



IN HARMS WAY

Gedachter Verlauf

zum Training am 18.07.2023

Thema: SAM-Sensibilisierung - part II

Schwerpunkt: HTS/HAD-Anzeigen



AIR DEFENSE VEHICLE THREAT GUIDE - OPFOR - AN/ALR-69(V), AN/ALR-56M

MISSION-ORDER

„Photograph targets at KASTELA Airport, 23 nm west of PULA City“

Pkg. 2, F-16CM-52, RECCE

TO: AVIANO 11:00Z, Exit via RIVOLTO

ARR: PESCARA, approx. 12:06Z via ILS Rwy. 22

ALT: FROSINONE, 65 nm SW

Cajun1 (RECCE): Cupra, Stingray, Corran, BadCrow

Cobra7 (SEAD): Dro16, Actros

Cobra4: n/n

Schwerpunkte sind das „Lesen“ der HTS/HAD-Anzeigen für

-SA-2

-SA-3

-SA-4

-SA-5

-SA-6

-SA-10

-SA-11

-SA-13

-SA-15

-SA-17

-ZSU-23-4

SAM-Aufklärung nördl. der AO (Einflug möglich?) und das Tanken mit TEXACO7 (KC-10) und/oder TEXACO2 (KC-135E)...

... am Ende der Kampf gegen MiG-29S...

... zumindest für unsere Fighter...

A/S Alternating A and S flashing on RWR
 HOJ Home on jam
 OB On board radar
 15/M Alternating 15 and M Flashing on RWR
 ∞ Impossible to evade/ drag missile

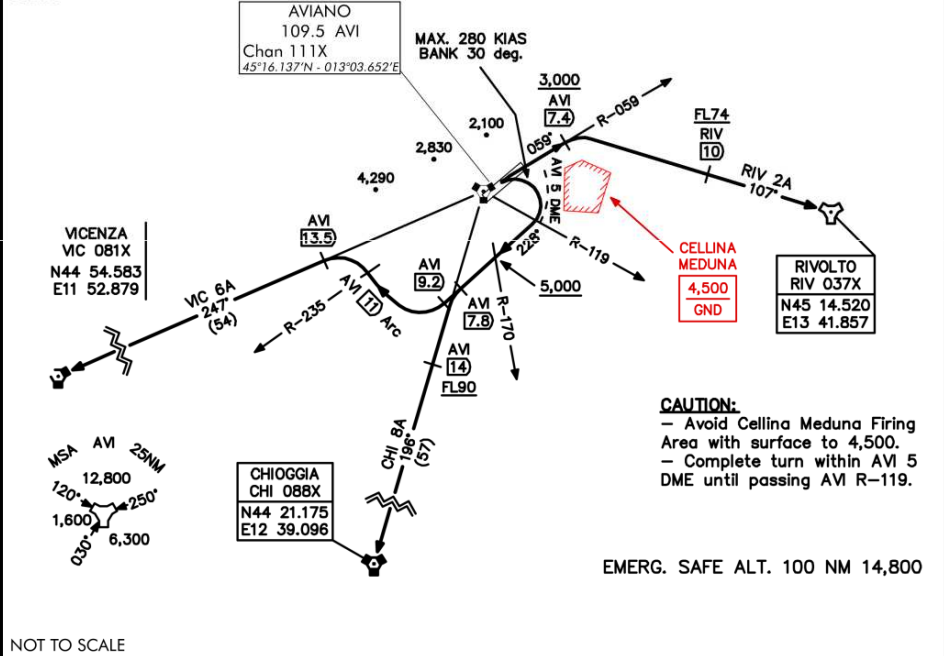
SAM	RWR		HARM		ALIC		SA/ EWR	Tracking	Min Rng/ Alt	Typical Engagement	Max Range/ Alt	ECM	CM	
	S A	F C	S A	F C	S A	F C								
SA-2	---	2	2A	2T	402	202	Spoon Rest	Fan Song E/ F	4nm/ 300ft	15nm/ 230,000ft	38nm/ 230,000ft	E12-F9nm	Med	
SA-3	F	3	F	3T	403	203	Flat Face	Low Blow	2.7nm/ 150ft	9nm/ 120,000ft	11nm/ 12,000ft	6nm	Med	
SA-4	L	4	4A	4T	404	204	Long Track	Pat Hand	4nm/ 500ft	18nm/ 80,000ft	22nm/ 80,000ft	14nm	Med	
SA-5	B 2	5 ---	5A 2	5T ---	405 ---	205 ---	Bar Lock Odd Group	Square Pair ---	7nm/ 1,000ft	63nm/ 327,000ft	190nm/ 327,000ft	26nm	Med	
SA-6	F	6	F	6T	403	206	Flat Face	Straight Flush	2nm/ 550ft	10nm/ 101,500ft	20nm/ 101,500ft	4nm HOJ	Med	
HN-5A								Rear Aspect IR	0nm/ 60ft	1.6nm/ 8,000ft	2nm/ 10,500ft	N/A	Very High	
SA-7								Rear Aspect IR	0.2nm/ 50ft	1.5nm/ 5,000ft	2nm/ 12,000ft	N/A	Very High	
SA-8	---	8	---	8T	---	608	---	OB Land Roll	0.8nm/ 80ft	4nm/ 16,000ft	8.5nm/ 50,000ft	14nm	Med	
SA-9	O	---	D	---	609	---	Dog Ear	Rear Aspect IR	0.3nm/ 50ft	2nm/ 14,500ft	3.2nm/ 14,500ft	N/A	Very High	
SA-10	10	10	10A	10T	410	210	Big Bird	Flap Lid	3nm/ 60ft	48nm/ 276,000ft	54nm/ 276,000ft	36nm HOJ	No Effect	
SA-11	D	11	11A	11T	411	211	Snow Drift	OB Fire Dome	1.6nm/ 180ft	12nm/ 90,000ft	20nm/ 90,000ft	19nm HOJ	Very Low	
SA-13	∞	O	---	D	---	609	---	Dog Ear	OB Snap Shot/ IR	0.1nm/ 30ft	2nm/ 9,000ft	5nm/ 26,800ft	4nm	Very Low
SA-14								All Aspect IR	0nm/ 50ft	1.6nm/ 10,000ft	3nm/ 12,100ft	N/A	High	
SA-15	---	15/M	---	15T	---	615	---	OB Scrum Half	0.5nm/ 35ft	6.5nm/ 20,000ft	7nm/ 42,500ft	13nm	Med	
SA-16								All Aspect IR	0.2nm/ 60ft	3nm/ 10,000ft	3.5nm/ 19,400ft	N/A	Very Low	
SA-17	D	17	17A	17T	417	217	Snow Drift	OB Chair Back	1.6nm/ 140ft	17nm/ 79,000ft	19nm/ 79,000ft	30nm HOJ	No Effect	
SA-19/ 2S6	∞	---	A	---	19T	---	---	OB Hot Shot/ IR	0nm/ 0ft	6.5nm/ 10,200ft	5.7nm/ 33,000ft	7nm HOJ	Med	

AAA	RWR		HARM		ALIC		SA/ EWR	Tracking	Min Rng/ Alt	Typical Engagement	Max Range/ Alt	Caliber	CM
	S A	F C	S A	F C	S A	F C							
KS-12		A/S	---	AAA	---	692		Fire Can/ Optical	0nm/ 2,000ft	5nm/ 28,000ft	5nm/ 28,000ft	85mm Flak	Med
KS-19		A/S	---	AAA	---	692		Fire Can/ Optical	0nm/ 2,000ft	5nm/ 33,500ft	5nm/ 33,500ft	100mm Flak	Med
S-60		A/S	---	AAA	---	692		Fire Can/ Optical	0nm/ 2,000ft	3nm/ 20,900ft	3nm/ 20,900ft	57mm Flak	Med
M-1939								Optical	0nm/ 2,000ft	1.3nm/ 8,600ft	1.3nm/ 8,600ft	37mm Flak	No Effect
M-1992		A	---	---	---	---		OB Gun Dish	0nm/ 0ft	2.5nm/ 10,000ft	2.5nm/ 14,000ft	30mm	Med
ZU-23								Optical	0nm/ 0ft	2.0nm/ 9,900ft	2.0nm/ 9,900ft	23mm	No Effect
ZPU-2								Optical	0nm/ 0ft	1.8nm/ 9,800ft	1.5nm/ 9,800ft	14.5mm	No Effect
ZSU-23-4	O	A	---	---	---	---	Dog Ear	OB Gun Dish	0nm/ 0ft	2nm/ 10,000ft	3nm/ 16,000ft	23mm	Med
ZSU-57-2								Optical	0nm/ 2,000ft	3nm/ 20,800ft	3nm/ 20,800ft	57mm Flak	No Effect

RWY 05 DEPARTURE

AVIANO (LIPA)
AVIANO, ITALY

ATIS 141.5
 BASE OPS
 XXX.XXX
 GRD CON
 376.65
 AVIANO TOWER
 284.65 142.5
 APP/DEP CON
 363.25



DEPARTURE ROUTE DESCRIPTION

CHI 8A DEPARTURE:

Climb right turn on HDG 228°. Cross AVI R-170 at 5,000 or above. At AVI DME 7.8 climb left turn to intercept AVI R-196 outbound. Cross AVI R-196 DME 14.0 at FL90 or above and continue outbound to CHI VORTAC. Thence...

RIV 2A DEPARTURE:

Climb on HDG 050° to intercept AVI R-059 outbound. Cross AVI R-059 DME 7.4 at 3,000 or above and climb right turn to intercept RIV R-287 inbound. Cross RIV R-287 DME 10.0 FL74 or above and continue inbound to RIV TACAN. Thence...

VIC 6A DEPARTURE:

Climb right turn on HDG 228°. Cross AVI R-170 at 5,000 or above. At AVI DME 9.2 turn right to join AVI DME 11.0 arc. Then turn left to intercept AVI R-247 outbound to VIC VORTAC. Thence...

RWY 05 DEPARTURE

NOT FOR REAL NAVIGATION - FALCON 4 BMS ONLY

Updated: 20JAN22

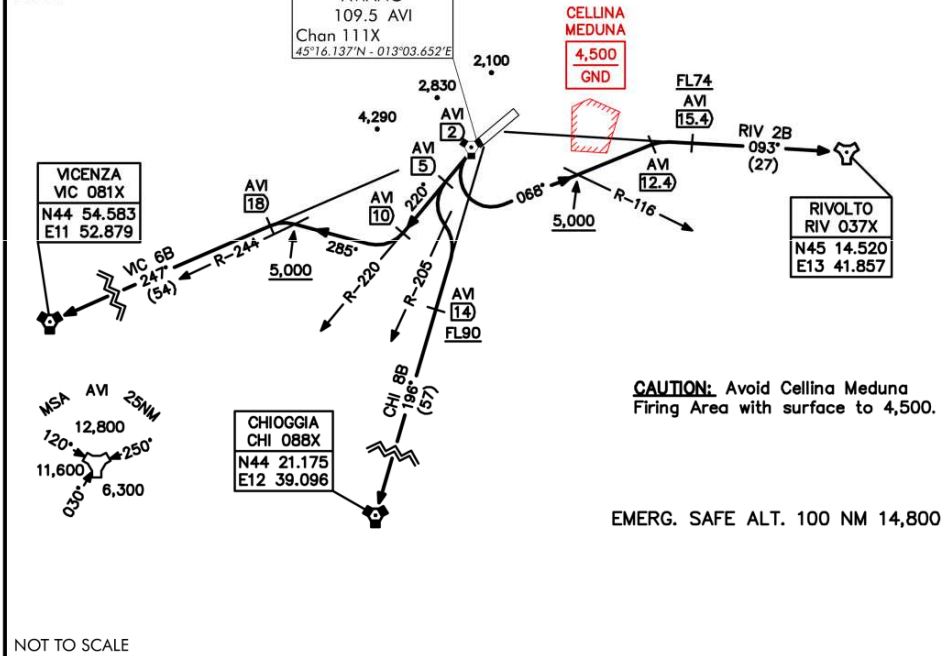
AVIANO, ITALY
AVIANO (LIPA)

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RWY 23 DEPARTURE

AVIANO (LIPA)
AVIANO, ITALY

ATIS 141.5
 BASE OPS
 XXX.XXX
 GRD CON
 376.65
 AVIANO TOWER
 284.65 142.5
 APP/DEP CON
 363.25



DEPARTURE ROUTE DESCRIPTION

CHI 8B DEPARTURE:

Climb on HDG 230° to intercept AVI R-220 outbound. At AVI R-220 DME 5.0 climb left turn to intercept AVI R-196 outbound. Cross AVI R-196 DME 14.0 at FL90 or above and continue to CHI VORTAC. Thence...

RIV 2B DEPARTURE:

Climb on HDG 230°. At AVI DME 2.0 climb left turn on HDG 068° and cross AVI R-116 at 5,000 or above. At AVI DME 12.4 climb right turn to intercept AVI R-093 outbound. Cross AVI R-093 DME 15.4 at FL74 or above and continue outbound to RIV TACAN. Thence...

VIC 6B DEPARTURE:

Climb right turn on HDG 228°. Cross AVI R-170 at 5,000 or above. At R-247 outbound to VIC VORTAC. Thence...

RWY 23 DEPARTURE

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AVIANO, ITALY
AVIANO (LIPA)

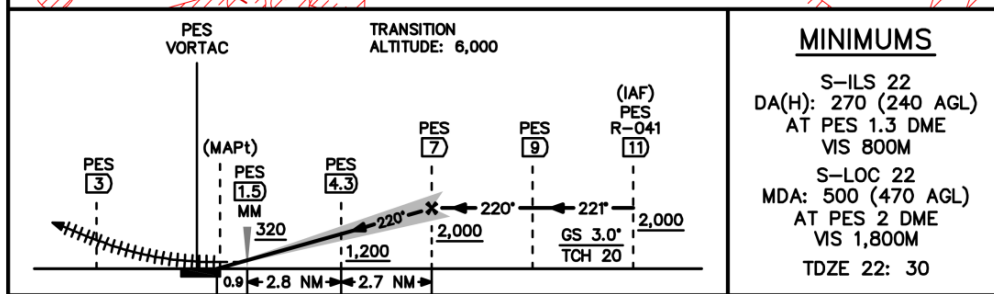
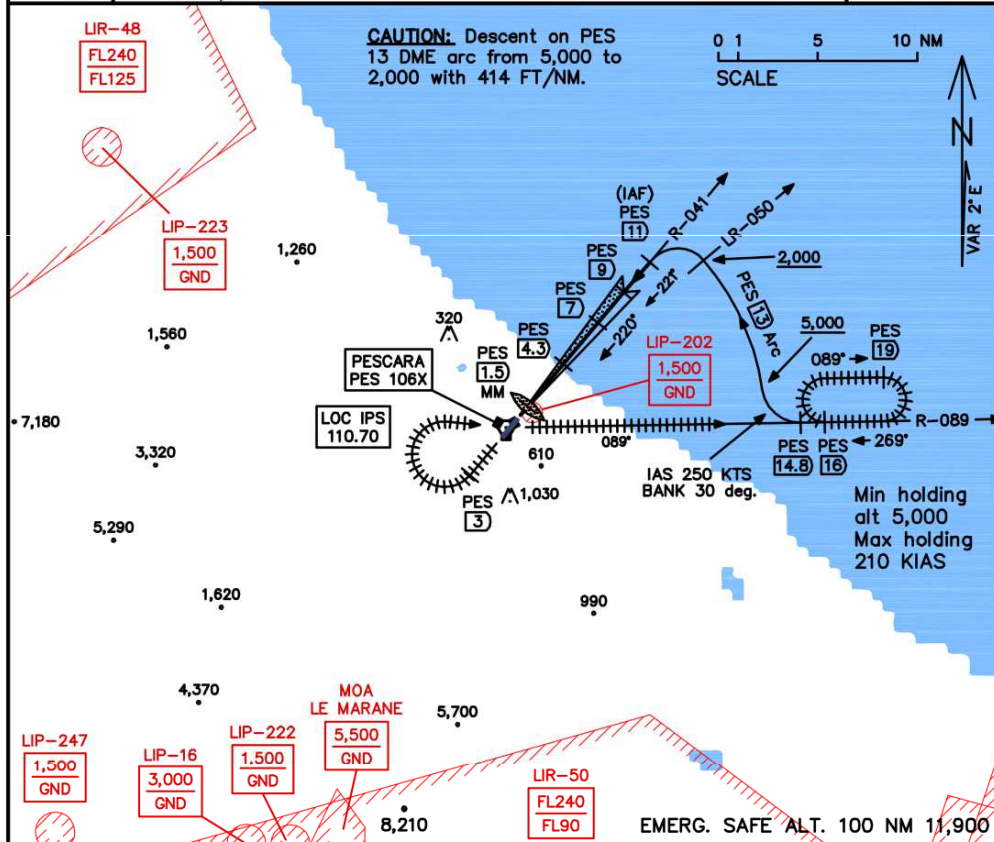
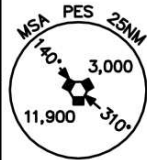
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AVIANO

ILS/DME RWY 22

PESCARA (LIBP)
PESCARA, ITALY

VORTAC PES Chan 106X	LOC IPS 110.70	ATIS -	APP CON 236.90	TOWER 257.00 118.475	GND CON 239.10	VORTAC GPS N41 57.303 E14 55.125
Final course 220		Rwy ldg 6,524		TDZE 30		
<p>MISSED APPROACH: Climb runway to 5,000 on track 220 and pass PES VORTAC. At PES 3 DME climb right turn to PES VORTAC. Then intercept and follow PES R-089 outbound to holding pattern and hold at 5,000.</p>						

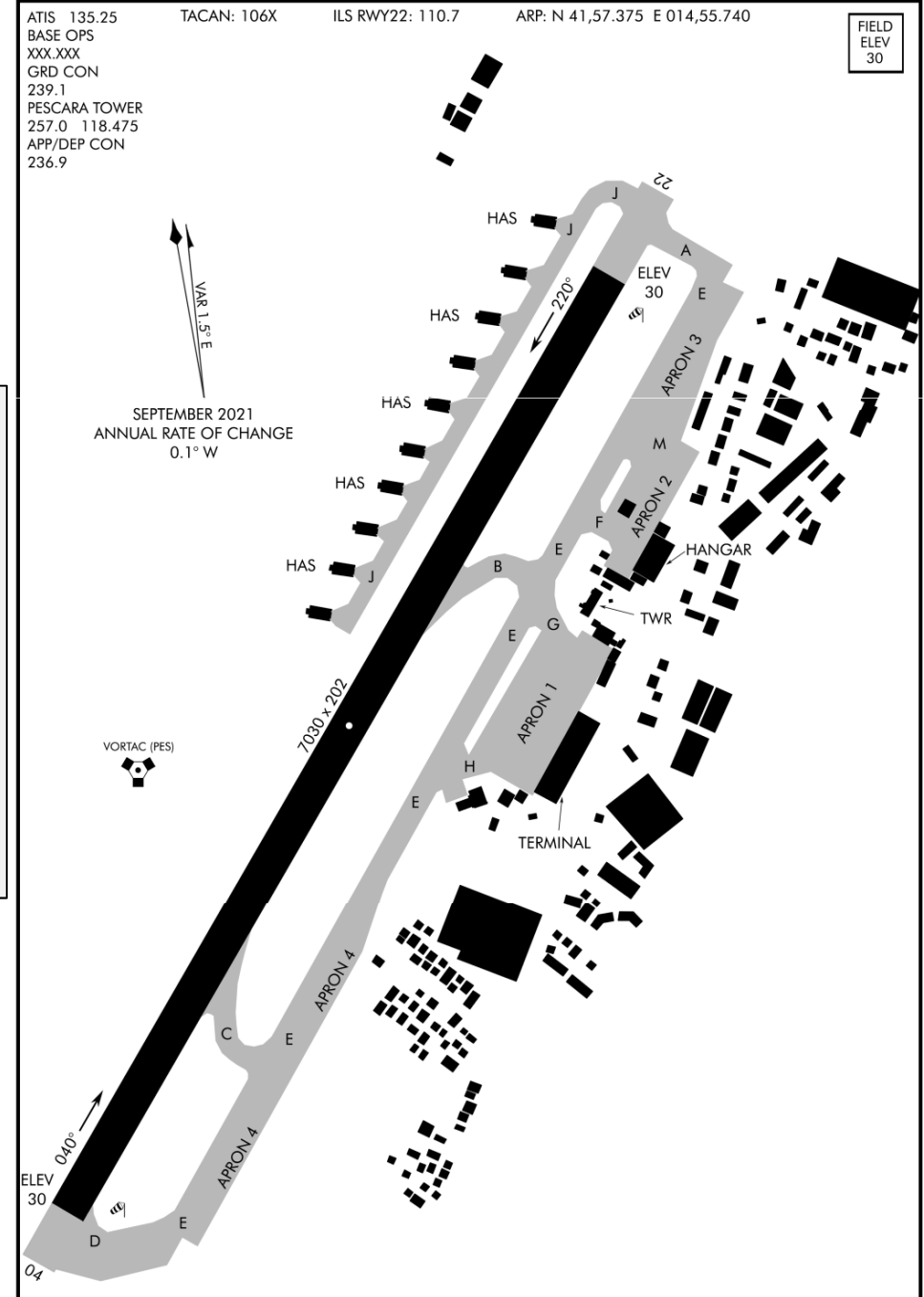


FALCON BMS 4.36
BALKANS THEATER
NOT FOR REAL NAVIGATION !

Created 6 June 2019 by Nikos Efstratiou

AIRPORT DIAGRAM

PESCARA (LIBP)
PESCARA, ITALY



AIRPORT DIAGRAM
NOT FOR REAL NAVIGATION - FALCON 4 BMS ONLY
Updated: 05NOV22

PESCARA, ITALY
PESCARA (LIBP)