

Recover Mission Simulation Report

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

Generated: 2025-11-25 17:24

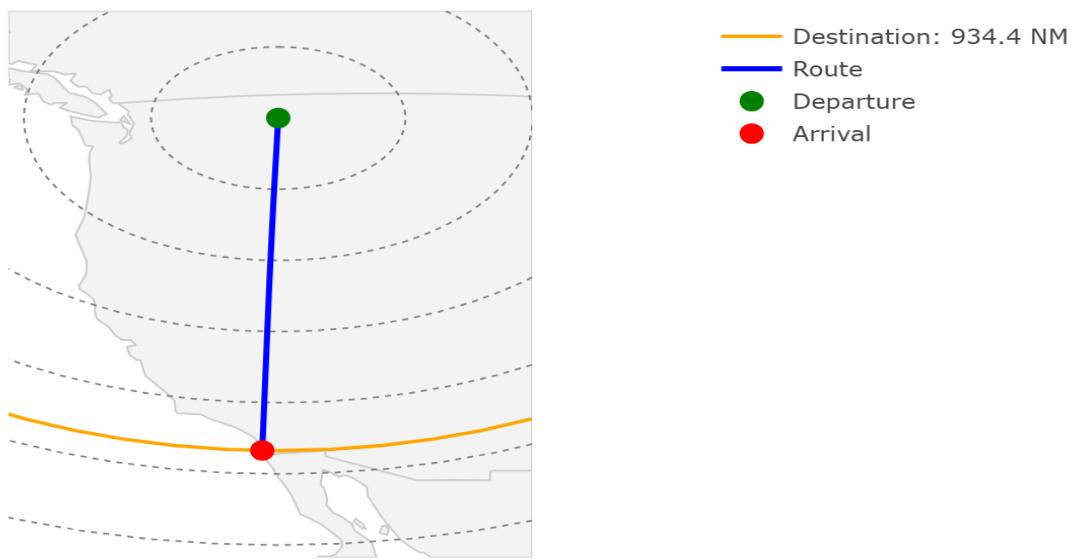
Airports

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)
BOW	6,900
Payload	0
Initial Fuel	3,440
Reserve Fuel	600
Taxi Fuel	100
Mission Fuel	2,740
ZFW	6,900
Ramp Weight	10,340
Takeoff Weight	10,240

Tamarack

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

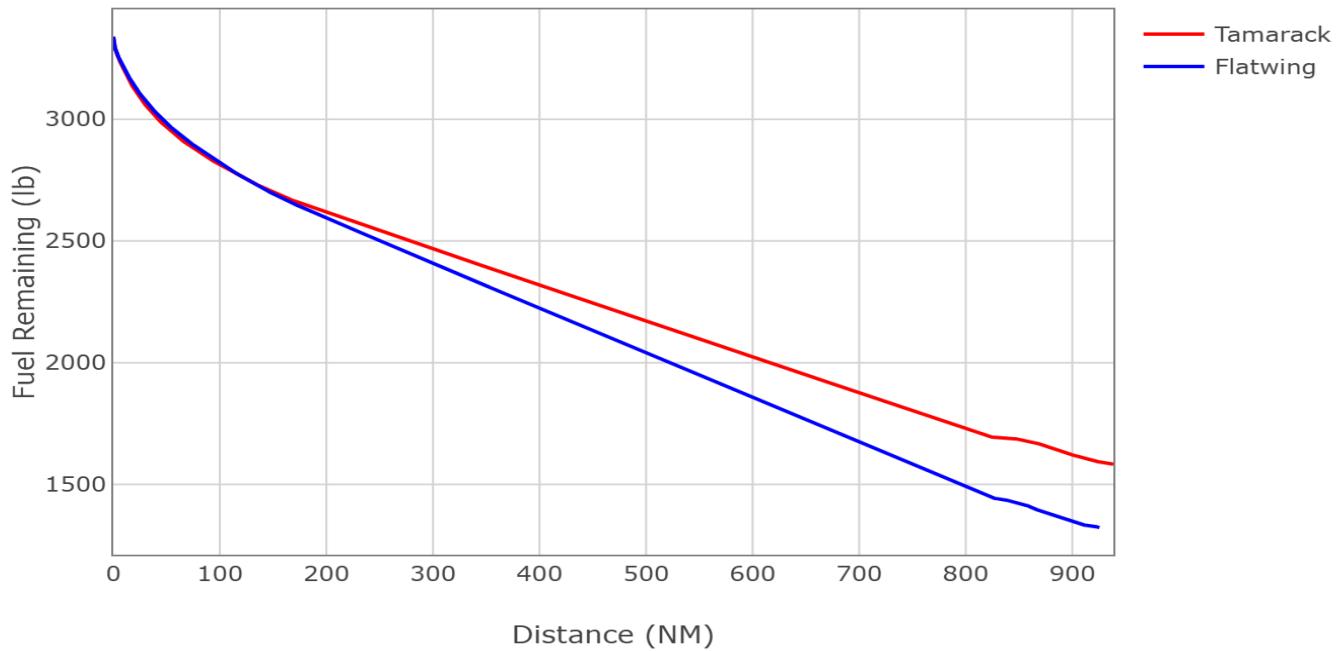
V1 Cut: False

Hourly Fuel Burn (lb)

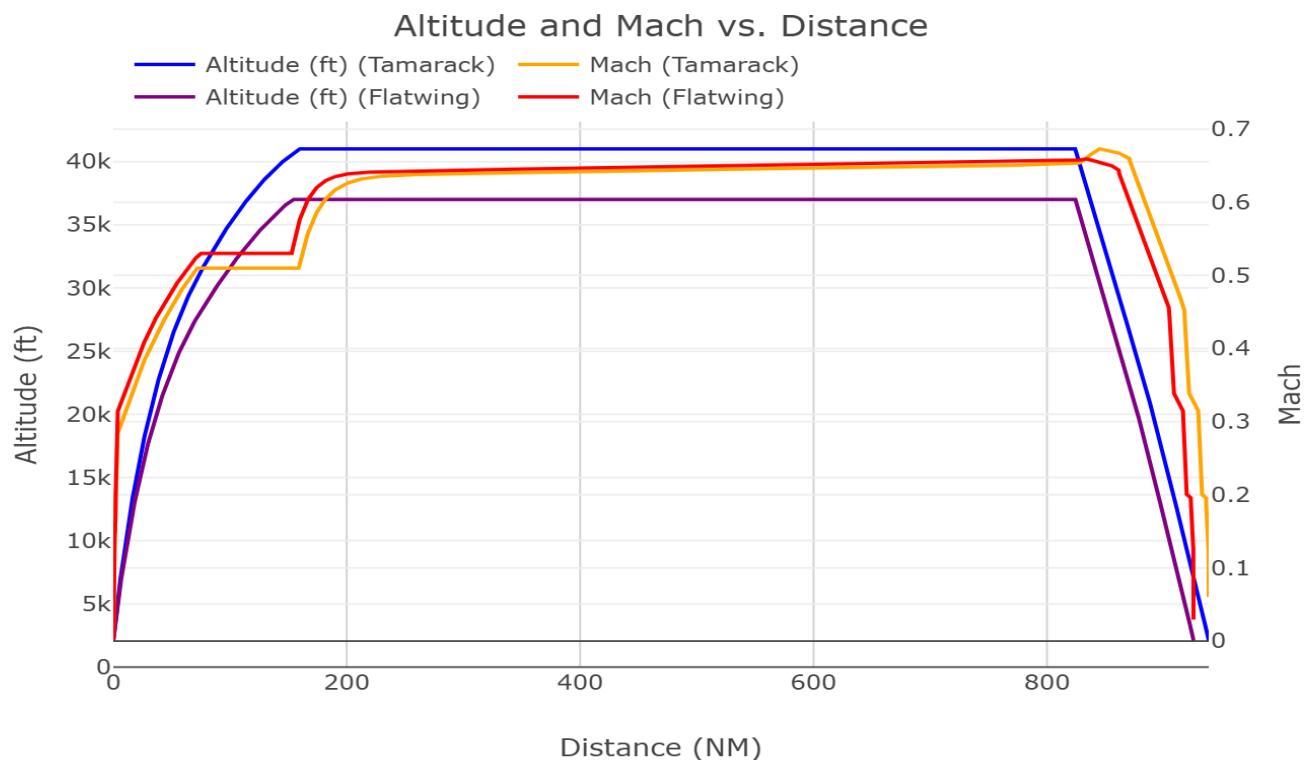
Hour	Tamarack (lb)	Flatwing (lb)
1	895	985
2	561	705
3	348	381

Fuel Remaining vs. Distance

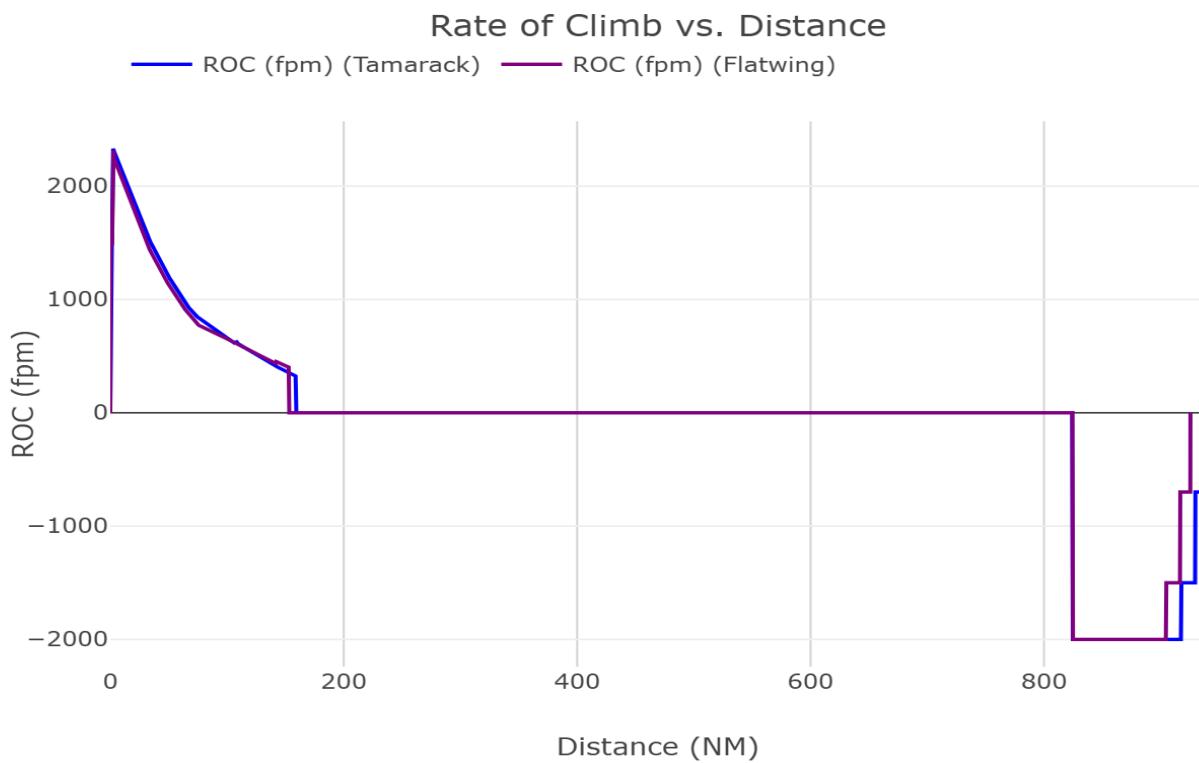
Fuel Remaining vs Distance - Comparison



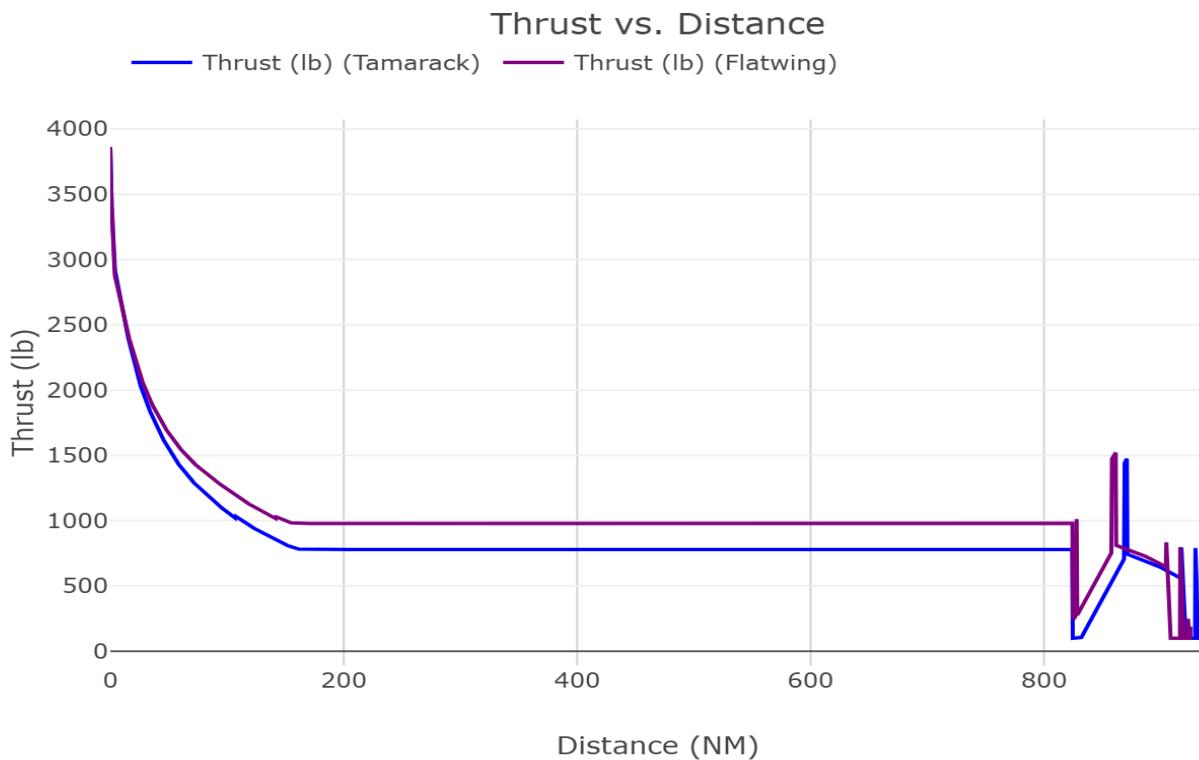
Altitude and Mach vs. Distance



Rate of Climb vs. Distance



Thrust vs. Distance



Drag vs. Distance

