
From: James Hammond
Sent: Friday, December 16, 2022 6:08 PM
To: hab@scienceheads.org
Subject: [hab] HAB8 - WCOM - Weather and Flight Forecast - D-1

Hello HAB8 volunteers,

Here is your WCOM report for T-1 Days from launch.

Compliance:

So Cal TRACON has confirmed our instructions for the flight. We have no issues at this time. A NOTAM, #ELB12/058 has been filed with Leidos AFSS for 0900-1400 tomorrow.

Weather

Weather forecasts are expected to be final. We are likely looking at a cloudy day, with little chance of rain. **The cloud cover may be a problem, because we are now forecast to be significantly above 50% cloud cover.** Cloud cover forecast has been unreliable on previous flights, so the launch may still be possible.

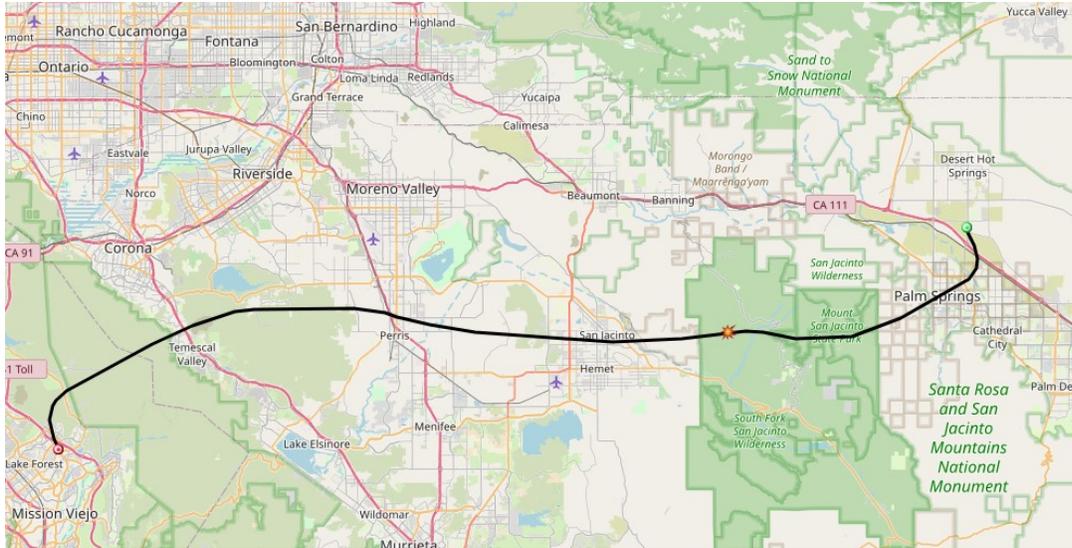
As of today, Weather.com forecasts a cloudy day, with a high temperature of 63F. Nominal launch time of 9am has 54F, 0% chance of rain, and winds from the ENE at 2 mph.

Wunderground.com also predicts a cloudy day with a high of 63F. Launch time (9am) forecast is for 55F, **76% cloud cover**, and surface winds of 2 mph from the NE, building to a peak of 4 mph from the WSW at noon, and chance of rain at 0%.

In case of a scrub of the launch to Sunday, the forecast for Sunday at 9am is 55F, cloud cover at 11%, winds at 1 mph from the E, and 1% chance of rain.

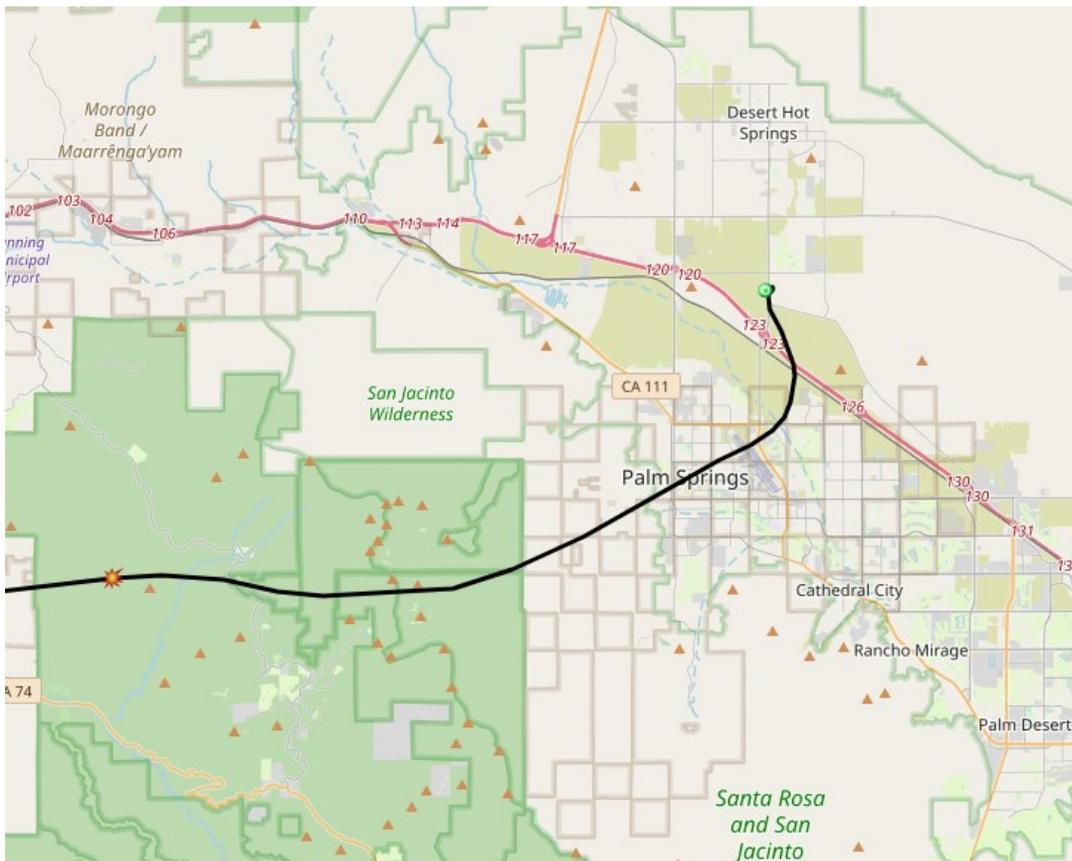
Flight forecasts

Flight predictions are unchanged since the the D-2 prediction yesterday. For a 9am launch, the flight path travels mostly to the ENE, and flights which launch any time from then until noon will follow approximately the same path.

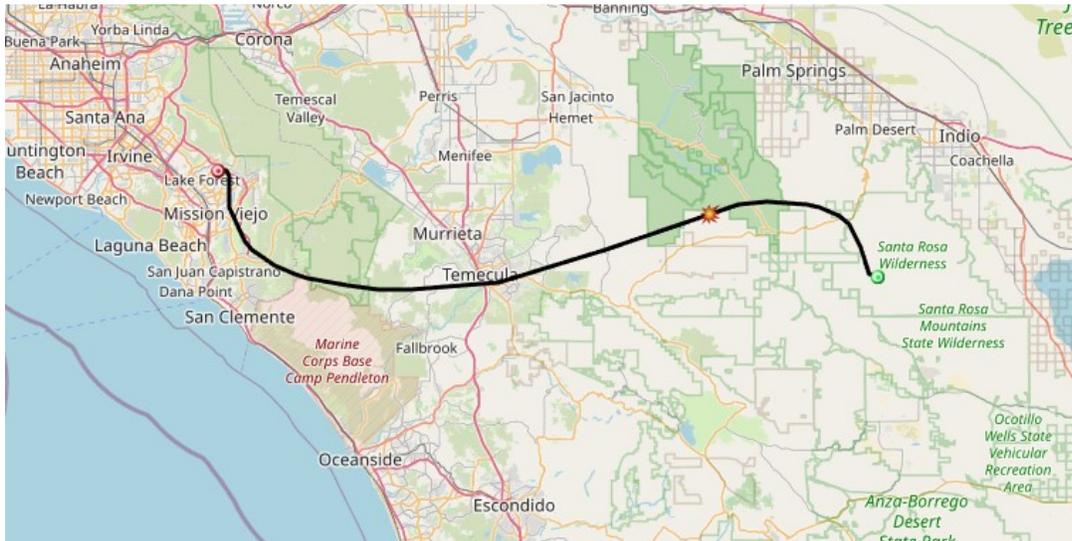


Landing predictions for the final 2333g payload / 6m/s ascent rate (neck lift 5128g, requiring 230 cu ft He) show a burst over Mt San Jacinto State Park, and a landing north of CA 111, between Palm Springs and Desert Hot Springs.

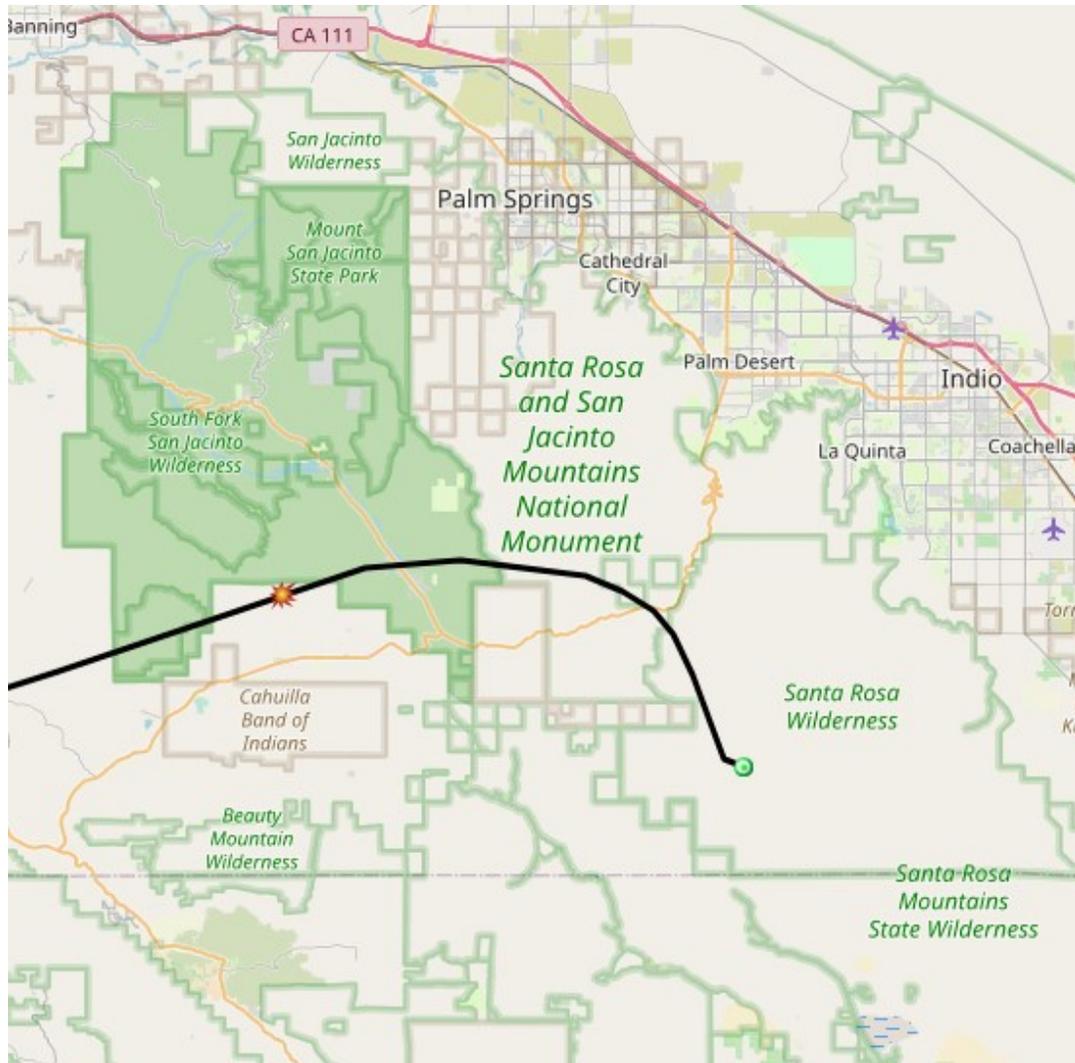
Weather in Palm Springs is forecast to be mostly cloudy and 59F.



Since there is the possibility of a weather scrub on Saturday, with a reattempt on Sunday morning, here is the flight prediction for a Sunday 9am launch:



The landing area is forecast to be south of the Saturday landing projection, out in the Santa Rosa Wilderness, south of Palm Desert, La Quinta, and CA 74.



If the flight goes long, the Salton Sea may come into play. Good flying everyone!

Thank you,
--James Hammond
HAB8 WCOM

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