Stratus Insight Pilot's Guide



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Getting Started

To use Stratus Insight, create an account and choose a subscription or log into an existing account.

When first opening Stratus Insight, you will be prompted to allow the app to access your location. Enable this option to show your current aircraft position on the moving map and use portable TAWS. To allow access later, navigate to your iPhone or iPad Settings \rightarrow Privacy \rightarrow Location Services and tap Stratus Insight.

The buttons in the header at the top of the screen take you to the following features:

	Base maps		Track recording
\bigotimes	Map overlays	$[\uparrow]$	Brief or file flight plan
FPL	Flight plan route editor	+	Add PIREP
\bigcirc	Show current GPS position or track up		Synthetic vision
ı∥ı	Radio Transcription		Favorite and recent flights
$\hat{\mathbf{A}}$	Vertical Weather Profile	$\overline{\Delta}$	Terrain profile
		90	Settings

If your device has a smaller screen and you do not see the full list of icons, tap the three dots ••• to see them.



Using Aircraft Profiles

Stratus Insight needs to know your aircraft speed and flight characteristics to make the most of your flight planning. Create an aircraft profile to save this information.

Creating a New Aircraft Profile

- 1. Tap Aircraft on the bottom navigation bar, then tap the add aircraft \downarrow button.
- 2. Fill out all of the information to complete your aircraft profile. For more information on performance tables, refer to the next section.

NOTE: You must enter a valid ICAO identifier. If you're not sure what your aircraft ICAO type is, use this search tool: <u>http://www.icao.int/publications/DOC8643/Pages/Search.aspx.</u>

<	Aircraft	\otimes
[↓]		
TAIL #		N1234
TAS		650
ICAO TYPE * Must be a IC/	AO type designator.	SR71
Select Perf	ormance Profile	N/A >
A/C EQUIPN	IENT	N/A >
A/C SURVEI	LLANCE	N/A >
WAKE TURE	ULENCE	N/A >
Fuel Units	GPH	РРН

3. Tap the save \int icon.

Editing an Aircraft Profile

Tap **Aircraft** on the bottom navigation bar, then tap **Edit** next to an aircraft.

Creating a Performance Table

Based on your ICAO type, you can import a performance table for your aircraft. Otherwise, create a custom performance table.

For high performance aircraft, creating a performance profile table will give you a top of climb and top of descent marker as well as more accurate enroute times.

- 1. Tap Aircraft on the bottom navigation bar, then tap Edit next to an aircraft.
- 2. At the bottom of the settings window, enable the **Use performance table** switch.
- 3. Tap Manage Performance Table.
- 4. Enter each altitude in which a significant change in performance is expected in your type aircraft. Data automatically saves.

For any gap in altitudes, Stratus Insight will use interpolation to determine intermediate data.

NOTE: some of the data is indicated for cruise and some for climb. Cruise TAS & fuel burn is only calculated after reaching this altitude.



Creating a Flight Plan

Preparing to Create a Flight Plan

Stratus Insight can plan winds and weather up to 8 days in advance, but the closer to the time of departure the more accurate the data becomes. Before creating a flight plan, enter the departure date and time.

1. Tap **FPL** on the top navigation, then tap anywhere in the blue box on the left side.



- 2. Tap **NOW**, or enter a future date and time.
- 3. RECOMMENDED: Enter the amount of Fuel Aboard and select Flight Plan Rules.

Flight Plan 🛞				
GENERAL				
Aircraft	N610PT			
Departure Time NOW	5/26/2020 12:49PM CDT			
Auto Detect Takeoff	Landing			
Altitude 3000	SELECT ALTITUDE/WX			
Fuel Aboard	2580 LB			
FLIGHT PLAN	>			
Rules	VFR IFR			
Departure	KFAR			
Route	KMKC GIVMY KSTL			

TIP: The fuel and flight rules will be saved from flight to flight unless you change them.

Entering a Route with the Search Box

You can enter a route with the search box or the waypoint editor. To use the search box:

- 1. Tap in the search box in the top navigation
- 2. Enter route parameters. You can enter parameters such airport identifiers, waypoint names, VORs, airways, and cruising altitude. See below for route examples.



3. Tap **Go** on the keyboard when the route is complete.

NOTE: Entering a new route will replace an existing route.

Route examples:

KMKC TOP V4 GLD KDEN

- KMKC: Departure airport
- **TOP:** VOR entry point
- V4: Airway
- GLD: VOR exit point
- KDEN: Destination airport

NOTE: It's important to enter entry and exit points on airways.

KMKC TCM/040/20 KDEN

- KMKC: Departure airport
- TCM: VOR
- 040: Radial (degrees) from VOR
- 20: Distance (nautical miles)
- KDEN: Destination airport

KMKC ROYAL7.TONCE.RW19 KDSM

- **KMKC:** Departure airport
- ROYAL7: DP-IDENT
- TONCE: Radial (degrees) from VOR
- RW19: Distance (nautical miles)
- KDSM: Destination airport

KTOP

Entering a single airport identifier in the search box will open the airport information modal. This can be used for quick retrieval of a specific airport information without adding or editing your flight route.

KMKC LEXIN V10 V586 MCM KMBY

- **KMKC:** Departure airport
- **LEXIN:** Entry waypoint (must be on V10)
- V10: Airway
- V586: Airway that intersects with V10
- MCM: Exit VOR waypoint (must be on V586)
- **KMBY:** Destination airport

Entering a Route with the Waypoint Editor

To enter a route with the waypoint editor, follow the steps below.

- 1. Tap **FPL** on the top navigation, then tap \swarrow on the right side (iPad) or tap \bigcirc (iPhone).
- 2. Tap anywhere in the blue box.



3. Begin typing the first airport or identifier, then select it from the list. Otherwise, type the full name and tap the spacebar to enter another waypoint.



4. Continue entering waypoints until your route is complete.

Viewing Waypoint Information

Tap the waypoint \square icon to view individual route segment distances, fuel, time, and headings.

Viewing Recently Filed Routes

Once you've entered a route, tap the recently filed \Im^{\square} icon to view recently cleared ATC routes, TEC, and preferred routes for your flight plan. Tap on a route to use it as your route.

TIP: If the list is empty, try bigger airport city pairs nearby.



Editing Waypoints

Repositioning

Drag and drop a waypoint to reposition it.



Deleting

Drag and drop a waypoint outside of the editing area to delete it.



Reversing Order

Tap $\, \bigtriangledown \,$ to reverse the order of the waypoints.



Other Waypoint Settings

Tap on a waypoint for more settings:

Make Active Leg: Make this the active leg segment of the route.

Delete Waypoint: Delete item.

D->: Add GPS present position direct to waypoint.

Add Waypoint: Add a single waypoint/VOR/airport before or after this item.

Deleting Routes

Tap the trash $\boxed{100}$ icon to delete the entire route.





Using the Smart Flight Plan Tool

If your flight plan must change due to advisories or weather changes, Stratus Insight not only lists alternate airports, but also considers fuel stops and day/night currency in your alternate flight planning. The Smart Flight Plan tool uses advance forecast weather up to 8 days before the time of departure and time enroute.

N610PT	600РРН	Ľ P	KFAR	KEWR ALT		Ľ	₽Ôj
3000'	2580LB	2 ⁷					° L⊓
255Kt	2:17PM	C.					
D: 1,047NM	T: 4h6m (2	Kt T/wind)	F: 4294.1LB	ISA: +7C	🕂 тѕ	<u>()</u> імс (і	

Indicator	Meaning
Airport color indicator	Green: VFR Blue: MVFR Red: IFR Magenta: LIFR
۲	Fuel stop required
ALT	Alternate airport may be required based on the 1, 2, 3 rule.
Moon symbol	
кмсо	Based on the departure or arrival time, night passenger currency may be required.
Sun symbol	Departure or arrival time is close to sunset; use caution for glare.
Caution symbol	Departure or arrival time may present a sun glare hazard based on forecast winds and sky conditions.
Т	Based on route, time of departure, and cruising altitude, somewhere along this point high CAPE and instability in atmosphere may be encountered. Be on alert for thunderstorms across route.
	Based on route, time of departure, and cruising altitude, somewhere along this point ice may be encountered (based on Skew-T sounding saturation levels and temperatures).
(і) імс	Based on route, time of departure, and cruising altitude, somewhere along this point IMC may be encountered (based on Skew-T soundings).
TER	Based on altitude selected, somewhere along the flight the altitude may be very close to terrain.

Using the Altitude Selector Tool

The altitude selector tool will assist you in finding a cruising altitude.

- 1. Tap **FPL** on the top navigation, then tap anywhere in the blue flight plan editor box.
- 2. Tap Select Altitude/WX.
- 3. Select an altitude. The row highlighted in green is the fastest time enroute free of ICE.

Flight	Plan 🛞	<	Flight Plan
GENERAL			
Aircraft	N610PT >		VFR IFR WEST
Departure Time NOW	5/26/2020 12:49PM CDT	• 1,000	1h35m (OKT T/wind) IMC ISA MIN: +3C AVG: +9C MAX: +13C
Auto Detect Takeoff	Landing	• 3,000	1h33m (1KT H/wind) IMC ISA MIN: +3C AVG: +7C MAX: +11C
Altitude 3000	SELECT ALTITUDE/WX	5,000	1h31m (1KT H/wind) IMC ISA MIN: +4C AVG: +8C MAX: +11C
Fuel Aboard	2580 LB	7,000	1h27m (2KT T/wind) ISA MIN: +4C AVG: +9C MAX: +13C
FLIGHT PLAN	>	9,000	1h25m (3KT T/wind) IMC ISA MIN: +6C AVG: +10C MAX: +13C
Rules	VFR IFR	11,000 ECO	1h23m (2KT T/wind) IMC ISA MIN: +10C AVG: +12C MAX: +13(
Departure 	KFAR	• 13,000) 1h21m (2KT T/wind) IMC IC

The circle to the left of the altitude indicates potential hazards.

Circle color	Hazard
Green	Free of IMC/ICE and tailwind
Red	Hazard such as terrain or ice
Blue	Headwind or IMC
No circle	No significant hazard, but no significant tailwind

Favoriting a Flight Plan

To favorite a flight plan, follow the steps below.

- 1. Tap **FPL** on the top navigation, then tap anywhere in the blue flight plan editor box.
- 2. Tap the send flight plan $\Box_{\mathbf{x}}$ icon, then tap Add Favorite.
- 3. Enter a name, then tap **Add favorite**.

To view favorite flights, tap the favorite \prod icon on the top navigation bar.

Filing a Flight Plan

For information on filing a flight plan, see *Filing* on page 44.

Selecting a Base Map

A base map is the default view for the globe. Tap \prod on the top navigation to choose a base map.



Base Map	Description	Data Connection Required?
VFR charts	VFR raster sectional charts from the FAA.	Yes
VFR Charts (offline)	VFR charts that have been downloaded to this device for in-flight use.	No
Vector Map	Stratus Insight data-driven vector based charts for in- flight use. Requires current Vector Base Map databases downloaded from the Download page.	No
IFR Low	Low-altitude raster IFR enroute charts.	Yes
IFR Low (offline)	Downloaded low-altitude IFR charts for in-flight use.	No
IFR High	High altitude raster IFR enroute charts.	Yes
IFR High (offline)	Downloaded high altitude IFR charts for in-flight use.	No
Terrain	Downloaded raster terrain basemap.	No
Street	Online street maps.	Yes
Satellite	Online satellite maps.	Yes

Using Synthetic Vision

Synthetic Vision shows a 3-D picture of terrain and obstacles where you are flying. Tap 🗐 on the top navigation to toggle Synthetic Vision.

Synthetic Vision is optimized with a valid AHRS source. If AHRS data is not provided, the attitude will report level pitch and roll.

IMPORTANT: Synthetic Vision is not a replacement for a primary or suitable backup source of navigation in your airplane. Use this tool for situational awareness only.

Compatible AHRS sources

Cockpit Devices

- Stratus 2, 2i, 2S, 3, 3i
- OpenFlightSolutions FlightBox with AHRS
- iLevil devices
- Dual XPGS190

Simulators

- X-Plane
- Infinite Flight
- MS Flight Simulator/Prepar3D with FSXFlight



Awareness

Here is a great example of Stratus Insight's synthetic vision in-use at Palm Springs. Notice the elevation and airport identifier are clearly identifiable. To the left of the HSI the airport, runway aligned with, runway length, distance to runway, and higher of published visual slope degrees or user set angle. Terrain highlighting is visible in the distance with red = below or near terrain, yellow = within ~1,000' of terrain.

When you're on an approach, magenta highway in the sky boxes are provided for slope alignment. Flying through the boxes will bring you to the center of the runway.



On the right side find the SynVis settings. You may change heading source between GPS track or MAG source. If MAG is selected but none provided to Stratus Insight, GPS track will be used instead. You may also change altitude sources between the internal BARO or GPS altitude sensors, set the glideslope for highway in the sky boxes, and finally the bottom icon will sync the current attitude as 0 degrees pitch, and 0 degrees roll. This is useful to mount a portable AHRS device in any position.

Takeoff & Landing Roll

Once you've crossed the threshold of the runway the distance remaining will be indicated on the left side of the screen along with the runway you're currently on.

Example of obstacles in SynVis. Refer to the Obstacles section on page 86 for description of each obstacle icon.





Using the Vertical Weather Profile

The Vertical Weather Profile previews your route in the vertical slice from departure to destination, so you can see the conditions you'll encounter based on your departure time, aircraft speed, and each intermediate nearby airport. This tool provides information eight days out, although advisories such as AIRMETs and SIGMETs are only available within a few hours of your departure.

Before you use the Vertical Weather Profile, make sure that your route and departure time are accurate. Then, tap on the Vertical Weather Profile $\langle \mu \rangle$ icon in the top navigation.



Radar Imagery

Stratus Insight analyzes dozens of Skew-T (soundings) based on the time your aircraft will cross certain points along your route of flight. If your flight is departing within the next hours Stratus Insight will analyze radar imagery to find nearby precipitation which will be shown as follows:

- Rain = Lower dbZ values and no lightning detected as rain mosaic.
- Thunderstorm = High dbZ values OR lightning detected as thunderstorm mosaic
- Snow = Snow showers detected as snow mosaic
- Freezing Rain = Freezing Rain Detected as FZRN mosaic

The vertical extent to precipitation is the highest detected cloud or if no clouds exist then all altitudes. **It's important to note the precipitation types are those received at the surface**, different precipitation types may be encountered at altitude than depicted.

It's important to understand soundings pick-up clouds very well but it is a forecast and subject to inherent faults in accuracy. In addition, soundings do not do a very good job at picking up cumulus type clouds.

Icing

You may turn on/off various features of the vertical weather tool in the Overlays menu in the Vertical Weather Profile. One item is CIP & FIP (Icing Product). This is the AWC icing model. Stratus Insight shows you the icing charts in the vertical slice based again upon the time of crossing a specific station. The colors are identical to those provided by the AWC.



The colors in the vertical tool may appear just slightly lighter in color as they contain some alpha component to see the cloud layers behind them. For SLD on the vertical tool, solid red is indicated instead of a hatched area. It's important to note if your planned departure time is exceeding the FIP icing model time (18 hours) the absence of icing in the vertical is not an indication icing may not be present. **We recommend looking at the top down map as well as a part of a complete briefing.**



Using the Terrain Profile

The terrain profile shows terrain clearance for your route. To view the terrain profile, tap the terrain profile \overline{A}^{A} icon in the top navigation.

You will see a Terrain Profile at the bottom of the screen showing terrain clearance

Color	Terrain Distance
Green	More than 1000 feet
Yellow	Within 101-1,000 feet of terrain
Red	Within 100 feet of terrain

IMPORTANT: This is based on your cruise altitude and does not account for climb or descent.

To change cruise altitudes, drag the altitude button up or down.

	Terrain Profile	\otimes
Highest Elevation: 10,377'	Clearance: -4,777'	Distance to strike:503NM
<u>5,600'</u>	vn, drag vertically	
кмкс		2013

Using Checklists

Electronic checklists allow you to read, play, and add new checklists.

Import New checklist checklist ÷ \otimes CHECKLIST + Edit 8 checklist Engine Failure on Takeoff Ø Tap to play C Engine Failure in Flight ß Air start Swipe left Cabin Fire in Flight C to delete C **Engine Fire in Flight** P e in Flight Delete

To open checklists, tap **Checklist** on the bottom navigation bar.

Importing Aircraft Checklists

To import a checklist, tap the import \square icon in the upper left corner of the Checklist window. Then, select the checklist library for your aircraft.

TO,

To create a custom checklist, refer to the steps in *Creating Custom Checklists* on page 24.

Engine fire during start

Creating Custom Checklists

Custom checklists can be uploaded from a CSV file through the Stratus Insight website or Stratus Insight app.

To manually add a custom checklist, refer to the steps in *Manually Adding and Editing Checklists* on page 25

Uploading using the Stratus Insight website

- 1. Log into your <u>Stratus Insight account</u>.
- 2. Click Flights, then click Upload Checklist.
- 3. Click **Download Checklist Import Template** to download the template, if you haven't already. Fill out the template and save it to your computer.
- 4. Enter a checklist name and drag the completed CSV template into the area indicated on the screen. The content will sync with the app within a couple minutes.

Uploading using the Stratus Insight app

- 1. Locate the CSV log file from your email or a file manager (such as Dropbox or Google Drive).
- 2. Tap the file, then tap the up arrow in the upper right corner.
- 3. Tap **Copy to Stratus Insight** (you might have to swipe left to locate it). The Stratus Insight app will open.
- 4. Tap **Import Now**. When the import is complete, tap **X** in the upper right corner.

Manually Adding and Editing Checklists

- 1. Tap the add + icon in the upper right corner of the Checklist window to manually add a new checklist. Tap next to a checklist to edit it.
 2. Enter a name and select a category for the checklist item.
- 3. Type the checklist text. Insert commas to add a delay in speech.
- 4. Select the amount of time after the checklist item.
- 5. Tap the save \int icon to add it to the list.

Name					
	< ::	CHECKLIST		\otimes	
	Engine Failure on	n Takeoff			
×	EMERGENCY	NORMAL	ABNOR	MAL	
Category					
Add to list —	Delay after item: : Pause	3 seconds	3	0 sec	Checklist text
	1 Best Glide or L	.anding speed,,,,,,,E	STABLISH	2 secs	
	2 Mixture,,C	CUT-OFF		2 secs	
	Fuel Selector,,	,,,,,,,OFF		2 secs	
:	n Switch,,,,,,,,OFF		2 secs	Delete	*
	5 Flaps,,,,,,A	AS REQUIRED		^{2 secs}	Swipe left to delete

Playing a Checklist

Tap on a checklist, then tap the play icon to play it.



Using the Logbook

Tap **Logbook** on the bottom navigation bar to use the logbook feature.

Adding Logbook Entries

Uploading Logbook Entries

Automatic Uploading

If the auto detect take-off and landing setting is enabled, flights will appear in the upper left section of the Logbook page. After five hours, they will automatically upload into the logbook. To upload an entry sooner, tap on a logbook entry, then tap **Add to Logbook** to upload it.

Manually Uploading

Flight logs can be uploaded from a CSV file through the Stratus Insight website or Stratus Insight app. Supported formats include:

- ForeFlight CSV export (app upload only)
- Stratus Insight CSV template (tap ψ_1 to download template)
- Garmin G-1000 (website upload only)
- Avidyne PFD logs (website upload only)

Uploading using the Stratus Insight website

- 1. Log into your Stratus Insight account.
- 2. Click Flights, then click Bulk Log Import or Upload Flight/Engine Logs.
- 3. Upload the CSV log file.

Uploading using the Stratus Insight app

- 1. Locate the CSV log file from your email or a file manager (such as Dropbox or Google Drive).
- 2. Tap the file, then tap the up arrow in the upper right corner.
- 3. Tap **Copy to Stratus Insight** (you might have to swipe left to locate it). The Stratus Insight app will open.
- 4. Tap **Import Now**. When the import is complete, tap **X** in the upper right corner.

Manually Entering Logbook Entries

Flight logs can also be entered manually without a CSV file through the Stratus Insight website or Stratus Insight app.

Entering using the Stratus Insight website

- 1. Log into your <u>Stratus Insight account</u>.
- 2. Click Flights, then click Add Log Entry.
- 3. Enter the flight information, then click Save Flight.

Entering using the Stratus Insight app

- 1. Press (+) in the upper left corner of the Logbook page.
- 2. Enter the flight information, then tap **Save**.

TIP: Tap **Use** XXX to populate fields with data from your aircraft profile.

Merging a Track Log to Another Log Entry

- 1. Tap **>** next to the flight you want to merge. Then, tap **Merge Flight Track To Another Log Entry**.
- 2. Tap the flight that you want to combine with. Then, tap **Yes, Merge**.

Customizing Graph View

- 1. Tap $\bigoplus_{i=1}^{n}$ in the top left corner of the Logbook page.
- 2. Under **Graph Options**, select which flight types should show in the graph. You can select more than one option.

Viewing the Flight Map

The map in the bottom left corner shows all of your logbook flights.

To only display the takeoff and landing locations and not the flight route, disable the **Show Flight Routes** switch in the logbook settings.

Adding Endorsements

To have a Certified Flight Instructor endorse your logbook, use the Endorsements feature.

- 1. Tap in the upper left corner of the Logbook page. Then, tap **Add Endorsement**.
- 2. Have the instructor fill out the endorsement information. Then, tap **Save**.

Replaying Track Logs

Tap **>** next to the flight you want to replay. Tap **Download Flight Track**, if you haven't already. Then, tap **Open Flight Track**. The Maps page will open to replay the flight.

Exporting Logbook Entries

Tap $\Box_{\mathbf{c}}$ in the upper left corner of the Logbook page to export a logbook entry into one of the following formats:

- FAA Form 8710 (PDF)
- Logbook Full (PDF)
- Logbook Consolidated (PDF)
- Logbook Full (CSV)
- Business Use Report

Using Favorite & Recent Flights

Viewing Favorite and Recent Flights

The Favorite & Recent Flights window shows recently created routes. Tap the recent flights \Box icon to view them.

Tap on a recent route to replace your current flight plan.

Renaming and Deleting Favorite Flights

- Renaming: Tap on a flight, then tap Rename favorite to rename it.
- **Deleting:** Swipe left on a flight to delete it.

Using the Notepad

Tap Notepad on the bottom navigation bar to access the notepad.

Draw FD>KSTJ 46 14 - 8,000 @ 17m 啬 當 9-·IIIA ÷

Adding a New Note

- 1. Tap + in the upper right corner.
- 2. Draw your note.
- 3. Tap **Close** to save your note.

Deleting a Note

- 1. Tap **Edit** in the upper left corner.
- 2. Check the box next to the note you want to delete.
- 3. Tap Delete.
- 4. Tap Done.

Viewing Radio Transcriptions

When connected to a Stratus audio cable, the Radio Playback feature allows you to replay ATC audio clips. The Radio Transcription feature transcribes ATC audio and displays it on the iPad to help locate specific audio clips.

NOTE: The Radio Transcription feature is specifically designed to transcribe ATC audio. Due to its specialized dictionary for aviation terms and phrases, it is not intended to transcribe audio other than ATC audio. Other audio in the cockpit, such as music, may interfere with Radio Transcription.

To use Radio Playback or Radio Transcription, tap **TRXN** on the bottom navigation bar. Then, tap **Buy cable** to buy a cable, or tap **I have a cable** if you already have a cable. The transcription module will download.

To view Radio Transcriptions on the Maps page, toggle the Radio Transcription $||_{\mathbf{A}}$ button on the top navigation bar.

Connecting to the Stratus Audio Cable

To use the Radio Playback or Radio Transcription feature, connect the Stratus audio cable to your headset, iOS device, and audio panel.

NOTE: If your headset does not have standard GA twin plugs, you need an adapter to convert your headset jack to twin plugs. When using an adapter, noise cancelling headphones will not be powered by the panel.

- 1. Connect the 3.5 mm end of the Stratus audio cable into the audio jack of the iOS device.
- 2. Connect the PJ-055 end of the Stratus audio cable into the aircraft audio panel.
- 3. Connect the PJ-055 end of the headset into the receptacle of the Stratus audio cable.
- 4. Connect the PJ-068 end of the headset into the aircraft audio panel.

Audio will automatically start recording and being transcribed once the audio cable is correctly connected.



Replaying Recent Audio Clips

Tap the arrows at the top of the screen to replay an audio clip from the last 2 minutes.

- Tap the left arrow < to navigate back to previous audio clips.
- Tap the right arrow to navigate forward to more recent audio clips.
- Tap the arrow button to jump to the most recent audio clip.

Cabin audio clips are not transcribed on the Radio audio clips page. To replay cabin audio clips, tap Cabin.

Replaying Older Audio Clips

To play an audio clip from longer than two minutes ago, tap the play 🜔 button next to a transcription.

Two hours of active radio audio (not including silence) and 30 minutes of cabin audio is stored before the oldest audio clips automatically delete.

Using Call Sign Callouts

When the app hears your call sign, it will bold it in the transcription for easy identification.

To use this feature, make sure that you have an aircraft profile with a tail number. It will appear in the upper left corner of the box shown below.



To replay all audio clips with your call sign, tap the Mine tab on the Transcriptions page.

Enabling Streaming Transcriptions

Enable streaming transcriptions to allow transcriptions to appear as the audio is spoken, instead of only at the end of an audio clip.

To enable this setting, tap the settings \bigotimes button, then toggle the **Streaming transcriptions** switch.

TIP: Due to increased processing time, this setting uses more battery and is not recommended for older devices.

Saving and Deleting Audio Clips

About 636 MB of active audio (not including silence) is stored before the oldest audio clips are automatically deleted.

 To save an audio clip and prevent it from being automatically deleted, swipe right on the recording and tap the save button.

To replay saved audio clips, tap Saved.

- To delete a single audio clip, swipe left on the clip and tap **Delete**.
- To delete all audio clips, tap the settings 💬 button, then tap the trash 🔟 icon next to **Stored Audio**.

Improving Transcription Quality

The more data Appareo has, the more accurate future transcriptions will be. You can help Appareo improve transcriptions by flagging inaccurate transcriptions.

To view our privacy policy, go to www.appareo.com/privacy-policy.

Uploading all Audio Data

To automatically upload all audio data to Appareo, tap the settings \bigcirc button, then enable the **Help Improve Transcriptions** switch.

The app must be open and connected to a Wi-Fi network to upload the data to Appareo.
Flagging Individual Transcriptions

- 1. Swipe right on an audio clip and tap the flag button.
- 2. Tap the settings \bigoplus button, then tap the upload \uparrow button next to **Flagged Transcriptions** to submit them to Appareo.

The app must be open and be connected to a Wi-Fi network or cellular network to upload the data to Appareo.

Configuring Settings

Tap the settings \bigoplus icon in the top navigation to personalize your app experience.

IMPORTANT: Tap Save in the upper left corner after making changes.

General Settings

At the top of the Settings window, view and edit your subscription information, view support documentation, and change your password.

Save	SETTINGS			
SUBSCRIPTIC	ON	v5.12.2, build: 77		
Account Rene	wal: 5/1/2	020		
Purchase/Rene	ew: MANAG	GE SUBSCRIPTION		
Question	s or suggestions	welcome!		
supp	support@appareo.com			
DOCUMENTA	TION			
PDF	VIEW DOCU	JMENTATION		
ACCOUNT SETTINGS				
Name:	Enter n	ame here		
Change Pass	word: Enter n	ew password		

Map Settings

Map Instrument Bar: Show the information bar at the bottom of the maps page. If enabled, customize the information shown.

Range rings: Show distance rings around your map location.

Extended centerlines: Show runway information for airports in your flight route.

Disable app auto-lock: Prevent your device from going to sleep when the app is open.

Zoom & landing taxi chart pop: Automatically display taxi chart when zooming in.

Detect alternates in FPL: Automatically apply the 1, 2, 3 rule to your flight route and display ALT icon if necessary.

Detect fuel stops in FPL: Automatically display fuel symbol in flight route when a fuel stop may be necessary.

FPL Climb/Descent Markers: If a performance profile has been created, display top of descent and bottom of descent markers on the map.

Suppress Distant Traffic: Only display relevant traffic close to your position.

Display Tab Bar Labels: Show the icon labels on the bottom navigation bar.

Save	SETTINGS	
MAP SET	TINGS	
Map Instr	rument Bar: Customize	
Range Ri	ngs:	
Extended	Centerlines:	
Disable a	pp auto-lock	
Zoom & la	anding taxi chart pop:	
Detect alt	ternates in FPL:	
Detect fue	el stops in FPL:	
FPL Clim	b/Descent Markers	
Suppress * During high	Distant Traffic traffic, distant targets are hidden	0
Display Ta	b Bar Labels	

App Settings

Pre-landing briefing: Automatically play a landing briefing when approaching an airport. Tap **Edit Script** to change the briefing text.

Auto T/O/Landing Timer: Enter the groundspeed threshold that indicates that you're in-flight. For most aircraft, set this to the rotation speed or stall.

TIP: Set the speed high enough that it won't trigger when you're driving a car.

Annunciations: Select which items you want visual and audio alerts for while in-flight.

Obstacles: Obstacle is near the flight path.

Runways: You're approaching or entering a runway.

GPS Unavail: GPS signal to device is lost.

Altitude Callouts: Set climb and descent alerts (in feet AGL, taking into consideration runway elevation).

Terrain: Enable Portable TAWS.

Depressurization: Monitor high baro climb rate.

Heartbeat: For Apple Watch users on iPhone,

monitor heartbeat with active flight timer on watch.

Beats/min alert: Threshold for heart alarm.

Changing Altitudes: Automatically report leaving an altitude.

Traffic Alert: Traffic is near the flight path.

Annunciation Sensor: Select the altitude source for annunciations.

NOTE: Using a barometric altitude requires setting local altimeter settings. If you're connected to an ADS-B receiver, then the nearby barometric altitude is automatically updated.

Listen for Flight Simulators: Listen for X-Plane, FSXFlight, or FreeFlight.

Checklists: Edit checklists.



New PIREP (Pilot Report)

Tapping on the New Report 🕂 icon in the upper right corner of the header will present the ADD REPORT page. You may select as much or as little items to report as you would like. The current GPS position and altitude is automatically entered as well as your CALLSIGN and ICAO TYPE. It's a good idea to verify this information is correct. Pilot reports are transmitted over LTE/DATA or Wi-Fi. If you submit a pilot report in-flight and you do not have a data connection it will automatically attempt to re-transmit to LEIDOS Flight Services to be submitted into the national airspace system. Transmission to LEIDOS must occur within one hour of pilot report creation currently. If you do enter an icing pilot report, a temperature is required.



It is only possible to enter in one cloud layer at a time. If you need to report another layer it's a good idea to add this to the textual remarks or wait a few miles and submit another pilot report.

During an instrument approach or other busy time it's a good idea to submit a pilot report when workload permits, such as after taxi and shutdown. To submit a historical pilot report find the location on the map you were at, approximately. Then hold down on the map until this screen appears on the left. Enter the report as you normally would but move the time slider to the approximate # of minutes the pilot report was observed. See right image for time slider.

	Selected Point	\times
WEATHER	AIRSPACE	NAV/AIRPORTS
SKEWT	SHOW FUEL F	RANGE
Start Date		5/20 10AM
Hours		4
Forecast Mo	del	Op40
	NEW REPOR	T
	6.8927, -90.200	¹⁷ +



The number of untransmitted pilot reports will be shown next to the new report icon.



Receipt

Upon receipt of pilot report by LEIDOS Flight Service you will receive a PUSH notification when it's received:



Your PIREP from SR22 at 2015-05-19 15:20:24Z was accepted by Lockhe... 10:59 AM

Briefing

Getting a full route briefing from Leidos Flight Services is as simple as tapping the Brief & File 🕥 button on the top navigation, then tapping **Brief Flight Plan**. You will see a notice that the briefing is being retrieved from flight service and when it's available it will be displayed.

Once the textual briefing is available it will be displayed on the screen. Stratus Insight transmits your route, flight route, departure and destination, time of departure, and call sign information to Leidos for recording. In addition a copy of the briefing is emailed to you for your convenience.



Filing

Stratus Insight flight plans are filed via Leidos Flight Services. All flight plans are ICAO standard as per FAA requirements as of March 2017. The first time you file a flight plan with Stratus Insight will require some filling out of required information on the ICAO flight plan form. Once you've added this information it's fairly straightforward to file a new plan.

Tap the Brief & File button on the top navigation bar, then tap **File Flight Plan**. Tap **Edit** to change any incorrect information.

On the left: Verify route of flight, rules, altitude, departure time, and fuel on board.

On the right: Verify time enroute, fuel on board, # of people, any remarks, number of aircraft, and any ICAO STS special handling codes.

Flight Pla	n 🗙	Flig	ght Plan (
GENERAL	Ú	TIME & FUEL	
Aircraft	N1303H>	Time Enroute	1h33n
Departure Time NOW 1/2	25/2017 5:44PM CST	Fuel Time On Board	6h40n
Auto Detect Takeoff	Landing	People Aboard	
Altitude	5300 (+)	Remarks	
Fuel Aboard	92 6	Number of Aircraft	2
l del Abourd	52 0	STS Special Handling	PB
FLIGHT PLAN	>		
Rules	VFR IFR	EQUIPMENT	
Departure	КМКС	Model Code	C510
Route KM	/KC GIVMY KSTL	A/C Equipment	BSGWYR
		Ostar	14/0

On the left verify the equipment ICAO type, ICAO Aircraft equipment, color, surveillance equipment, wake turbulence category, and home base. Tapping on A/C Equipment reveals a list of equipment options. Just tap the items that match your aircraft equipment and tap **SAVE**.

Fli	ght Plan	$\overline{\mathbb{S}}$		Flight Plan
EQUIPMENT				Save CHOOSE OPTIONS
Model Code	C510			
A/C Equipment	BSGWYR			N : NIL
Color	W/G	2	~	S : (VOR, VHF RTF, ILS)
Surveillance Equip	LB2U2	>	-	A : GBAS Landing System
Wake Turbulence	LIGHT	>	~	B : LPV (APV with SBAS)
Home Base	KHND		-	C : LORAN C
CONTACT INFO			-	D : DME
Pilot Name	John Travolta	4	-	E1 : FMC WPR ACARS
Email	email@emailaddress.com		-	E2 : D-FIS ACARS

On the left you will need to enter pilot information in once, this will be saved for future flight plans.

	Flight Plan	×)
CONTACT INFO			
Pilot Name	oL	hn Travolta	
Email	email@emailac	ldress.com	
Address	12	3 MyStreet	
Phone	81	6.123.4567	
Contact Name	EN	TER NAME	
Contact Phone	81	8.123.4567	
SAFETY EQUIPMI	ENT		
Radios		none	>
Survival Equip		none	>

	Flight Plan	\otimes
SAFETY EQUIP	MENT	
Radios		none >
Survival Equip		none >
Number Of Ding	ghies	0
Jackets/Other		none >

When you're ready tap the **FILE** button in the upper right corner.

The preflight checklist is provided for your convenience to make sure you got a full briefing. It's purely optional if you would like to use this or not. When you're ready tap **FILE NOW**.



You should receive this message if the filing was successful. If an error was encountered with the data entered the error message will appear here. In this case, fix the error and re-submit.



IFR Flight Plans can be amended or cancelled up to 30 minutes prior to proposed departure time. Cancellation reflects an UNOPENED flight plan, cancellation of opened IFR flight plans is currently not possible. After filing, the button will now say **EDIT/FILE**. Tap **EDIT/FILE** to cancel or amend an existing flight plan following on-screen prompts.

VFR Considerations

If you've filed a VFR flight plan you may both ACTIVATE and CLOSE your VFR flight plan with Leidos Flight Services. Upon filing VFR you will receive as follows, notice the FILE button is changed to OPEN/EDIT. Tapping this button and following the on-screen prompts will allow you to ACTIVATE and CLOSE your plan.



See examples below:





Map Instrument Bar

The toolbar at the bottom of Stratus Insight is designed to give you various instruments and tools for incockpit use. It can be found at the bottom of the screen and collapsed by tapping the down arrow on the left side of the bar.



The toolbar is horizontally scrollable to fit custom screen sizes of various devices. Each tool is separated by a vertical line and the order of the tools can be customized via Settings:

The order of the tools can be changed by holding down on a row and dragging the tool location. The tools are organized from left to right in this list. To turn off an instrument just single tap to toggle the checkmark (on) or no checkmark (off).

Customize Map Instruments	
Tap to enable or disable instruments. Arra by holding item and dragging.	nge order
Barometic Pressure Altitude	~
Monitor Status	~
AGL	~
GPS FPM	~
BARO FPM	~

Baro MSL

This tool shows the barometric pressure altimeter (supported in most iOS devices). Tapping the + button reveals the settings for this tool including the local altimeter setting and target altitude. The target altitude upon reaching a climb or descent is shown on the map, green = BARO sensor, magenta = GPS sensor

Monitor Status

This tool is useful for connecting a device to a headset or bluetooth audio. This lists the monitoring status of Portable TAWS and other awareness features. Pressing TEST will play over your headset or bluetooth a test message of the status to verify connectivity.

AGL

Above Ground Level of current elevation database. There are two databases, a low-res version shipped inside Stratus Insight and a HD version available for download for increased resolution.

GPS FPM

GPS Altitude feet per minute + or -

Baro FPM

Barometric Pressure Altitude feet per minute + or

MONITOR STATUS

VIB-VEOG

V18-V505

ENTER BARO ADJUSTMENT

LOCAL ALTIMETER:

TARGET ALTITUDE:

BARO MSL

984'

3.000

KMCI METAR observation at 6:53PM

29.93

3000

OK)

MON

Fliah

* Flight Timer stopped, app will not background * Missing HD







GPS MSL

GPS Altitude with target altitude indicated below. Hitting the + will allow you to set the target altitude. For more information see BARO MSL above.

GPS map marker will show as magenta.

Flight Time

The flight timer is automatically started upon the GPS speed triggered in setting. It can also be manually started by tapping START. This feature is critical for Stratus Insight to background the app and alert you to runway awareness and portable TAWS. If the timer detects an in-flight condition it will automatically stop if the GPS speed falls below flying thresholds for a few minutes.

GPS G.S.

GPS Groundspeed

Actual Track

The heading track of the aircraft.

Next Wpt Time and distance to next waypoint

Destination

Time and distance to destination via each segment of route







Fuel

Fuel tracker based on time enroute (active flight timer)

Timer

Generic timer with START, STOP, RESET functions.



Procedures

Tapping on the procedures O button will open the Procedures page. A tab bar across the top will list each airport in your flight route for quick reference to procedures at each of those airports.



Each geo-referenced procedure available at the airports listed are available organized by runway. If you would like to view a procedure at a different airport then enter the identifier in the search box.

To change the opacity of the chart, use the slider.

To remove the procedure from the map just tap REMOVE APPROACH OVERLAY.

Tap the settings icon in the upper left corner of the overlay to re-open the procedure options.





IFR Alternate Planning Tool

When planning your route of flight you may find an ALT button appears in your flight route as indicated on the right. This suggests based on the 1, 2, 3 IFR rule that an alternate may be required. Tapping on this will open the alternate planning tool which assists you in finding the weather conditions at the time you would get to the alternate, runways, and approaches. <u>This tool does not</u> <u>analyze whether an airport can be legally</u> <u>used as an alternate due to data limitations.</u> <u>The PIC must verify the alternate selection.</u>



On the right you will see a gray highlighted area, this is your NBAA no-wind fuel range ring. Exceeding this distance would cut into 1 hour reserves.

Notice the proposed alternates, wx at time of arrival, and other info.

Colors match that of METAR color codes:

Magenta = LIFR Red = IFR Blue = MVFR Green = VFR



Tapping on possible alternate choice will reveal the alert on the left. To open the airport info just tap "AIRPORT INFO" as shown on the right. Here you can look at the A/FD, and look at PROC to view approaches, minimums, including non-standard alternate minimums. When you're ready to add this airport to your alternate just tap on the map or hit the X. Next tap on the airport again and tap "ADD XXXX TO ROUTE"



The airport is now added as an alternate as indicated in RED in the flight route. The airport is also shown on the map with a red airport icon:



Opening your flight plan information box (as discussed in creating an aircraft profile) will reveal the alternate airport was added to your flight plan for filing.

To choose a new alternate just drag the waypoint off of the editor tool and an ALT will once again appear.

If you do not like the results you were given in your alternate selection you may add additional airports to your alternate search. Note this may take some additional processing time.

NOAN	KGIVIFI		\sim
	Flight	Plan (X)
	\bigcirc		
Auto Deteo	ct Takeoff	Landing))
Altitude		6300 (-	F
Fuel Aboar	ď	6	60 G
FLIGHT PL	AN		
Rules		VFR IFR	
Departure		KIA	D
Route		KMKC GIVMY KST	L
Destinatio	n	KCA	K
Alternate	-	КСМ	н



Preview Departure / Arrival Procedures

Stratus Insight has the capability to preview departure and arrival procedures to find out which procedure makes the most sense for your direction of flight. To use this feature just tap on an airport in your flight route (as discussed previously). Next, tap on **Preview Departures** or **Preview Arrivals**



Each procedure is highlighted on the right. Find the one that matches your route of flight and tap anywhere on the procedure. Close button will remove the preview.



We've selected the RACER5 departure procedure from KMKC. Now tap on the transition for this procedure or hit the BACK button if we've selected the wrong procedure.



Some procedures require a runway selection, tap on the active runway.



Finally the route is added to the route. To delete this, just hold down and drag it off the route editor window as previously discussed.

GPS Following / Track Up

Tapping on the GPS tracking 💮 button on the top navigation as indicated on the right will toggle between north-up map follow mode or track-up. North-up will be indicated with an icon in the lower left image. Track-up will be indicated in the lower right icon.

Tapping on this icon again will disable tracking. During tracking mode you may zoom in and out of the map w/o stopping tracking. Panning the map will disable tracking and orient the map back to north.



Measuring Distances

Holding down on the map with two fingers for a moment will display the measuring tool.

This tool shows the distance between two points, degrees between points, and no-wind time based upon cruise flight.

If you're using this tool to view very small distances, it will convert from nautical miles to feet.





Route Rubberbanding

Holding down on the route and dragging it will allow dynamic route rubberbanding. Upon releasing the route you will be presented with nearby airports, waypoints, or VORs to add to your route. You may also just tap on the X or tap on the map to revert back to the previous route.

You may drag a route between waypoints as indicated on the right.



You may also drag a specific waypoint as well as indicated on the right. This will replace a waypoint already in your route instead of creating an intermediate waypoint.



Overlays

Overlays in Stratus Insight are perhaps one of the most powerful and comprehensive aviation weather information available anywhere. It's important to familiarize yourself with the basic concepts of overlays and how they're used in general before diving into each specific overlay. Overlays are found in the semi menu from the header:

Here is an example of the overlays dropdown menu and where to find it. Notice various overlays you may add on top of your base maps. Many items can be overlaid on top of one another as you add them. On the right side you will find a heart icon. Tapping this icon will simply add the item to your favorites list shown on the left. They are added to the favorites list in the order in which you add them to your favorites. To reorder the list just tap on the heart icon again to remove the favorite and be sure to add them in the order you desire.

To open an overlay, tap on the text, not the heart.

Let's start with radar.

After adding an overlay in most cases a new play icon will appear as indicated on the right. This is a critical component to overlays that will give you the valid time of whatever product you've displayed on the screen.

To the right of this icon find the overlay settings icon. Tapping on this icon will reveal individual settings pertinent to the overlay on the screen.

Overlays	
لہ Icing	\heartsuit
\land Turbulence	\heartsuit
🚑 Radar	\heartsuit
😣 Radar Forecast	\heartsuit
💦 Satellite	\heartsuit
METARS	\heartsuit
	\heartsuit
Watches & Warnings	\heartsuit
Ø PIREPs	\heartsuit
LA Surface Prog.	\heartsuit
Sy Winds Aloft	\heartsuit
🚭 Upper Air	\heartsuit



Tapping on the play icon will reveal each overlay valid time and in most cases you may change the valid time by moving the slider, tapping on the Play+1 button to move ahead one time cycle, or loop the product with the Play button. Each valid time is converted to local time for you in the time zone in which the iPad or iPhone is currently set to.

If you've added more than one overlay to the screen then each overlay is provided in a vertically scrollable list. Tapping on the play icon again will hide the list to make more room available on the screen.

Tapping on the overlay settings icon as indicated on the right will reveal various settings that are applicable to your overlay on the screen. Each overlay settings is indicated at the top of each section, in this case Radar.

To change the settings just tap on each item you'd like to add/edit of your overlay. In some cases multiple selections may be made, in other cases only one item can be added to avoid user confusion. This list is vertically scrollable and you may swipe left to close a particular overlay product.

Tapping on the overlays menu again will reveal a highlighted item and checkmark next to each overlay on the screen. We highly recommend decluttering your screen as you move from product to product. For older iPads or iPhones keeping the items on the screen lower will improve performance.

To remove an overlay just tap on the text again or to clear all overlays hit the **Clear Applied Overlays** button.







Icing Overlay

Stratus Insight's icing overlay is produced directly from the Aviation Weather Centers Current & Forecast icing product. Stratus Insight provides them to you combined into one product called: Icing. Using the time slider a user can start with the CIP or Current Icing Product and move out over the valid times of the product which is currently 18 hours.

Adding the icing overlay will add another set of controls, the vertical altitude slider. Notice the knob control located at the bottom right. When set to the bottom, the default, the icing overlay is set to: MAX. MAX gives you all altitudes on one overlay presenting the worst case scenario to you at a specific valid time. The up and down arrows as well as dragging the knob will change the altitude for the icing product shown on the screen.

The recommended use is to start with MAX, then step through each altitude you will be using up to cruise flight. It's a good idea to step above and below a few altitudes to get a good picture of the icing on any given day. Use the time slider as previously discussed to look both at and around your time you may be flying.

The icing overlay has 3 options

Icing Severity (default): The icing severity forecast on the aviation weather centers CIP & FIP model.

Icing Probability: The icing probability forecast on the aviation weather centers CIP & FIP model.

Global Severity: This is based on GFS model data out to 3 days for the entire globe. The logic is based on AWC model data but it's produced in the GFS model. It's important to note GFS model data DOES NOT FORECAST SLD (supercooled large droplet icing, shown with red hatches)





Icing Severity & Global Severity (excluding SLD) colors



Turbulence Overlay

The turbulence overlay shows maximum intensity of turbulence.

Use the slider on the right to change altitudes (in feet). Set the slider to **MAX** to view turbulence at all altitudes.



The colors on the turbulence overlay correspond to the EDR (Eddy Dissipation rate).



Radar

The radar overlay features the following options:

Radar Bases = Iowa State University provided lowest tilt radar mosaic + enhanced with vector data.

Composite Radar = Weather Decision Technologies provided composite radar mosaic + enhanced with vector data.

Worldwide Lightning = Worldwide lightning strikes

24 Hour Precipitation = Colored map of the previous 24 hours precipitation.

Radar Vector Symbols

Radar vector symbols are visible when zoomed into the map and hidden when zoomed out to declutter.

One hour storm track vector, each arrow is 20 minutes.

Non-severe hail (<1 inch)

Severe hail marker (>= 1 inch)

Lightning Strike

Echo Tops: black numbers 30 dbZ echo tops: magenta numbers













TVS Marker (tornadic vortex signature)

Pulse-Doppler radar weather radar detected rotation algorithm that indicates the likely presence of a strong mesocyclone that is in some stage of tornadogenesis



Composite Radar NEXRAD color map

dBZ	Color	40
5		50
10		55
15		60
20		65
25		70
30		75
35		95

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Radar Forecast

Stratus Insight's Radar Forecast feature include two computer models to provide you with a simulated version of what the radar might look like at a future time.

On the right find the NAM model, the NAM model is updated every 6 hours and is usually valid for about 3 days.

Stratus Insight's NAM is color coded with surface based precipitation type, green = rain, blue = snow, magenta = freezing rain.

To change the model as always use the overlay settings feature.

HRRR is the other type of radar forecast model available in Stratus Insight. HRRR is updated once an hour and is valid between 18 to 36 hours. They use slightly different physics between models but the HRRR has a distinct advantage of being updated more frequently but is not available as long-term as the NAM.

Precipitation types are not color indicated on the HRRR.







Satellite

Stratus Insight has several different satellite imagery options for you. Satellite imagery has the distinct advantage of being available generally around the globe and is immune to blind spots radars can have due to terrain, availability, etc. and satellites can show clouds vs water droplets. The disadvantage is the update frequency compared to radar but this may change as GOES-R becomes available.

Visible Satellite

Think of this as a black and white photograph from space. At night, your photo will be blank.

Enhanced Infrared

Infrared imagery is measuring the temperature of the highest object such as a cloud or the surface of the earth. Cold temperatures are color enhanced to make them easy to spot. Colder temperatures can sometimes be associated with thunderstorms due to the height of the clouds.

Global Infrared

This is a global infrared product is based on the same colored infrared key indicated below.

Infrared colored temp key

-70 -68 -66 -64 -62 -60 -58 -56 -54 -52 -50 -48 -46 -44 -42 -40 -38 -36 -34 -32 -30 -28 -26 -24 -22 -20 -18 -16 -14 -12 -10 -8 -6 -4 -2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30









MFTARs

METAR observational surface data is available in a variety of formats. Each item you'd like to view on the map can be selected to see at the same time. Be aware if you add too many items the METAR text will become very long on the map.

The METAR background color is coded as follows

GREEN = VFR BLUE = MVFR RED = IFRMAGENTA = LIFR

As you zoom in more METAR stations will become visible. To see less items just zoom out.

Historical METAR observations are also available using the time slider.

Ceiling, here is an example of red background color = IFR, OVC = sky, 8 = 800'. Normally this would read: OVC008 but it's shortened to save text.

In the case of SCT for scattered or FEW for few clouds, this will also show up here even though it's not an official ceiling.

Visibility, here is an example of visibility 10SM but the station is MVFR, tapping on the item reveals the ceiling is causing the MVFR conditions.

Flight Category If you would only like to see the color coded category of the airport then select this option. The colored circles will only appear if this is the only METAR selection turned on.

Surface Wind This turns on a wind barb for the surface based sustained wind. Open the METAR by tapping on the item to see gusts.









V: 10


Precipitation If a METAR station is reporting precipitation then it will be reported here using standard METAR precipitation abbreviations.

Temperature The reported temperature in Fahrenheit and Celsius.

Dew point The reported dew point in Fahrenheit and Celsius.

Altimeter The reported altimeter setting.

Dew point Spread The delta between temperature and dew point values.











AIRMETs & SIGMETS

Aviation Weather Center issued AIRMETs & SIGMETs & ARTCC Center Weather Advisories (CWA) are available in a variety of ways in Stratus Insight. To enable these various products just tap on each you would like to see on the screen. To declutter consider reducing the amount of items on the screen at a time. Tapping on any of these items will reveal more detail about the advisory including altitude ranges.

AIRMETs in Stratus Insight are G-AIRMETs and you may use the time slider to see how the AIRMETs effect the time you will be enroute. NOTE however moving the time slider will only impact AIRMETs as SIGMETs, CWA, and Convective Outlooks will always be shown on the screen if they're enabled.



AIRMET Zulu (ICE)

Blue shaded area.

AIRMET IFR & Mountain Obscuration

Magenta shaded area.

AIRMET Tango (Turbulence, low and high)

Orange shaded area.

SIGMET including Convective SIGMETs and Center Weather Advisories

Red shaded area.



Convective Outlook, conditions are favorable for issuance of a Convective SIGMET.

Yellow shaded area.



Watches & Warnings

Watches & Warnings in Stratus Insight show county based NWS issued watches & warnings.



Winter Weather Advisory

Winter Storm Watch

Winter Storm Warning

Thunderstorm Watch

Thunderstorm Warning

Tornado Watch

Tornado Warning

Mesoscale Discussions

Think of a mesoscale discussion as occurring before a watch is issued. The Storm Prediction Center (SPC) in Norman, OK issues a mesoscale discussion while various meteorologists collaborate over the exact size and basis for issuing a watch. They can be for:

Thunderstorm Watches Tornado Watches Winter Storm Watches etc.





PIREPs

The PIREPs overlay adds a new tool to your screen for filtering of PIREPs. Tapping the filter will allow you to control the altitude base and top of PIREPs you'd like displayed on your map.

You may also change the time cutoff for the age of a PIREP to be shown on the screen.

At any time you may tap ALL ALT and NOW buttons to reset to default settings.

PIREPs use standardized symbols for all icons.

The altitude of the PIREP is indicated at the bottom.

PIREP Turb: ALGT AMOD SEV PIREP Ice: U LGT W MOD W SEV

PIREPs are colored with a border for severe and moderate conditions as follows:

Red = SEVERE Orange = MODERATE

To get a PIREP description just tap on the item.







Surface Prognostic Charts

Stratus Insight surface prognostic charts begin with the next upcoming prognostic chart and using the timer slider you may view the prog charts over time up to 7 days. After about 72 hours the precipitation types are not displayed.



Winds Aloft

Winds aloft gives you the wind direction, speed, and temperature at various altitudes and times.

To see the valid time or view the winds aloft at a particular time just use the time slider.

To change altitudes use the vertical altitude selector as shown below.

The altitude is shown at the top of the altitude selector on the right. To change altitudes tap the up or down arrow or drag the knob as shown on the bottom of the image on the right.





Upper Air

Looking at upper air charts is a great way to get a complete briefing and look at macro weather over the next several days or week. Knowing an upper level trough might exist over your route or good ridging will help drive what you might need to look at in other products. Stratus Insight has several options in upper air charts as shown on the right.

Each altitude on the right slider corresponds to a different upper air chart. The corresponding air pressure is shown on the video pop out.

These upper air charts are based on the GFS model.

Wind barbs are added and color coded for your convenience.

Upper Surface

GFS 850MB

GFS 700MB







GFS 500MB Absolute Vorticity



GFS 300MB

T-storm Outlook (SPC)

The storm prediction center (SPC) in Norman, OK publishes a 24 hour outlook for thunderstorm activity across the U.S. Using the time slider you may view day 1, day 2, day 3, and day4-7 24 hour outlooks for thunderstorms.

To view the text of the SPC Outlook just tap on the attachment icon in the upper right corner of the time slider as shown on the right.



Surface Maps

for
Surface Humidity
Surface Winds

Surface Temperatures









TFRs

Visual representation of TFRs is available from TFR overlay from <u>http://tfr.faa.gov</u>.

Remember stadium and published TFRs are not depicted and this is not a substitute for a briefing.



Trip Range Ring

Unlike standard range rings which show a fixed distance around your location, trip range rings show the farthest you can travel without a fuel stop based on information such fuel, aircraft performance, and weather at your time of departure and altitude.

The colors on the range rings indicate the severity of tailwind.



Obstacles

Obstacles are provided from the FAA obstacle database. The database for offline use may be downloaded from the Downloads area. The symbols will show up in three colors:

Red = Current GPS altitude is at or below the elevation of the obstacle <200'

Yellow = Current GPS altitude is nearby the elevation of the obstacle <1000'

White = Current GPS altitude is well above obstacle elevation. >1000'

Lighted tall tower

Bridge

Stack

Lighted small tower

Multiple small lighted towers

Tank (water tower)

Catenary

Windmill & Multiple Windmills

Elevator





Building with tower

Pole

Unlighted small tower

Crane

Cooling tower

Rig

Building















600890-000067, rev 1.2

TAWS

TAWS provides a 2d overlay of shaded areas of terrain relative to GPS altitude.



TAWS



TAWS Ownship

This option will use the current GPS altitude to shade the TAWS overlay. (use this in flight)

TAWS Planning

This option will highlight areas relative to your planned cruise altitude to highlight areas for preflight planning. (use this on the ground)





Fuel

This tool is used for fuel stop planning with a list of fuel prices on the map. You can choose between avgas and Jet-A pricing from the overlay settings menu.

Note the first time the fuel database is loaded it may take a couple of minutes to download.

Here is a look at the fuel prices on the map.

As a reference higher prices are shown as follows:

Green = Lowest priced Blue = Moderately priced Red = Highest priced





Vector Layer & Vector Basemap

Vector Layers are vector-based data driven charts including airspace, airways, VORs, and airports. As a layer you can overlay it on top of any base map. For example here is the vector layer applied on top of the street map. Many symbols, colors, and references are modeled after FAA VFR sectional charts.



As you zoom into the map more objects will become visible and in more detail. To see information simply zoom out.

Vector Symbols

Zoomed out the ARTCC sector boundaries will be visible, see the white boundary line indicated on the right and center name: ZDV (Denver Center)

As you zoom in a bit further towered airports will begin to show up. See a towered airport indicated in blue on the right with services.

Zooming in a bit further special use airspace will begin to appear such as a MOA on the right.







Zooming more airspace begins to become visible.

Dashed blue in the upper left is class D airspace.

The blue solid circles are class B airspace

Dashed magenta is class E airspace

Class C airspace in solid magenta

Water & urban areas are highlighted as









indicated

Waypoints





Tap on airways to see MEA

Tap on airspace to see vertical boundaries

VOR names & radials of airways

Runway centerlines, airport name, CTAF & ASOS/ATIS with runway elevation.

Zooming into airport reveals taxiway diagram via FAA chart or vector





V10 MEA: 3,000'

05052205





Vector Settings

Tapping the overlay settings reveals various Vector map settings to customize your experience.

At the top you may enable Low or High airways or disable airways to declutter.

When adding as a base map you may have a light or dark theme.

Text size is customizable on the screen.

Minimum runway length may be applied to airports shown.

Airspace boundaries can be disabled to declutter.

SUA (Special Use Airspace) can be disabled to declutter.

Lat/Lon Grid may be added as a reference similar to the VFR sectional chart.

Private Airports can be disabled to declutter.

Heliports can be added if needed.

Paved runways only, if enabled only paved runways will be shown.

Show Obstacles, obstacles will be shown when Vector is turned on instead of turning on the obstacles as a separate overlay.



Airports

The airport information window comes in a couple of varieties and accessed a number of different ways. For iPhone users the page will look similar to the right screenshot.

For iPad users you may access this smaller airport window or a large dedicated airport page.

One of the ways to load an airport is enter a single identifier in the search box at the top as indicated on the right.

Other methods include:

Tapping on a METAR or airport on the Vectors layer.

Tapping on an airport in your flight plan.

The small airport window features common frequencies and information presented on the screen including sunset and sunrise times, and airport name.

An airport thumbnail is provided and you may tap on this to see a larger image.

Across the top find buttons for various features within the airport window. Including:

WX = Weather Information
FREQ = Other Frequencies
RWY = Detailed runway information
PROC = Procedures such as approaches
NTM = NOTAMs
FBO = FBO contact information and fuel pricing

	KFAR 🛞					
DELETE WPT D			+	ADD FPL		PL
INFO WEATH	ER FRE	Q RV	VY PRO	C N	OTAMS	FBO
FAR: HECTOR INTL FARGO, NORTH DAKOTA, CASS 46.92064, -96.81575 Rise: 5:39AM CDT, Set: 9:08PM CDT 10SM Clear Calm +FCST Taxiways A/FD Comments						
ATIS	GRC	UND	TOWER		ELEVATION	
124.5	12	1.9	133.	8	90	יוס
APPR/DEP	CLEARANCE		СТА	F	UNI	сом
120.4, 125.125	121.9				122.	.950
PATTERN	500' AGL		FUE		PR	ос
1,801'	1,4	101'	100LI A+ A J8	LA ++	N	/A
The survey of th	_			_	A CAN WE DO	

Here is a look at the full size airports page with the same information as the small window. Tap **Airports** to see this page.



By tapping the heart icon on the main airport page will add the airport to your favorites list. To view your favorites list just tap the flag \bigcap icon dropdown. This will show you the weather of your favorite airports. To open the airport just tap on the item.

To browse airports by state just tap \bigcirc and select the state and city.

Favorites	S	
KOSH: WITTMAN RGNL		_
200° @ 10KT, VIS 10SM, SK TMP: 24C, DEW: 19C, ALT 2	Y Clear, 29.93 40m	
118.5 TWR 808' 18/36, 09/27	7, 05/2 114° @ 373NM	1
KFAR: HECTOR INTL		2
190° @ 04KT, VIS 10SM, SK TMP: 17C, DEW: 12C, ALT 29	(Y Clear, 9.84 40m	
133.8 TWR 901' 18/36, 09/27	7, 13/31 301° @ 17NM	1
∧ ⊕ ∨ ⊕ ∧		
Browse		
	>	
ALABAMA	>	
ALASKA	>	
AMERICAN SAMOA	>	
ARIZONA	>	
ARKANSAS	>	
CALIFORNIA	>	
COLORADO	>	
CONNECTICUT	>	
DELAWARE	>	
DIST. OF COLUMBIA	>	

Nearby airports dropdown Show weather and airports near your current position.

	$\overline{\mathbb{O}}$ \sim			Airp
			Nearby	
C	04Y: HAW		IUNI	
4 F	No weathe	er data		N/A
L	122.8 CTAF	1,209'	16/34	35° @ 8NM
(KJKJ: MO 200° @ 04	ORHE	AD MUNI S 10SM, SKY Clear,	
	TMP: 18C,	DEW:	12C, ALT 29.86	13m
	123.0 CTAF	918'	12/30	295° @ 9NM
	47Y: PELI No weathe	CAN R er data	APIDS MUNI-LY	D
				N/A
	122.9 CTAF	1,389'	15/33	118° @ 16NM
	KFAR: HE 190° @ 04	CTOR KT, VIS	INTL § 10SM, SKY Clear,	•
	TMP: 17C,	DEW:	12C, ALT 29.84	56m
	133.8 TWR	901'	18/36, 09/27, 13/31	301° @ 17NM

Plates

The dedicated Plates page of Stratus Insight is a great way to keep charts organized for frequent use and access them quickly. To access Plates, tap **Plates** on the bottom navigation bar.

The first time you load the plates tab it will look like the right section. To add plates see below.

The upper right corner search for city names or airport identifiers. When you find the airport you would like to see plates from just tap on it.



Once you've selected the airport identifier you will be presented with a list of approaches and procedures for each runway. To add the items just tap on them.

To close the list tap the X in the search box.

Here is a look at plates that will show up in your binder once you've added them.

To favorite a plate, just tap the heart button.

To delete a plate just tap the X button.

You may pinch the plates tab to change the size of the plates on the screen.

To view your favorite plates across all binders just tap on the Favorites dropdown. Tap to open the plate.



To change the binder you have open just tap the binders a drop down and tap the binder you'd like to view.

You may also add a new binder here or hit the + button on the main screen next to the binder name.



Downloads

To access downloads, tap **Download** on the bottom navigation bar.

Downloads control databases, charts, and other information needed for the app to use in-flight (offline).

ownloads		
Stats		Settings
Storage	16.67 GB of 63.99 GB	Warn when downloading over cellular
		Automatic updates
📕 Database 🔳 Other		Automatically download selected files when the device is charging and connected to Wi-Fi.
Databases Selected	2 / 27	
Databases Expired	0	Select all databases
		Checking this option will check or un-check all the databases to download.
Downloads		Download or update all selected databases
Total	869.7 MB	All the databases that are check-marked will start downloading.
Remaining	Zero KB	Download selected

Downloading databases

Download databases individually or in multiples.

- To download an individual item, tap the download ψ_1 button to download it.
- To download multiple items, mark the check box next to multiple items, then tap **Start downloads**.
- To download all items, check Select all databases, then tap **Start downloads** to download all selected items.
- Tap the trash 🔟 button next to a download to delete it.

Changing download settings

- Toggle the **Automatic updates** switch to automatically download files when the app is plugged into a power source and connected to Wi-Fi.
- Toggle the Warn when downloading over cellular to prompt a notification before downloading if you're not connected to a Wi-Fi network.

The quickest way to make sure your charts are downloaded and ready to be used offline is to use the download flight check feature in the FPL menu.

Each time you enter a flight route, Stratus Insight will do a systems check to make sure your entire route is covered by charts already downloaded. The # of items remaining and not downloaded will appear in a red # next to the downloads icon. Tap on it to reveal what is missing.



On the right see the Download Flight Check window. Items missing will show up with a download icon. You may download individual items by tapping the download button. To **download all** of the items just tap Download All. Enable **Warn over cellular** to alert you if you're not connected to a Wi-Fi network when you begin downloading items.

Download Flight Check	\otimes
Download All Warn over cellular Flight	
METARs, TAFs, NOTAMs N/A	\downarrow
AIRMETs/SIGMETs/TFRs N/A	\downarrow
Charts	
Airport Supplement DB	\checkmark
Chart Supplement (A/FD)	\downarrow
VFR Sectionals	\checkmark
IFR Low Altitude	,↓,

Portable TAWS & Flight Monitoring

Stratus Insight has several various features of both aural and visual warnings. In order for this to be effective the iPhone or iPad must be plugged into the headset jack or connected via bluetooth to a headset or avionics panel input port. It's highly recommended you use the TEST button in the navigation bar as previously discussed in this manual to test the volume and connectivity to your panel.

Airport Surface Monitoring

During ground operations Stratus Insight will monitor your taxi to the runway and will alert you as you approach a runway. This is based on time in seconds to entering the runway environment. In certain cases a fast taxi with a vector towards the runway could create a false positive alarm. As you enter the runway another alert is heard.

Examples:

"Approaching runway 1, 19" "Entering runway 1, 19"



Altitude Descent and Climb from runway environment

Stratus Insight will alert you to altitudes during your descent or climbout in AGL from the runway environment. The default option is to alert at 500' above ground level during the descent to the runway. Customized altitudes can be set as discussed in the Settings area of this manual.

Example:

"Five Hundred"

Altitude Leaving

When you level off at a certain altitude for a few minutes Stratus Insight will detect automatically this altitude. When you have deviated from this altitude by a couple hundred feet Stratus Insight will alert you to leaving this altitude. This serves as a reminder that you're drifting off altitude or a reminder you're changing altitudes as desired.

Examples:

"Leaving flight level 1 8 0"

"Leaving 13 thousand, five hundred"

Obstacle Alerting

Based on a 3D trajectory of the aircraft obstacles will be monitored for potential conflicts if it looks like the clearing and proximity to the obstacle will be very close. Based on certain criteria an obstacle alert will be heard:

Example:

"Obstacle, pole, 4.2 miles, 595 feet"

A visual alert will also be shown around the obstacle with the height.



Portable TAWS

EDR

A 3D trajectory is monitored of the aircraft at all times. Based on the aircraft's altitude in AGL, speed, and descent rate an excessive descent rate algorithm may be triggered during a high descent. "Sink Rate"

Southing 1 Contraining 11		 1.00 1.41
	EXCESSIVE SINK RATE	
	DISMISS	

PDA

Based on the runway we're approaching if we're at a very low glideslope angle, in other words very low approach angle, an alert will be generated.

"Too low, terrain!"

TOO LOW, TERRAIN	

Terrain

Based on the 3D trajectory of the aircraft and conflict with terrain an alert will be created. "Terrain, Terrain"

CAUTION, TERRAIN AHEAD	
DISMISS	

Heartbeat

If we've connected an Apple Watch and enabled a flight timer from the watch the pilots heartbeat will be monitored and if it exceeds a threshold value an alert will be created. The default is 120 but may be increased for individual fitness level in the Settings area of the iPhone.

A heart rate in some cases can be a symptom of hypoxia. For best results a pulse-oximeter should be used to verify.

Example:

"Heart rate high, check oxygen, 123 beats per minute"

Depressurization

Most modern iPhones and iPads feature a barometric pressure sensor in the device. For pressurized aircraft the "depressurization" feature should be turned on in Settings. A high cabin climb rate will trigger this alert.

Example: "Check Pressurization"



AFROVIE

Heart rate high (78 BPM), check O2

Dismiss

ADS-B Weather & Traffic

Stratus Insight supports the following portable ADS-B receivers and in-panel ADS-B solutions.

- All Stratus portable receivers
- Open Flight Solutions FlightBox
- FreeFlight
- Dual XGPS 170, 190
- Avidyne IFD series navigators
- Lynx L3 transponders
- iLevil ADSB and AHRS receivers
- Iridium Satellite communicator (for PIREPs)

Receivers connect via Wi-Fi or Bluetooth; refer to each manufacturer for setup instructions. To connect to a Stratus portable receiver, refer to the steps below.

- 1. Turn on the Stratus portable receiver by pressing the power button or turning on the aircraft if it's configured to power on with aircraft power.
- 2. Tap the **Settings** button on your iOS device's home screen.
- 3. Tap Wi-Fi.
- 4. Make sure that Wi-Fi is enabled. Tap the Stratus wireless network, displayed under **Choose a Network**, to connect. Your Wi-Fi network name is on the label on the back of your receiver.

When your device is connected to the Stratus wireless network, a checkmark appears next to the network name.

To verify Stratus Insight has successfully connected to your receiver, look for this icon on the map page of Stratus Insight.



Tapping on the ADS-B receiver icon will reveal various status information for your receiver including firmware version and GPS received data.

The GPS in use by the app can be toggled between the Receiver or Internal. This will only be effective if valid information is received from your ADS-B device.

Tapping on the **?** button will reveal additional status information about your receiver.

For FlightBox users, Stratus Insight can manage your firmware for you. As new firmware versions are released you may receive a prompt to download and install the new software.

For FlightBox users after downloading and the device is connected you will be prompted to INSTALL the new firmware to the device.



(y)	CO.	
Type: Version: Battery:	FlightBox v0.8r4 ? UPDATE	FlightBox UPDATE AVAILABLE FlightBox version: v1.0r1 is now available for download.
Towers: GPS:	0 towers heard Internal Receiver	DOWNLOAD NOW
Location: Altitude:		CANCEL
Heading: Speed:		10-2 - 2 V
WAAS:	Waiting for toward	0.0000


ADS-B menu

Once your ADS-B receiver is connected you will notice a new menu in OVERLAYs labeled: "ADSB".

As usual these items can also be added to your quick access favorites list.

Most of these products are similar to the non ADS-B counterparts with a few new items.

As you receive data over ADS-B Stratus Insight will log this data internally where it can be accessed a number of different ways such as the airports informational tab for METARs, TAFs, and NOTAMs.

Overlays

ADSB : Traffic	\heartsuit
ADSB : PIREPs	\heartsuit
ADSB : METARS	\heartsuit
🞽 ADSB : Radar	\heartsuit
ADSB : Turbulence	\heartsuit
ADSB : Icing	\heartsuit
ADSB : Cloud Tops	\heartsuit
ADSB : AIRMET/SIGMETS	
ADSB : Towers	\heartsuit
Цщ Icing	\heartsuit
A Turbulence	\heartsuit
Radar	\heartsuit

Traffic

Traffic over ADS-B comes in a variety of ways all of which will make no difference to how they're displayed in Stratus Insight. Here are a few of them:

1090Mhz direct air to air 978Mhz UAT air to air 978Mhz UAT TIS-B in

Depending upon your aircraft capability you may or may not receive the TIS-B feed.

Traffic display includes direction of travel, altitude in 100's or feet + or - from your current GPS altitude and a two minute trend vector.

Tapping on the item reveals additional details. Example of ground based ADS-B traffic.

METARs

Accessing the ADS-B METARs submenu will allow you to turn on various METAR observational items on the top down map.

METAR data can also be accessed in the airports informational tab.

Received METAR information is also used to automatically update the BARO MSL sensor local altimeter setting.







PIREPs

PIREPs received over ADS-B can be accessed from the Overlays / ADS-B menu using the same format as non ADS-B PIREPs. Tapping on the item will reveal the raw received PIREP.



Radar Local

Radar imagery from ADS-B comes in two varieties. For local radar, every 5 minutes (with a duplicate received at 2.5 minutes) a local (a few hundred miles around your aircraft) radar image will be uploaded.

Here is an example on the right and notice some areas were not received are hatched out with a gray diagonal line. This means these areas may contain radar imagery or may not but was not received in this cycle from ADS-B.

Use the time slider to loop the product over time.

Radar National

Radar imagery from ADS-B comes in two varieties. For national radar, every 15 minutes a national CONUS radar image is received in lower resolution than local.

ADS-B Radar Imagery Colors





Intensity	dBz	Color
2	20-30 dBz	
3	30-40 dBz	
4	40-45 dBz	
5	45-50 dBz	
6	50-55 dBz	
7	>= 55 dBz	

NOTAMs

In the airports information under NOTAMs you will see a new category for **ADSB Received** NOTAMs with a list of all over the air received NOTAMs for the airport.

Apple Watch

The Stratus Insight app on the Apple Watch is a great way to stay connected to nearby airport weather, access nearby radar imagery on your watch, start your flight timer, monitor your heartbeat, and much more.

The first time you load the Stratus Insight watch application it will need to connect to your iPhone companion app to download your session information. If you receive an error message make sure the iPhone is nearby and restart the Stratus Insight app on the phone and watch.

The Stratus Insight watch app is organized into a series of pages you can access by swiping left and right. The current page is indicated at the bottom of the page. The digital crown (wheel on the side) can be rotated to scroll down to see more information on individual pages or simply swipe up and down on the screen.

On certain pages additional settings can be accessed by using a DEEP PRESS, or push hard on the screen.

See the flight timer page on the right, to start a timer just tap on one of them, tap again to pause.

The flight timer page contains several features critical for use in-flight.

By viewing the page the current flight timer status is indicated with the time on top. The colors of the text indicate as follows:

- Red = Communication received from iPhone and timer is stopped
- Yellow = Communication is pending with iPhone, not yet received.
- Green = Communication received from iPhone and timer is started.

Tap START FLIGHT or the timer to toggle between active/inactive timer. An active flight timer will begin backgrounding monitoring on iPhone for portable TAWS and other awareness features.

TEST SPEAKER will test the aural alerts from your iPhone to test avionics or headset connectivity.





The landing briefing button will manually play the landing briefing at the next airport in the waypoint list.

Pressing the checklist button will reveal the digital checklist as setup on the iPhone companion app.

The list of checklists from your companion iPhone app will be displayed in this list. Use the digital crown or wheel on the side to scroll through various checklist items and tap on them to start a checklist.

Tap back to go back to the flight timer.

On the right is an individual checklist. To start playing the checklist over your iPhone headset or bluetooth connection tap the speaker icon. To restart the checklist tap the recycle icon.

Tap back to go back to the list of checklists.

The instruments page displays a top and bottom instrument in which you may customize.

To change the displayed instrument simply tap on it and select the new instrument from the available list.



The radar tab will show the current VFR sectional and radar imagery nearby your location. The valid time is indicated at the top of the radar image.

Using the digital crown or wheel on the side you can rotate between various zoom levels.

The departure & destination airport pages show an airport thumbnail, the current METAR weather conditions (VFR, MVFR, IFR, LIFR).

Scrolling down the page will show elevation and frequencies for the airport.

Deep pressing on this page will toggle between airport information and additional METAR, TAF, and TAF discussion information.

The favorites tab will show airports you have favorited on the iPhone companion app by tapping the heart icon in the airport information page.

Deep press on this page to display detailed weather information.

Display nearby airports on this page including METAR color code or deep press on this page to display detailed weather information for each airport.









Deep pressing on any page and tapping on Settings will allow you to customize your Stratus Insight watch experience by selecting only the pages you would like displayed.

Tap reset, then select the pages in the order you'd like them displayed.

Tap back when complete.

Apple Watch Complications

Apple watch complications allow you to create widgets on your standard watch face to include the nearest major airport METAR, TAF, and GFS MOS. You may set these up using your iPhone Watch application or using the watch itself.

In this example the top line reads as follows:

<IDENT> <WX_CONDITIONS> <time-of-observation> <Current Conditions>

<Current conditions expanded or next significant weather Chang event>

+FCST = Indicates a fair weather forecast in TAF.

Deep pressing on the main watch screen will reveal a customize button.







Tapping customize and using the digital crown (wheel on the side) you can rotate between complications. Find Stratus Insight for the complications you'd like to add it to.

We highly recommend the modular face with the large middle area for the most content available.



Troubleshooting

For assistance using Stratus Insight, contact us at support@appareo.com. Here are a few common things to check if you're having some troubles:

GPS Location is not shown using Stratus Insight	Check iPhone or iPad Settings under Privacy → Location Services → Stratus Insight to make sure GPS access is turned on for Stratus Insight.
Application is running slow	Try reducing the number of items on the screen at the same time by only turning on overlays you absolutely need. We recommend iPad Air 2 or newer & iPhone 6 or newer.
ADS-B products are not displaying.	Check to make sure your ADS-B receiver is connected to Stratus Insight by seeing this icon on the map:
Maps get blurry as I zoom in	Most likely your base map is set to an online chart and not an offline chart while enroute without a data connection. Check your base maps menu is using a chart labeled (offline).
l cannot remove a procedure (approach chart) from my screen.	To remove tap the procedures \bigodot button in the FPL menu of the maps section and then REMOVE APPROACH CHART.