

# Recover Mission Simulation Report

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

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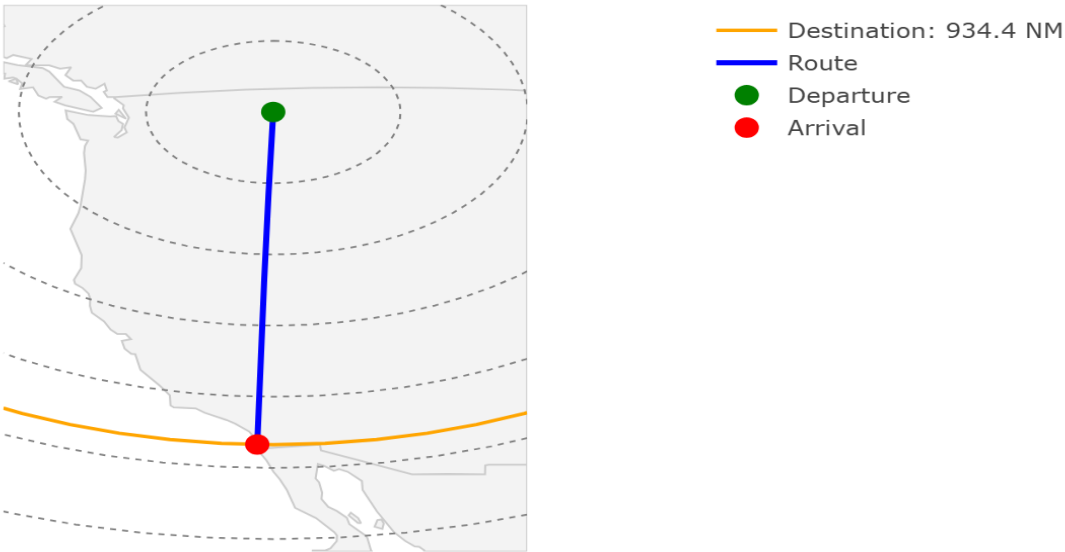
## Airports

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): 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

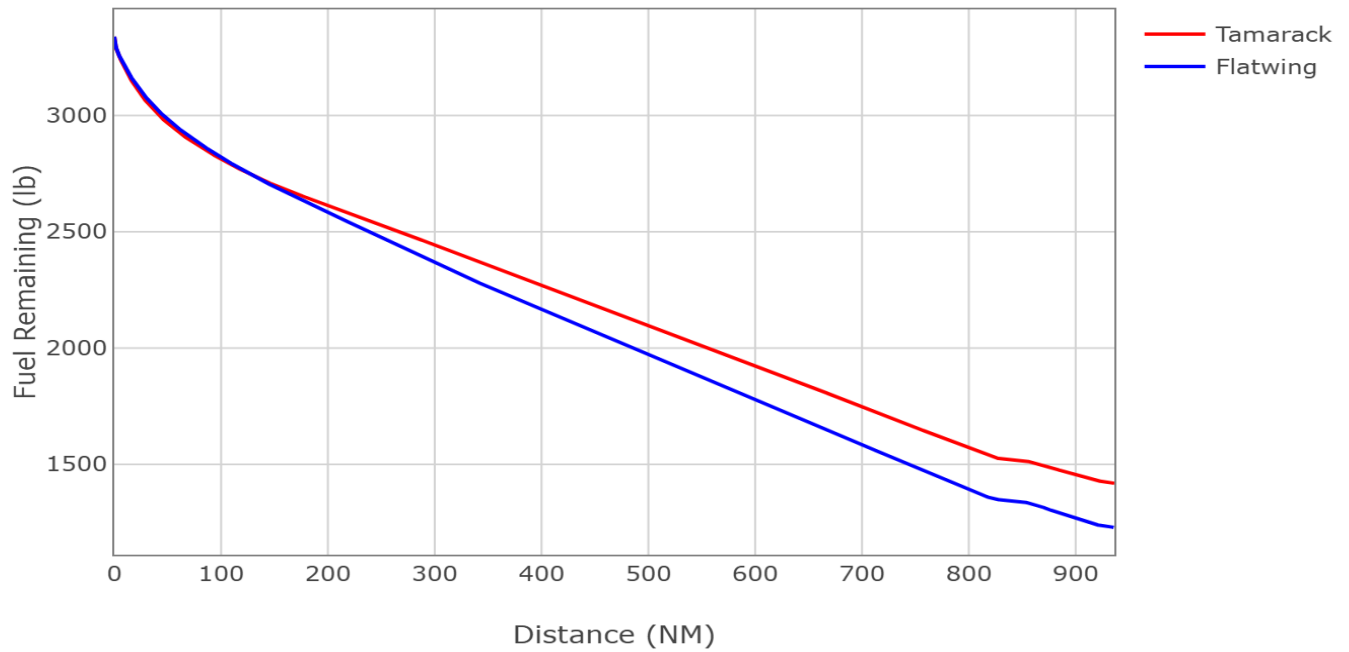
Total Time (min): 183  
Total Dist (NM): 935  
Total Fuel Burned (lb): 2170  
Fuel Remaining (lb): 1169  
V1 Cut: False

## Hourly Fuel Burn (lb)

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

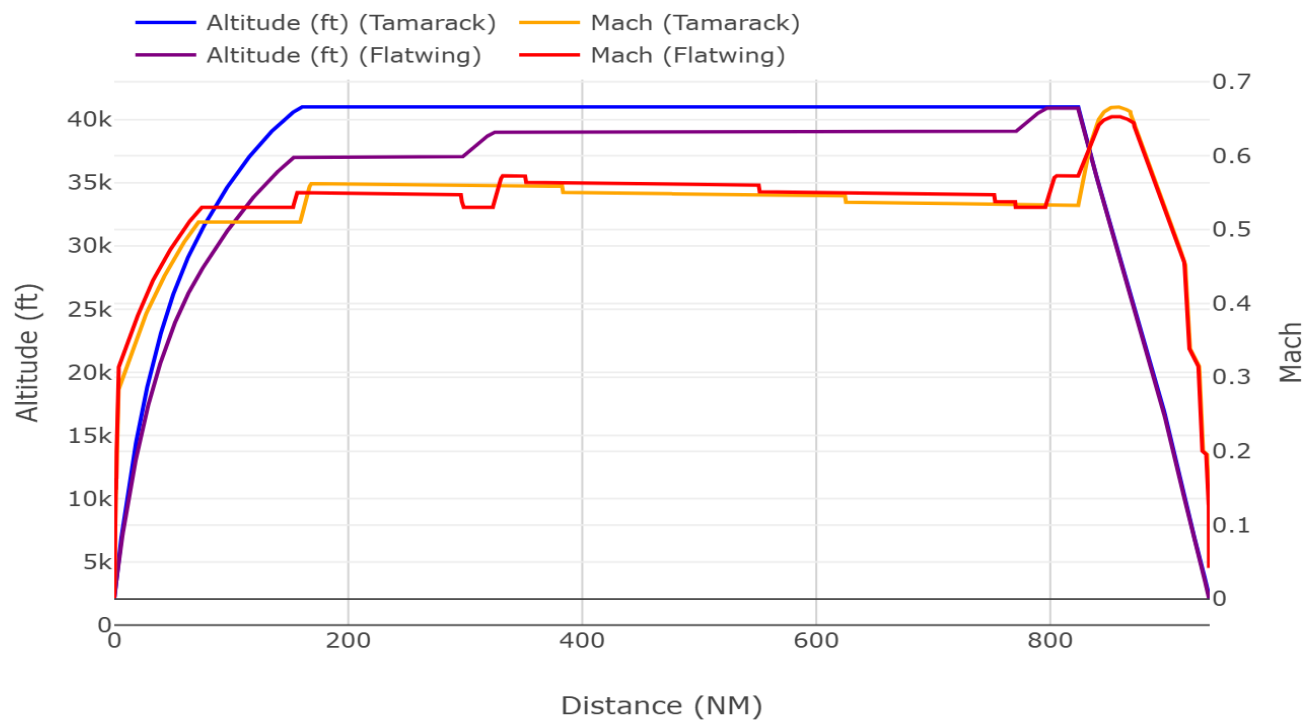
## Fuel Remaining vs. Distance

Fuel Remaining vs Distance - Comparison

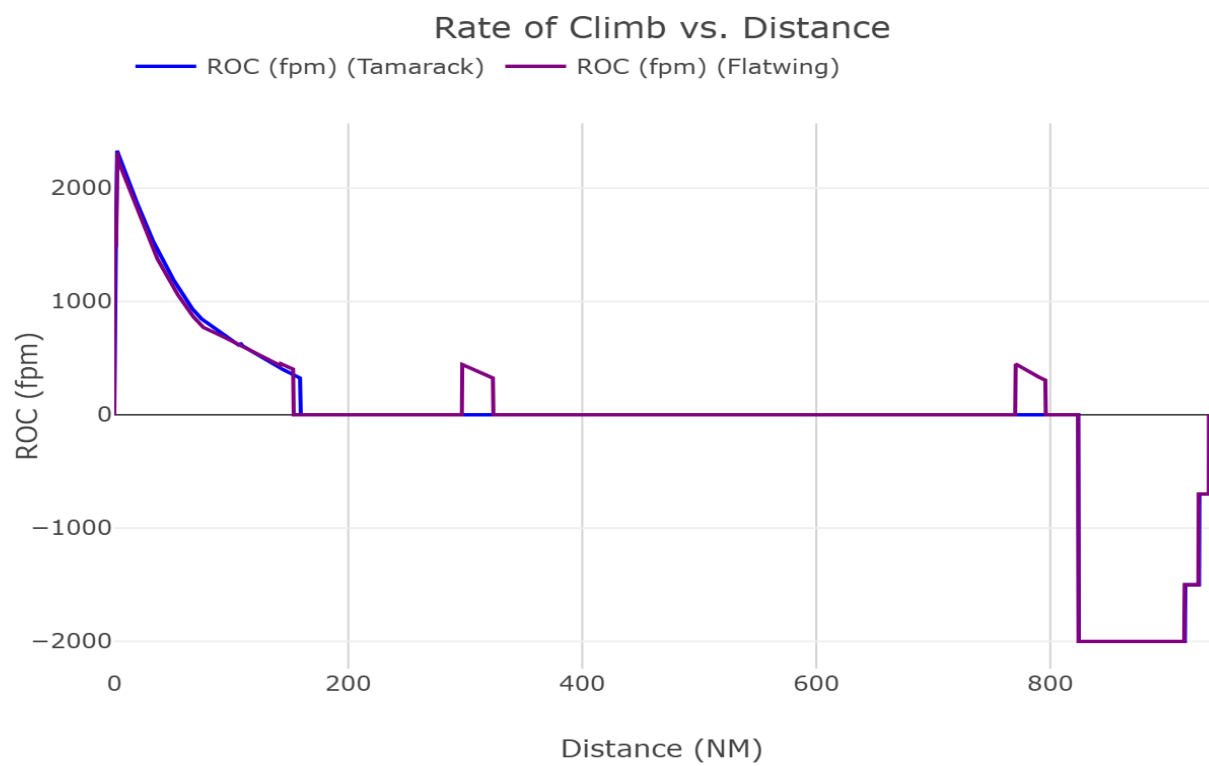


## Altitude and Mach vs. Distance

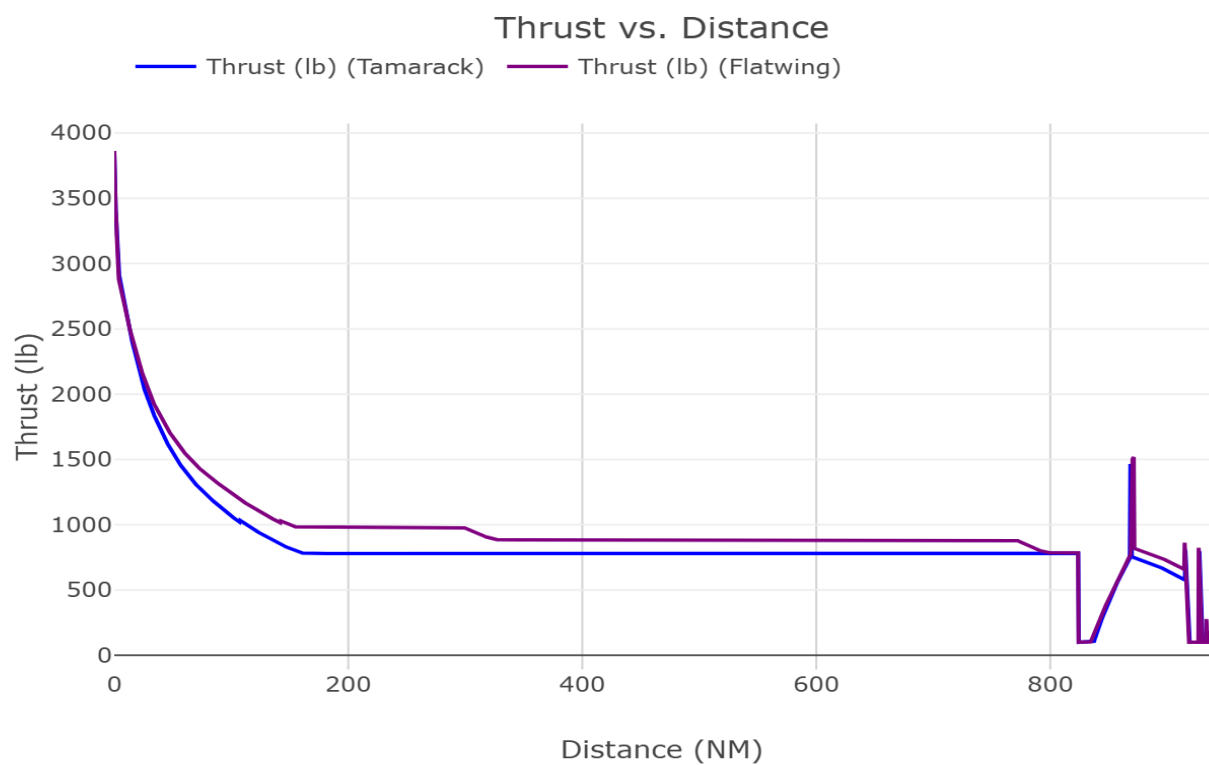
Altitude and Mach vs. Distance



Rate of Climb vs. Distance



Thrust vs. Distance



Drag vs. Distance

