



Lesson Title

TACAN Navigation – V1.1

Aim

To teach pilots the basics of how to use the HSI to follow TACAN for navigation purposes and then fly a practice mission to confirm this knowledge.

Time Required

2.5 hrs. (1hr 15 min ground school, 1hr 30 min hr flying, 15 min de-brief).

Briefing Material

<http://www.freebirdswing.org/downloads/TrainingLibrary/Lesson4v10.75.zip>

and the SID/STAR supplement:

http://www.freebirdswing.org/downloads/TrainingLibrary/Lesson_4_SID-STAR_plates_Seosan-and-Pusan.40.zip

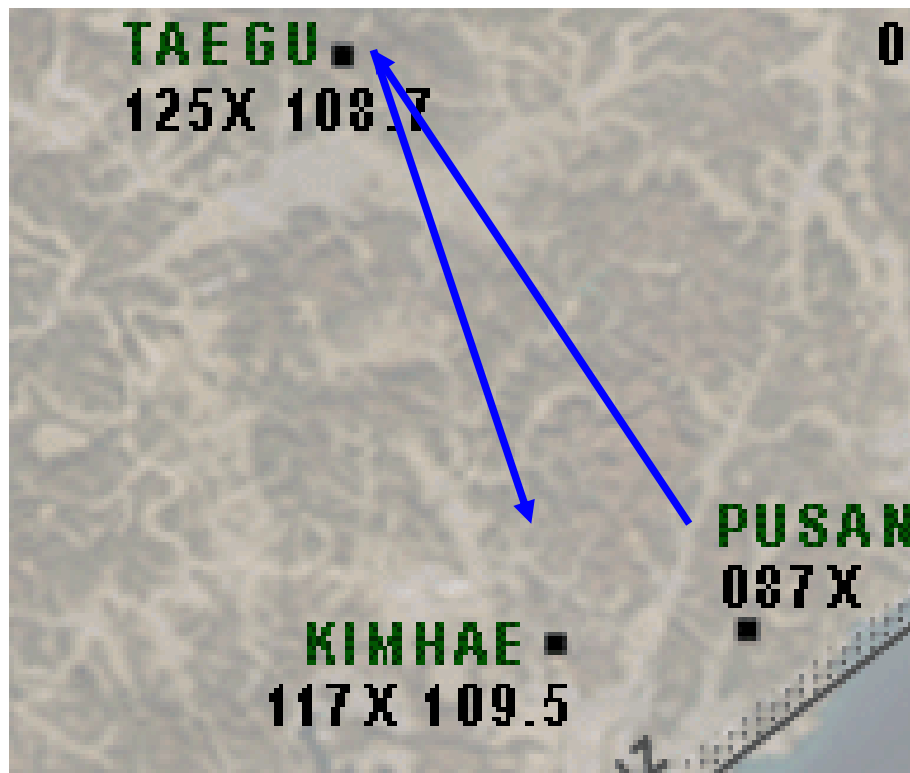
TACAN Training.tac						
By Vosene						
Falcon Version	Patch Status	Theatre of Operations (Check one)				
		Balkans		Balkans 2005		Balkans 2010
Allied Force	V1.12	Korea	X	Korea 2005		Korea 2010

Packages (AC type, package numbers)	Aircraft	Mission	Callsign	Package Number	Human/AI
	4 x F-16C-52	Training	Cowboy1	1031	Human
	4 x F-16C-52	Training	Falcon1	1329	Human
Mission Success criteria	Cowboy 1	Navigate route as briefed using TACAN and land at destination airfield in poor visibility			
	Falcon 1	Navigate route as briefed using TACAN and land at destination airfield in poor visibility			
Mission Partial Success criteria	Cowboy 1	Navigate route as briefed using TACAN			
	Falcon 1	Navigate route as briefed using TACAN			
Air to Air Weapon Loadout (Free or Fixed)	Fixed				
Air to Ground Weapon Loadout (Free or Fixed)	Fixed				
Mission Flight plan (Free or Fixed)	Fixed				

Package Information					
Takeoff time	Call sign	Task	Target	Package # ⁽¹⁾	AC # & type
09.00	Cowboy 1	Navigate Route	N/A	1031	4x F16C - 52
09.02	Falcon 1	Navigate Route	N/A	1329	4x F16C - 52
⁽¹⁾ Blue colour indicates for human use. Red colour indicates for AI only.					

Briefing Notes

1. You have been tasked to take off from Pusan airbase and take a picture of the General's brand new sports car at Tageu airfield before dropping the camera off at Kimhae airfield.
2. The weather is poor and your Nav computer is faulty but the General's car must be photographed so you have no alternative but to fly using TACAN.



3. The route you should follow is as follows:
 - a. Start the ACMI and take-off from Pusan (TACAN 087X, range 50 Nm) and proceed on the outbound 330 radial towards Taegu.
 - b. Climb to A5 and maintain 400 knots.
 - c. At 35 miles from Pusan change to the Taegu TACAN (125X, range 25nm) and follow the 330 radial inbound toward Taegu airfield.
 - d. At 10 miles from Taegu get down to low level and follow the TACAN until you are visual on the airfield.
 - e. Get out your camera and get a great shot of the General's car parked next to the control tower (you did see it didn't you?).
 - f. Once you have passed over the airfield, turn to intercept the 160 radial outbound from Taegu, climb back to A5, 400 knots.
 - g. At 26nm from Taegu change to the Kimhae TACAN (117X, range 25nm) and follow the 160 radial inbound to Kimhae.
 - h. At 10nm from Kimhae ensure you are at A5 and 250 knots.
 - i. Follow the 160 radial and managing you speed and altitude until you are visual on Runway 160 at Kimhae.
 - j. Perform a full stop landing, exit the runway to the right and park on the large pan in front of you. There will be a courier waiting to take the camera off your hands.
 - k. Review the ACMI.
4. Give yourself a pat on the back for a job well done until you realise that you forgot to take the lens cap off the camera!