (NM): 665
 Cruise Fuel (lb): 1016
 Cruise VKTAS (knots): 367
 Cruise Max Mach: 0.652
 Cruise - First Level-Off Alt (ft): 41004
 Fuel Remaining After Cruise (lb): 2323

Descent

Descent Time (min): 23
 Descent Dist (NM): 113
 Descent Fuel (lb): 114
 Fuel Remaining After Descent (lb): 3227

Landing

Landing Start Weight (lb): 8515
 Landing - Dist from 35 ft to Stop (ft): 0
 Landing - Ground Roll (ft): 609
 Fuel Remaining After Landing (lb): 1534
 Approach V-Speeds:
 Weight: 8514
 VAPP: 110.6
 VREF: 85.0

Totals

Total Time (min): 168
 Total Dist (NM): 938
 Total Fuel Burned (lb): 1805
 Fuel Remaining (lb): 1534
 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): 33
Climb Dist (NM): 152
Climb Fuel (lb): 670
Fuel Remaining After Climb (lb): 2680

Cruise

Cruise Time (min): 108
Cruise Dist (NM): 671
Cruise Fuel (lb): 1277
Cruise VKTAS (knots): 369
Cruise Max Mach: 0.657
Cruise - First Level-Off Alt (ft): 37001
Fuel Remaining After Cruise (lb): 2062

Descent

Descent Time (min): 21
Descent Dist (NM): 100
Descent Fuel (lb): 124
Fuel Remaining After Descent (lb): 3217

Landing

Landing Start Weight (lb): 8169
Landing - Dist from 35 ft to Stop (ft): 0
Landing - Ground Roll (ft): 637
Fuel Remaining After Landing (lb): 1266
Approach V-Speeds:
Weight: 8167
VAPP: 112.7
VREF: 87.0

Totals

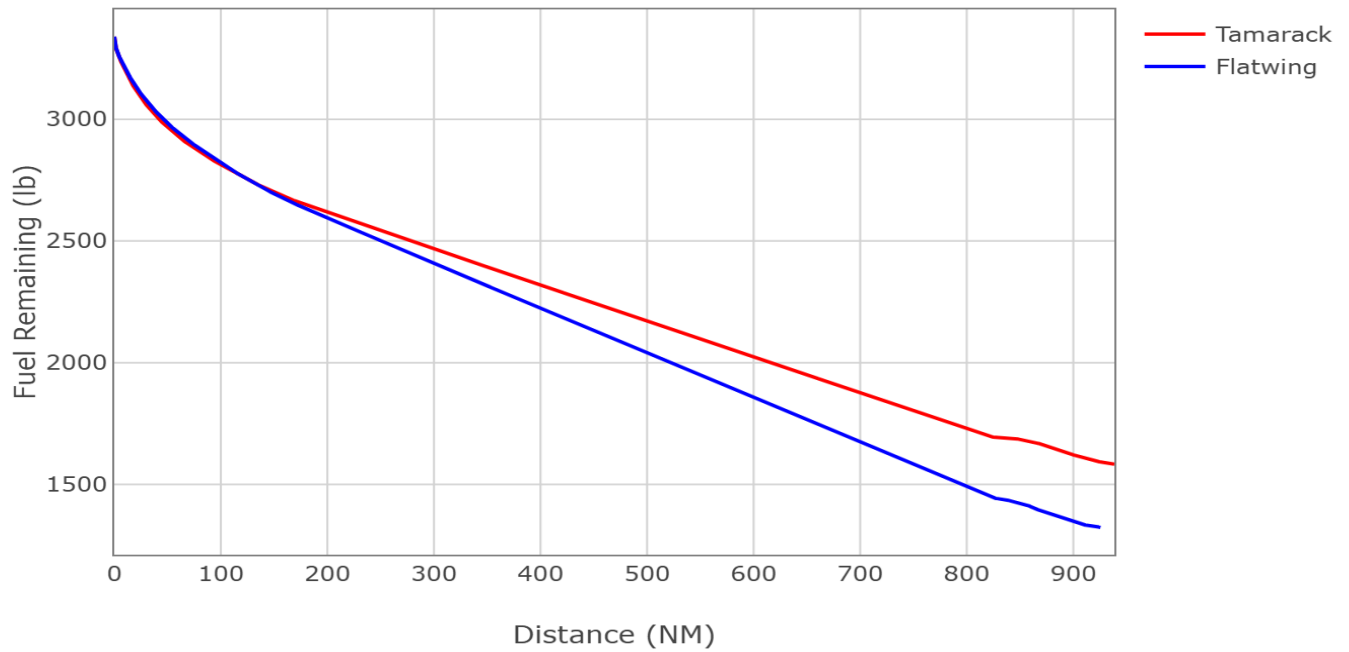
Total Time (min): 163
Total Dist (NM): 925
Total Fuel Burned (lb): 2073
Fuel Remaining (lb): 1266
V1 Cut: False

Hourly Fuel Burn (lb)

Hour	Tamarack (lb)	Flatwing (lb)
1	895	985
2	561	705
3	348	381

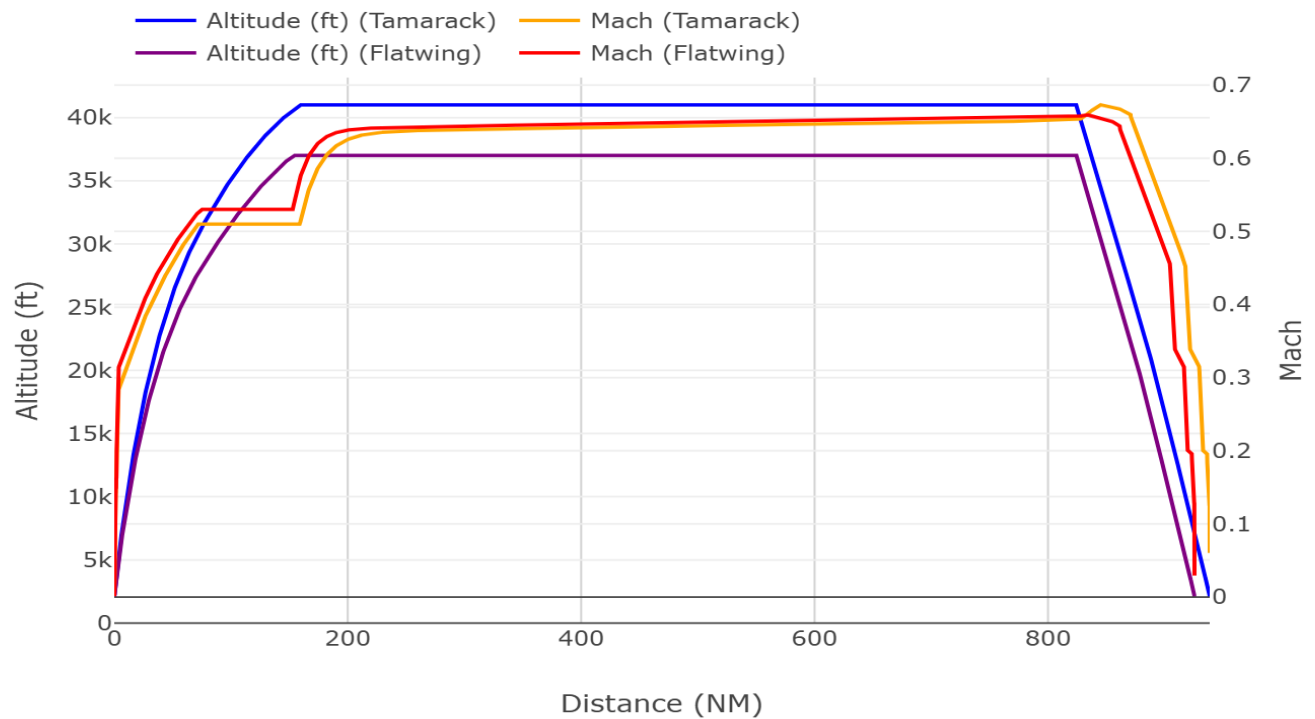
Fuel Remaining vs. Distance

Fuel Remaining vs Distance - Comparison

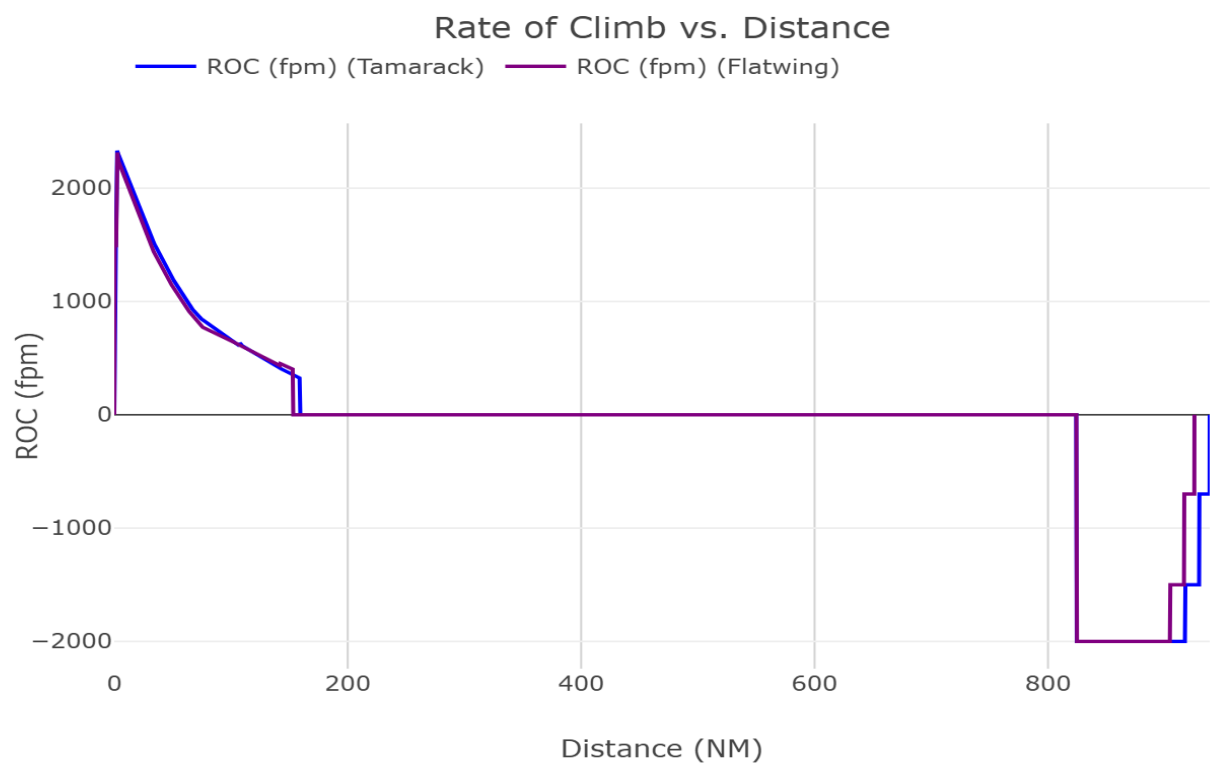


Altitude and Mach vs. Distance

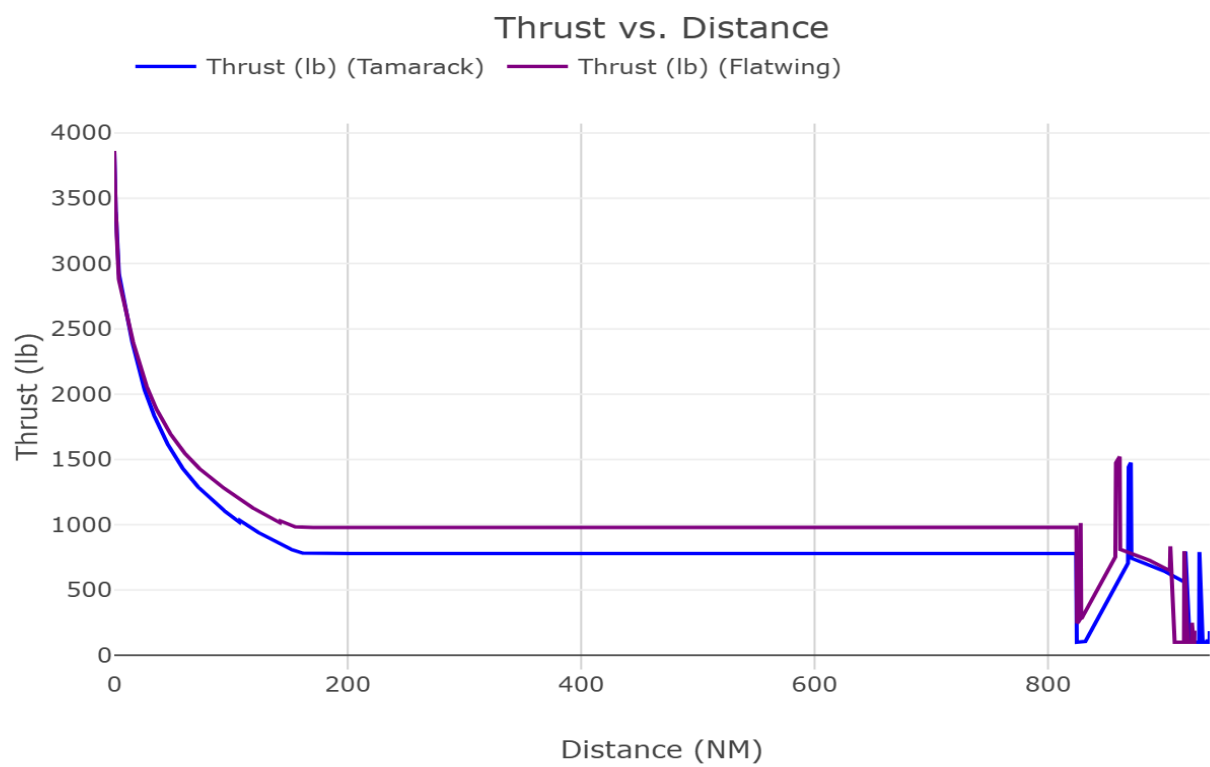
Altitude and Mach vs. Distance



Rate of Climb vs. Distance



Thrust vs. Distance



Drag vs. Distance

