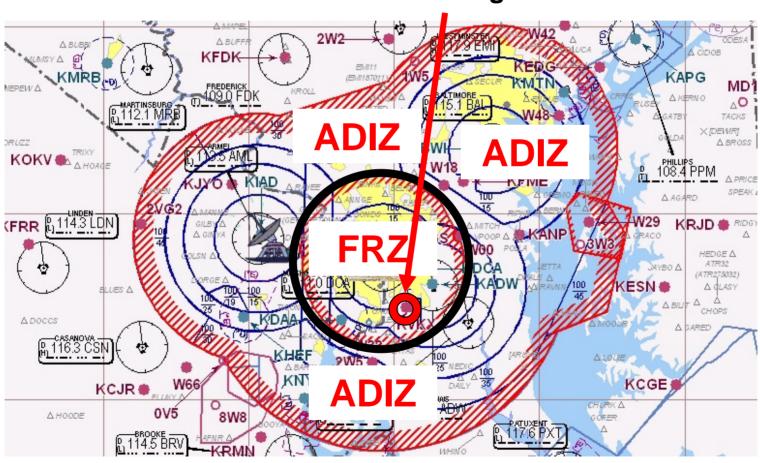
David Wartofsky POTOMAC AIRFIELD

Before the 2nd FAA ADIZ Hearing – Jan 2006



The Good the Bad & the Ugly

- Is there a threat?
- If there is, what can we do about it?
- How can we make it work?

What doesn't work

IS THERE A THREAT FROM GENERAL AVIATION?

- TSA's Statement before State Aviation Conference in Iowa September 2005
 - "Frankly, we just don't see any General Aviation (GA) threat,"
 - "We are really just looking for a good story for Congress."
- Threat Analysis (Senior DIA Analyst) on www.potomac-airfield.com
 February 2002 -
 - "Ground vehicle is a better delivery platform than a light aircraft"
 - "Given their limitations as a vehicles of destruction, security risks from GA aircraft are negligible"

But THERE STILL MIGHT BE A THREAT...

Political Reality & Moral Obligation Require us to address the threat, however small

What can we do about it? <u>Realistically</u>

What REALLY stops a terrorist?

DESTRUCTION



USAF AIR NATIONAL GUARD USCG CUSTOMS







SURFACE TO AIR DEFENSE

AIR-DEFENSE BATTERY





TO ANY REAL TERRORIST NOTHING ELSE MATTERS

To be avoided at all costs

Missionary Family Shot Down in Peru – April 2001

"A Peruvian interceptor jet opened fire on a Cessna 185 floatplane. The American missionary Veronica Bowers and her seven month old baby daughter, Charity, were killed instantly as bullets tore through the fuselage."



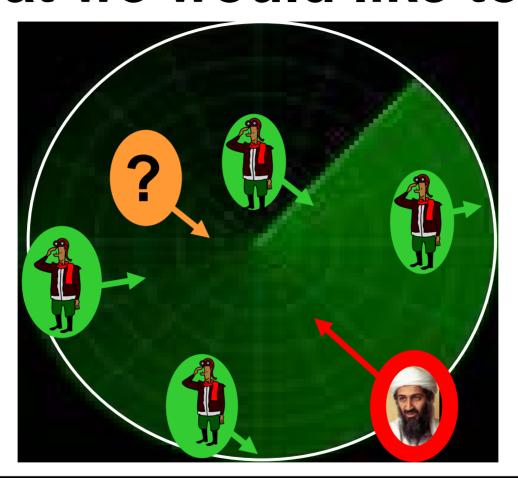


The Problem

ARMED DEFENDERS Cannot tell FRIEND from FOE



What we would like to see



A 'MAGIC RADAR'

THAT CAN TELL FRIEND from FOE

Available Solutions

- SOLUTION #1: 'Magic Radar'
 - BY SPECIAL PROCEDURES
 - Don't worry about friendlies
 - Focus on unknown radar targets
 - Shoot ONLY targets KNOWN to be a threat
 - = Flight Restricted Zone (FRZ)



- SOLUTION #2: Make everyone follow the same rules
 - Suspect everyone
 - Penalize anyone that makes a mistake
 - = Air Defense Identification Zone (ADIZ)
- SOLUTION #3: Restrict all movements
 - Suspect everyone
 - Shoot anyone that enters the area
 - = PROHIBITED AREA (P56)

NOT SUPPORTED BY ANYONE





SOLUTION #1 - 'MAGIC RADAR'

FRZ DEFENDERS CAN TELL FRIEND FROM FOE

- FRIENDs Get 'safe passage' past real defenses
 - Pre-approved for <u>security clearance</u>
 - Approved pilots <u>authenticated</u> & <u>movements of no concern</u>

ASSURES IN-COCKPIT CONTROL BY TRUSTED AGENT

FOEs – Face threat of destruction
 Without prior security clearance



- Cannot authenticate airspace clearance
- Cannot obtain 'safe passage' past defenses

DEFENDED FRZ AIRSPACE REMAINS TOO DANGEROUS

'MAGIC RADAR': FOCUS ON UNKNOWN

REAL ATTACKER

- MUST BE AIRBORNE
- MUST BE ATTACKING

REQUIRES
FLYING TOWARD
THEIR TARGET

REAL DEFENDER WATCHES AIRSPACE

- AIRBORNE MOVEMENTS
- APPROACHING AREA

WITH OR WITHOUT A TRANSPONDER



APPROACHING defended area

'MAGIC RADAR' – PINPOINTS THREATS



IDENTIFIED – Trusted Agent in control of their aircraft Don't worry about them, they are **NOT A THREAT**



UNKNOWN – Might be a threat, **MOST LIKELY JUST LOST** (>2,000+)

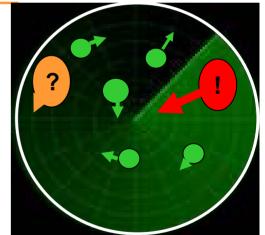






CANNOT TELL - JUST HEAD THEM OFF

Cooperation with air-traffic control Chased off by air interdiction



THREATS = Unidentified intruders Determined to Approach Despite All Challenges THEN GO TO HIGH ALERT











FLIGHT RESTRICTED ZONE (FRZ) = 'MAGIC RADAR'

- Answers the question "WHO GOES THERE?"
 - Removes Friendlies as a concern
 - Makes unknown radar targets more obvious
- FRZ Airspace Boundary
 - Warns pilots not to enter area without authorization
 - Provides safety buffer around armed defenses

WORKING SINCE FEB '02

SOLUTION #2 – SAME RULES FOR EVERYONE ADIZ DEFENDERS CANNOT TELL FRIEND FROM FOE



CURRENT ADIZ PROCEDURES

Fill out FAA paperwork correctly Keep FAA documents current File flight-plan (No authentication) Follow PUBLIC procedures

ALL ADIZ RADAR TARGETS
REMAIN 'UNKNOWN'
Identity? Intent?

FRIEND & FOE FOLLOW THE SAME PUBLIC RULES
HIGH ADIZ WORKLOAD - NO REAL SECURITY BENEFIT

'MAGIC RADAR' ENHANCES SECURITY RESTORES NEEDED ACCESS

BUT....

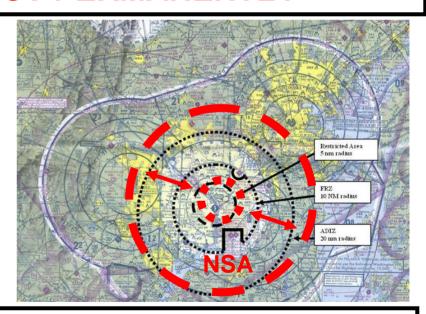
A <u>CONTINUOUS</u> 30 MILE FRZ WOULD BE ECONOMICALLY CATASTROPHIC

POP-OUT THE 'MAGIC RADAR' WHEN NEEDED

- Replace current 'ADIZ' with <u>National Security Airspace (NSA)</u>
- Make it <u>EASY TO AVOID</u> by making it a <u>CIRCLE</u>
- EXPAND to PREDICTABLE boundary during an EMERGENCY
- All Pilots welcome to apply for clearance, in case area expands
- Pilot approvals COULD BE USED for passage through other areas of concern

FRZ only expands during <u>DECLARED</u> emergencies NOT CASUALLY NOT PERMANENTLY

- WHEN NO EMERGENCY
 GOOD GUYS COME AND GO NORMALLY
- WHEN EMERGENCY DECLARED
 GOOD GUYS COME AND GO NORMALLY
 BAD GUYS DARE NOT COME OR GO



A REAL SOLUTION: EFFECTIVE & SUSTAINABLE

WHO DECIDES?

Who Decides the Emergency?

- Presidential Decision Directive 62 (PDD 62)
 - USSS was made 'Lead Agency' in 'NSSE' & 'NCA'
 - USSS knowledgeable of THREAT
 - Means for Executive Office to exercise emergency Executive Authority <u>if necessary</u>
 - Similar policy continues...

THE EXECUTIVE OFFICE DECLARES THE EMERGENCY

Who Should Lead in Determining FRIEND or FOE?

- Make CUSTOMS the 'Executive Agent' for US SECRET SERVICE CUSTOMS & BORDER PATROL (CBP)
 - Already coordinates RADAR and PILOT information
 - Has already operational assets Airborne Tracking & Interdiction
 - Has access to relevant intelligence
 - CBP KNOWS THE FRIENDLIES
 - CBP KNOWS WHEN NOT TO SHOOT
 - CBP KNOWS WHAT REALLY COUNTS
 - CBP HAS BEEN DOING IT FOR DECADES AROUND ALL US BORDERS

CUSTOMS DECIDES WHEN NOT TO SHOOT

EXPLODING THE MYTHS

- What was the basis for the 15 Mile FRZ?
 - Built on False Assumptions
 - Used to 'buy down' 25 mile 'Temporary Flight Restriction' around Washington DC (TFR)
 - Offered as a Political compromise
 - Tolerated for Reasons of Preparedness
 - Prototype for Emergency Airspace
- Where did the ADIZ come from?
 - Moment of historical hysteria
 - Nothing more than a false half-move forward
 - A move that stunned the security agencies

SECURITY AGENCIES WERE EXPECTING A POP-OUT FRZ

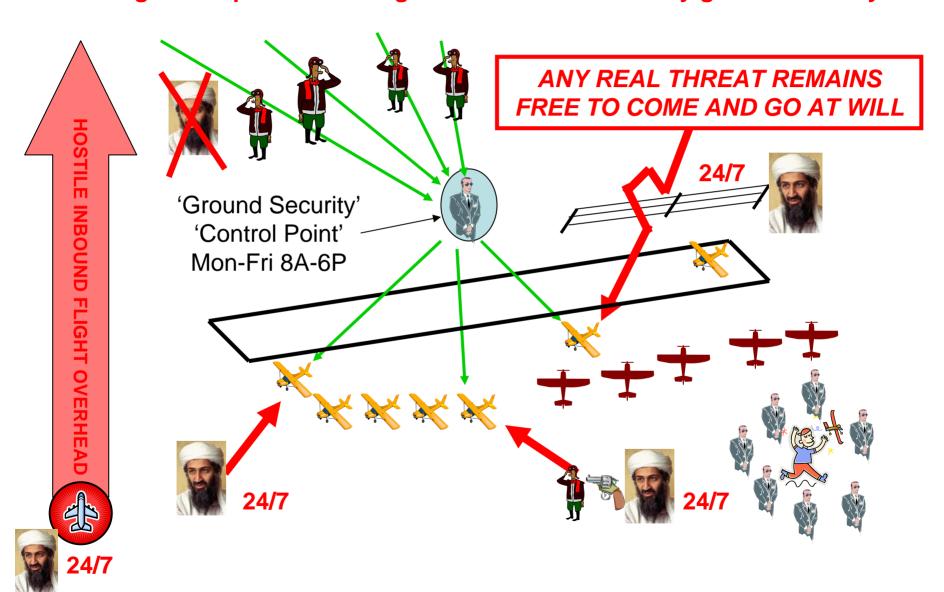
WHAT DOESN'T WORK

THE ADIZ FAILS

- ADIZ procedures
 - ONLY assures everybody follows the SAME RULES
 - CANNOT tell apart FRIEND from FOE
 - CANNOT AUTHENTICATE Pilots
 - CANNOT assure IN-COCKPIT CONTROL

'AIRPORT SECURITY' FAILS

ONLY legitimate pilots following rules are constrained by ground security



'Airport Security? Where?'

Terrorists using an aircraft can takeoff

From ANYWHERE At ANYTIME



PREDICTABLE SECURITY
AT A FEW SPECIFIC LOCATIONS
IS <u>INEFFECTIVE</u>

WHERE CAN AIR ATTACK COME FROM?



ANSWER: FROM ANYWHERE

What Should Be Done

- MOVE TO MORE EFFECTIVE AIRSPACE PROTOCOLS (POP-OUT FRZ)
- MOVE AWAY FROM INEFFECTIVE GROUND SECURITY
 - Stop doing things that don't work

KOKV

- Security at a few airports during limited hours
- Filing flight plans without authentication
 - Tagging radar targets with no objective
- Penalizing the innocent for Government induced confusion
- GIVE ONE AGENCY THE LEAD to IDENTIFY FRIEND from FOE
 - DON'T SHOOT THE INNOCENT

Government Agencies Politically <u>COMPELLED</u> To Keep Doing 'Something More'



Until Specifically Told Otherwise

'By the People'

Through Due Process

Rulemaking
Public Oversight
Public Accountability

Through Elected Officials

US Congress
Specific Legislation
Executive Office
White House Directive

AIRSPACE - WHAT CAN GO WRONG

Missionary Family Shot Down in Peru

A CIA surveillance plane alerted the Peruvian air force to the presence of the Cessna, "...Which they believed to be flying without a flight plan."

The Cessna pilot had been in contact with the tower and been given a landing slot "...How could he be in contact with the civil authorities and their military not know?"

The high-speed intercepting jet made efforts to communicate with the Cessna "...As there was no response, the interceptor opened fire"

"To shoot down a plane is to condemn its occupants to death without giving them the benefit of the doubt."

"To shoot down civilian planes is the equivalent to an extra-judicial execution"

The Peruvian air force has promised to investigate and "deeply regretted" the loss of life.

SECURITY



PRICELESS?

THANK YOU

David Wartofsky

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www.POTOMAC-AIRFIELD.com