

Pilot Deviations Orlando; FY-2015

Preliminary Stat's, Analyses, Tips for GA Community

Presented to: CFI Seminar

By: Robert Jex, FPM

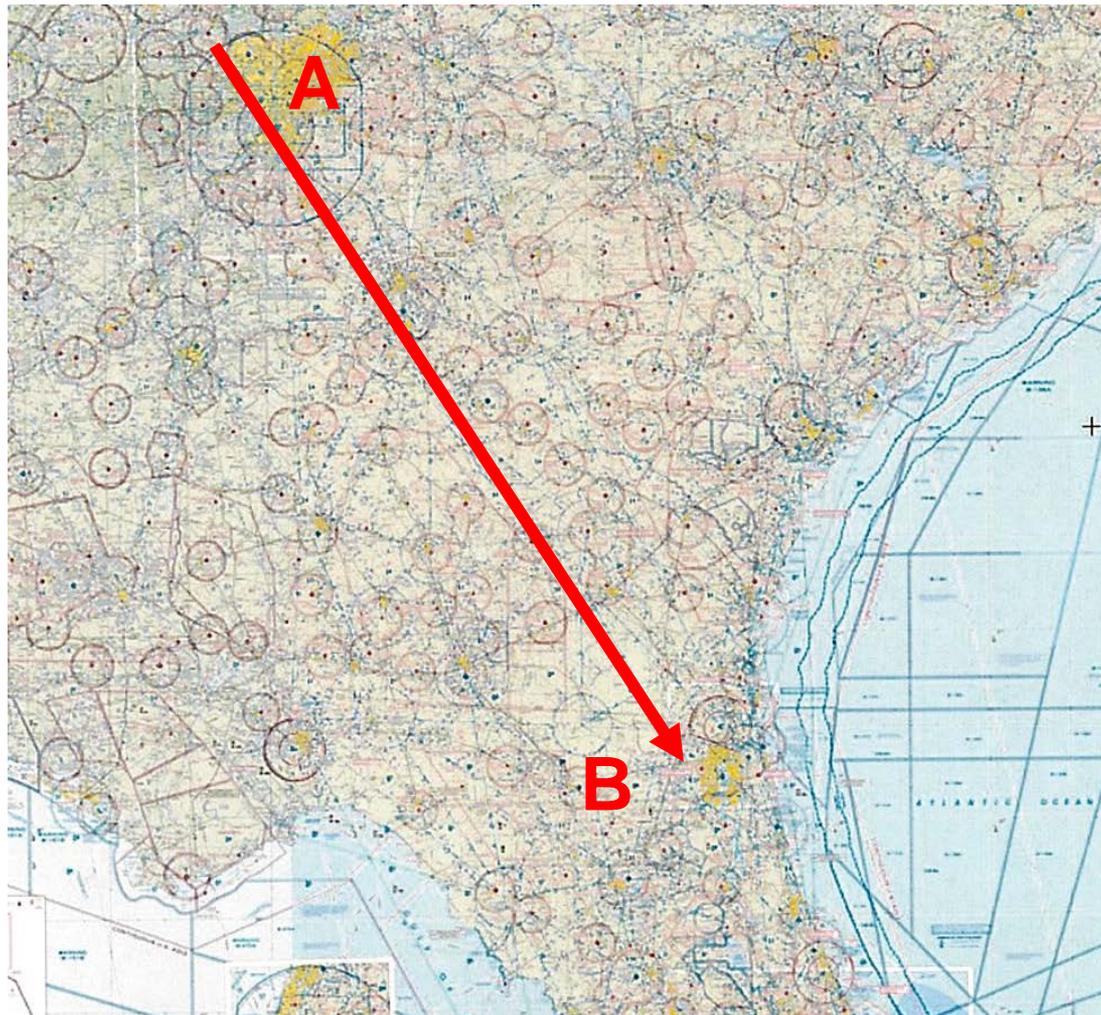
Date: 12 August 2015



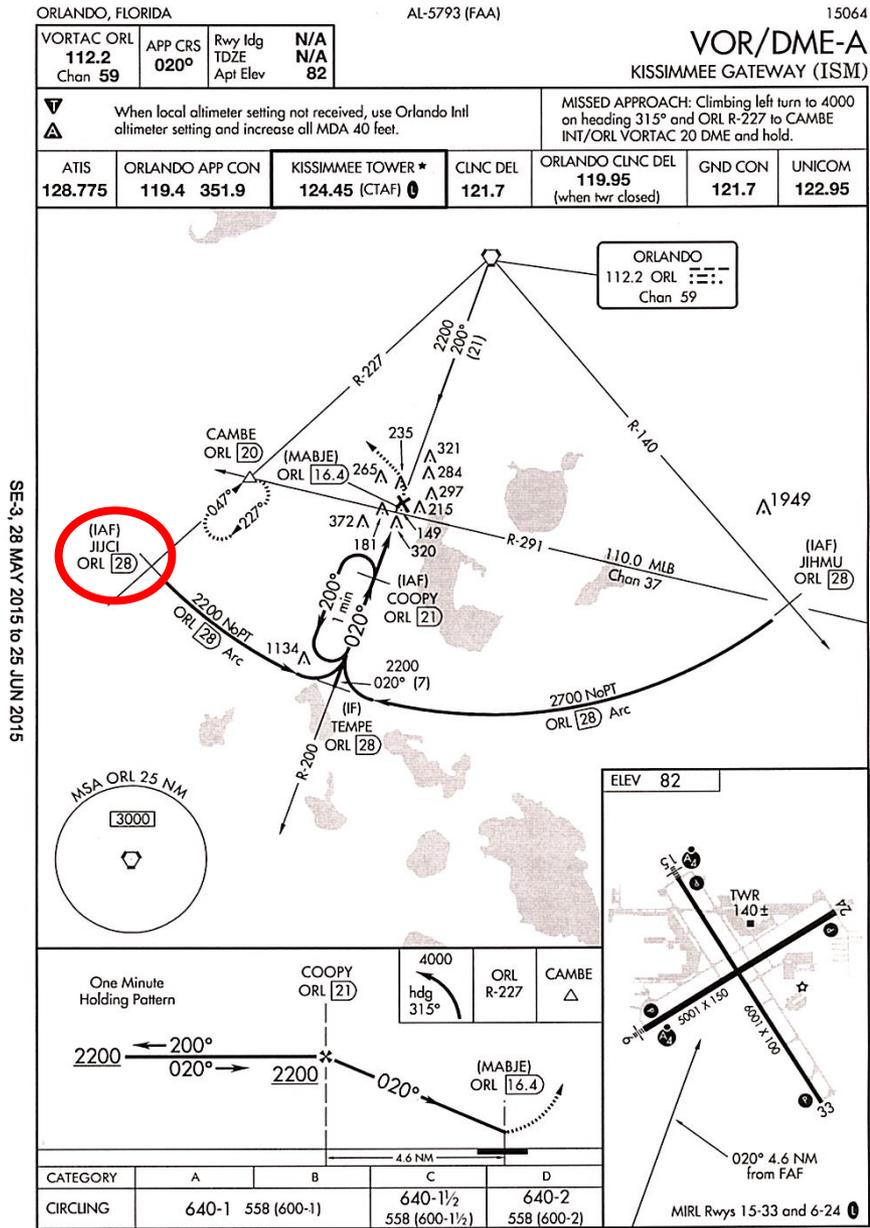
Federal Aviation
Administration



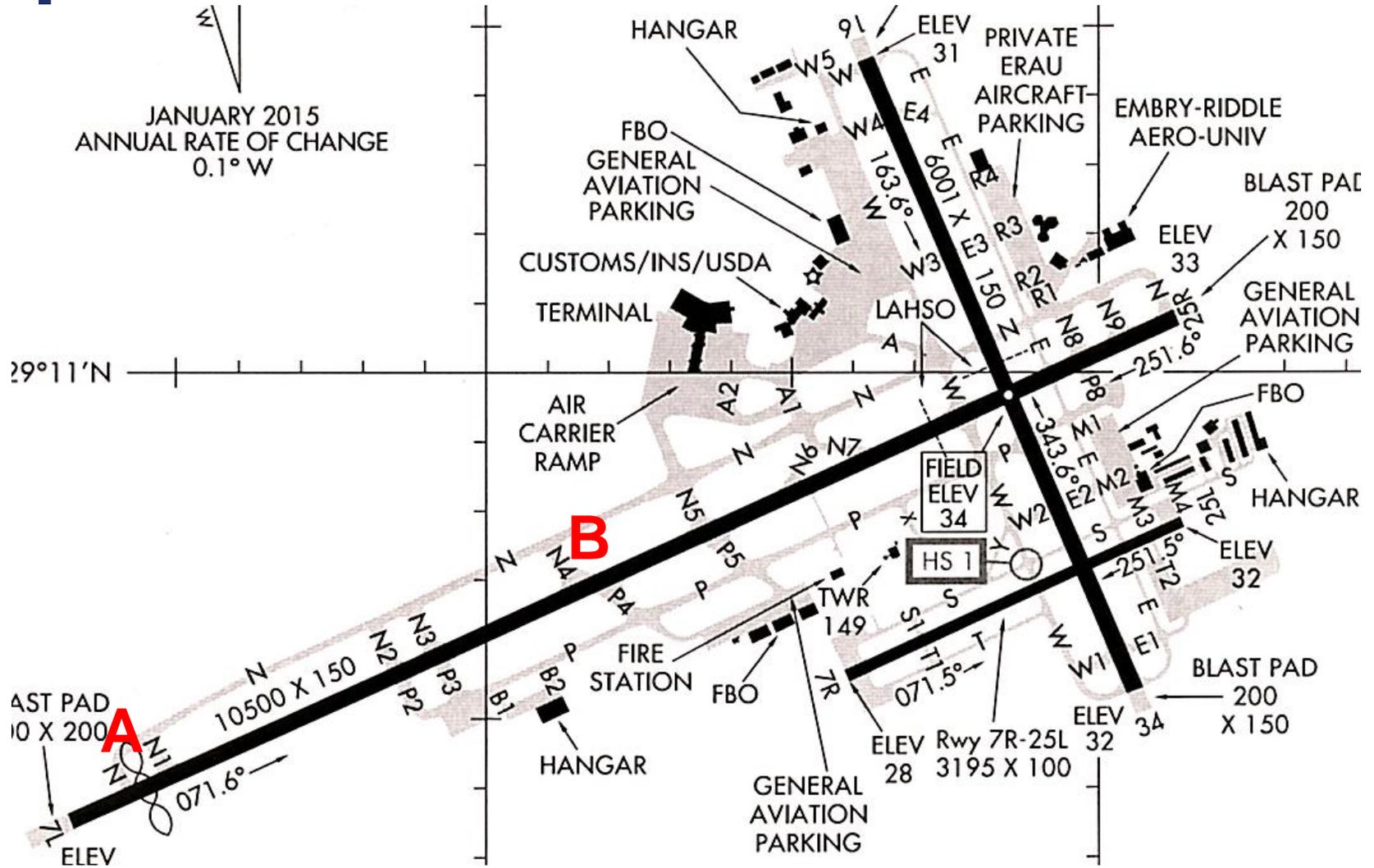
Episode 1



Episode 2



Episode 3



Overview

- **Selected statistics**
- **Indications, trends**
- **Special Emphasis: Expectation Bias**
- **Tips for GA Community**
 - Avoiding a Pilot Deviation
 - “...advise when ready to copy a phone #...”
- **Your questions**



References

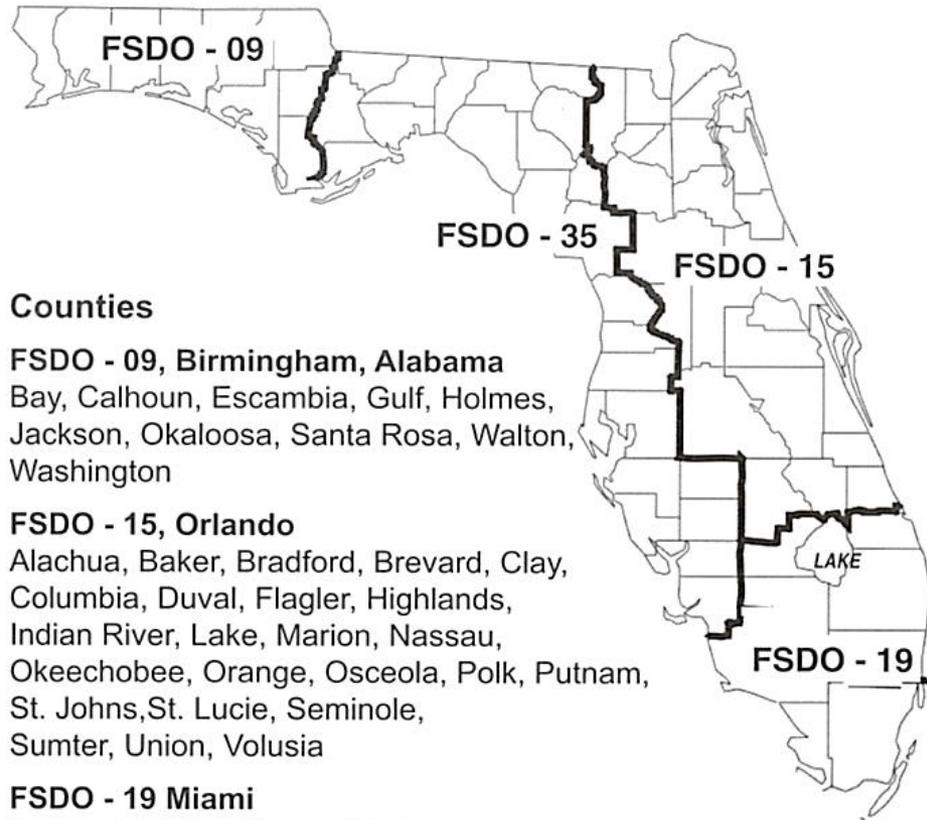
- **ATQA database**
 - Initial reports filed by ATC (FAA Form 8020-17's)
 - Investigation reports filed by FSDO (8020-18's)
- **2015 Florida Airport Directory**
- **IACRA database**



Scope of this presentation

- **Orlando District (FSDO-15) only**
- **FY-15 completed investigations thru Q2**
 - 1 Oct 2014 thru 31 Mar 2015
 - Open investigations not counted til closed
 - More data with passage of time
 - Not an exact science. Many variables.
- **Educational tool to help prevent PD's**
- **Not a source for legal advice**

FSDO Boundaries in Florida



Counties

FSDO - 09, Birmingham, Alabama

Bay, Calhoun, Escambia, Gulf, Holmes, Jackson, Okaloosa, Santa Rosa, Walton, Washington

FSDO - 15, Orlando

Alachua, Baker, Bradford, Brevard, Clay, Columbia, Duval, Flagler, Highlands, Indian River, Lake, Marion, Nassau, Okeechobee, Orange, Osceola, Polk, Putnam, St. Johns, St. Lucie, Seminole, Sumter, Union, Volusia

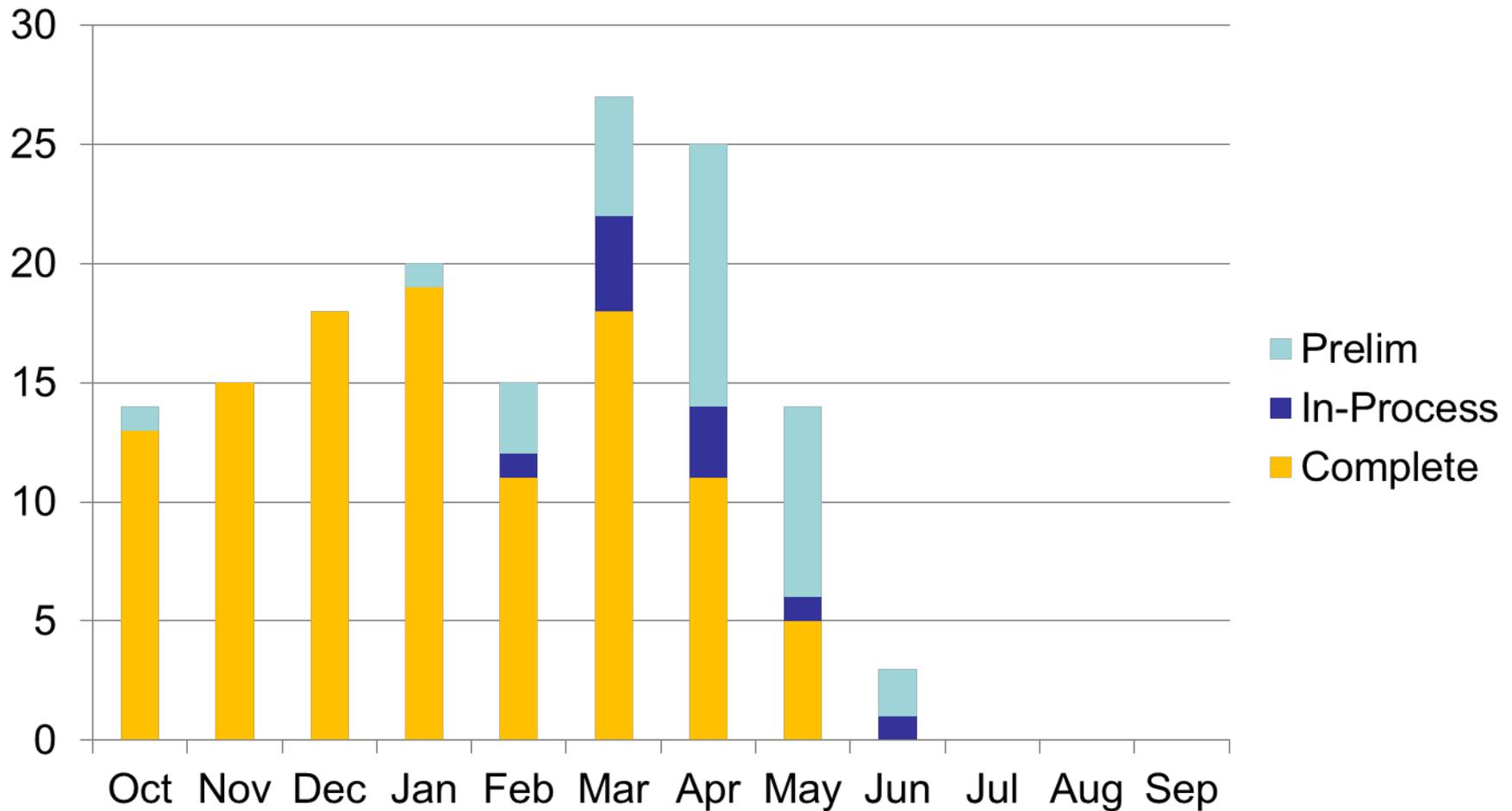
FSDO - 19 Miami

Broward, Collier, Dade, Glades, Hendry, Martin, Monroe, Palm Beach

FSDO - 35, Tampa

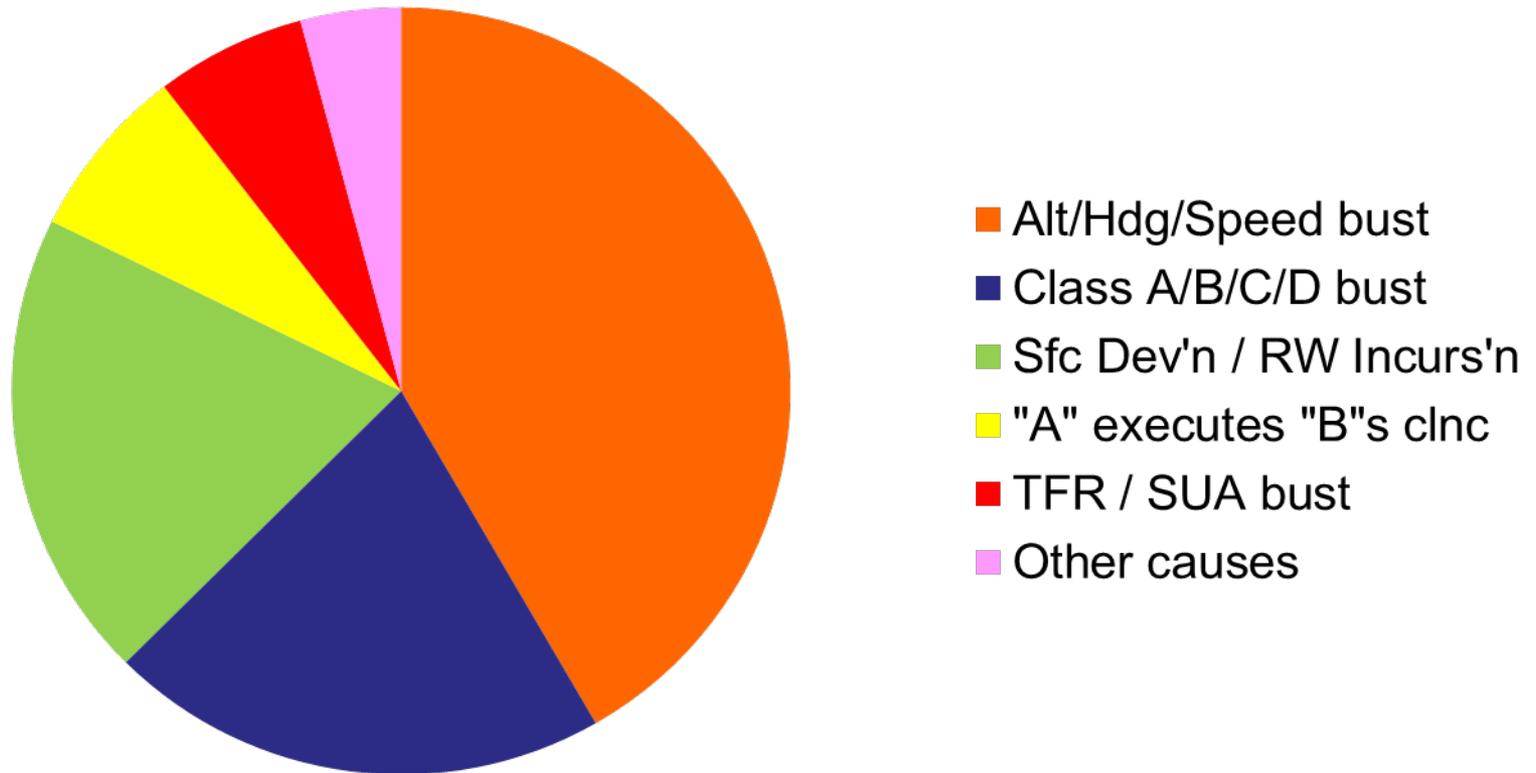
Charlotte, Citrus, DeSoto, Dixie, Franklin, Gadsden, Gilchrist, Hamilton, Hardee, Hernando, Hillsborough, Jefferson, Lafayette, Lee, Leon, Levy, Liberty, Madison, Manatee, Pasco, Pinellas, Sarasota, Suwannee, Taylor, Wakulla

Orlando PD's; FY-15 to date



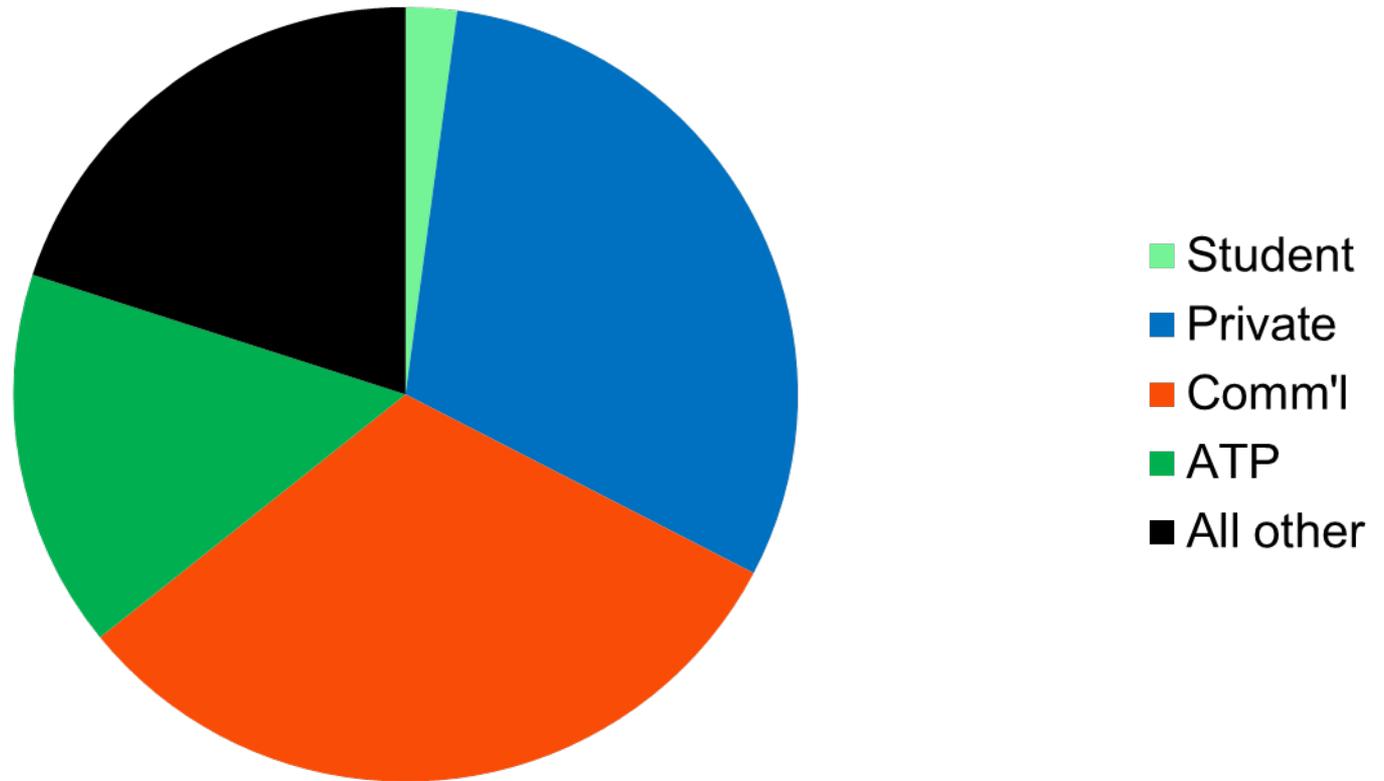
What triggered the PD?

Top Causes



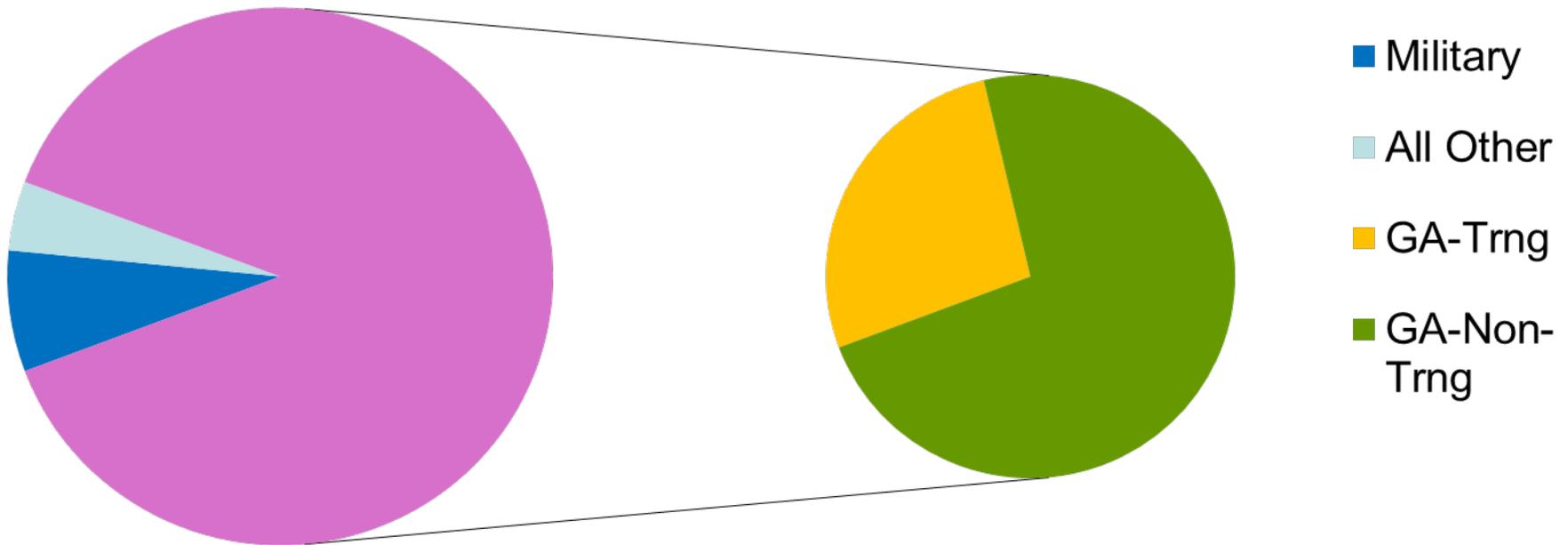
Pilot certification level

Representation

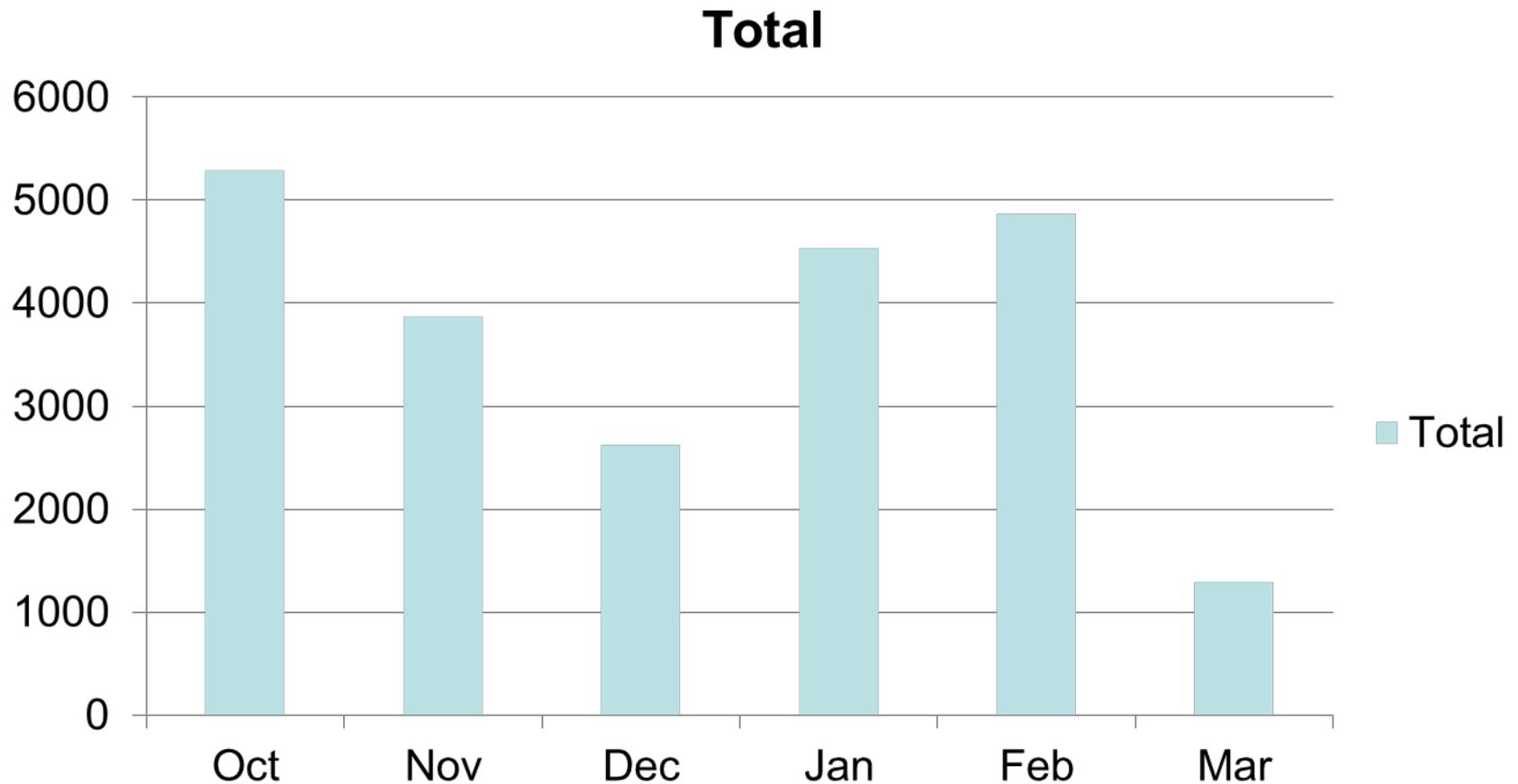


Type of operation

Representation

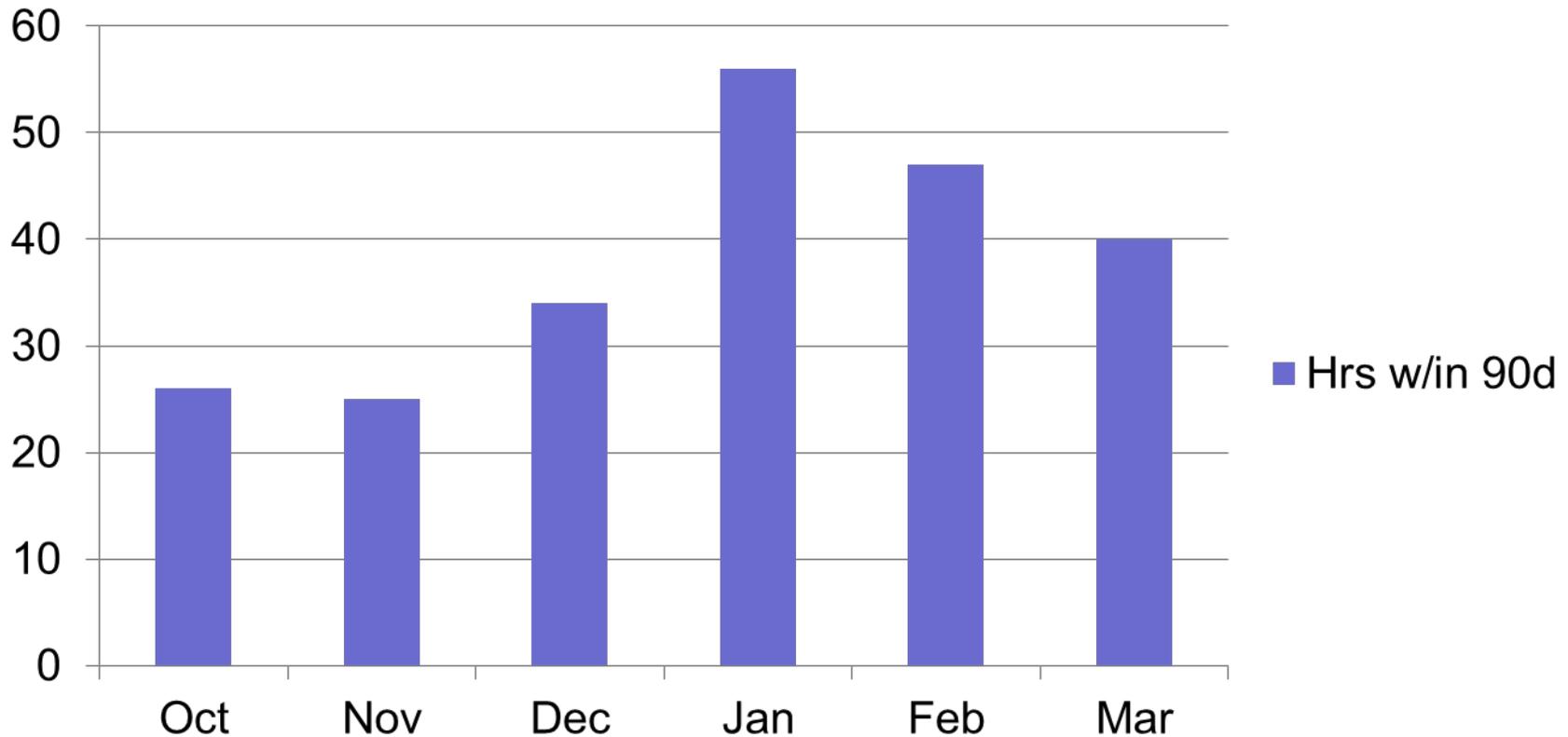


Total flight hour avg's, Oct-Mar



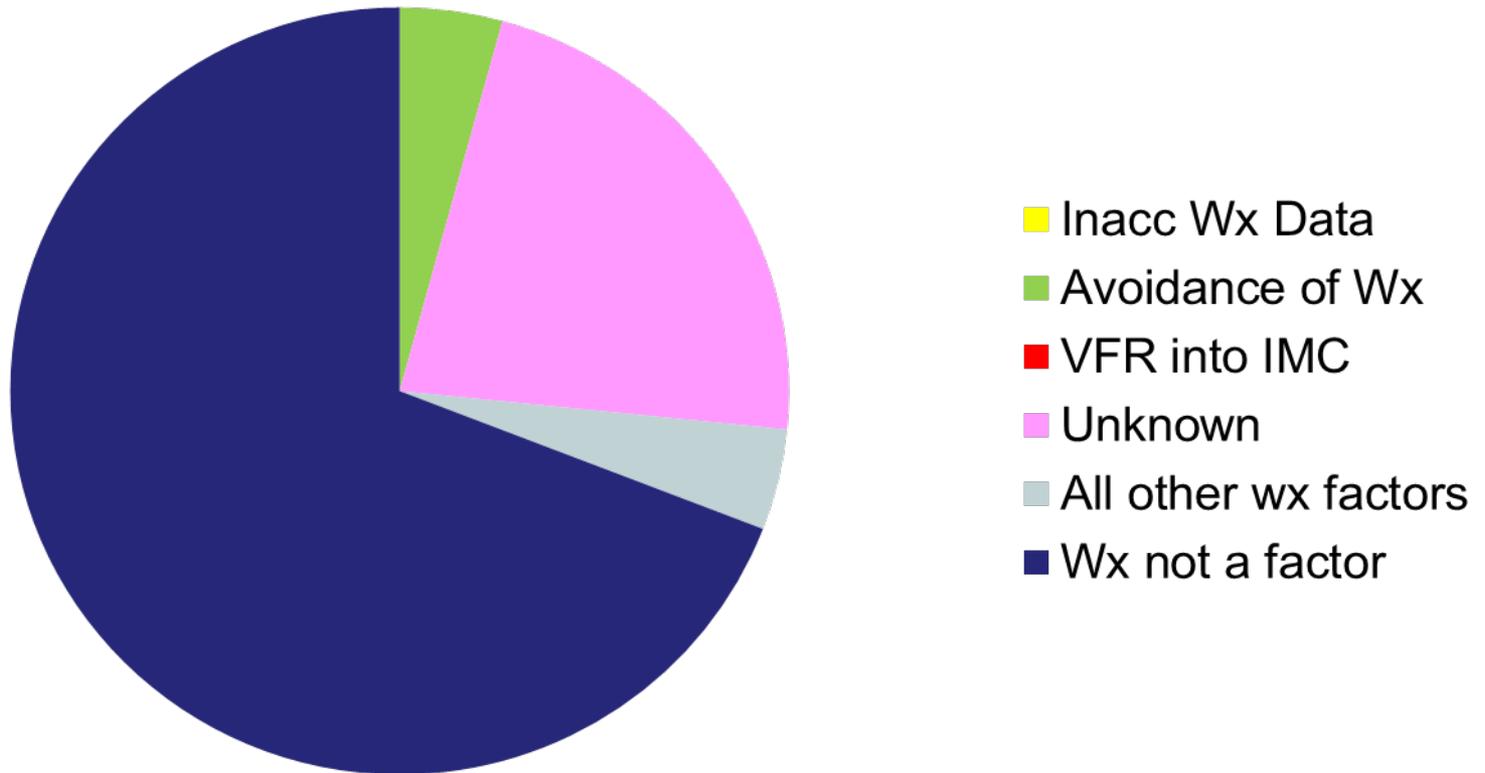
Avg recency of experience in M/M

Hours within last 90-d, M/M

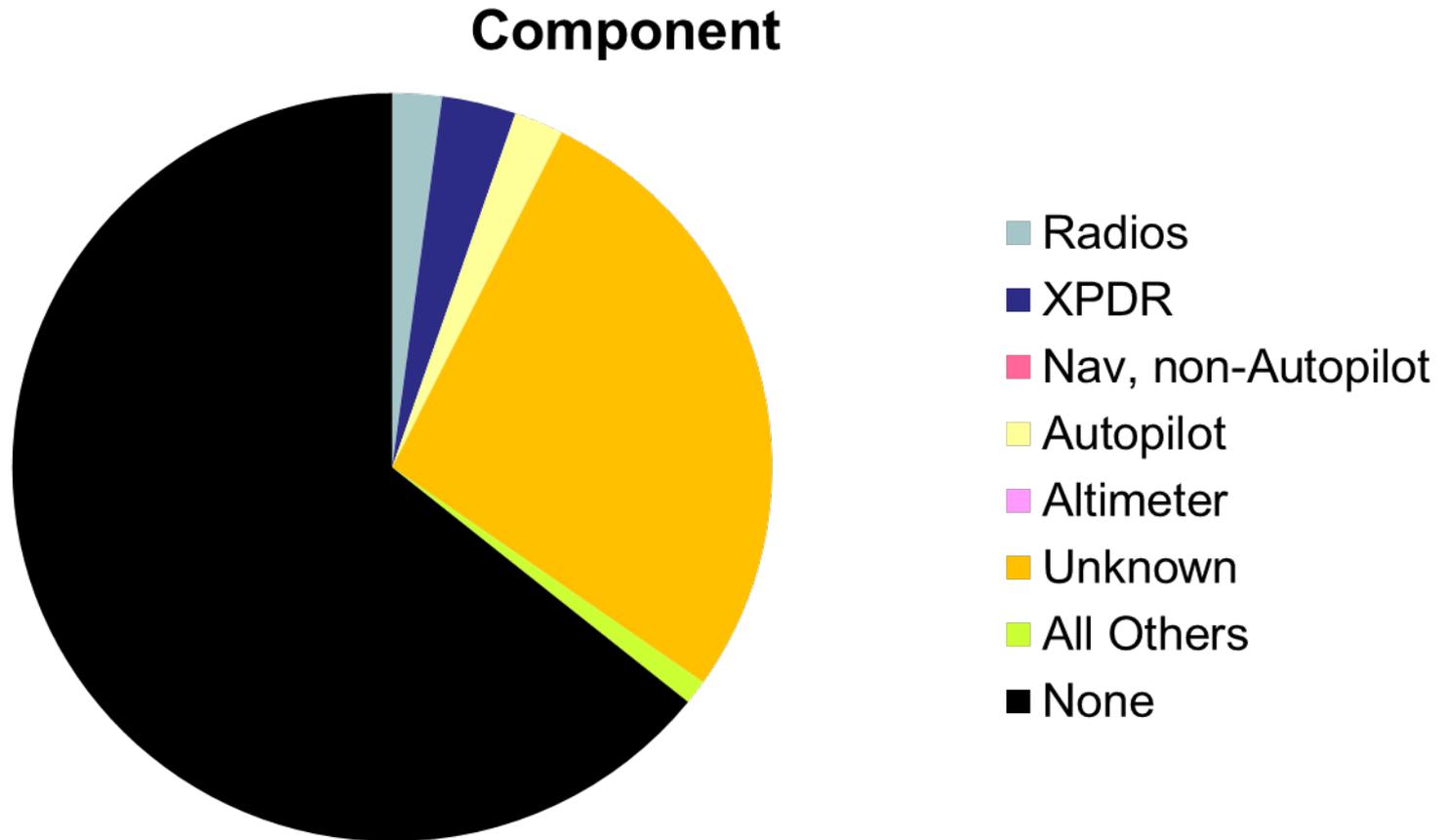


Was weather a factor?

Weather Factors

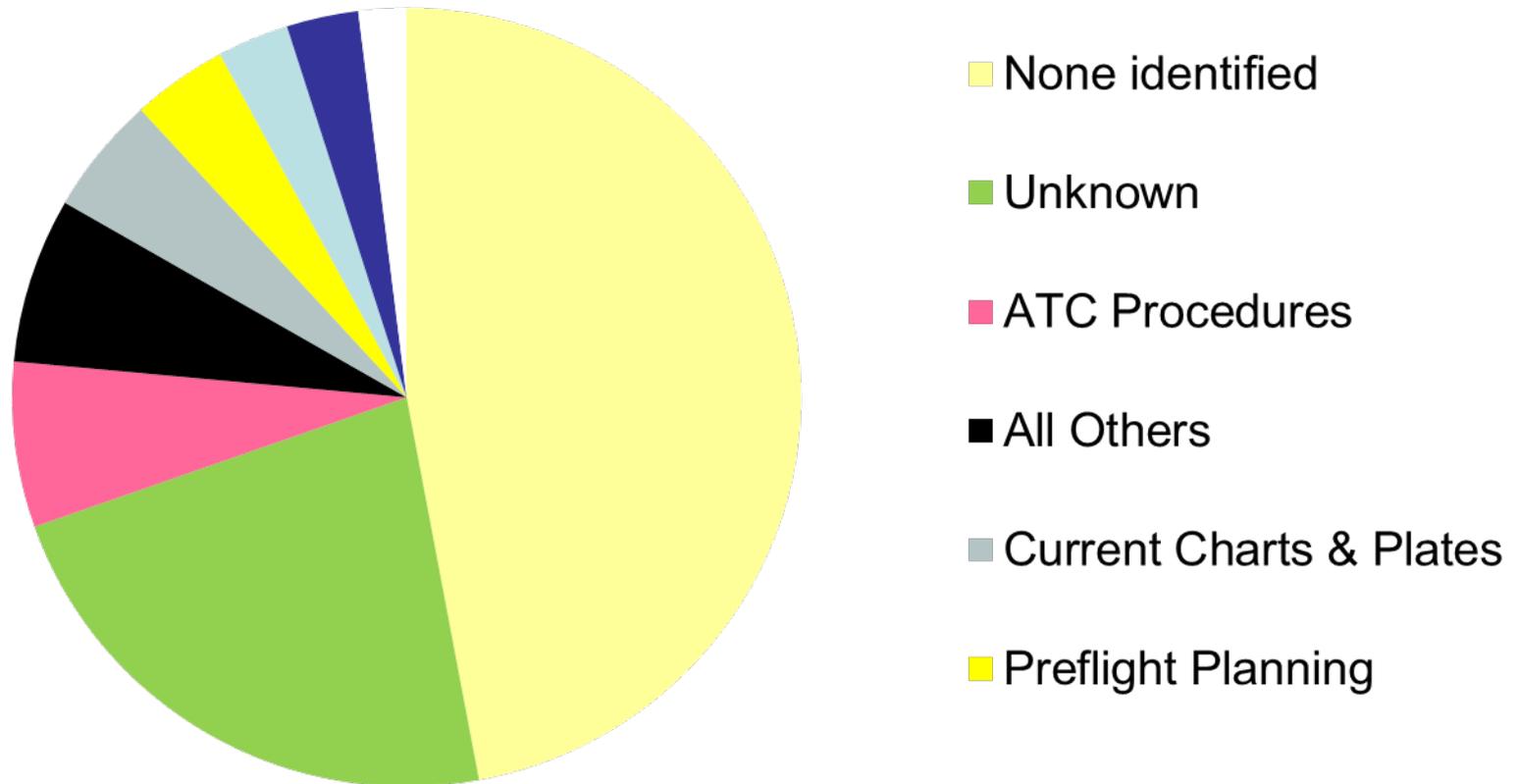


What about equipment malf's?



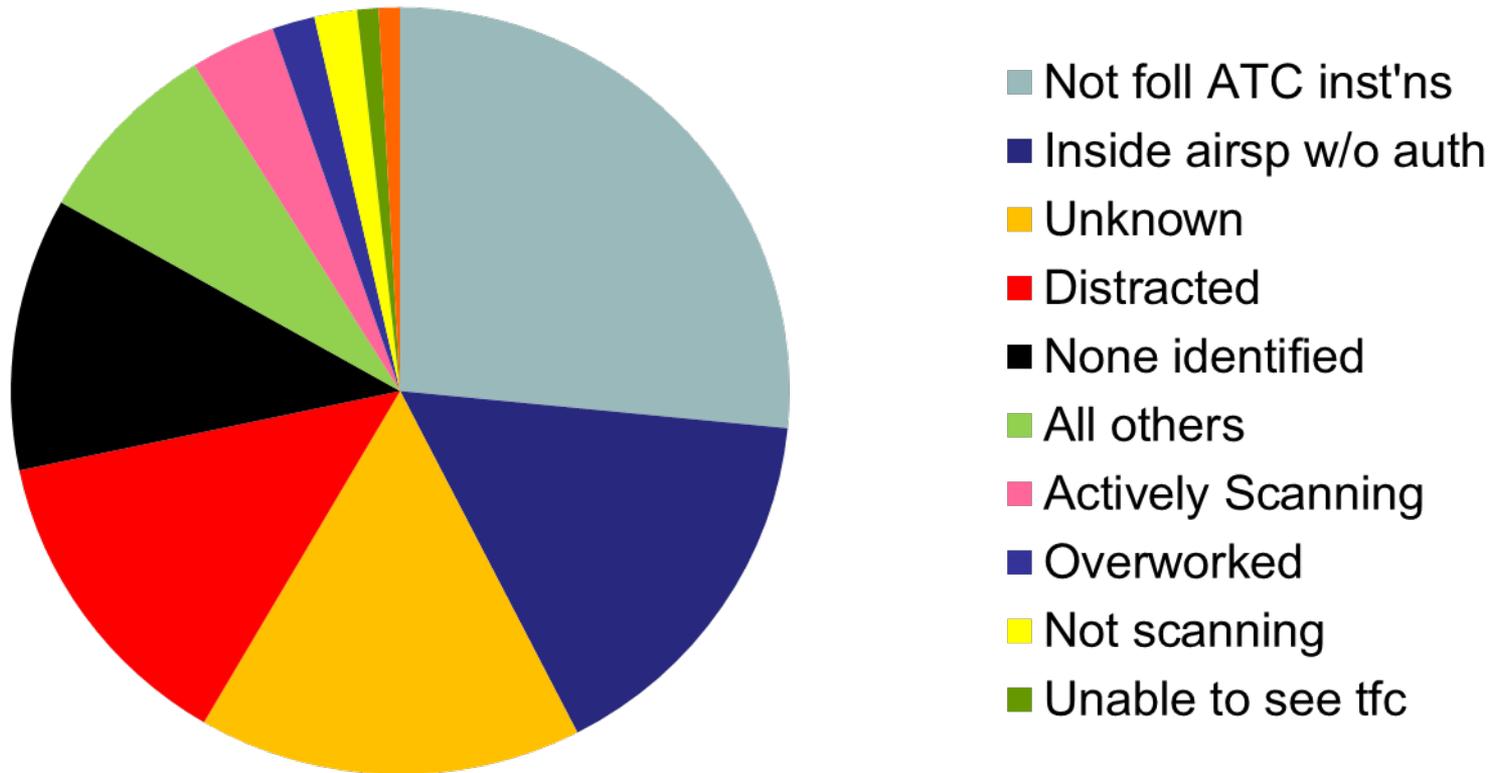
Top knowledge causes reported

Deficiency



Top operational causes reported

Causes



Special Emphasis Area

- “Expectation Bias”

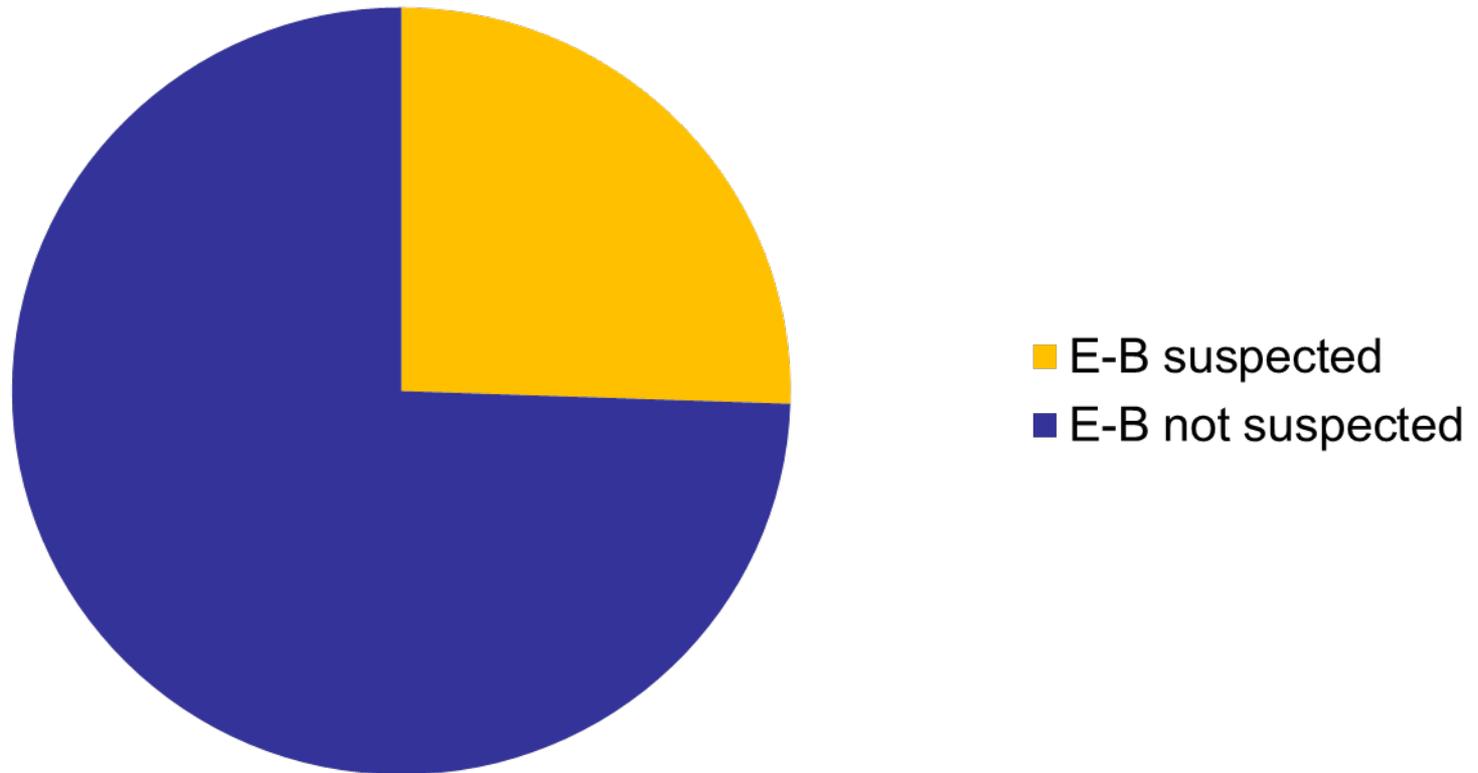
Practical definition:

- The PIC’s erroneous belief that he is authorized to do something which he is not, based on incorrect situational awareness.
- Based on op patterns, and reinforced by repetition
- Common characteristics:
 - Seasoned pilots
 - Home field / Local ops area
 - Routine ops performed many times before
 - Often starts with correct readback

Remember that word “A S S U M E” ???

Occurrence of Expectation Bias

Oct '14 thru Mar '15



3 lead-in scenarios...

- All three demonstrate **Expectation Bias**

Preventing Expectation Bias

- **Minimize expectations! Don't assume...**
- **Listen to ATC's instructions carefully**
 - Stop chatter when ATC tx's until sure it's not for you
- **Write down clearances**
 - Know what it gives you, and what it doesn't give you
- **If unsure, get ATC to say again, or ask for a clarification**

Tips for preventing a PD

- **Maintain basic proficiency**
- **Stay hydrated at all times (“E” in “IMSAFE”)**
 - New study: Being dehydrated is like being drunk
- **Plan the flight carefully, esp if going somewhere new or after long absence**
- **Be alert to changes during flight**
 - Anticipate change!
- **Actively listen to ATC**
 - Write down instructions, clearances from ATC
 - Be alert for Expectation Bias

“...possible Pilot Deviation...”

- **Copy the phone number, read it back**
- **Continue with the flight in progress**
- **Call ATC back when you land**
 - Don't get into an argument; ATC has the tapes!
- **Option: AOPA Legal Services Plan**
- **File NASA Report within 10 days**
 - 141 schools with ASAP: File ASAP report < 24 hrs
- **Work with FAA investigator when contacted**
- **Not restricted from flying until told in writing by FAA**

Questions....



At your service!

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