



# Easy Weather



South African  
Weather Service

ISO 9001 Certified Organisation

# Easy Weather



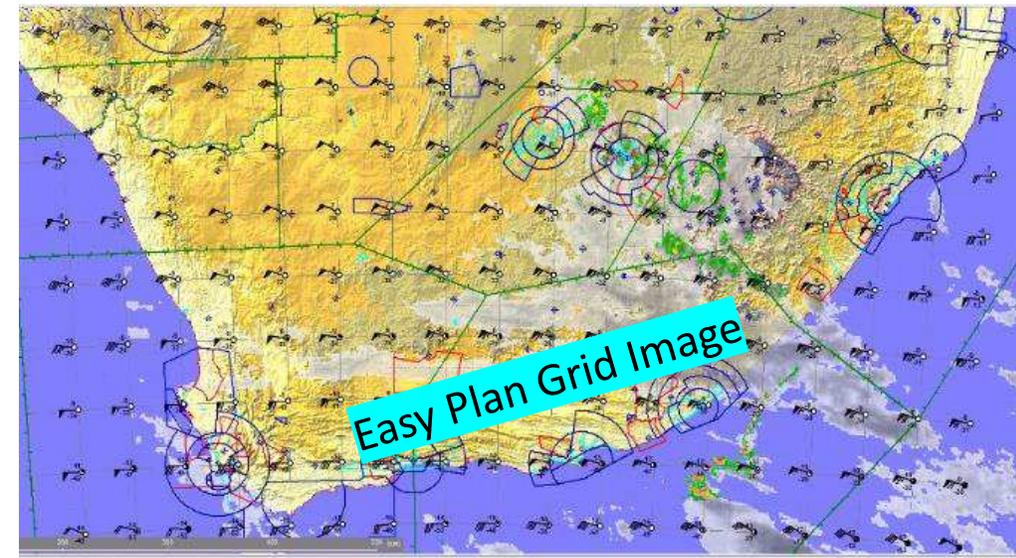
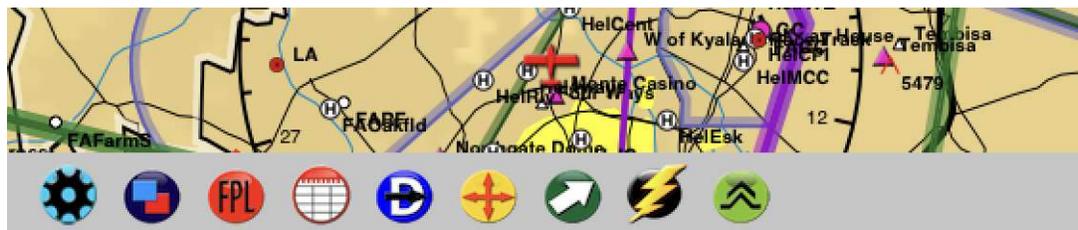
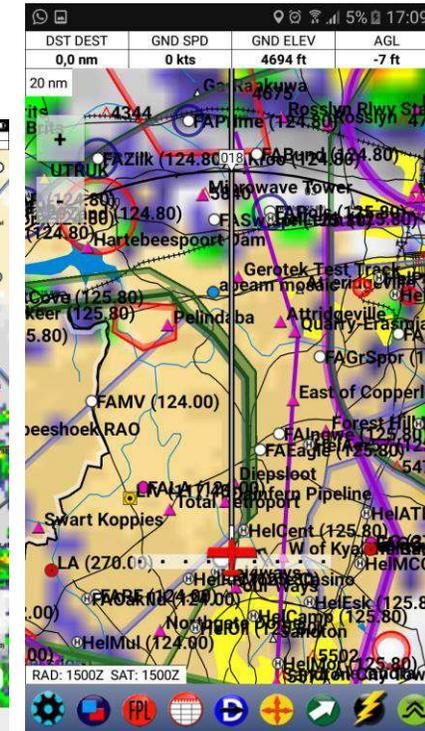
EasyWeather provides a direct weather interface from SA Weather Services to EasyCockpit as overlays on your EasyCockpit map. This service is available in South Africa only. By using your 3G or 4G internet connection, real-time weather can be accessed before flight and even during flight if in cell phone reception range. The weather data is shown in easy-to-understand graphic images and provides a good overall picture of the weather situation.

At a glance you can view **Forecast weather data** covering South Africa which is available for different flight levels. Weather symbols showing the wind direction, wind speed and cloud cover are displayed and by tapping on the symbol, more detailed forecast data for that grid point can be viewed.

**METARs and TAFs** are shown in coded and decoded text format under the Airfield information where weather data is available. You can also search for the TAFs & METARs by Airport Location Indicator: under Map Options select TASFs/METARs, then search for the airfield. The Metars and TAFs will come up.

**Satellite** images provide a general overview of weather conditions in Southern Africa, they are infra-red and update every 15 - 30 minutes. (Auto Update is selected).

**Radar** - overlay radar images are displayed to show precipitation whereby e.g. thunderstorm activities are easily visible on the map. Radar images update every 15 - 30 minutes. (Auto Update can be selected).



ANDROID iOS/APPLE

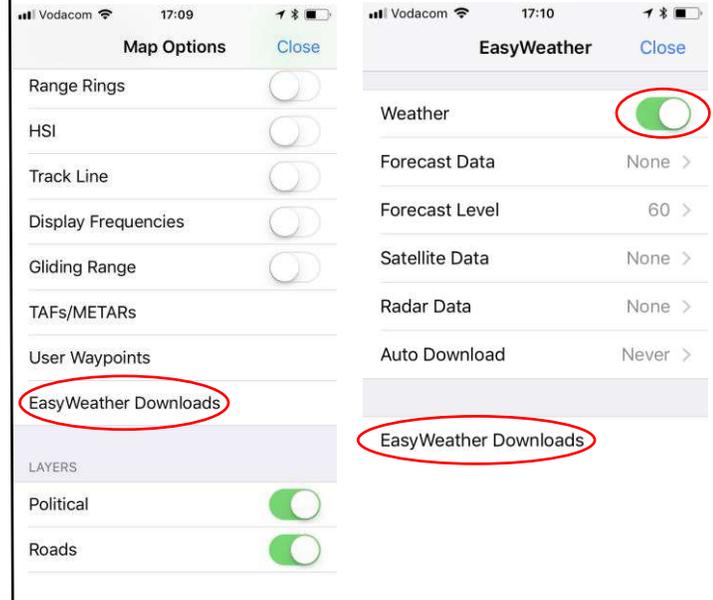
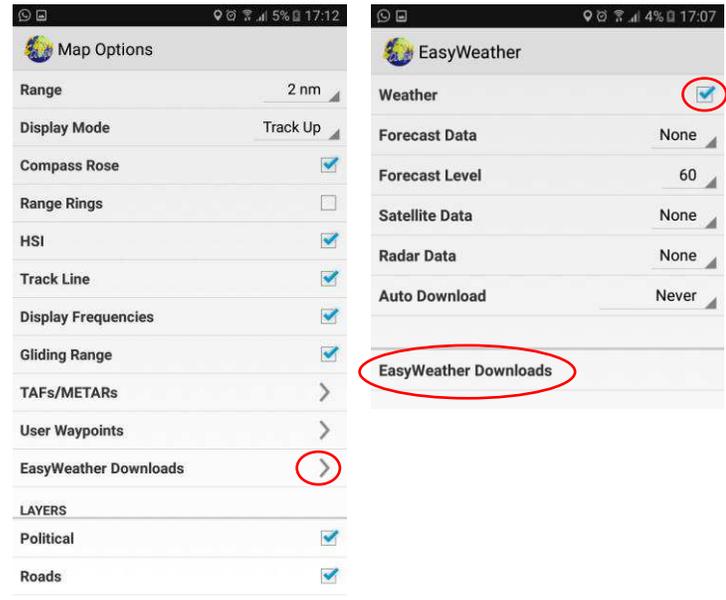
STEP 1 :

If you are subscribed to this product, tap on the Easy Weather symbol (which on the iPhone is only available in Landscape mode)

OR



Go to MAP OPTIONS or tick on Weather Android – tap EasyWeather Downloads



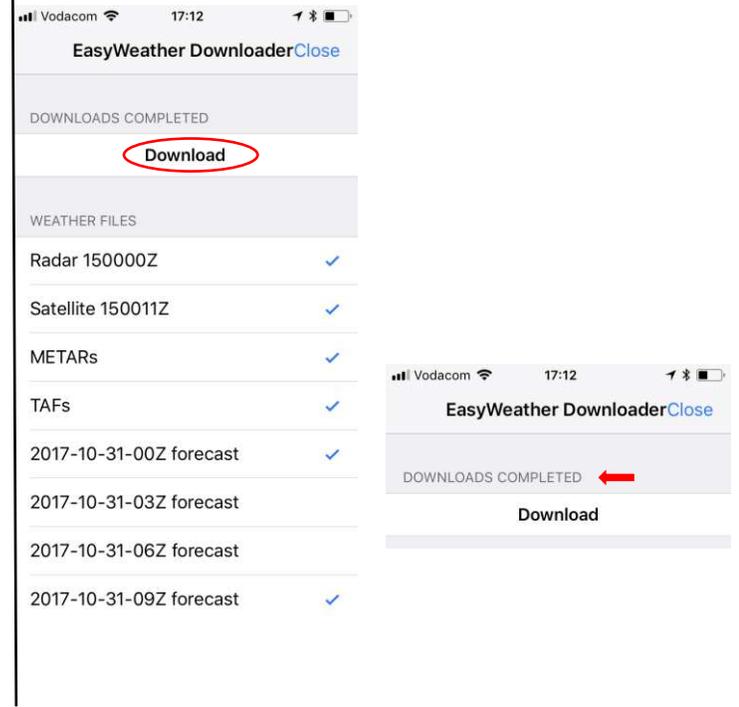
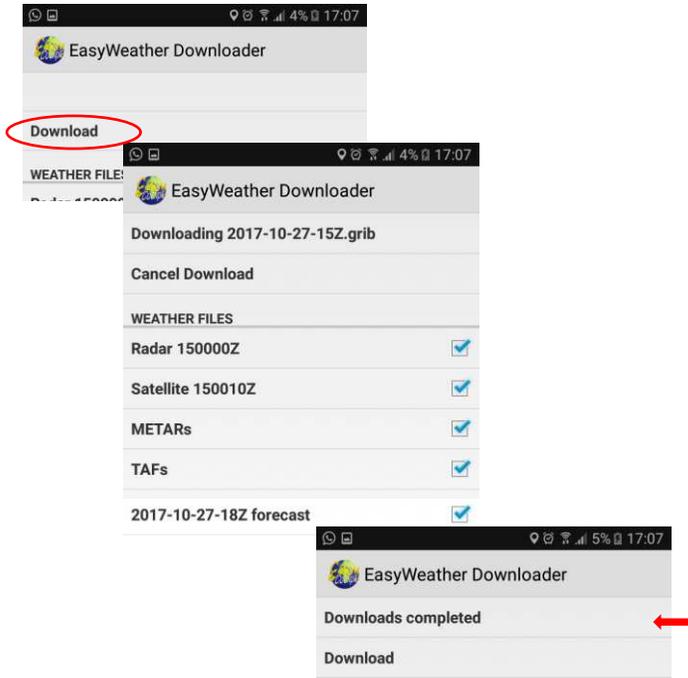
STEP 2 :

A new window will show the available Weather Files: you have the various Forecast Files for a 48h period at different Zulu times: tick a few of them for the time and duration of your flight,

select Radar, Satellite, TAFs/METARs and select tap/click DOWNLOAD

The App will confirm when the Download is Complete

The EasyWeather downloader can now be closed



DOWNLOADING EASYWEATHER FILES

### STEP 3 :

Here you select the downloaded weather data:

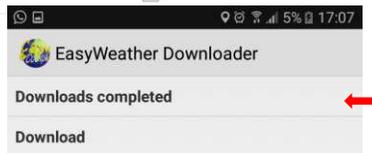
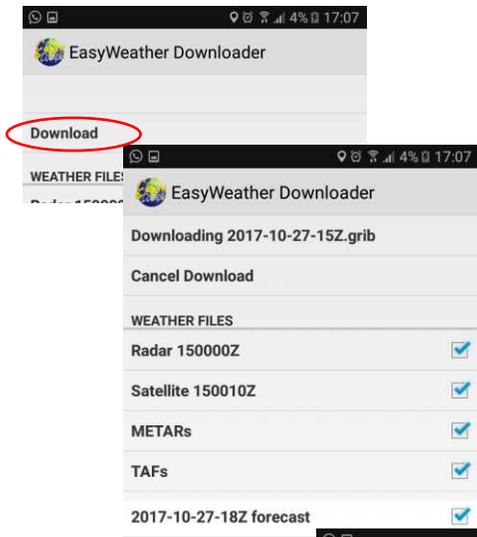
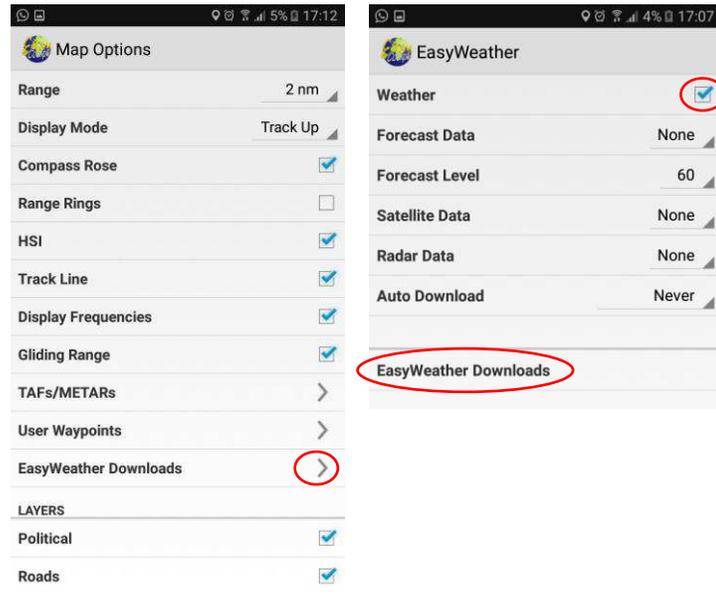
**Forecast data** (the date and time required)

Select a **Forecast Level**

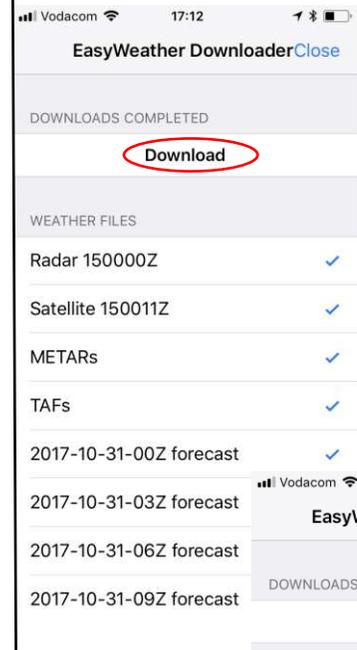
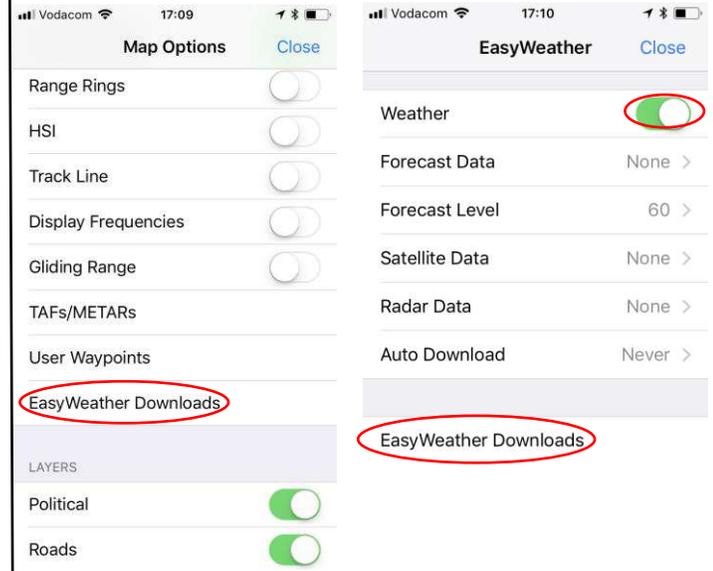
**Satellite Data** and the

**Radar Data** come on automatically but they can be turned off.

## ANDROID



## iOS/APPLE



## STEP 4 :

Tap on the Easy Weather Symbol (available in landscape in iPhones)

OR

Weather under Map Options, the Weather Forecast data shows the following :

**Forecast data** (the date and time required)

Select a **Forecast Level**

**Satellite Data** and the

**Radar Data** come on automatically but they can be turned off.

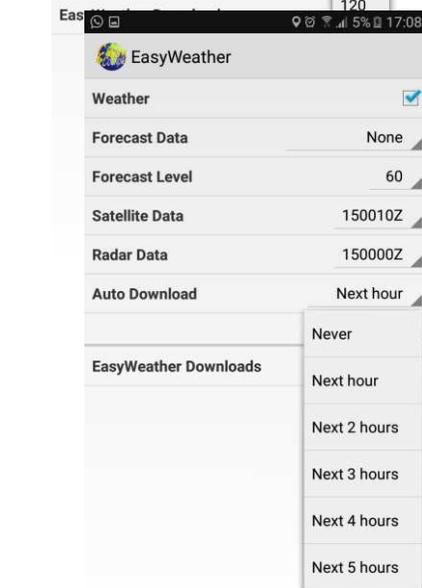
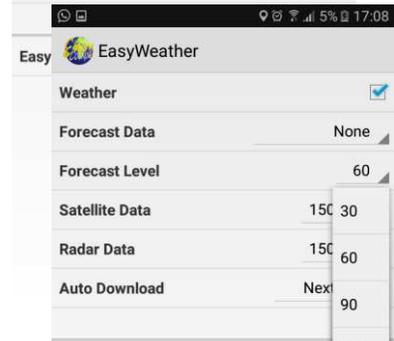
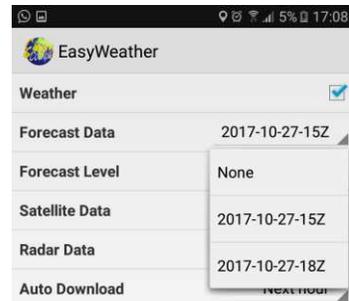
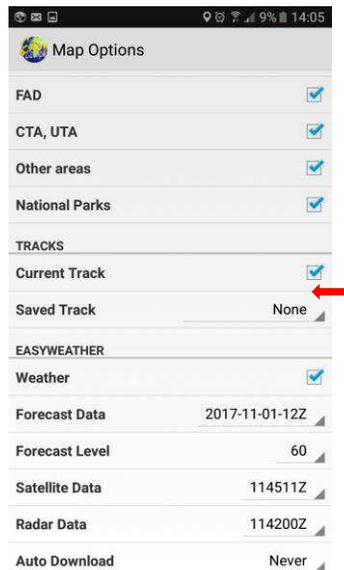
You can also set your Weather downloader to **Auto Download** the **Satellite and Radar** information during flight.

The Weather Forecasts will be fixed according to the **Forecast Data**.

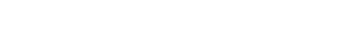
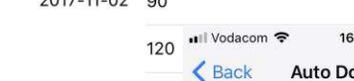
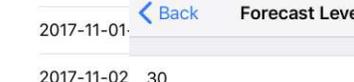
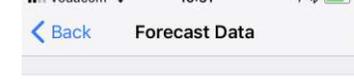
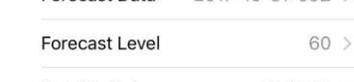
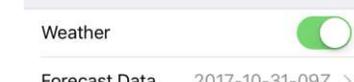
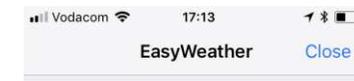
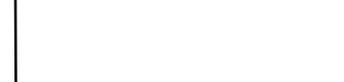
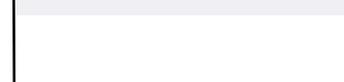
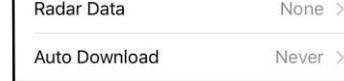
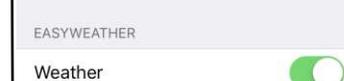
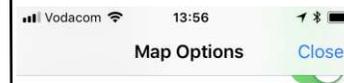
Once the Download is complete, you can exit/go back to Easy Cockpit Map View.



or



## iOS/APPLE



# READING & UNDERSTANDING WEATHER SYMBOLS

The weather/wind forecast Circles are showing on the map grid and can be selected at different Forecast Levels in Easy Cockpit (full SA Grid compliments of Easy Plan).

These symbols, have three parts:

- a Circle, visually indicating cloud cover but also showing additional information when hovering over
- Wind Barbs show Feathers or Flags indicating the wind speed (eg. 18 Knots)  
The Wind speed is indicated by feathers at the top of the vane. These feathers show wind speed adjusted to the nearest 5 or 10 **Knot**.
- A 50 knot wind is depicted by a Flag or Pennant.
- the Staff indicates the wind direction is **INTO** the Circle **FROM** the end of the weather barb (eg. 313°). Wind direction is shown as a compass degree.

As a quick reference, in EasyPlan, the Weather/Wind Forecast Circles also show the Temperature and Dewpoint next to it. So, at a glance, you have all the vital information available: Cloud cover, wind direction, wind speed, temperature and dew point.

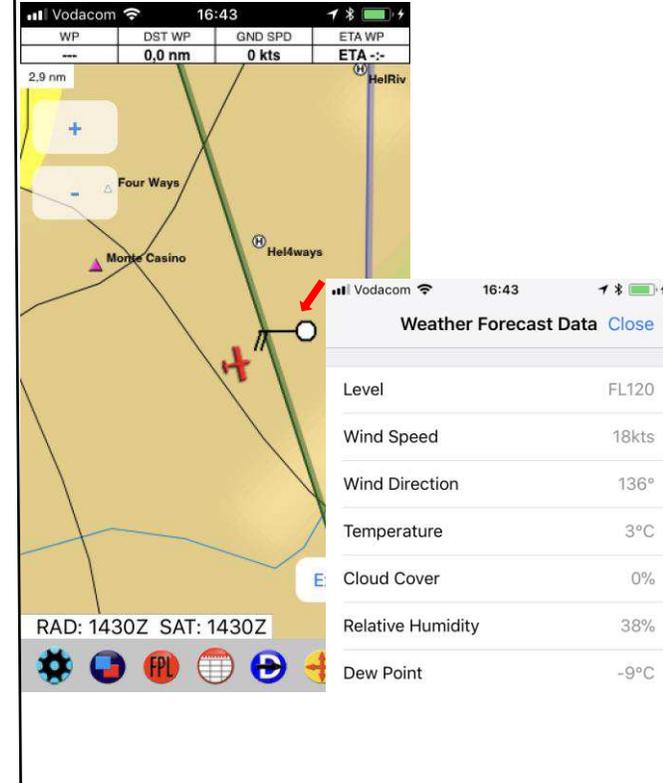
## Cloud Cover

Symbol	Scale in oktas (eights)	Description
	0 eights	Sky completely clear
	1 eights	
	2 eights	
	3 eights	
	4 eights	Sky half cloudy
	5 eights	
	6 eights	
	7 eights	
	8 eights	Sky Completely overcast



	Calm wind
	5 knots
	15 knots
	20 knots
	25 knots
	55 knots

ANDROID
IOS/APPLE



## FORECAST DATA

- Forecast files are updated every 24 hours for the successive (following) 48 hour period. These are located on a grid as per data supplied by SA Weather Grid
- Tap on the Weather Barb you would like to view and the Forecast data will be displayed, including:

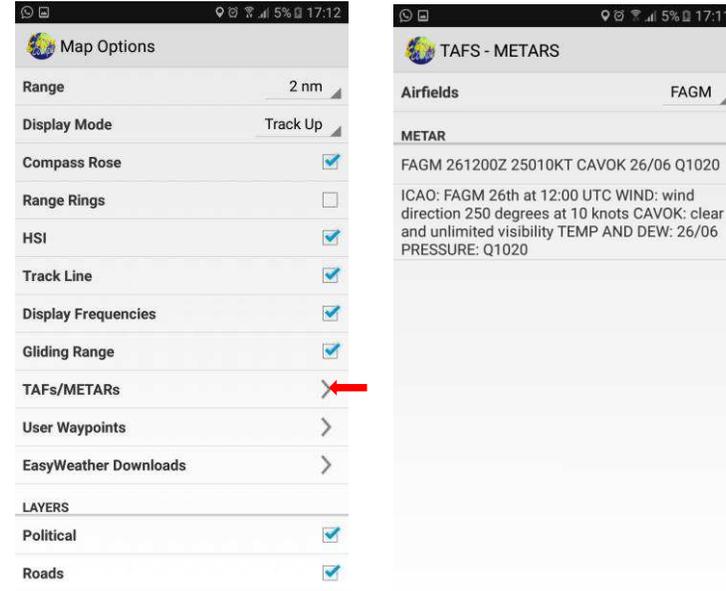
- Forecast Level
- Wind Speed
- Wind Direction
- Temperature
- Cloud cover
- Relative Humidity
- Dew-point

# METARS & TAFS

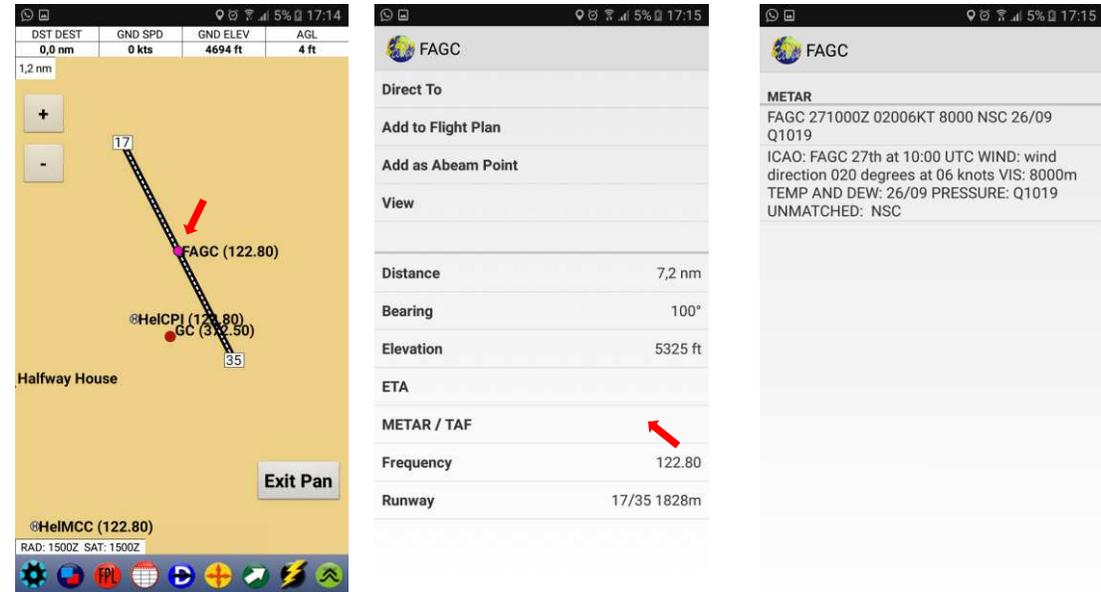
- **To view:** select an airfield, right click and select "View". Scroll down, where you will find the METARs and TAFs that you downloaded with EasyWeather
- METARs and TAFs are only available for airfields that have Weather Stations, once you have downloaded EasyWeather.

This information can be viewed a number of ways once it has been downloaded:

1) Tap on TAF/METARs in the Map Option & Select an Airfield



2) On your Map view, Tap on the Airfield



## SATELLITE & RADAR

**Satellite** images provide a general overview of weather conditions in Southern Africa. They are infra-red and updates are available every 15 - 30 minutes. (if Auto Update is selected EasyCockpit will update the data when it receives G3 data). This focusses on cloud cover views from space but does not give cloud base.

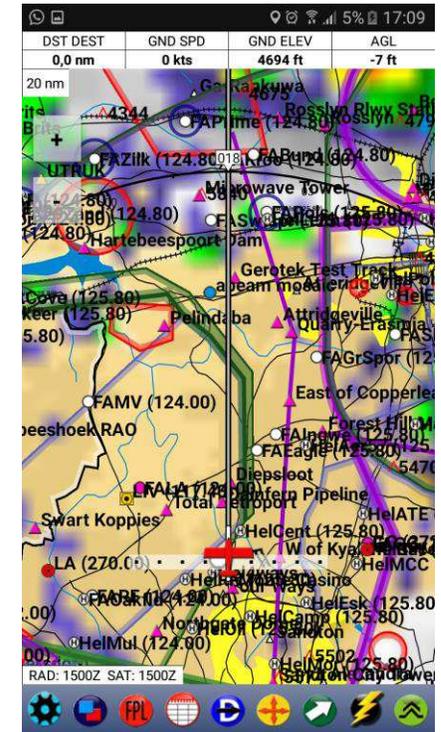
Overlay **radar** images are displayed to show precipitation in the clouds. This will provide you with a good overview of e.g. thunderstorm activities. Updates are available every 15 - 30 minutes. (Auto Update is selected).

Please take note that various atmospheric and environmental conditions can negatively affect radar data and caution should be exercised when interpreting the information.

Some of these effects include:

- Returns from mountains and other non-meteorological targets
- Attenuation of the radar signal when viewing weather echoes through areas of intense precipitation (with C-band radars)
- Temperature inversions in the lower layers of the atmosphere which bend the radar beam in such a way that ground clutter is observed where normally not expected
- The “bright band” which is a layer of enhanced reflectivity caused by the melting of ice particles as they fall through the 0C level in the atmosphere and which can result in over-estimation of rainfall.

EasyWeather was developed by Aviation.Direct (Pty) Ltd, in conjunction with South African Weather Services. Downloads are subject to subscriptions. A valid EasyCockpit subscription is required before the weather module can be used.



EasyWeather uses the following Radar colour coding to indicate the strength of the return:

Colour	Radar Reflectivity	Rain Rate mm/hr	Comments
Pink	65 dBZ	60 ~ 200	Extremely heavy rain, severe thunderstorms, hail likely
Red	55 dBZ	50 ~ 50	Heavy rain, thunderstorms, some hail possible
Orange	45 dBZ	40 ~ 10	Moderate Rain, showers
Yellow	35 dBZ	30 ~ 3	Light rain
Green	25 dBZ	20 ~ 1	Drizzle, very light rain
Blue	15 dBZ	10 ~ 0.2	Significant but mostly non-precipitating clouds