

Public Meeting 29th August 2017

2017STH027 - Bega Valley - DA 2017.445

1070 Princess Highway, Frogs Hollow

Public Concern/Statement - Flight Paths

Response

THERE ARE NO SUCH THINGS AS DESIGNATED FLIGHT PATHS FOR FLIGHT SCHOOLS.

Training aircraft operate freely within the training area adhering to the flight operation regulations as regulated by RA-Aus and CASA. A complete historical record of every training flight is recorded and kept - detailing the aircraft's flight track and operational height during the flight training lesson. **This can and will be used to verify operational compliance.**

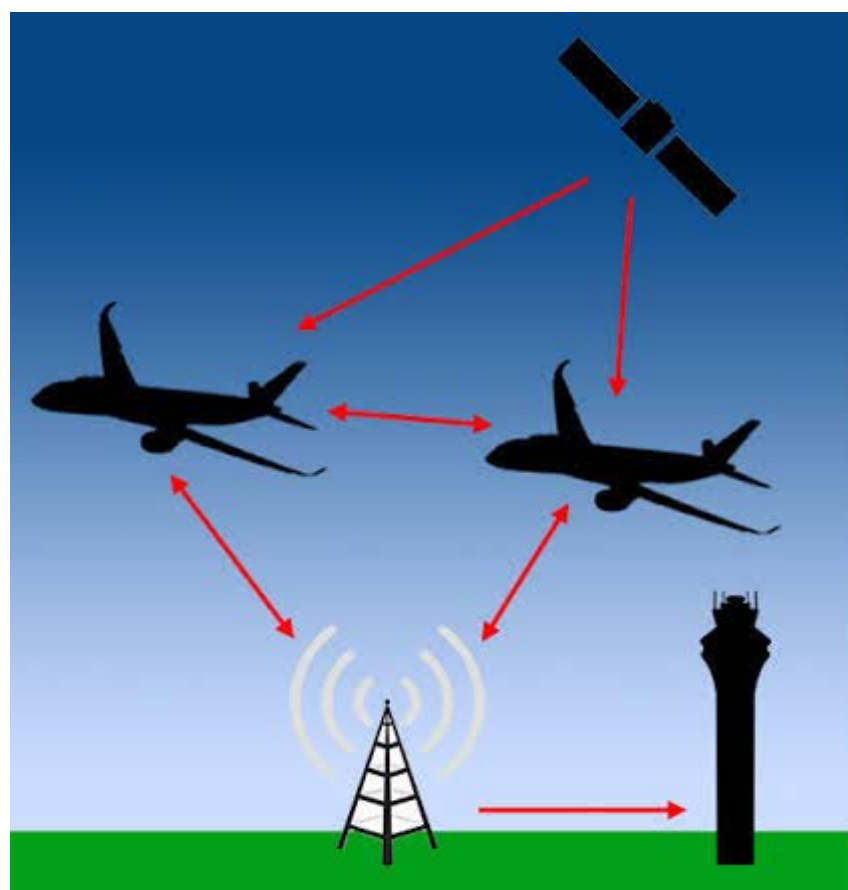
Aircraft Operations

Every aircraft used for training will be equipped with the latest technology both for in flight situational awareness and post flight debriefing.

Each aircraft will be fitted with:

- **Mode-S transponder and;**
- **ADS-B (Automatic dependent surveillance broadcast)**

ADS-B is a broadcast surveillance system in which an aircraft automatically transmits to ground stations and to other air traffic its identity, precise location, altitude, velocity and other information enabling it to be tracked. The system requires an aircraft to be fitted with systems such as a barometric encoder and global navigation satellite system (GNSS) equipment. While ADS-B is required only for aircraft operating under instrument flight rules (IFR), it also offers substantial benefits for visual flight rules (VFR) pilots.



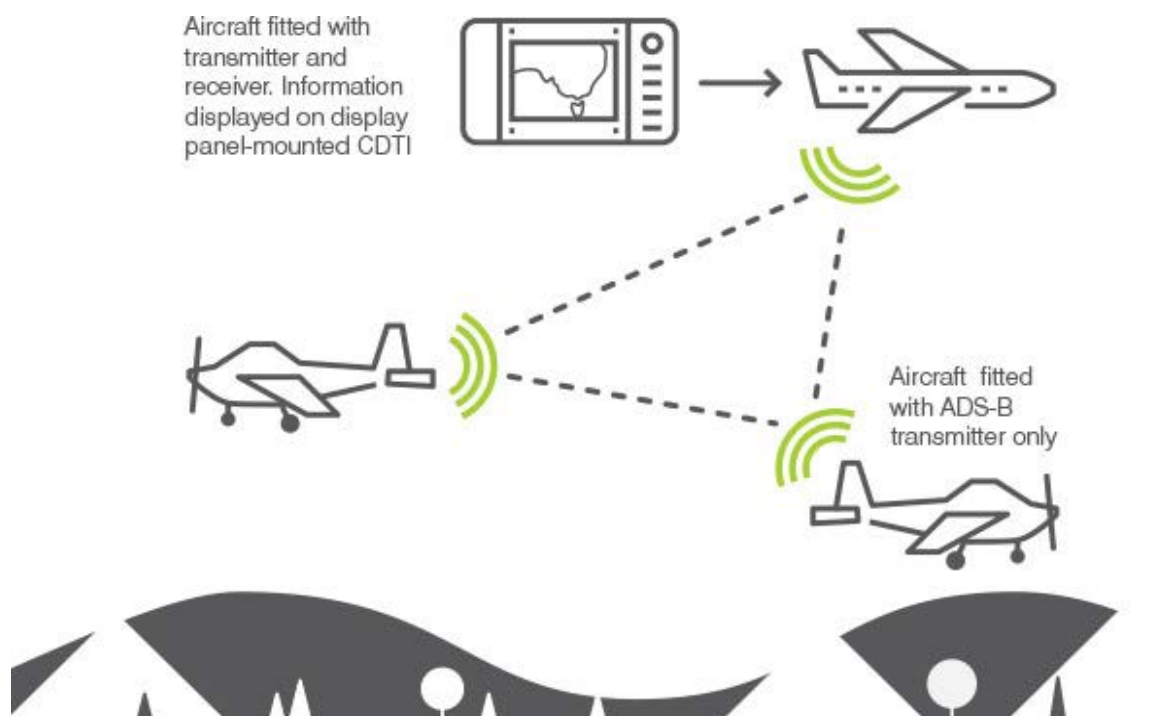
1. GPS satellites provide location information to ADS-B equipped aircraft.

2. ADS-B equipped aircraft transmit altitude, speed, and velocity information to other ADS-B equipped aircraft and ADS-B ground stations

3. ADS-B ground receive stations provide aircraft location back to other aircraft, as well as air traffic control centers.

Aircraft can also be equipped with a cockpit display of traffic information (CDTI)

The students will through the use of their iPads have a moving map display with their location and live traffic display of any other SAA training aircraft in the air and any other ADS-B equipped aircraft flying in the vicinity.



Flightradar24 is the world's most popular flight tracker. Designed to watch aircraft move around the world in real-time on a detailed map. Flightradar24 aggregates data from three sources: Automatic dependent surveillance-broadcast (ADS-B). ... The aircraft-based transponders use the GPS and other flight data input to transmit signals containing aircraft registration, position, altitude, velocity and other flight data.



This technology is vastly above and beyond what is required for Recreational Flight Training however the benefits are huge. Beyond the obvious safety and situational awareness advantages, Students are able to watch on the big screen as their class mates go on navigation exercises. This aids in the teaching process and further motivates those awaiting their first navigation flight.

Flightradar24 can also be used to provide precise location & altitude information within the training area making it a great tool for ensuring the aircraft are adhering to the CAR's (Civil Aviation Requirements) and VFR (Visual Flight Rules).

Mitch Boyle.

Senior Flight Instructor.