

AVSOFT

AvPlan User Manual

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1 INTRODUCTION

AvPlan is the premier portable flight-planning application for the Apple iPad for Australian pilots. AvPlan allows you to perform all pre-flight planning activities such as

- Download and save copies of all aviation maps, ERSA, DAP and AIP. These are then available to use when there is intermittent/no network access
- Prepare a flight plan, download and incorporate winds and then submit the plan via NAIPS to Airservices Australia.
- Download and save weather briefings, PRD status and other NAIPS related information
- Prepare a loading plan and view the weight and balance envelope
- Add, delete custom aircraft profiles
- Determine the optimal altitudes for your flight
- Inbuilt help function

In flight AvPlan can be used as an electronic flight plan;

- Calculates departure, arrival times for all waypoints based on actual arrival times plus forecast winds.
- Displays aircraft routing and current location on all maps
- Logs and displays aircraft track
- Easy access to ERSA and DAP information
- Rapid access to emergency ERSA pages

1.1 HELP!

AvPlan incorporates an inbuilt quick-tip system. Just press the life belt icon on any screen and some tips on what button does what will appear.



1.2 LICENSING AND SUBSCRIPTIONS

The app is available with a 1 month fully featured free trial via the Apple App Store (<http://itunes.apple.com/au/app/avplan/id417674282?mt=8>). The app is then sold on a subscription basis. There is a compulsory Flight Planning subscription, and then a VFR and/or IFR upgrade pack can be added.

Subscriptions purchased inside the app will automatically renew at the completion of the subscription period, unless this has been disabled (See <http://support.apple.com/kb/ht4098> for details on disabling auto renew for subscriptions).

Subscriptions purchased via www.avsoft.com.au do not automatically renew.

Subscriptions are valid on up to three devices.

The Flight Planning subscription enables full use of the app, with a Google Map, plus the Planning Chart. The app will not function without a valid Flight Planning subscription. At the completion of the subscription period the app will no longer function.

The VFR Upgrade Pack adds the Australian AIP, ERSA and VFR charts (WAC, VTC, VNC)

The IFR Upgrade Pack adds the DAP and IFR Charts (ERC H, ERC L, TAC).

Licenses can be purchased through the app, or from www.avsoft.com.au. To activate a subscription purchased via the web site;

1. On the opening window, press <Login Details>

2. Press <Sign In> on the top of the window.
3. Enter the email address and password used when purchasing the subscription
4. Press <Sign In> under your password
5. Press the back button
6. Now press <Renew> at the opening screen
7. Press <Restore> at the bottom of the window
8. If you get a window asking for your Apple ID and password, you can press <Cancel>

2 APPLICATION STRUCTURE

The app is structured around the flight plan, which appears on the left in landscape mode, and on the bottom of the screen in portrait mode. In portrait mode, additional information is available for each leg in the plan such as navaid type and frequency. The flight plan can be shown and hidden as required using the flight plan button on the top menu bar.

The other pane on the screen holds a switchable view containing in order;

- Flight planning information
- En route information (Maps)
- Terminal information (Weather information at a point, ERSA, DAP charts)
- Weather information
- Text information (AIP, ERSA/DAP General Pages, POH if available)
- Settings

3 FLIGHT PLAN



3.1 FLIGHT PLAN INDEX

In the index of flight plans, each plan is shown with the departure and arrival landing points, distance, time, flight rules and aircraft call sign.

In addition the status of that plans submission is shown;

- Not Filed (Plan has not been sent to NAIPS)
- Filed OK (Plan has been successfully submitted)
- File Failed (Plan failed to submit correctly)

To delete a flight plan, swipe the row of the plan that is to be deleted. A delete button appears, and when pressed the plan is deleted. Any track logs stored against that plan are also deleted.

3.2 FLIGHT PLAN VIEW



3.2.1 Flight Plan Table

The flight plan table contains all information about the flight plan. When tapping on a row in the flight plan, the Terminal pane is opened with the details on that leg. The flight plan can be hidden from view by pressing the <Flight Plan> button on the top of the En Route, Terminal, Weather and Text pages.

3.2.2 Flight Plan Header

The flight plan contains two toggle buttons at the top of the flight plan

- VFR/IFR
- Plan/Fly

The VFR/IFR button changes the entire plan to be under that flight rules. If a change from VFR->IFR or IFR->VFR is required, then the flight rules for individual legs can be changed in the terminal view for those track points.

The Plan/Fly button changes the app from a purely planning mode, to one to be used in flight. In fly mode the onboard GPS is turned on, and flight plan altitudes **do not** auto fill down the plan.

The call sign of the current selected aircraft appears at the top of the flight plan.

3.2.3 Add Tracking Point

The '+' button at the top of the flight plan either adds a new plan if the user is on the index screen or adds a new leg to the plan. New legs can be added by entering the ident (and the results will automatically appear) or entering a name and pressing 'Search'. The 'Primary/Alternate' selection changes whether the leg added is a

primary tracking point, or part of the track to the alternate aerodrome. To dismiss the 'Add leg' view without adding a track point, hide the keyboard and press 'Dismiss'.

When adding a track point to a flight plan, the weather information is automatically downloaded in the background and winds information applied to the plan. This can be changed under the user settings for the app.

The search field is case sensitive, and all internal waypoints and names are in uppercase. The keyboard that appears when the selection field is tapped is automatically in uppercase.

3.2.4 Flight Plan Controls

The flight plan contains five buttons at the bottom of each plan

- Edit
- Refresh
- Aircraft
- Loading
- Send

An altitude can be entered for each leg of the plan. In 'Plan' mode, altitudes will automatically fill down the plan. In 'Fly' mode, only the actual leg will change. Altitudes can be entered as feet (e.g. '2500'), in A.. format (e.g. A035) or F... format (F310). Any invalid input will result in the field not changing.

A user LSALT can be added for each leg. These are then saved and reused if the same points are added in another flight plan. Changing a user LSALT between two legs will also change any other plan using the same points.

An ETD can be entered per stage in a plan. A 4 digit format HHMM or six digit DDMMHH format can be used. These are in UTC. If a 4-digit time is entered then the day is automatically added.

3.2.5 Edit Plan



The edit button places the plan in edit mode. In edit mode;

- Individual legs can be deleted with the red button on the left
- Individual legs can be picked up and moved with the button on the right
- User winds can be entered in the winds column. To clear a user entered wind, delete the contents of the cell.
- A flight plan leg can be added to the bottom of a flight plan stage with the green '+' icon.

3.2.6 Refresh Plan

The refresh button will re-download weather information if it is older than 15 minutes old, and apply these new values to the plan. If weather information is newer than 15 minutes old, only a full recalculation is performed.

3.2.7 Aircraft

The aircraft button allows an aircraft profile to be applied to the plan. See section 10 for more information on creating performance models.

To apply an existing aircraft and performance model to the plan;

- Select the aircraft type
- Select the aircraft callsign

If a detailed performance model is available for the type;

- Select the performance model

If no detailed performance model is available, the basic performance profile is used (See section 10.1.1)

3.2.8 Loading

The loading button opens the Flight Planning tab and goes to the Weight and Balance view. See section 4.1 for more information

3.2.9 Send

The Send button allows the user to

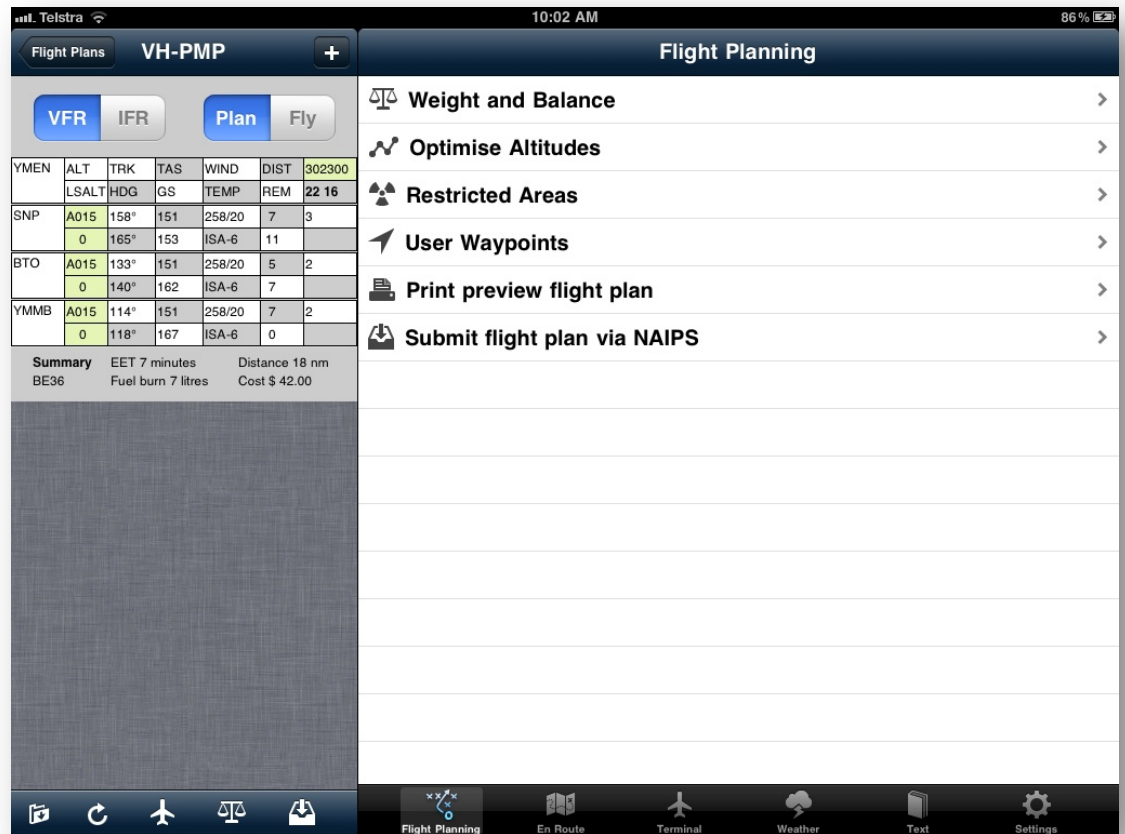
- Send a printout to a printer or another app on the device
- Submit a flight plan

The submit button opens the Flight Planning tab and enters the NAIPS plan submission view.

The 'Send...' options allow the user to;

- Send the plan plus all ERSA/DAP pages for the flight to a printer or another app. In VFR mode, only the ERSA pages are sent even if an IFR Upgrade Pack is present.

4 FLIGHT PLANNING



The Flight Planning tab has the following options;

- Weight and Balance
- Optimise Altitude
- Restricted Areas
- User Waypoints (version 1.3)
- Print Preview Flight Plan
- Submit Flight Plan via NAIPS

4.1 WEIGHT AND BALANCE



The Weight and Balance view displays the loading envelope, the loading stations, weights and fuel plan. Scroll left and right to view different stages for the selected flight plan.

4.1.1 Loading

Loads can be added to any stage in the plan. Loads on previous legs will be reused on subsequent legs, and unburnt fuel is reused on subsequent legs.

The loading table is in the format ;

Load Station	Maximum	Actual Load
--------------	---------	-------------

4.1.2 Fuel

Fuel can be added to any stage and any tank. Fuel is burned in the order the tanks appear in the table. The fuel tank burn order can be altered by changing the order in the loading view in the aircraft type (See section 10.1.3).

Any unused fuel for a stage in the plan appears as the tank contents for the next leg.

4.1.3 Loading and Planning

The POB, taxi and holding times can be entered per stage.

4.2 OPTIMISE ALTITUDES

The optimise altitudes displays the time interval and fuel used for each 1000ft increment for each stage in the flight plan, up to the service ceiling entered in the

aircraft model. A row can be selected and this is then applied to the particular flight plan stage.

4.3 USER WAYPOINTS (VERSION 1.3)

User waypoints can be added, edited or removed from this window. To add a waypoint, press '+'. Latitudes and Longitudes are in the format DD MM.MM S. To edit a waypoint, select a waypoint and edit as required. To delete a waypoint, swipe the row and a delete button will appear.

4.4 RESTRICTED AREAS

The Restricted Areas briefing displays and saves the status of any restricted areas for the ARFOR areas traversed during flight. A restricted area briefing can be refreshed using the 'Refresh' button in the top right of the window.

4.5 PRINT PREVIEW

The Print Preview window shows a preview of the flight plan in Australian Domestic format. This is the same as what will be printed/sent.

4.6 FLIGHT PLAN SUBMISSION

Flight Plans **VH-PMP** **+** **Flight Planning** **Submit Flight Plan**

VFR **IFR** **Plan** **Fly**

YBAS	ALT	TRK	TAS	WIND	DIST	ETD
	LSALT	HDG	GS	TEMP	REM	
AS	A000	297°	150	104/10	2	1
	0	298°	159	ISA+9	638	
DESET	A000	137°	150	104/10	80	34
W584	4200	135°	141	ISA+8	558	
TREBL	A000	136°	150	VRB/10	154	66
W584	3100	136°	140	ISA+6	404	
FLORA	A000	134°	150	VRB/10	150	64
W584	2400	134°	140	ISA+4	254	
ARANA	A000	133°	150	112/10	112	48
W584	4900	131°	140	ISA+2	142	
BHI	A000	131°	150	111/10	141	60
W584	4900	130°	140	ISA-2	0	
YBHI	A000	255°	150	111/10	0	0
	0	252°	157	ISA-15	0	

Stage 2

YBHI	ALT	TRK	TAS	WIND	DIST	ETD
	LSALT	HDG	GS	TEMP	REM	
BHI	A000	075°	150	111/10	0	0
	0	077°	141	ISA-2	138	
PILTA	A000	158°	150	110/10	73	31
W584	2600	156°	143	ISA-4	64	
MIA	A000	157°	150	260/20	64	25
W584	1800	165°	153	ISA-4	0	
YMIA	A000	176°	150	260/20	0	0
	0	183°	146	ISA-4	0	

Pilot Details

Pilot Name

Contact Phone No.

NAIPS Username

NAIPS Password

SARTIME Details

SARTIME

ATS Unit

For

At

Emergency Details

Emergency Radio

Survival Equipment

Life Jackets

Number of dinghies

Flight Planning **En Route** **Terminal** **Weather** **Text** **Settings**

The Flight Plan submission window contains the following information

- Pilot details
- SARTIME details
- Emergency Details

- Flight Plan Remarks

4.6.1 Pilot Details

This information, which includes the pilot's NAIPS details must be entered to submit a plan. These are then saved for future use.

4.6.2 SARTIME

A SARTIME can be entered for arrival or departure at a particular point in the flight plan. SARTIME's are entered in six-figure format DDHHMM. Once a SARTIME has been successfully submitted, a warning message will appear on your device 10 minutes prior to its expiry.

4.6.3 Emergency Details

The various emergency equipment carried onboard the aircraft can be entered.

4.6.4 Flight Plan Remarks

Any flight plan remarks applicable to the entire plan (Field 18B) can be added.

4.6.5 Submit

The Submit button sends the plan to Airservices. If a test plan is only required, set NOSEND to ON.

The status of the plan submission appears in the window below the send button.

5 ENROUTE



The En Route pane displays mapping information. The controls on the bar at the top of the screen perform the following functions;

- The Map icon opens a menu so that a new map can be opened.
- The Radar icon displays BoM radar information overlaid on the map. Currently this works for WAC and VTC charts only
- The Track View menu item toggles the visibility of the aircraft track log

The aircraft position is overlaid on the map on all map types. The aircraft is colour coded depending on the accuracy of the GPS fix.

- The aircraft is **black** when the fix is >100m
- The aircraft is **red** when the fix is <100m but no heading information is available
- The aircraft is **blue** when the fix is <100m and there is valid heading information

On all but the Google Map view, waypoints can be selected and moved around the map. To perform this;

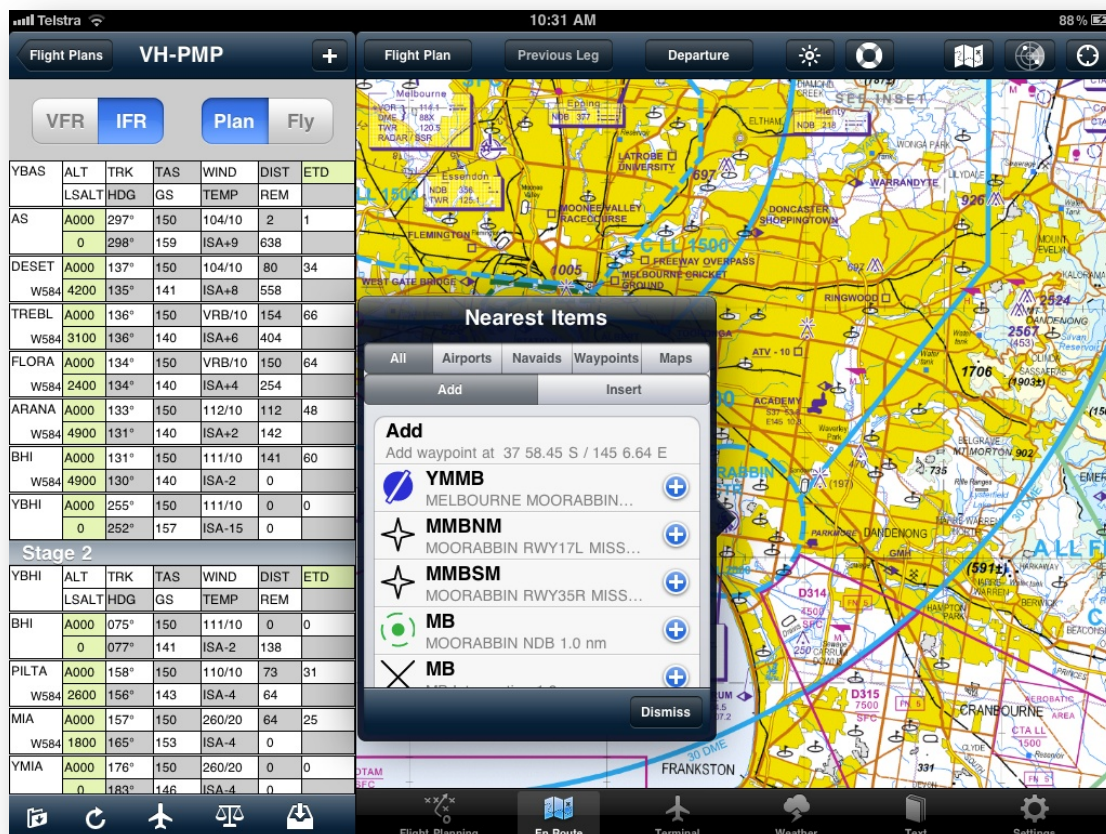
- Tap and hold on a waypoint. The icon will grow and dim.
- Move your finger to the new point, dragging the waypoint.

When you release your finger, the nearest item view appears. A new point can be selected, or a user waypoint created at that point.

The current flight plan is overlaid on the map. The legs are colour coded as follows;

- All future legs are **Red**
- The current leg is **Magenta**
- The legs already flown are **Blue**

5.1 NEAREST ITEMS



When tapping on a map the nearest items view appears. This view shows the nearest Airports, Navigational Aids, Waypoints and Maps at the location tapped.

The 'Add | Insert' button changes the behavior when the '+' is tapped on a row in the table;

- In 'Add' mode the point is added at the end of the flight plan
- In 'Insert' mode another table of all plan waypoints appear, and the waypoint to insert before can be selected

The first item in the table allows a user waypoint to be created at that location. When returning to the original view, this point can be added or inserted into the plan.

Selecting a map opens that particular map.

5.2 RADAR OVERLAY

The BoM radar overlay displays a continuous loop of radar information for the last hour. The radar feed is refreshed every 10 minutes, and lags the BoM radar by approximately 5-10 minutes.

6 TERMINAL



The Terminal pane displays information at a particular place on the flight plan, or any specific location. By scrolling left and right specific pages in the ERSA or DAP can be displayed. By two-finger tapping on the view, a series of icons representing each page appears, so a particular chart can be found quickly.

In addition, information about any airport or navigational aid (not associated with an airport) can be found by selecting the book icon on the top right on the window. An airport or navigational aid can be searched, and if automatic weather downloads are enabled, a weather forecast is downloaded and is available on the weather page.

6.1.1 Weather Page

The weather page on the Terminal pane displays the plan details at that flight plan leg, and applicable TAF and NOTAM information. In addition the weather page can change the flight rules for a leg from VFR to IFR (or visa versa), and change that point to be a landing point.

When viewing a flight plan point on the weather page, a delay can be added for the point by entering a time in the delay field (in the format HHMM). Aerial work at a point is added as a delay in this section. To clear a delay, enter nothing, or enter '0000'.

Comments for a flight plan stage can be added in the Remarks row, and will be automatically applied to Section 18A of the flight plan.

Fuel burn and Fuel on Board are also displayed for each leg of the flight plan

6.1.2 Landing Points

Creating a landing point adds a new stage to the plan. Landing points can only be created at airfields, navigational aids with an associated airport, or user waypoints.

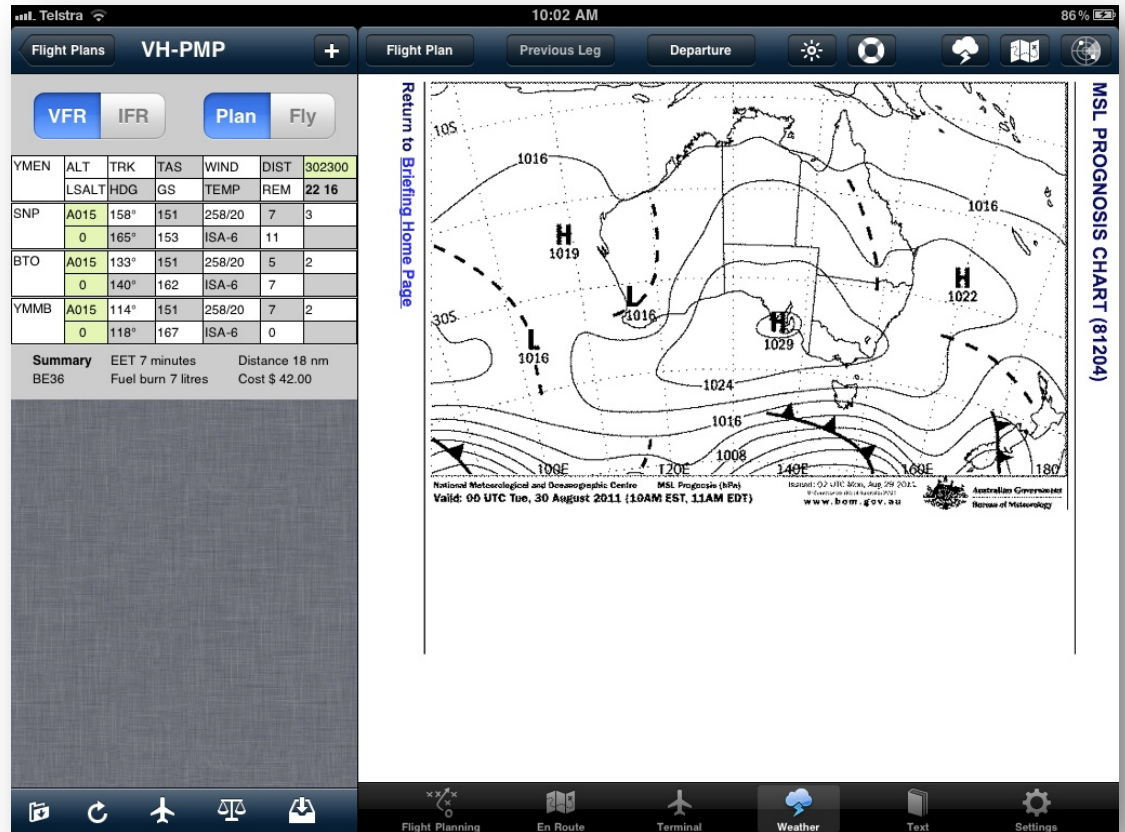
Landing points can be removed from the plan by selecting the takeoff point on the next stage and selecting 'Overfly'.

6.1.3 ERSA/DAP

The ERSA and DAP pages are available by scrolling right from the weather page. These are always in the order of ERSA, RDS and then all DAP pages.

The app remembers which page for which point is being viewed. If you use the flight plan page to switch between which leg is viewed in the Terminal page, it will reopen at the page last viewed at that point.

7 WEATHER



The Weather pane displays weather related information.

7.1 FORECASTS

The storm icon displays downloaded NAIPS forecasts. These forecasts display whether a SIGMET is current in the forecast. Selecting a forecast opens it on the page. All downloaded forecasts are saved and are available offline.

7.2 NAIPS CHARTS

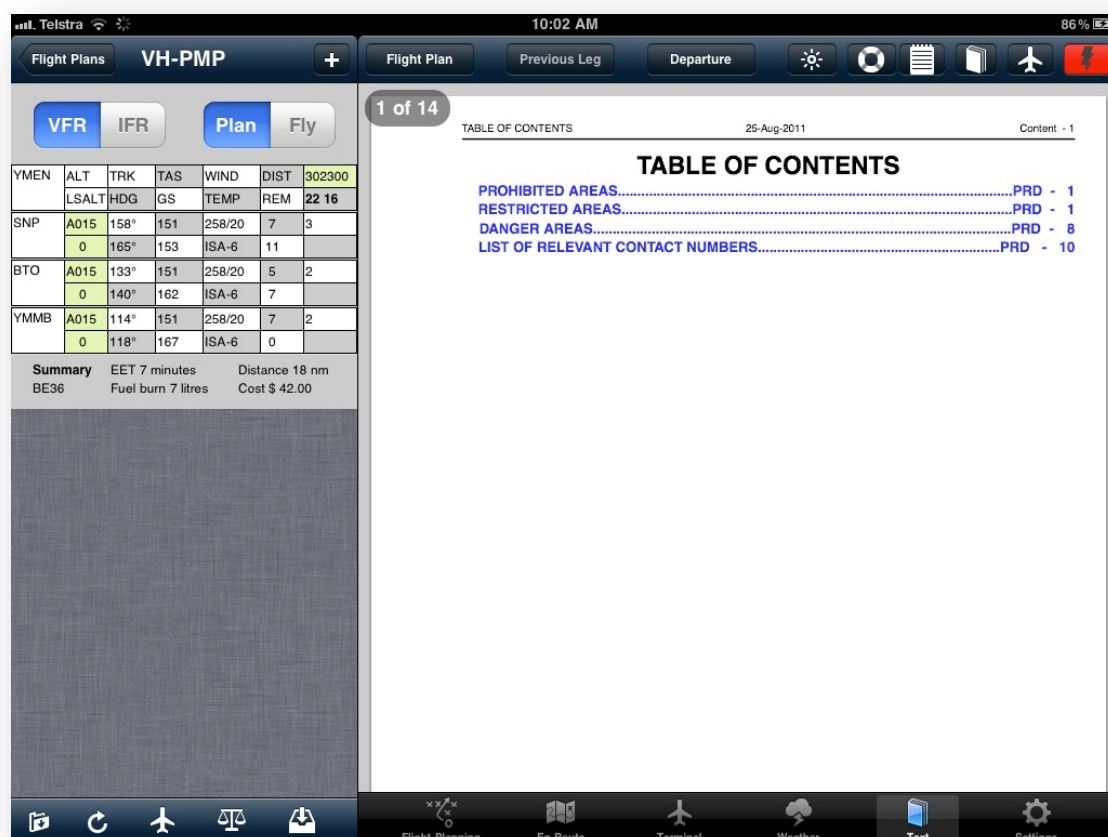
The Map button opens a window allowing any current NAIPS charts to be displayed. NAIPS charts are automatically rotated as required. These charts can be zoomed using the usual pinch-zoom action.

Downloaded NAIPS charts are currently not saved for offline use.

7.3 BOM RADAR

The Radar button opens a table allowing the BoM radar at a location to be downloaded and viewed. The radars, which the active flight plan cross are marked with a tick.

The radar view overlays the current location and flight plan onto the radar image.



8 TEXT

The Text pane displays various documents.

8.1 ERSA/DAP GENERAL

The Notepad button opens the ERSA/DAP General pages.

8.2 AIP

The Book button opens the Australian AIP.

8.3 POH

The Aircraft button opens the Pilot Operating Handbook (if available).

8.4 EMERGENCY

The Lightning button opens the ERSA Emergency pages for quick access.

9 SETTINGS



9.1 DATA DOWNLOADS

The Data Downloads page allows the various charts applicable for your subscription to be downloaded and saved on your device for offline use.

If a new database version is available and has been downloaded, this can be selected at the top of the page, and the applicable downloads made in advance, prior to that database becoming active.

Charts can be downloaded by pressing <Download>. These are then saved for use and will remain on your device until they expire (when the validity period for the chart expires) or are deleted. Charts that have been downloaded appear with a <Delete> button, to enable the chart to be deleted.

If an updated database has been downloaded, this will appear at the top of the data downloads window. When selecting this new database, the applicable charts and ERSA/DAP information can be downloaded and installed ready for use when the database switchover date arrives.

9.2 DATABASE UPDATE

The Database Update page displays the current status of your subscription, details about the active database and other saved information.

When this page is opened, a query is made to check for the current and next database versions. If a new database version is available the user is prompted to download.

New database versions will be made available approximately two weeks prior to the current database expiring.

This is also the window which appears when the application restarts.

9.3 USER SETTINGS

The user settings page allows the user to link the app to the avsoft.com.au website. Either sign up here, or enter your sign-in details used to sign up to the website.

Currently this is used when subscriptions are made via our website.

In addition, if you have created an account here, your aircraft details are saved and will be synced across your devices.

9.4 SUBSCRIPTIONS

The subscriptions page allows subscriptions to be purchased via the app. We recommend subscribing via our website at www.avsoft.com.au for cheaper rates (as it bypasses the large Apple royalty).

9.5 LICENSE

This view displays the license information for the application which was agreed to when the application was first installed.

10 AIRCRAFT MODELS

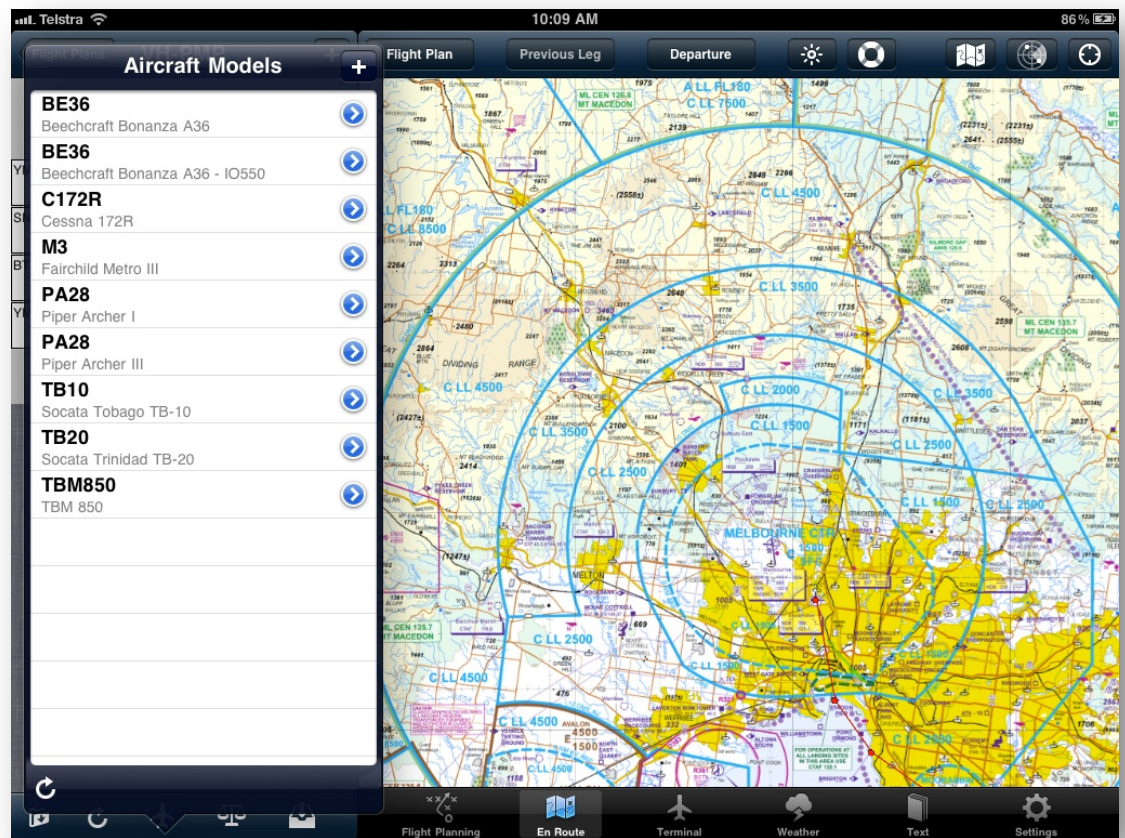
The AvPlan application has a concept of aircraft models, and then individual aircraft of that model type.

Aircraft types are a particular aircraft that share performance and loading characteristics. These would be aircraft of a particular model type, year etc (C172R, V35B Bonanza, TBM-850 etc). An aircraft has a single set of performance characteristics, loading scheme etc.

From an aircraft type, an individual aircraft is created. These have a distinctive call sign, weight, empty arm, avionics etc.

There are a number of example types and aircraft available when installing the app for the first time. Use these as a guide when creating your aircraft models.

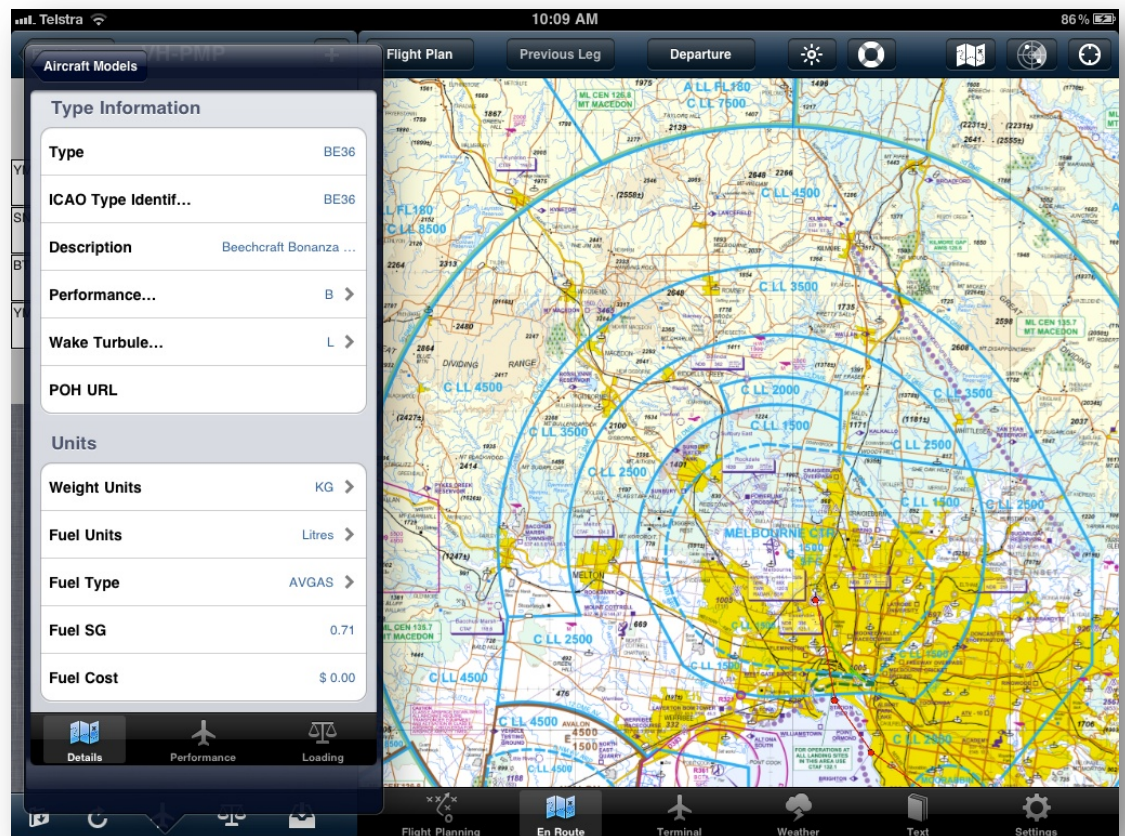
10.1 CREATING/EDITING AN AIRCRAFT TYPE



To create an aircraft type;

- Select the Aeroplane icon at the bottom of the flight plan table and a window titled 'Aircraft Models' appears.
- To create a new aircraft type, press '+'
- To edit an existing type, press the '>' button

A window with three tabs ('Details', 'Performance', 'Loading') appears.



10.1.1 Details

The details window allows information to be entered such as;

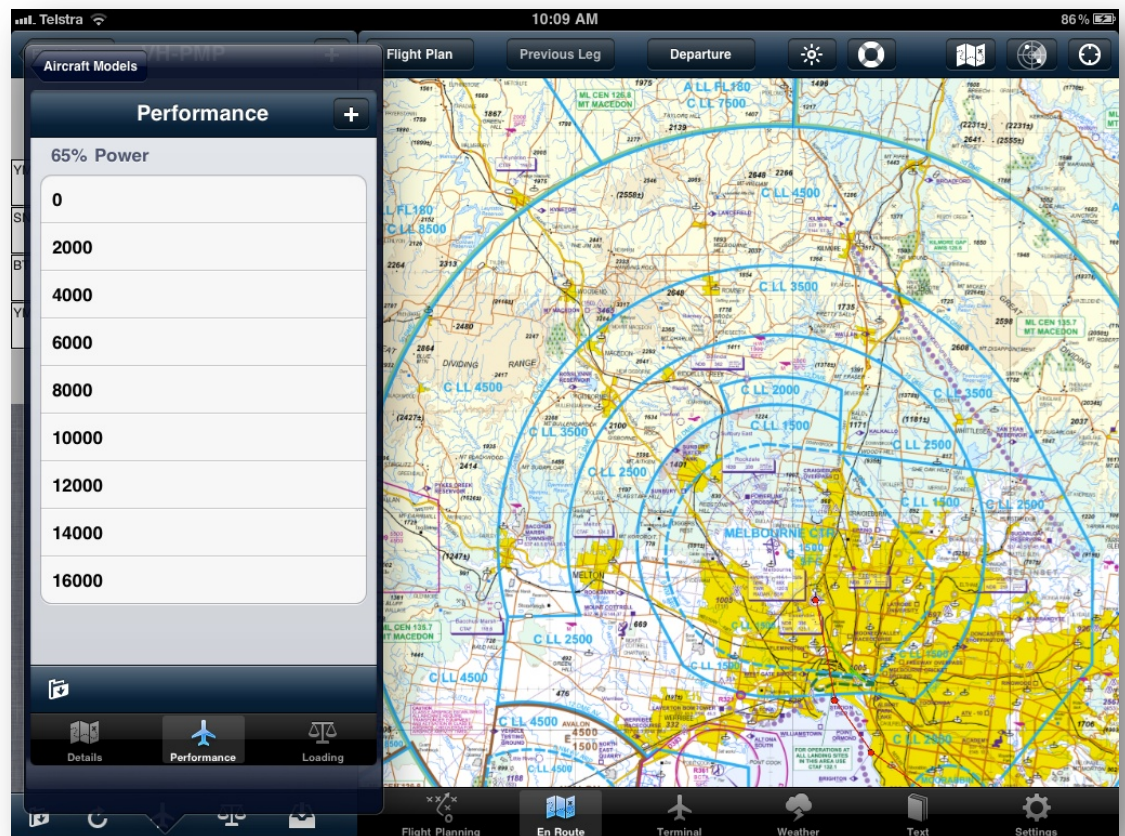
- Type name
- ICAO Type Name (Required when submitting a plan to NAIPS)
- Description
- Performance Category
- Wake Turbulence Category
- POH web link

The Units section allows the various units for data entry to be selected. These can be changed and the data automatically updates (The details from the POH can be entered in Pounds and USG, and then the units changed to KG and Litres for Australian use)

The basic performance section allows a generalized performance model to be entered.

The ICAO type identifier for your aircraft can be found at <http://www.icao.int/anb/ais/8643/> . If your aircraft has no ICAO type, enter ZZZZ.

10.1.2 Performance



The performance tab allows a detailed performance model for the aircraft type to be created. This is given a name (more than one performance model per type is supported) and then a model built up of series of altitudes and the performance at that altitude.

To create a detailed model, select the Performance tab;

- Press '+' to create a new performance model
- Enter a suitable name (e.g. '75% Power')
- Press 'Performance' to go back

You will see that the new performance model has been created, but is empty.

To build the performance model

- Select the 'Edit' button on the bottom of that window.
- Press 'Add' to add a new row.

The values from the flight manual can then be added for a row. Go back to the 'Performance' view and add rows as required.

10.1.3 Loading

To edit the loading values for an aircraft type;

- Select the Loading pane
- Select the edit button at the top of the view.

Add buttons for the loading envelope, loading stations and Fuel Tanks will appear.

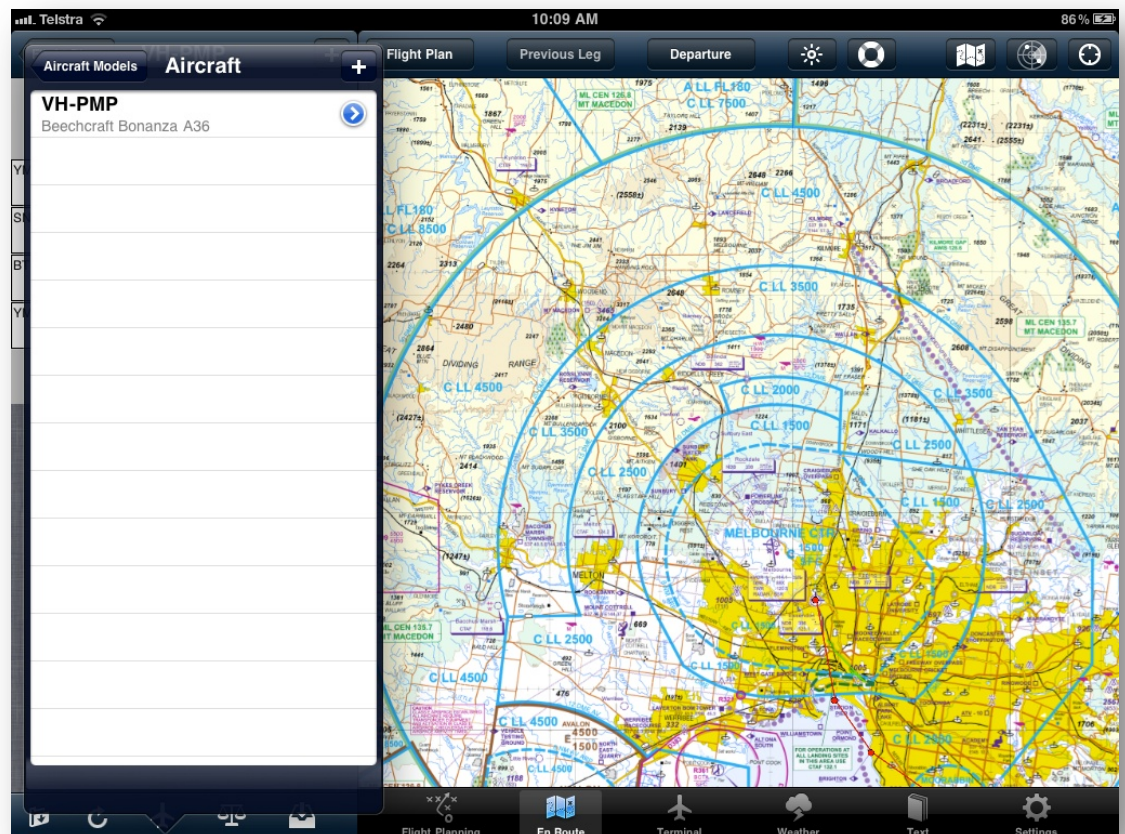
Add the loading envelope as a series of points, starting at one edge of the envelope, and working clockwise around the envelope. Points can be moved in the table using the button on the right hand side of the row.

Load stations can be similarly added. They can be rearranged in a logical order and this will appear in the same order on the Weight and Balance page.

Fuel tanks can be added. The order of the tanks in this view determines the fuel burn order. Fuel is burnt from the top tank down.

Press the return key when entering information or changes may be lost during this process.

10.2 CREATING AN AIRCRAFT



After creating an aircraft type, an individual aircraft can be created.

- Select an aircraft type in the 'Aircraft Type' view.
- Select '+' to add a new aircraft
- Select '>' to edit an existing aircraft

The 'Edit Aircraft' view will appear. This enabled various details about the aircraft to be set such as colour, avionics, hourly rate, loading to be set.

10.3 DELETING AN AIRCRAFT

An aircraft type or individual aircraft can be deleted by swiping the particular row in the table. When this is done a delete button appears and the aircraft is removed.

11 CREATE A FLIGHT PLAN

11.1 ADD LEGS

Flight plan legs can be created in a number of different ways;

- Adding legs using the Add Waypoint button ('+' on the top left of the flight plan table). Waypoints can be searched using the identifier or full name.
- Using the Nearest Items view. Press on a map near where the waypoint is and press '+',

When creating an IFR plan, intermediate navigational aids, intersections and reporting points are automatically added when the beginning and end point share the same designated IFR routes. In addition, LSALT's are added automatically when they are available.

At any point an altitude can be entered or aircraft can be selected, and then various TAS and time intervals will be calculated.

Weather information for your plan is automatically downloaded and winds applied to your plan as it is created. Forecasts can be refreshed using the Refresh button at the bottom of the flight plan. When away from internet access, winds can be entered for each leg when the plan is in edit mode.

High level winds are downloaded and are valid at the ETA for that track point, or 1.5 hours from the current time if no planned ETD has been set for the plan.

A new stage can be added by selecting a leg in the plan (which will open the Terminal pane) and selecting 'Land'

11.2 ENTER AN ALTITUDE

At any point an altitude can be entered and then various TAS and time intervals will be calculated. Altitudes will auto-fill down the plan in 'Plan' mode.

11.3 ADD AN AIRCRAFT

Select the Aeroplane icon to select an aircraft from the aircraft type library

11.4 ENTER AN ETD

Select the green field marked 'ETD' to set an estimated departure time for your flight

11.5 ADD FUEL

Select the loading button (which will open the Flight Planning pane at the loading view) and add fuel to your aircraft.

11.6 SUBMIT YOUR PLAN

Select the Submit Flight Plan button to send your flight details to Airservices Australia. Enter your details and a SARTIME as appropriate for your flight.

Common errors are;

- Invalid endurance – Check fuel load
- Invalid ETD – Check and reenter departure time (it may be the wrong day if it was entered over 24 hours ago)

12 WEATHER

12.1 VIEW A FORECAST

To view a forecast, select the Weather pane, then the Cloud button to display a list of downloaded forecasts.

Pressing the 'Refresh' button on the bottom of the flight plan will download new forecasts for your flight.

To view and download a forecast for a point not on your plan, enter the Terminal pane, and search for the airport at or near the location. When the airport is selected a forecast for that point will be downloaded.

13 SUPPORT

Support for the app can be contacted at support@avsoft.com.au. In addition a FAQ is available at www.avsoft.com.au/questions.