



*Easy*Plan

Copyright © 2023
AviationDirect (Pty) Ltd.

*For questions or assistance
please contact :*

AviationDirect (Pty) Ltd
info@aviationdirect.co.za
Tel. +27 11 465 2669 or
+27 72 340 9943



How EasyPlan came about...



In or around 1997, Stephen Hunter, an electrical engineer, embarked on his journey to become a pilot, training at Grand Central Airport. However, he soon found that manually planning flight routes was cumbersome, so he began programming basic flight planning algorithms on a computer, tailored specifically for South African aviation requirements.

This innovative solution garnered significant interest among pilots and proved to be highly successful.

Subsequently, Stephen Hunter joined forces with Andrea Antel, author of the "**Airfields for Southern Africa**" book, which had been published since 1997. Together, they embarked on a joint venture to enhance and expand the software. Through their collaboration, the software evolved into EasyPlan, which quickly became a favourite among pilots and charter operators alike.

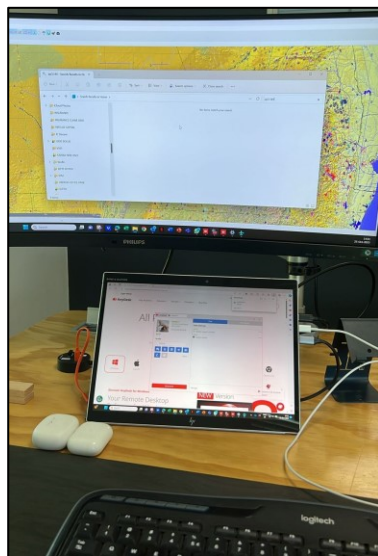
With continuous improvements and the addition of new features, EasyPlan solidified its position as one of the most popular flight planning software in Southern Africa. The input and support from professional pilots, along with assistance from SACAA inspectors in navigating legal requirements, further enriched the software's development.



Airport Frequencies	
Frequency	Channel
ATIS	ATIS
Unicom	Unicom
Tower	Tower
CTAF	CTAF
FSS	FSS
UNICOM	UNICOM
Emergency	Emergency
Long Time	Long Time

What's

Easy
Plan



- Flight Planning on a **bigger screen**
- Able to print out flight logs for your kneeboard
- Print out ATC flight plans, airfield info, weight & balance
- Can print maps and vertical navigation
- Export flight plans into format for Garmin, MGL etc.
- File2fly directly with ATNS
- Free Electronic Logbook
- Export your flight plans to EasyCockpit
- View your flown flights on the bigger screen
- Best, Most comprehensive and Up-to-date Aeronautical Information
- Local Support

... and what's



- **In-flight Navigation** App for your Phone and/or tablet
- Take your “**Best, Most comprehensive and Up-to-date Information**” into the Cockpit and have everything at your fingertips
- Has all the normal GPS functionalities
- Can be used autonomously
- View your recorded flights in EasyPlan or Google Earth
- Fly your planned routes in Simulation.
- Download actual Weather data during flight, when connection is available.
- Warnings popping up: Terrain, Obstacle Airspace

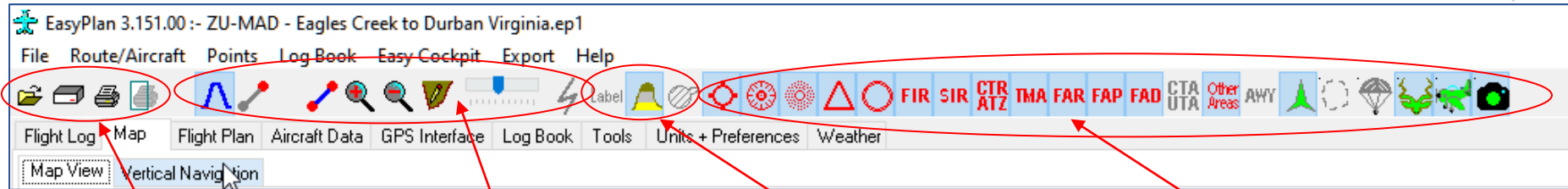
Getting Started - Familiarize yourself with the software

- **Toolbar and**
- **Display options**
- **Settings and setting up your User Preferences**
- **Before starting a flight plan, set up your Aircraft Data as this will define your performance figures like Climb-, Cruising -, Descent speeds as well as Fuel Calculations**
- **Create a flight plan and check all legs**
- **Check weather**
- **File flight plan if required, make sure you have ticked all required points 'in FP' and 'in EET'**
- **Print out flight log**
- **Export your flight plan to GPS devices**

Getting Started

The Toolbar:

Tip: When moving the mouse over the icons, a description panel will come up.



Open/Save/Print Function

When pressing this printer icon, only the page shown on the screen will print, whereas under File – Print, the entire document can be printed.

Task buttons:

- Insert/Remove Descent and Top of Climb points
- Enable/Disable Alternate Airfield
- Auto scale
- Zoom In/Out
- Show/Display South Africa (will zoom out completely)
- Slider to show Map 3D contrast
- Displays Weather after you downloaded the weather data (requires a valid weather subscription)

Map Display

- Labels,
- Ground features On or Off and the
- Display of Areas and Borders add to the ease of use

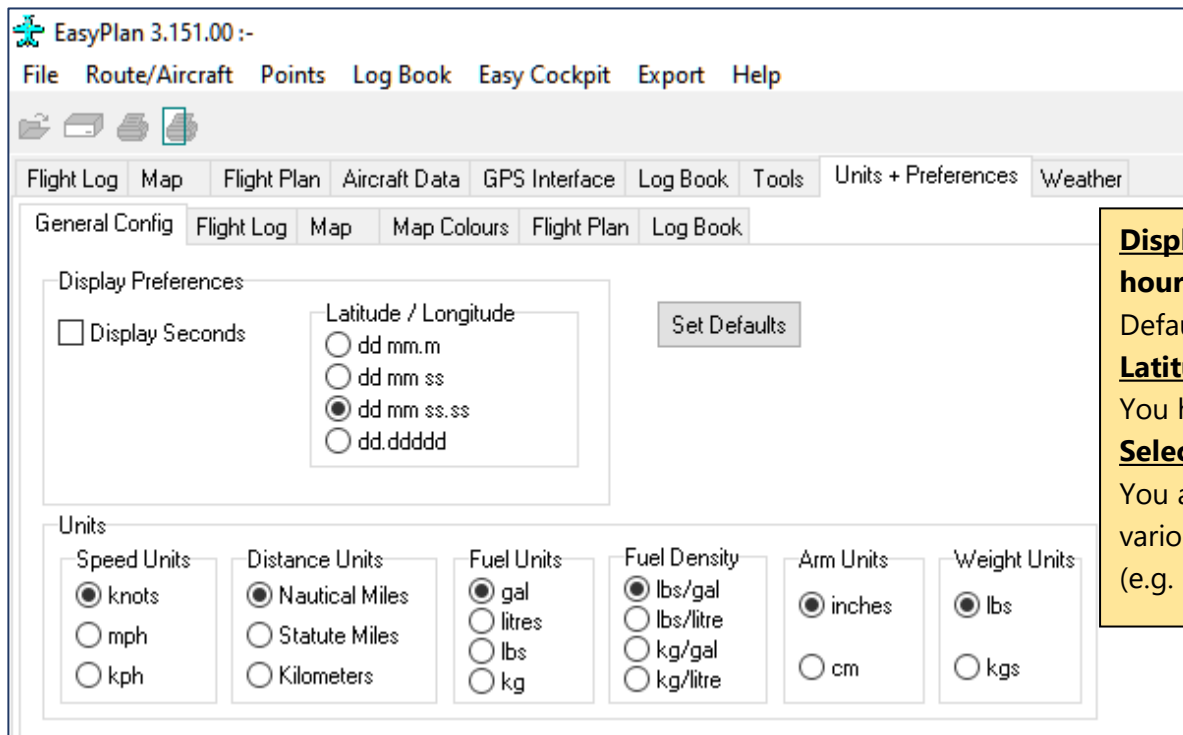
Map Display

Click these Layer icons to select what points, airspace and features you want to see on screen.

STEP 1 - set your USER PREFERENCES

Enter your preferred Units and Preferences, which will be automatically saved on exit.

Units & Preferences: *General Configuration*



EasyPlan 3.151.00 :-

File Route/Aircraft Points Log Book Easy Cockpit Export Help

Flight Log Map Flight Plan Aircraft Data GPS Interface Log Book Tools Units + Preferences Weather

General Config Flight Log Map Map Colours Flight Plan Log Book

Display Preferences

☐ Display Seconds

Latitude / Longitude

☐ dd mm.m

☐ dd mm ss

☒ dd mm ss.ss

☐ dd.ddddd

Set Defaults

Units

Speed Units

☒ knots

☐ mph

☐ kph

Distance Units

☒ Nautical Miles

☐ Statute Miles

☐ Kilometers

Fuel Units

☒ gal

☐ litres

☐ lbs

☐ kg

Fuel Density

☒ lbs/gal

☐ lbs/litre

☐ kg/gal

☐ kg/litre

Arm Units

☒ inches

☐ cm

Weight Units

☒ lbs

☐ kgs

Display Seconds: Display flight times in **hours : minutes : seconds.**

Default is set to hours: minutes.

Latitude/Longitude: Select display mode. You have various options.

Select preferred units of measurement.

You are also able to change Units within the various screen options by clicking on them. (e.g. in the FlightLog window)

Units & Preferences: *Flight Log*

EasyPlan 3.151.00:-

File Route/Aircraft Points Log Book Easy Cockpit Export Help

Flight Log Map Flight Plan Aircraft Data GPS Interface Log Book Tools Units + Preferences Weather

General Config Flight Log Map Map Colours Flight Plan Log Book

Flight Log

☐ Offset Columns

☐ Display Short Headings

☒ Print Clearances

☒ Print Notes

☒ Print Airfield Info

Print Size of Info

☒ Small

☐ Medium

☐ Large

☐ X Large

Flight Log Print Format

☐ Original

☐ Fixed Format 1

☐ Fixed Format 2

☐ Gyrocopter

☒ Part135

☐ Name

☒ Designation

☐ In Flight Plan

☐ In EET

☒ Frequency

☒ Nav Frequency

☐ Elevation

☐ Latitude

☐ Longitude

☐ Magnetic variation

☒ TrueAir speed

☐ Wind direction

☐ Wind speed

☐ Compass deviation

☐ Fuel Consumption

☐ Fuel Used

☒ Fuel Remaining

☐ True track

☒ Magnetic track

☐ QTE

☐ QUJ

☐ QDR

☐ QDM

☐ True heading

☐ Magnetic heading

☐ Compass heading

☒ Height / Altitude

☒ Ground speed

☒ Leg Distance

☒ Accumulated distance

☐ Distance Remaining

☒ Leg time

☒ Elapsed time

☒ Expected arrival

☒ Expected arrival 1

☒ Actual arrival

☐ Additional Notes

☐ En Route Info

☐ Fuel to Destination

☐ Min Safe Altitude

☐ Grid Mora

Set Columns back to Default

Change column order by dragging column. (Only possible if Flight Log has no points)

Offset Columns : Enroute information, applicable on the leg between two points, is displayed offset between the two points.

Display Short Headings : Display abbreviated headings in flight log

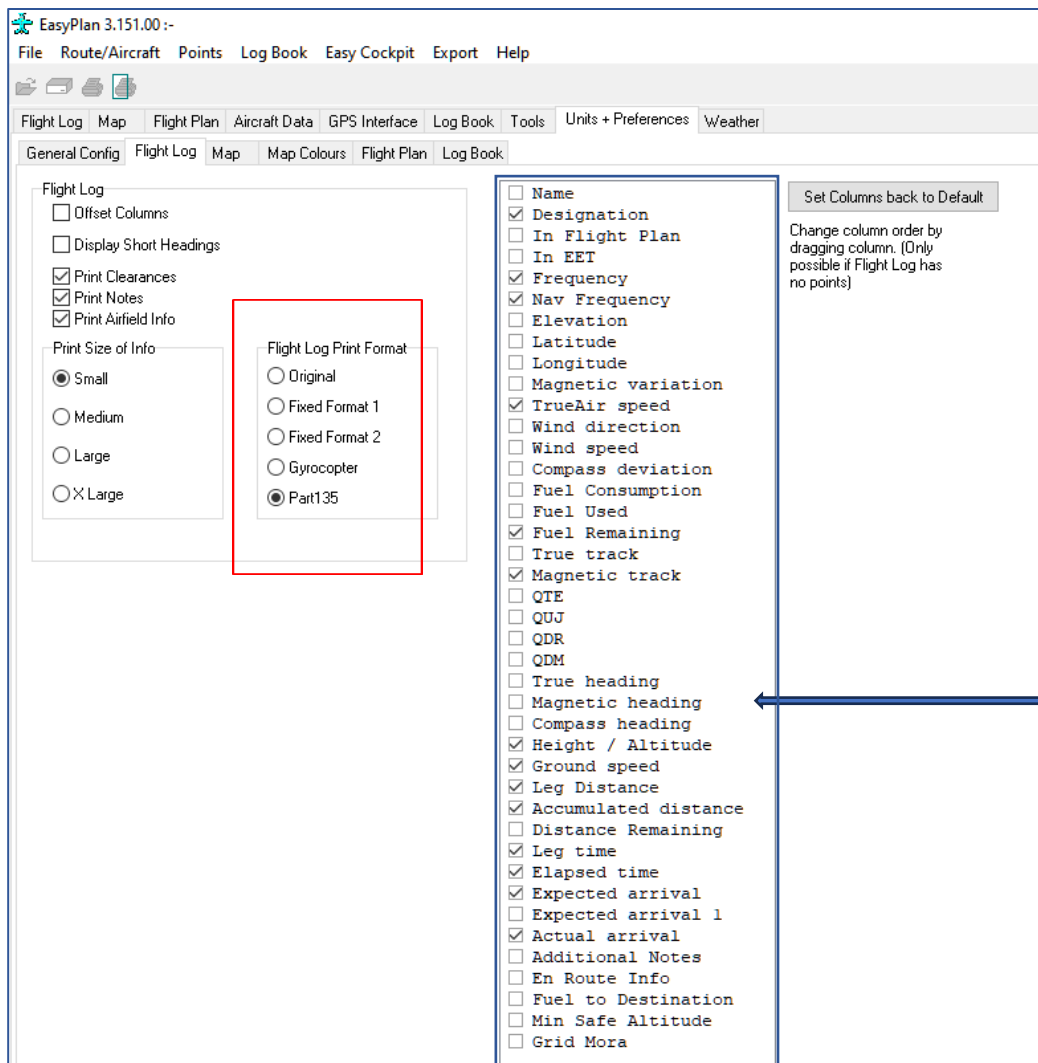
Print Clearances form : Prints form to write down ATC clearances, and enroute navigation info.

Print Notes : Prints notes associated with this route.

Print Airfield Info : Additional information on airfields, contained in the EasyPlan database, that are part of the route can be printed with the flight log. Select the size required. Select "Small" and then print in Landscape mode - works well for creating a printout that can be used on an A5 kneeboard.

Switch off "Print Clearances", "Print Notes", "Print Airfield Info" and select landscape mode to print the Flight Log (Original) across the entire width of an A4 page.

Units & Preferences: *Flight Log*



EasyPlan 3.151.00:-

File Route/Aircraft Points Log Book Easy Cockpit Export Help

Flight Log Map Flight Plan Aircraft Data GPS Interface Log Book Tools Units + Preferences Weather

General Config Flight Log Map Map Colours Flight Plan Log Book

Flight Log

☐ Offset Columns

☐ Display Short Headings

☒ Print Clearances

☒ Print Notes

☒ Print Airfield Info

Print Size of Info

☒ Small

☐ Medium

☐ Large

☐ X Large

Flight Log Print Format

☐ Original

☐ Fixed Format 1

☐ Fixed Format 2

☐ Gyrocopter

☒ Part135

☐ Name

☒ Designation

☐ In Flight Plan

☐ In EET

☒ Frequency

☒ Nav Frequency

☐ Elevation

☐ Latitude

☐ Longitude

☐ Magnetic variation

☒ TrueAir speed

☐ Wind direction

☐ Wind speed

☐ Compass deviation

☐ Fuel Consumption

☐ Fuel Used

☒ Fuel Remaining

☐ True track

☒ Magnetic track

☐ QTE

☐ QUJ

☐ QDR

☐ QDM

☐ True heading

☐ Magnetic heading

☐ Compass heading

☒ Height / Altitude

☒ Ground speed

☒ Leg Distance

☒ Accumulated distance

☐ Distance Remaining

☒ Leg time

☒ Elapsed time

☒ Expected arrival

☐ Expected arrival 1

☒ Actual arrival

☐ Additional Notes

☐ En Route Info

☐ Fuel to Destination

☐ Min Safe Altitude

☐ Grid Mora

Set Columns back to Default

Change column order by dragging column. (Only possible if Flight Log has no points)

Flight Log Print Formats

Original - Prints the flight log as displayed on the screen, using the same columns selected.

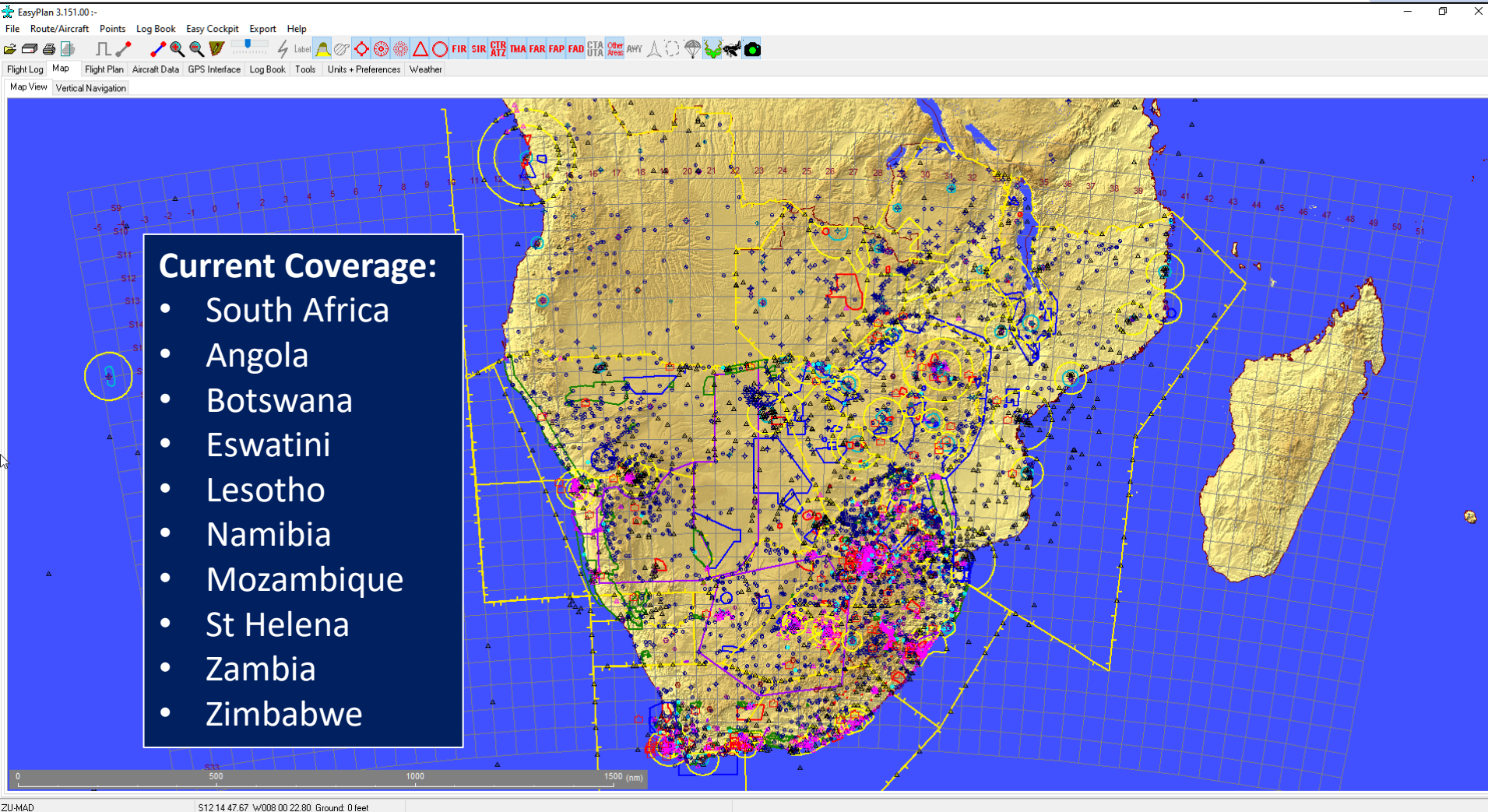
Fixed Format : Recommended print setting. Prints the flight log in a fixed format irrespective of the columns selected. This mode automatically detects if wind has been entered and modifies the printout accordingly.

The **Order** of the displayed and (to be) printed columns of the Flight log can be re-arranged:

- Left Click and hold down on the Column Name;
- Move/drag to desired position while holding down the mouse key.
- Then release.

This option only works when no flight plan/log is open.

Map Display



Units & Preferences - Map Display

EasyPlan 3.150.10 :-

File Route/Aircraft Points Log Book Easy Cockpit Export Help

Flight Log Map Flight Plan Aircraft Data GPS Interface Log Book Tools **Units + Preferences** Weather

General Config Flight Log **Map** Map Colours Flight Plan Log Book

Display of Map Ground Features

- ☒ Road
- ☒ Rail
- ☒ Rivers
- ☒ Dams
- ☒ International Borders
- ☒ Populated Areas
- ☒ Elevation
- ☒ 3D Elevation Gradient
- ☒ Hi Definition Elevation

Display of Map Ground Features

- Select the items to be displayed on the map.
- The elevation can be displayed using darker colours for the higher ground, or using a 3D effect. (Map Colours)
- Hi Definition Elevation. High definition elevation data will be displayed when zooming in, if the files are available. This option uses data supplied by NASA with a resolution of about 90 meters.

Units & Preferences - Map Display

EasyPlan 3.150.10 :-

File Route/Aircraft Points Log Book Easy Cockpit Export Help

Flight Log Map Flight Plan Aircraft Data GPS Interface Log Book Tools **Units + Preferences** Weather

General Config Flight Log **Map** Map Colours Flight Plan Log Book

Filter Level

☐ All

☒ Main

☐ National

Auto Filter Detail

☐ All

☐ More Detail

☐ Normal

☒ Less Detail

Ground Feature Hint

☐ Off


☐ Hint Only

☒ Hint and Highlight

Filter Levels

- **Filter Level:** Select "Main" or "National" to display only main or national roads irrespective of the zoom.
- **Auto Filter Detail:** if enabled, less terrain detail is displayed as one zooms out, and more detail as one zooms in. Select "Less Detail" if the map is too cluttered.
- **Ground Feature Hint:** If this feature is enabled, then as the mouse is moved over an item the name will be displayed, and if the Highlight option is selected, the colour will turn green. Note this option only works with the updated Terrain Data Base.

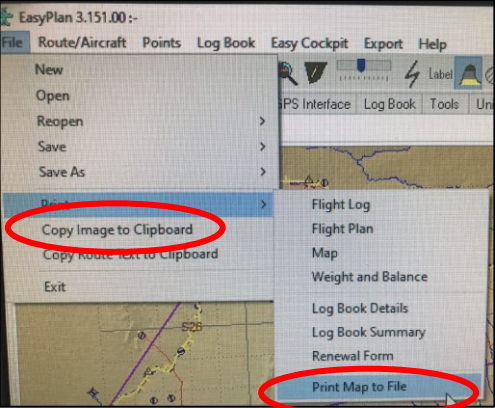
Units & Preferences - Map Display


EasyPlan 3.150.10 :-

File Route/Aircraft Points Log Book Easy Cockpit Export Help

Flight Log Map Flight Plan Aircraft Data GPS Interface Log Book Tools Units + Preferences Weather

General Config Flight Log Map Map Colours Flight Plan Log Book



Printing Map

☒ Print Vertical Nav
☐ Print In Black
☐ Print Screen Colours
Print Terrain Elevation
☒ Off
☐ Light Colour
☐ Normal Colour
☐ Save Print Image

Printing Map

- **Print Vertical Nav:** - Prints the vertical navigation information along with the map.
- **Print In Black :-** Some of the lighter colours are not printed when printing in black. Select this option so that all items on the map are printed in black.
- **Print Terrain Elevation :**
 - Recommended OFF. When ON, it will print the shaded background of the elevation in light or normal colour. This can take some time and ink, depending on the printer.
- If this function does not work with your printer, then use "File" "Print" "Print Map to File" to create a bitmap that contains an image of the map. "PrintFile.bmp" which is saved in the "MyDocuments – EasyPlan3" Folder.
- This then can be printed from a program like Word.
- Or you can '**Copy Image to Clipboard**', then paste into a blank Word Document.

Units & Preferences - Map Display

EasyPlan 3.150.10 :-

File Route/Aircraft Points Log Book Easy Cockpit Export Help

Flight Log Map Flight Plan Aircraft Data GPS Interface Log Book Tools **Units + Preferences** Weather

General Config Flight Log **Map** Map Colours Flight Plan Log Book

Aeronautical Borders

- Select the border thickness for items such as TMA's, FAD's etc.
- "Auto" selects thick borders when the ground features are displayed, and thin borders when the ground features are switched off.
- Aeronautical Symbols Selects the size of the symbols, i.e. Airfields, VORs.
- Auto scales the size according to display zoom.
- Track Width (miles)

Filters

- Reporting Point Filter**
- Airways Filter**
Please note, currently only Lower ATS routes are available.
- Airfield Filter**
- Display Labels** - Select which items to label on the map. Note that the display "Display Labels" button on the Toolbar must be selected.
- Airspaces in Vertical Navigation

Aeronautical Borders

☒ Auto
☐ Thin Lines
☐ Thick Lines

Aeronautical Symbols

☒ Auto
☐ Small
☐ Medium
☐ Large
☐ Extra large

Track Width (miles)

☐ 1
☐ 2
☐ 5
☒ 10
☐ 20

Reporting Point Filter

☒ All
☐ IFR
☐ VFR

Airways Filter

☒ Lower ATS
☐ Upper ATS
☐ RNAV

Airfield Filter

☐ Not Heliport or Microlight
☐ Registered
☐ Un-registered
☒ All
☐ Microlight
☐ Fuel Available
☐ Heliport

Display Labels

☐ Label Roads
☐ Label Rail
☐ Label Rivers
☐ Label Dams
☐ Label Towns
☐ Label Air Spaces
☐ Label Airfields
☐ Label VORs
☐ Label NDBs
☐ Label Reporting
☐ Label Other
☐ Shorten Names
☐ Label Route
☐ Airspaces in Vert. Nav

Units & Preferences – Map Colours

EasyPlan 3.151.00 :-

File Route/Aircraft Points Log Book Easy Cockpit Export Help

Flight Log Map Flight Plan Aircraft Data GPS Interface Log Book Tools Units + Preferences Weather

General Config Flight Log Map Map Colours Flight Plan Log Book

General Colours

- Label Text
- Grid Lines
- Ruler Text
- Ruler
- Background
- Sea
- Runways
- Runway Center

Set Default

Area Colours

- FIR
- CTR/ATZ
- TMA
- FAR
- FAP
- FAD
- UTA/CTA
- Other
- Airways
- NationalParks

Set Default

Point Colours

- Airfields
- Microlight
- VOR
- VOR-DME
- NDB
- IFR Reporting
- VFR Reporting
- Other
- Helipoint

Set Default

Terrain Colours

- Int. Borders
- Rivers
- Dams
- Roads
- Rail
- Pop. Areas

Set Default

Route Colours

- Highlight Colour
- Route Colour
- Point Colour
- Alternate Point

Set Default

Other Colours

- ☐ Wind Symbol
- ☐ Obstacles

Set Default

Gnd Elevation Colours

- Sea Level
- 1000 FT
- 2000 FT
- 3000 FT
- 4000 FT
- 5000 FT
- 6000 FT
- 7000 FT
- 8000 FT
- 9000 FT
- 10000 FT
- 11000 FT
- 12000 FT

Set Default:

1	2	3	4
5	6	7	8

Selecting Map Colours

The colours of all the features on the map can be changed by clicking on the coloured blocks and use the colour sliders to select your favourite colour or the one that works best for you.

This is useful for the elevation colours when each colour is an incremental change from the previous.

Press ok to confirm the change.

Set back to Default if that works better for you.

BLACK SCREEN

If you experience a sudden **BLACK SCREEN** when opening EasyPlan, Then, in Map Colours, set everything **BACK TO DEFAULT**.

Flight Plan

EasyPlan 3.150.10 :-

File Route/Aircraft Points Log Book Easy Cockpit Export Help

Flight Log Map Flight Plan Aircraft Data GPS Interface Log Book Tools Units + Preferences Weather

General Config Flight Log Map Map Colours Flight Plan Log Book

Flight Plan

☒ Automatically Update FP

☒ Use Cruising Speed

Country: REPUBLIC OF SOUTH AFRICA

Automatically Update Flight Plan:

- All route changes are automatically updated in the Flight Plan.
- If you have made some **special changes** to the Flight Plan, and don't want them over-written, clear this option.
- Use cruising Speed: Use the aircraft cruising speed in the Flight Plan. This is the preferred way.
- Select the country to display the country name on the Flight Plan heading

FlightPlan Update and Check

In your flight plan window you also UPDATE AND CHECK the Flightplan. EasyPlan will warn you of missing points.

EasyPlan 3.151.00 :-

File Route/Aircraft Points Log Book Easy Cockpit Export Help

Flight Log Map Flight Plan Aircraft Data GPS Interface Log Book Tools Units + Preferences Weather

Aircraft info

7 Aircraft identification ZU-MAD 8 Flight rules V ? 9 Number 10 Equipment G/C ?

Type of Flight G ?

Type of aircraft RV7 ? Wake turbulence cat L ?

ICAO FLIGHTPLAN

Route info

13 Departure aerodrome ZZZZ 15 Cruising speed N0165

Time 00:00 Level F085

Route DCT FAHR DCT 2758S02856E DCT FAFF/N0165F075 DCT

16 Destination aerodrome FAOI Total est 02:36

18 Other information Item 18 Select RMK/SAR NML

Supplementary info

19 Endurance 06:16 Persons on board 004

Emergency Radios UHF VHF Elba

Warning

Point missing for heading change: MEYERTON Put in Flight Plan?

Yes No

The logo for 'Easy Plan' features the word 'Easy' in a dark blue, cursive script font, and the word 'Plan' in a bold, orange, sans-serif font. A small, stylized blue airplane icon is positioned to the right of the word 'Easy'.

- The logbook format is according to SACAA Part 61 logbook layout.
- You can use different logbooks if you need to keep separate logbooks for fixed wing, rotary, simulator.
- The Part 62 Recreational Logbook in its simpler format is approved for recreational flying, gliding or microlighting.
- However, remember if you intend to upgrade to a Commercial licence or Instrument Flying, you will require the Part 61 logbook entries.

Tools



EasyPlan 3.150.10 :-

File Route/Aircraft Points Log Book Easy Cockpit Export Help

Flight Log Map Flight Plan Aircraft Data GPS Interface Log Book Tools Units + Preferences Weather

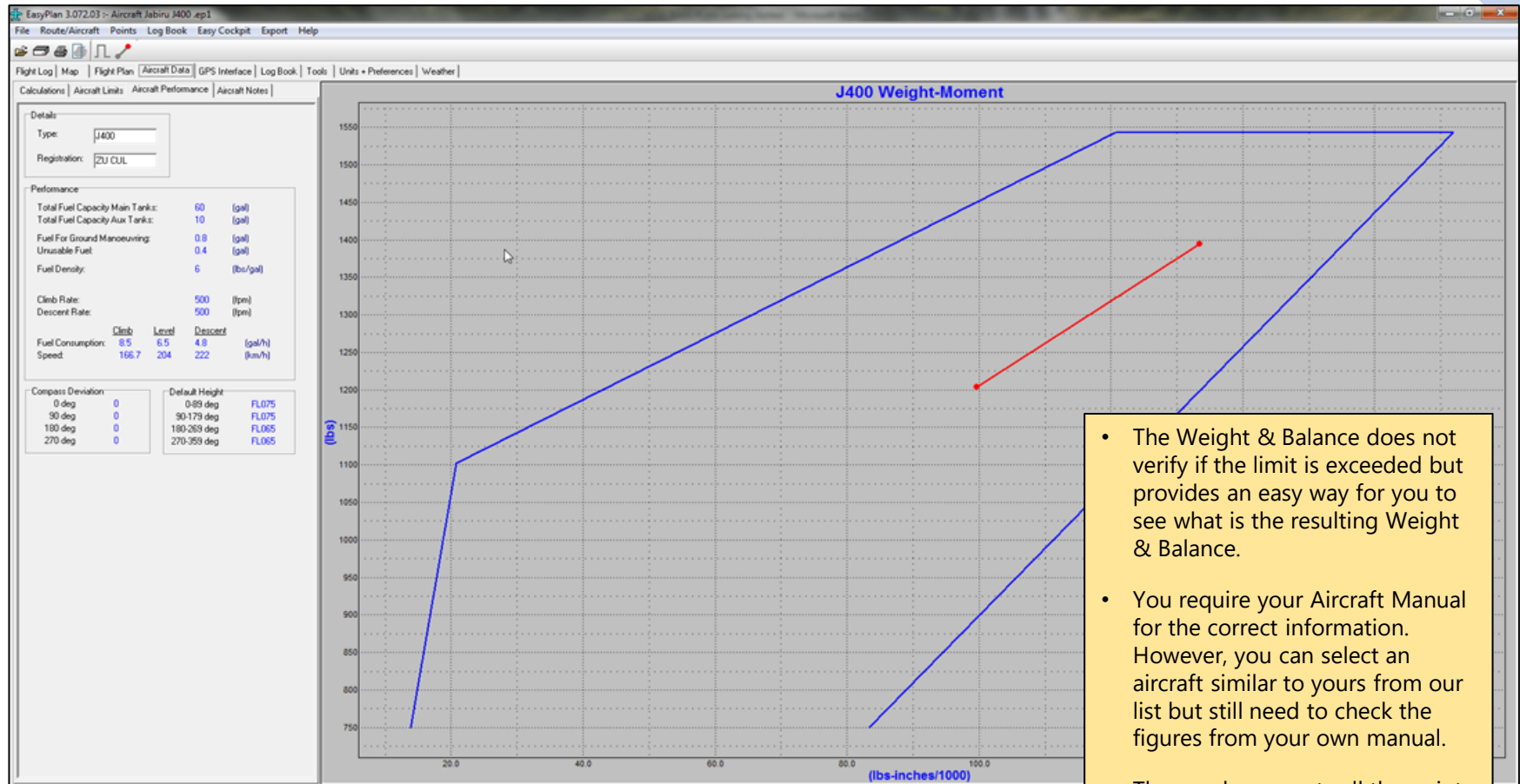
Standard Rate Turns	Sunrise and Sunset
Radius: 800 FT	Latitude: 27 deg S
Bank Angle: 10 deg	Longitude: 29 deg E
Pivotal Height: 0 FT	Day: 7
True Air Speed: 100 (knots)	Month: 11
	Year: 2023
	Sunrise: 03:10
	Sunset: 16:26
Density Altitude	Distance to Horizon
Density Altitude: 10470 FT	Height: 8000 FT
Indicated Air Speed: 85.3 (knots)	Distance: 104.6 (nm)
Outside Air Temp: 21 deg C	
Pressure Altitude: 8000 FT	

A simple calculator, which will automatically work out Standard Rate Turn, Density Altitude, Sunrise & Sunset values, and Distance to the Horizon.

Operation

- The numbers displayed in blue can be changed.
- Right Click to decrease and Left Click to increase a value.
- Pressing **Ctrl** while clicking changes the value by 10 or 100 for the Pressure Altitude.
- Left Click on the 'Units' to change to your Preference.
- No range checking is done on the input values.
- TAS in Standard Rate Turns is used to calculate the IAS in the Density Altitude.

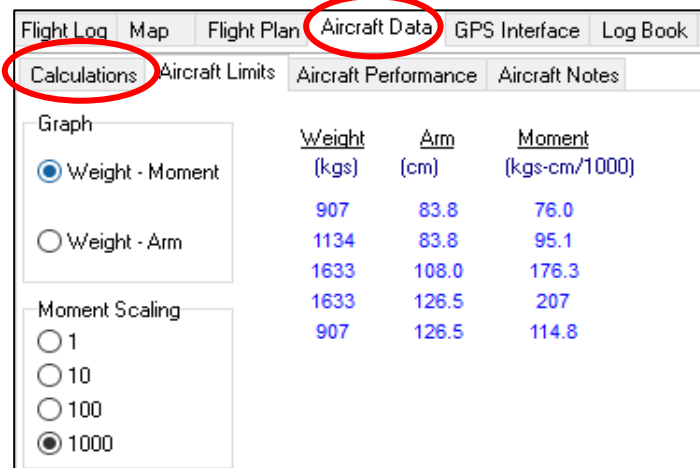
Aircraft Data and Weight & Balance



The Values in this example may not be accurate

- The Weight & Balance does not verify if the limit is exceeded but provides an easy way for you to see what is the resulting Weight & Balance.
- You require your Aircraft Manual for the correct information. However, you can select an aircraft similar to yours from our list but still need to check the figures from your own manual.
- The graph connects all the points described in the Aircraft limits and superimposes the aircraft Weight & Balance with fuel as specified, and with no fuel.

Aircraft Weight & Balance – Calculations

A screenshot of the 'Easy Plan' software interface. At the top, there are several tabs: 'Flight Log', 'Map', 'Flight Plan', 'Aircraft Data' (highlighted with a red circle), 'GPS Interface', and 'Log Book'. Below these, there are more tabs: 'Calculations' (highlighted with a red circle), 'Aircraft Limits', 'Aircraft Performance', and 'Aircraft Notes'. The 'Calculations' tab is active, showing a 'Graph' section with two radio buttons: 'Weight - Moment' (selected) and 'Weight - Arm'. Below the graph is a 'Moment Scaling' section with four radio buttons: '1', '10', '100', and '1000' (selected). To the right of these controls is a table with three columns: 'Weight (kgs)', 'Arm (cm)', and 'Moment (kgs-cm/1000)'. The table contains five rows of data.

Weight (kgs)	Arm (cm)	Moment (kgs-cm/1000)
907	83.8	76.0
1134	83.8	95.1
1633	108.0	176.3
1633	126.5	207
907	126.5	114.8

- Left Click on a value to change it.
- Right Click in the 1st column to add or delete a row.
- Left Click on the 'Units' to change to your preference.
- Note : The arm or the moment can be entered; the other will be calculated automatically.
- The space for fuel calculations can be re-sized by clicking and dragging the top of the panel.
- En-route fuel stops are ignored for fuel calculations.
- Note: Either arm or moment can be entered; the other will be calculated automatically.

How to get started on your Weight & Balance Envelope

You need:

- Aircraft Operators Flight Manual applicable to your aircraft
- Weight (Mass) & Balance Certificate

From the first document you extract the envelope which could be in a diagram format or even in a text format.

Enter in this order:

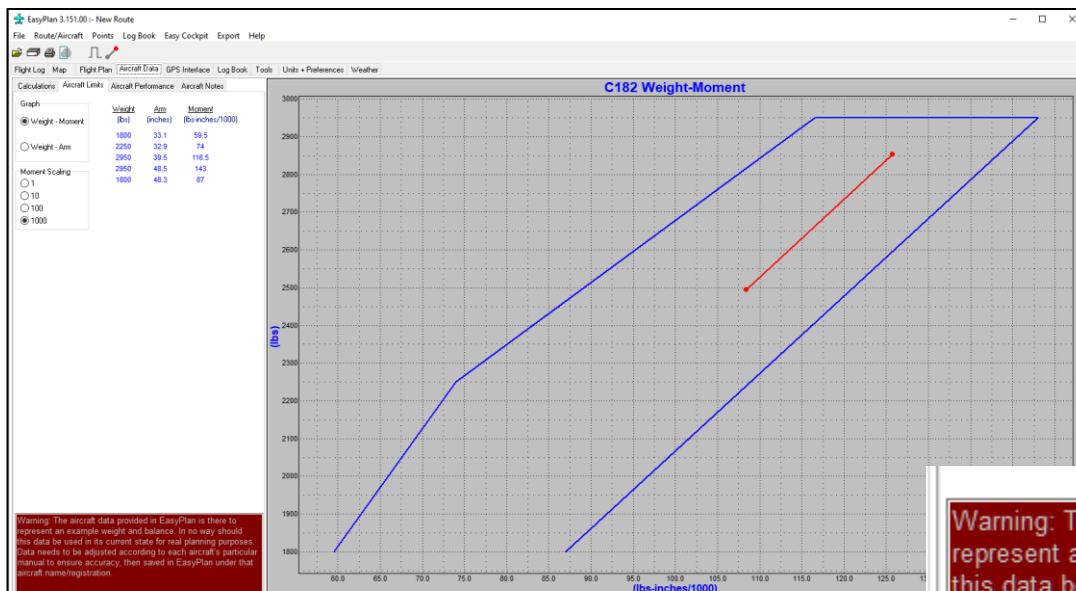
1. empty weight and most forward CoG limit (insert either arm or moment value)
2. max certified weight and most forward CoG limit (insert either arm or moment value)
3. max certified weight and most aft CoG limit (insert either arm or moment value)
4. empty weight and most aft CoG limit (insert either arm or moment value)

Maximum certified weight is published in the Operator's Manual

Empty weight is found on the Weight (Mass) & Balance Certificate

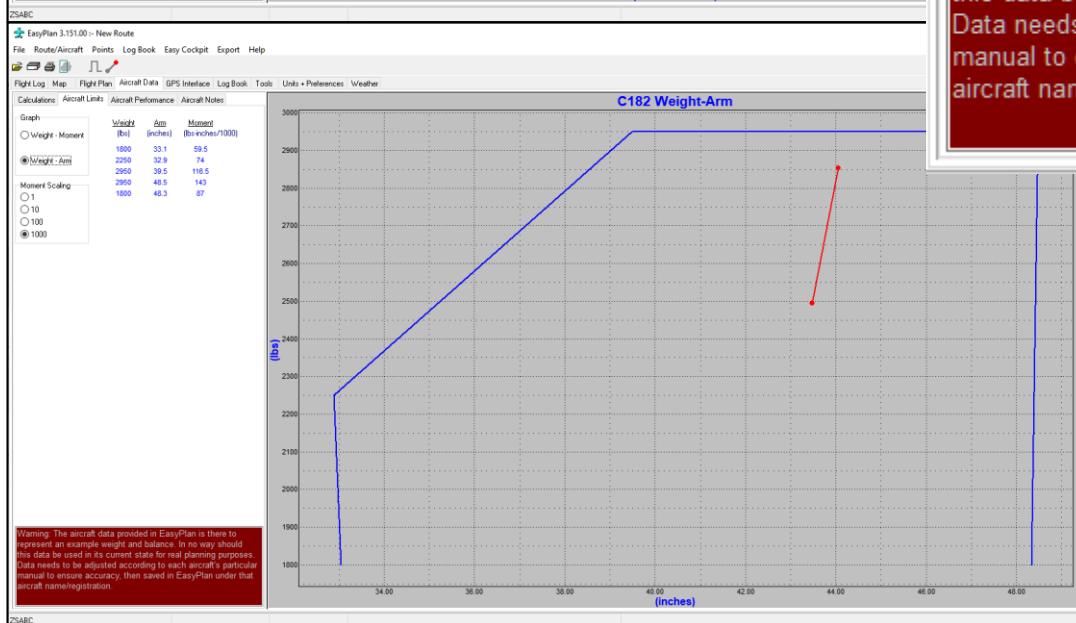
You can customize the envelope to be Weight versus Arm or Weight versus Moment

Aircraft Weight & Balance – Aircraft Limits



You can customize the envelope to be

- Weight versus Arm or
- Weight versus Moment



Warning: The aircraft data provided in EasyPlan is there to represent an example weight and balance. In no way should this data be used in its current state for real planning purposes. Data needs to be adjusted according to each aircraft's particular manual to ensure accuracy, then saved in EasyPlan under that aircraft name/registration.

Warning if you use any of the Sample Aircraft available under Route/Aircraft – Import Aircraft Data. You have to verify and update with your own Aircraft Operating Manual.

Aircraft Weight & Balance – Performance



EasyPlan 3.151.00 :-

File Route/Aircraft Points Log Book Easy Cockpit Export Help

Flight Log Map Flight Plan Aircraft Data GPS Interface Log Book Tools

Calculations Aircraft Limits Aircraft Performance Aircraft Notes

Details

Type:

Registration:

Performance

Total Fuel Capacity Main Tanks:	0	(litres)
Total Fuel Capacity Aux Tanks:	0	(litres)
Fuel For Ground Manoeuvring:	15.1	(litres)
Unusable Fuel:	7.6	(litres)
Contingency Fuel:	5	%
Reserve Time:	45	min
Fuel Density:	6	(lbs/gal)
Climb Rate:	600	(fpm)
Descent Rate:	800	(fpm)

	Climb	Level	Descent	
Fuel Consumption:	53.0	45.4	37.9	(litres/h)
Speed:	110	120	130	(knots)

Compass Deviation

0 deg	0
90 deg	0
180 deg	0
270 deg	0

Default Height

0-89 deg	FL075
90-179 deg	FL075
180-269 deg	FL085
270-359 deg	FL085

- Enter your **Aircraft TYPE** and **Registration Details**
- Enter the remaining information from your aircraft operator manual, including your contingency fuel and reserve time.

- Left Click on the light blue numbers to enter new data.
- Left Click on the 'Units' to change to your preference. The default values of Speed, Height and Fuel Consumption are used as initial values for the Flight Log.
- The compass deviation is subtracted from the magnetic heading to get the compass heading.
- The Fuel calculations are calculated from the Performance data, the flight details in the Flight Log and the Fuel quantity in the Weight & Balance.
- Or import existing aircraft data from the Route/Aircraft menu.
- Note: After updating the Weight & Balance and the performance details of your aircraft, click on File | SaveAs and enter a name that describes your aircraft.
- Tip: all numbers in BLUE can be changed.

When all done: **SAVE AS** with your aircraft registration.
It should always default back to this unless you open a different aircraft type from

Route / Aircraft - Import Aircraft Data

Aircraft Weight & Balance – Calculations

EasyPlan 3.151.00 :-

File Route/Aircraft Points Log Book Easy Cockpit Export Help

Flight Log Map Flight Plan Aircraft Data GPS Interface Log Book Tools

Calculations Aircraft Limits Aircraft Performance Aircraft Notes

Item	Quantity (litres)	Unit Weight (lbs)	Total Weight (lbs)	Arm (inches)	Moment (lbs-inches/1000)
Aircraft	1	1714	1714	35.1	60.1
Fuel	227 (litres)	1.6	360	48.1	17.3
Front	1	170	170	37	6.3
Front	1	170	170	37	6.3
Back	2	170	340	74	25.2
Baggage 1	1	50	50	97	4.9
Baggage 2	1	50	50	115	5.8
TOTAL			2854	44.1	125.7
Total - no fuel			2494	43.5	108.4

FUEL CALCULATIONS		
Unusable:	7.6 (litres)	
Taxi:	15.1 (litres)	
Flying:		
Trip:	00 hours 00 min	0 (litres)
Approach and Landing:	00 hours 00 min	0 (litres)
Contingency (5%):	00 hours 00 min	0 (litres)
Alternate:	00 hours 00 min	0 (litres)
Final Reserve:	00 hours 45 min	34.1 (litres)
Extra:	03 hours 45 min	170 (litres)
TOTAL USABLE:	04 hours 30 min	220 (litres)

- **Units of measurement** can be changed under the headings, as per your manual
- Enter the **Aircraft Empty Weight**, found on the Weight & Balance Certificate
- **An item with a name starting with “FUEL” is interpreted as Fuel and displayed in a different colour. This Fuel Station (in RED) should not be altered.**
- Enter the amount of fuel you are loading.
- From your Certificate you should also be able to find the Arm value of the fuel tanks
- More than one Fuel item can be entered
- The total fuel is used for the Fuel Calculation
- **EXCEPT...**
- An Item with a name starting with **“Fuel-Aux-s”** (Separate Aux Fuel) is interpreted as fuel carried in or on the aircraft but not available unless there is a fuel stop (see Flight Log)
- This quantity is not used in the Fuel Calculations except where there is an en-route fuel stop.
- Enter the Pilot with Weight and Arm
- Enter the Luggage weight and its Arm value
- You can add further stations by right-clicking and Insert.
- You may also **change the name** of the Stations **except FUEL stations.**

This will now give you your total weight as loaded for that flight. You should print out this page.



To add boundary points first LEFT click on the track line, then RIGHT click for the options to add.

EasyPlan 3.151.00 :-

File Route/Aircraft Points Log Book Easy Cockpit Export Help

Flight Log Map Flight Plan Aircraft Data GPS Interface Log Book Tools Units + Preferences Weather

- Use the top buttons on the toolbar to switch on or off display of airfields, restricted areas, reporting points, navigation aids etc.
- Ground features can also be turned off for easier viewing. Click 
- Go to 'Units & Preferences' to switch on or off the ground features, as required.

- Use the Auto Scale button to view the route.
- Use the + and - buttons to zoom in and out.
- Use the Display South Africa button to display the whole map.

Best way : Press and hold the Ctrl button on the keyboard. Press and hold the Left Mouse Button and move over the area that you want to view, then release, or use Mouse Wheel

Planning your Flight in Map View

Panning

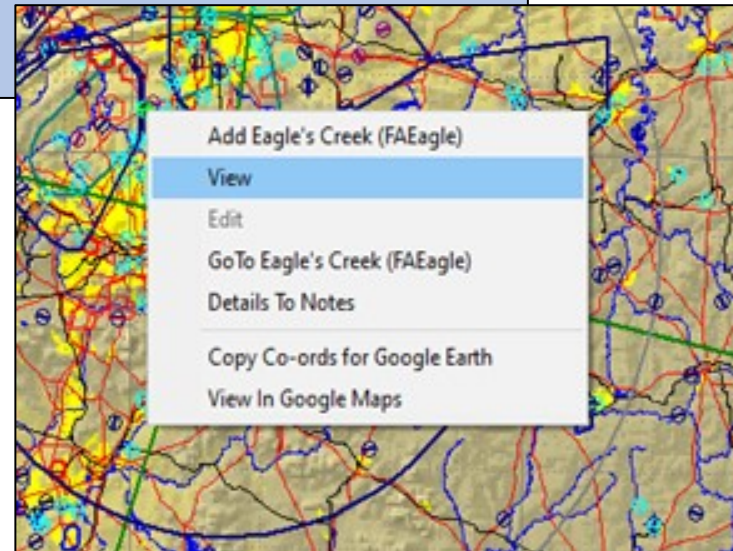
- Press and hold the Left Mouse Button down and then move. The map will follow the mouse.

Measuring Distance

- Press and hold the Shift button and then press and hold the Left Mouse Button.
- Move the mouse and the distance and magnetic bearing will be displayed at the bottom of the screen.

Displaying Information

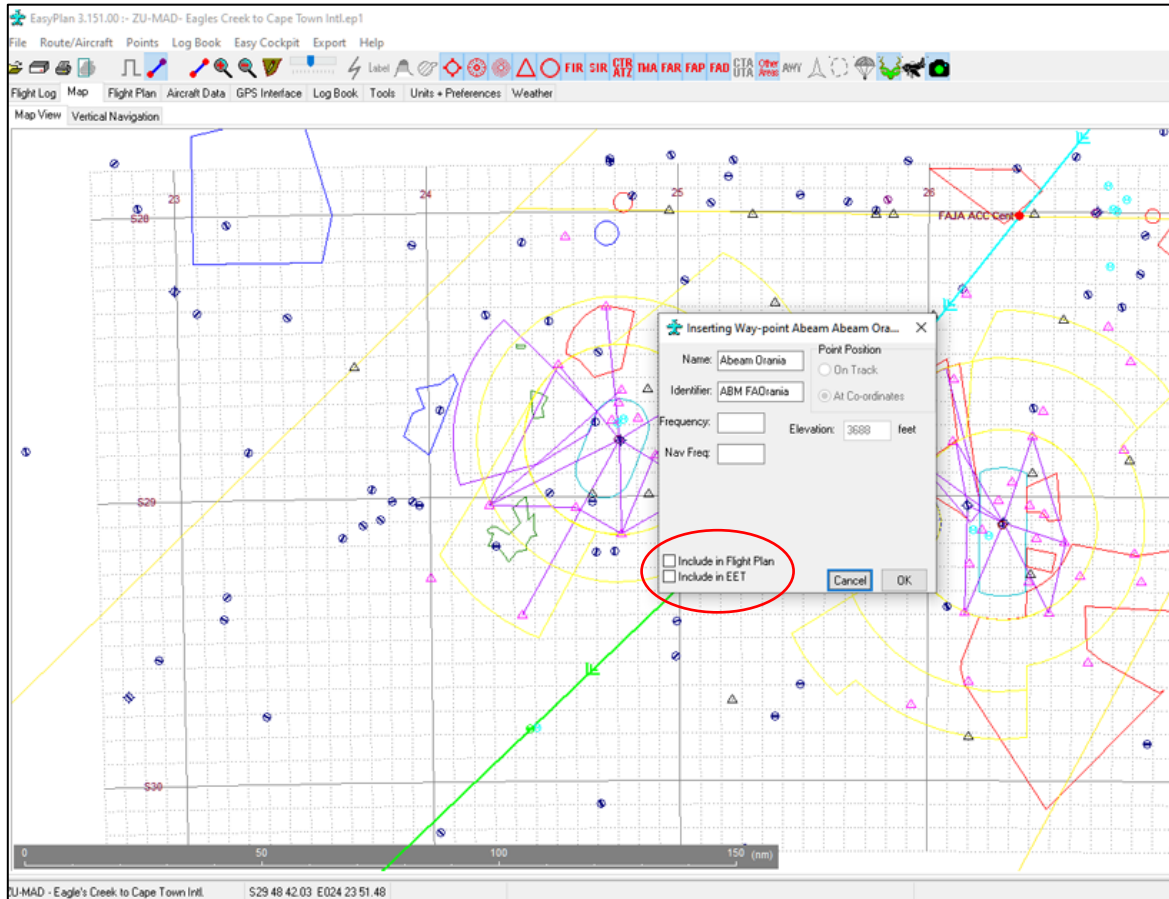
- An aeronautical item on the map will be highlighted in lime green as the mouse moves over it.
- Right Click and go to View to display additional info on the item.



Planning your Flight in Map View



It might be easier to work on and plan your Route if Ground Features are turned off. Turn ON again if you view your Vertical Navigation.



Adding a Point - to the end of a route

- Make sure no leg is selected. De-select a selected leg by Left Clicking on the highlighted leg.
- Switch on the points of interest. (Airfield, NDB etc).
- Right Click on the highlighted point and go to the Add menu item.

Inserting a Point - in an existing leg

- Left Click on the leg to select it. The Leg changes colour to GREEN
- Right click on the highlighted point and go the Insert menu item.

Inserting a Flight Boundary - in an existing leg

- Left Click on the leg to select it.
- Make sure the boundaries are selected. (FIR, TMA etc.)
- Right click on the highlighted boundary and go the Insert menu item, or
- Select from the menu "Flight Boundary"

Planning your Flight in Map View



Inserting a Waypoint - in an existing leg

- Left Click on the leg to select it.
- Make sure no point is highlighted, Right click on the map and go the Insert Waypoint menu item (a Waypoint can be inserted on the leg or at the mouse position).

Radial from ... (any VOR)

- Left Click on the leg to select it.
- Move the mouse over the VOR Right Click. Select the menu item "Radial from xxx". The "insert waypoint" menu is displayed.

Inserting a Waypoint abeam of an existing point - in an existing leg

- Left Click on the leg to select it.
- Move the mouse over the point abeam the selected leg and Right Click. Select the menu item Insert Waypoint Abeam xxxx. If the menu is not available then the point is not abeam the leg.

Deleting a Point or Waypoint

- Left Click on leg to select. (Note - the highlighted point is the selected one).
- Ensure that no additional point is highlighted (maybe switch off some of the displayed points)
- Right Click on the Map and go to the Delete menu item.

Viewing Details

- Select the leg by Clicking with the Left Mouse button. Ensure that no additional point is highlighted. (maybe switch off some of the displayed points)
- Right Click on the Map and go to the Display Leg Details menu item.

Map Notes

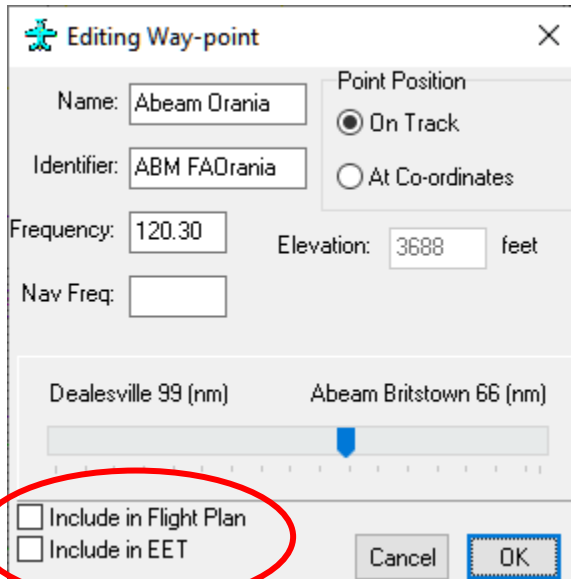
- Right click on a boundary and select Details to Notes to send the details to the route notes.

Planning your Flight in Map View

In MapView you can create a waypoint anywhere on the map. You can edit your Waypoints, e.g. if you want to have your point on Track, or At Co-ordinates.

You can also check your Legs and edit Altitude, Windspeed, Direction, Air Speed, Fuel Consumption, or if that **Waypoint** needs to be in **Flight Plan** or in **EET of Flight Plan**.

You can view the LEG Details by click right clicking and highlighting that Leg.



Editing Way-point

Name: Point Position
☒ On Track
☐ At Co-ordinates

Identifier:

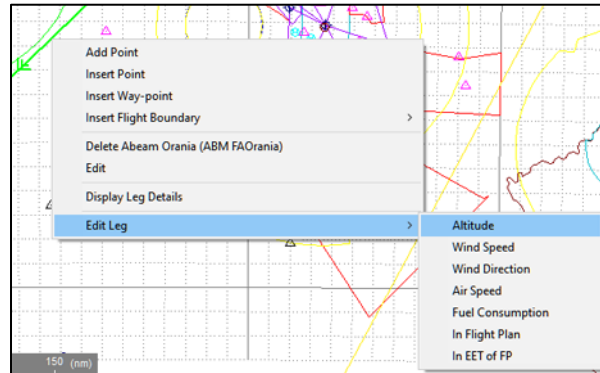
Frequency: Elevation: feet

Nav Freq:

Dealesville 99 (nm) Abeam Britstown 66 (nm)

☐ Include in Flight Plan
☐ Include in EET

Cancel OK

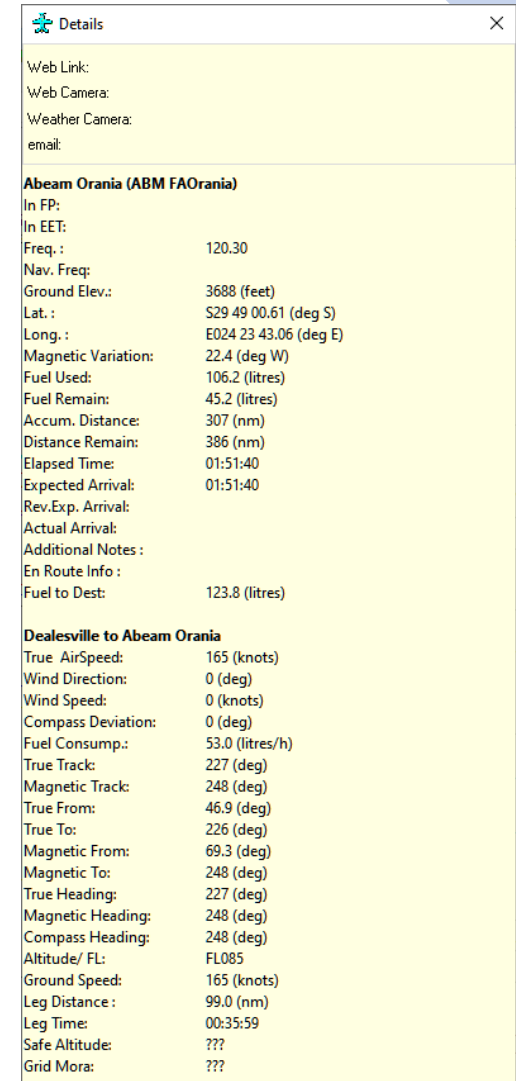


Edit Waypoint

- Change the Waypoint and press OK when complete.
- Check Include in Flight Plan if the point must be part of the Route information in the Flight Plan.
- Check 'Include in EET' if the point must be included as part of the EET information in the Flight Plan.
- When in MAP mode the Waypoint can be moved to the Co-ordinates of the Mouse by selecting At Co-ordinates and Clicking on "Mouse Co-ords".

Remember when inserting or editing Waypoints to select for them to be in the Flight plan or to be included in EET in the flight plan.

Estimated Elapsed Time



Details

Web Link:
 Web Camera:
 Weather Camera:
 email:

Abeam Orania (ABM FAOrania)

In FP:
 In EET:
 Freq.: 120.30
 Nav. Freq:
 Ground Elev.: 3688 (feet)
 Lat.: S29 49 00.61 (deg S)
 Long.: E024 23 43.06 (deg E)
 Magnetic Variation: 22.4 (deg W)
 Fuel Used: 106.2 (litres)
 Fuel Remain: 45.2 (litres)
 Accum. Distance: 307 (nm)
 Distance Remain: 386 (nm)
 Elapsed Time: 01:51:40
 Expected Arrival: 01:51:40
 Rev.Exp. Arrival:
 Actual Arrival:
 Additional Notes :
 En Route Info :
 Fuel to Dest: 123.8 (litres)

Dealesville to Abeam Orania

True AirSpeed: 165 (knots)
 Wind Direction: 0 (deg)
 Wind Speed: 0 (knots)
 Compass Deviation: 0 (deg)
 Fuel Consump.: 53.0 (litres/h)
 True Track: 227 (deg)
 Magnetic Track: 248 (deg)
 True From: 46.9 (deg)
 True To: 226 (deg)
 Magnetic From: 69.3 (deg)
 Magnetic To: 248 (deg)
 True Heading: 227 (deg)
 Magnetic Heading: 248 (deg)
 Compass Heading: 248 (deg)
 Altitude/ FL: FL085
 Ground Speed: 165 (knots)
 Leg Distance : 99.0 (nm)
 Leg Time: 00:35:59
 Safe Altitude: ???
 Grid Mora: ???

Planning your Flight in Map View



Zoom In

- Press and hold the Ctrl button on the keyboard. Press and hold the Left Mouse Button and move over the area that you want to view, then release.

Zoom Out

- Press the Right mouse button.

Climb and Descent

- Press the "Climb and Descent" button or go to the Top menu item "Route/Aircraft" to insert or remove climb and descent waypoints.
- Climb and Descent rates are as specified in the **Aircraft Performance**.
- Wind is taken into account.

TOC = Top of Climb.
DES = Start of the descent

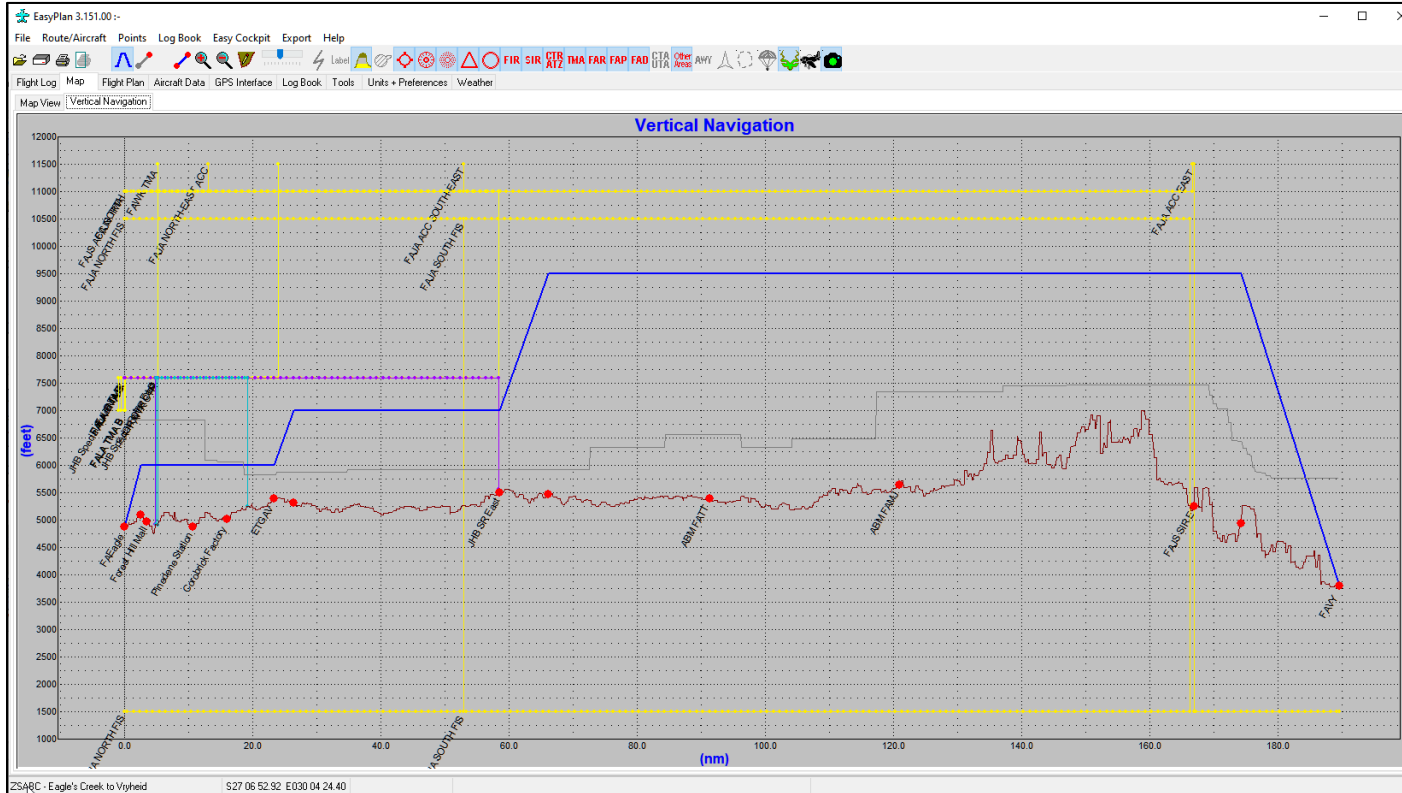
Note: It is better to **remove Climb and Descent points when editing** a route.

An alternate destination airfield is not displayed in the vertical navigation.

VFR:

A leg with a height designated as VFR will be shown as a line joining the point 1500ft above the first point and 1500ft above the second point of the VFR leg.

Vertical Navigation



- The **Blue Line** represents the aircraft.
- If **Climb and Descent points** have been inserted, then the blue line will be sloped, otherwise it will be square.
- The **Brown Line** is the ground elevation directly along the flight path.
- The **Gray Line** is the highest ground elevation within five nautical miles of the flight path This can be changed in the Map Preferences.



The Vertical Navigation view can be printed with the Map.

Printing in Portrait mode places the Vertical Navigation underneath the Map on the same page.

Printing in Landscape mode places the Vertical Navigation and the Map on two separate pages.

Flight Log



EasyPlan 3.151.00 :-

File Route/Aircraft Points Log Book Easy Cockpit Export Help

Flight Log Map Flight Plan Aircraft Data GPS Interface Log Book Tools Units + Preferences Weather

Log Notes

Name	Identifier	Freq.	Nav. Freq	True AirSpeed (knots)	Fuel Remain (litres)	Magnetic Track (deg)	Altitude/ FL	Ground Speed (knots)	Leg Distance (nm)	Accum. Distance (nm)	Leg Time	Elapsed Time	Expected Arrival	Actual Arrival	En Route Info	Safe Altitude	Grid Mora
Eagle's Creek	FAEagle	125.80			204.4					0		00:00	00:00				
→ TOC01	TOC01	125.80		110	203.2	92	CLIMB	110	2	2	00:01	00:01	00:01			8400	
Forest Hill Mall		125.8		120	202.8	92	6000FT	120	1	3	00:01	00:02	00:02			8400	
Pinedene Station		124.10		120	200.1	119	6000FT	120	7	11	00:04	00:05	00:05			8400	
Corobrick Factory		124.10		120	198.1	111	6000FT	120	5	16	00:03	00:08	00:08			8400	
ETGAV		125.40		120	195.3	127	6000FT	120	7	23	00:04	00:12	00:12			7600	
→ TOC02	TOC02	125.40		110	193.8	150	CLIMB	110	3	26	00:02	00:13	00:13			7400	
JHB Special Rules East	JHB SR East	119.50		120	181.7	151	7000FT	120	32	58	00:16	00:30	00:30			7500	
→ TOC03	TOC03	119.50		110	178.0	151	CLIMB	110	8	66	00:04	00:34	00:34			7500	
Abem Tutuka Power Station	ABM FATT	119.50		120	168.5	151	FL095	120	25	91	00:13	00:46	00:46			8100	
Abem Majuba Power Station	ABM FAMJ	119.50		120	157.3	152	FL095	120	30	121	00:15	01:01	01:01			8900	
FAJS EAST SIR	FAJS SIR E	129.10		120	139.9	153	FL095	120	46	167	00:23	01:24	01:24			9000	
→ DES01	DES01	129.10		120	137.1	153	FL095	120	7	174	00:04	01:28	01:28			9000	
Vryheid	FAVY	124.80		130	132.6	153	DESC	130	15	190	00:07	01:35	01:35			8000	

ZSABC - Eagle's Creek to Vryheid

FlightLog

The Flight Log shows the route in table format.

You can also plan your flight in this format by simply adding the points of departure and destination.

Then check in MAP VIEW if any other points need to be added, like Airspace Intersections.

In the FLIGHT LOG you can adjust your **altitudes or Flight Levels**.

Frequency Column - the frequencies are automatically calculated according to which **Airspace** you are entering and at what **ALT/FL**

Editing

- Mouse click in the 1st column to add, insert, delete a point or way point.
- Mouse click on the light blue text to change the value.
- Mouse click on the Units to change them.
- Mouse click on the Heading in the top row to switch the column off, display ALL or return to DEFAULT

Long.	Magnetic	True	Wind	Wind
(deg)	Column Off			Speed
028 02	Display All Columns			(knots)
028 04	Default Column Display			10
028 05 52.00	18	120	339	10
028 10 10.10	18	120	339	10

Alternate Destination is marked in **RED**. Go to Route/Aircraft. Set Alternate Destination on/off

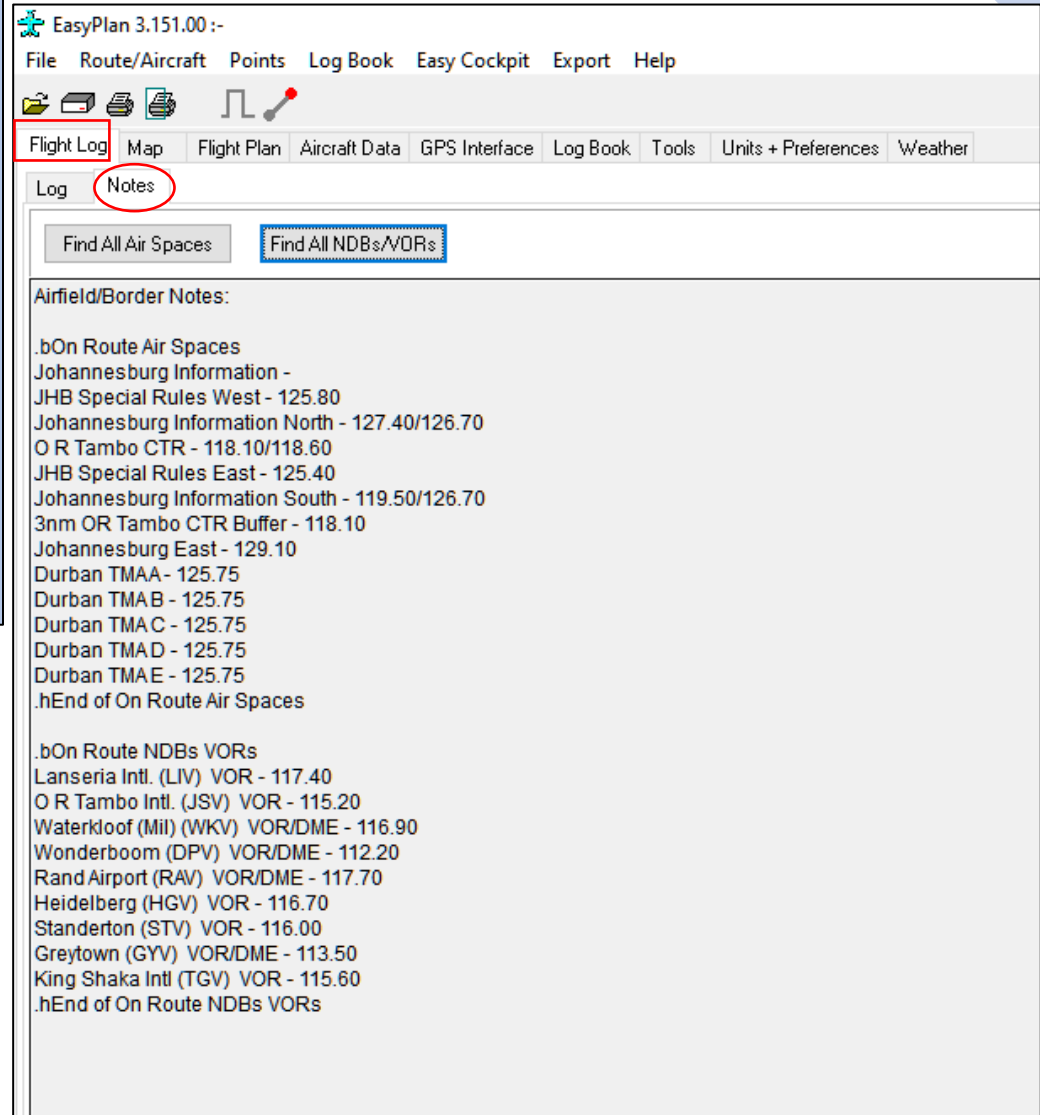
NOTES

These notes are saved, together with all the flight details, and can be printed with the Flight Log. Use for current Notams or special instructions.

You can also add notes directly by right clicking on a border while in the map view.

The logo for 'Easy Plan' features the word 'Easy' in a dark blue, cursive script font, and the word 'Plan' in a bold, orange, sans-serif font. A small, stylized blue bird icon is positioned above the 'y' in 'Easy'. The background of the logo is a light blue diagonal stripe.

(Not printed).




Flight Plan

Easy
Plan

From the Flight Log, an ATC Flight Plan is created.

There is an automatic flight plan check with warnings if the flight plan needs to be revised: e.g.

Warning



Distance to: FACT TMA greater than 200nm
Put FACT FIR in Flight Plan?

Yes

No

EasyPlan 3.151.00 :-

File Route/Aircraft Points Log Book Easy Cockpit Export Help

Flight Log Map Flight Plan Aircraft Data GPS Interface Log Book Tools Units + Preferences Weather

Aircraft info

7 Aircraft identification

ZU-MAD

8 Flight rules

V ?

Type of Flight

G ?

☐ Print Blank Form

9 Number

Type of aircraft

RV7 ?

Wake turbulence cat

L ?

10 Equipment

G/C ?

Route info

13 Departure aerodrome

ZZZZ

15 Cruising speed

N0165

Time

00:00

Level

F085

Route

DCT FAHR DCT 2758S02856E DCT FAFF/N0165F075 DCT

16 Destination aerodrome

FAOI

Total eet

02:36

18 Other information

Item 18 Select

RMK/SAR NML

Supplementary info

19 Endurance

06:16


Persons on board

004

Emergency Radios

☐ UHF
 ☐ VHF
 ☐ Elba

Warning




Point missing for heading change: MEYERTON
Put in Flight Plan?

Yes

No

Confirm



Remove "/" characters from remarks

Yes

No

REPUBLIC OF SOUTH AFRICA FLIGHT PLAN REPUBLIEK VAN SUID-AFRIKA

Priority

<< == FF >>

Addressee(s)

Filing time

Originator

Specific identification of addressee(s) and/or originator

3 Message type

<< == (FPL)

7 Aircraft identification

Z S X X X

8 Flight rules

V

Type of flight

G << ==

9 Number

Type of aircraft

B E 3 5

Wake turbulence cat

L

10 Equipment

SDG/C << ==

13 Departure aerodrome

F A L A

Time

1 4 0 0 << ==

15 Cruising speed

N 0 1 6 5

Level

A 0 7 0

Route

DCT 2613S02737E 2619S02731E/N0165F085 2826S02515E 2916S02420E 3050S02231E 3324S01920E 3338S01903E/N0165F045 3345S01854E/N0165A025 3352S01844E/N0165A015 DCT

16 Destination aerodrome

F A C T

Total eet

0 4 0 8

Altn. aerodrome

2nd altn. aerodrome

18 Other information

EET/2730S02616E0047 3050S02231E0229 RMK/SAR NML

Supplementary information (not to be transmitted in FPL messages)

19 Endurance

Hr. Min.

0 4 7

Persons on board

0 0 4

Emergency radio

☒ UHF
 ☒ VHF
 ☒ Elba

Survival equipment

☒ S
 ☒ polar
 ☒ Desert
 ☒ Maritime
 ☒ Jungle

Dinghies

☒ Number
 ☒ Capacity
 ☒ Cover
 ☒ Colour

Aircraft colour and markings

A / WHITE WITH BLUE STRIPES

Remarks

N / FAKS

Pilot-in-command

C / S Pilot

Filed by

Space reserved for additional requirements

Flight Plan

Updating and Checking

- The Flight Plan updates automatically if the 'Automatically Up-date FP' in the Units & Preferences check box is ticked. Otherwise press the Button "Update & Check" Flight Plan
- Data for the Flight Plan is extracted from the Aircraft details, the Flight Log and the Weight & Balance.
- Note that the Fuel quantity comes from the Weight & Balance.



The following fields in the Flight Plan will be updated automatically :



Field 18

Line 1: Used for EET. Automatically updated.

Line 2: Used for departure, destination and alternate info. Automatically updated.

Line 3: Used for OPR/ DAT/ COM/ and NAV/ fields.

“NAV/GPS” inserted automatically if a “Z” selected in equipment and no other NAV/ field is already entered.

Line 4: Used for SAR and any additional remarks.

Note that the SAR must be last in the list. If touch and go is required add “RMK/REQ T AND G FAGC FALA FAWB RMK/SAR NML”

More info on SAR: The correct way to file the SAR is as follows:

- RMK/SAR NML, not SAR/NML as “SAR” is not a recognized field identifier.
- SAR must be filed according to all the CAA accepted formats namely:
- RMK/SAR NML
- RMK/SAR NML ENROUTE
- RMK/SAR FAJSETA 1HR
- RMK/SAR NIL
- RMK/SAR FAJS1600

1. Departure Aerodrome
2. Departure Time
3. Cruising Speed
4. Level
5. Route
6. Destination Aerodrome
7. Total EET
8. Other Information: EET for FIR crossings
9. Endurance

in EET

The software automatically calculates the estimated enroute time to FIR boundaries. *EET/ Significant points or FIR boundary designators and accumulated estimated elapsed times from take-off to such points or FIR boundaries, when so prescribed on the basis of regional air navigation agreements, or by the appropriate ATS authority*

Flight Plan and Filing with File2Fly



EasyPlan 3.151.00 - ZU-MAD - Eagles Creek to Durban Virginia.ep1

File Route/Aircraft Points Log Book Easy Cockpit Export Help

Flight Log Map Flight Plan Aircraft Data GPS Interface Log Book Tools Units + Preferences Weather

ICAO FLIGHTPLAN

Aircraft info
 7 Aircraft identification ZU-MAD
 8 Flight rules V ?
 9 Number
 10 Equipment G/C ?

Route info
 13 Departure aerodrome Time
 15 Cruising speed Level
 16 Destination aerodrome Total est Altn. aerodrome 2nd altn. aerodrome
 18 Other information Item 18 Select
 DEP/Eagles Creek 2554S02802E RMK/SAR NML

Supplementary info
 19 Endurance Persons on board Emergency Radios
 Life Jackets
 Survival Equipment
 Dinghies
 Aircraft colour and markings BLUE AND WHITE WITH SILVER STRIPES
 Remarks FAKS
 Pilot-in-command A PILOT

ICAO FLIGHTPLAN
 (PPL-ZUMAD-VG
 RV7/L-G/C
 ZZZZ0800
 -N0165F075 DCT 2600S02803E 2606S02803E 2612S02803E
 2614S02803E 2621S02806E 2626S02806E 2648S02824E/N0165F095 2753S02925E
 2825S02955E/N0165F070 DCT FAGY/N0165A055 DCT 2946S03043E/N0165A035
 2950S03048E/N0165A025 2950S03057E/N0165A015 2949S03102E/N0165A010 DCT
 -FAVG0150 FAGV
 -DEP/Eagles Creek 2554S02802E RMK/SAR NML
 -E/0505 P/002
 A/BLUE AND WHITE WITH SILVER STRIPES
 N/FAKS
 C/A PILOT)

File2fly is a pilot self-briefing service provided by ATNS, where you can file flight plans ... Register and log in to have access the latest NOTAM and aeronautical information.

- Open File2Fly
- Then copy and paste the ICAO FlightPlan text from EasyPlan

ATNS

file2fly

Weather

CAA

Register

Login Name

Password

Login

Helpdesk

In case you need assistance, a helpdesk is available 24 hours a day:

E-Mail file2fly@atns.co.za Telephone (011) 928 6423 Fax (011) 928 6576

Address file2fly Helpdesk, ATNS Operations Complex, Private Bag X1, Bonaero Park 1622, Johannesburg South Africa

Flight Plan and Filing with File2Fly



Flight Plans & Briefings My Settings Aeronautical Data MET Help

My flight plans & briefings
New Route Briefing
New Zone Briefing
New Aerodrome Briefing
Create Flight Plan
Flight Plan Import
Flight Plan Templates

Profile
2.2023
briefings
ut
e
elp
ge here!
sh
on of your
related
take several
ns

Search

Graphical Search

Legend

- Accepted Flight Plan
- Pending Flight Plan
- Rejected Flight Plan
- Cancelled Flight Plan

- Open File2Fly
- Go to : **FlightPlan Import**
- Then copy and paste the ICAO FlightPlan text from EasyPlan
- The information will be verified, and you should get approval within a short period.

Flight Plans & Briefings My Settings Aeronautical Data MET Help

Import Flight Plan (Step 1 of 2)

Paste your flight plan in **ICAO format** into the box below. Then click on the "import flight plan" button. Your flight plan will be checked and taken over into the flight plan form.

```
(FPL-ZUMAD-VG  
-RV7/L-G/C  
-FALA0137  
-N0165F075 DCT 1933S02500E 1743S02413E DCT  
-FYKM0316 FYKM  
-EET/2353S02657E0049 1759S02420E0307 RMK/SAR  
NML SAR NML  
-E/0457 P/004  
A/WHITE WITH BLUE AND YELLOW STRIPE  
N/  
C/A N PILOT)
```

Import Flight Plan

My Profile
ANDREA
ANTEL
User expiry 23.02.2023
My flight plans & briefings
User Settings
User Log
Logout
Display Message
Help
Terms and conditions

Points



Adding New Point Or Viewing Point or New Point

1 Military Hospital (Mil.) (Hel1Mil)

12 Apostles Hotel (Hel12)

17 Celtis

5nm out FALO

Aandster (FYAD)

ABAPU

Abeam Birds Island

Aberdeen (Cape) (FAAE)

Aberdeen Two (Mil.) (FVAB)

ABLAN (East Abeam Langstrand)

ABM Ballito

ABM Kranskloof Nature Reserve

ABM Lenasia

ABM Pinetown S of N3

ABM/SO

Abu (FBAbu)

ACF Heli (HelACF)

Adamsfontein (FAAdam)

Match start

Name: Eddie's Farm strip

Country: FA South Africa

Identifier:

Latitude: S25 06 45.00 deg

Longitude: E028 02 54.00 deg

Frequency: (NDB, VOR, COM):

Elevation: feet

Info File: Open New

Picture File: Open New

Type Of Point

☐ Airfield

☐ Licenced Airfield

☐ VOR

☐ VOR + DME

☐ NDB

☐ Reporting

☒ Other

☐ VFR Reporting

☐ Microlight

☐ Heliport

Display

☒ ALL

☐ Airfield

☐ VOR

☐ NDB

☐ Reporting

☐ VFR

☐ User

☐ Microlight

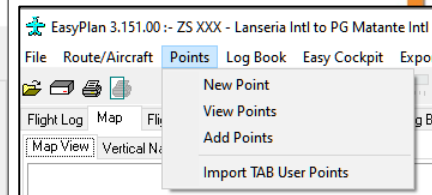
☐ Heliport

Sort By

☒ Name

☐ Ident.

New Edit Delete Goto on map Save Cancel Close



Point Manager

EasyPlan Points: An extensive database exists of airfields and navigational aids in Southern Africa. This database is fixed and cannot be edited. Updates can be downloaded from the website www.aviationdirect.co.za - Latest Updates - EasyPlan

Select the point required by entering the first few letters in the top edit box, and then select the point from the displayed list.

The following data is kept for each point:

- Name: e.g. Grand Central,
- Identification: ICAO code of airfield or VOR or Reporting Point: e.g. FAGC, or HGV or NEXIS
- Only User Points can be deleted.

User Points

Can be added, edited or deleted.

However, a User Point cannot have the same name as an existing point in the main EasyPlan database.)

- Type of point: Points are divided into 8 different categories. In Map View each type of point can be turned on or off.
- A category **Other** can be used for your special destinations or your own User Points. But don't forget to provide AviationDirect with details, should you want your airfield added to the main database.

Depending on the Settings of your format for Latitude/Longitude, enter the details and make sure all the spaces are fill, with zeroes at the end.

- Latitude: Enter five or six digits for the latitude, starting with S
- Longitude: Enter five or six digits for the longitude, starting with E
- Frequency: Enter a frequency if required. This is saved as a text string.
- Info File: Enter the name of a text file that contains additional information on the airfield. The Open button is enabled if a valid file exists. If no file exists, a file can be created or linked by entering the edit mode.
- Picture File: Enter the name of a .JPEG file that contains a picture of the airfield. The open button is enabled if a valid file exists
- Elevation: Enter the elevation of the airfield.

GPS Interface

All Garmin GPS should be supported, although not all have been tested.

Connecting a GPS

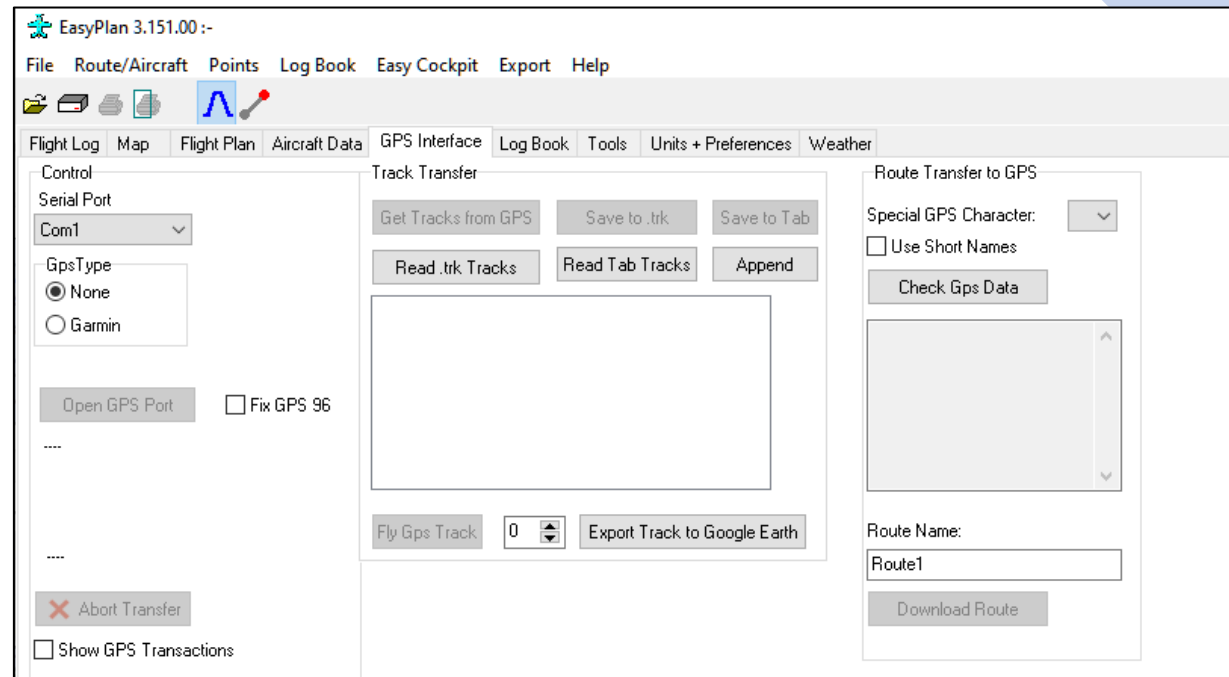
- Plug GPS into computer serial port
- Switch on GPS.
- Select the port number
- Click on Open GPS Port.
- “GPS Detected” should be displayed if communication with the GPS has been established. If not, check connections and port number.

USB

- EasyPlan communicates with the Garmin GPSs using USB. It works as the serial connection described above, except “USB” must be selected instead of “ComX”.
- The Garmin drivers must be previously installed.

NOTE:

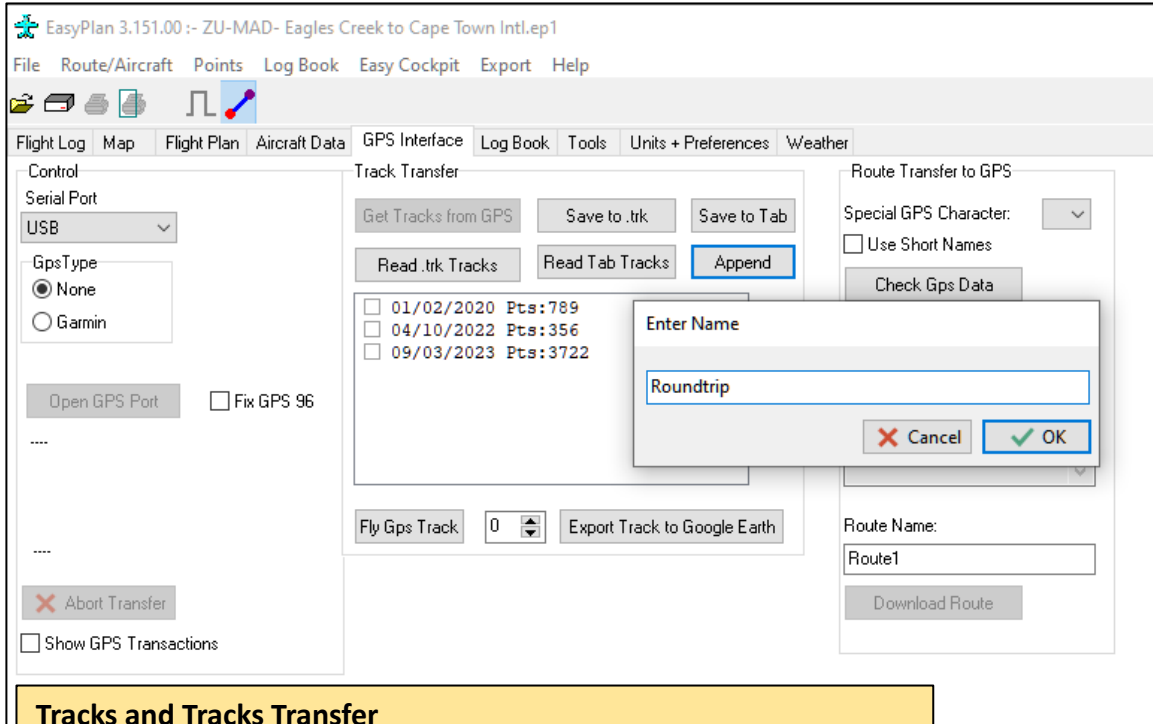
The easiest way is to **Export** your Flight Plan to a **.gpx Format** which is a **universal** format accepted by most GPS. You can copy that file from the folder to the GPS or to a SD card for your glass cockpit GPS.



Some common problems

- Wrong communications port selected. Most computers use Com1 or Com2
- The Communications port is being used by another application.
- Often cellphone communications software holds the port even though the cell phone is not connected. When EasyPlan reports “Error opening com port” then it is either not available on the computer, or in use by another application.
- The Garmin protocol is not selected on the GPS. EasyPlan reports “Port Open” and “Msg Sent 0” but gets no response. This indicates the GPS is not connected to the port, or is set on the wrong protocol. See the GPS Operating Instructions.

GPS Interface



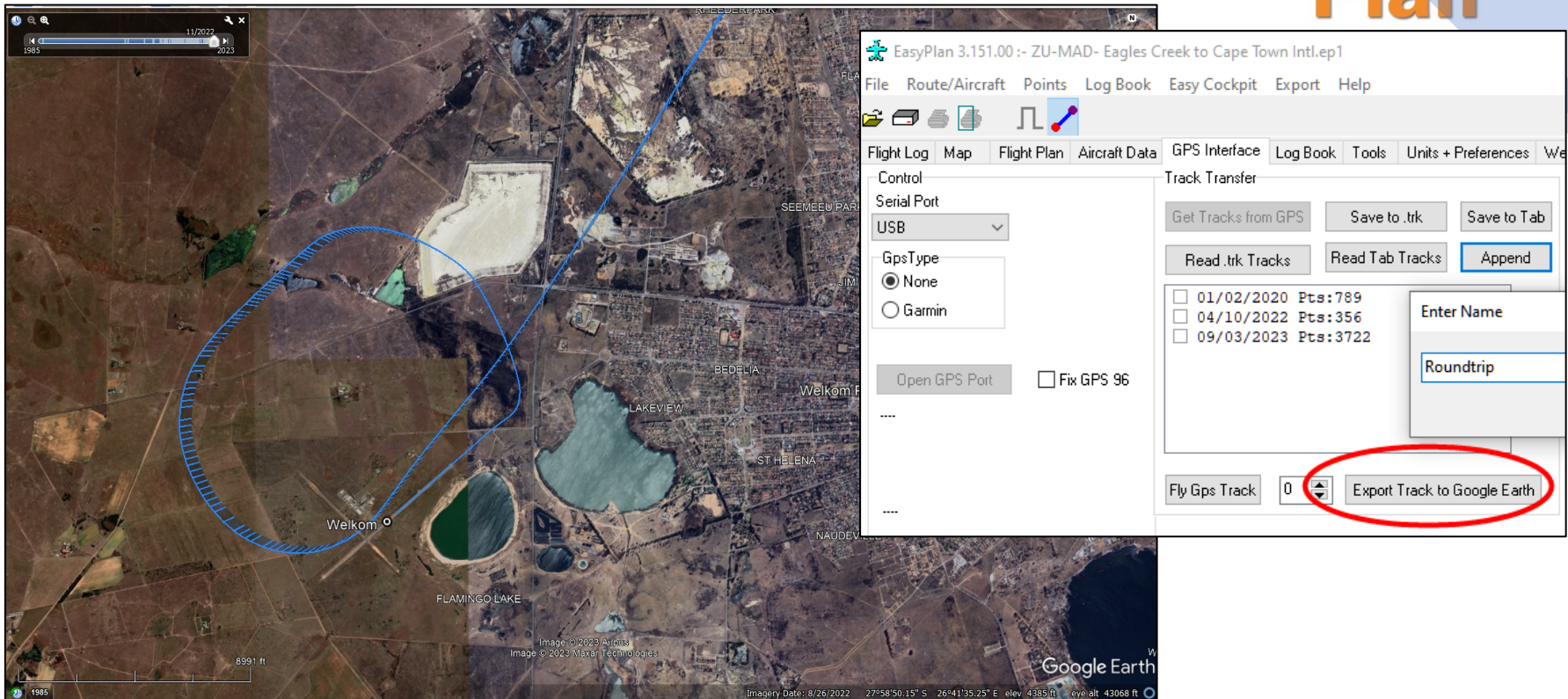
Tracks and Tracks Transfer

- Click on Get Tracks to read all the stored tracks from the GPS
 - Tracks can be saved to disk.
- If you use EasyCockpit you can save your Tracks to your computer (folder in MyDocuments – EasyPlan3)
- **READ** Tracks to Select the tracks to view on the map.
 - **APPEND** if you have more tracks or different legs
 - You can Change the Name of the Tracks for easier reference

Route Transfer

- Select a special GPS Character to be appended to a waypoint name when the waypoint is not in the Point Database.
- The Special GPS Character is appended onto any waypoint to differentiate between waypoints of the same name in different routes.
- Waypoints modified are all that contain the letters: FIR, CTR, ATZ, TMA, FAR, FAD, FAP, CTA, UTA, WPT, XPT, ABM, TOC and DES.
- If you are downloading more than one route to the GPS, ensure you choose a different letter for each route, or ensure all names in the routes are unique.
- Click on Check GPS Data. This converts the waypoint names into a format suitable for the GPS and checks for duplicate names that do not refer to the same point. Note that waypoint names are modified to be meaningful using a length of six characters - the maximum available in most GPS.
- Change the route name if necessary. A route with the same name already in the GPS will be overwritten.
- Waypoint names can also be changed, but do so with care.
- Click on Download Route to send the current route to the GPS.

GPS Interface - Export Tracks to Google Earth



TRANSFER TO GARMIN AERA 500

- Connect the Garmin Aera to your PC. It then appears as a Memory Device on your PC (My Computer).
- Open the route on EasyPlan. Go to "EXPORT" and select "Create .gpx file" A folder called "GPX Files" is automatically created under My Documents - EasyPlan and the .gpx route is saved into that folder.
- Copy this file into the /GPX/AVIATION folder on the Garmin device.
- In the Garmin device: go to: "Active FPL - Menu - FLightplan List " - choose Route - ACTIVATE FP - then select "Home" - Map to display

TOP MENU ITEMS : FILE

New - To start a new route.

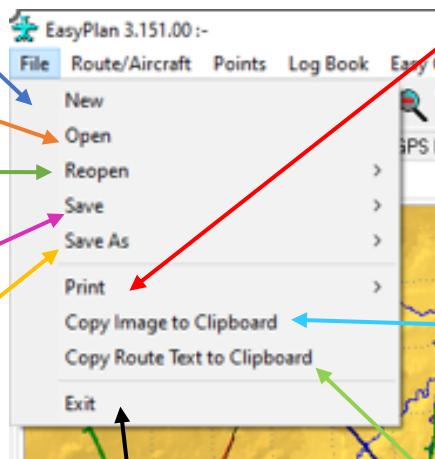
Open - Opens an existing route.

Reopen -
Re-opens a route that you previously saved.

Save - Saves the current route.

Save As - Saves the current route with a new name.

Exit - Closes EasyPlan.



Print - Gives you the option of printing the Flight Log, Flight Plan, Map or Weight & Balance, or if you like to print the Log Book, the Summary or the Renewal Form.
Using the Print icon prints whatever page you have open at the time!
Tip: Use the PRINT icon to print the current item being viewed.

Copy Image to Clipboard - Copies the current view to the clipboard so that the image can be pasted into another program

Copy Text to Spread Sheet - Copies the Flight Log to the clipboard so that the data can be pasted into a Clipboard or Word Processing program.

- Data is in Tab delimited form.

Route /Aircraft

Insert Climb and Descent Waypoints

Calculates the Top of Climb (TOC) and the Start of Descent (DES) points using the aircraft details and the flight levels set in the Flight Log. It is best to enter the complete route, and then calculate the climb and descent waypoints.

Set Alternate Destination On/Off

If "Alternate" is on, the alternate destination is always the last point of the route and is displayed in a different colour in the Flight Log and the Map. When "Alternate" is on, fuel calculations will be done to the destination and alternate destination. Switching the "Alternate" function off does not delete a point, but changes the final destination to what was previously the Alternate destination. The vertical display only includes up to the final destination.

Import Aircraft Data

Extracts only the aircraft data from a previously saved route. Use this if you have created a route and you want to fly the identical route in a different aircraft.

Import Route Data

Extracts only the route part of the data from a previously saved route.

Invert Route

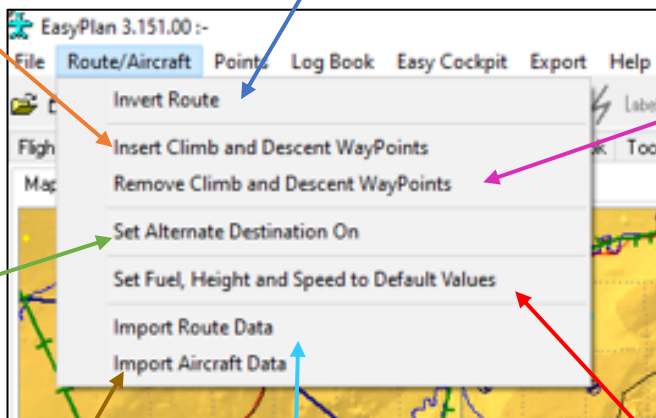
The current route is inverted. If the heights are the same as the aircraft defaults for that direction, the inverted route will have the correct heights for the new opposite direction. If the "Alternate" function is on, a new Alternate destination must be selected.

Remove Climb and Descent Waypoints

Removes the climb & descent waypoints automatically inserted by using the previous function.

Set Fuel and Speeds to Default Values

All the fuel consumption figures and the airspeeds in the Flight Log will be set to the defaults as in the Aircraft section.

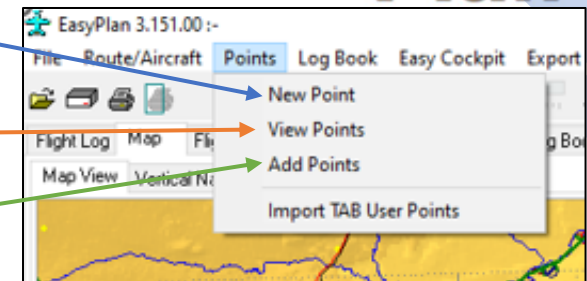


POINTS

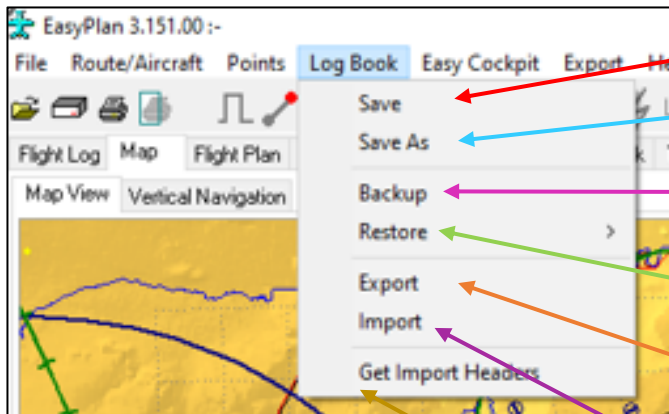
New - Opens the Point Manager page ready to insert a new point in the user database.

View - Opens the Point Manager page showing a list of all points in the database.

Add - Appends a point to the end of the route.



LOGBOOK



Save - Saves the current Logbook

Save As - Saves current Logbook but not Systems

BackUp - Periodically back up the Logbook onto a disc /cloud/ flash drive. Backup the current LogBook and Systems

Restore - Restore Logbook from disc/ cloud/ flash drive (.da1 or .dat2)

Export - Export Logbook onto a disc / cloud / flash drive in txt format

Import - Import Logbook from a disc / cloud / flash drive in txt format

Get Import Headers - Creates headers to be used in Excel spreadsheet

EXPORT

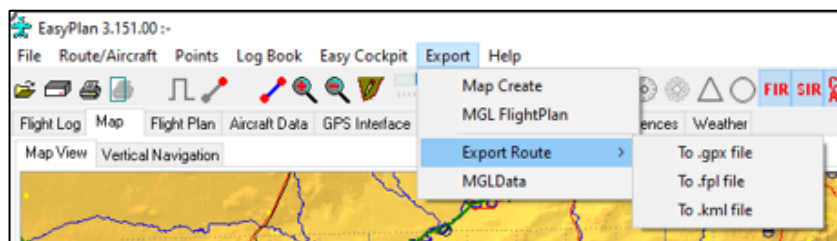
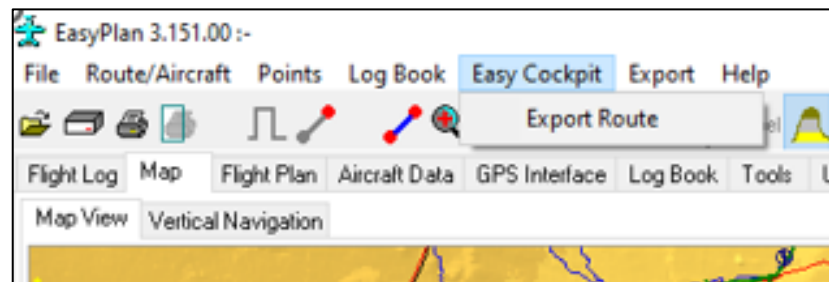
EASY COCKPIT



If you also have the EasyCockpit App, this exports the Routes/Flight Plans for your mobile devices (phone/tablet).

It creates the route in **.efp** format and saves it to Documents/EasyPlan3.

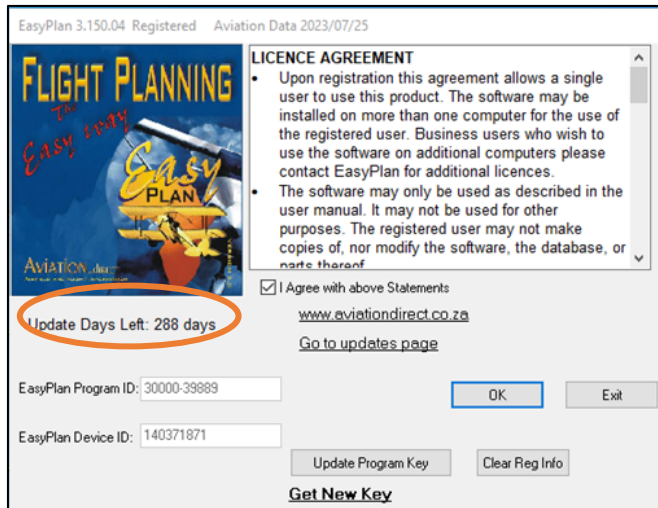
It also opens an email with the files attached, to be emailed to yourself to your mobile devices



Your Flight Plan / Route can be exported to various GPS:

- **Map Create** – for Lowrance Airmap GPS (see next page)
- **MGL Flight Plan** only is exported and can be saved onto an SD card to be read in the MGL – the file format is .ert
- With **MGL** you can also export **Data**.
- This feature requires an activation and subscription where the full aeronautical database can be exported to your MGL. The MGL serial number is required for this. The file format is .ewd
- Selecting Export Route let's you create a
 - **.gpx file** which is fairly universal for most GPS, including the MGL
 - **.fpl file** is recognised by the Garmin GPS
 - And the **.kml** file for export to Google Earth

How to Update your EasyPlan



EasyPlan 3.150.04 Registered Aviation Data 2023/07/25

FLIGHT PLANNING
To
EasyPlan

Aviation Direct

Update Days Left: 288 days

LICENCE AGREEMENT

- Upon registration this agreement allows a single user to use this product. The software may be installed on more than one computer for the use of the registered user. Business users who wish to use the software on additional computers please contact EasyPlan for additional licences.
- The software may only be used as described in the user manual. It may not be used for other purposes. The registered user may not make copies of, nor modify the software, the database, or parts thereof.

☒ I Agree with above Statements

www.aviationdirect.co.za

[Go to updates page](#)

EasyPlan Program ID: 30000-39889

EasyPlan Device ID: 140371871

[Get New Key](#)

AviationDirect provide regular updates to EasyPlan, generally airspace, airfields and navigation data updates as well as product improvements. To be able to download updates, your subscription has to be valid. The software shows that information when EasyPlan is opened:

“Update Days Left: 345”

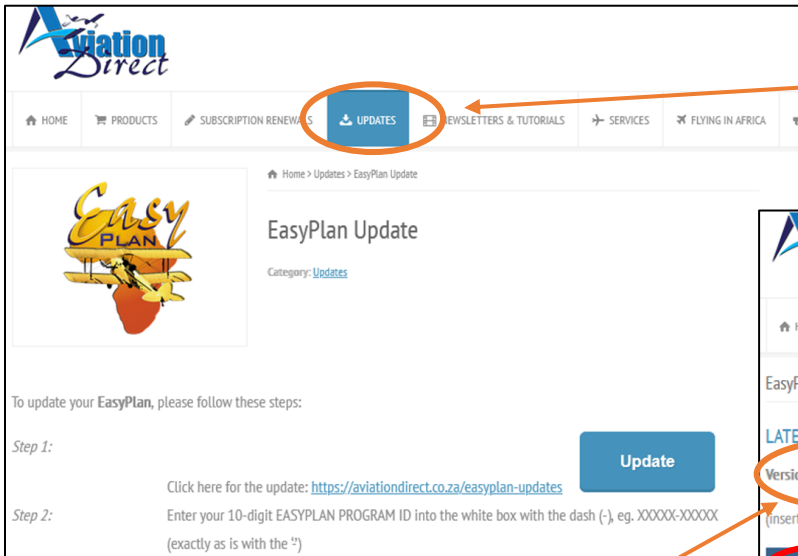
You can check which version of EasyPlan you have installed by going to: ‘Help’ > ‘About’ in EasyPlan.

The following window will appear displaying various information relating to your EasyPlan:

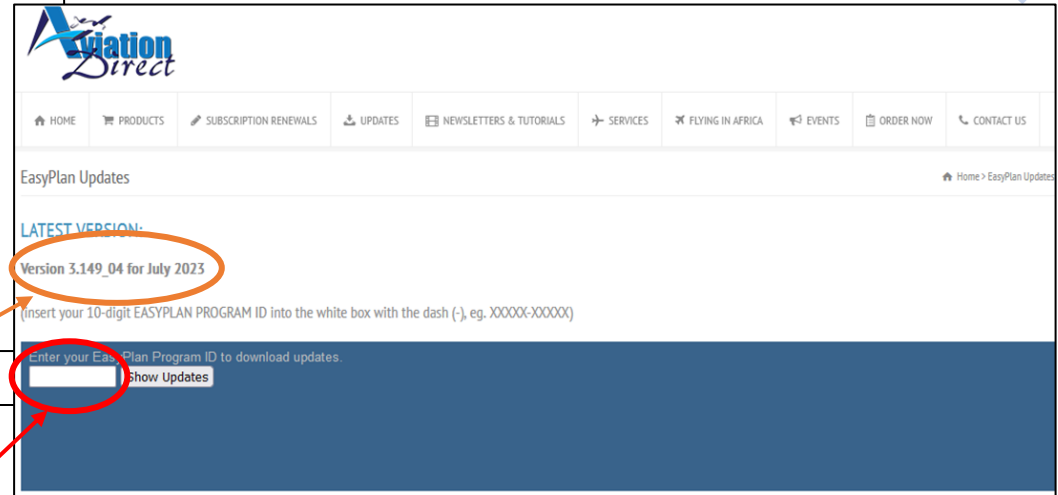
To update your EasyPlan, please follow the instructions below:

1. Check you have a valid EasyPlan subscription to updates (you can check this by going ‘Help’ > ‘About’ in your EasyPlan – see ‘Update Days Left’)
- If your subscription is valid, continue from point 2.
- If your subscription is not valid, see ‘Renewing Your Subscription to Updates’ further down this page
2. Download the latest EasyPlan Version 3.151 now - Go to www.aviationdirect.co.za > Updates > EasyPlan Update

How to download an Update



Select Update



See Latest Version (outlined in orange)

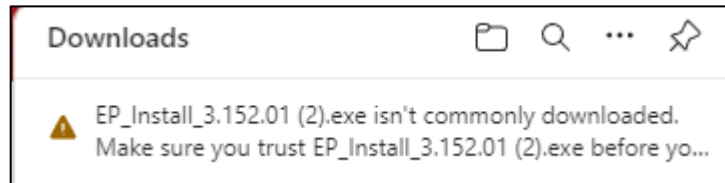
Enter your Easy Plan Program ID (10 DIGITS BEGINNING WITH 2 OR 3 WITH A DASH INBETWEEN THE FIRST 5 DIGITS AND THE LAST 5 DIGITS. Please call if you do not know your extended Program ID) in the space provided (red circle) and click 'Show Updates' to reveal the updates available for you to download.

You have 2 options from here: 'Run' or 'Save'

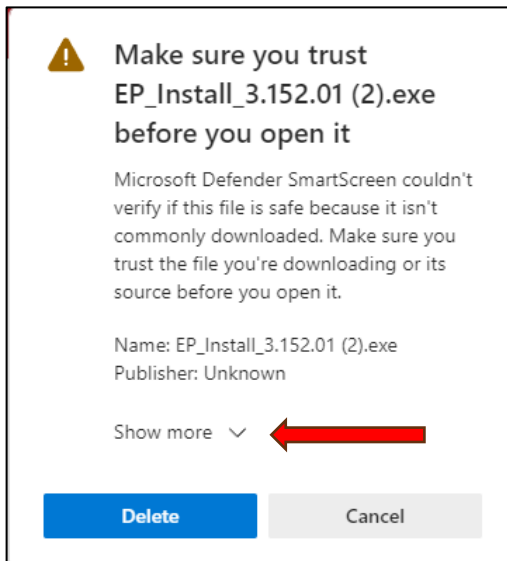
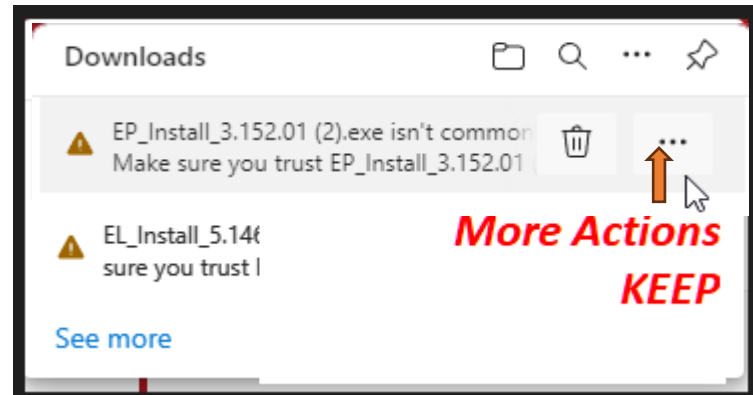
- 'Run' the update if your EasyPlan is loaded on the computer you are currently downloading/working on. You should be confident you will not need to install this update again at any stage
- 'Save' if you might have to install the update again (perhaps incase installation is cancelled before complete) or if your EasyPlan is loaded on a PC that does not have direct internet access. Make sure you remember where you saved it to.

Installing Updates – Troubleshooting

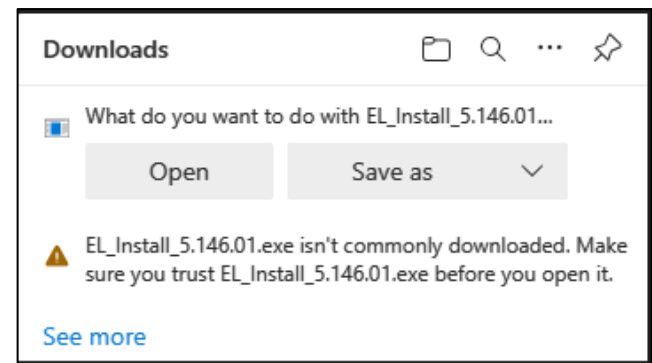
Depending on your Windows version there are other warnings that could come up



Put your cursor on the 3 dots
for **More Actions**, select **KEEP**

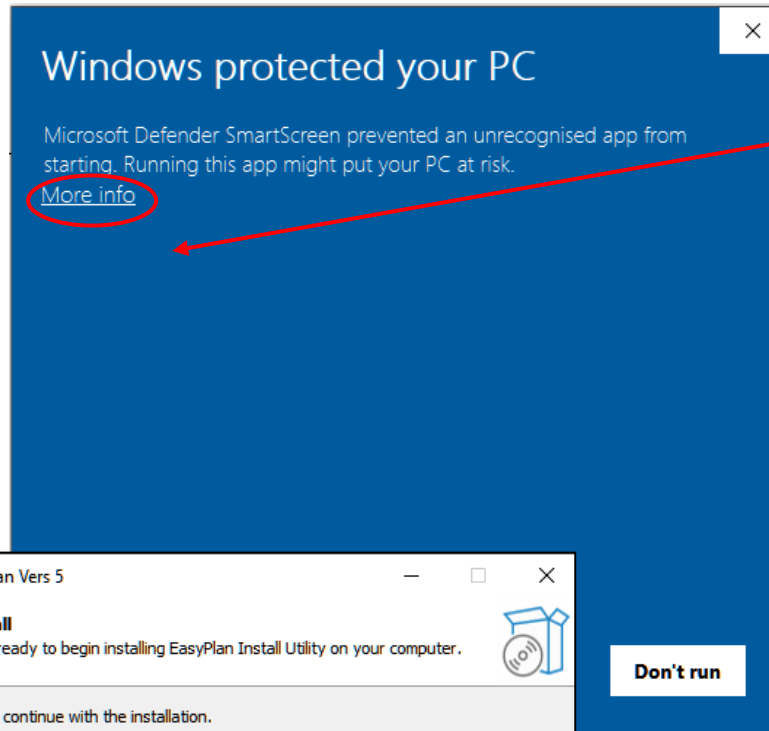


Select **SHOW MORE**, then
KEEP ANYWAY



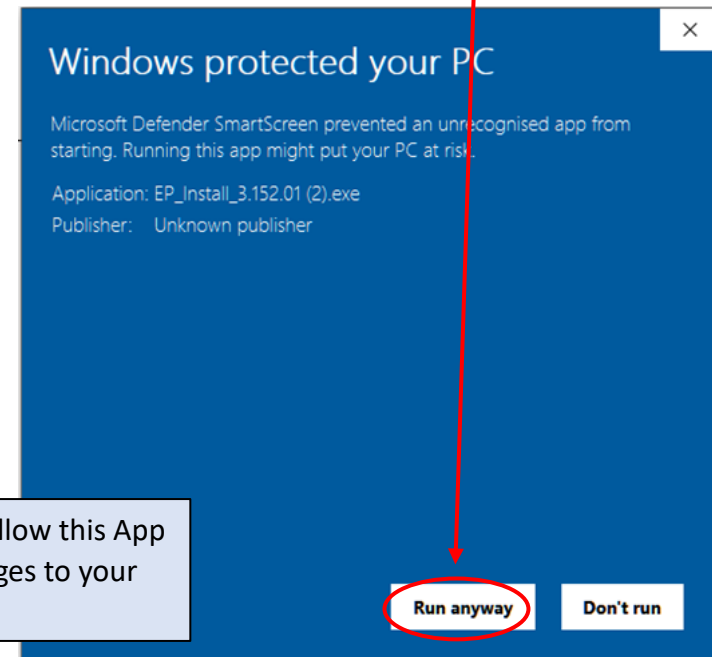
Downloading and installing an EasyPlan update

Fighting the antivirus and Windows



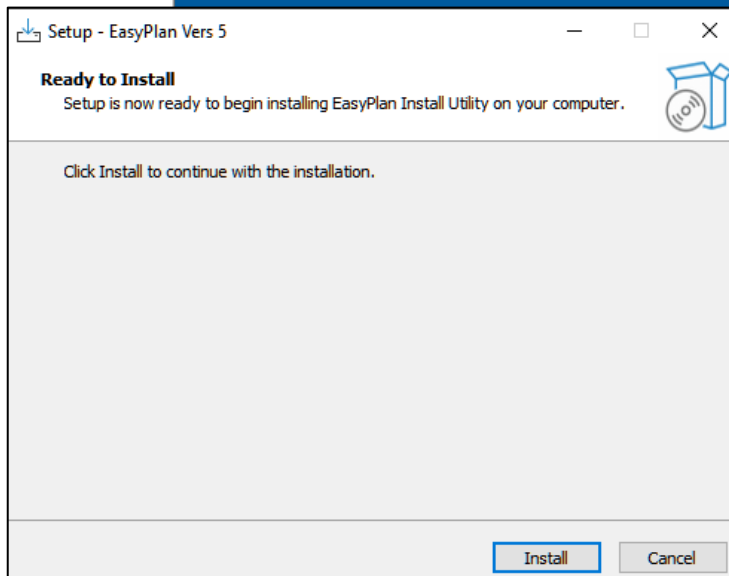
When Windows gives this message – Click on **More Info**

Then click on the **“Run Anyway”** option that comes up

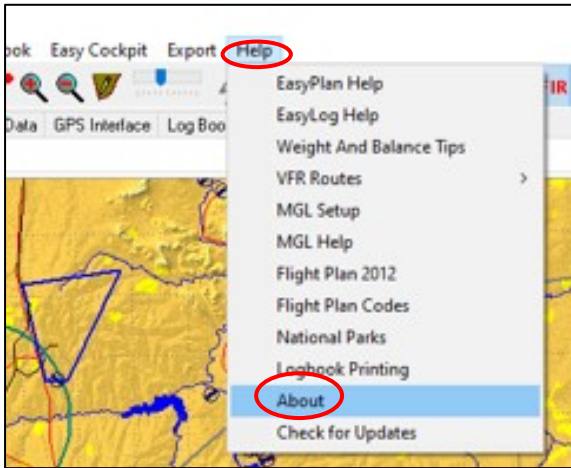


Click YES, to allow this App to make changes to your computer.

Then INSTALL ... finally



Renewing Your Subscription to Updates



You can check if your subscription to updates has expired by going 'Help' > 'About' in your EasyPlan program.

This opens a window which displays your current registration information.

Look at '**Update Days Left**' to check how many days you have remaining on your current subscription.

EasyPlan subscription to updates work on an annual fee that allows Users to download updates as and when available from the website throughout their year of subscription.

All users who purchase the software receive their first-year subscription to updates free.

This is calculated from the date of product registration.

If your subscription to updates has expired, please contact Aviation Direct

Updates

Content of Updates

EasyPlan Updates mainly contain updated airfield data, aeronautical information and communication frequencies. Updates can also contain software upgrades and improvements.

How Frequent are Updates?

Major updates containing airfield and aeronautical information are available on average every 2 months. 'Sub' updates are available when necessary, between the major updates.

How will I know when a new Update is Available?

Aviation.Direct notify all their registered users of updates that are available for download. This is done via the email address used to initially register the software.

Keep a check on our website for any 'Sub' updates as we do not necessarily notify by email for these.

www.aviationdirect.co.za > Updates > EasyPlan



TIPS & Troubleshooting



Entering your Aircraft Data

Tip: open an existing aircraft type which is similar to yours (Route/Aircraft > Import Aircraft Data), then change numbers according to your aircraft's operating manual.

"Save As" your aircraft registration and type.

Hi-Res data not displaying

- The files should be in c:\Program Files\EasyPlan\EasyPlan3\Dem
- They must be unzipped and have a ".hgt" extension
- Files must have the "Read Only" flag cleared.
- You must be using EasyPlan version 3.030 or later
- Enable "Hi Definition Elevation" in "Units & Preferences" "Map"
- Move the slider on the map page to about the middle
- The file name refers to the bottom left corner of the block

Note: The full EasyPlan program is NOT available for download because of the size of the topographical data.

If you install EasyPlan from a download, it will NOT display the topographical data.

Q&A

I have discrepancies between the flight log and flight plan. Some way points are missing from the flight plan and changes in flight levels/altitudes are also missing.

On the flight plan click on the top button “Update and check Flight Plan” to do just that.

Also go to “Units and Preferences” “Flight Log” and switch on “In Flight Plan” to see which points will be in the flight plan.

User points that are part of a straight course without an altitude change do not need to be in the flight plan

I have downloaded the latest update of Easy Plan from your web site and am getting an ERROR message that reads “Floating Point Operation” when the program is started. Would appreciate if you could advise on a fix for this problem.

If EasyPlan starts, go to “Units and Preferences” “General” and press “**Set Defaults**” and then restart and see if this helps.

Also check the default height under aircraft data is not 0. Be careful when you add any User Points, wrong co-ordinates also cause this error.

Printing Issues:

I can't print the map with the flight plan on my printer.

Not being able to print the map is due to the program not recognizing a certain printer. You can either print to file, and then print the .bmp or .jpg image, or you can print to Adobe .pdf

I don't have a printer connected to my laptop, is there any way I can email flightlogs or maps?

No, this is unfortunately not possible, but a good option is to print to a .pdf file and then email or print from there. Free programs are available from the following sites:

<http://www.pdfforge.org> or <http://sourceforge.net/projects/pdfcreator/>

I get this message after downloading the update: “Files Corrupt” please contact Aviation Direct

You will receive this message if your internet connection has been interrupted during the download. This means that the full update is not available - you might see it in the size of the file (an update at the moment is more than 7MB).

You need to download the update again. BUT before doing so, you will have to delete the temp file that has been created (corrupted update), as it will run the corrupt file.

To do this, open Internet explorer, click on TOOLS and on INTERNET OPTIONS. Once there, click on “DELETE TEMP INTERNET FILES” to delete the corrupted file. If you are running Mozilla Firefox, open page - Select ‘TOOLS’. then select ‘CLEAR RECENT HISTORY’. If you cannot access the page, here's another option: close internet explorer, Click on START, go to CONTROL PANEL and double click on INTERNET OPTIONS. Under the tab ‘GENERAL’, under the Temporary Internet files click on Delete files. In the Delete files box, click to select the ‘Delete all offline content’ check box, then click on ok.

GPS

Can't connect Garmin GPS to computer

The other method is by using EasyGPS. If you have a route loaded and click on "Export gpx" it should open EasyGPS with that route loaded. Does that happen? Then click on "Send" to send it to the GPS. Does that work?

"Fix Gps Data" converts the longer names into ones suitable for the GPS.

Are you sure the GPS is on port 3? EasyPlan is not getting any response from the GPS. Is the "Garmin Protocol" selected on the GPS?

The "Fix GPS 96" only changes the timing if you are connected to the GPS on a USB port.

All the items in the "Track Transfer" area are for reading tracks from a GPS or a file and "Export to Google Earth" will export the track and display it in Google Earth. (we do need to update our help file to describe these items in more detail)

Try installing EasyGps. This is an alternative way to download file. When you click on "Export gpx" then a file is created in the folder "..... Documents\EasyPlan3\GpxFiles" and EasyGps is run. ~~(It automatically loads the file)~~
Then try sending the file to the GPS via EasyGps.

Running Easyplan on a Mac:

Easyplan does not run on an Apple Mac.

If you do want to use Easyplan on a Mac, you will need a **Windows Emulating software** to run windows on an Apple computer. For example: Crossover, Parallels, Fusion, Apple Boot Camp

For more information on these programs/options please go to: http://www.fileinfo.com/help/windows_on_mac

Other Issues, please see example below:

Hi there,

Mayday, mayday, mayday!!!

I have been using Easy log for about 3-4 years and have never had a problem.

I tried to open the software program today and was given an error : "list index out of bounds (0)". All my data is gone!!

What now? Please help!

Answer: Sounds like a file is corrupt. Try this:

1. Close EasyPlan if running.
2. Rename the "EasyPlan3" folder in "My Documents" folder to "EasyPlan3x"
3. Run EasyPlan. If the error still occurs then try running the update install again.
4. If you then get no error then close EasyPlan.
5. Start copying some of your files from the "EasyPlan3x" folder to the "EasyPlan3" folder and run EasyPlan after copying. If you get the error then the problem is the file you have just copied. Please send it to me.
(just close EasyPlan when you copy the files and run after copying)
6. The files of importance are:
 - LogBook.dat2 – your logbook file.
 - *.ep1 – all your saved flights – I am sure these are not the source of the error
 - *.dat – some initialization data. Could be a problem
 - *.ini – initialization data. Could be the source of the problem

I would like to know what the real problem is and would be grateful if you could send me the file that is causing the error or zip the files in the "EasyPlan3x" folder and send them to me.