



9th AA BN "KRAZYHORSE"

OPFOR AIR DEFENSE CAPABILITIES AND EMPLOYMENT

AGENDA

1. 9TH AIR ATTACK BATTALION:

- MISSION
- TASK ORGANIZATION
- EQUIPMENT/EMPLOYMENT

2. REGIMENTAL CAFADS

3. FUTURE DEVELOPMENTS

4. QUESTIONS

9TH AIR DEFENSE BATTALION

- MISSION:

THE 9TH AIR ATTACK BN PROVIDES FORWARD AREA AIR DEFENSE AND EARLY WARNING FOR THE 32ND GMRR AND THE 125TH GTR, DENYING ENEMY ATTACK AVIATION ASSETS THE ABILITY TO DISRUPT AND ATTRIT FRIENDLY FORCES WITH CAS, ATTACK/OBSERVATION HELICOPTERS, AND AERIAL INSERTIONS BY ENEMY SCOUTS, COLTS, ETAC TEAMS, FORWARD OBSERVERS, AND AIR ASSAULT FORCES.

9TH AIR ATTACK BATTALION



SA-18 CHARACTERISTICS

- 9 TWO-MAN TEAMS WITH 2 SA-18'S EACH, 18 TOTAL
- TRANSPORTED BY VISMODED HMMWV'S W/14.5mm m.g.
- EACH TEAM CARRIES 10 ROUNDS(5 ROUNDS PER GRIPSTOCK)

SA-18 CAPABILITIES

- REAL WORLD WEAPON:
 - FIRE AND FORGET MISSILE
 - 4500 METER M.E.R.
- NTC SA-18
 - STINGER MILES
 - 13 SECOND TARGET TRACKING TIME
 - 3500m DAY/1500m NIGHT M.E.R.
 - EXTREMELY EFFECTIVE FOR NIGHT ENGAGEMENTS

SA-18 BATTERY MISSIONS

- AIR DEFENSE AMBUSHES
- L.Z. INTERDICTION
- EARLY ENGAGEMENT OF CAS
- RECON AND SECURITY
 - TWO BRDMs AND ONE C2 ELEMENT AUTHORIZED FORWARD OF THE FEBA (NOT AUTHORIZED WITH DIV RECON)
 - COUNTER RECON/COLT/ETAC
 - PROVIDE EARLY WARNING
 - CLEAR SETS FOR FOLLOW ON AIR ATTACK SYSTEMS

AIRCRAFT SURVIVABILITY EQUIPMENT TRAINERS

- CONSISTS OF:
 - ZSU 23-4 AAA SYSTEM
 - SA-8 RADAR GUIDED MISSILE SYSTEM
 - SA-9 IR SAM SYSTEM
 - C3 (REPLICATES C2 NODES AND RADAR)

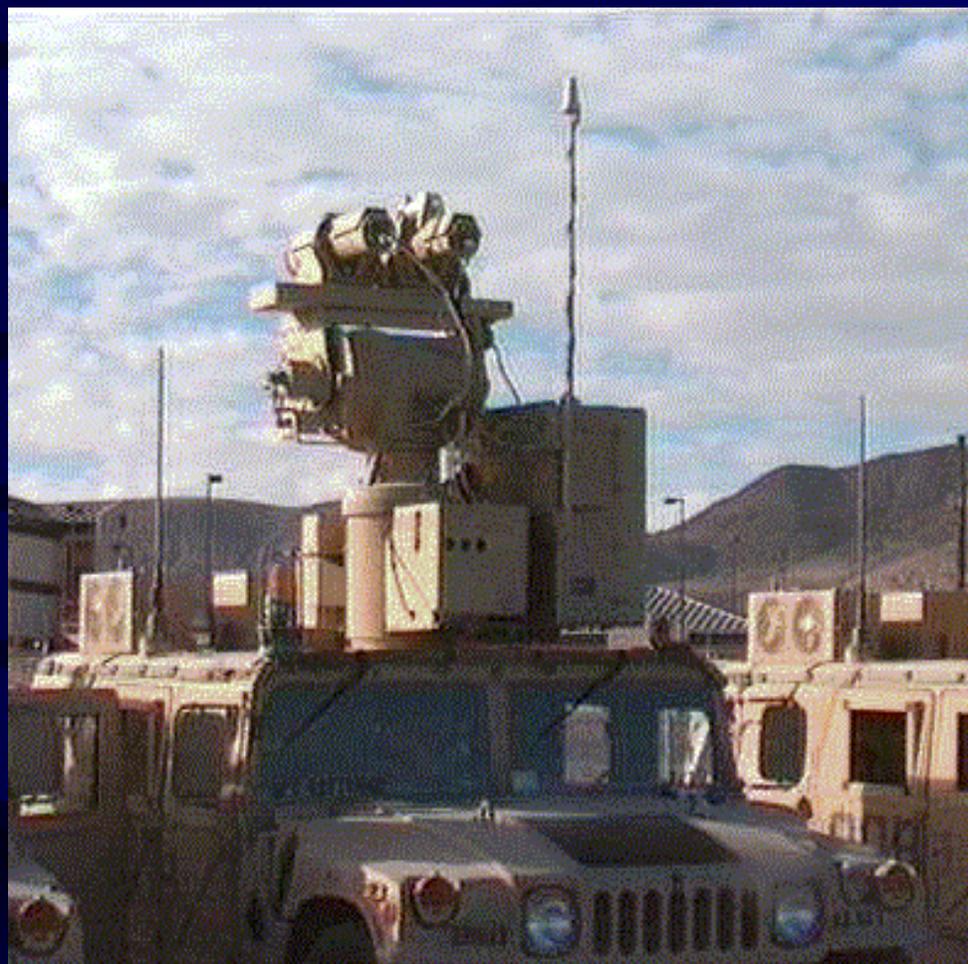
ASET IV

- HIGH TECH THREAT
- HMMWV MOUNTED (LOOKS LIKE AN AVENGER)
- VEHICLES ARE EXTREMELY TOP-HEAVY; OPERATE AT LOWER SPEEDS AND POSSESS RESTRICTED MOBILITY ON ROUGH TERRAIN
- THERMAL FLIR SYSTEMS REPLICATE RADAR AT NIGHT

ZSU23-4



ZSU23-4



ARMAMENT: ZSU 23-4 AA Gun: 23mm

RADAR: ZSU: GUN DISH

MILES RANGES: ZSU: 2500m/20km

ZSU 23-4 MODULE (ASET IV)

- M.E.R. 2500 METERS
- LIMITED SHOOT-ON-MOVE CAPABILITY
- CAN ENGAGE IN MANUAL OR AUTO TRACK MODE AFTER ALERT BY C3 MODULE
- CAPABLE OF KILLING BRADLEYS
- ECM CAN EFFECTIVELY SUPPRESS ENEMY AIR WITHOUT FIRING WEAPON SYSTEM(SCARE PILOTS AWAY)
- LIKE SA-8, ZSU HAS A SUPERIOR FLIR SYSTEM

ZSU 23-4 MODULE (ASET IV)

- **EMPLOYMENT**

- **OFFENSE**

- **MEETING BATTLE / ATTACK AGAINST DEFENDING ENEMY: PROVIDES POINT COVERAGE**
 - **NORMALLY PLACED WITHIN AGMB OR AG FSE**

- **DEFENSE**

- **NORMALLY PLACED NEAR LIGHT INFANTRY POSITIONS FOR GROUND SECURITY ALONG A FLANK TO PROVIDE ADDITIONAL FLANK COVERAGE AGAINST ATTACK HELICOPTERS AND CAS**

SA-8



SA-8



ARMAMENT: SA-8: RFSAM
RADAR: SA-8: LAND ROLL
MILES RANGES: SA-8/LAND ROLL: 12km/24km

SA-8 MODULE (ASET IV)

- CAPABILITIES:
 - RFSAM, MOST POWERFUL NTC A.D. SYSTEM
 - RADAR WILL COVER A 24 KM RADIUS
 - M.E.R. 12+ KMs
 - 5 SECOND DELAY TO SIMULATE TRACKING/MISSILE FLIGHT TIME
 - BASIC LOAD 12 MISSILES
 - HIGHLY EFFECTIVE FLIR SYSTEM

SA-8 MODULE (ASET IV)

- EMPLOYMENT

- KRASNOVIAN DIVISIONAL ASSET

- MAY PRE-POSITION FORWARD OF RL / LD

- WILL BEGIN AIR DEFENSE OPS WHEN MAIN BODY REACHES GENERAL LOCATION

- OFFENSE:

- POSITIONED TO COVER MAIN BODY OR DAG/RAG
 - PROVIDES OVERWATCH AND REAR SECURITY AT LD
 - MAY ALTERNATE BOUNDS WITH C-3 MODULE TO PROVIDE CONTINUOUS AD PICTURE

- DEFENSE:

- POSITIONED TO REAR OF MAIN BELT DEFENSE

SA-8 MODULE (ASET IV)

- SYSTEM RADAR WILL ALERT ENEMY PRIOR TO MISSILE LAUNCH
- FLIR SYSTEM REPLICATES RADAR FOR NIGHT OPS
- LOCATES AND ENGAGES BY RADAR OR VISUAL ACQUISITION
- ATWESS PROVIDES MISSILE LAUNCH SIGNATURE
- CAN ASSUME A LIMITED ROLE AS ALTERNATE C3 MODULE
- TOWS 20 kw GENERATOR TRAILER

SA-9



ARMAMENT: SA-9: IRSAM
RADAR: SA-9: None
MILES RANGES: SA-9: 6km/0

SA-9 MODULE (ASET IV)

- CAPABILITIES:
 - IR SURFACE TO AIR MISSILE
 - M.E.R. 6 KM
 - BASIC LOAD 12 MISSILES
 - 5 SECONDS TRACKING TIME
 - ATWESS PROVIDES LAUNCH SIGNATURE
 - TARGETS MUST BE VISUALLY ACQUIRED AFTER ALERT BY C3 MODULE
 - NO RADAR SIGNATURE PRIOR TO MISSILE LAUNCH

SA-9 MODULE (ASET IV)

- EMPLOYMENT:
 - OFFENSE:
 - MAY BE POSITIONED ANYWHERE THAT WILL ALLOW AIR DEFENSE COVERAGE OF MAIN BODY, RAG AND REGIMENTAL JUMP TOC
 - DEFENSE:
 - PROVIDE FLANK COVERAGE OF MAIN DEFENSIVE BELT

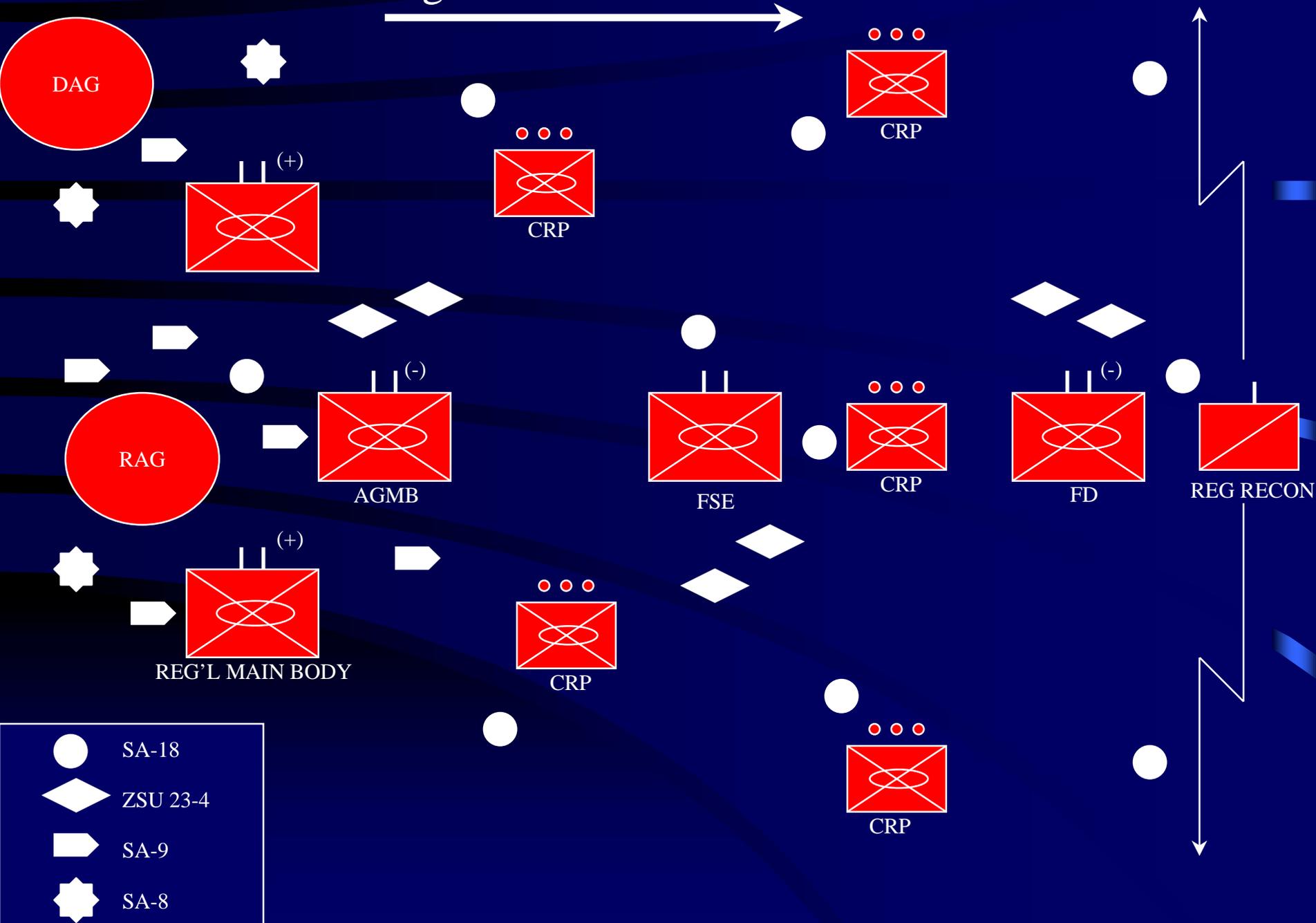
C3 MODULE (ASET IV)

- **DETECTS & TRACKS UP TO 16 TARGETS OUT TO 30 KM**
- **LOCATES OTHER ASET IV MODULES W/ GPS SYSTEM**
 - **COORDINATES FIRES OF UP TO 9 OTHER ASET IV SYSTEMS**
- **PROVIDES TARGET RANGES AND AZIMUTHS TO FIRING PLATFORMS**
- **MUST BE STATIONARY TO OPERATE**
- **HAS 9 “LIVES”**
- **MAY PRE-POSITION FORWARD OF RL / LD**
 - **WITH APPROVAL BY DIVISION**
 - **WILL BEGIN AIR DEFENSE OPS WHEN MAIN BODY REACHES ADA GENERAL LOCATION**

PLANNING CONSIDERATIONS

- AVENUES OF APPROACH
- AERIAL BP'S/LZ'S
- AIR DEFENSE DANGER AREAS
 - OPEN GROUND
 - CHOKE POINTS
 - LIKELY AIR AVENUES OF APPROACH
- COMMANDER'S PRIORITIES
- CAPABILITIES/TACTICS EMPLOYED

Regiment In The March



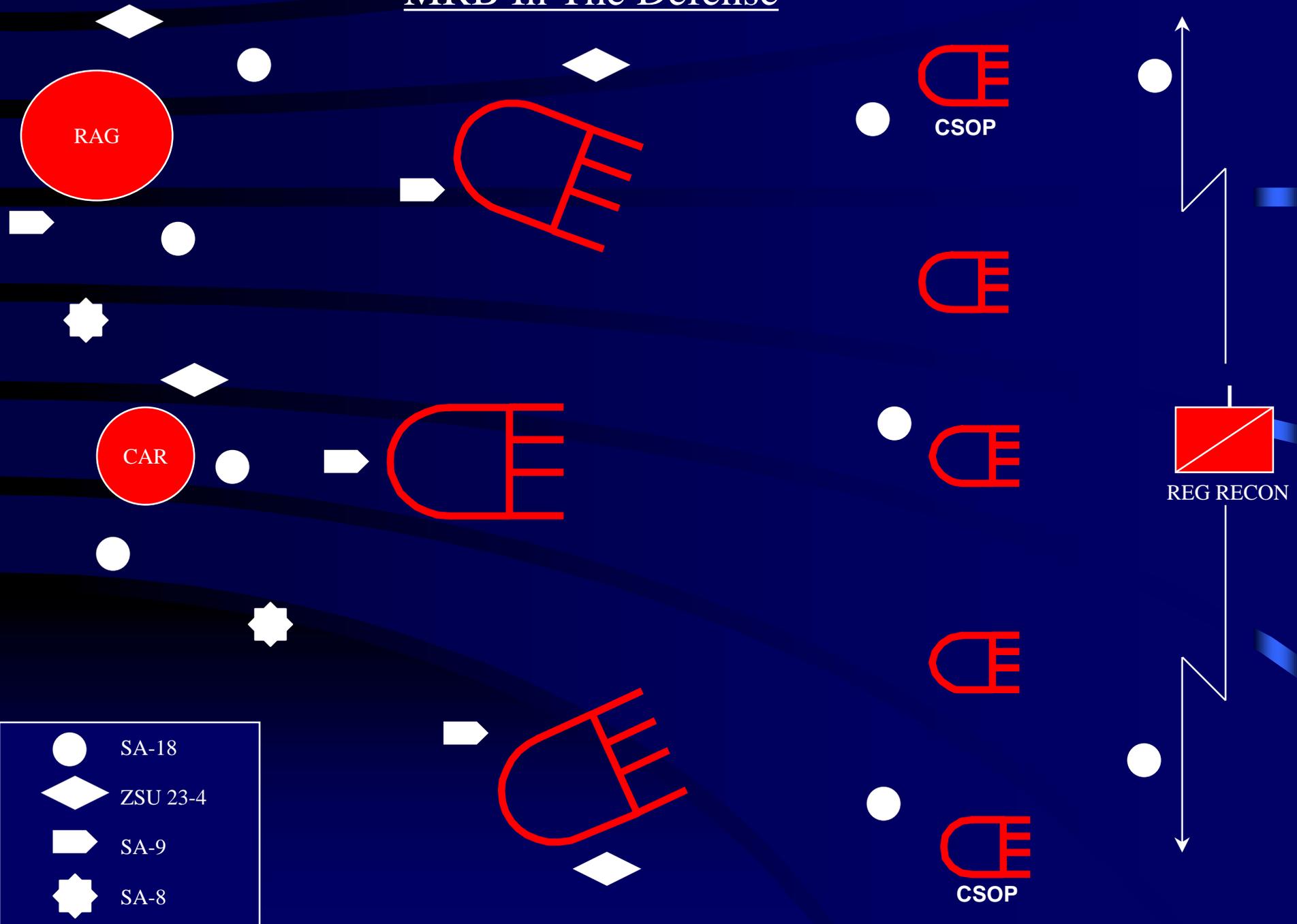
● SA-18

◇ ZSU 23-4

➤ SA-9

★ SA-8

MRB In The Defense



CAFADS

(COMBINED ARMS FOR AIR DEFENSE)

- GREEN STAR CLUSTERS
- DEFENSE AGAINST CAS
- COUNTERING ATTACK HELICOPTERS

CAFADS-DIRECT/INDIRECT

- THERMAL TANKS
- ALLIED LNO'S
 - (VIPERS/DRAGONS/SMALL ARMS)
- SCOUTS
 - TAA/FARP OVERWATCH
 - EARLY WARNING
- FIRE SUPPORT-
 - TRP'S FOR BP'S AND LZ'S

SURVIVABILITY

- PASSIVE TECHNIQUES
- MOVEMENT
- DECEPTION
- VEHICLE PLACEMENT AND SITUATIONAL AWARENESS

FUTURE DEVELOPMENTS

- SA-9'S WILL BE CONVERTED TO SA-13'S
 - DISADVANTAGE
 - SA-13'S MUST RADIATE TARGET PRIOR TO LAUNCH (SA-9'S USE VISUAL ENGAGEMENT AND HAVE NO PRIOR ELECTRONIC SIGNAL)
 - ADVANTAGE
 - LONGER RANGE AND A BETTER MISSILE TRANSLATING TO A HIGHER PROBABILITY OF KILL
- SA-8'S WILL BE CONVERTED TO SA-15'S TO GIVE A MORE MODERN THREAT
 - SA-8'S ARE AN EARLY 70'S WEAPON SYSTEM WHICH IS EASILY DEFEATABLE BY AIRCRAFT ON BOARD ECCM EQUIPMENT(JAMMING)
- ZSU 23-4'S WILL BE CONVERTED TO 2S6'S, SIGNIFICANTLY UPGRADING LETHALITY

QUESTIONS ?