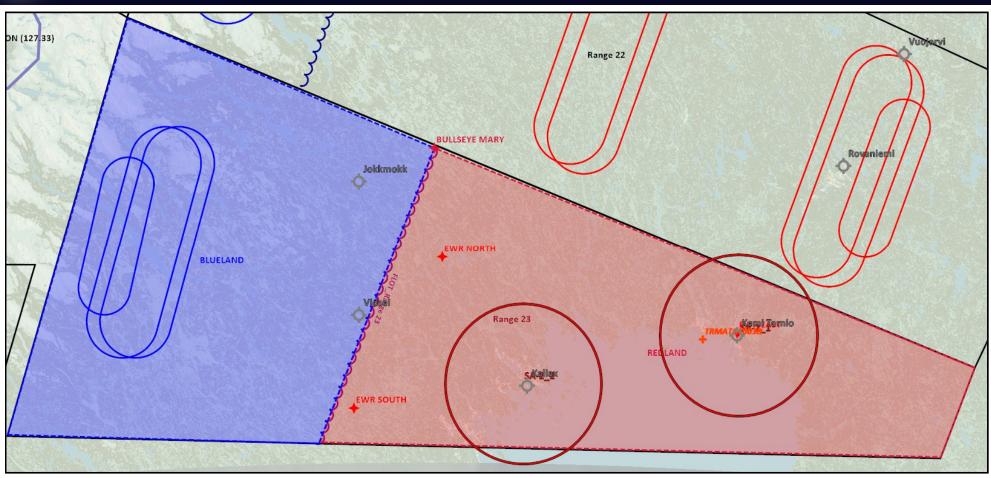


EXERCISE RED THUNDER - B Strike+SEAD Range 23

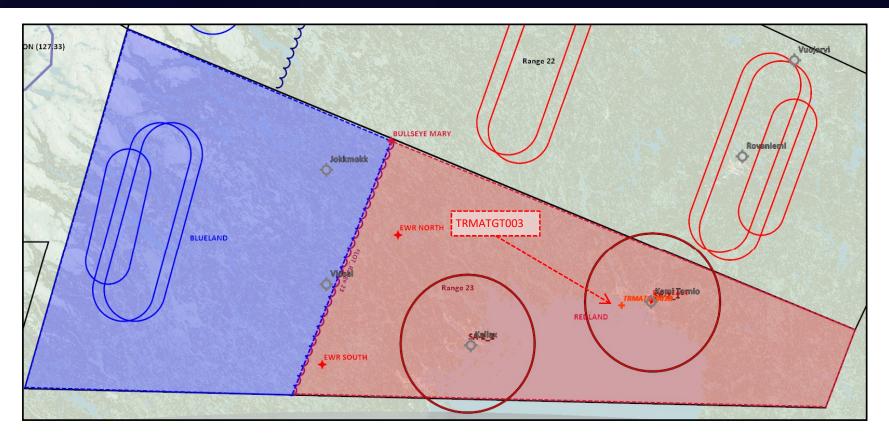


SITUATION



Scenario: REDLAND and BLUELAND at war. BLUELAND have picked up intelligence regarding a chemical weapon research facility in REDLAND.

MISSION



Strike REDLAND military research facility (TRMATGT003)

Task strike flight: Conduct strike.

Task SEAD flight: Create permissive environment for strike.



Blue Commanders intent

BLUE MISSION:

Task: Strike REDLAND military research facility

Purpose: Prevent any information from research facility to be used in the chemical weapon program

BLUE LOSSES NOT ALLOWED

RISK LEVEL: LOW

TRAINING OBJECTIVES:

- -Objective 1: Strike+SEAD coordination
- Objective 2: Communication between flights (Strike + SEAD)
- Objective 3: Mission planning and flight briefing
- Objective 4: Strike planning
- Objective 5: SEAD planning
- Objective 6: Flightlead and wingman practice



132nd Virtual Wing

Air-to-Ground Tactics restrictions based on ALR Acceptable Level of Definition A/G Tactics Risk Withdraw to preserve forces. Single-ship FLOT crossings not Accept only favorable authorized engagements. Enter WEZ of SAM/AAA only with LOW Losses only at expected training fully effective SEAD. or peacetime attrition rates. Fixed Wing - low-level tactics and reattacks not authorized Losses expected at historical Single-ship FLOT crossings not combat rates (~25%). Accept authorized neutral or disadvantageous Operations in AAA and Manpad WEZ engagements. Can withdraw to as required. MEDIUM prevent heavy losses. Operations in SAM envelopes are acceptable with partially effective SEAD. One reattack authorized to meet mission objectives. Accept major losses (~50%) to Single-ship FLOT crossings achieve objective; Preserve authorized some future capability, if able. Operations in AAA and Manpad WEZ as required. Operations in SAM envelopes are HIGH acceptable with marginally effective SEAD. Reattacks as required to meet mission objectives, withdraw if threat overwhelming. Accept any losses necessary to Single-ship FLOT crossings accomplish mission. authorized Defense against WMD Mission may only be cancelled by **EXTREME** (weapons of mass destruction). higher authority (AWACS/AOC). where consequences of failure Aircraft recovery is not a factor in is unacceptable. selection of tactics.

Blue ALR

5.2.1 SEAD Effectiveness Table for A/G ALR

Г	SEAD Effectiveness	Defined as
!	FULLY EFFECTIVE	SEAD Can deny Air Defense engagements by continuous suppression throughout the vulnerability period (VUL) using pre-emptive shots or otherwise completely denying SAM sites ability to engage.
	PARTIALLY EFFECTIVE	SEAD Cannot deny Air Defense engagements but can distract SAM sites, delaying targeting or disrupt SAM guidance with immediate reactive shots forcing SAM sites to shut down during guidance or be destroyed. On-board countermeasures and maneuvers can effectively degrade terminal guidance of SAM sites.
	MARGINALLY EFFECTIVE	SEAD Cannot deny or delay Air Defense engagements. On- board countermeasures have limited capability to degrade SAM guidance. Tactics depend primarily on overwhelming numbers to saturate defenses and maneuvers to defeat shots.



Blue ALR

Acceptable level of Risk	Definition	A/A Tactics	AMR
LOW	Accept only favorable engagements.	 Avoid merge when possible. Accept merge only with superior merge ratios. Use SKATE or SHORT SKATE. 	2:1 or greater
MEDIUM	Accept favorable or neutral engagements. Can withdraw to prevent heavy losses.	 Accept merge with equal merge ratios. Use BANZAI as required. Aircraft recovery higher priority than mission goal. 	1:1
нісн	Accept major losses (~50%) to achieve objective. Preserve some future capability if able.	Accept merge with inferior merge ratios. Use BANZAI tactics as required. Recover aircraft if able.	1:2
EXTREME	Accept any losses necessary to accomplish mission.	Accept merge with inferior merge ratios. Aircraft recovery not an issue.	Any

Note the Acceptable Merge Ratio (AMR) is the ratio of friendlies to peer adversaries within Factor Range. For general planning purposes – it is suggested to set FR to 25nm.

Example 1

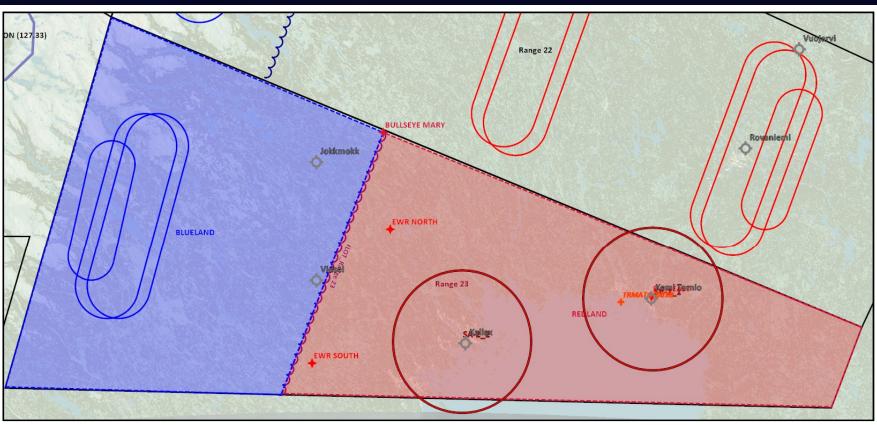
4xF18Cs vs 2 groups of 2 MIG29's that are within Factor Range of each other is 1:1 and thus requires ALR MEDIUM to MERGE.

Example 2:

4xF16s vs 4 groups of 2 MIG29's that are outside of Factor Range of each other is 1:2 and thus requires ALR HIGH to MERGE.



THREATS



SAM THREATs: SA-2s are protecting REDLAND airfields KALLAX and KEMI TORNIO. In addition SA-11 and SA-6 are mobile threats likely operating in REDLAND territory.

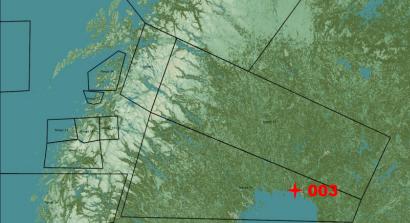
REDLAND airforce have been neutralized for the next 24 hours due to a coordinated strike at all runways in REDLAND territory



TRMATGT003 Military Research Facility



- -TRMATGT003 Military Research Facility is a covert researcg facility for REDLAND Chemical Weapon program.
- -Target 3A, 3B,3C and 3D must be attacked at the same time due to risk enemy beeing able to flee the targets and recover harddrives with information from the CW program.



DESCRIPTION OF THE DESIRED POINTS OF IMPACT WITH WPN TYPE:

(TLE CAT 1 Coordinates)

TRMATGT003A – Military Research Facility
DPI 1: N65 45.779 E024 10.347/ Elevation: 29ft
TRMATGT003B – Military Research Facility
DPI 1: N65 45.778 E024 10.899/ Elevation: 17ft
TRMATGT003C – Military Research Facility
DPI 1: N65 45.864 E024 10.484/ Elevation: 28ft
TRMATGT003D – Military Research Facility
DPI 1: N65 45.862 E024 11.035/ Elevation: 27ft

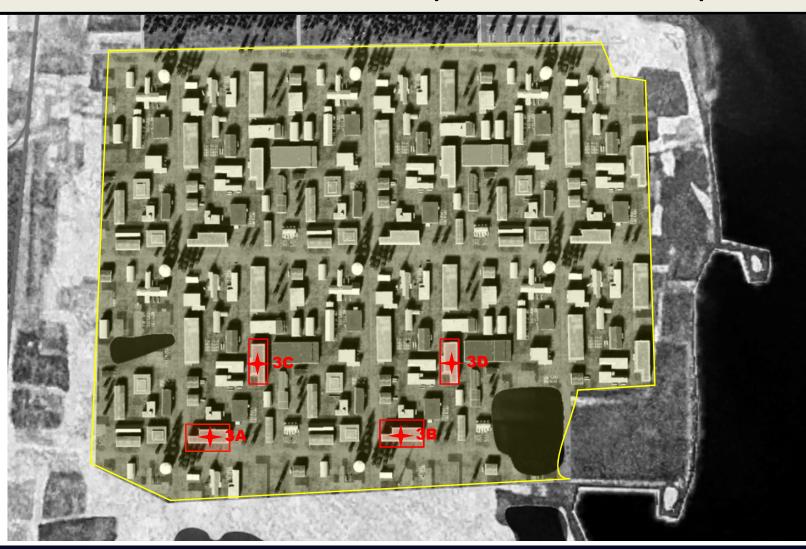
Weaponeering:

1x GBU 31(V)3/B Penetrator bomb. Function delay: 60ms

In order to completely destroy the servers stored in hardened facilities underground, the penetrator bomb is needed with a delay of 60ms.



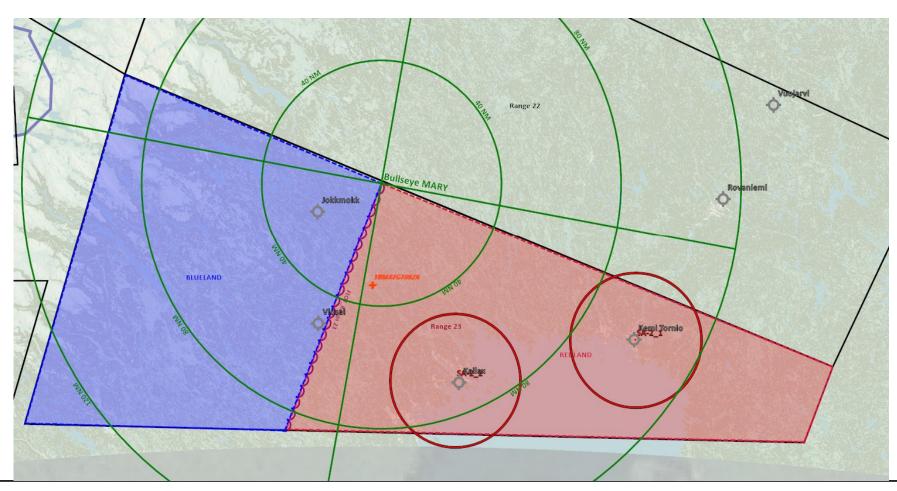
TRMATGT003 Military Research Facility







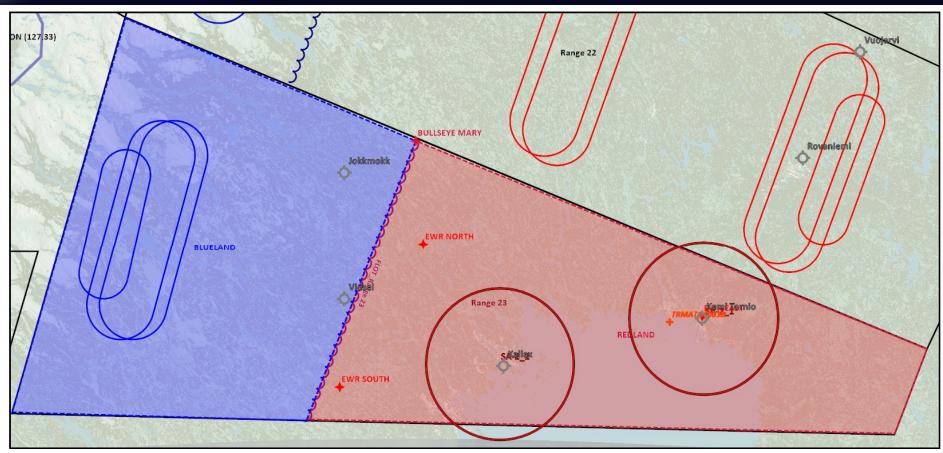
BULLSEYE



Same for both BLUE and RED



AAR Support



BLUE: AR202 (F-16) AR302 (F-14, F/A-18) Tankers need to be activated via F10 menu manually