



REDBIRD **NAVIGATOR**

Training Manual

Operating the Simulator through Navigator:



Users with WiFi-capable devices connect to the **Redbird-Navigator** wireless network.

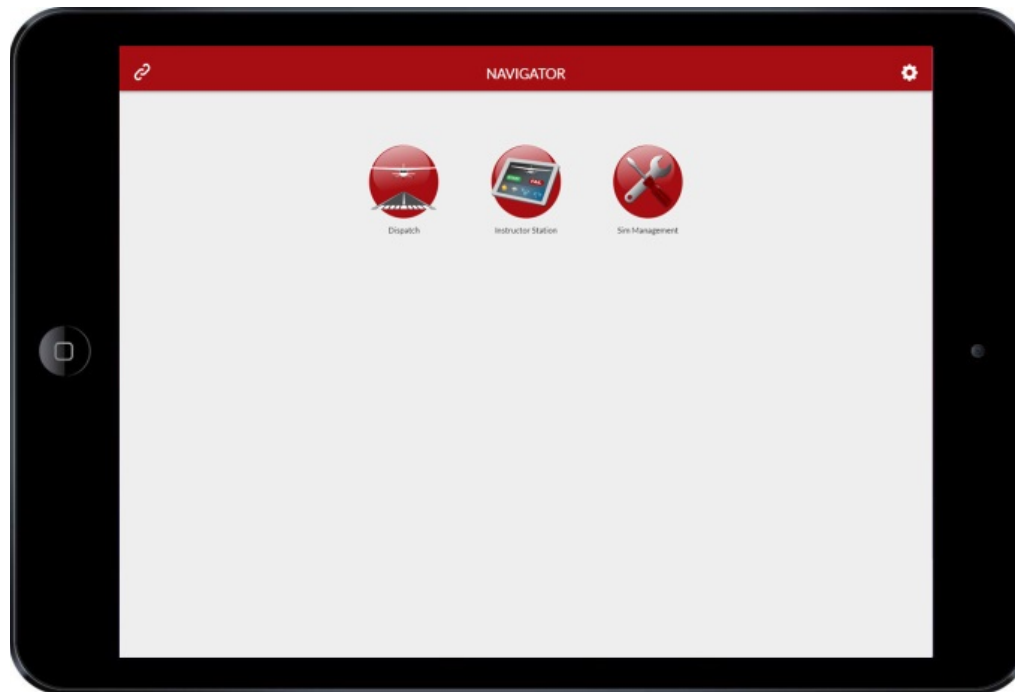
Default Password: **navigator123**



Operating the Simulator through Navigator:

Users then open their device's default web-browser and go to the Navigator website:

Default Address: sim.redbirdflight.com



Navigator v1.0 includes three Applications:



Dispatch



Instructor Station



Sim Management

In **Dispatch**, users can launch saved flights/missions, or load custom Free Flights with user-defined variables.

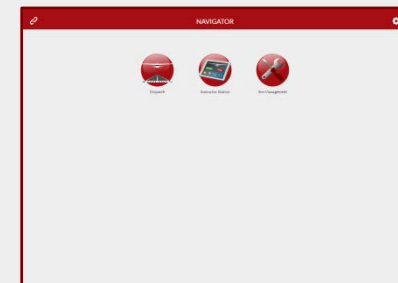
The **Instructor Station** allows users to relocate the aircraft, induce simulated failures, change weather settings, and more.

In **Sim Management**, users can change Navigator's default settings, check on hardware status, and see which versions of software are installed on the Simulator.

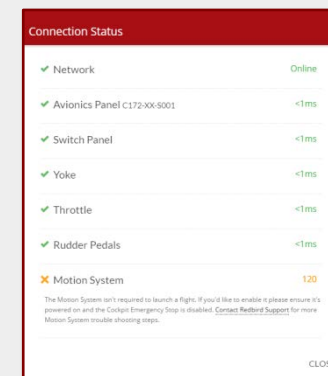
Navigator User Interface - Basics:



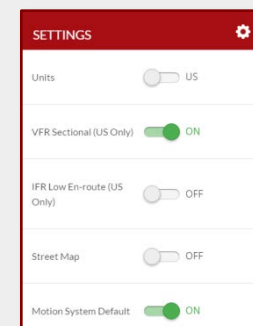
The **Switch App** icon in the top left corner brings users back to the Navigator home-page so they can switch between apps.



The **Connection Status** icon in the top left corner gives users a quick way to check the status of their simulator's hardware.



The **Settings** icon in the top right corner gives users the ability to change basic simulator settings.





Library



Free Flight

Search



Dispatch



Free Flight

SAVED FLIGHT

Learning your Airplane

"Beautiful weather at San Marcos Regional Airport (KHYI) and a great day for getting to know

SAVED FLIGHT

Discovery Flight

"Clear skies over San Marcos Regional Airport (KHYI) and a great day for a discovery flight. The

SAVED FLIGHT

Flying Cross-Country

"Good weather at San Marcos Regional Airport (KHYI) and a great day for a cross country to

SAVED FLIGHT

Preparing for Solo Flight

"Good weather at San Marcos Regional Airport (KHYI) and ideal conditions for honing your skills

SAVED FLIGHT

Emergency Instrument Skills

"The weather at San Marcos Regional Airport (KHYI) is calm but overcast, a great day for

SAVED FLIGHT

Improving Control

"Good weather at San Marcos Regional Airport (KHYI) and ideal conditions for improving your

SAVED FLIGHT

Takeoffs and Landings

"Good weather at San Marcos Regional Airport (KHYI) and a great day for developing your

SAVED FLIGHT

Flying at Night

"Good weather at San Marcos Regional Airport (KHYI) and a great night for a learning night

Flights/missions that have been saved on your Simulator are displayed in the [Library](#).



Library



Free Flight

Search



SAVED FLIGHT

Learning your Airplane

"Beautiful weather at San Marcos Regional Airport (KHYI) and a great day for getting to know

SAVED FLIGHT

Discovery Flight

"Clear skies over San Marcos Regional Airport (KHYI) and a great day for a discovery flight. The

SAVED FLIGHT

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SAVED FLIGHT

Flying at Night

"Good weather at San Marcos Regional Airport (KHYI) and a great night for a learning night

Users can search for flights, and as you type the library will narrow down the results.



Library



Free Flight

Search

SAVED FLIGHT

Learning your A
"Beautiful weather at San M
Airport (KHYI) and a great d

SAVED FLIGHT

Preparing for Sc
"Good weather at San Marc
(KHYI) and ideal conditions

SAVED FLIGHT

Takeoffs and Lan
"Good weather at San Marc
(KHYI) and a great day for d

Confirm Flight Start

FLIGHT

Discovery Flight

"Clear skies over San Marcos Regional Airport (KHYI) and a great day for a discovery flight. The winds are calm, the skies are mostly clear, and you're ready for takeoff on runway 35."

AIRCRAFT

C172-XX-S001

OPTIONS

Motion System



ON

and allows the user to select which options to start with.

CANCEL

START FLIGHT

When a flight is selected, Dispatch shows you the flight's description,

displays the name of the aircraft that is currently on the system,

Side-note:

Flights/Missions are no longer aircraft-specific; Dispatch will adapt flights to work with the aircraft that's currently installed on the system.



Library

LOCATION

CLEAR

WIND

VISIBILITY

CLOUDS & PRECIP

TIME

OVERVIEW

000 at 0kt 10sm SKC
Day

START FLIGHT

LOCATION

Enter Airport or Navaid IDENT

CLEAR

Enter an Ident to search for a reposition point

The **Free Flight** section of Dispatch allows users to load flights dynamically:



Library



Free Flight

LOCATION



CLEAR

WIND

VISIBILITY

CLOUDS & PRECIP

TIME

OVERVIEW

000 at 0kt 10sm SKC
Day

START FLIGHT

LOCATION

Enter Airport or Navaid IDENT

KHYI

CLEAR

KHYI: San Marcos Mun
Airport

Search for the desired starting location,



Library



Free Flight

LOCATION

CLEAR

WIND

VISIBILITY

CLOUDS & PRECIP

TIME

OVERVIEW

KHYI

000 at 0kt 10sm SKC

Day

START FLIGHT

LOCATION

KHYI

CLEAR

select whether to start on the ground,

ON GROUND

IN AIR

RWY 13

RWY 8

RWY 17

RWY 31

RWY 26

RWY 35



Library



Free Flight

LOCATION

CLEAR

WIND

VISIBILITY

CLOUDS & PRECIP

TIME

OVERVIEW

15 nm from KHYI R075
HDG: 075 | ALT: 5,000 MSL | IAS: 100 kt
000 at 0kt 10sm SKC
Day

START FLIGHT

LOCATION

15 nm from KHYI R075

HDG: 075 | ALT: 5,000 MSL | IAS: 100 kt

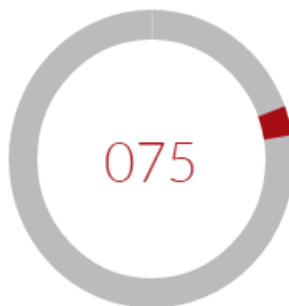
CLEAR

or in the air.

ON GROUND

IN AIR

Radial From



Distance From: 15 nm



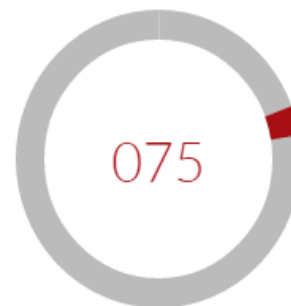
Altitude: 5,000 MSL



Airspeed: 100 kt



Heading





Library



Free Flight

LOCATION

WIND



VISIBILITY

CLOUDS & PRECIP

TIME

OVERVIEW

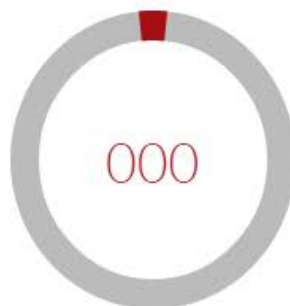
15 nm from KHYI R075
HDG: 075 | ALT: 5,000 MSL | IAS: 100 kt
000 at 0 kt 10sm SKC
Day

START FLIGHT

WIND

000° AT 0 KT

Direction



Speed: 0 kt



Gusting to:



Input desired wind speed and direction,



Library



Free Flight

LOCATION

WIND

VISIBILITY



CLOUDS & PRECIP

TIME

OVERVIEW

15 nm from KHYI R075
HDG: 075 | ALT: 5,000 MSL | IAS: 100 kt
000 at 0kt 10sm SKC
Day

START FLIGHT

VISIBILITY

Distance: 10 sm



level of visibility,



Library



Free Flight

LOCATION

WIND

VISIBILITY

CLOUDS & PRECIP 

TIME

OVERVIEW

15 nm from KHYI R075
HDG: 075 | ALT: 5,000 MSL | IAS: 100 kt
000 at 0kt 10sm SKC
Day

START FLIGHT

CLOUDS & PRECIPITATION

Cloud Coverage: Clear (0/8)



Cloud Base: 4,281 MSL (3,684 AGL)



Precipitation Type

NONE

RAIN

SNOW

Precipitation Rate: None



add clouds and precipitation,



Library



Free Flight

LOCATION

WIND

VISIBILITY

CLOUDS & PRECIP

TIME



OVERVIEW

15 nm from KHYI R075
HDG: 075 | ALT: 5,000 MSL | IAS: 100 kt
000 at 0kt 10sm SKC
Day

START FLIGHT

TIME

DAY

NIGHT

DAWN

DUSK

and set the starting time.



Library



Free Flight

LOCATION

WIND

VISIBILITY

CLOUDS & PRECIP

TIME

OVERVIEW

15 nm from KHYI R075
HDG: 075 | ALT: 5,000 MSL | IAS: 100 kt
000 at 0kt 10sm SKC
Day

START FLIGHT



TIME

Confirm Flight Start

FREE FLIGHT DETAILS

CHANGE FLIGHT DETAILS

15 nm from KHYI R075
HDG: 075 | ALT: 5,000 MSL | IAS: 100 kt
000 at 0kt 10sm SKC
Day

AIRCRAFT

C172-XX-S001

OPTIONS

Motion System



ON

When START FLIGHT is selected,
Dispatch will load a flight with the
selected variables.

CANCEL

START FLIGHT



Instructor Station



Weather



Position



Failures



Fuel/W&B



Time



INSTRUCTOR STATION



The Instructor Station app allows users to interact with the simulator when a flight is running:

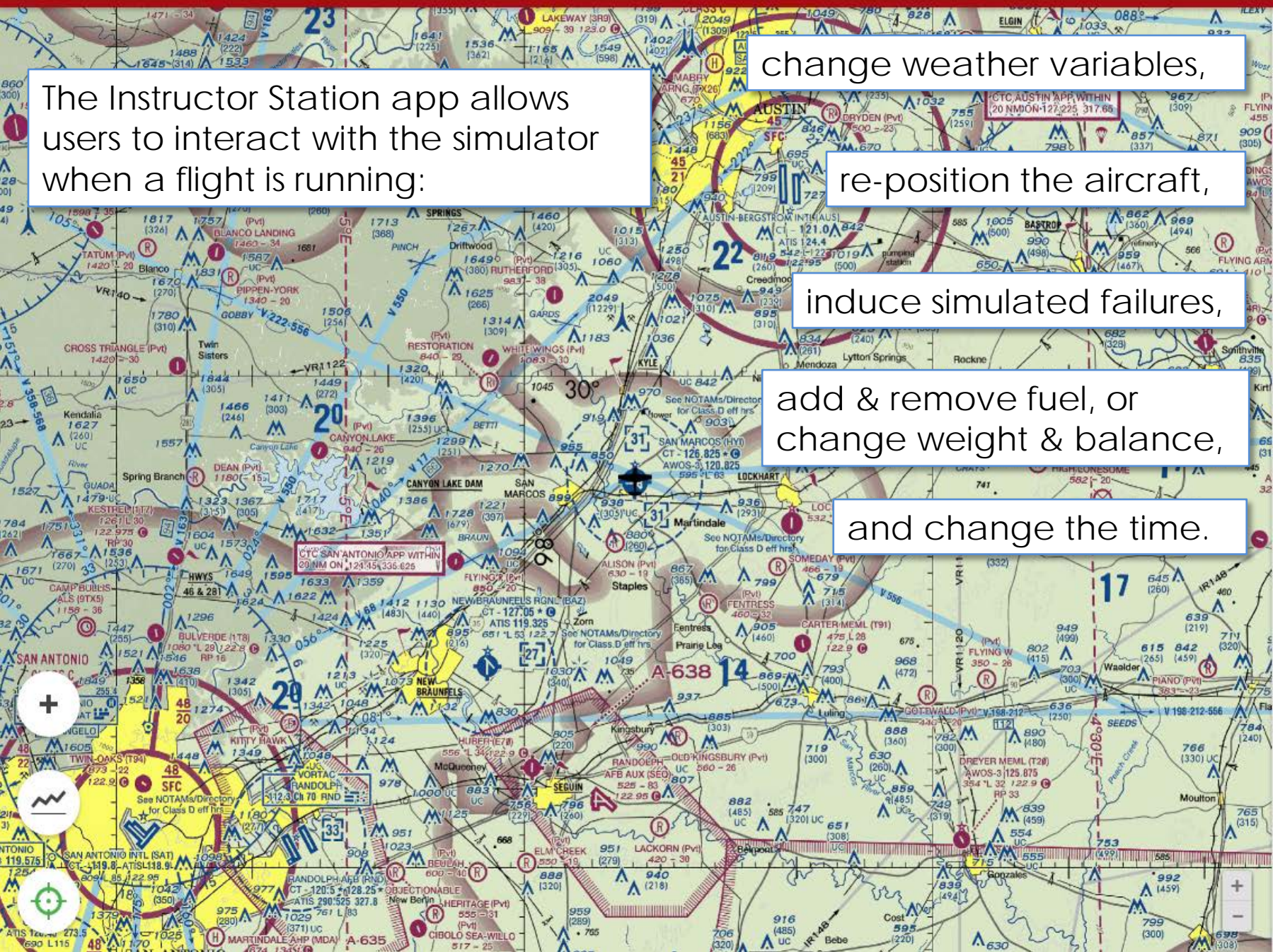
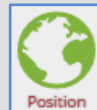
change weather variables,

re-position the aircraft,

induce simulated failures,

add & remove fuel, or
change weight & balance,

and change the time.





The Extras menu bar has Start/Pause and End flight buttons.



The Vertical Track button opens the Vertical Track bar.



The Center Map button centers the map on your aircraft.



BASIC WX



Wind
000° at 0 kt

Weather Theme
None

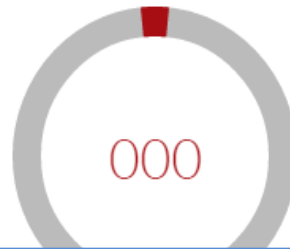
ADVANCED WX

APPLY CHANGES

CLEAR ALL

or choose from a
set of pre-
configured
weather themes.

Direction



Speed: 0 kt



Gusting to:



Turbulence: None



In Basic Weather,
Users can change
surface winds,

Basic Conditions

CLEAR

VFR

M-VFR

IFR

L-IFR

CAT-I

VFR Conditions

SCATTERED

RAIN SHOWERS

POP-UP TS

SNOW SHOWERS

IFR Conditions

HEAVY RAIN

EMBEDDED TS

WINTRY MIX

NORTH POLE





BASIC WX

ADVANCED WX



SURFACE

Temp & Pressure
15°/5° | 29.92 inHg

Surface Visibility
30sm
Surface to 100 MSL

Surface Wind
000° at 0 kt
Surface to 010 MSL

VISIBILITY

WINDS

CLOUDS

APPLY CHANGES

CLEAR ALL

OVERVIEW

METAR: 0000KT 30SM SCT172 15/05 A2992

Temp & Pressure: 15°/5° | 29.92 inHg

EDIT

In Advanced Weather, users can manually change temp & pressure,

Surface Visibility: 30 sm | Surface to 100 MSL

EDIT

add/remove individual layers of visibility,

Surface Wind: 000° at 0 kt | Surface to 010 MSL

EDIT

Turbulence: None
Wind Shear: Gradual

wind layers,

Winds Aloft 1 034° at 6G 17 kt | 010 to 020 MSL

EDIT

Turbulence: Light
Wind Shear: Moderate

Cloud Layer 1 Scattered (3/8) at 172 MSL

EDIT

Turbulence: Moderate
Precipitation: LightRain

and cloud layers.



Weather



Position



Failures



Fuel/W&B



Time



AIRPORT



NAVAID

LATITUDE/LONGITUDE

SELECTED

CLEAR

No Point Selected

REPOSITION

Enter Airport IDENT

CLEAR

50R: Lockhart Mun
Lockhart, Texas United States

KBAZ: New Braunfels Mun
New Braunfels, Texas United States

KAUS: Austin Bergstrom Intl
Austin, Texas United States

KHYI: San Marcos Mun
San Marcos, Texas United States

KSAT: San Antonio Intl
San Antonio, Texas United States

OTE7: Johnson City
Johnson City, Texas United States

TS76: Redstone Ranch
Stonewall, Texas United States

KATT: Mueller Mun
Austin, Texas United States

3R9: Lakeway
Austin, Texas United States

TX05: Dryden
Austin, Texas United States

In the **Position** menu,
users can reposition
the aircraft via an
airport identifier,



Weather



Position



Failures



Fuel/W&B



Time



AIRPORT

NAVAID



LATITUDE/LONGITUDE

SELECTED

CLEAR

No Point Selected

REPOSITION

Enter Navaid IDENT

CLEAR

Enter an Ident to search for a reposition point

a NavAid,



Weather



Position



Failures



Fuel/W&B



Time



AIRPORT

NAVAID

LATITUDE/LONGITUDE



SELECTED

CLEAR

Reference

REPOSITION

Latitude

29.8936834931374

Longitude

-97.8647638857365

CLEAR

Radial From



Distance From: 15 nm



Altitude: 5,000 MSL



Airspeed: 100 kt



Heading



or to a set of Lat./Long. coordinates.



Weather



Position



Failures



Fuel/W&B



Time

Using the Settings menu, users can choose from several map overlays such as: VFR Sectionals,

Units ☐ US

VFR Sectional (US Only) ☒ ON

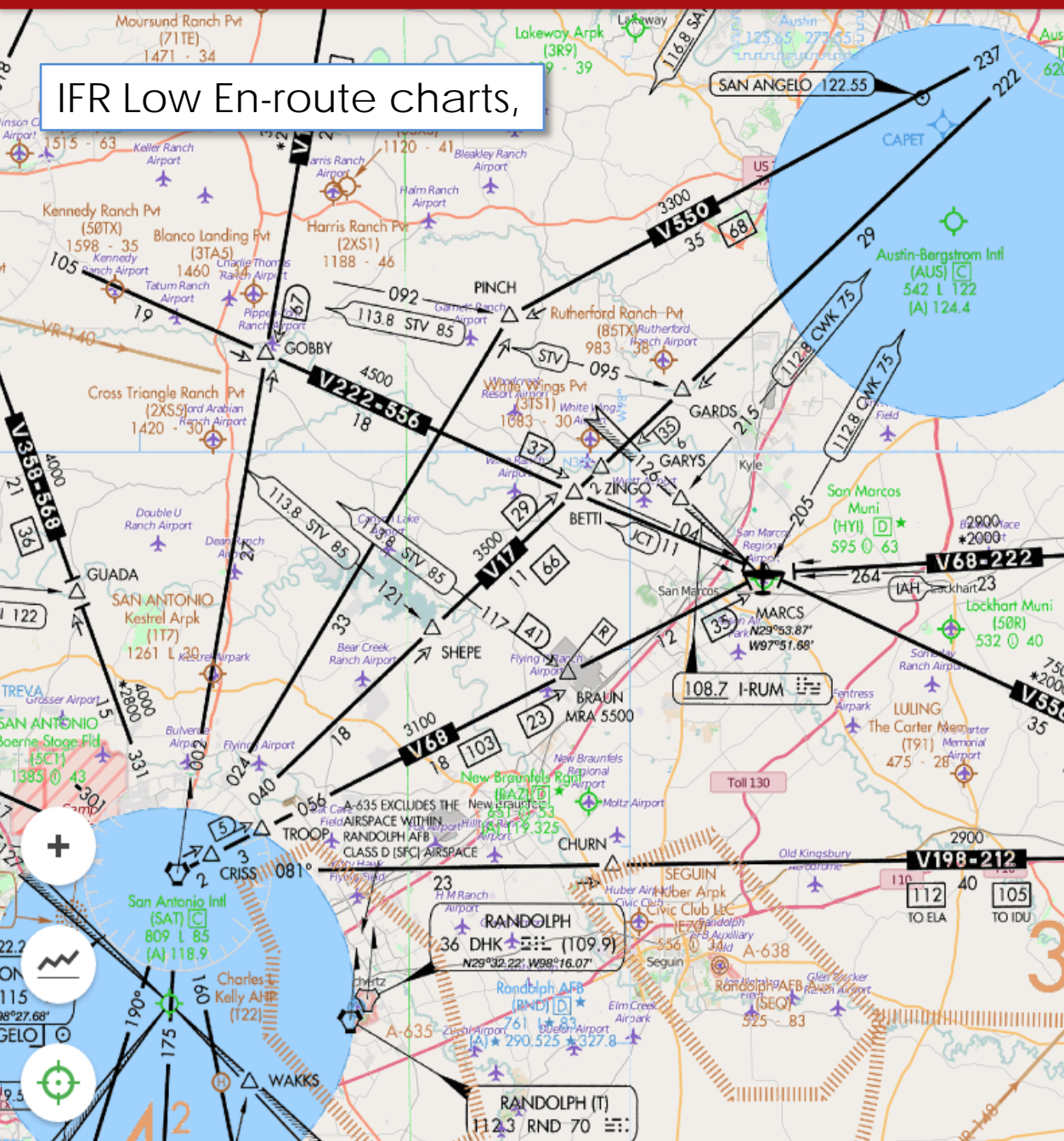
IFR Low En-route (US Only) ☐ OFF

Street Map ☐ OFF

Motion System Default ☒ ON



IFR Low En-route charts,



Units



US

VFR Sectional (US Only)



OFF

IFR Low En-route (US Only)



ON

Street Map



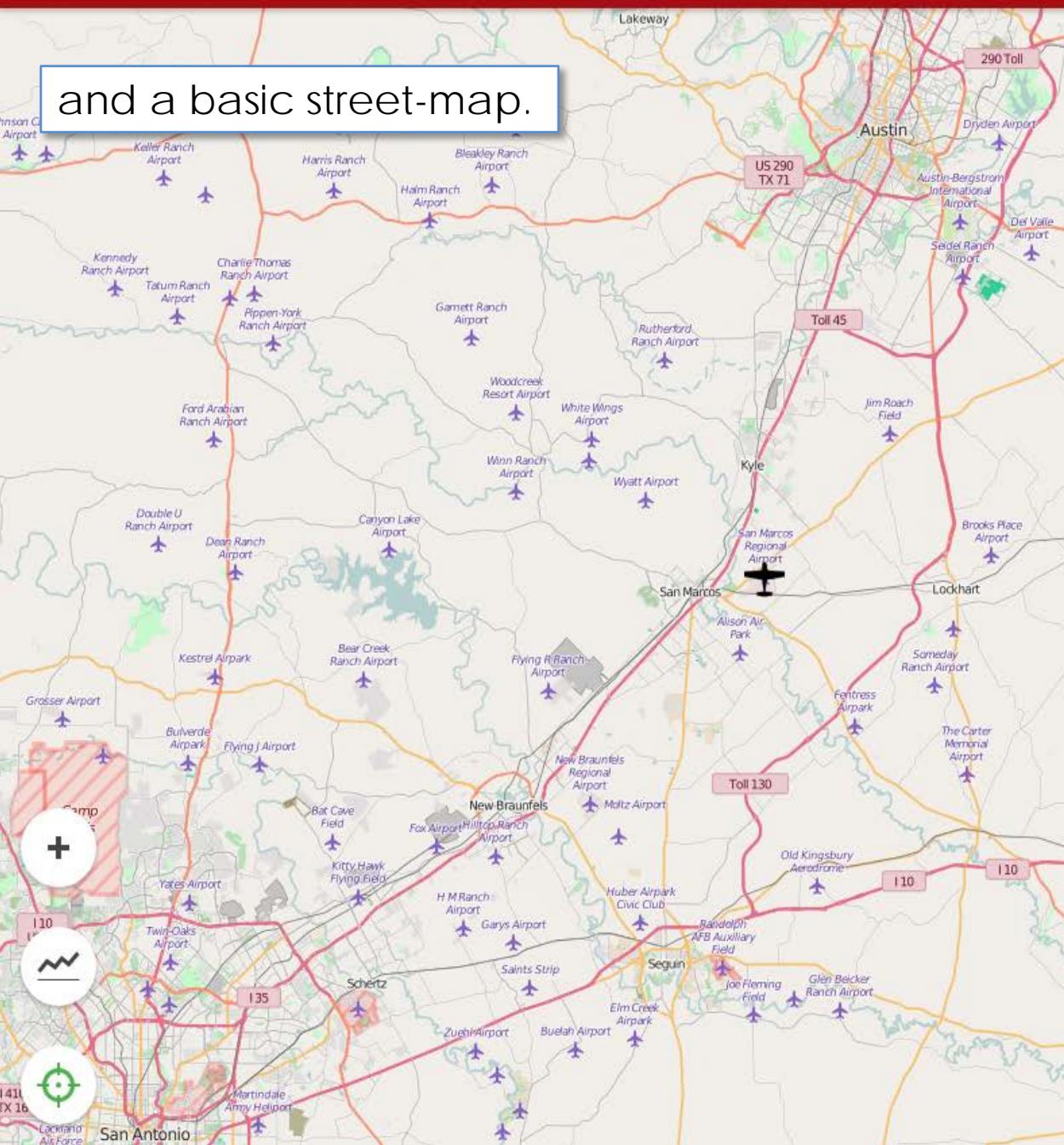
OFF

Motion System Default



ON

and a basic street-map.



Units ☐ US

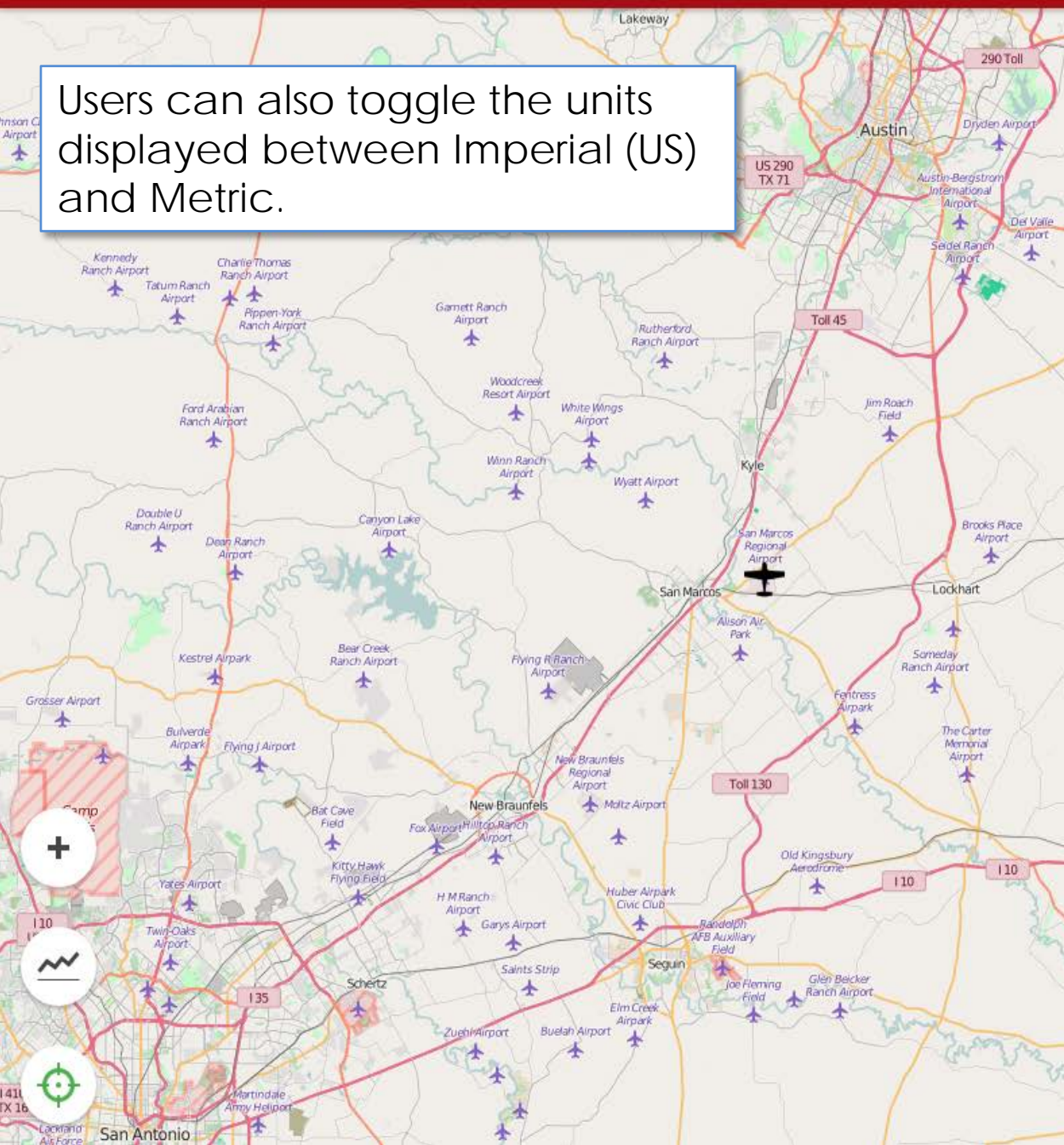
VFR Sectional (US Only) ☐ OFF

IFR Low En-route (US Only) ☐ OFF

Street Map ☒ ON

Motion System Default ☒ ON

Users can also toggle the units displayed between Imperial (US) and Metric.



Units

 METRIC

VFR Sectional (US Only)

 OFF

IFR Low En-route (US Only)

 OFF

Street Map

 ON

Motion System Default

 ON

[Simulator Status](#)[Contact Support](#)

Sim Management

Simulator Status

Contact Support

Overview

Hobbs Time	1000.0 hours
Serial Number	FMX0999
Location	Redbird Skyport
RB-Core	V28.00.081315
Navigator	V1.0
RealNav	Pro-4

The **Simulator Status** page shows the Simulator's Hobbs time, serial number, and which software versions are installed.

Simulator Status

Contact Support

Contact Support

Your First Name

John



Your Last Name

Doe



Your Email

jdoe@redbirdflight.com



Your Phone

(512) 301-0718



Please Describe the Issue

Squawk



OPEN CASE

The **Contact Support** page allows users to send squawks to Redbird Support directly through Navigator.



REDBIRD NAVIGATOR

For Service and Support please contact:
Redbird Support
support@redbirdflight.com - (512) 301-0718

For Sales and Marketing please contact:
Redbird Sales
info@redbirdflight.com - (512) 301-0718

For corrections, comments, and compliments about this manual please contact:
Duncan Powling
dpowling@redbirdflight.com