

# **subLOGIC Scenery Disk**

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First Printing  
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subLOGIC Corporation  
715 Cedarbrook Drive  
Champaign, IL 61820

**Database Design by Michael Woodley**

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## Introduction

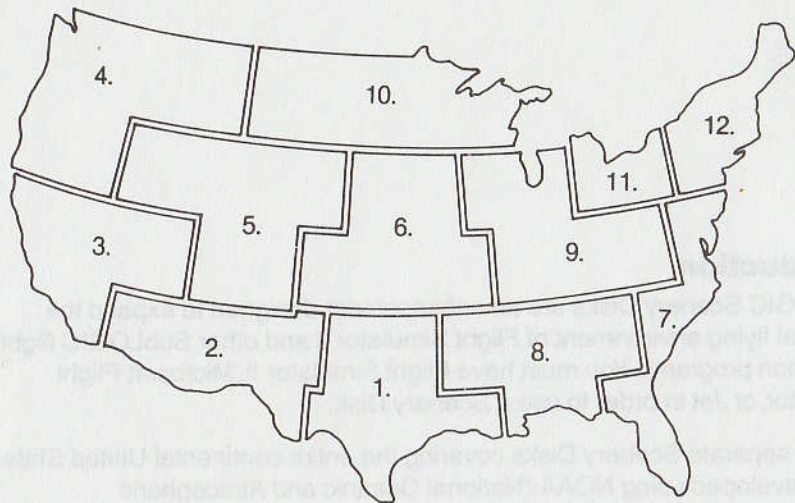
SubLOGIC Scenery Disks are an enhancement designed to expand the potential flying environment of Flight Simulator II and other SubLOGIC flight simulation programs. You must have Flight Simulator II, Microsoft Flight Simulator, or Jet in order to use a Scenery Disk.

Twelve separate Scenery Disks covering the entire continental United States were developed using NOAA (National Oceanic and Atmospheric Administration) Sectional Aeronautical Charts and Airport/Facility Directories. These charts divide the United States into 37 different sectionals. Each sectional includes all of the airfields and radio-navigation aids in the area covered by the chart. Sectional charts also show topographical information and obstacles that are important to aviators. Scenery Disk databases were digitized from these NOAA sectionals.

Scenery Disks include enough radio-navigation aids and visual scenery to allow the user to navigate anywhere in the sectional areas covered. A typical Scenery Disk (SD) covers three aeronautical sectionals, and includes approximately 100 airports and 100 radio-nav aids. Some SD's may have more airports and radio-nav aids, since some areas of the country are more densely populated than others. Any of these SD's are ideal for simulating cross-country flights.



SubLOGIC Scenery Disks are grouped by aeronautical sectional. Each SD covers a geographical region of the United States, generally comprised of three sectionals:



**WEST**

- 1. Dallas – Ft. Worth  
Houston  
San Antonio  
Brownsville
- 2. Phoenix  
Albuquerque  
El Paso
- 3. San Francisco  
Los Angeles  
Las Vegas
- 4. Klamath Falls  
Seattle  
Great Falls
- 5. Salt Lake City  
Cheyenne  
Denver
- 6. Omaha  
Wichita  
Kansas City

**EAST**

- 7. Washington  
Charlotte  
Jacksonville  
Miami
- 8. Memphis  
Atlanta  
New Orleans
- 9. Chicago  
St. Louis  
Cincinnati
- 10. Billings  
Twin Cities  
Green Bay
- 11. Lake Huron  
Detroit
- 12. Halifax  
Montreal  
New York

In addition to twelve regional Scenery Disks, a number of STAR Scenery Disks are also available. A STAR Scenery Disk covers a small area with a relatively dense amount of scenery. These disks are mainly intended for visual flight (sight-seeing). They include buildings and landmarks, as well as detailed renditions of the major airports in the area.

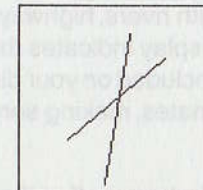
**Reading a Sectional Directory**

Below is a sample listing from a sectional directory with a description of the information provided. All available airports and radio-nav aids for a given sectional are listed alphabetically. Radio transmitters that border a sectional are also available on neighboring sectionals, so you can cross sectional boundaries when instrument flying.

1—2 - ALBUQUERQUE AND EL PASO—2

3—Alpine

4—12628N 10661E—5  
6—alt. 4513  
7—RWY 1-19 8—5999 X 72  
RWY 5-23 4821 X 39



9—Anton Chico (VOR)—10

4—14710N 10537E—5  
11—freq. 110

9—Artesia (NDB)—10

4—13703N 10575E—5  
11—freq. 414

- 1 Page number
- 2 Sectional name
- 3 Airport name
- 4 North coordinate
- 5 East coordinate
- 6 Altitude in feet
- 7 Runway Designator, number
- 8 Runway dimensions in feet
- 9 Radio Aid name
- 10 Radio Aid type designator
- 11 Radio Aid frequency

Notice that the vertical sides of the airport map align with magnetic north. Magnetic north is the direction you are pointing when your magnetic compass reads 0. Each sectional map's VOR needles point toward magnetic north. The sides of the map align with true north. This is consistent with NOAA sectionals.



## Using a Scenery Disk with Flight Simulator II

Load Flight Simulator II in the usual way. When the program has finished loading, enter the simulator's program editor as described in your operating manual and set the NORTH and EAST coordinates of the airport you've chosen from the directory for the region you'd like to explore (set ALTITUDE to 0). Exit the editor, remove the FSII disk and insert the appropriate Scenery Disk. Next, press CTRL E and wait for a menu to appear. This menu page lists the names of the sectionals included on the Scenery Disk. Press any key to exit, and you should find yourself at the airport you've selected. If no scenery is visible, go into radar mode and zoom out to determine your approximate location. You may be able to zoom all the way out and view the entire continental United States database, complete with rivers, highways, coastlines, and the Great Lakes. This default database display indicates that you are not within the boundaries of the sectionals included on your disk. Re-enter the program editor and double-check your coordinates, making sure that both NORTH and EAST coordinates are correct.

When you find yourself at the airport you've selected, it may be a good idea to save your position to a User Mode (see User Mode Library in the FSII Pilot's Operating Handbook). This way, if you crash, you will be returned to the selected airport. Otherwise you will be returned to a preset location (above Lake Michigan) in the default USA database.

## Crossing a Sectional Boundary

When you fly over a sectional boundary, one of two things will occur. If the neighboring sectional is also included on your Scenery Disk, that sectional will load and you will have to switch to the appropriate new map and directory provided. If the neighboring sectional is not available on your disk, a common default USA database will load. This default database allows you to zoom out (in radar mode) to view the major geographical features of the United States.

If you have another Scenery Disk containing the appropriate sectional, you can switch disks and press CTRL E to log-in the new disk. After a brief load, the names of the new sectionals available on this disk will be displayed. Press any key to exit and return to Flight Simulator II.

**IMPORTANT** - If you want to change Scenery Disks or go back to the scenery on the FS2 disk, you must log-in the new disk by pressing CTRL E. If you do not log-in the new disk, you will not get the new scenery and you will risk causing a disk load error.

## Using a Scenery Disk with Microsoft Flight Simulator (IBM PC Versions)

Load Flight Simulator in the usual way. When you want to switch to a Scenery Disk, remove the Flight Simulator disk and insert the appropriate Scenery Disk. Press CTRL E. This will log-in the disk. A message will appear on the screen identifying the names of the sectional areas contained on the disk.

The first Scenery Disk log-in automatically checks to see if you have the most recent version of Flight Simulator. If you don't, the program updates Flight Simulator in memory. When this happens, your flight coordinates are set back to the Chicago area. This will only happen on the first Scenery Disk log-in of the session. After the first log-in, your flight coordinates and conditions will carry over as you change Scenery Disks while flying.

After logging in the first Scenery Disk, you can fly or slew through all of the scenery on the disk. You can freely exchange Scenery Disks as you fly to new areas. Press CTRL E to log-in the new area when you switch disks. If you fail to log-in a new Scenery Disk after inserting it, it will be automatically logged in when the disk is accessed. The log-in message will appear after every manual or automatic log-in.

## Using the Microsoft Flight Simulator Disk as a Scenery Disk

The Flight Simulator disk contains all of the usual scenery for the Chicago, Seattle, Los Angeles, and New York areas. You can insert this disk and log it in as you would any other Scenery Disk to fly in these areas. This applies to Jet as well as Flight Simulator.

## Special Note for IBM PC Flight Simulator Version 2.0

Very few copies of Version 2.0 exist. You most likely have Version 2.1, 2.10, 2.10a, 2.12, or a later version of Microsoft Flight Simulator. Look on the disk label near the serial number area, or look on the first menu page when loading Flight Simulator. If you have Version 2.0, insert the Scenery Disk and press ESC instead of CTRL E for the first log-in of the session. After this first log-in, press CTRL E as usual to log-in new Scenery Disks. Also, never re-insert the Version 2.0 disk to use the Chicago, Seattle, Los Angeles, or New York scenery; you must re-boot Version 2.0 to return to these areas. Version 2.0 also cannot be used as a Scenery Disk for Jet.



# Tandy 1000/1200/2000 Flight Simulator

Scenery Disks are compatible with the Tandy 1000/1200/2000 version of Flight Simulator. With this version, always make sure to log-in a new Scenery Disk by pressing CTRL E once the disk has been inserted. No auto-load is available on this version, and failure to log-in a new disk can cause unpredictable results when the disk is accessed after an unlogged disk change.

## Special Note for Compaq 286 Users

The 1.2Mbyte floppy drives in the Compaq Deskpro 286 computer cause disk-read errors when using Scenery Disks with SubLOGIC Jet or Microsoft Flight Simulator. Here is the reason why, and how to get around it:

**PROBLEM** - Whenever you remove a disk from the floppy drive by turning the release lever, the diskette springs out of the drive. This spring action triggers a switch in the drive that informs the disk read/write software that you have just changed the disk. The software assumes that you are about to insert a new disk, and switches to 1.2Mbyte read mode from whatever mode it happens to be in. Jet, Flight Simulator, Scenery Disks (and many other manufacturers programs) are on 360K disks, and a read error results when the Compaq 286 tries to read them as 1.2Mbyte disks.

You can verify this for yourself using the Microsoft Flight Simulator. Boot the disk, then enter and exit the editor several times (ESC key) just to see that everything is functioning properly. Then pop the disk out of the drive, re-insert it, and try to get back into the program editor. You will get a disk read error.

**SOLUTION** - You can avoid this problem by tricking the disk drive into thinking that you haven't changed disks. Do this by holding the disk in place with your finger while releasing the disk-release lever. DON'T LET THE DISK POP OUT OF THE DRIVE. Then manually remove the disk and insert a Scenery Disk (or Flight Simulator as scenery for Jet). The computer will never know that you changed the disk, and everything should work fine. Remember - if you let the disk pop itself out of the drive, the switch will be activated and the drive will go into 1.2Mbyte mode, thus creating errors.

## Jet Users

Scenery Disks are compatible with SubLOGIC Jet. Follow the instructions in your Jet manual for loading a Scenery Disk. Jet has no automatic log-in feature, so always make sure you return to the Jet startup menu page before inserting a new Scenery disk. Changing Scenery Disks in the middle of a Jet flight can cause unpredictable results when the disk is accessed after a disk change.

## Conclusion

As of this writing there are no fuel or repair facilities available on regular Scenery Disks (although they do occur on STAR Scenery Disks). To refuel, just land at an airport and enter the program editor. Your tanks will be filled and repairs will be made when you exit the editor.

We intend to periodically update and improve our Scenery Disks to include more airports, radio aids, and scenery details as recommended by users. If you know of an airport (or any other detail) that should be included on future versions of these Scenery Disks, please drop us a line and include the required information ON A SEPARATE SHEET OF PAPER (so we can store it in our files). Here's what we need to know:

Airports:	NAME, CITY, & STATE LATITUDE, LONGITUDE, & ALTITUDE HEADING, LENGTH, & WIDTH of each runway
Buildings, objects:	NAME, CITY, & STATE LATITUDE, LONGITUDE, & DIMENSIONS

Pictures and postcards are also welcome, especially aerial views. If you're unable to determine the latitude and longitude for the object or airport in question, please provide a description of where the object can be located on a map. All customer correspondence is read and answered (when appropriate). And please; remember to include any scenery suggestions or information on a SEPARATE page of your letter.



## Introduction to Scenery Disk # 7

Scenery Disk Design and Tool Development by Michael Woodley  
Scenery Art by Loren Kirkwood

Maps & Directories by Michelle Maase, Ken Ruminski, & Toni Arcus

Scenery Disk # 7 pushes the entire scenery disk concept right to the limits; the disk storage space allocated to scenery is almost completely filled. We've used new techniques to improve scenery appearance, and included many new features not found on previous disks. SD# 7 includes highly-detailed areas for sight-seeing, as well as "generic" scenery areas with enough radio nav-aids and refueling facilities to keep you occupied for a long time. The following notes and recommendations will help you to explore these new scenery areas.

---

See the important government buildings and monuments in Washington DC; the Lincoln Memorial, Washington Monument, Capitol Building, White House, Pentagon, and more. (Buildings are only visible below 2,500 feet.) Set coordinates to:

North - 16135  
East - 20192  
Alt. - 16

Take off from Washington National Airport and head north.

---

Jacksonville is beautiful at twilight, with St. John's River meandering through the city and around several transmitter towers.

North - 12298  
East - 19004  
Alt. - 41

Take off at Craig Municipal Airport.

---

Visit NASA's facilities at Cape Canaveral; see a space shuttle on the launch pad, the Vehicle Assembly Building, shuttle landing strip, and a row of rocket gantry towers. Disregard FAA regulations and test your flight skills by weaving through the gantries as if they were pylons.

(continued)



North - 11519  
East - 19408  
Alt. - 10

Take off from Cape Canaveral Skid Pad and fly north.

---

Miami has an impressive skyline and two large international airports.

North - 10357  
East - 19615  
Alt. - 10

Take off from Miami International.

---

Follow Highway 1 south across causeways and islands all the way to Key West.

North - 10223  
East - 19528  
Alt. - 9

Take off from Homestead General Airport and head southeast to Highway 1.

---

Put those northern U.S. mid-winter blues in the ejection seat and take a trip to the sunny Bahamas!

North - 10737  
East - 20209  
Alt. - 7

Take off from Freeport International.

---

The improved radar view on this Scenery Disk will help you find your way home in slew mode if you accidentally fling yourself over the edge of the "world".

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If you haven't learned how to use radio aids to navigate, now's the time. Start at Miami International:

North - 10357  
East - 19615  
Alt. - 10

Make sure you've got a full load of fuel, then taxi to runway 9R. Go to full throttle and take off!

Tune NAV1 to Bimini VOR (116.7). Set VOR heading to 96 degrees. After takeoff, turn to this heading. You should see buildings just to the right of the center of your screen. You may want to make a quick diversion to take a closer look, but be sure you then get back on course to the Bimini VOR. Take one last look out your back window at Miami. It's going to be a long flight.

When you reach Bimini tune NAV2 to Nassau VOR (112.7), change the setting on NAV1 to 114, and get on that radial. Follow this heading until you pick up Nassau VOR. When you pick up Nassau, tune NAV1 to 112.7 and fly to it. You will pass between Andros Island (on your right) and the Berry Islands when you are about 35 nautical miles (NM) from Nassau VOR.

You may want to land at Nassau International to refuel since we are touring the islands. From here, we will take the scenic route to Freeport International.

From Nassau, head towards Treasure Cay VOR and fly over Great Abaco Island. From Treasure Cay, fly on to Freeport and refuel. Then fly to Palm Beach International and tune COM1 to 123.75.

Another interesting flight path would be to take this route from Palm Beach to Miami and land on ILS runway 9R at Miami International.

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Try flying non-stop from Key West to Tampa. There are no refueling facilities between these two areas and the distance is about 220 NM. This will test your stamina just like the Bahamian tour did.

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Our favorite course is to fly from Atlantic City or Philadelphia to Miami and just follow the coastline for navigation. This flight can most easily be made in slew mode since it would take hours to actually fly.

---

Start from Norfolk and fly to Baltimore, then to Philadelphia by following the Chesapeake Bay to Baltimore.

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Follow the Potomac River from its beginning to the Chesapeake Bay. Start at Dulles and fly up-river, then turn around. Be sure to stay below 2,500 feet MSL

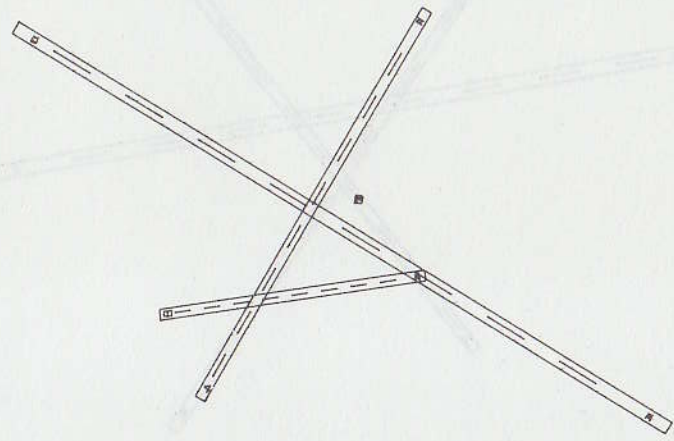


when nearing Washington DC so you can view the details of the Mall, Pentagon, Washington Monument, Capitol Building, and other landmarks.

On the Charlotte Sectional, try flying ILS approaches or follow the railroads from city to city. A good route would be to fly from Savannah to Charleston, then on to Columbia, Charlotte, Winston-Salem, Raleigh-Durham, and Fayetteville.

The Jacksonville sectional features Cape Canaveral and Jacksonville as its main points of interest.

Above all else, explore! A lot of work went into this project. We hope that you enjoy the results as much as we do!

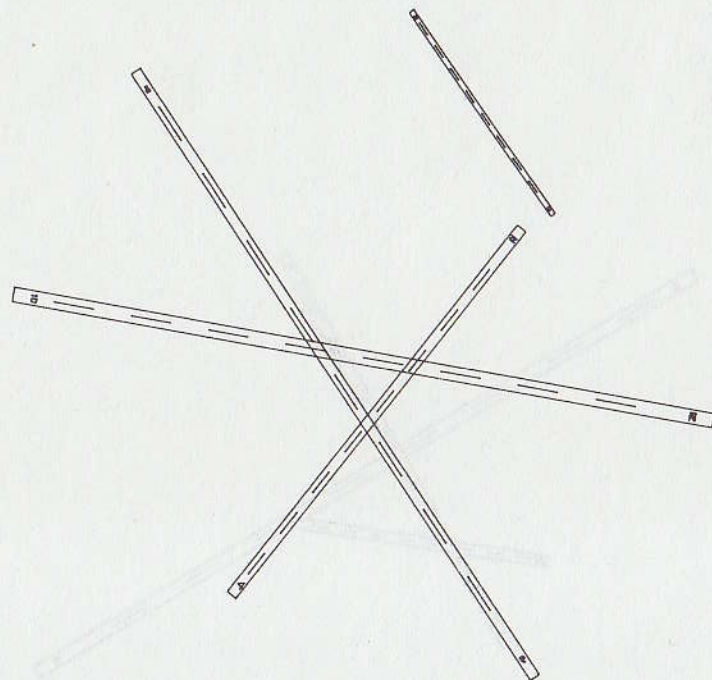


Atlantic City, NJ      Atlantic City (F)

16507N    20982E  
alt. 76

RWY 13-31    10000 X 180  
RWY 04-22    6144 X 150



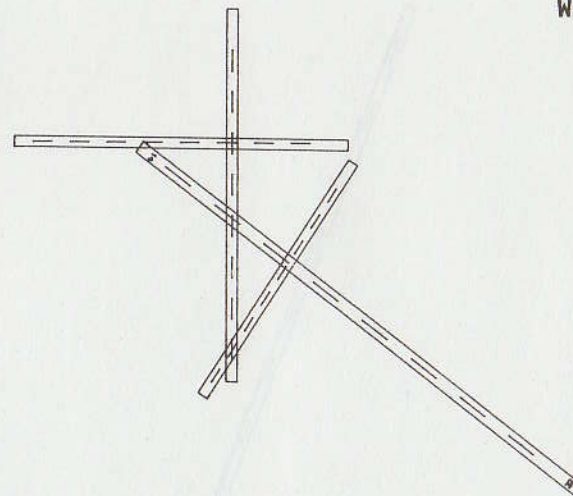


Baltimore, MD      Baltimore - Washington Int'l

16296N 20300E  
alt. 146

RWY 15R-33L 9519 X 150  
RWY 10-28 9452 X 200  
RWY 04-22 6005 X 150  
RWY 15L-33R 3199 X 75

ILS 33L  
Frequency: 111.7  
Heading: 332 degrees  
Altitude: 1465 ft. @ LOM



Baltimore, MD      Martin State

16367N 20376E  
alt. 24

RWY 14-32 7000 X 180

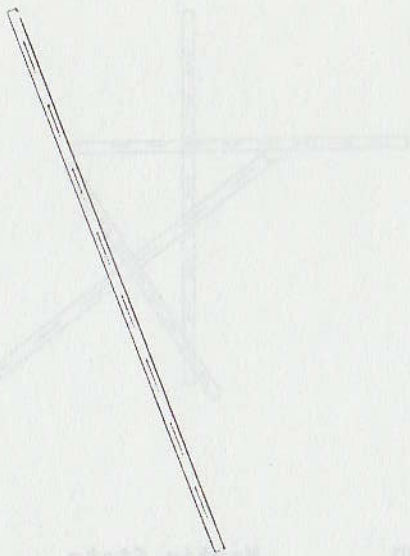
Berlin, NJ      Camden-Burlington Co

16650N 20854E  
alt. 138

RWY 05-23 2590 X 50







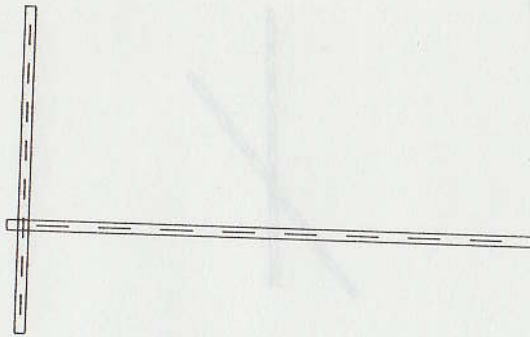
Cambridge, MD      Cambridge-Dorchester

16050N    20550E  
alt.    20  
RWY 16-34    4000 X 75



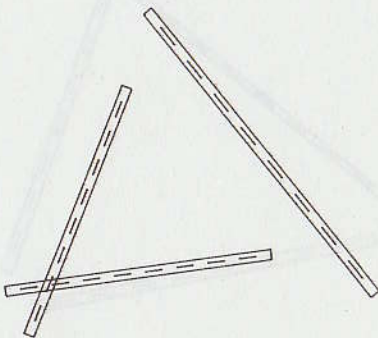
Dover - Cheswold, DE Delaware Airpark

16362N    20663E  
alt.    56  
RWY 09-27    3484 X 50



Elizabeth City, NC    Elizabeth City CGAS

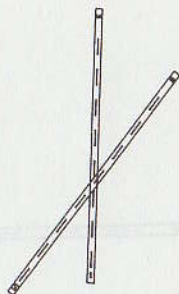
15055N    20632E  
alt.    12  
RWY 10-28    7219 X 150  
RWY 01-19    4518 X 150



Emporia, VA      Emporia Muni

15197N    20146E  
alt.    126  
RWY 15-33    5009 X 100



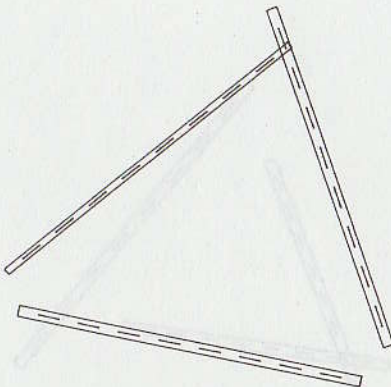


Frederick, MD

Frederick Muni

16366N 20052E  
alt. 305

RWY 01-19 4000 X 100  
RWY 05-23 3800 X 100

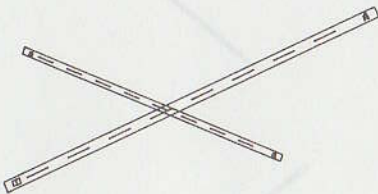


Georgetown, DE

Sussex Co.

16141N 20770E  
alt. 51

RWY 04-22 5000 X 150  
RWY 13-31 2325 X 50

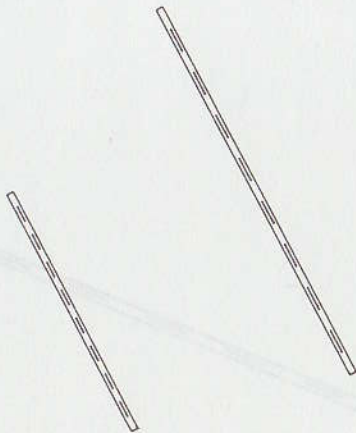


Lancaster, PA

Lancaster

16714N 20374E  
alt. 403

RWY 08-26 5398 X 150



Manassas, VA

Manassas

16063N 20046E  
alt. 193

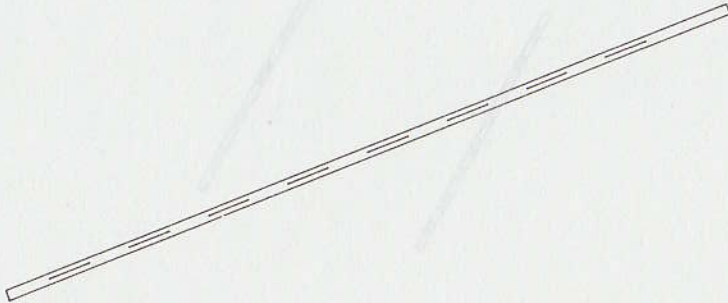
RWY 16L-34R 5700 X 100  
RWY 16R-34L 3703 X 100





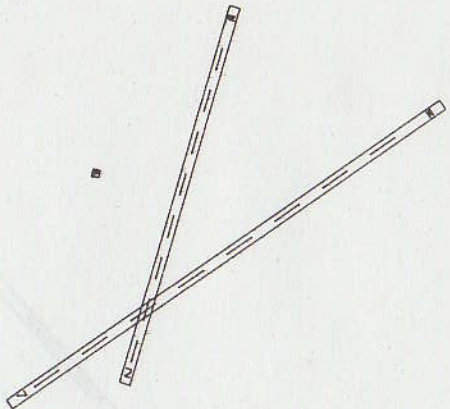
Midland, VA      Warrenton-Fauquier

16000N    19984E  
alt.    325  
  
RWY 14-32    4106 X 60  
RWY 06-24    2090 X 40



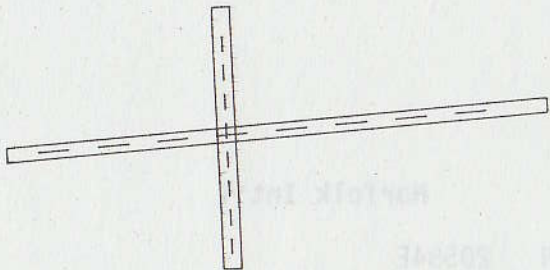
Newport News, VA      Langley AFB

15406N    20519E  
alt.    11  
  
RWY 07-25    10000 X 150



Newport News, VA      Patrick Henry Int'l    (F)

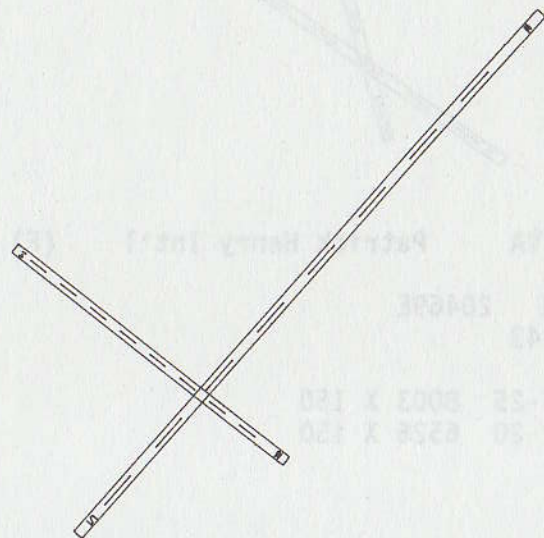
15419N    20469E  
alt.    43  
  
RWY 07-25    8003 X 150  
RWY 02-20    6526 X 150



Norfolk, VA      Chambers Field

15347N    20553E  
alt.    27  
  
RWY 01-19    4300 X 250  
RWY 10-28    8350 X 200





# Norfolk, VA      Norfolk Int'l

15333N 20584E  
alt. 27

RWY 05-23 9000 X 150  
RWY 14-32 4876 X 150

ILS 23  
Frequency 109.1  
Heading 227 degrees  
Altitude 1700 ft. @ 5.0 DME

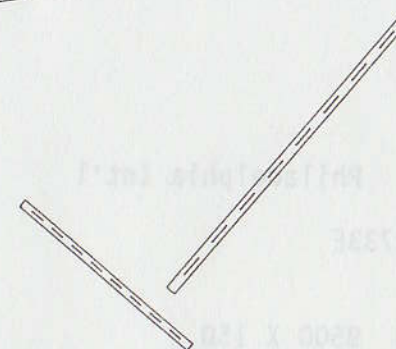


# Orange, VA

# Orange Co

15840N 19878E  
alt. 454

RWY 07-25 3200 X 75



# Petersburg, VA

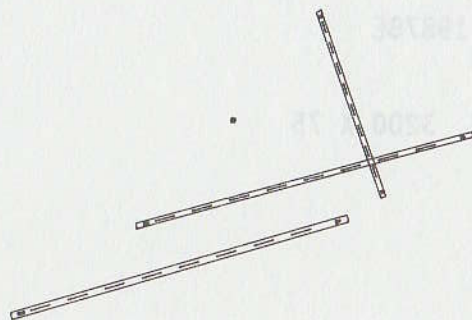
# Petersburg

# Muni

15398N 20117E  
alt. 194

RWY 05-23 5000 X 150  
RWY 14-32 3060 X 50





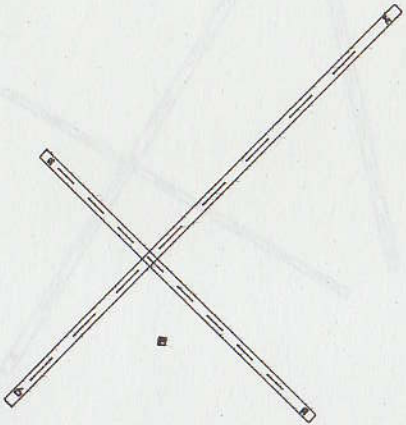
Philadelphia, PA      Philadelphia Int'l      (F)

16651N 20733E  
alt. 21

RWY 09L-27R 9500 X 150  
RWY 09R-27L 10500 X 200  
RWY 17-35 5460 X 150

ILS 9R  
Frequency: 109.3  
Heading: 85 degrees  
Altitude: 1856 ft. @ LOM

ATIS 133.40

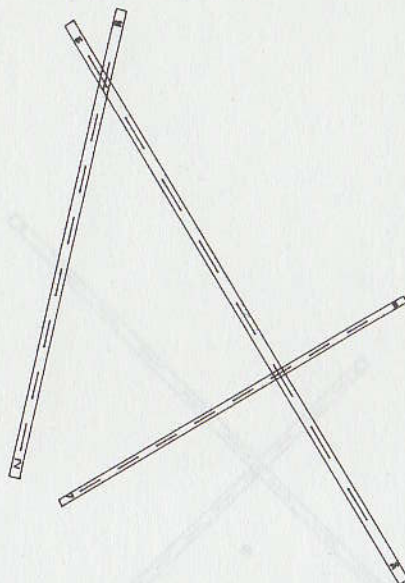


Philadelphia, PA      Northeast Philadelphia      (F)

16751N 20801E  
alt. 121

RWY 06-24 7000 X 150  
RWY 15-33 5000 X 150





Richmond, VA

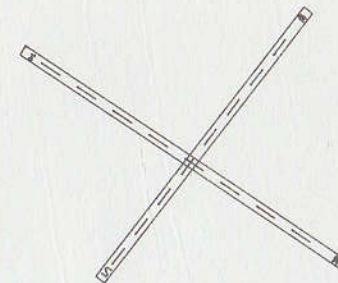
Byrd Int'l

15549N 20169E  
alt. 168

RWY 16-34 8999 X 150  
RWY 02-20 6607 X 150  
RWY 07-25 5316 X 100

ILS 16  
Frequency: 110.7  
Heading: 156 degrees  
Altitude: 2461 ft. @ LOM

ATIS 119.15



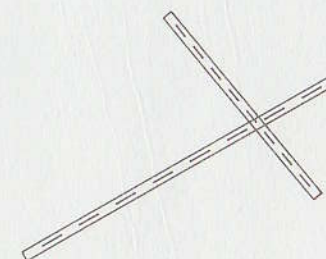
Salisbury, MD

Salisbury - Wicomico Co

15985N 20741E  
alt. 51

RWY 05-23 5000 X 150  
RWY 14-32 5500 X 150

ILS 32  
Frequency: 108.7  
Heading: 316 degrees  
Altitude: 1953 ft. @ LOM

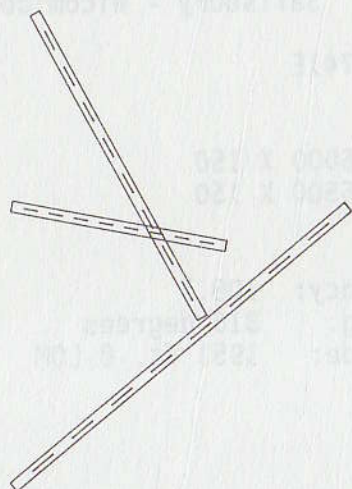


Suffolk, VA

Suffolk

15226N 20456E  
alt. 72

RWY 07-25 5000 X 100  
RWY 15-33 3250 X 150

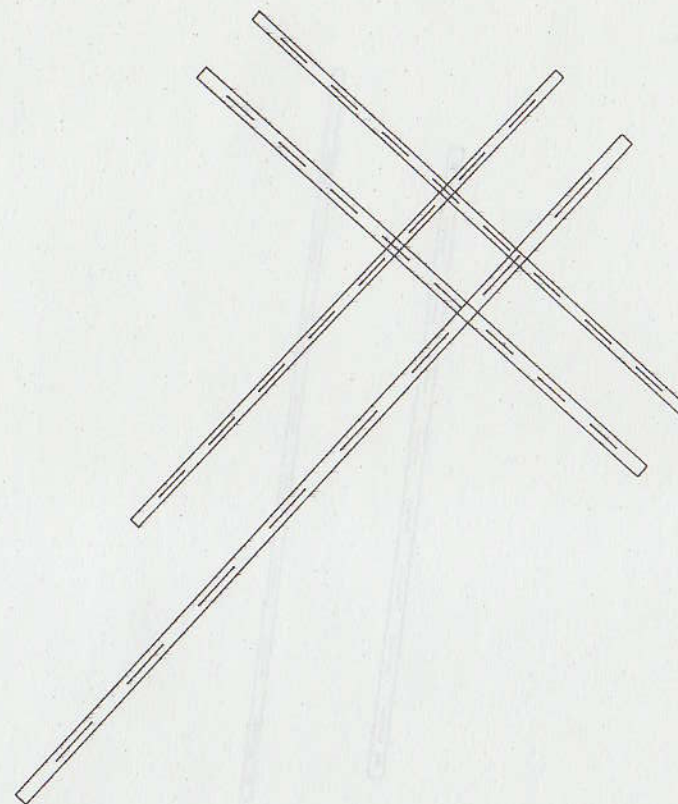


Trenton, NJ

Mercer Co.

16849N 20854E  
alt. 213

RWY 06-24 6006 X 150  
RWY 16-34 4800 X 150  
RWY 11-29 2999 X 150

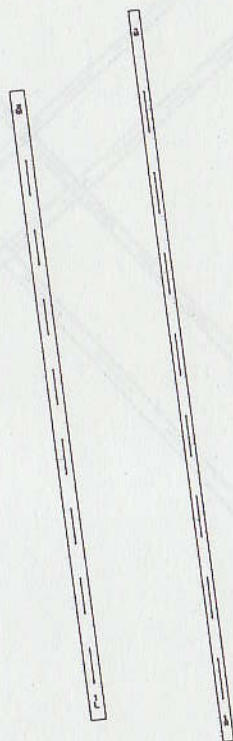


Virginia Beach, VA Oceana NAS

15307N 20649E  
alt. 22

RWY 05L-23R 8000 X 150  
RWY 05R-23L 12000 X 200  
RWY 14L-32R 8000 X 150  
RWY 14R-32L 8000 X 200



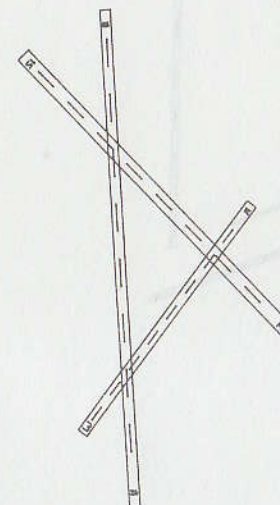


Washington, DC

Andrews AFB

16127N 20255E  
alt. 281

RWY 01L-19R 9300 X 200  
RWY 01R-19L 9755 X 150

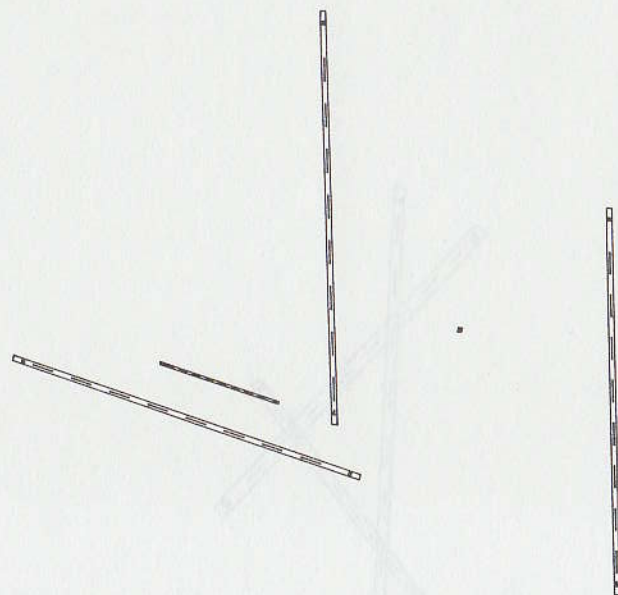


Washington, DC

Washington Nat'l

16135N 20192E  
alt. 16

RWY 03-21 4905 X 150  
RWY 15-33 5189 X 200  
RWY 18-36 6869 X 150



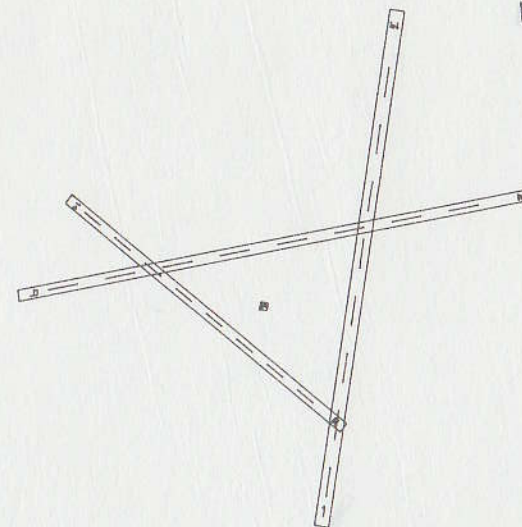
Washington, DC      Dulles Int'l      (F)

16163N    20055E  
alt.    313

RWY 01L-19R    11501 X 150  
RWY 01R-19L    11500 X 150  
RWY 11L-29R    3080 X 75  
RWY 12-30    10001 X 150

ILS    1R  
Frequency:    110.1  
Heading:    10 degrees  
Altitude:    1847 ft. @ LOM

ATIS    134.85



Wilmington, DE      Greater Wilmington - New Castle Co      (F)

16552N    20627E  
alt.    80

RWY 01-19    7002 X 200  
RWY 09-27    7165 X 150  
RWY 14-32    5004 X 150

Woodbridge, VA      Woodbridge

16058N    20109E  
alt.    276

RWY 01-19    2250 X 45



Andrews AFB (VOR)

16126N 20255E  
freq. 113.1

Armel (VOR)

16157N 20047E  
freq. 113.5

Atlantic City (VOR)

16506N 20983E  
freq. 108.6

Baltimore (VOR)

16292N 20302E  
freq. 115.1

Brooke (VOR)

15904N 20116E  
freq. 111.8

Cape Charles (VOR)

15536N 20630E  
freq. 112.2

Casanova (VOR)

16014N 19928E  
freq. 116.3

Cedar Lake (VOR)

16522N 20848E  
freq. 115.2

York, PA York

16601N 20199E  
alt. 486

RWY 16-34 4190 X 100

## Cofield (VOR)

15079N 20382E  
freq. 114.4

## Coyle (VOR)

16666N 21009E  
freq. 113.4

## Dupont (VOR)

16552N 20627E  
freq. 114

## Elizabeth City (VOR)

15053N 20629E  
freq. 112.5

## Flat Rock (VOR)

15537N 19995E  
freq. 113.3

## Franklin (VOR)

15219N 20317E  
freq. 110.6

## Frederick (VOR)

16366N 20054E  
freq. 109

## Gordonsville (VOR)

15734N 19859E  
freq. 115.6

## Hagerstown (VOR)

16469N 19881E  
freq. 109.8

## Harrisburg (VOR)

16736N 20130E  
freq. 112.5

## Hopewell (VOR)

15479N 20248E  
freq. 112

## Kenton (VOR)

16366N 20684E  
freq. 111.4

## Lancaster (VOR)

16715N 20377E  
freq. 117.3

## Lawrenceville (VOR)

15228N 20003E  
freq. 112.9

## Martinsburg (VOR)

16335N 19898E  
freq. 112.1

## Middle River (VOR)

16368N 20376E  
freq. 116.6



## Modena (VOR)

16652N 20592E  
freq. 113.2

## Norfolk (VOR)

15332N 20585E  
freq. 116.9

## Patuxent (VOR)

15922N 20440E  
freq. 117.6

## Pottstown (VOR)

16787N 20612E  
freq. 116.5

## Richmond (VOR)

15549N 20169E  
freq. 114.1

## Salisbury (VOR)

15987N 20738E  
freq. 114.5

## Sea Isle (VOR)

16339N 20931E  
freq. 114.8

## Shawnee (VOR)

16220N 19811E  
freq. 115.3

## Tar River (VOR)

14849N 20142E  
freq. 117.8

## Washington (VOR)

16139N 20194E  
freq. 111

## Waterloo (VOR)

16199N 20810E  
freq. 112.6

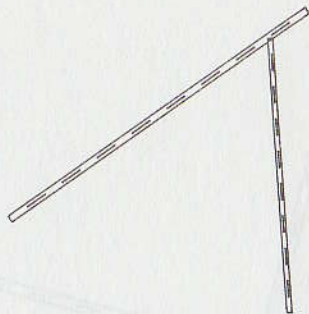
## Westminster (VOR)

16416N 20182E  
freq. 117.9

## Woodstown (VOR)

16548N 20731E  
freq. 112.8

CHARLOTTE - 1



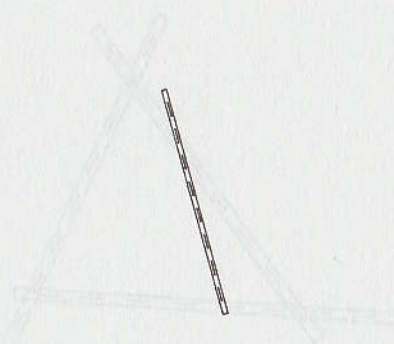
Aiken, SC

Aiken Muni

13724N 18819E  
alt. 529

RWY 06-24 5000 X 100  
RWY 18-36 3800 X 75

Aiken, SC  
Aiken Muni  
13724N 18819E  
alt. 529  
RWY 06-24 5000 X 100  
RWY 18-36 3800 X 75



Allendale, SC

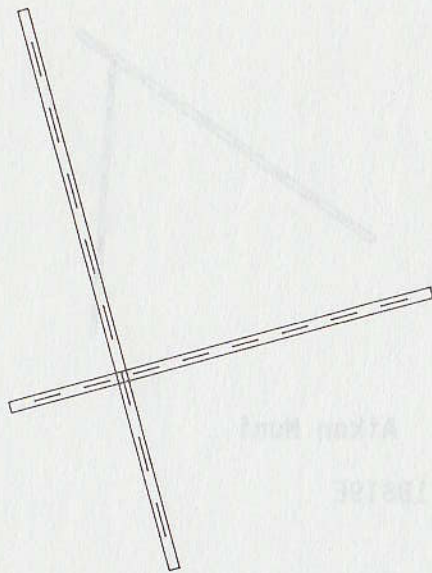
Allendale Co

13454N 18991E  
alt. 160

RWY 17-35 3200 X 75

Allendale, SC  
Allendale Co  
13454N 18991E  
alt. 160  
RWY 17-35 3200 X 75



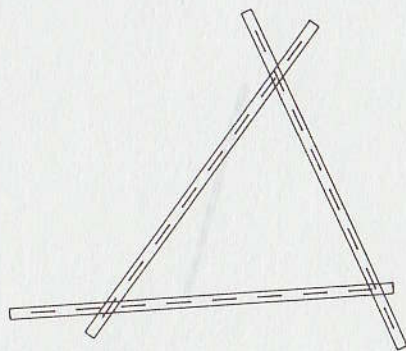


Augusta, GA

Bush Field

13599N 18729E  
alt. 145

RWY 08-26 6001 X 150  
RWY 17-35 8000 X 150

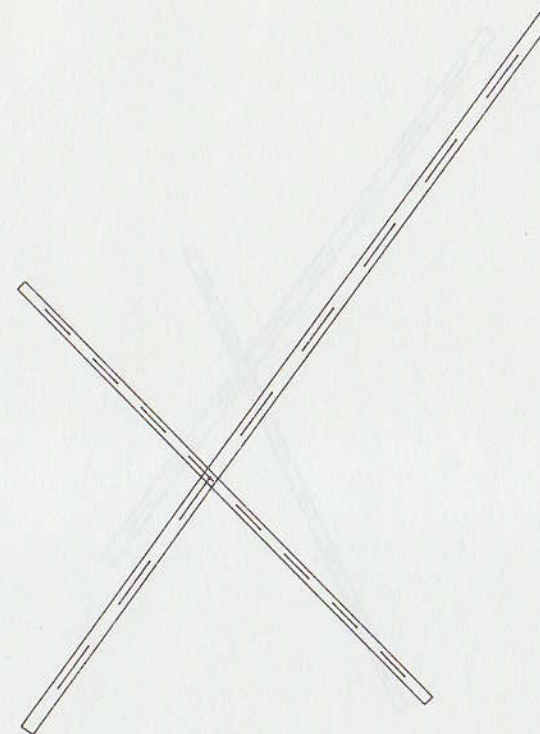


Barnwell, SC

Barnwell Co

13564N 18937E  
alt. 246

RWY 04-22 5272 X 100  
RWY 16-34 5118 X 100

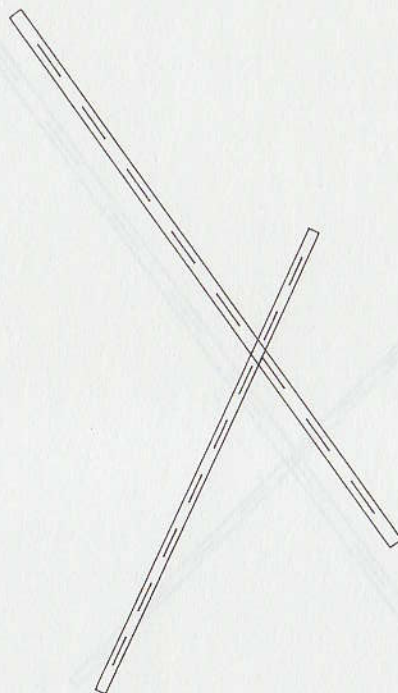


Beaufort, SC

MCAS Beaufort

13248N 19211E  
alt. 38

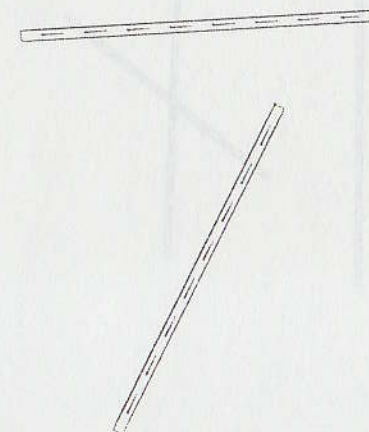
RWY 04-22 12200 X 200  
RWY 14-32 8000 X 200



Charleston, SC Charleston AFB/Int'l

13448N 19417E  
alt. 46

RWY 03-21 7000 X 150  
RWY 15-33 9001 X 200

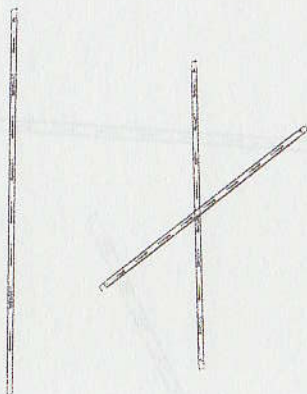


Charleston, SC Charleston Executive

13366N 19462E  
alt. 20

RWY 03-21 5000 X 150  
RWY 09-27 5000 X 150





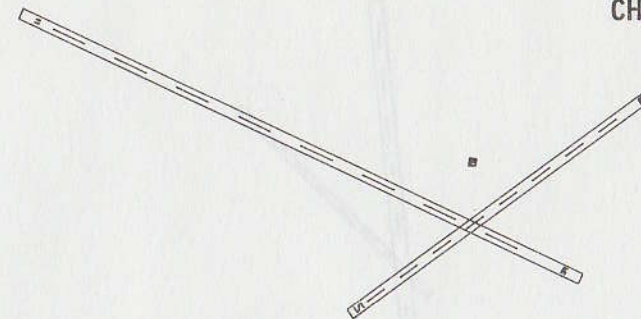
## Charlotte, NC Charlotte / Douglas Int'l (F)

14427N 19030E  
alt. 749

RWY 05-23 7501 X 150  
RWY 18L-36R 7845 X 150  
RWY 18R-36L 10000 X 150

ILS 5  
Frequency: 109.5  
Heading: 52 degrees  
Altitude: 2087 ft. @ LOM

ATIS 121.15



## Columbia, SC Columbia Metro (F)

13876N 19005E  
alt. 236

RWY 05-23 5001 X 150  
RWY 11-29 8600 X 150

ATIS 120.15

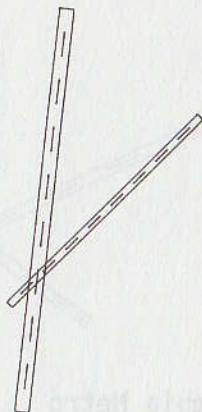


## Columbia, SC Conway - Horry Co

13881N 19735E  
alt. 35

RWY 04-22 3710 X 60

# 8 - CHARLOTTE

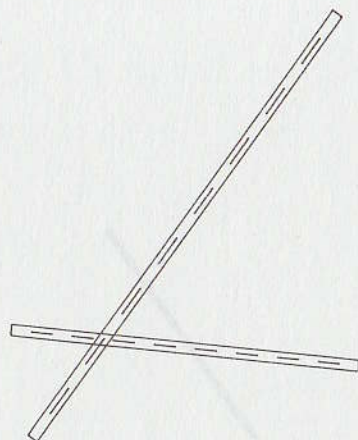


Edenton, NC

Edenton Muni

14940N 20524E  
alt. 19

RWY 01-19 5600 X 200  
RWY 05-23 3700 X 100

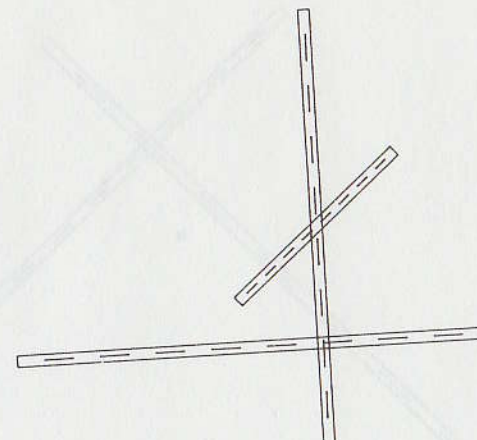


Fayetteville, NC Fayetteville Muni / Grannis Fld

14386N 19769E  
alt. 190

RWY 04-22 7204 X 150  
RWY 10-28 4802 X 150

# CHARLOTTE - 9

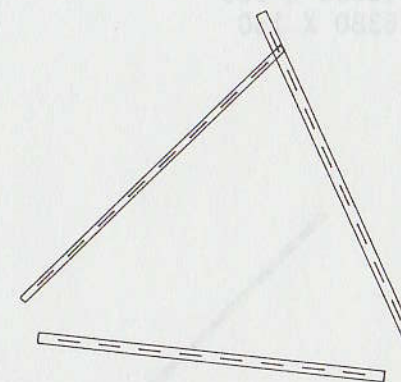


Florence, SC

Florence City-Co

14008N 19501E  
alt. 147

RWY 09-27 6498 X 150  
RWY 18-36 6001 X 150  
RWY 05-23 2992 X 150



Georgetown, SC

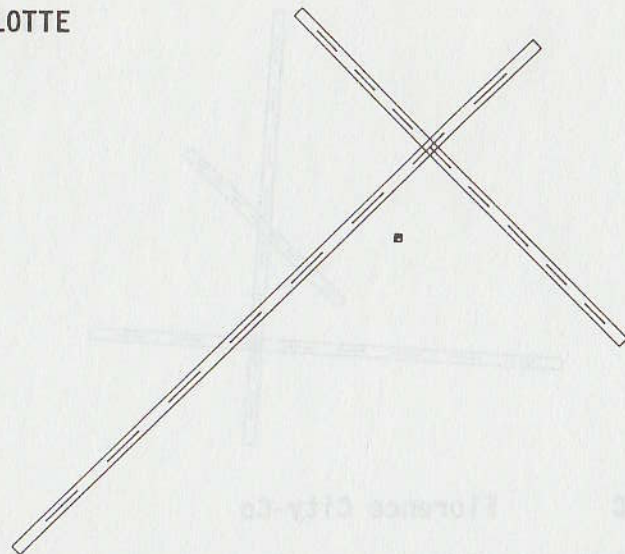
Georgetown Co

13653N 19685E  
alt. 39

RWY 05-23 5000 X 100  
RWY 16-34 4930 X 150  
RWY 10-28 4800 X 150



# 10 - CHARLOTTE



Greensboro, NC Greensboro - High Point-Winston Salem Reg'l

(F)

14829N 19358E  
alt. 926

RWY 05-23 10000 X 150  
RWY 14-32 6380 X 150

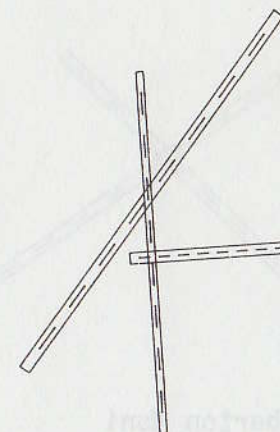


Kingstree, SC Williamsburg Co

13807N 19474E  
alt. 68

RWY 14-32 3700 X 75

# CHARLOTTE - 11

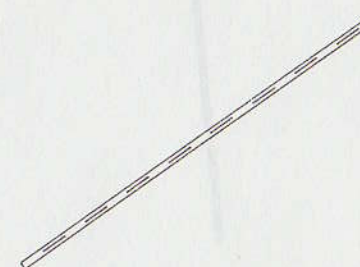


Kinston, NC

Eastern Regional

14589N 20196E  
alt. 94

RWY 04-22 6000 X 150  
RWY 18-36 5000 X 100  
RWY 09-27 2280 X 150

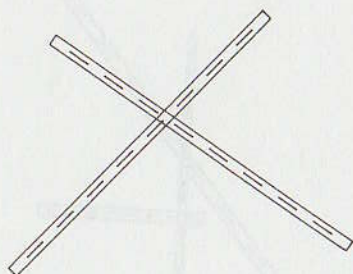


Lancaster, SC

Lancaster Co

14208N 19069E  
alt. 486

RWY 06-24 6000 X 100



Lumberton, NC

Lumberton Muni

14214N 19717E  
alt. 126

RWY 05-23 5000 X 150  
RWY 13-31 5000 X 150

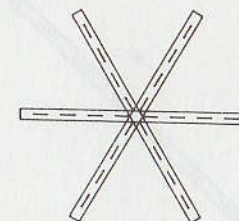


Manning, SC

Clarendon Co

13742N 19353E  
alt. 104

RWY 01-19 3600 X 75



Manteo, NC

Dare Co

14923N 20819E  
alt. 13

RWY 04-22 3300 X 150  
RWY 16-34 3290 X 150  
RWY 10-28 3180 X 150

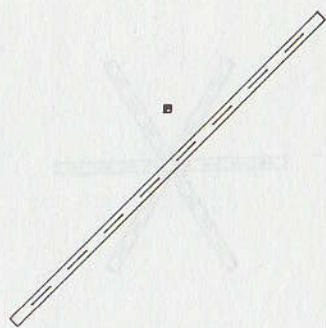
Mocksville, NC

Twin Lakes

14733N 19180E  
alt. 820

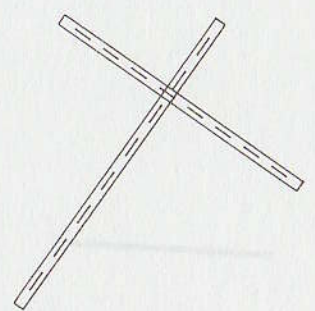
RWY 09-27 2950 X 50





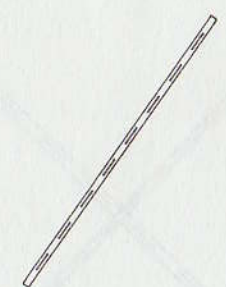
N Myrtle Beach, SC Grand Strand (F)

13885N 19876E  
alt. 33  
RWY 05-23 5996 X 100



New Bern, NC Simmons-Nott

14484N 20415E  
alt. 19  
RWY 04-22 4804 X 150  
RWY 13-31 4000 X 150



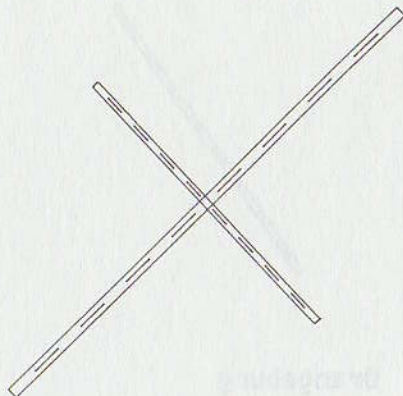
Orangeburg, SC Orangeburg

13666N 19124E  
alt. 197  
RWY 04-22 4500 X 100



Plymouth, NC Plymouth Muni

14827N 20475E  
alt. 39  
RWY 02-20 3700 X 75



Raleigh, NC

Raleigh-Durham (F)

14765N 19769E  
alt. 437

RWY 05R-23L 7500 X 150  
RWY 14-32 4498 X 100

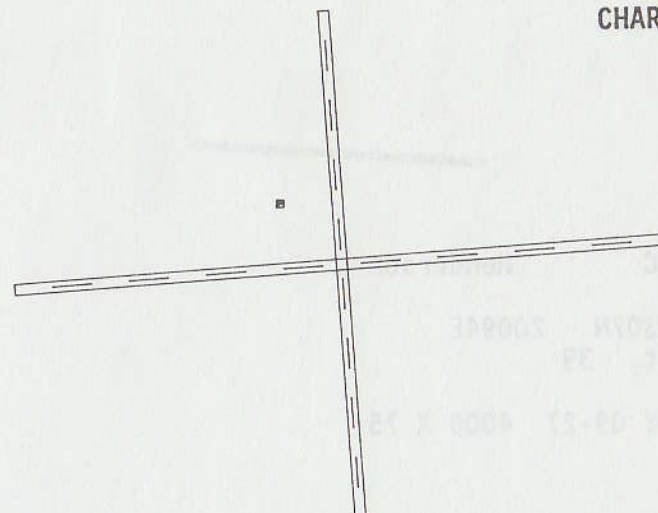


Salisbury, NC

Rowan Co

14613N 19151E  
alt. 771

RWY 02-20 4200 X 100  
RWY 11-29 1900 X 100

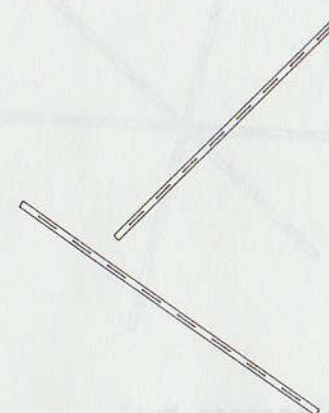


Savannah, GA

Savannah Int'l (F)

13078N 19032E  
alt. 51

RWY 09-27 9003 X 150  
RWY 18-36 7001 X 150



Statesboro, GA

Statesboro Muni

13224N 18838E  
alt. 187

RWY 14-32 5000 X 100  
RWY 05-23 4381 X 100

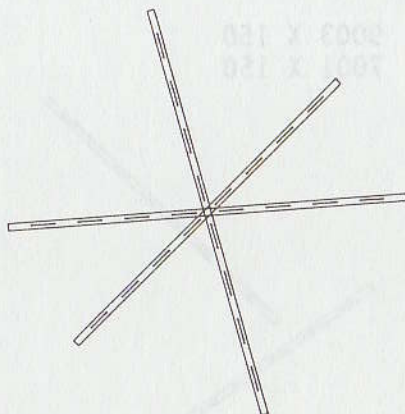




Wallace, NC Henderson

14307N 20094E  
alt. 39

RWY 09-27 4000 X 75



Walterboro, SC Walterboro Muni

13441N 19222E  
alt. 98

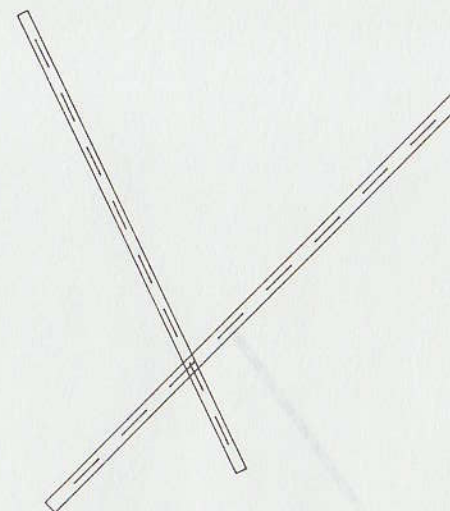
RWY 17-35 5700 X 100  
RWY 09-27 5500 X 100  
RWY 05-23 5150 X 100



Whiteville, NC Columbus Co

14081N 19853E  
alt. 90

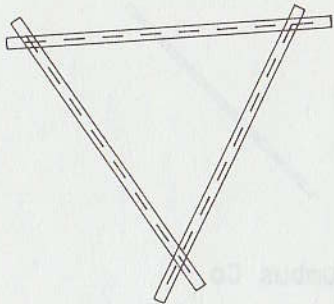
RWY 05-23 3700 X 75



Wilmington, NC New Hanover Co

14108N 20146E  
alt. 32

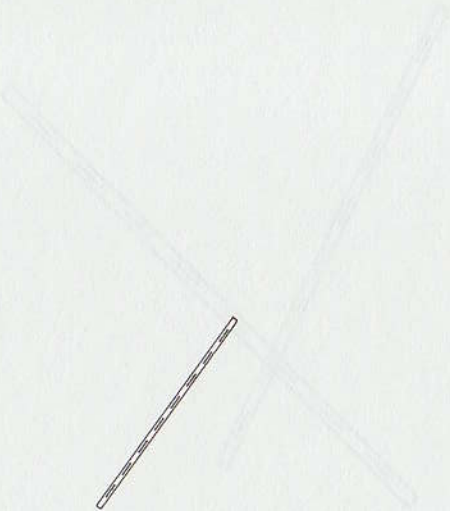
RWY 05-23 7999 X 200  
RWY 16-34 7002 X 150



Wilson, NC      Wilson Muni

14748N    20059E  
alt.   161

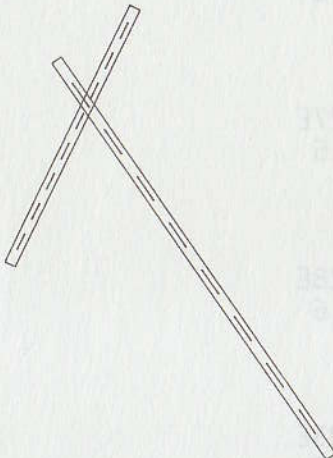
RWY 03-21    4500 X 150  
RWY 09-27    4500 X 150  
RWY 15-33    4500 X 150



Winnsboro, SC      Fairfield Co

14019N    18983E  
alt.   574

RWY 04-22    3200 X 75



Winston Salem, NC    Smith Reynolds

14839N    19258E  
alt.   970

RWY 15-33    6655 X 150  
RWY 03-21    3938 X 150



## 22 - CHARLOTTE

### Allendale (VOR)

13467N 18967E  
freq. 116.7

### Barretts Mountain (VOR)

14703N 18907E  
freq. 110.8

### Charleston (VOR)

13449N 19427E  
freq. 113.5

### Charlotte (VOR)

14423N 19028E  
freq. 110.6

### Chesterfield (VOR)

14201N 19283E  
freq. 108.2

### Columbia (VOR)

13837N 19030E  
freq. 114.7

### Fayetteville (VOR)

14385N 19771E  
freq. 108.8

### Florence (VOR)

14038N 19518E  
freq. 115.2

## CHARLOTTE - 23

### Fort Mill (VOR)

14330N 19033E  
freq. 112.4

### Grand Strand (VOR)

13886N 19869E  
freq. 117.6

### Greensboro (VOR)

14810N 19345E  
freq. 116.2

### Kinston (VOR)

14612N 20214E  
freq. 109.6

### New Bern (VOR)

14484N 20413E  
freq. 113.6

### Raleigh - Durham (VOR)

14766N 19770E  
freq. 117.2

### Sandhills (VOR)

14462N 19509E  
freq. 111.8

### Savannah (VOR)

13103N 19057E  
freq. 112.7

24 - CHARLOTTE

Tar River (VOR)

14849N 20142E  
freq. 117.8

Vance (VOR)

13688N 19259E  
freq. 110.4

Wilmington (VOR)

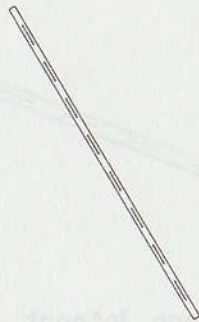
14145N 20151E  
freq. 117

Wright Brothers (VOR)

14900N 20845E  
freq. 111.6



JACKSONVILLE - 1

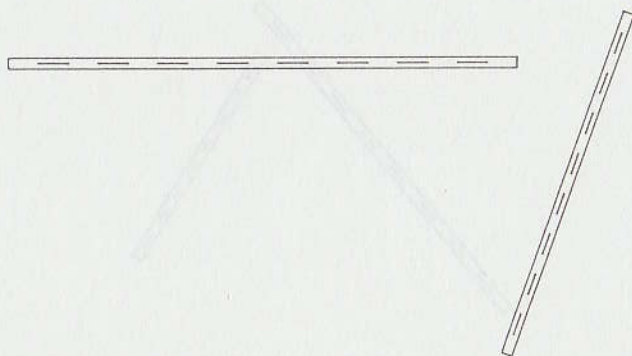


Alma

Bacon Co.

12789N 18598E  
alt. 201

RWY 15-33 5000 x 100

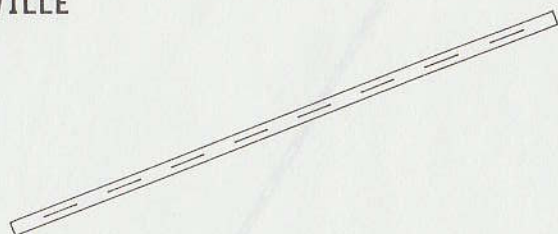


Brooksville Hernando Co

11461N 18702E  
alt. 76

RWY 9-27 7000 x 150  
RWY 2-20 5000 x 150

# 2 - JACKSONVILLE

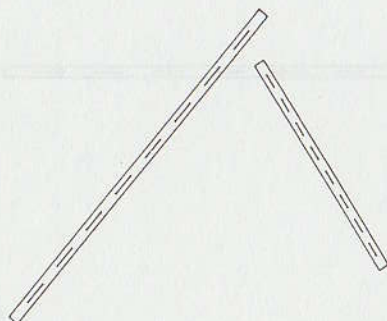


Brunswick

Glynco Jetport

12696N 18990E  
alt. 26

RWY 7-25 8001 X 150



Brunswick

Malcom McKinnon

12650N 19020E  
alt. 20

RWY 4-22 5421 x 150  
RWY 15-33 3313 x 100

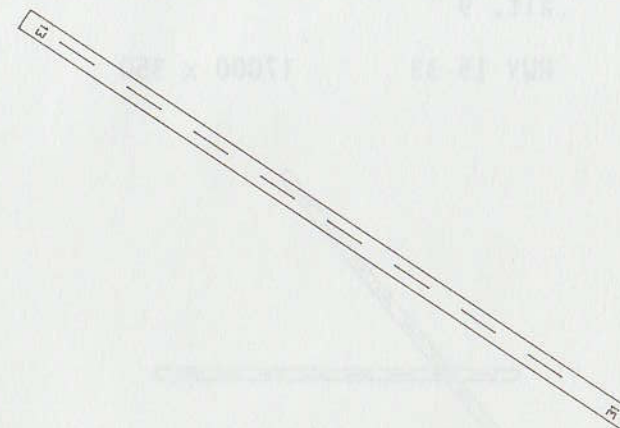
# JACKSONVILLE - 3



Camilla - Mitchell Co

12610N 17964E  
alt. 171

RWY 8-26 3200 x 60



Cape Canaveral

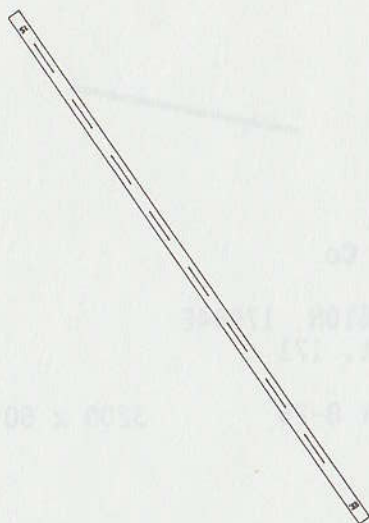
Cape Canaveral Skid Pad

11519N 19408E  
alt. 10

RWY 13-31 10000 x 300



# 4 - JACKSONVILLE

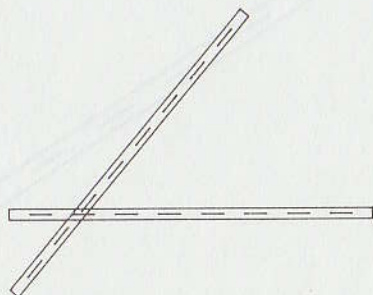


## Cape Canaveral

### Shuttle Landing Facility

11578N 19355E  
alt. 9

RWY 15-33 17000 x 350



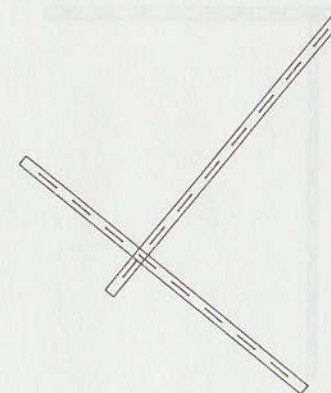
## Cordele

### Crisp Co - Cordelle

12957N 18119E  
alt. 308

RWY 4-22 5000 x 100  
RWY 9-27 5000 x 100

# JACKSONVILLE - 5

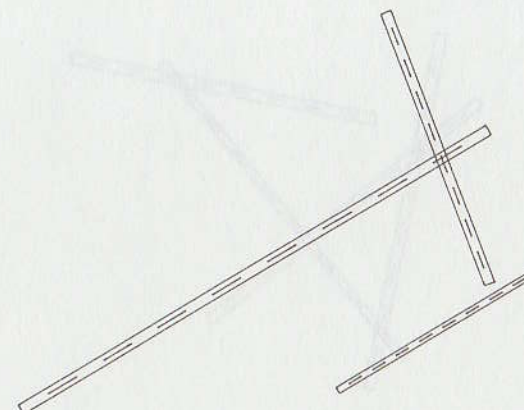


## Cross City

## Cross City

11950N 18425E  
alt. 42

RWY 4-22 5000 x 150  
RWY 13-31 5000 x 150

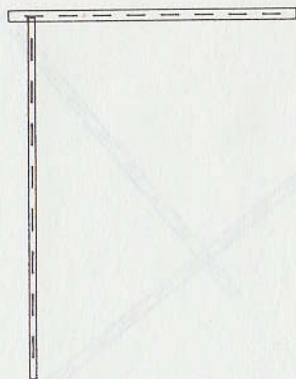


## Daytona Beach

## Daytona Beach Regional

11808N 19210E  
alt. 35

RWY 6L-24R 7500 x 150  
RWY 16-34 4000 x 150  
RWY 6R-24L 3197 x 100

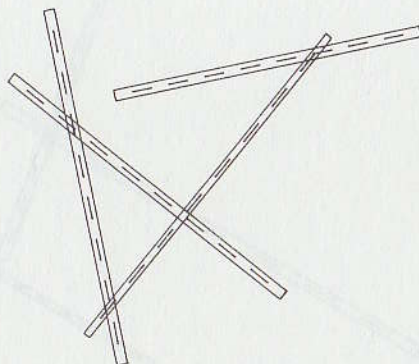


Donalsonville

Donalsonville Muni

12511N 17733E  
alt. 160

RWY 18-36	5000 x 100
RWY 9-27	4000 x 150



Fernandina Beach

Fernandina Beach Muni

12414N 19014E  
alt. 15

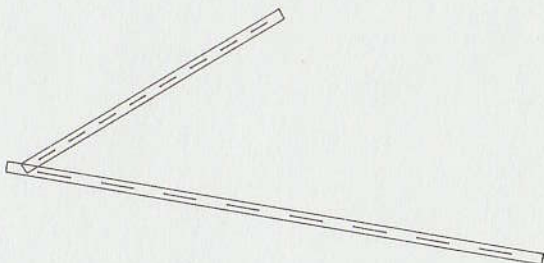
RWY 4-22	5350 x 100
RWY 13-31	5150 x 150
RWY 8-26	5000 x 150
RWY 17-35	5000 x 150



Fitzgerald Fitzgerald Muni

12838N 18314E  
alt. 365

RWY 1-19	5000 x 100
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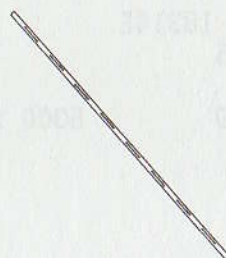
Gainesville

Gainesville Regional

11993N 18737E  
alt. 152

RWY 10-28	7503 x 150
RWY 6-24	4147 x 100



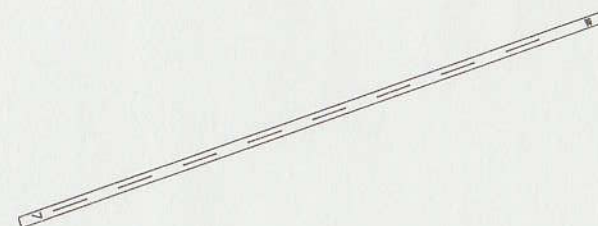


Hazelhurst

Hazelhurst

12937N 18537E  
alt. 255

RWY 14-32      4500 x 75



Jacksonville

Jacksonville Intl (F)

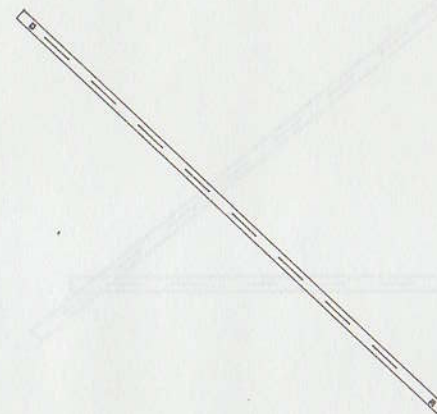
12356N 18931E  
alt. 30

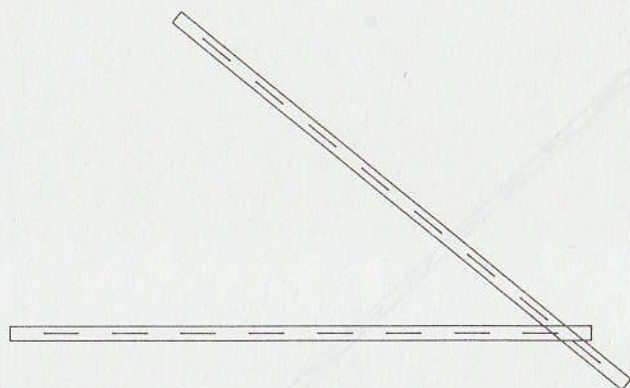
RWY 7-25      8000 x 150  
RWY 13-31      7700 x 150

ATIS:      125.85

ILS 13

FREQUENCY:      108.9  
HEADING:      134  
ALTITUDE:      1629 ft @ LOM



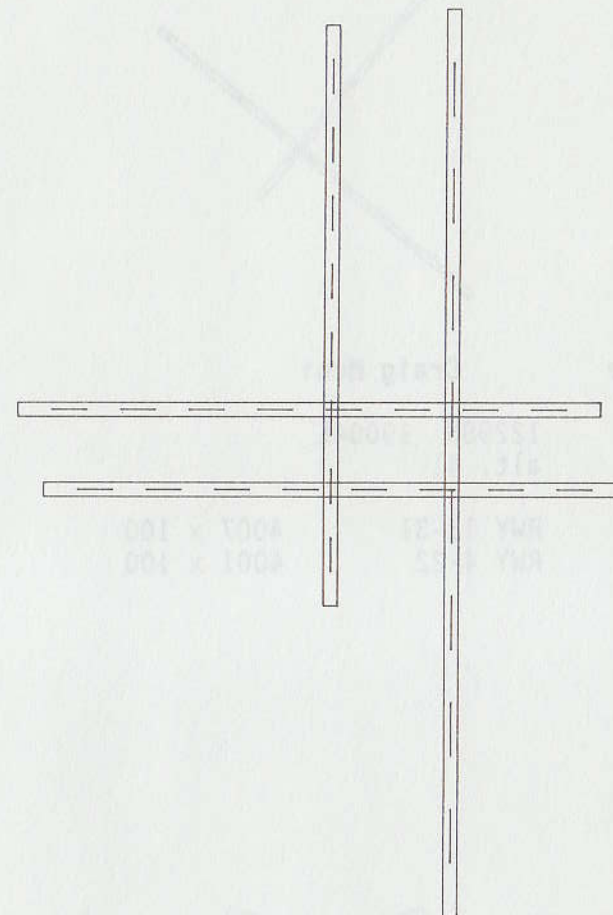


Jacksonville

Jacksonville NAS

12247N 18942E  
alt. 22

RWY 9-27	8000 x 200
RWY 13-31	5977 x 200



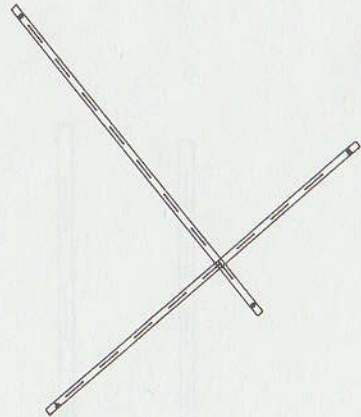
Jacksonville

Cecil Field NAS

12238N 18861E  
alt. 80

RWY 18L-36R	12500 x 200
RWY 9L-27R	8000 x 200
RWY 9R-27L	8000 x 200
RWY 18R-36L	8000 x 200

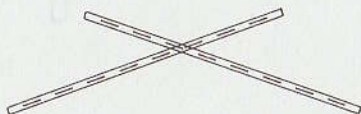




Jacksonville      Craig Muni

12298N 19004E  
alt. 41

RWY 13-31	4007 x 100
RWY 4-22	4001 x 100



Jacksonville      Herlong

12260N 18892E  
alt. 87

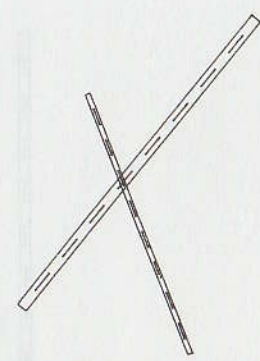
RWY 7-25	4000 x 100
RWY 11-29	4000 x 100



Jesup - Wayne Co.

12809N 18828E  
alt. 108

RWY 10-28	3800 x 75
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Moultrie      Moultrie Muni

12564N 18129E  
alt. 294

RWY 4-22	5127 x 150
RWY 16-34	3878 x 75

Moultrie

Spence

12591N 18166E  
alt. 292

RWY 14-32      8000 x 150



Ocala Muni (Taylor Fld)

11773N 18769E  
alt. 90

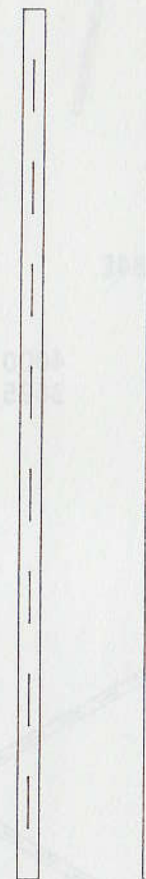
RWY 18-36      5007 x 150  
RWY 8-26      3009 x 50

Orlando

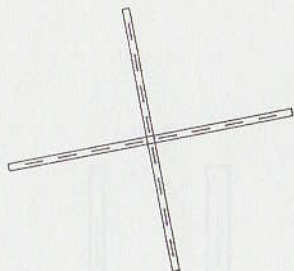
Orlando Int'l

11466N 19139E  
alt. 96

RWY 18R-36L      12004 x 300  
RWY 18L-36R      12004 x 200



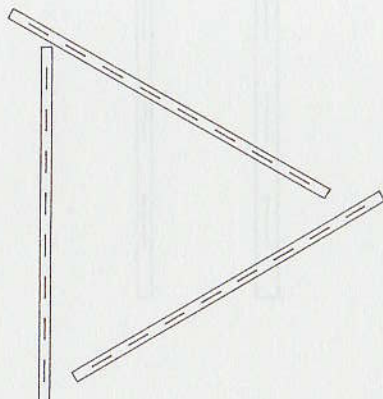




## Ormond Beach Muni

11857N 19184E  
alt. 29

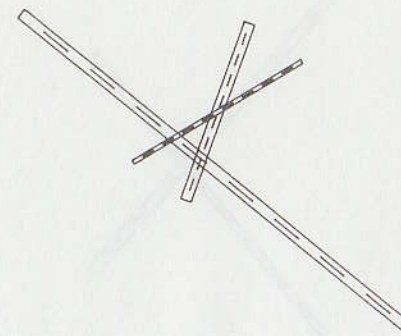
RWY 8-26      4000 x 100  
RWY 17-35     3695 x 100



## Perry - Foley

12132N 18237E  
alt. 45

RWY 12-30      5013 x 150  
RWY 6-24       4900 x 150  
RWY 18-36     4900 x 150



## St Augustine

12137N 19080E  
alt. 10

RWY 6947 x 150  
RWY 2600 x 75  
RWY 2700 x 60

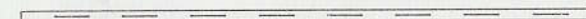


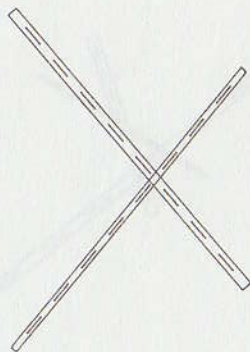
## Tallahassee

## Tallahassee Muni (F)

12257N 17942E  
alt. 81

RWY 9R-27L      8000 x 150  
RWY 18-36       6066 x 150  
RWY 9L-27R      3328 x 100



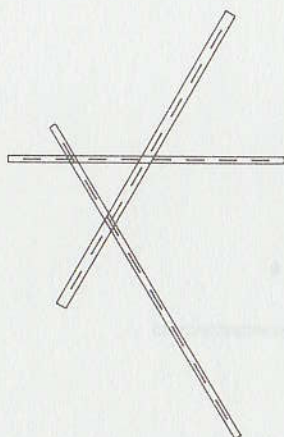


Thomasville

Thomasville Muni

12483N 18102E  
alt. 264

RWY 4-22	5000 x 100
RWY 14-32	5000 x 150

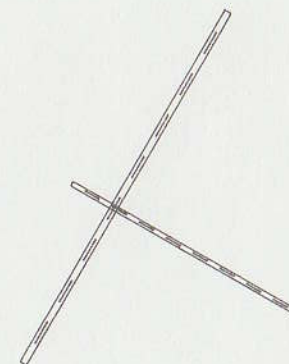


Tifton

Henry Tift Myers

12712N 18239E  
alt. 355

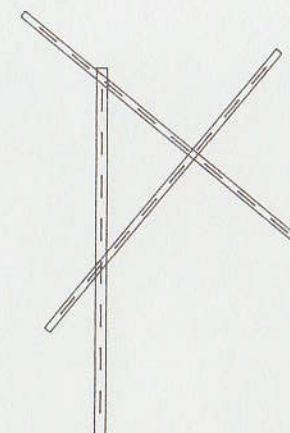
RWY 15-33	4994 x 120
RWY 9-27	3805 x 95
RWY 3-21	3389 x 75



Valdosta Regional

12446N 18332E  
alt. 204

RWY 17-35	6302 x 150
RWY 3-21	5596 x 100
RWY 12-30	3628 x 75



Waycross-Ware Co

12667N 18645E  
alt. 142

RWY 18-36	5042 x 150
RWY 13-31	5012 x 100
RWY 4-22	5035 x 100



## 20 - JACKSONVILLE

## Alma (VOR)

12788N 18591E  
freq. 115.1

## Brooksville (NDB)

11463N 18701E  
freq. 278

## Brunswick (VOR)

12606N 19005E  
freq. 109.8

## Caidy (NDB)

12472N 18003E  
freq. 338

## Camilla (NDB)

12610N 17965E  
freq. 369

## Cape Canaveral (NDB)

11515N 19429E  
freq. 313

## Cross City (VOR)

11933N 18447E  
freq. 112

## Deland (NDB)

11753N 19131E  
freq. 201

## JACKSONVILLE - 21

## Dinns (NDB)

12343N 18890E  
freq. 344

## Donalsonville (NDB)

12512N 17735E  
freq. 352

## Gainesville (VOR)

11939N 18706E  
freq. 116.2

## Geiger Lake (NDB)

11562N 19315E  
freq. 375

## Herlong (NDB)

12261N 18893E  
freq. 332

## Homerville (NDB)

12576N 18511E  
freq. 209

## Jacksonville (VOR)

12299N 19003E  
freq. 114.5

## Kissimmee (NDB)

11415N 19099E  
freq. 329

## 22 - JACKSONVILLE

## Lakeland (VOR)

11251N 18885E  
freq. 116

## Leesburg (NDB)

11631N 18934E  
freq. 335

## Melbourne (VOR)

11358N 19399E  
freq. 110

## Ocala (VOR)

11773N 18768E  
freq. 113.7

## Orlando (VOR)

11527N 19127E  
freq. 112.2

## Ormond Beach (VOR)

11859N 19185E  
freq. 112.6

## Patten (NDB)

12510N 18123E  
freq. 245

## Sanford (NDB)

11629N 19156E  
freq. 408

## JACKSONVILLE - 23

## Satellite (NDB)

11355N 19383E  
freq. 257

## Savannah (VOR)

13103N 19057E  
freq. 112.7

## St Augustine (VOR)

12140N 19073E  
freq. 109.4

## St Johns (NDB)

12322N 19045E  
freq. 306

## St. Petersburg (VOR)

11203N 18631E  
freq. 116.4

## Tallahassee (VOR)

12326N 17928E  
freq. 117.5

## Taylor (VOR)

12340N 18607E  
freq. 112.9

## Taylor (VOR)

12342N 18605E  
freq. 112.9



## 24 - JACKSONVILLE

### Tift Myers (VOR)

12712N 18235E  
freq. 112.5

### Valdosta (VOR)

12402N 18332E  
freq. 110.4

### Vidalia (NDB)

13076N 18622E  
freq. 372

### Wakul (NDB)

12227N 17938E  
freq. 379

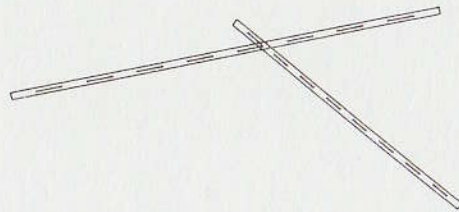
### Waycross (VOR)

12672N 18581E  
freq. 110.2

### Wynds (NDB)

11986N 18777E  
freq. 269

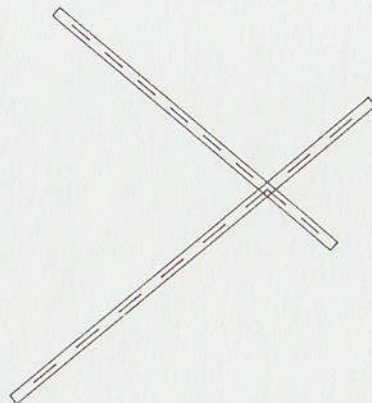
MIAMI - 1



Ft Lauderdale, Ft Lauderdale Exec

10532N 19650E  
alt. 14

RWY 8-26	6001 x 100
RWY 13-31	3999 x 100

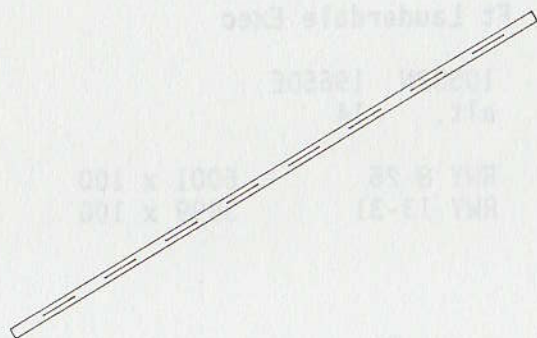


Ft Myers, Page Fld

10651N 18984E  
alt. 18

RWY 5-23	6401 x 150
RWY 13-31	4997 x 150

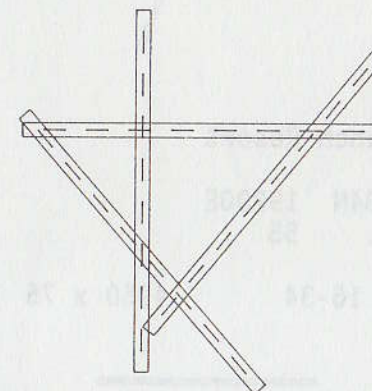




## Ft Myers, SW Florida Regional

10634N 19027E  
alt. 31

RWY 6-24 8400 x 150



## Ft Pierce, St Lucie Co Intl

11083N 19528E  
alt. 24

RWY 9-27	5000 x 200
RWY 4-22	5000 x 200
RWY 14-32	5000 x 100
RWY 18-36	5000 x 200



## Frostproof, River Ranch Resort

11184N 19200E  
alt. 55

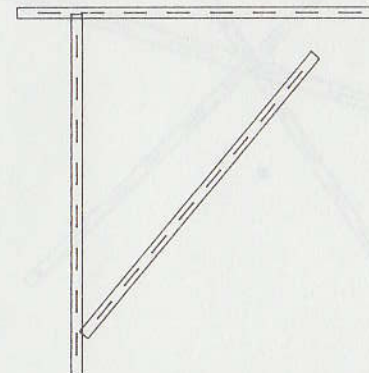
RWY 16-34 4950 x 75



## Homestead General

10223N 19528E  
alt. 9

RWY 18-36 4000 x 100  
RWY 9-27 3000 x 75



## Immokalee, Immokalee

10599N 19167E  
alt. 37

RWY 4-22 5000 x 150  
RWY 9-27 5000 x 150  
RWY 18-36 5000 x 150



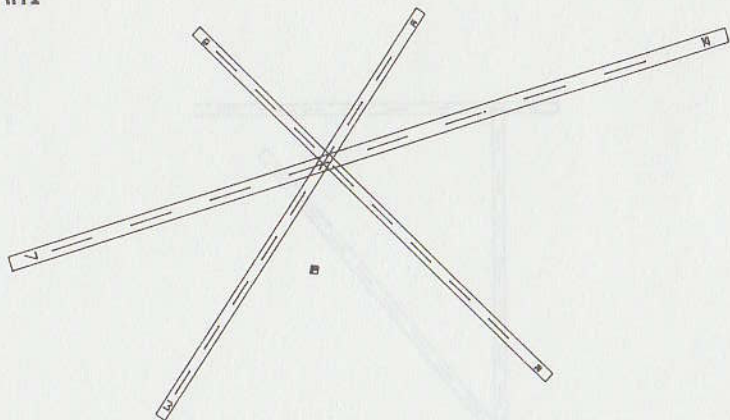
## Key West, Key West Intl

9779N 19085E  
alt. 4

RWY 9-27 4800 x 100



6 - MIAMI



Key West, NAS Key West (F)

9790N 19114E  
alt. 6

RWY 7-25	10000 x 200
RWY 3-21	7000 x 150
RWY 13-31	7000 x 150

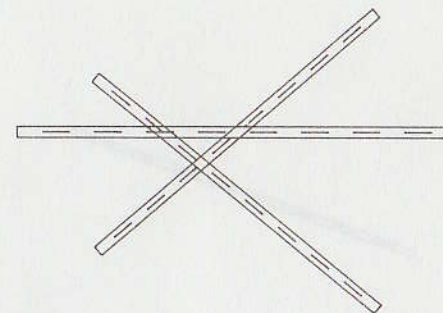


La Belle, La Belle

10732N 19147E  
alt. 18

RWY 14-32 3810 x 50

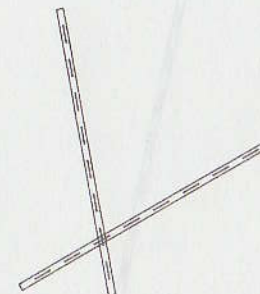
MIAMI - 7



Lakeland, Lakeland Muni

11254N 18885E  
alt. 142

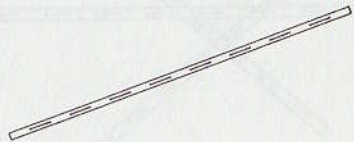
RWY 9-27	6000 x 150
RWY 13-31	5002 x 150
RWY 5-23	5000 x 150



Lake Wales, Lake Wales Muni

11220N 19039E  
alt. 125

RWY 6-24	4000 x 100
RWY 17-35	4000 x 100



Marathon

9873N 19356E  
alt. 6

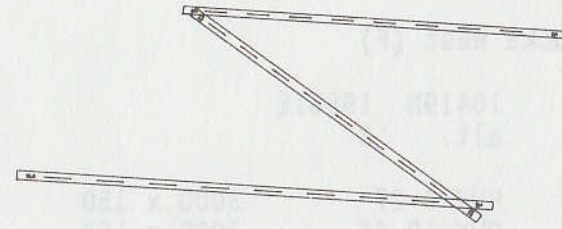
RWY 7-25 5000 x 100



Marco Island, Marco

10402N 19075E  
alt. 6

RWY 17-35 5008 x 100



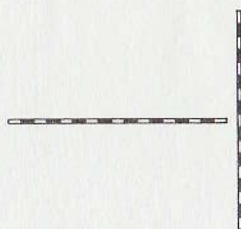
Miami, Miami Intl (F)

10357N 19615E  
alt. 10

RWY 9R-27L 13002 x 150  
RWY 9L-27R 10502 x 200  
RWY 12-30 9601 x 150

ILS 27R  
FREQUENCY: 109.1  
HEADING: 270  
ALTITUDE: 1369 ft. @ LOM

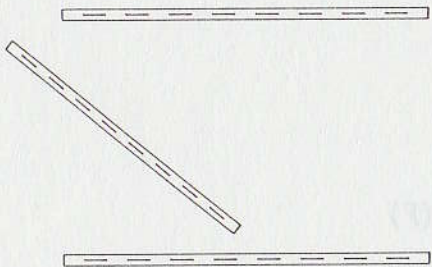




Miami, Opa Locka West (F)

10419N 19561E  
alt. 8

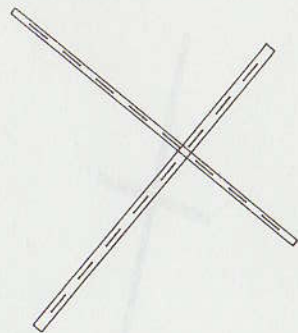
RWY 9-27 3000 x 150  
RWY 18-36 3000 x 150



Miami, Tamiami

10288N 19569E  
alt. 10

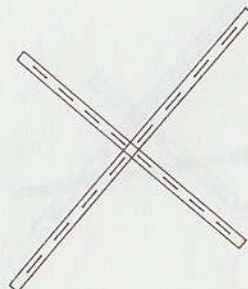
RWY 9L-27R 5002 x 150  
RWY 9R-27L 4999 x 150  
RWY 13-31 4001 x 150



Naples, Naples Muni

10468N 19028E  
alt. 9

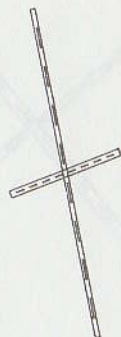
RWY 4-22 5000 x 150  
RWY 13-31 5000 x 100



Okeechobee, Okeechobee Co

10970N 19354E  
alt. 34

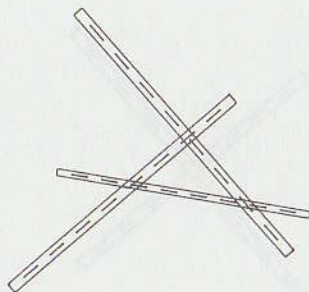
RWY 4-22 5000 x 150  
RWY 13-31 4000 x 100



## Pahokee, Palm Beach Co Glades

10770N 19429E  
alt. 17

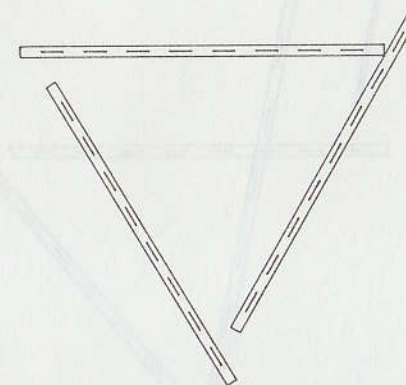
RWY 17-35 4620 x 75  
RWY 7-25 1617 x 100



## Pompano Beach, Pompano Beach Airpark

10558N 19674E  
alt. 20

RWY 14-32 4420 x 150  
RWY 5-23 4000 x 150  
RWY 10-28 3500 x 100

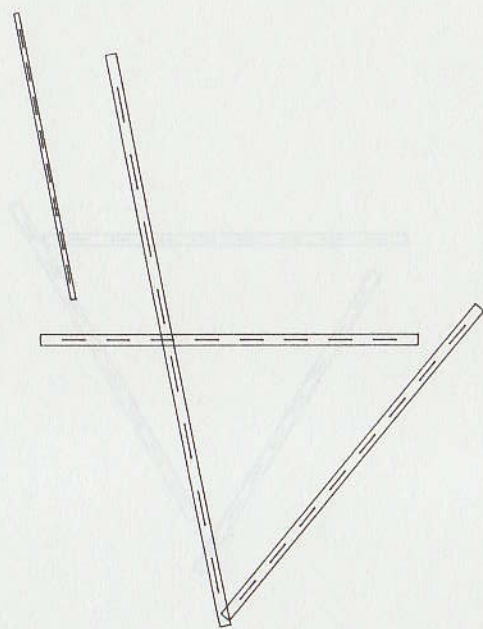


## Punta Gorda, Charlotte Co

10791N 18922E  
alt. 25

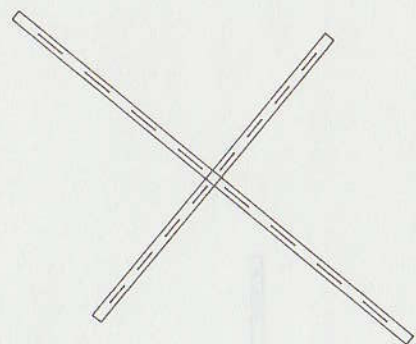
RWY 3-21 5000 x 150  
RWY 9-27 5000 x 150  
RWY 15-33 4800 x 150





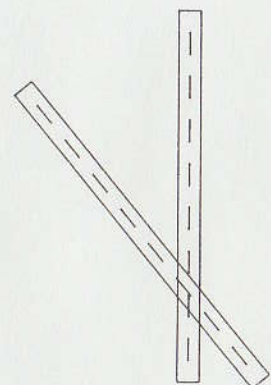
St Petersburg-Clearwater Intl

11205N	18630E
alt.	11
RWY 17L-35R	7989 x 150
RWY 4-22	5500 x 150
RWY 9-27	5165 x 150
RWY 17R-35L	4000 x 75



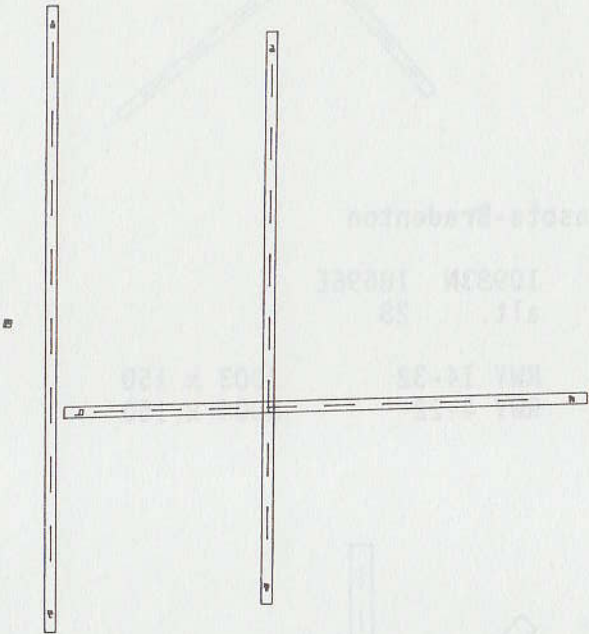
Sarasota, Sarasota-Bradenton

10983N	18696E
alt.	28
RWY 14-32	7003 x 150
RWY 4-22	5004 x 150



Sebring, Sebring Airport and Industrial Park

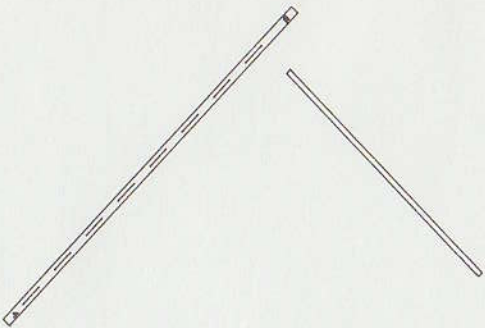
11041N	19160E
alt.	63
RWY 18-36	5190 x 300
RWY 14-32	5190 x 300



Tampa, Tampa Int'l (F)

11240N 18690E  
alt. 27

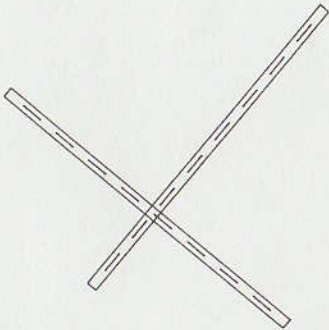
RWY 18R-36L	11000 x 150
RWY 18L-36R	8300 x 150
RWY 9-27	6998 x 150



Tampa, MacDill AFB

11186 18704  
alt. 14

RWY 4-22 11420 x 250

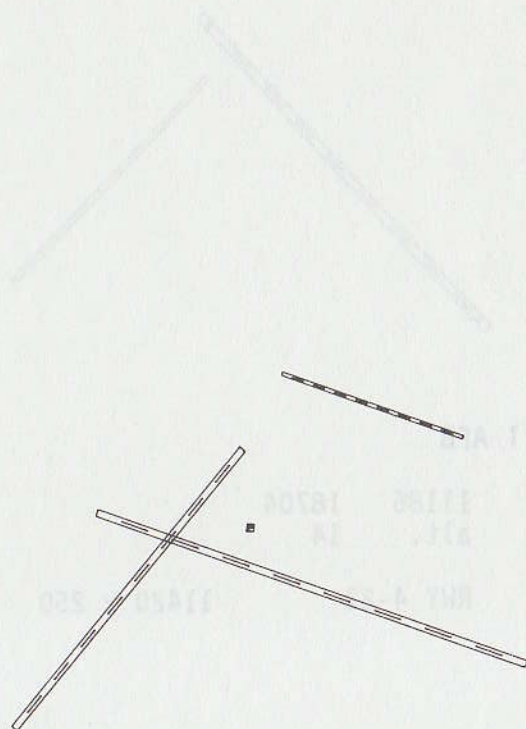


Venice, Venice Muni

10845N 18748E  
alt. 19

RWY 4-22	5000 x 150
RWY 13-31	5000 x 150

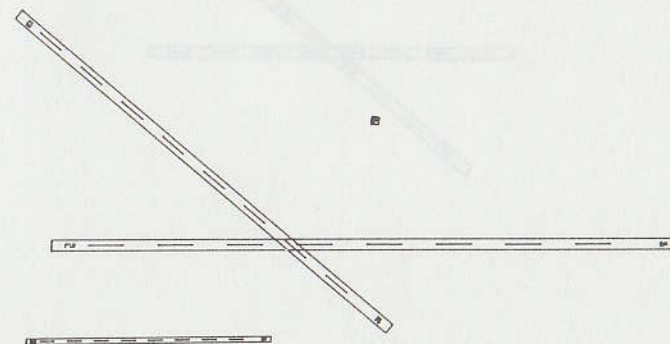




## Vero Beach, Vero Beach Muni (F)

11154N 19505E  
alt. 25

RWY 11R-29L	7180 x 100
RWY 4-22	4975 x 100
RWY 11L-29R	2637 x 50



## West Palm Beach, Palm Beach Intl (F)

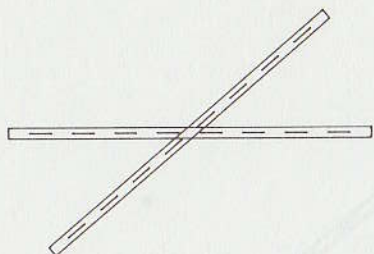
10746N 19662E  
alt. 19

RWY 9L-27R	7989 x 150
RWY 13-31	6930 x 150
RWY 9R-27L	3152 x 75

ATIS: 123.75

ILS 9L

FREQUENCY:	109.3
HEADING:	96
ALTITUDE:	1906 ft @LOM



## Winter Haven, Bartow Muni

11241N 18979E

alt. 128

RWY 5-23 5000 x 100

RWY 9-27 5000 x 150

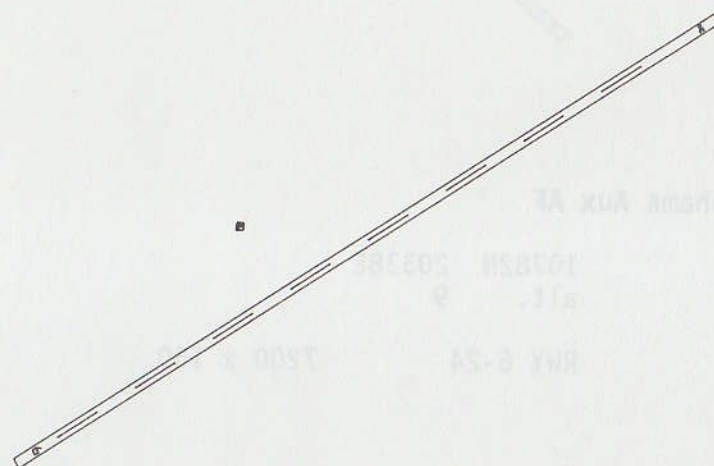


## Congo Town

9749N 20746E

alt. 15

RWY 10-28 5000 x 100



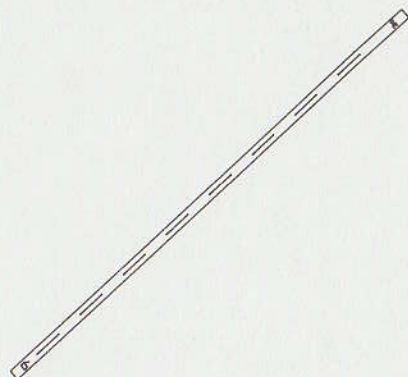
## Freeport Int'l (F)

10737N 20209E

alt. 7

RWY 6-24 11000 x 150

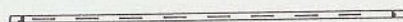




Grand Bahama Aux AF

10782N 20338E  
alt. 9

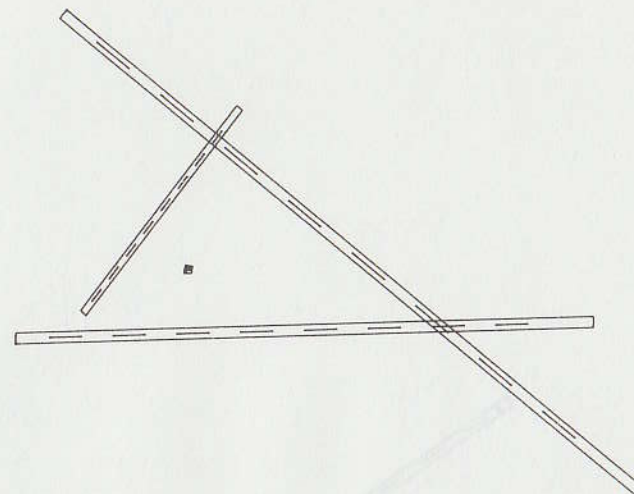
RWY 6-24 7200 x 150



Marsh Harbour

10783N 20830E  
alt. 10

RWY 9-27 5000 x 150



Nassau Int'l (F)

10136N 20749E  
alt. 10

RWY 13-31 11000 x 150  
RWY 9-27 8000 x 150  
RWY 4-22 2700 x 100



South Bimini

10350N 20020E  
alt. 10

RWY 9-27 5000 x 150

## Treasure Cay

10871N 20702E  
alt. 11

RWY 13-31 7000 x 150

## Bimini (VOR)

10350N 20011E  
freq. 116.7

## Biscayne Bay (VOR)

10306N 19668E  
freq. 117.1

## Cape Canaveral (NDB)

11515N 19429E  
freq. 313

## Cook (NDB)

10356N 19596E  
freq. 365

## Deland (NDB)

11753N 19131E  
freq. 201

## Fish Hook (NDB)

9774N 19073E  
freq. 332

## Fort Pierce (NDB)

11083N 19528E  
freq. 275

## Freeport (NDB)

10719N 20184E  
freq. 209



## Freeport (VOR)

10735N 20210E  
freq. 113.2

## Ft Lauderdale (VOR)

10477N 19662E  
freq. 111.4

## Ft Myers (VOR)

10653N 18982E  
freq. 117.6

## Ft Pierce (NDB)

11084N 19529E  
freq. 275

## Ft. Lauderdale (VOR)

10478N 19663E  
freq. 111.4

## Ft. Myers (VOR)

10652N 18983E  
freq. 117.6

## Geiger Lake (NDB)

11562N 19315E  
freq. 375

## Key West (VOR)

9791N 19067E  
freq. 113.5

## Kissimmee (NDB)

11415N 19099E  
freq. 329

## La Belle (VOR)

10769N 19159E  
freq. 110.4

## Lakeland (VOR)

11251N 18885E  
freq. 116

## Leesburg (NDB)

11631N 18934E  
freq. 335

## Marathon (NDB)

9863N 19340E  
freq. 260

## Marsh Harbour (NDB)

10783N 20831E  
freq. 361

## Melbourne (VOR)

11346N 19407E  
freq. 110

## Miami (NDB)

10345N 19682E  
freq. 322

## Miami (VOR)

10422N 19547E  
freq. 115.9

## Nassau (VOR)

10133N 20759E  
freq. 112.7

## OCALA ,FL (VOR)

11770N 18767E  
freq. 113.7

## Orlando (VOR)

11527N 19127E  
freq. 112.2

## Pahokee (VOR)

10772N 19430E  
freq. 112.4

## Palm Beach (VOR)

10742N 19667E  
freq. 115.7

## Perrine (NDB)

10287N 19543E  
freq. 266

## Plantation (NDB)

10503N 19636E  
freq. 242

## Punta Gorda (VOR)

10791N 18924E  
freq. 110.2

## Rubin (NDB)

10743N 19619E  
freq. 356

## Sanford (NDB)

11629N 19156E  
freq. 408

## Sarasota (VOR)

10985N 18695E  
freq. 115.2

## Satellite (NDB)

11334N 19381E  
freq. 257

## Sebring (NDB)

11041N 19156E  
freq. 382

## St. Petersburg (VOR)

11203N 18631E  
freq. 116.4

## Treasure Cay (NDB)

10847N 20741E  
freq. 233



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Treasure Cay (VOR)

10867N 20710E  
freq. 112.9

Vero Beach (VOR)

11162N 19478E  
freq. 117.3