

# SEADS CONCEPT PROPOSAL AMALGAM VIRGO 01



## SCENARIO: COUNTER TERRORISM 1-2 JUN 2001



RETURN TO FINAL REPORT

RETURN TO TAB SUMMARY

**Combined (Joint) Training for Unconventional Threat** 

#### NORAD FTX EXERCISE CHARTER

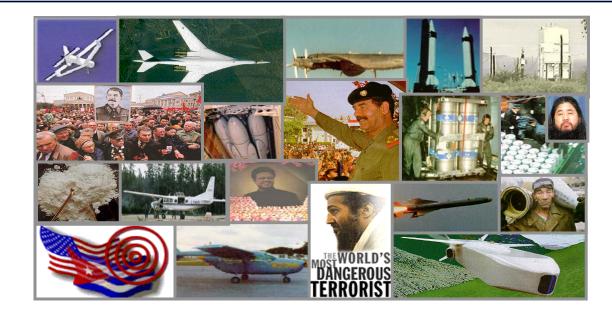
(PER NORAD INSTRUCTION 10-45)

- Mission: Train NORAD Warriors
- Focus: Air Sovereignty and Air Defense
- Goal: Enhanced Mission Readiness
- •Scenarios: Based on Perceived Threats

#### **Perceived Threats**



Washington Times May 29, 2000



#### **Cohen Says Terrorist Threat Is 'Real'**

Defense Secretary William S. Cohen yesterday warned the United States faces a "quite real" threat of a terrorist nuclear, chemical or biological weapon attack on national soil within 10 years.

Joint Vision 2020 Document: 'Prepare Now For Uncertain Future'

#### WORDS FROM THE TOP

"Missile technology is proliferating into the hands of rogue nations and terrorist organizations. As a nation we must research and develop options to combat these emerging threats."



**STATEMENT OF** 

**GENERAL RALPH E. EBERHART, USAF** 

COMMANDER IN CHIEF
NORTH AMERICAN AEROSPACE DEFENSE COMMAND
AND UNITED STATES SPACE COMMAND
BEFORE THE UNITED STATES SENATE ARMED SERVICES COMMITTEE
STRATEGIC SUBCOMMITTEE

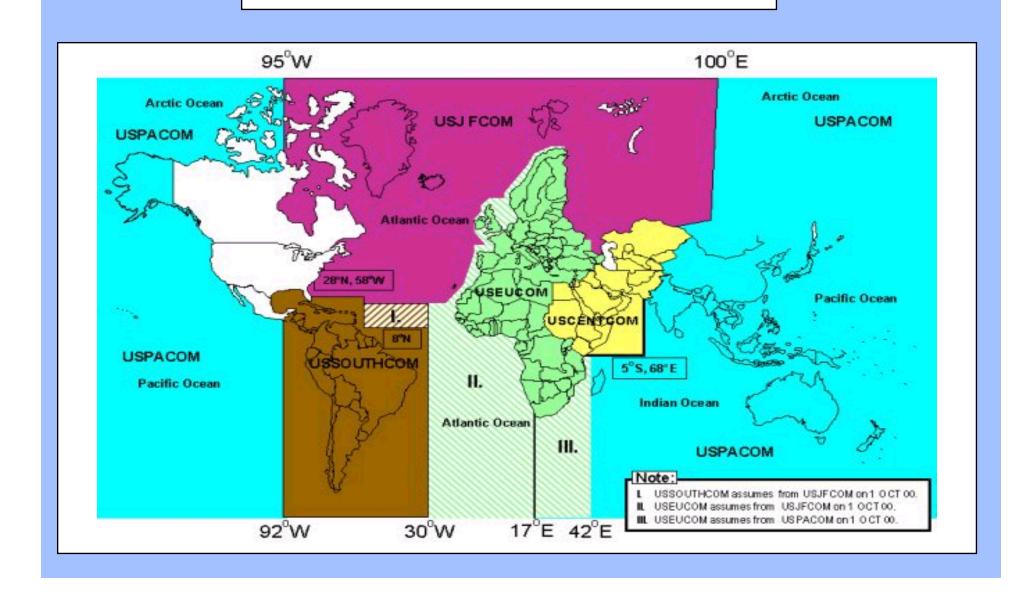
8 March 2000

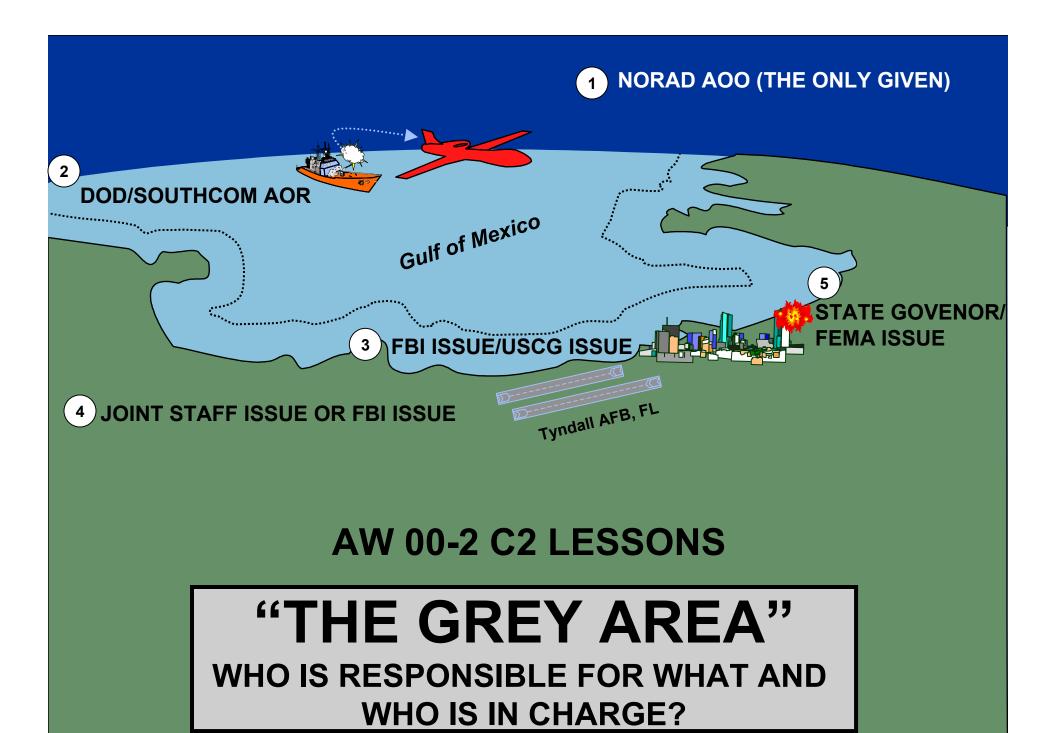
## AMALGAM VIRGO EXERCISE GOALS

- Focus on a Realistic Current Threat
- Increase the Realism and Fidelity of Our NORAD/SEADS Live-fly Exercises
- "Train Like We're Going to Fight"
- Exercise Contingency OPORD Concepts



#### WORLD AOR's 101

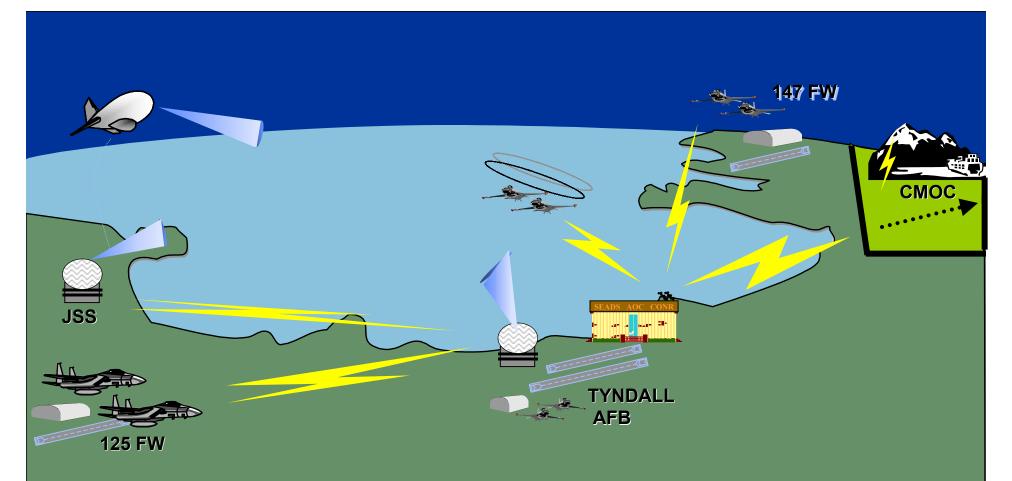






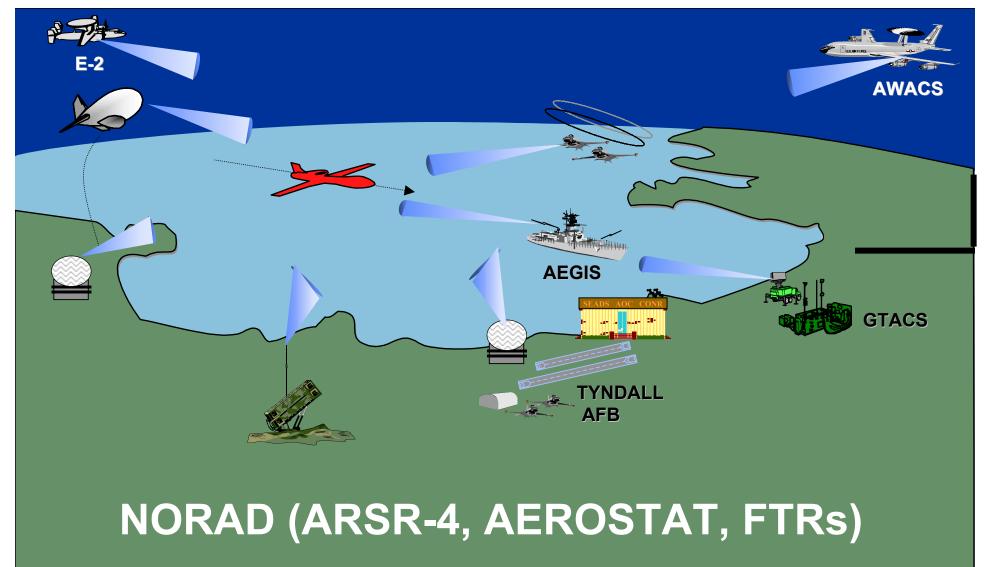
NORAD homeland defense missions: Aerospace Warning and *Aerospace Control*.

•Aerospace Control provides surveillance and control over North American airspace. This includes the capability to detect, identify, monitor and, if necessary, take appropriate action (ranging from visual identification to destruction) against manned or unmanned airbreathing vehicles approaching North America.



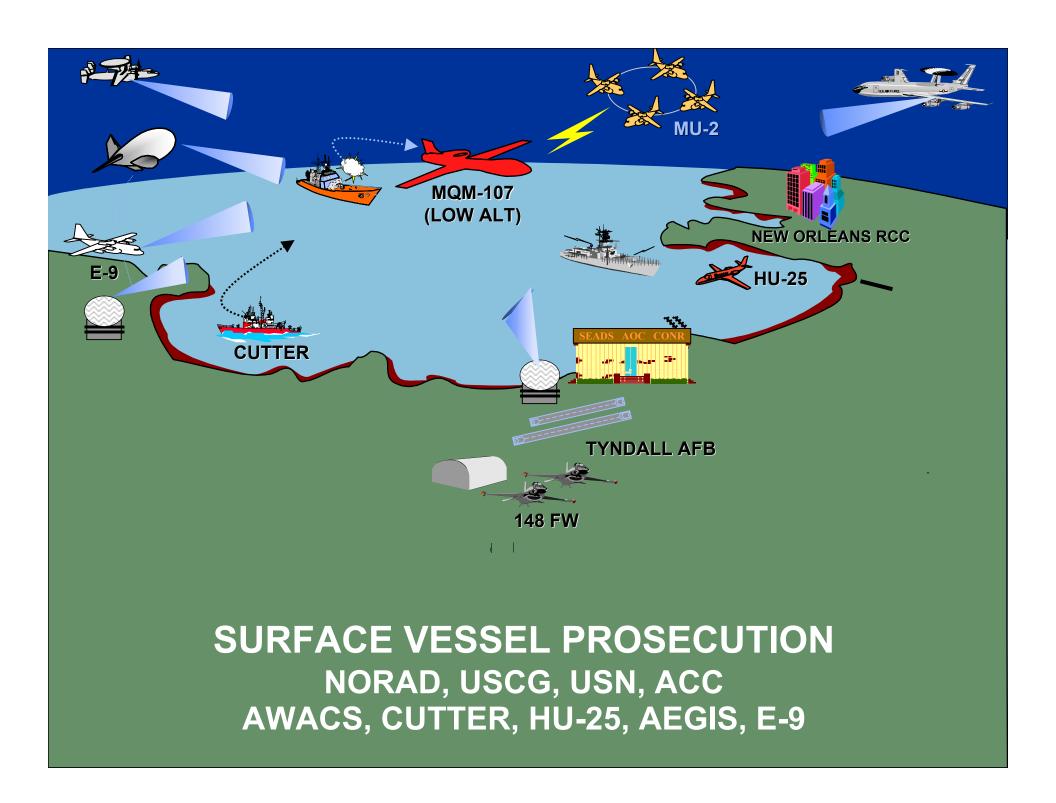
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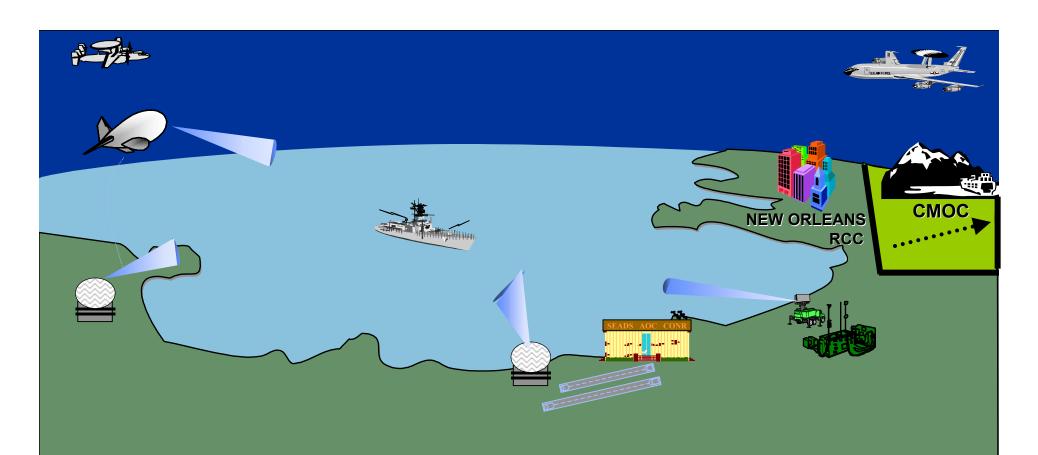
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NORAD (ARSR-4, AEROSTAT, FTRs)

Detection Augmentation
E-2, E-3, GTACS, PATRIOT, AEGIS







COMMAND AND CONTOL NODES CMOC, RAOC, SEADS, USCG RCC, E-2, GTACS, AWACS, AEGIS, FL EOC





## **AV 01 FIGHTER FLOW** 30 MAY 2001 - 4 JUN 2001



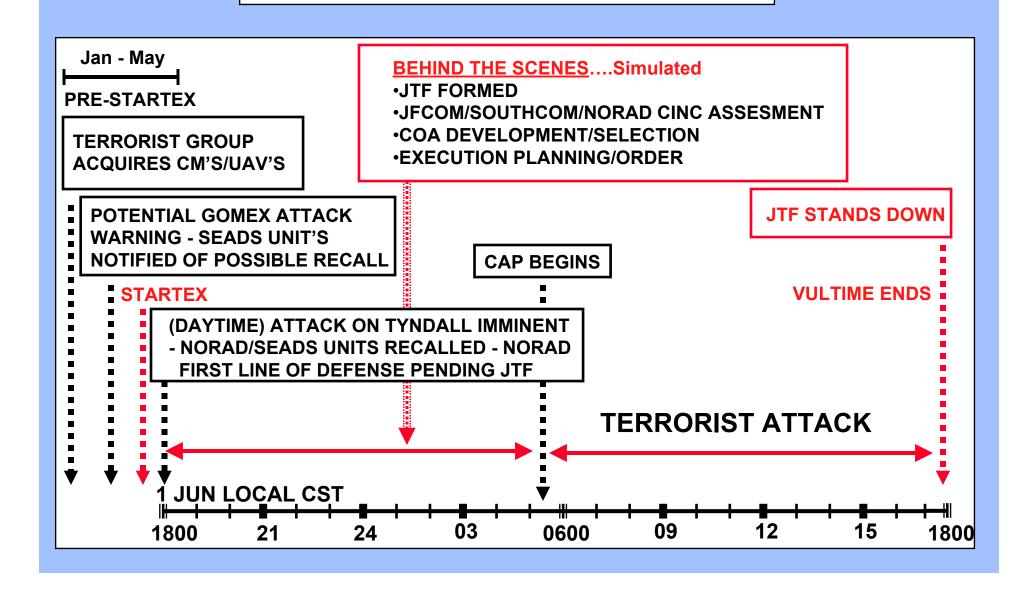




Tuesday	Wednesday		Thursday		Friday	Saturday	Sunday	Sunday		Monday	
29	29 30 CF-18s Deploy To Tyndall AFB		CF-18 (Red) vs F-15/16		1		CF-18 (R	CF-18 (Red) vs F-15/16		4 / To	
			SEADS/ADA* FED VIRGO (OFF-LINE TNG)		AMALGAM VIRGO CF-18 Blue Air		FEDVIRGO	SEADS/ADA* FEDVIRGO (OFF-LINE TNG)			

\*SEADS/DOCW/T RESPONSIBLE FOR PLANNING, ORGANIZING AND EXECUTING FEDERAL VIRGO EXERCISE (I.E. DACT WITH SEADS BATTLESTAFF)

### INTEL SCENARIO FLOW 1-2 JUN 2001



# CANADA-UNITED STATES BASIC SECURITY DOCUMENT MCC 100-35

UNCLASSIFIED 20 August 1999

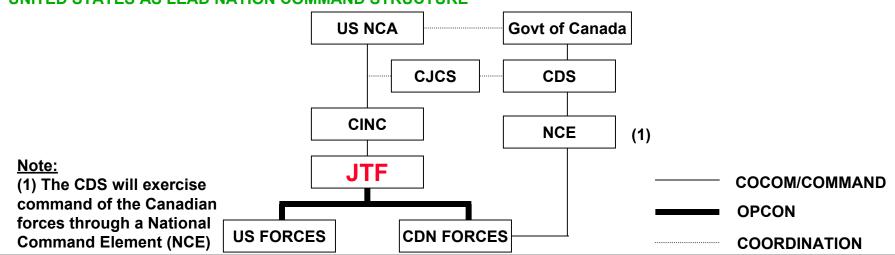
(Cover Letter - para 1) When directed by the Government of Canada and the National Command Authorities of the United States, CANUS forces will conduct combined operations to maintain the security of the CANUS region.

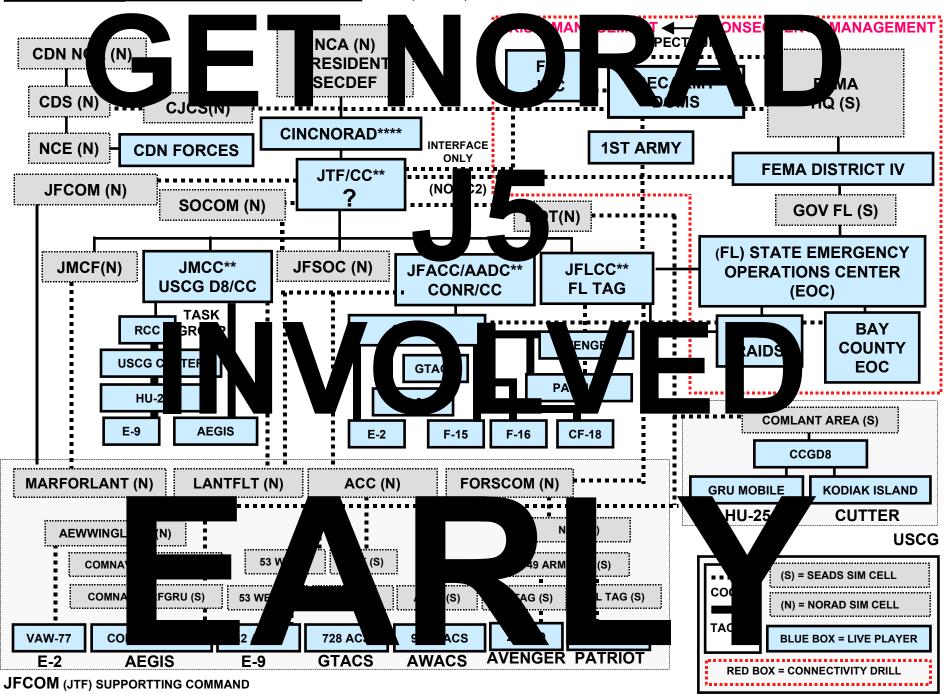
[signed]

J.M.G. BARIL General, Canadian Forces Chief of the Defence Staff [signed]

HENRY H. SHELTON General, United States Army Chairman, Joint Chiefs of Staff

APPENDIX 4 TO ANNEX J TO CANUS BASIC SECUTITY PLAN UNITED STATES AS LEAD NATION COMMAND STRUCTURE





#### **PARTICIPANTS**

#### **BLUE**

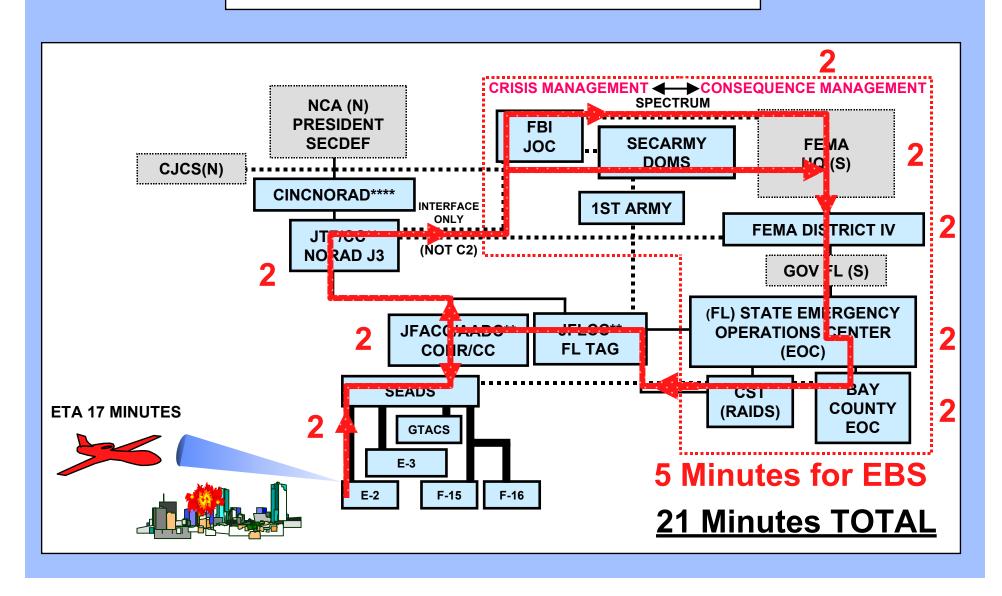
- NORAD
- CONR
- SEADS
- 970 AACS (AWACS)
- USCG (RCC/CUTTER/FALCON)
- 125 FW,147 FW, 148 FW
- 53 WEG (E-9)
- 728 ACS (GTACS)
- 2-263/5 ADA (AVENGER)
- 1-203 ADA (PATRIOT)
- DESRON6 (AEGIS)
- VAW-77 (E-2)
- CF-18



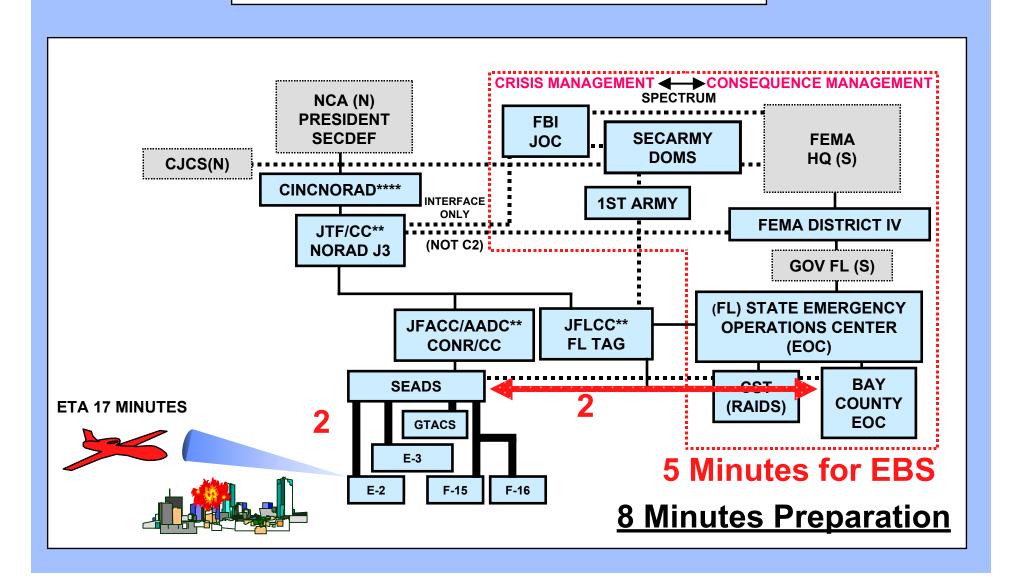
## PARTICIPANTS RED



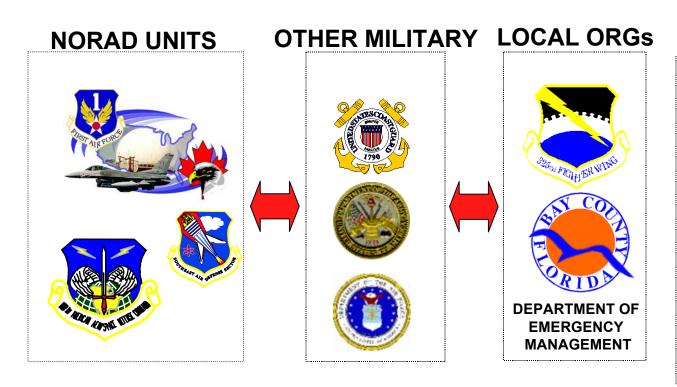
## CONSEQUENCE MGT CONNECTIVITY DRILL



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## INITIAL INVOLVEMENT WITH CONSEQUENCE MANAGEMENT

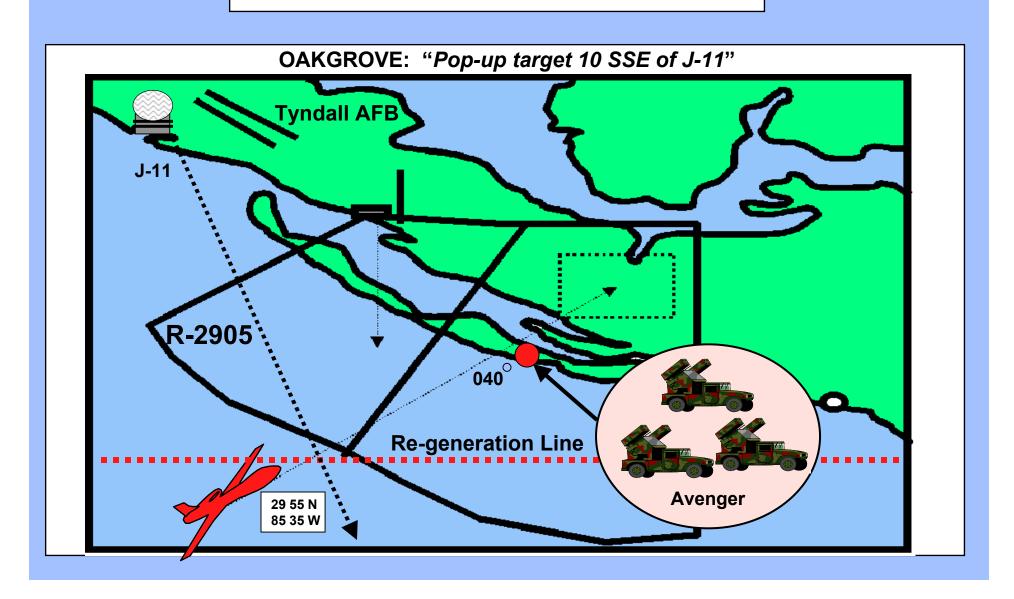


#### **AV ADDITIONS**



MILITARY AND CIVILIAN COOPERATION ESSENTIAL FOR EFFECTIVE POST TERRORIST ATTACK ACTIONS

#### (SHORAD) ADA CONOPS AMALGAM VIRGO 01



# CM Statistic and UAV Programs and Platforms SAMPLE

#### 75,000 Cruise Missiles Distributed Amongst 75 Countries

•A	V F	20	in	ter

AV Pointer Micro

•Blimp

Aerobot

Aerosonde

Altus 2

•BQM-34

Chiron

Darkstar

•Eagle Eye

Exdrone

Firebee

Freewing

•Huntair

Hunter

Javelin

•Model 324

•Model 350

•Model 410

Outrider

Pathfinder

•Ferseus B

Pioneer

Porter

Predator

Prowler

•Shadow 600

•Skyeye

Spectre II

Tern

Theseus

Truck

•MQM-107

•LEARS

Hummingbird

Dragonfly

Vindicator

**•VC-6** 

•Micro

Global Hawk

•Gnat 750

·Hawk-I 7b/f/h

Raptor

SASS Lite

•STM-5B

Seabat

Shadow 200

Onithoptor

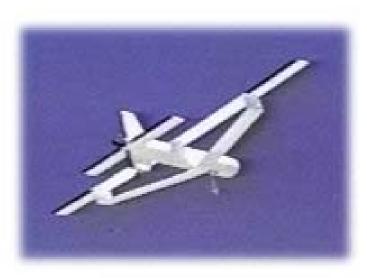
Entomoptor

Seamos

Dirigible AAV

AMGSSS

#### **LEARS UAV**



## **LEARS COST**

\$83,613.00 (Includes GPS driven air vehicle and Ground Control Station and is capable of carrying a 40lb payload)

•"The LEARS UAV was developed for sales to third world nations"

James H. Boschma

Technical Director

Bosch Aerospace, Inc

Huntsville, AL

## "A Scary Thought" 16 AUG 99





New Foundland to Scotland
26 hours
3,200 km



# Federal Flight Rules Eyed For Unmanned Aircraft

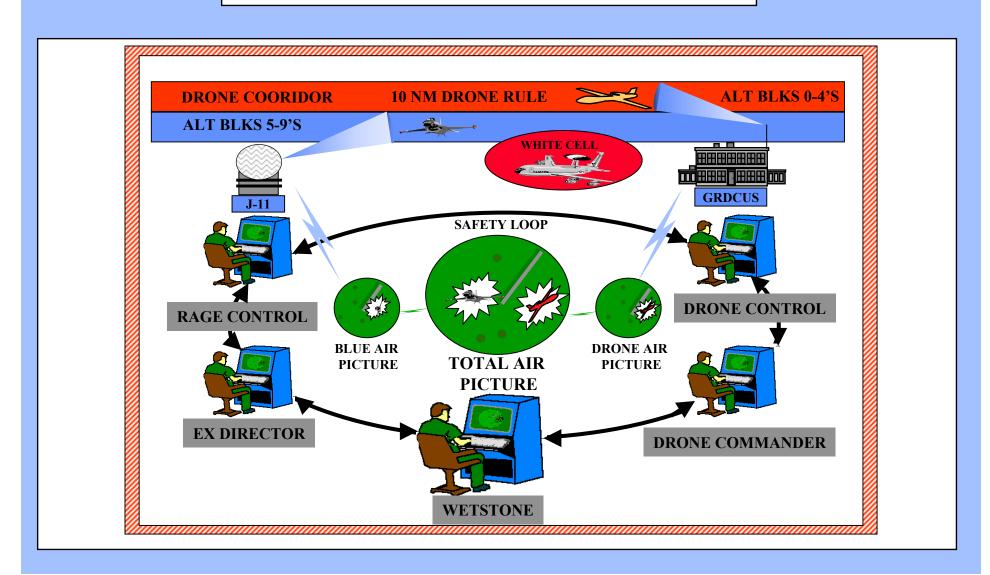
Aviation Week & Space Technology June 5, 2000

"Pentagon and FAA officials have ordered a Defense Dept. study of how UAVs should be integrated into national airspace"



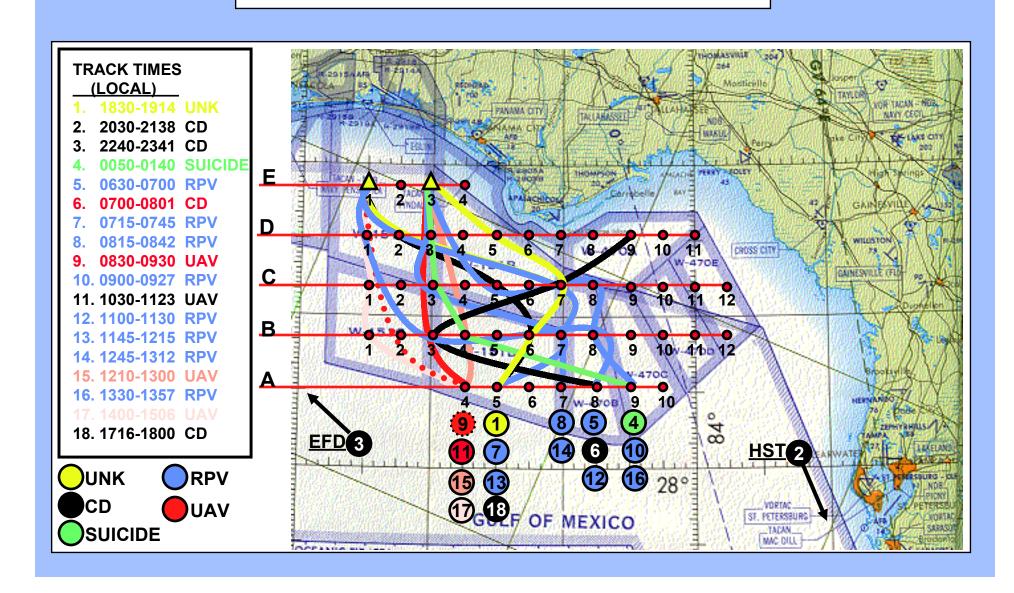
"Predictions are that the U.S. may be operating as many as 2,000 UAVs in 5-10 years. The market is ready to explode"

# DRONE SAFETY PROCECURES



#### **AW 00-2 TRACK SYNOPSIS**

All times in local CST time (+5 for zulu)



## NORAD AV PROPOSAL GUIDELINES

#### Need your proposals for a live-fly event

- Multi-region exercise preferred
- Should be short duration (1-2 days)
- Should focus on emerging threats
  - Cruise missile defense
  - Anti-airborne terrorism
  - **WMD**
- Should include outside agencies
  - FBI, RCMP, FEMA, DTRA...

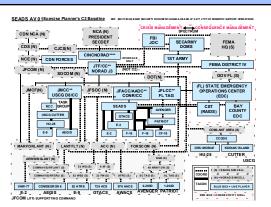
### NI 10-45 OBJECTIVES

- Exercise Integrated Tactical Warning and Attack Assessment (ITW&AA).
- Exercise command interface with higher and lateral headquarters.
- Exercise intelligence, logistics and personnel functions.
- Exercise command, control and communications systems and procedures.
- Exercise NORAD Headquarters, region and sector joint binational battle staffs.
- Exercise crisis action planning, deployment planning and CONPLAN execution.
- Exercise regeneration, NBC and battle staff support operations and test concepts.
- Exercise contingency operations (including Cruise Missile Defense).
- Exercise air sovereignty and air defense missions.
- Exercise the counterdrug mission.

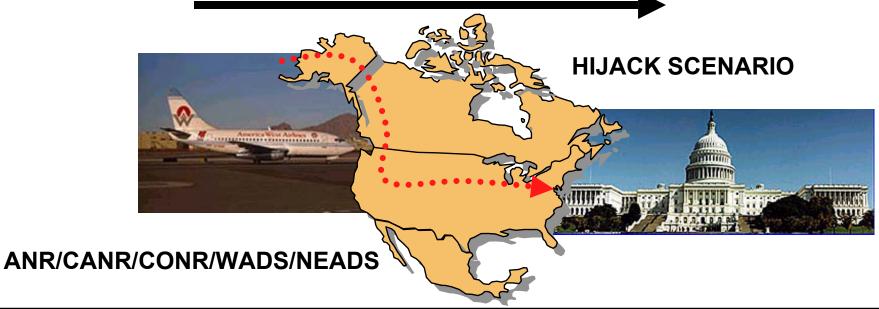
# **EVERYONE PARTICIPATES**



- CANR
- WADS
- NEADS



## WHITE FORCE AUGMENTATION



#### SUMMATION

#### **AMALGAM VIRGO 01 Will Provide:**

- Ochallenging and Realistic Training ... (PA)
- Significant break from "Cold War" Paradigm
- **6** State-of-the-art Target
- Integration of New Concepts
- 6 "Train-Like-You-Fight" Wargaming
- **6** Robust Battle Management Training
- Joint Training for Unconventional Threat

RETURN TO

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