



## **FSX Vietnam War project** (Base Pack Version 0.9)

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### **1 – The project**

The project was motivated by our desire to recreate for Flight Simulator X the aerial campaign that took place over the countries of South East Asia during the period 1963 – 1975. For that purpose, airbases, airports and airstrips had to be recreated for Vietnam (North and South), Thailand, Laos and Cambodia. Furthermore American airbases outside the war zone like Andersen (Guam), Clark (Philippines), Elmendorf (Alaska), Kadena (Japan), and Ching Chuan Kang (Taiwan) have also been worked on.

At this stage this version of the project is the follow-up of the Vietnam War pack 0.1 of July 2009 (by Xavier Carré) that can be found on the Net at specialized sites like Flightsim and Avsim.

It is also the relay to the magnificent job accomplished by Georges

Kwowles who, under Flight Simulator 2002, provided the community of flight simmers with a virtual reproduction of most of the military airports located in South Vietnam. We would have liked to bring him under the project. Unfortunately we have not been able to contact him.

Throughout our work we have been faced with changing pictures of airports and airstrips being modified over the whole period of the war. The same can be said about the aircrafts. What you will see in the Vietnam War pack is therefore the result of an arbitrary choice we made to represent airstrips and airports (like Ben Het) at the time when major military operations or significant ground battles took place (invasion of Cambodia by 1<sup>st</sup> Cavalry and the role of Kontum is an example).



*Column of M113 at Dak To ( M113 from AI Simms)*

The same can be said about aircrafts that will be found together with aircrafts, which were only for a short time on the aerial theatre.

AI traffic found in this pack is still rudimentary. It will evolve with time, and the development of more powerful machines. The AI traffic will be linked with major military operations.

This version is 0.9 base pack. It will be improved, others airfields will be added later.

AI packs, Operations packs and Mission packs will be added later.

Take a look at the project website for news : [FSX Vietnam War project](http://FSX.Vietnam.War.project)  
You will find some airplanes textures, downloads links to airplanes and other objects libraries, and more...

*This project is open, AI airplanes, objects, sceneries, missions authors are welcome, you can contact us at : [vietnamwar.project@free.fr](mailto:vietnamwar.project@free.fr)*

*We are looking for Navy operations , AI carrier (USS Enterprise, USS Intrepid), and Navy AI airplanes.*

*Also AI helicopters are welcome.*

## 2 – The content

**5 folders :**

**The sceneries folders :**

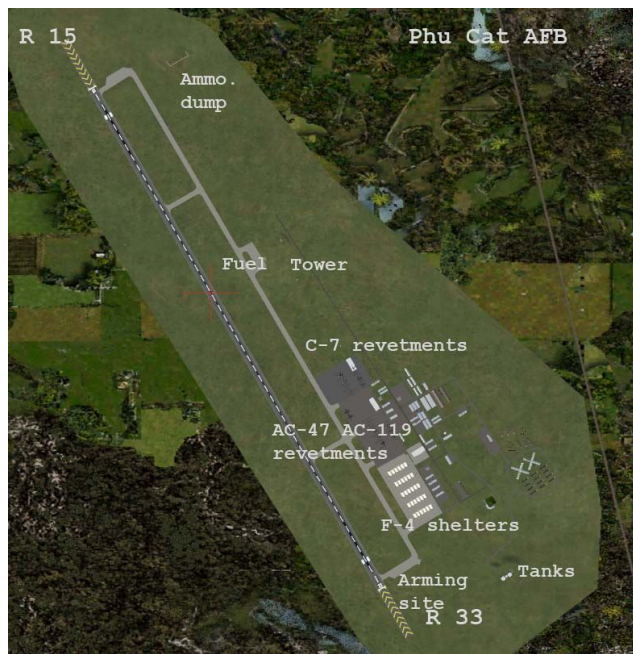
- **Vietnam War project** containing the airbases, airports and airstrips as well as the complementary sceneries ; (scenery and texture folders)
- **Vietnam War fictive LZ** (optional) ; small fictious airstrips wich purpose is the challenge of approach, and landing (scenery and texture folders)
- **Vietnam War project Under Fire** (optional): some of the project airfields in war conditions (scenery and texture folders)

**AI airplanes folder :**

- **VnW AI airplanes containing appropriate files ;** (Model and textures folders) and author readme.

**Documentation folders**

- **VnW Documentation containing the related documentation**
- **The technical leaflets of the airports and airstrips** (TAD Technical Airport Documentation) : a small pdf file (Adobe reader – freeware, needed, you can find it here : [Adobe](#) ) containing geographical and airfields data (length, comms, nav aids...) and an airfield map.
- **Flight plans VFR VnW :** These flight plans suggested to discover the various airfields of area. xxxx.PLN must be copied in file « My documents /files Flight Simulator X



### **3 - Installation**

#### **VERY IMPORTANT – BEFORE INSTALLATION:**

**If the sceneries of Vietnam War Pack 0.1 (Pleiku, Cam Ranh, Dak To et LZ Alpha July 2009) have been installed, they must be now removed from FSX.**

**1 - Start FSX. In FSX main page, go to Settings > Addon Scenery, and browse to locate to the location of the sceneries folders called: Dak To, Cam Ranh, Pleiku and LZ Alpha.**

**2 - Select one by one, then click delete a zone, and confirm.**

**3 - Re-start FSX, and check that they no longer appear in the folder C: \ Program Files \ Microsoft Games \ Microsoft Flight Simulator X \ Addon Scenery (default path for FSX in XP environment), otherwise delete .**

**For beta testers the same procedure to remove Vietnam War project test.**



**Crashed A-1 Skyraider (A-1 from Tim Piglet Conrad)**

#### **INSTALLATION:**

**To install the new pack, theses procedures must be followed :**

**1 - Extract the archive file into a temporary folder.**

**Then, launch the FSX Vietnam War project.exe file**

#### **AUTOMATIC INSTALLATION (for any default installation of FSX)**

**check FSX path during installation , you can choose another install path if necessary (if used another drive than C:)**

**OR**

**MANUAL INSTALLATION:** when selecting during installation, you can choose another folder temporarily, then

**1 - copy the Vietnam War project folders (which contain scenery and texture sub-folders) and paste in the Microsoft Flight Simulator X folder / addon scenery**

**2 - copy the contents of the folder: / simObjects / airplanes (VNW AI airplanes) and paste in Microsoft Flight Simulator X / simObjects / airplanes**

**3 - Copy the file VNW Document Library folder and paste in Microsoft Flight Simulator X folder**

**Then:**

**- Start FSX, go to Settings > Addon Scenery, and browse to the location of the Vietnam War project folders that you want to install : Vietnam War project, Vietnam War project Under Fire, Vietnam War project Fictive LZ (normally in FSX / addon scenery) , they should then appear at the top of your Addon Scenery list.**

**VERY IMPORTANT:**

**The Vietnam War Project Under Fire scenery must be above the 2 others Vietnam War project sceneries to take advantage of its additional scenes.**

**- Restart FSX, choose free flight and select airfields from Vietnam, or load a flight plan provided**

**IMPORTANT: Do not forget to disable the Vietnam War project sceneries to go fly in 2009.**

#### **4 - Airports and airstrips**

**The technical leaflets (TAD for each airfield, PDF file) may be consulted to obtain more information about airbases, airports and airstrips listed hereunder.**

**Most of the airports and airstrips are built with heli-starts so that software Helitrafic from Flight1 may be utilized to increase the realism of the project.**

**NOTA : most of the airports are not lighted. Only the airbases located in Thailand and those in Vietnam, Cambodia and Laos likely to take night traffic**

are illuminated



Ben Het airstrip and SF camp

## **Republic of South Vietnam**

### **A Shau Valley SF camp**

**VVAS**

- **N 16.08 E 107.19 Alt 591 m / 1939ft**
- **Runway 14/32 Tôle/Steel-mats. Longueur/Length: 646m/2120ft Largeur/Width: 25m/821ft**
- **Tower : 128.500**
- **Fuel : No Eclairage des pistes/ runway lights : None**

### **An Thoi**

**VVAT**

- **N 10.01 E 104.01 Alt 6 m / 20ft**
- **Runway 13/31 Steel-mats Longueur/Length: 1200m/3940ft Largeur/Width: 20m/65ft**
- **Tower : 136.075**
- **Fuel : No Runway lights : No**

### **Bac Lieu**

**VVBL**

- **N 09.18 E 105.43 Alt. 3 ft**
- **Runway 16/34 Steel mats. Longueur/Length:**



**700m/2300ft Largeur/Width: 16m/50ft**

- **Tower : 136.400**
- **Fuel : Yes Runway lights : No**

**Ban Me Thuot (Buon Me Thuot) VVBM (VVSB)**

- **N 12.39.96 E 108.06.86 Alt 1600 ft**
- **Runway 09/27 Asphalt /ASP Length 5400ft Width 90ft**
- **Tower 121.400 – 122.500**
- **Fuel : Yes Runway lights : no**
- **Nav aids : TACAN (VOR/DME) : BMT 117.950**

**Ben Het VVB1**

- **N 14.40 E 107.40 Alt 669m/2195 ft**
- **Runway 08/26 Tôle/Steel-mat Longueur/length: 600m/1970ft, Largeur/width: 20m/65ft**
- **No comms, no fuel runway lights : no**

**Bien Hoa Air Force Base VVBH**

- **N 10.58 E 106.49 Alt 1m/3ft**
- **Runway 9L/27R Concrete Longueur/Length: 3048m/10000ft Largeur/Width: 50m/165ft**
- **Runway 9R/27L Concrete Longueur/Length: 3048m/10000ft Largeur/Width: 50m/165ft**
- **Tower : 121.400 App.: 124.525 Ground : 130.425**
- **Fuel : yes runway lights : Yes**
- **Nav aids : cf : Tan Son Nhut**
- **Historical information [Bien Hoa AFB at Wikipedia](#)**

**Binh Thuy – Tra Noc (Can Tho) VVBT (VVCT)**

- **N 10.05 E 105.43 Alt. 2m / 7ft**
- **Runway 06/24 Asphalt/ASP Longueur/Length:**

**2450/8038ft Largeur/Width: 37m/121ft**

- **Tower : 133.025 Fuel : yes Runway lights : yes**
- **Nav aids : NDB : CT (CAN THO) : 420.000 VOR/DME : BHT ( BINH THUY) : 108.200**
- **Caution : pylon end runway 06**
- **Historical information [Binh Thuy AFB at Wikipedia](#)**

## **Bu Krak**

## **VVBU**

- **N 12.15 E 107.17 Alt 842m/2762ft**
- **Runway 01/09 Dirt Longueur/Length: 540m/1770ft Largeur/Width: 20m/65ft**
- **Tower : 132.500**
- **Fuel : no Runway lights : no**

## **Cam Ranh bay AFB**

## **VVCR**

- **N 11.59 E 109.13 Alt : 12 m /40ft**
- **Runway 02L/20R Concrete Longueur/Length : 3048m/10000ft Largeur/Width: 50m /164ft**
- **Runway 02R/20L Asphalt Longueur/Length : 3048m/10000ft Largeur/Width: 35m/114ft**
- **Tower : 120.725 Ground : 130.400**
- **Fuel : all. fuel truck available 14th aerial port parking Runway lights : Yes**
- **Nav aids : NDB : NDBA (Cam Ranh) : 240.000 TACAN ( VOR/DME) : VORA (Cam Ranh AFB) : 108.200 at field**
- **ILS runway : 02L/20R**
- **Historical information [Cam Ranh AFB at Wikipedia](#)**





**P-3 Orion, and RAF Avro Shackleton at Cam Ranh AFB, 1971 (P-3 by the KBT Team, Shackleton by Paul Foster)**

## **Cam Ranh army airfield**

## **VVCA**

- **N 11.54                      E 109.12                      Alt 1m/3ft**
- **Runway 36/18   Tôle /Steel-mats   Longueur/Length: 830m/2723ft   Largeur/Width: 40m/130ft**
- **Tower : 121.850**
- **Fuel : none    Runway lights : no**

## **Can Tho army airfield (Can Tho)**

## **VVCO**

- **N 10.03                      E 105.45                      Alt 2m/ 6ft**
- **Runway 08/26    Tôle/Steel-Mats   Longueur/Length: 1200m/3937ft   Largeur/Width: 30m/100ft**
- **Tower : 132.725   Fuel : yes   Runway lights : No**
- **Airports in use by Army and Air America**

## **Cao Lanh - Tan Tich Army**

## **VVTT**

- **N 10.25                      E 105.38                      Alt 7m/23ft**
- **Runway 07/25    Gravel   Longueur/Length: 470m/1542ft   Largeur/Width: 15m/50ft**
- **Tower : 124.3750   Fuel : yes   Runway lights : No**



**Chu Lai AFB, Lockheed EC-121 Warning Star ramp**

## **Chu Lai Air Force Base**

**VVCH**

- **N 15.24 E 108.42 Alt 9 m / 30ft**
- **Runway 14/32 Concrete Longueur/Length: 3050m/10000ft Largeur/Width: 46m/150ft**
- **Runway 14L/32R Asphalt Longueur/Length: 2362m/7750ft Largeur/Width: 35m/115ft**
- **Runway 03/21 Tôle/Steel-mats. Longueur/Length: 1523m/5000ft Largeur/Width: 30m/100ft**
- **Tower : 136.425 Ground : 130.475**
- **Fuel : yes Eclairage des pistes/ runway lights : Yes**
- **Nav aids : NDB : NDCL (CHU LAI) 382.00  
VOR-DME : CHULA (CHU LAI ) 108.20**
- **ILS : R32 (108.35)**

## **Con Son airfield**

**VVCS**

- **N 08.43 E 106.38 Alt 6m/20 ft**
- **Runway 11/29 Asphalt/ASP Longueur/Length: 1130m/3700ft Width: 30m/100ft**
- **Tower : 123.000**
- **Fuel : none Rrunway lights : No**
- **Nav aids : NDB : CS (CONSON) : 333.000**

## **Da Lat – Camly**

**VVCL**

- **N 11.56 E 108.24 Alt 1505m/4937 ft**
- **Runways 28R/10L Asphalt /ASP Longueur/Length: 1390m/4560ft Largeur/Width: 28m/91ft**
- **28L/10R Asphalt/ASP Longueur/Length:**

**1390m/4560ft largeur/Width: 40m/131ft**

- **Tower : Dalat 118.400**
- **Fuel: Yes              Runway lights : Yes**
- **Nav aids : NDB : CL (CAMLY) : 350.000 at airfield**
- 

## **Dalat - Lienkhong**

**VVDL**

- **N 11.45    E 108.22    Alt 961 m / 3153ft**
- **Runway 09/27    Asphalt    Longueur/Length: 1500m/4921ft    Largeur/Width: 37m/121ft**
- **Tower : 118.400**
- **Fuel : yes    Eclairage des pistes/ runway lights : None**
- **Nav aids : NDB : HYD (DALAT) 312.00**

## **Da Nang Air Force Base**

**VVDN**

- **N 16.02    E 108.12    Alt 32ft**
- **Runway 17L/35R    Asphalt    Longueur/Length: 3061m/10043ft    Largeur/Width: 45m/147ft**
- **Runway 17R/35L    Asphalt    Longueur/Length: 3061m/10043ft    Largeur/Width: 45m/147ft**
- **Tower : 125.000 App.: 119.500, 125.300 Ground : 121.600, 121.900**
- **Fuel : yes    Runway lights : Yes              ILS : 35R**
- **Nav aids : NDB : D (DA NANG) 243.00**
- **VOR-DME : DAN (DANANG) 114.400**
- **Historical information [Da Nang AFB at Wikipedia](#)**

## **Dak Pek Special Forces camp**

**VVKK**

- **N 15.04                      E 107.44                      Alt 693m/2273 ft**
- **Runway 02/20    Clay    Longueur/Length: 600m/1970ft    Largeur/Width: 20m/65ft**
- **Comms. : none**
- **Fuel : none    Runway lights : No**

## **Dak To 2**

## **VVDT**

- **N 14.39                      E 107.46      Alt 595m/1952ft**
- **Runway 10/28   Asphalt   Longueur/Length: 1280/4200ft  
Width: 30m/98ft**
- **Tower : 118.925**
- **Fuel : yes                      Runway lights : No**
- **Nav aids : NDB : DT (DAK TO) : 198.000 at field**
- **This airport replaces the old Dak To airfield considered  
as badly located and too short.**

## **Dong Ba Thin (Cam Ranh bay)**

## **VVD1**

- **N 12.01                      E 109.11                      Alt 1 m/ 3ft**
- **Runway 14/32   Asphalte/ASP   Longueur/Length:  
750m/2460ft   Largeur/Width: 20 m/65ft**
- **Tower : 128.800**
- **Fuel : yes   Eclairage des pistes/ runway lights : No**

## **Dong Ha**

## **VVDH**

- **N 16.48      E 107.06      Alt 2 m / 6ft**
- **Runway 07/25   Tôle/Steel-mats.   Longueur/Length:  
1150m/3773ft   Largeur/Width: 25m/82ft**
- **Tower : 119.375**
- **Fuel : Yes   Eclairage des pistes/ runway lights : No**

## **Duong Dong (Phu Quoc)**

## **VVPQ**

- **N 10.13      E 103.57      Alt 7 m / 23ft**
- **Runway 08/26   Asphalt   Longueur/Length:  
1100m/3600ft   Largeur/Width: 30m/100ft**
- **Tower : 118.100 118.600**
- **Fuel : No   Eclairage des pistes/ runway lights : No**
- **Nav aids.: NDB : PQ (PHUQUOC) : 278.00**

## **Gia Nghia**

## **VVGN**

- **N 12.01                      E 107.41                      Alt 622m/2040ft**
- **Runway 18/36   Terre/Dirt   Length: 650m/2132ft**

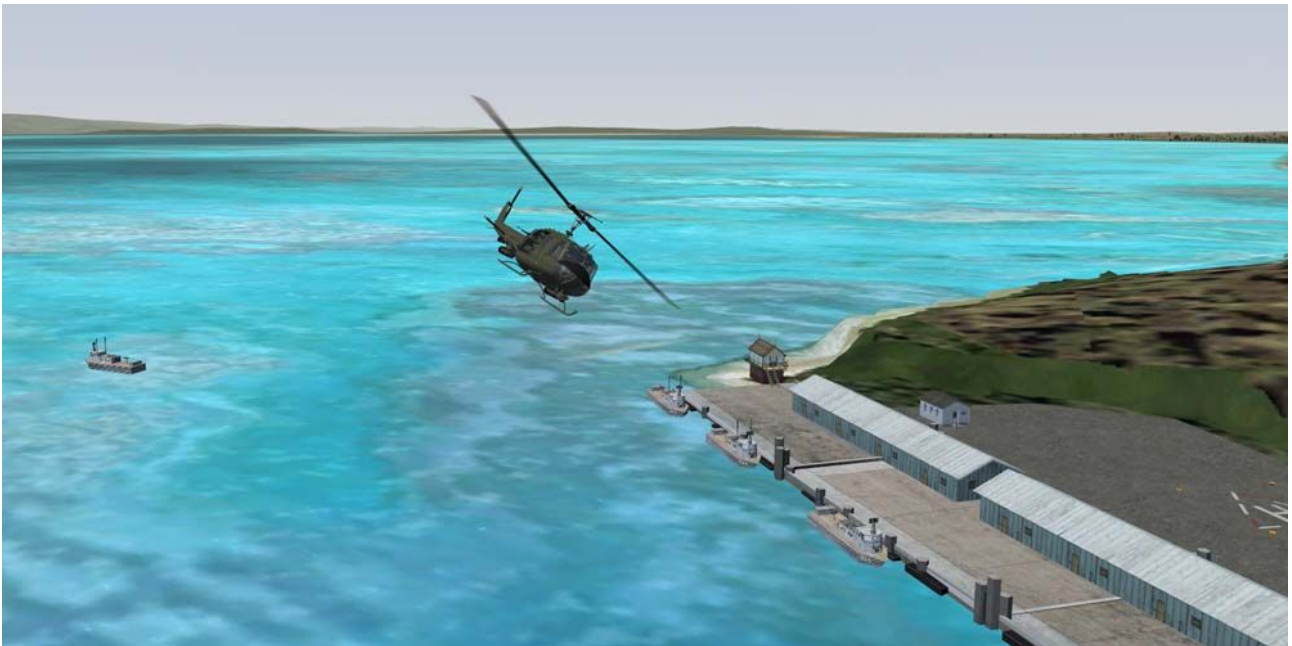
**Width: 25m/82ft**

- **Tower : 126.750 Fuel : yes**

## **Ha Tien**

## **VVHT**

- **N 10.24                      E 104.27                      Alt 1 m / 3ft**
- **Runway 07/25    Terre/Dirt    Longueur/Length:  
650m/2132ft    Largeur/Width: 18m/60ft**
- **No comms.**
- **Fuel : No Runway lights : No**



**Ha Tien harbour helipad**

## **Ha Tien South**

## **VVHA**

- **N 10.21                      E 104.29                      Alt. 6m/20 ft**
- **Runway 06/24    Oil treated    Longueur/Length:  
460m/1500ft    Largeur/Width: 12m/40ft**
- **Tower : No comms.**
- **Fuel : None Runway lights : None**

## **Hué Citadel**

## **VVHU**

- **N 16.28                      E 107.34                      Alt. 2m/6 ft**
- **Runway 12/30    Gravel    Longueur/Length:  
800m/2624ft    Largeur/Width: 18m/60ft**

- Tower : No comms.
- Fuel : None Runway lights : None
- Located in the citadel, considered as very dangerous.

## Kham Duc

## VVKD

- N 15.26 E 107.47 Alt 369m/1210ft
- Runway 04/22 Asphalt/ASP Longueur/Length: 1600m/5250ft Largeur/Width: 40m/131ft
- Tower : 129.775
- Fuel : yes Runway lights : No
- Caution : airport may be under fire
- About battle of Kham Duc and heroic intervention of C-123 pilots : [Kham Duc at Wikipedia](#)

## Khe Sanh USMC combat base

## VVKS

- N 16.39 E 106.44 Alt 478 m / 1569ft
- Runway 10/28 Tôle/Steel-mats. Longueur/Length: 1100m/3610ft Largeur/Width: 26m/85ft
- Tower : 131.750
- Fuel : no Eclairage des pistes/ runway lights : no
- Caution ; High risk airstrips, under fire
- About battle of Khe Sanh : [Battle of Khe Sanh at Wikipedia](#)

## Kontum

## VVKT

- N 14.21 E 108.01 Alt 542m/1779ft
- Runway 09/27 Asphalt/ASP Longueur/Length: 1200m/3937ft Largeur/Width: 30m/100ft
- Tower : 134.225
- Fuel : yes Runway lights : No

## Long Xuyen

## VVLX

- N 10.19 E 105.28 Alt 3 m / 10ft
- Runway 08/26 Gravel Longueur/Length: 1036m/3400ft Largeur/Width: 28m/90ft
- Tower : 130.550

- **Fuel : yes Eclairage des pistes/ runway lights : No**
- **Caution : gravel mounds each side of the runway – Tas de graviers des 2 côtés de la piste.**

## **Mang Buk**

## **VVMB**

- **N 14.50                      E 108.11                      Alt. 1203m/ 3948ft**
- **Runway 11/29 Terre/Dirt    Longueur/Length: 700m/2300ft    Largeur/Width: 20m/65ft**
- **Tower , Fuel : none                      Runway lights : No**

## **Marble mountain**

## **VVMM**

- **N 16.02    E 108.15    Alt 9m/29ft**
- **Runway 16/34    Asphalt    Longueur/Length: 1500m/4920ft    largeur/Width: 20m/65ft**
- **Tower : 127.600**
- **Fuel : yes    Runway lights : no**
- **Nav aids : NDB : D (DA NANG) 243.00    VOR-DME : DAN (DANANG) 114.400**

## **Nam Can**

## **VVNC**

- **N 08.44    E 104.58    Alt 1 m / 3ft**
- **Runway 9/27    Gravier/Gravel    Longueur/Length: 950m/3116ft    Largeur/Width: 30m/100ft**
- **Tower : No comms.**
- **Fuel : None    Eclairage des pistes/ runway lights : None**
- 

## **Nha Trang**

## **VVNT**

- **N 12.13                      E 109.11                      Alt 5 m / 16ft**
- **Runway 12/30                      Asphalte/ASP                      Longueur/Length: 1980m/6490ft                      Largeur/Width: 50m/164ft**
- **Tower : 123.300 Sol/Ground : 129.925**
- **Fuel : yes                      Eclairage des pistes/ runway lights : Yes**



- Nav aids : VOR/DME : VONA (NHA TRANG) : 108.000 sur l'aéroport/at field
- NDB : NT (NHA TRANG) : 528.000
- ILS on runways 12/30
- Historical information : [Nha Trang AFB at Wikipedia](#)

## **Phan Rang Air Force Base**

**VVPA**

- N 11.38 E 108.57 Alt 24 m / 80ft
- Runway 04L/22R Concrete Longueur/Length: 3050m/10000ft Largeur/Width: 45m/147ft
- Runway 04R/22L Tôle/Steel mats. Longueur/Length: 3050m/10000ft Largeur/Width: 32m/105ft
- Tower : 121.350 Ground : 120.650
- Fuel : yes Eclairage des pistes/ runway lights : Yes
- Nav aids : VOR-DME : PHAR (PHAN RANG) 108.200
- ILS : 22R
- Historical information : [Phan Rang AFB at Wikipedia](#)

## **Phan Thiet**

**VVPT**

- N 10.55 E 108.07 Alt 2 m / 6ft
- Runway 07/25 Tôle/Steel-mats Longueur/Length: 1200m/3937ft Largeur/Width: 23m/75ft
- Tower : 126.075 Fuel : yes Eclairage des pistes/ runway lights : No

## **Phu Bai**

**VVPB**

- N 16.23 E 107.42 Alt 13 m / 43ft
- Runway 9/27 Asphalte/ASP Longueur/Length: 1900m/6240ft Largeur/Width: 35m/115ft
- Tower : 118.000
- Fuel : yes Eclairage des pistes/ runway lights : Yes



**Phu Cat AFB, C-7 Caribou ramp**

## **Phu Cat AFB**

## **VVPC**

- **N 13.56 E 109.02 Alt 31 m / 101ft**
- **Runway 15/33 Concrete Longueur/Length: 3064m/10052ft Largeur/Width: 45m/150ft**
- **Tower : 118.600 Ground : 126.225**
- **Fuel : yes Eclairage des pistes/ runway lights : yes**
- **Nav aids: NDB : C (PHUCAT) 388.00 VOR-DME : PCA (PHUCAT) : 116.300**
- **Historical information : [Phu Cat AFB at Wikipedia](#)**

## **Plateau GI Chuong Nghia**

## **VVPG**

- **N 14.35 E 108.17 Alt 1174 m / 3851 ft**
- **Runway 07/25 Terre/Dirt Longueur/Length: 850m/2788ft Largeur/Width: 26m/85ft**
- **Tower : 126.850**
- **Fuel : none Eclairage des pistes/ runway lights : No**

## **Pleiku AFB**

## **VVPK**

- **N 14.00 E 108.01 Alt 741 m / 2431 ft**
- **Runway 09/27 Asphalt Longueur/Length: 1800m/ 5905ft Largeur/Width : 38 m/124ft**
- **Tower : 118.100**
- **Fuel : yes Eclairage des pistes/ runway lights : Yes**
- **Nav aids : NDB : PK (PLEIKU) : 282.000 sur l'aéroport/at field**
- **Historical information : [Pleiku AFB at Wikipedia](#)**

**Pleiku Camp Holloway US Army airfield      VVPK**

- **N 13.58.47      E 108.02.17      Alt 741 m / 2223 ft**
- **Runway 05/23      Tôle/Steel-mat.      Longueur/Length: 1200m/3600ft      Largeur/Width : 50 m/150ft**
- **Tower : 136.525**
- **Pleiku tower : 118.100**
- **Fuel : yes      Eclairage des pistes/ runway lights : No**
- **Important:**
- **pour atterrir/ to land at C. Holloway choisir/choose runway 05/23 at ATC.**
- **Pour décoller/to take off      depuis/from C. Holloway choisir/choose runway 05/23 at FSX start choice**

**Quang Long – Ca Mau      VVCM**

- **N 09.11      E 105.10      Alt. 2 m / 7 ft**
- **Runway 09/27      Tôle/Steel mats.      Longueur/Length: 1080m/3543ft      Largeur/Width: 30m/100ft**
- **Tower : No comms**
- **Fuel : No      Eclairage des pistes/ runway lights : No**

**Quang Tri      VVQT**

- **N 16.46      E 107.09      Alt 10 m / 32ft**
- **Runway 14/32 Tôle/Steel-mat. Longueur/Length: 1150m/3773ft      Largeur/Width: 30m/100ft**
- **Tower : 135.050**
- **Fuel : yes      Eclairage des pistes/ runway lights : No**

**Qui Nhon AFB      VVQI**

- **N 13.45      E 109.13      Alt 8 m / 26ft**
- **Runway 18/36      Asphalt      Longueur/Length:**

**1550m/5085ft Largeur/Width: 30m/100ft**

- **Tower : 125.325**
- **Fuel : yes Eclairage des pistes/ runway lights : yes**
- **Nav aids: NDB : QNH (QUI NHON) 455.00**

## **Rach Gia**

## **VVRG**

- **N 09.56 E 105.08 Alt 2 m / 7ft**
- **Runway 08/26 Asphalt Longueur/Length: 1500m/4920ft Largeur/Width: 30m/100ft**
- **Tower : 118.300**
- **Fuel : yes Eclairage des pistes/ runway lights : No**
- **Nav aids.: NDB : RG (RACHGIA) : 335.00**

## **Red Beach**

## **VVRB**

**N 16.05 E 108.08 Alt 6 m / 20ft**

- **Runway 13/31 Tôle/Steel-mats Longueur/Length: 600m/1970ft Largeur/Width: 20m/66ft**
- **No comms.**
- **Fuel : No Eclairage des pistes/ runway lights : No**

## **Soc Trang**

## **VVBX**

- **N 09.34 E 105.57 Alt. 5 m / 16 ft**
- **Runway 04/22 Asphalte/ASP. Longueur/Length: 1040m/3400ft Largeur/Width: 20m/65ft**
- **Tower : 124.150**
- **Fuel : Yes Eclairage des pistes/ runway lights : No**
- 

## **Tan Son Nhut (Tansonnhat) Saïgon**

## **VVTS**

**N 10.49 E 106.39 Alt 10 m / 32ft**

- **Runway 07L/25R Concrete Longueur/Length: 3055m/10000ft Largeur/Width: 50m/164ft**

- **Runway 07R/25L Concrete Longueur/Length: 3042m/10000ft Largeur/Width: 50m/164ft**
- **Tower : 118.700 130.000 App.: 120.100 125.500 134.100  
Atis: 128.000 Ground: 121.600 121.900**
- **Fuel : yes Eclairage des pistes/ runway lights : Yes  
ILS 07L/25R**
- **Nav aids : VOR+DME : SAIGON TAN SON NHUT  
VTSN : 108.200 sur l'aéroport/at field**
- **NDB : SAIGON NTSN : 448.000 sur l'aéroport/at field**
- **Historical information : [Tan Son Nhut AFB at Wikipedia](#)**

## **Tay Ninh city**

**VVTY**

- **N 11.18 E 106.06 Alt 16 m / 52ft**
- **Runway 02/20 Tôle/Steel-mats. Longueur/Length: 640m/2100ft Largeur/Width: 16m/52ft**
- **No comms.**
- **Fuel : no Eclairage des pistes/ runway lights : no**

## **Tay Ninh west**

**VVTN**

- **N 11.29 E 106.03 Alt 12 m / 39ft**
- **Runway 02/20 Asphalt Longueur/Length: 1260m/4134ft Largeur/Width: 24m/79ft**
- **Tower : 128.725**
- **Fuel : no Eclairage des pistes/ runway lights : no**

## **Tuy Hoa Air Force Base – Dong Tac**

**VVTH**

- **N 13.02 E 109.20 Alt 10 m / 32ft**
- **Runway 03R/21L Tôle/Steel-mats. Longueur/Length: 2745m/9006ft Largeur/Width: 45m/147ft**
- **Runway 03L/21R Concrete Longueur/Length: 2900m/9515ft Largeur/Width: 45m/147ft**
- **Runway 03A/21B Asphalt Longueur/Length: 1020m/3346ft Largeur/Width: 30m/98ft**
- **Tower : 118.900**

- Fuel : yes Eclairage des pistes/ runway lights : 03L/21R
- Nav aids : NDB : TH (TUY HOA) 200.00
- Historical information : [Tuy Hoa AFB at Wikipedia](#)

## Vung Tau

## VVVT

- N 10.22 E 107.05 Alt 2 m / 6ft
- Runway 18/36 Asphalte/ASP Longueur/Length: 1620m/5315ft Largeur/Width: 30m/100ft
- Runway 12/30 Tôle/steel-mat Longueur/Length: 650m/12132ft Largeur/Width: 20m/65ft
- Tower : 120.175
- Fuel : yes Eclairage des pistes/ runway lights : Yes
- Nav aids : NDB : XVL (VUNG TAU) : 235.000 sur l'aéroport/at field
- VOR : VTV ( VUNG TAU) : 114.700 sur l'aéroport/at field



Antonov AN-2, ang Mig-21 (static Mig-21 from Guy Diotte)

## North Vietnam

### Bac Mai – Hanoi

### VVBA

- N 20.59 E 105.49 Alt 10 m / 32ft
- Runway 15/33 Concrete Longueur/Length:

**1300m/4265ft Largeur/Width: 40m/131ft**

- **Tower : 134.525**
- **Fuel : yes Eclairage des pistes/ runway lights : Yes**

## **Dien Bien Phu**

## **VVDB**

- **N 21.23 E 103.00 Alt 460m/1509ft**
- **Runway 16/34 Planks Longueur/Length: 1830m/6000ft largeur/Width: 30m/98ft**
- **Tower : 118.700**
- **Fuel : no Runway lights : no**

## **Haiphong Catbi**

## **VVCI**

- **N 20.49 E 106.43 Alt 4 m / 13ft**
- **Runway 07/25 Concrete Longueur/Length: 2354m/7725ft Largeur/Width: 50m/165ft**
- **Tower : 118.500**  
**Fuel : yes Eclairage des pistes/ runway lights : Yes**  
**Navais : NDB : B (HAIPHONG) 327.00**  
**VOR-DME : CAB (CATBI HAIPHONG) 115.100**

## **Na San**

## **VVNS**

- **N 21.12 E 104.02 Alt 669 m / 2195ft**
- **Runway 12/30 Planches/Planks Longueur/Length: 2409m/7903ft Largeur/Width: 45m/147ft**
- **Tower : 118.400**  
**Fuel : yes Eclairage des pistes/ runway lights : No**

## **Noibai (Hanoi)**

## **VVNB**

- **N 21.13 E 105.48 Alt 12 m / 39ft**
- **Runway 11/29 Béton/Concrete Longueur/Length: 3200m/10500ft Largeur/Width: 45m/147ft**
- **Tower: 118.200 118.800 App.Hanoi: 125.900 132.300**



**App Noibaï.:119.600 121.000 Atis:127.000**

- **Fuel : yes Eclairage des pistes/ runway lights : No**
- **Nav aids : NDB: KW (NOIBAI) : 320.000 – K (NOIBAI INTL) 230.000sur l'aéroport/at field**
- **VOR-DME : NOB ( NOIBAI) : 116.100 sur l'aéroport/at field**

## **Phuc Yen**

**VVPY**

- **N 21.18 E 105.43 Alt 28 m / 92ft**
- **Runway 15/33 Concrete Longueur/Length: 1400m/4595ft Largeur/Width: 40m/131ft**
- **Tower : 130.525**
- **Fuel : yes Eclairage des pistes/ runway lights : Yes**
- **Nav aids : NDB : NDBA (PHUY) 225.00**
- **VOR-DME : PHUC (PHUC YEN) 108.200**

## **Vinh**

**VVVH**

- **N 18.44 E 105.40 Alt 5 m / 16ft**
- **Runway 17/35 Concrete Longueur/Length: 2186m/7172ft Largeur/Width: 45m/147ft**
- **Tower : 125.425**
- **Fuel : yes Eclairage des pistes/ runway lights : None**
- **Nav aids : NDB : X (VINH) 448.00**
- **VOR-DME : VINB (VINH) 113.100**

# **Cambodia**

## **Battambang**

**VDBG**

- **N 13.05 E 103.13 Alt 18 m / 60ft**

- **Runway 07/25    Asphalt   Longueur/Length: 1605m/3266ft   Largeur/Width: 34m/111ft**
- **Tower : 122.400**
- **Fuel : yes   Eclairage des pistes/ runway lights : Yes**
- **Nav aids : NDB : BB (BATTAMBANG) 484.00**
- **VOR-DME : BANT (BATTAMBANG) 108.200**

## **Kratie**

## **VDKT**

- **N 12.29   E 106.03   Alt 30 m / 100ft**
- **Runway 03/21   Terre/Dirt   Longueur/Length: 1100m/3610ft   Largeur/Width: 30m/100ft**
- **No comms.**
- **Fuel : No   Eclairage des pistes/ runway lights : No**
- **Nav aids : None**
- **Unfriendly, unusable – Hostile, non utilisable**

## **Phnom Penh**

## **VDPP**

- **N 11.32   E 104.50   Alt 12 m / 40ft**
- **Runway 05/23   Asphalt   Longueur/Length: 2133m/7000ft   Largeur/Width: 40m/130ft**
- **Tower : 118.000   App.: 123.800**
- **Fuel : yes   Eclairage des pistes/ runway lights : Yes**
- **Nav aids : NDB : PNP (PHNOM PENH) 365.00**
- **ILS : R 23 (PNP)**

## **Ratanakiri**

## **VDRK**

- **N 13.43   E 106.59   Alt 324 m / 1063ft**
- **Runway 18/36   Terre/Dirt   Longueur/Length: 715m/2345ft   Largeur/Width: 30m/100ft**
- **No Comms**
- **Fuel : no   Eclairage des pistes/ runway lights : no**
- **Nav aids : no**
- **Unfriendly, unusable – Hostile, non utilisable**

## **Sihanoukville**

## **VDSV**

- **N 10.35 E 103.37 Alt 10 m / 32ft**
- **Runway 03/21 Asphalt Longueur/Length: 1200m/3937ft Largeur/Width: 34m/111ft**
- **Tower : 125.300**
- **Fuel : yes Eclairage des pistes/ runway lights : Yes**
- **Nav aids : NDB : SIHAN (SIHANOUKVILLE) 213.00**

## **Stung Treng**

## **VDST**

- **N 13.31 E 106.01 Alt 60 m / 200ft**
- **Runway 02/20 Oil treated Longueur/Length: 1330m/4365ft Largeur/Width: 29m/95ft**
- **Tower : 122.800**
- **Fuel : Yes Eclairage des pistes/ runway lights : No**
- **Nav aids : NDB : ST (STUNG TRENG–STREUNG) 444.00**
- **Unfriendly, unusable – Hostile, non utilisable**

# **LAOS**

**The Kingdom of Laos was a covert theater of battle for the other belligerents during the Vietnam War. The fighting in Laos involved the North Vietnamese Army, American, Thai, and South Vietnamese forces directly and through irregular proxies, like the Hmong tribes, in a battle for control over the Laotian Panhandle. The North Vietnamese Army occupied the area for use as the Ho Chi Minh Trail supply corridor and staging area for offensives into South Vietnam. There was a second major theater of action on and near the northern Plaine des Jarres.**

**The CIA, with the help of local tribes, operated several airstrips known as Lima Sites. These airstrips, most of them located in mountainous regions, helped in providing food, weapons and other stuff to the belligerents. Air America flew a fleet of various aircrafts piloted by so-called civilians.**

**Ban Na Nio****Lima Site 22****LS22**

- **N 18.57 E 103.15 Alt 913 m / 2995ft**
- **Runway 05/23 Gravier/Shale Longueur/Length: 360m/1180ft Largeur/Width: 20m/65ft**
- **No comms**
- **Fuel : no Eclairage des pistes/ runway lights : no**

**Ban San Thong****Lima Site 20 LS20**

- **N 19.11 E 102.52 Alt 1306 m / 4284ft**
- **Runway 18/36 Gravier/Shale Longueur/Length: 580m/1900ft Largeur/Width: 18m/60ft**
- **No comms**
- **Danger : Décollage/take off : Rwy 36  
Atterrissage/landing Rwy 18**
- **Fuel : no Eclairage des pistes/ runway lights : no**
- **Nav aids : NDB : NDBJ (BAN SAN) 339.00**

**Hong Non****Lima Site 86****VL86**

- **N 20.23 E 103.53 Alt 1341 m / 4400ft**
- **Runway 17/35 Gravier/Shale Longueur/Length: 457m/1500ft Largeur/Width: 21m/70ft**
- **No comms**
- **Fuel : No Eclairage des pistes/ runway lights : no**
- **Nav aids : NDB : NDBO (HON NON) 221.00**

**Kiou Kacham****Lima Site 04****LS4**

- **N 19.35 E 102.13 Alt 1393m / 4180ft**
- **Helizone**
- **Comms. None**
- **Fuel : No Eclairage des pistes/ runway lights : No**
- **Nav aids.: NDB : NDBE (KIOU) 223.00**
- **VOR+DME : VOMA (KIOU KACHAM) 109.200**



**Air America flightline at Long Tien, Laos**

## **Long Tieng**

### **Lima Site 20(A)**

### **L20A**

- **N 19.06                      E 102.55      Alt 990 m / 3248ft**
- **Runway 14/ 32    Oil treated    Longueur/Length:**  
**1360m/4462ft    Largeur/Width: 28m/91ft**
- **Tower: 129.950    Fuel : yes**
- **Nav aids : NDB : NDBK (LONG TIEN) : 196.000 sur**  
**l'aéroport/at field**
- **VOR-DME : VORB ( TIEN) : 108.550 sur l'aéroport/at**  
**field**
- **One of the main bases of operations of Air America**

## **Luang Prabang**

### **VLLB**

- **N 19.53    E 102.09    Alt 289 m / 948ft**
- **Runway 06/24    Asphalt    Longueur/Length:**  
**2200m/7218ft    Largeur/Width: 45m/147ft**
- **Tower : 118.500    Multi.: 118.100    119.100**
- **Fuel : yes    Eclairage des pistes/ runway lights : no**
- **Nav aids : NDB : PRAB (PRABANG) 400.00**

## **Moung Phun**

### **Lima Site 37**

### **LS37**

- **N 19.05    E 102.42    Alt 1127 m / 3700ft**
- **Runway 02/20    Gravier/Gravel    Longueur/Length:**  
**488m/1600ft    Largeur/Width: 45m/145ft**
- **No comms**
- **Fuel : No    Eclairage des pistes/ runway lights : no**
- **Nav aids : NDB : NDBM (PHUN) 362.00**

**Musong Ngat****Lima Site 01****LS01**

- **N 19.09 E 104.41 Alt 83 m / 272ft**
- **Runway 15/33 Herbe/Grass Longueur/Length: 397m/1300ft Largeur/Width: 15m/50ft**
- **Comms. None**
- **Fuel : No Eclairage des pistes/ runway lights : No**
- **Nav aids.: NDB : NDBC (NGAT) 485.00**
- 

**Nam Lan****Lima Site 07****LS07**

- **N 19.47 E 103.36 Alt 1534 m / 5033ft**
- **Runway 18/36 Gravier/Gravel Longueur/Length: 274m/900ft Largeur/Width: 10m/32ft**
- **No comms**
- **Fuel : No Eclairage des pistes/ runway lights : no**
- **Nav aids : NDB : NDBH (LS07) 234.00**

**Pa Doung****Lima Site 05****LS05**

- **N 19.06 E 103.07 Alt 1402 m / 4600ft**
- **Runway 18/36 Terre/Clay Longueur/Length: 510m/1673ft Largeur/Width: 21m/68ft**
- **No comms**
- **Fuel : no Eclairage des pistes/ runway lights : no**
- **Nav aids : NDB : NDBF (PA DOUNG) 281.00**
- 

**Pakse****VLPS**

- **N 15.08 E 105.46 Alt 106 m / 347ft**
- **Runway 14/32 Asphalt Longueur/Length: 1627m/5338ft Largeur/Width: 35m/124ft**
- **Tower : 118.500**
- **Fuel : yes Eclairage des pistes/ runway lights : yes**
- **Nav aids : VOR-DME : VORP (PAKSE) 108.200**
- **NDB : PAKE (PAKSE) : 451.00**

## LS14

- **N 19.00 E 103.00 Alt 1583 m / 5200ft**
- **Runway 18/36 Gravier/Shale Longueur/Length: 610m/2000ft Largeur/Width:27m/90ft**
- **No comms**
- **Danger : Décollage/take off : Rwy 18**  
**Atterrissage/landing Rwy 36**
- **Fuel : no Eclairage des pistes/ runway lights : no**
- **Nav aids : NDB : NDBA (PHA KHAO) 425.00**
- **VOR+DME : VOCA (PHA) 117.950**

## LS06

- **N 19.47 E 103.08 Alt 1068 m / 3504ft**
- **Runway 15/33 Gravier/Shale Longueur/Length: 304m/1000ft Largeur/Width: 21m/70ft**
- **No comms**
- **Fuel : Yes Eclairage des pistes/ runway lights : no**
- **Nav aids : NDB : NDBG (PHOU VIENG) 268.00**



## Air America Pilatus Porter approaching LS85

## LS85

- **N 20.27                      E 104.43                      Alt 1433 m / 4701ft**
- **Runway 18/36   Gravier/gravel   Longueur/Length: 304m/997ft   Largeur/Width: 21m/69ft**
- **Tower : No   Fuel : No   Eclairage des pistes/ runway**



**lights : No**

- **Nav aids : VOR+DME : BORA ( PHU PHA THI) 108.500 sur l'aéroport/at field**
- **NDB : NDBN ( PHU PHA TH) : 291.00 sur l'aéroport/at field**
- **Attention/Caution : Aéroport dangereux/dangerous airfield**
- **Historical information : [Battle of LS85 at Wikipedia](#)**

## **San Tiou**

## **Lima Site 02**

## **LS02**

- **N 19.28                      E 103.34                      Alt 1667 m /5470ft**
- **Runway 01/19    Schiste/shale    Longueur/Length: 243m/797ft    Largeur/Width: 30m/100ft**
- **Attention/Beware : elephants**
- **Tower , Fuel : no Eclairage des pistes/ runway lights : No**
- **Nav aids : NDB : NDBA (SAN TIAU) : 475.000 sur l'aéroport / at field**
- **TACAN (VOR+DME) : VORA (SAN) : 108.200 sur l'aéroport / at field**

## **Savannakhet**

## **VLSK**

- **N 19.33    E 104.45    Alt 155 m / 508ft**
- **Runway 04/22    Asphalt    Longueur/Length: 1633m/5357ft    Largeur/Width: 38m/124ft**
- **Tower : 118.500**
- **Fuel : Yes    Eclairage des pistes/ runway lights : No**
- **Nav aids.: VOR-DME : SAVA (SAVANAKHET) 108.200**

## **Vientiane Wattay**

## **VLVT**

- **N 17.59    E 102.33    Alt 171 m / 561ft**
- **Runway 13/31    Asphalt    Longueur/Length: 3006m/9862ft    Largeur/Width: 60m/196ft**
- **Tower : 118.100 App.: 119.700**
- **Fuel : yes    Eclairage des pistes/ runway lights : Yes**
- **Nav aids : NDB : NDBW (WATTAY) 345.50**
- **ILS : R 13 (IVTN)**

**Xieng Dat**

**Lima Site 26**

**LS26**

- **N 19.24 E 102.42 Alt 805 m / 2641ft**
- **Runway 18/36 Bitume/Bituminous Longueur/Length: 1219m/4000ft Largeur/Width: 45m/145ft**
- **Tower : 120.925**
- **Fuel : Yes Eclairage des pistes/ runway lights : No**
- **Nav aids.: NDB : NDBL (XIENG DAT) 443.00**

**Xieng Khouang**

**VLXK**

- **N 19.26 E 103.09 Alt 1066 m / 3497ft**
- **Runway 07/25 Asphalt Longueur/Length: 2400m/7875ft Largeur/Width: 42m/137ft**
- **Tower : 118.500**
- **Fuel : Yes Eclairage des pistes/ runway lights : No**

## **THAILAND**

**Khorat**

**VTUN**

- **N 14.56.04 E 102.04.43 Alt 728ft/ 222m**
- **Runway 06/24 Concrete Length/longueur 3000m/9843ft**
- **Width/largeur 45m/148ft**
- **Tower Fuel: Yes Runway lights : Yes**
- **TACAN**
- **NDB : KHO (Khorat)**
- **VOR/DME: KRT Khorat 113.7**
- **The mission of the USAF forces at Korat was to conduct operations in support of U.S. commitments in North Vietnam, South Vietnam, Cambodia and Laos. During the Vietnam War, pilots from Korat RTAFB primarily flew interdiction, direct air support, armed reconnais-**

## **Nakhon Phanom**

## **VTUW**

- **N 17.23                      E 104.38                      Alt 179 m / 587ft**
- **Runway 157/33      Asphalt    Longueur/Length: 2510m/8235ft    Largeur/Width: 45m/147ft**
- **Tower : 122.500    Fuel : yes    Eclairage des pistes/ runway lights : Yes**
- **Nav aids : VOR+DME : NKP ( NAKHON PHANOM) 111.600 sur l'aéroport/at field**
- **NDB : NP ( NAKHON PHANOM) : 383.00 sur l'aéroport/at field**
- **It was the closest U.S. Air Force base to communist North Vietnam, and just eight miles from communist infested, war torn Laos. This proximity was extremely convenient for Air Force combat missions flown from there, and a lifesaver for shot-up U.S. aircrews. The major operations Involving NKP were Operations Igloo White (covert electronic warfare), Operation Barrel Roll (covert interdiction and close air support campaign conducted in Laos) and Operation Ivory Coast (the Son Tay POW rescue mission in November 1970).**

## **Nam Phong**

## **VT85**

- **N 16.39    E 102.58    Alt 239 m / 784ft**
- **Runway 01/19      Ciment/concrete    Longueur/Length: 3157m/10358ft    Largeur/Width: 45m/147ft**
- **Tower : 128.250**
- **Fuel : yes    Eclairage des pistes/ runway lights : Yes**
- **Called "The Rose Garden" after the song by Miss Lynn Anderson, the airbase hosted several squadrons, all Marines, which flew F-4 Phantom IIs, A-6 Intruders, KC-130 Hercules, and CH-46 Sea Knights. During Operations the base was used to fly air operations against targets in Vietnam, Cambodia and Laos.**

## **Takhli**

## **VTPI**

- **N 15.15.36 E 100.21.0 Alt. 32m/107ft**
- **Runway 18/36 Concrete Length/Longueur 9850ft/3000m  
Width/Largeur 173ft/53m**
- **Fuel : Yes Runway lights/eclairages : Yes**
- **NDB NTL 350**
- **DME TKL 114.8**
- **Major strikes against North Vietnamese logistical areas-  
were launched from this base. Among the targets were  
the Yen Bay Arsenal and storage complex, Viet Tri Rail-  
road and highway bridge, Hanoi petroleum storage  
complex, Dap Cau railroad and highway bridge, Phuc  
Yen petroleum storage and Thai Nguyen railroad station  
and yard. To that effect F-100 Super Sabre (1961-1963),  
F-105 Thunderchief (1963-1970), Boeing KB-50 (1964-  
1965), F-104 Starfighter (1965), Douglas EB-66 Des-  
troyer (1965-1970). KC-135 Stratotanker (1967-1968),  
General Dynamics F-111 (1967, 1972-1974), F-4 Phan-  
tom II (1972) and MC-130 Combat Talon) were assigned  
to the tasks.**

## **U Tapao RTAFB**

## **VTBU**

- **N 12.40 E 101.00 Alt 18 m / 59ft**
- **Runway 18/36 Concrete Longueur/Length:  
3520m/11550ft Largeur/Width: 60m/197ft**
- **Tower : 118.100 118.300 App.: 119.700, 134.500  
Ground : 121.900**
- **Fuel : yes Eclairage des pistes/ runway lights : Yes  
ILS : 18**
- **Nav aids : NDB : UP (U-TAPHAO) 414.00**

- **VOR-DME : BUT (U-TAPHAO) 110.800**
- **Opened on July 1966, the airbase became the front-line facility for KC-135s and B52s under the 4258<sup>th</sup> Strategic Wing. The wing was charged with the responsibility of supporting refueling requirements of USAF fighter aircrafts, plus conducting bombing missions on a daily basis. Under the operational nickname “Arc Light”, B-52s flew over 35,000 strikes against the enemy from 1967 to 1970. One of the most important actions of the B-52s was during the siege of Khe San in early 1968. From March 1969, raids were carried not only over North Vietnam, but also over Laos and Cambodia.**

## **Udorn Thani RTAFB**

## **VTUD**

- **N 17.23 E 102.47 Alt 176 m / 577ft**
- **Runway 12/30 Ciment/concrete Longueur/Length: 3052m/10000ft Largeur/Width: 45m/147ft**
- **Tower : 122.500 App.: 126.200, 119.600 Ground : 121.900**
- **Fuel : yes Eclairage des pistes/ runway lights : Yes ILS : 30**
- **Nav aids : VOR-DME : UDT (UDON THANI) 108.200**
- **The base did contain a large array of aircrafts. It was the front-line of the USAF (Tactical Reconnaissance and Fighter Squadrons) as well as of Air America, an American passenger and cargo airline covertly owned and operated by the CIA. Mc Donnell RF-101C Voodoo, McDonald Douglas F-4 Phantoms and Douglas RC-47 were stationed there together with an array of Air America propeller aircrafts.**



**Ubon AFB, Thailand**

## **Ubon RTAFB (Ubon Ratchathani)                      VTUU**

- **N 15.15                      E 104.52                      Alt 123 m / 403ft**
- **Runway 05/23      Asphalte/ASP      Longueur/Length: 3000m/9845ft      Largeur/Width: 45m/145ft**
- **Tower : 122.500   App.: 123.500 125.750 134.750**  
**Ground: 121.900   Fuel : yes**
- **Nav aids : NDB : UB (UBON) : 373.000 sur l'aéroport/at field   ILS: Rwy 23**
- **VOR-DME : UBL ( UBON) : 112.700 sur l'aéroport/at field**
- **The 8th Tactical Fighter Wing arrived at Ubon on 8 December 1965 from George AFB, California as part of the US deployment of forces for Operation Rolling Thunder and became the host unit. Its mission included bombardment, ground support, air defense, interdiction, and armed reconnaissance. It was equipped with F-4C/D. The appearance of supersonic Mig-21 called for a contingent of Lockheed F-104C Starfighters which were tasked of flying escort missions over North Vietnam.**

**On 10 May 1972, as part of the first day of strikes during Operation Linebacker, the wing destroyed the Paul Doumer Bridge near Hanoi. Using laser-guided bombs, the wing was able to put the bridge out of commission. On 13 May 1972 the wing using laser-guided bombs, attacked the Thanh Hoa Bridge, destroying this vital supply line of the North Vietnamese.**

**Other aircrafts stationed at Ubon were C-130 Spectre and B-57G Canberra.**

## Out of war zone airbases

### Andersen AFB

### PGUA

### GUAM

- N 13.34 E 144.55 Alt 191 m / 626ft
- Runway 06R/24L Asphalt Longueur/Length: 3410m/11190ft Largeur/Width: 60m/196ft
- Runway 06L/24R Asphalt Longueur/Length: 3218m/10558ft Largeur/Width: 60m/196ft
- Tower : 135.500 App.: 134.325 Ground : 136.025
- Fuel : yes Eclairage des pistes/ runway lights : Yes ILS : 06R

### Clark Air Force Base

### RPLC

### PHILIPPINES

- N 15.11.15 E 120.33.59 Alt 157 m / 515ft
- Runway 02/ 20 Concrete Longueur/Length: 3220m/10500ft Largeur/Width: 52m/170ft
- Tower: 118.700 124.300 Clear.: 125.200 App.: 119.200 Ground : 125.650 Fuel : yes
- Nav aids : NDB : CIA (NEW CLARK) : 362.000 sur l'aéroport/at field
- VOR : CIA ( CLARK) : 113.100 sur l'aéroport/at field ILS : Rwy 02/20

### Elmendorf Air Force Base

### PAED

### USA

- N 61.15 W 149.48 Alt 65 m / 213ft
- Runway 06/24 Asphalt Longueur/Length: 3040m/9975ft Largeur/Width: 61m/200ft
- Runway 16/34 Concrete Longueur/Length: 2281m/7483ft Largeur/Width: 45m/147ft
- Tower : 127.200 App.: 118.600 Ground : 121.800 Atis: 124.300
- Fuel : yes Eclairage des pistes/ runway lights : Yes
- Nav aids : VOR-DME : EDF (ELMENDORF ANCHORAGE) 113.400
- ILS : R 06



# Japan

- **N26.35.37 E127.76.75 Alt 43m/143ft**
- **Runway 05L/23L Asphalt Longueur/Length: 3690m/12109ft Largeur/Width: 91m/300ft**
- **Runway 05R/23R Asphalt Longueur/Length: 3690m/12108ft Largeur/Width: 61m/200ft**
- **Fuel : Yes**
- **Nav aids : NDB RODN KADE 396.6**  
**VOR/DME OKIN 108.2**
- **Aircrafts: B-52, KC-135, EC-135, SR-71, F-102**
- **Operation Arc Light and Operation Linebracker.**

# Taiwan

- **N24.26.50                      E120.62.13   Elev: 663**
- **Runway 18/36                      Concrete      Length: 11995**  
**Width: 200**
- **Fuel: Yes**
- **Nav aids : NDB      Taichung (TC)      210**  
**ILS/DME      Rw36      ICCK      111.5**  
**DME CCK Ching Chian Khang 111.3**
- **Aircrafts: Lockheed C-130, Fairchild C-123, KC135,**  
**Martin EB-57 Canberra, McDonnell F-4C Phantom II,**  
**American F-104 Starfighters**

## Landing zones and Fire Support Bases

**These installations are by essence short-lived as they are supporting ground operations. Dozen of them were spread all over South Vietnam. Usually located on top of hills, they were reachable by helicopters only. Howitzer 105 was the most common piece of artillery.**

**FSB DANGER**  
N 10.19

**VVF1**  
E 105.53

**VIETNAM (South)**  
Alt.: 2 m / 6 ft

**Lang Vei SF camp**  
N 16.36

**SFLV**  
E 106.41

**VIETNAM (South)**  
Alt.: 348 m / 1141 ft

**With the time, we will install additional fire support bases.**

## **Seaplanes refueling points**

**They are all fictious except the USS Pine Island.**



**Tien Sha ramp (Da Nang bay)**

**Tien Sha ramp (Da Nang bay) VVH1 VIETNAM**

N 16.06 E 108.14 Fueldock near LST, in red buoy alignment

**Vinh Quy Hydro ( North of Qui Nonh) VVH2 VIETNAM**

N 13.52 E 109.15

**Dam Mon Ha Hydro (South of Tuy Hoa) VVH3 VIETNAM**

N 12.38 E 109.23 west side of small island

**USS Pine Island (Cam Ranh bay) VVH4 VIETNAM**

N 11.53 E 109.10 rear of tanker, flashing light. Comms: 119.650

**Cua Ham Luong Hydro (Mekong delta) VVH5 VIETNAM**

N 09.55 E 106.38

**Achen Mekong Hydro (Mekong) VDH1 CAMBODIA**

N 12.48 E 105.57 Fueldock in red buoy alignment, flashing light.

## **The fictious LZ**

**They are optionals, easy to enabled or disabled, and if required can be desinstalled. They are fictive airstrips which call for**

### **LZ Alpha (fictive/fictious)      VVXC      VIETNAM**

- **N 14.10                      E 107.35                      Alt 1145 m / 3756ft**
- **Runway 1/19      Terre/Dirt      Longueur/Length: 700m/2296ft Largeur/Width: 30m/99ft**
- **Tower : 123.700**
- **Fuel : no                      Eclairage des pistes/ runway lights : No**

### **LZ Bootleg (fictive/fictious)                      VVBO      VIETNAM**

- **N 12.07                      E 108.43                      Alt 976 m / 3202ft**
- **Pente/Slope 13/31      Herbe/grass      Longueur/Length: 700m/2295ft Largeur/Width: 40m/131ft**
- **Tower : 132.150**
- **Fuel : no                      Eclairage des pistes/ runway lights : No**

### **LZ Cimarron (fictive/fictious)                      VDCI      CAMBODIA**

- **N 13.52                      E 107.20                      Alt 120 m / 393ft**
- **Runway 16/34                      Latérite/Clay  
Longueur/Length: 500m/1640ft      Largeur/Width : 20m/65ft**
- **River Tonlé 04/24 Eau/Water**
- **Tower : no**
- **Fuel : only seaplanes                      Eclairage des pistes/ runway lights : No**
- **Une petite piste, et le fleuve, idéal pour les avions amphibies. Small airstrip and river, ideal for seaplanes and amphibious aircraft.**

### **LZ Dragonfly (Fictive / fictious)      VVDR      VIETNAM**

- **N 10.24                      E 105.41                      Alt 2 m / 6ft**
- **Runway 13/31      Argile/Clay      Longueur/Length: 500m/1640ft      Largeur/Width: 16m/52ft**

- **Tower : none, Fuel : none** **Eclairage des pistes/**  
**runway lights : No**

**LZ Emeraude (Fictive / fictious)    VVEE    VIETNAM**

- **N 10.06                      E 106.47                      Alt 1 m / 3ft**
- **Runway 01/19    Sable/Sand    Longueur/Length:**  
**700m/2297ft    Largeur/Width: 20m/65ft**
- **Tower : none Fuel : none** **Eclairage des pistes/**  
**runway lights : No**

#### **NOTA:**

**About the identification of airports we have sought to retain, where possible, identifications of the past as in the nomenclature of USAF airports across the Pacific and Southeast Asia East (Soc Trang and was codified VVBX not VVST). However discrepancies may appear: current codes can regain old identifications of other airports, such as Binh Thuy, one of the 2 airports is now called Can Tho and Tra Noc is the old identification of the other airport Can Tho VVCT. In case of discrepancy with existing airports, we have invented new identification.**

#### **Important: Updates.**

**Airfields may be upgraded or modified, the updates are then published. Other Airfields and sceneries are to come.**

**All airfields modifications and new airfields by FSX Vietnam War project except A Shau by Mark Schimmer, completed by the FSX Vietnam War project.**



**UH-1 Huey – Fire Support Base Danger**

# **AIRFIELD DOCUMENTATION – TAD**

**Example of contenu : NHA TRANG AFB**

**Nha Trang VVNT VIETNAM**

**N 12.13. E 109.11 Alt 5 m / 16ft**

**Runway 12/30 Asphalte/ASP Longueur/Length: 1980m /6490ft**

**Largeur/Width: 50m /164ft**

**Tower : 123.300 Sol/Ground : 129.925**

**Fuel : yes Eclairage des pistes/ runway lights : Yes**

**Nav aids : VOR/DME : VONA (NHA TRANG) : 108.000 sur l'aéroport/at field**

**NDB : NT (NHA TRANG) : 528.000**

**ILS on runways 12/30**

## **FLIGHT PLANS**

**These flight plans are provide to allow discovery of airfields  
You can load them from FSX. All VFR, named VNW...**

**Bac Mai to Hanoi Noibai : estimated 1h 35mn via  
Na San – Dien Bien – Phuc Yen**

**Bien Hoa to Phnom Penh : estimated 38mn via  
Tay Ninh City – Tay Ninh West**

**Cam Ranh AFB to Da Lat – Camly : estimated 44mn via  
Phan Rang AFB – Da Lat Lienkhong – Gia Nghia**

**Cam Ranh AFB to Chu Lai AFB : estimated 1h 04mn via  
Nha Trang AFB – Tien Hoa AFB - Qui Nhon AFB – Phu Cat AFB**

**Chu Lai AFB to Da Nang AFB : estimated 30mn via  
Kham Duc – Marble Mountain**

**Da Nang AFB to Quang Tri AFB : estimated 24mn via  
Phu Bai AFB – Hué**

**Da Nang AFB to Savannakhet : estimated 1h 03mn  
via A Chau – Khe Sanh – Lang Vei**

**Khorat RTAFB to Luang Prabang : estimated 1h 35 mn  
via Nam Phong RTAFB – Udon RTAFB**

**Long Tien (LS 20A) to Luang Prabang : estimated 1h 47 mn  
via Lima Sites 91, 01, 85, 07, 06**

**Luang Prabang to Long Tien (LS 20A) : estimated : 50 mn  
via Lima Sites 06, 07 , 02 , 22 , 05, 14**

**Pakse to Udon RTAFB : estimated 1h 26 mn  
via Ubon RTAFB – Savannakhet – Nakhon Phanom RTAFB**

**Pakse to Vientiane : estimated 1 h 23 mn  
Via Savannakhet – Nakhon Phanom RTAFB**

**Phan Rang AFB to Bien Hoa AFB : estimated 54 mn  
via Phan Thiet AFB – Vung Tau AFB – Tan Son Nhut AFB**

**Phnom Penh to Pakse : estimated 1h 36 mn  
via Kratie – Stung Treng – Ratanakiri**

**Phuc Yen to Vinh : estimated 1h 02mn  
via Hanoi Noibai – Haiphong Catbi**

**Pleiku AFB to Kontum : estimated 41 mn  
via Dak To – Ben Het – Dak Pek – Mang Buk – Plateau GI**

**Rach Gia to Sihanoukville : estimated 37mn  
via Ha Tien south – Ha Tien – An Thoi – Phu Quoc**

**Sihanoukville to U Tapao RTAFB : estimated 1h 25mn  
via Battambang**

**Soc Trang AFB to Nam Can : estimated 57 mn  
Via Con Son – Bac Lieu – Quang Long**

**Tan Son Nhut AFB to Rach Gia : estimated 33 mn  
via Cao Lang (Tan Tich) – Long Xuyen**

**Tan Son Nhut AFB to Soc Trang : estimated 31 mn  
via Binh Thuy - Can Tho**

**Udon RTAFB to Khorat RTAFB : estimated 47 mn  
via Nam Phong**

**U Tapao RTAFB to Takhli AFB : estimated 48mn  
via Bangkok**

**Vientiane to Luang Prabang : estimated 53 mn  
via Lima Sites, 22, 05 , 14, 20, 37, 4**

## **5 – Complementary objects libraries objects libraries used.**

**- Much of the items used are from the libraries of Microsoft FSX, some from the FSX Acceleration pack not affect use.**

**- The objects of Vietnam from Al Simms, who are already integrated into the scenery, thank you to him. If you want to use in scenes, you can find them on Flightsim, Avsim, Simviation, search: Al Simms, to place them in scenes: using software SbuilderX**



**Viet Cong units in Delta area (boats from Al Simms)**

- The static aircraft by Guy Diotte
- Radar, shelters and lighting by Jim Dhaenens
- Revetments by Xavier Carré

**VERY IMPORTANT – TO BE DOWNLOAD :**

**Other libraries used and must be downloaded separately and installed in each folder Vietnam War project (in the scenery and texture files)**

- Objects library JGSE (objects airports) John Stinstrom to download: (FS2004 Military Ground Service Equipment) Here at Flightsim: [Military Ground Service Equipment](#)

and here at Avsim: :[Military Ground Service equipment](#)

- Objects library Vintage Military Buildings SS FS9 scenery objects by Sidney Schwartz

Here at Flightsim: [Vintage Military Buildings SS](#)

and here at Avsim: [Vintage Military Buidings SS](#)

**These files are also available from Simviation**

**These libraries (scenery and textures) should be installed in the FSX / addon scenery / Vietnam War project**



## 6 - Other scenes and texture

Others complementary scenes that are available on Internet sites like :

- **USS Mispilion** : supply ship located north-east of South Vietnam equipped with an helipad (AO-105) by Earl A. Watkins
- **Zone Pacifique et mer de Chine:**
  - 
  - **Wake (FS9)**, relay for the crossing of the Pacific Ocean by John Stinstrom.

Furthermore, you can use additional textures developed by Ruud Faber and available as payware : Fscene4X Asia : here [Fscene4X Asia](#)

.

En outre, Vous pouvez utiliser les textures supplémentaires créés par Ruud Faber et disponible en payware : Fscene4X Asia, ici : [Fscene4X Asia](#).

## 7 - Software

- **Airport edition** : ADE Airport Design Editor by The ScruffyDuck Company
- **Objects placement** : Sbuilder X by Luis Sá
- **Objects placement** : Whisplacer lc0277@nerim.net
- **AI traffic** : AIFP AI Flight Planner by Don Grovestine



**CH-53 and C-123 Provider near Quang Tri, Vietnam**

## **8 – AI Traffic**

**A basic AI traffic is included, and will ultimately be developed for every airports and airstrips present in the pack.**

**The following aircrafts have been selected :**

- **OV10 Bronco, OV1 Mohawk, U10 Helio Courier, T-28, A-1 by Tim Piglet Conrad**
- **Constellation EC121D et EC121R by Manfred Jahn**
- **C123K by Vladimir Zhyhulskiy**
- **L19 Birdog by Massimo Taccoli**
- **B-57, F-105, A3-B, C141 et C130 by Alphasim now freeware**
- **C118 by Tom Gibson repaint : Jens B Kristensen**
- **S3 Seaking by Rob Nieuwenhoven, Chris Jones and Mal Lloyd. Repaint Lewis Magruder**
- **P3 Orion by KBT Team**
- **B-52 by Mr Yanco, KBT**
- **Avro Shackleton by Paul Foster**
- **Pilatus Porter by Don Moser, repaint Air America by Jean-Luc Bouvron**
- **F-100 Super Sabre by Kazunori Ito, Mark Rooks and Francis Silva**
- **CH-53 by Rory Kelly (Rory Kelly being deceased, we utilize this helicopter without his agreement)**
- **Grumman HU-16 Albatross: Greg Pepper (RIP) and Michael Verlin, updated by David Poulin**
- **Beech D 18 S by Milton Shupe, textures by Andre Folkers**
- **Mig-21 by Mike Pearson and Mehlin Rainer**
- **C-124 by Arik Hohmeyer and fs-design Berlin**

**We thank the authors for having allowed us to make use of them, original readme can be found in each AI airplane folder.**

## **9 – Suggested aircrafts and helicopters**

**You can find many informations about airplanes at [FSX Vietnam War project](#) links to dowload them and some repaints.**



**Douglas A-1 Skyraider, SVNAF, Nha Trang AFB (A-1 from Tim Piglet Conrad)**

#### **Freeware :**

- **Helio Courier (FS9) H-295 and U10 by Tim Conrad, textures U10 army by Ron Rhea**
- **Pilatus Porter PC6 (FS9) by Don Porter**
- **Bird Dog (FS9) by Massimo Taccoli**
- **Cessna O2 Skymaster (FS9) by Mark Rooks**
- **Grumman OV1 Mohawk (FSX) by Tim Piglet Conrad**
- **OV10 Bronco (FSX) file OV-10 AX by Tim Piglet Conrad : a must have**
- **C123 Provider (FSX) by Vladimir Zhyhulskiy file C123zhv : a must have**
- **C130 Hercules (FSX) by Eduardo Fadul repaints by Ron Rhea. Panel updates by Danny Garnier**
- **F100 Super Sabre by Robert K Suchke**
- **F4 Phantom by Kazunori Ito**
- **Grumman A6E Intruder by Kazunori Ito, FSX modified by Damien-13N (separate files)**
- **UH 1 Huey by Jordan Moore**
- **Constellation EC-121D and EC-121R by Manfred Jahn**
- **Douglas A-1 Skyraider by Tim Piglet Conrad**
- **Grumman HU-16 Albatross: Greg Pepper (RIP) and Michael Verlin, updated by David Poulin**
- **Beech D 18 S by Milton Shupe, textures by Andre Folkers**
- **and many others that can be found at Flightsim., Simviation and Avsim**
- **et bien d'autres que vous pouvez trouver à Flightsim., Simviation and Avsim**

## **Payware:**

- **C130 by Sim Captain:**
- **A1 H by Razbam (FS9)**
- **C7 Caribou by Alphasim :**
- **A6 Intruder by Razbam or Alphasim:**

## **10 - Configuration and settings.**

**Many AI aircrafts originating from FS9 are not compatible with DirectX 10.**

### **VERY IMPORTANT.**

**3 areas are FPS costly : Cam Ranh bay, Bien Hoa and Da Nang.**

**To increase the frame rate, it is suggested to deactivate shadows, decrease the level of autogen and reduce the AI traffic.**

### **Autogen and scenes complexity**

**Sceneries are set so that all objects will be visible only if the density of scenes complexity is set from very dense to extremely dense.**

**You can, also, adjust autogen density.**

### **AI Traffic**

**Traffic is planned from 1% to 70%**

**traffic from Da Nang AFB, Bien Hoa AFB and Cam Ranh AFB are planned from 30% to 70%, at 1% VnW AI trafic do not appear.**

### **Known bugs**

- **Sandbags objects used at Khe Sanh and Plateau GI, suffered from self-illumination at night (error while compiling Gmax model, will be corrected in following version)**
- **A pylon appear at runway end, Binh Tuy, it was impossible to mask or exclude it !**
- **Railway bridge at Hué too.**

## **11 – Thanks and Credits**

### **Scenes and objects libraries from Microsoft Flight Simulator X**

**Objects that can be downloaded from the Net :**

- **Library Vintage Military Buildings SS FS9 scenery objects : Sidney Schwartz**
- **Library JGSE (airport objects) Military Ground Service Equipment : John Stinstrom**

**Objects integrated in the pack, by permission or readme informations.**

- **Objets from Vietnam Chu Lai : Al Simms, a great job**
- **Radars : Jim Dhaenens (FSXrdrs)**
- **Lights and shelters: Jim Dhaenens**
- **Static aircrafts : Guy Diotte ( F4, KC-135, C-130, EA-6 Prowler, OV-10 Bronco, AN-2, Mig-21, F-104.)**

### **AI aircrafts**

- **OV10 Bronco, OV1 Mohawk, U10 Helio Courier, T-28 Trojan, A-1J Skyraider : Tim Piglet Conrad**
- **Constellation EC121D et EC121R : Manfred Jahn**
- **C123K : Vladimir Zhyhulskiy, Repaints by StteveB**
- **L19 Birdog : Massimo Taccoli**
- **C141, C130, B-57, A-3 : Alphasim now freeware**
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- **Mig-21 by Mike Pearson and Mehlin Rainer**
- **C-124 by Arik Hohmeyer and fs-design Berlin**

**Thanks to all those authors for having allowed us to integrate their objects in our project.**

**Thanks also for our testers and the support of FS Tutoriels. To all who have**

**encouraged us at Sim-Outhouse and Pilote-Virtuel.**

**Special thanks to Al Simms, Tim Piglet Conrad, Manfred Jahn for « cooking » AI EC-121 for the project, KBT Team for P-3 model and search, Mark Schimmer, Vladimir Zhyhulskiy, SteeveB, Guy Diotte for airplanes adaptation, Pepe Pompero, JM Mabile, Patrick Renaudin**

**Last but not least, thanks for the support and encouragements of Jerry and Bill who provided us with documentation, pictures and experience.**

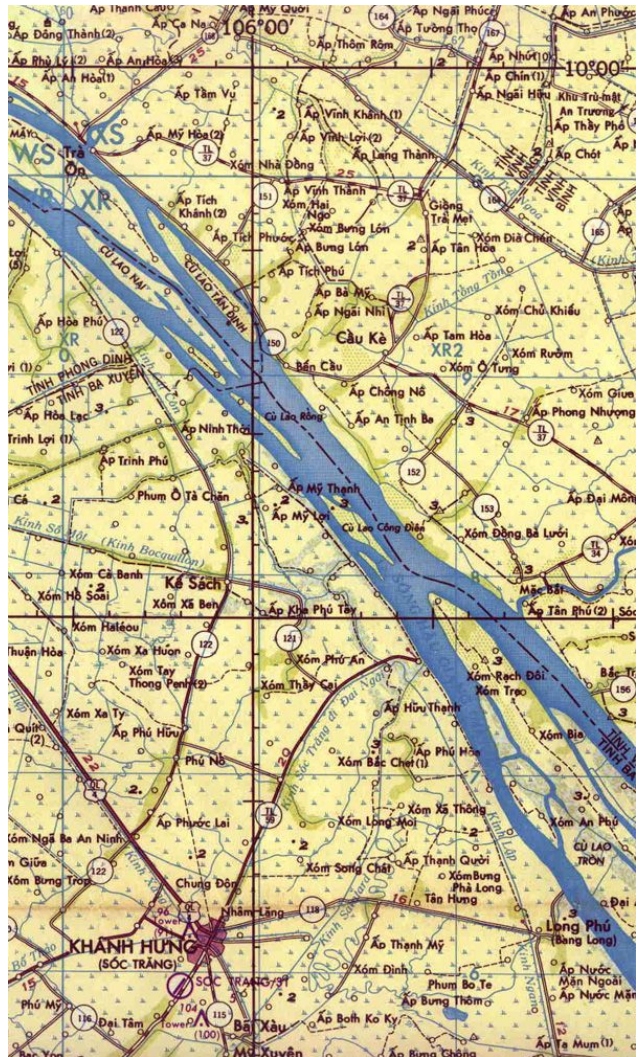


**C-47 over Nha Trang AFB**



## 12 – Sources and links

- [USAF in South Vietnam at Wikipedia](#)
- [The Vietnam Center & Archive](#)
- [The C-7A Caribou Association](#)
- [RJ Smith Vietnam maps](#)
- [Vietnam War Resources](#)
- [Nexus Vietnam Maps](#)
- [Air America - Official Web Site for Air America](#)



Vietnam map from Nexus

and many others

Things about – et à propos.

To read :      Dispatches by Michael Herr

To listen :    Run through the jungle by Creedence Clearwater Revival  
Magical mystery tour by The Beatles  
Paint it black by The Rolling Stones  
The End by The Doors

To see :        Platoon by Oliver Stone  
Apocalypse Now Redux by Francis Ford Coppola  
Full Metal Jacket by Stanley Kubrick  
Born on the Fourth of July by Oliver Stone

And many, many others...

## **13 – Legal stuff**

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