

FAASTeam presents:

In-Flight Terrain Awareness using Terrain and TAWS Displays

Cockpit technology is becoming more sophisticated and more accessible, which is good news for GA pilots. When used properly, these tools increase our safety in the skies exponentially. One new category of information available to GA pilots is terrain awareness. Terrain Awareness and Warning Systems (TAWS) can vary from simple display of ground elevations to active alerting systems that warn when AGL drops below certain minimums. Newer GPS navigators, including many G1000 displays, include fine-grained displays of terrain and obstacles that can greatly improve the pilot's situational awareness, provided their capabilities and limitations are understood. The goals for all of these systems are to better inform the pilot about terrain separation and to prevent controlled flight into terrain (CFIT) accidents. In this seminar, SCFC CFII and technology expert Brian Eliot defines and examines the common database-driven terrain awareness functions: basic color-coded terrain and enhanced awareness via TAWS-B. Basic terrain awareness compares the aircraft's altitude and GPS position with detailed underlying 3D maps of terrain and obstacle elevations. TAWS-B adds to this a predictive estimate of aircraft trajectory and audible annunciations of terrain and obstacle

Event Details

Sat, Sep 17, 2016 - 12:00 PST

San Carlos Flight Center

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hazards. Brian will offer guidance about how to use and interpret these tools in flight.

Presenter Brian Eliot is San Carlos Flight Center's resident expert for IFR training and Garmin G1000 avionics. He has been flying since 1995 and received all his training in the Bay Area. Brian previously worked as a broadcast engineer, a software developer, and taught computer science at both the undergraduate and graduate levels. He regularly presents at San Carlos Flight Center safety seminars and has a reputation for making complex concepts easy to learn and understand.

Directions: Pilots who fly in should park in transient parking on the opposite side of the field and expect to walk about 10 minutes (.5 mile) to the Flight Center. Suite 215 is upstairs in the northwest corner. On occasion, rides may be prearranged through San Carlos Aviation and Supply.

A message from the National FAASafety Team Manager

Invite a fellow pilot to the next WINGS Safety Seminar in your area.

Sign up for the FAA's safety services at www.FAASafety.gov!

The FAA Safety Team (FAASafety Team) is committed to providing equal access to this meeting/event for all participants. If you need alternative formats or services because of a disability, please communicate your request as soon as possible with the person in the "Contact Information" area of the meeting/event notice. Note that two weeks is usually required to arrange services.