NOTE: Chart not to scale.

BSTER TWO DEPARTURE (RNAV)

**Thin ARINC 424 Text:**

**FL180**

**1900**

**065°**

**VALLY**

**060°**

**WINCO**

**11300**

**090°**

**11000**

**2100**

**11100**

**092°**

**2500**

**RADAR required.**

**NOTE:** DME/DME/IRU or GPS required.

**NOTE:** Turbojets only.

**NOTE:** Radar required.

**NOTE:** Accelerate to 250K, if unable advise ATC.

**NOTE:** Turbojets only, night use for noise abatement (2300 LCL-0600 LCL)

**NOTE:** RNAV 1.

**NOTE:** Chart not to scale.

**TAKEOFF MINIMUMS:**

Rwys 8L/8R/12/26L/26R: 121.8 348.6

Rwys 9/27/30: 127.5 348.6

**NOTE:** Chart not to scale.

**MIA**

**MIAMI INTL**

**FL180**

**060°**

**WINCO**

**11300**

**090°**

**11000**

**2100**

**11100**

**092°**

**2500**

**RADAR required.**

**NOTE:** DME/DME/IRU or GPS required.

**NOTE:** Turbojets only.

**NOTE:** Radar required.

**NOTE:** Accelerate to 250K, if unable advise ATC.

**NOTE:** Turbojets only, night use for noise abatement (2300 LCL-0600 LCL)

**NOTE:** RNAV 1.
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 26L/R, 27: Climb heading 272° to 520, then direct BSTER, then on depicted route to SCATE. Thence.

TAKEOFF RUNWAY 30: Climb heading 304° to intercept course 261° to BSTER, then on depicted route to SCATE. Thence.

. . . . via transition or assigned route, maintain 5000 or ATC assigned altitude. Expect further clearance to filed altitude within 10 minutes after departure.

HEDLY TRANSITION (BSTER2.HEDLY):
PADUS TRANSITION (BSTER2.PADUS):
VALLY TRANSITION (BSTER2.VALLY):
WINCO TRANSITION (BSTER2.WINCO):
DEEP TWO DEPARTURE (RNAV)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 26L: Climb heading 272° to intercept course 265° to BSTER, then on depicted route to DRIVM, thence.

TAKEOFF RUNWAY 26R: Climb heading 272° to intercept course 264° to BSTER, then on depicted route to DRIVM, thence.

TAKEOFF RUNWAY 27: Climb heading 272° to 520, then direct BSTER, then on depicted route to DRIVM, thence.

TAKEOFF RUNWAY 30: Climb heading 304° to intercept course 261° to BSTER, then on depicted route to DRIVM, thence.

....via transition or assigned route, maintain 5000 or ATC assigned altitude.

Expect further clearance to filed altitude within 10 minutes after departure.

EONNS TRANSITION (DEEEP2.EONNS):
MNATE TRANSITION (DEEEP2.MNATE):
SKIPS TRANSITION (DEEEP2.SKIPS):

NOTE: Chart not to scale.
EONNS TWO DEPARTURE (RNAV)

NOTE: Chart not to scale.

NOTE: Turbojet aircraft accelerate to 250K, if unable, advise ATC.
NOTE: Turboprop aircraft maintain maximum forward airspeed and climb rate.
NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: For non-GPS equipped aircraft: DHP VORTAC must be operational for Takeoff Rwys 8R, 8L, 9, 12; FLL VOR/DME, VKZ VOR/DME and ZBV VORTAC must be operational for Takeoff Rwys 26R, 26L, 27, 30.

TAKEOFF MINIMUMS:
Rwy 8L: 300-1¼ with minimum obstacle climb of 221 feet per NM to 1200 or Standard with minimum obstacle climb of 382 feet per NM to 300, minimum ATC climb of 500 feet per NM to 520.
Rwy 8R: Standard with minimum obstacle climb of 237 feet per NM to 1200, minimum ATC climb of 500 feet per NM to 520.
Rwy 9: Standard with minimum obstacle climb of 233 feet per NM to 1200, minimum ATC climb of 500 feet per NM to 520.
Rwy 12: Standard with minimum obstacle climb of 226 feet per NM to 1200, minimum ATC climb of 500 feet per NM to 520.
Rwys 26R, 26L, 27, 30: Standard with minimum ATC climb of 300 feet per NM to 520.

NOTE: Chart not to scale.

(NARRATIVE CONTINUED ON NEXT PAGE)
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 8L/R, 9: Climb heading 092° to 520, then right turn direct VKZ VOR/DME, then via depicted route to EONNS, thence. . . .

TAKEOFF RUNWAY 12: Climb heading 124° to 520, then right turn direct SABRA, then via depicted route to EONNS, thence. . . .

TAKEOFF RUNWAY 26R: Climb heading 272° to 520, then left turn direct LICEY, then via depicted route to EONNS, thence. . . .

TAKEOFF RUNWAY 26L: Climb heading 272° to 520, then left turn direct JADAK, then via depicted route to EONNS, thence. . . .

TAKEOFF RUNWAY 27: Climb heading 272° to 520, then left turn direct GRITT, then left turn via track 179° to CULBY, then via depicted route to EONNS, thence. . . .

TAKEOFF RUNWAY 30: Climb heading 304° to 520, then left turn direct LICEY, then via depicted route to EONNS, thence. . . .

. . . . . . . maintain 5000 or ATC assigned altitude. Expect further clearance to filed altitude within 10 minutes after departure.
NOTE: Chart not to scale.

(NARRATIVE CONTINUED ON NEXT PAGE)
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 8L/R, 9: Climb heading 092° to 520, then left turn direct
SENROY, then via depicted route to HEDLY, thence. . . .
TAKEOFF RUNWAY 12: Climb heading 124° to 520, then left turn direct SENROY,
then via depicted route to HEDLY, thence. . . .
TAKEOFF RUNWAYS 26L/R, 27: Climb heading 272° to 520, then right turn
direct METTS, then via depicted route to HEDLY, thence. . . .
TAKEOFF RUNWAY 30: Climb heading 304° to 520, then left turn direct METTS,
then via depicted route to HEDLY, thence. . . .
. . . . maintain 5000 or ATC assigned altitude. Expect further clearance to filed
altitude within 10 minutes after departure.

TAKEOFF MINIMUMS:
Rwy 8L: 300-1¼ or Standard with minimum obstacle climb of 382 feet per NM
to 300, minimum ATC climb of 500 feet per NM to 520.
Rwys 8R, 9: Standard with minimum ATC climb of 500 feet per NM to 520.
Rwy 12: Standard with minimum obstacle climb of 229 feet per NM to 1200,
minimum ATC climb of 500 feet per NM to 520.
Rwys 26R, 26L, 27, 30: Standard with minimum ATC climb of 300 feet per NM to 520.
DEPARTURE ROUTE DESCRIPTION

TAKEOFF MINIMUMS:
Rwys 26L/R, 27, 30: NA per ATC.
Rwys 8L/R, 9, 12: Standard with minimum climb of 500' per NM to 520.

TAKEOFF RUNWAYS 8L/R, 9: Climb heading 092° to 520, then direct POTTR, then on depicted route to HITAG. Thence....
TAKEOFF RUNWAY 12: Climb heading 124° to 520, then turn left direct POTTR, then on depicted route to HITAG. Thence....
.. Via transition or assigned route, maintain 5000 or as assigned by ATC, expect climb to filed altitude/flight level within 10 minutes after departure.

HEDLY TRANSITION (HITAG2.HEDLY):
PADUS TRANSITION (HITAG2.PADUS):
VALLY TRANSITION (HITAG2.VALLY):
WINCO TRANSITION (HITAG2.WINCO):

NOTE: Chart not to scale.
TOP ALTITUDE: 5000

TAKEOFF MINIMUMS
Rwys 8L/R, 9, 12: Standard with minimum climb of 500’ per NM to 520.
Rwys 26L/R, 27, 30: NA per ATC.

TAKEOFF RUNWAYS 8L/R, 9, 12: Climb heading 092° to 520, then direct JONZI, then on depicted route to VKZ VOR/DME. Thence.
TAKEOFF RUNWAY 12: Climb heading 124° to intercept course 091° to JONZI, then on depicted route to VKZ VOR/DME. Thence. . .
. . .via transition or assigned route, maintain 5000 or ATC assigned altitude. Expect further clearance to filed altitude within 10 minutes after departure.

EONNS TRANSITION (JONZI2.EONNS):
MNATE TRANSITION (JONZI2.MNATE):
SKIPS TRANSITION (JONZI2.SKIPS):

NOTE: Chart not to scale.
NOTE: RADAR required.
NOTE: DME required.
NOTE: Turboprops operate in a manner that will result in best forward speed and climb rate.
NOTE: File DP in remarks section of flight plan.
NOTE: Turbojets accelerate to 250K as rapidly as feasible until reaching 10000 MSL unless requested by ATC to do otherwise.

SPECIAL INSTRUCTIONS
Unless otherwise assigned, use departure frequency depicted associated with the transition in clearance.

(TAKEOFF MINIMUMS
Rwy 8L: Standard with minimum climb of 383' per NM to 1800.
Rwy 8R: Standard with minimum climb of 326' per NM to 1400.
Rwy 9: Standard with minimum climb of 312' per NM to 1400.
Rwy 12: Standard with minimum climb of 242' per NM to 1200.

NOTE: Chart not to scale.
DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RWYS: Climb on assigned heading for RADAR vectors to assigned transition. Climb and maintain 5000 or assigned lower altitude. Expect filed altitude ten (10) minutes after departure.

BEECH TRANSITION (MIA6.BEECH): From over FLL VOR/DME on FLL R-104 to BEECH INT.

EONNS TRANSITION (MIA6.EONNS): From over DHP VORTAC on DHP R-151 to EONNS INT.

HEDLY TRANSITION (MIA6.HEDLY): From over DRRUM DME FIX on PHK R-157 to HEDLY INT.

MNATE TRANSITION (MIA6.MNATE): From over DHP VORTAC on DHP R-195 to MNATE DME FIX.

PADUS TRANSITION (MIA6.PADUS): From over VKZ VOR/DME on VKZ R-058 to JANUS INT and ZFP R-245 to PADUS INT.

SKIPS TRANSITION (MIA6.SKIPS): From over VKZ VOR/DME on VKZ R-108 to SKIPS INT.

WINCO TRANSITION (MIA6.WINCO): From over DHP VORTAC on DHP R-322 to WINCO INT.
NOTE: Chart not to scale.

RNAV 1.
DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: Turboprop aircraft maintain maximum forward airspeed and climb rate.
NOTE: For non-GPS equipped aircraft:
DHP VORTAC must be operational for Takeoff Rwys 8R, 8L, 9, 12;
FLL VOR/DME, VKZ VOR/DME, EYW VORTAC and DHP VORTAC must be operational for Takeoff Rwys 26R, 26L, 27, 30.

Rwy 8L: 300-1/4 with minimum obstacle climb of 221 feet per NM to 1200 or Standard with minimum obstacle climb of 382 feet per NM to 300, minimum ATC climb of 500 feet per NM to 520.
Rwy 8R: Standard with minimum obstacle climb of 237 feet per NM to 1200, minimum ATC climb of 500 feet per NM to 520.
Rwy 9: Standard with minimum obstacle climb of 233 feet per NM to 1200, minimum ATC climb of 500 feet per NM to 520.
Rwy 12: Standard with minimum obstacle climb of 226 feet per NM to 1200, minimum ATC climb of 500 feet per NM to 520.
Rwys 26R, 26L, 27, 30: Standard with minimum ATC climb of 300 feet per NM to 520.

Top Altitude:
5000

(MNATE TWO DEPARTURE (RNAV))
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 8L/R, 9: Climb heading 092° to 520’, then right turn direct VKZ VOR/DME, then via depicted route to MNATE, thence. . . .

TAKEOFF RUNWAY 12: Climb heading 124° to 520’, then direct SABRA, then via depicted route to MNATE, thence. . . .

TAKEOFF RUNWAY 26R: Climb heading 272° to 520’, then direct LICEY, then via depicted route to MNATE, thence. . . .

TAKEOFF RUNWAY 26L: Climb heading 272° to 520’, then left turn direct JADA, then via depicted route to MNATE, thence. . . .

TAKEOFF RUNWAY 27: Climb heading 272° to 520’, then left turn direct GRIT, then via depicted route to MNATE, thence. . . .

TAKEOFF RUNWAY 30: Climb heading 304° to 520’, then left turn direct LICEY, then via depicted route to MNATE, thence. . . .

. . . . maintain 5000 or ATC assigned altitude. Expect further clearance to filed altitude within 10 minutes after departure.
NOTE: Chart not to scale.

TAKEOFF MINIMUMS
Rwy 8L: 300-1/4 or Standard with minimum obstacle climb
      of 382' per NM to 300', minimum ATC climb of 500' per NM to 520'.
Rwy 8R: Standard with minimum ATC climb of 500' per NM to 520'.
Rwy 9:  Standard with minimum obstacle climb of 233' per NM to 1200',
       minimum ATC climb of 500' per NM to 520.
Rwy 12: Standard with minimum obstacle climb of 229' per NM to 1200',
        minimum ATC climb of 500' per NM to 520'.
Rwy 26L/R, 27, 30: Standard with minimum ATC climb of 300' per NM to 520'.

NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: Turbojet aircraft accelerate to 250K,
      if unable, advise ATC.
NOTE: Turboprop aircraft maintain maximum forward airspeed and climb rate.
NOTE: RNAV 1.

TOP ALTITUDE: 5000
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 8L: Climb heading 092° to 520’, then right turn direct HINKU, then via depicted route to PADUS, thence. . . .

TAKEOFF RUNWAY 8R: Climb heading 092° to 520’, then right turn direct GOZZO, then via depicted route to PADUS, thence. . . .

TAKEOFF RUNWAY 9: Climb heading 092° to 520’, then right turn direct RIKEE, then via depicted route to PADUS, thence. . . .

TAKEOFF RUNWAY 12: Climb heading 124° to 520’, then left turn direct RIKEE, then via depicted route to PADUS, thence. . . .

TAKEOFF RUNWAY 26L/R, 27: Climb heading 272° to 520’, then right turn direct METTS, then via depicted route to PADUS, thence. . . .

TAKEOFF RUNWAY 30: Climb heading 304° to 520’, then left turn direct METTS, then via depicted route to PADUS, thence. . . .

. . . . maintain 5000’ or ATC assigned altitude. Expect further clearance to filed altitude within 10 minutes after departure.
POTTR SIX DEPARTURE

NOTE: Chart not to scale.

TOP ALTITUDE:
5000

(NARRATIVE ON FOLLOWING PAGE)
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 8R: Climb to intercept DHP VORTAC R-091 to POTTR INT. Thence . . . .
TAKEOFF RWYS 9, 12: Climbing left turn to intercept DHP VORTAC R-091 to POTTR INT. Thence . . . .

. . . . turn left heading 060°. Expect radar vectors to appropriate transition. All aircraft maintain 5000 or assigned lower altitude. Expect clearance to filed altitude ten (10) minutes after departure.

BEECH TRANSITION (POTTR6.BEECH): From over FLL VOR/DME on FLL R-104 to BEECH INT. Thence as filed.
HEDLY TRANSITION (POTTR6.HEDLY): From over DRUUM DME FIX on PHK VOR/DME R-157 to HEDLY INT. Thence as filed.
PADUS TRANSITION (POTTR6.PADUS): From over VKZ VOR/DME on VKZ R-058 to JANUS INT and ZFP VOR/DME R-245 to PADUS INT. Thence as filed.
WINCO TRANSITION (POTTR6.WINCO): From over DHP VORTAC on DHP R-322 to WINCO INT. Thence as filed.
NOTE: Chart not to scale.

TOP ALTITUDE: 5000

TAKING OFF MINIMUMS
Rwy 8L: 300-1 1/4 with minimum obstacle climb of 221 feet per NM to 1200 or Standard with minimum obstacle climb of 382 feet per NM to 300, minimum ATC climb of 500 feet per NM to 520.
Rwy 8R: Standard with minimum obstacle climb of 237 feet per NM to 1200, minimum ATC climb of 500 feet per NM to 520.
Rwy 9: Standard with minimum obstacle climb of 233 feet per NM to 1200, minimum ATC climb of 500 feet per NM to 520.
Rwy 12: Standard with minimum obstacle climb of 229 feet per NM to 1200, minimum ATC climb of 500 feet per NM to 520.
Rwys 26R, 26L, 27, 30: Standard with minimum ATC climb of 300 feet per NM to 520.

NOTE: DME/DME/IRU or GPS required.
NOTE: RADAR required.
NOTE: Turbojet aircraft accelerate to 250K, if unable, advise ATC.
NOTE: Turboprop aircraft maintain maximum forward airspeed and climb rate.
NOTE: RNAV 1.
NOTE: For Non-GPS equipped aircraft: FLL VOR/DME must be operational for takeoff Rwys 8R, 8L, 9, 12; FLL VOR/DME and VKZ VOR/DME must be operational for takeoff Rwys 26R, 26L, 27, 30.

(DIAGRAM OF TWO DEPARTURE (RNAV))
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 8L/R, 9: Climb heading 092° to 520, then right turn direct VKZ VOR/DME, then via depicted route to SKIPS, thence . . . .

TAKEOFF RUNWAY 12: Climb heading 124° to 520, then direct SABRA, then via depicted route to SKIPS, thence . . . .

TAKEOFF RUNWAY 26R: Climb heading 272° to 520, then left turn direct LICEY, then via depicted route to SKIPS, thence . . . .

TAKEOFF RUNWAY 26L: Climb heading 272° to 520, then left turn direct JADAK, then via depicted route to SKIPS, thence . . . .

TAKEOFF RUNWAY 27: Climb heading 272° to 520, then left turn direct GRITT, then left turn via track 179° to CULBY, then via depicted route to SKIPS, thence . . . .

TAKEOFF RUNWAY 30: Climb heading 304° to 520, then left turn direct LICEY, then via depicted route to SKIPS, thence . . . .

. . . . maintain 5000 or ATC assigned altitude. Expect further clearance to filed altitude within 10 minutes after departure.
SOUBY FIVE DEPARTURE
(SOUBY5.SOUBY) 30 Apr 15

SPECIAL INSTRUCTIONS
TURBOJETS: Accelerate to 250K as rapidly as feasible until reaching 10000 MSL, unless requested by ATC to do otherwise.

NOTE: Unless otherwise instructed, continue heading 135° after VKZ VOR/DME until ATC issues vectors to appropriate transition.

NOTE: Turbojets Only, night use for noise abatement (2300 LCL - 0600 LCL).
NOTE: File DP in remarks section of flight plan.
NOTE: DME required.

NOTE: Chart not to scale.

SOUBY FIVE DEPARTURE
(SOUBY5.SOUBY) 20254
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 8R, 9: Turn right. Thence.
TAKEOFF RUNWAY 12: Turn left. Thence.

. . . .intercept DHP R-103 to SOUBY INT/DHP 9 DME, then turn right to VKZ R-315 to VKZ VOR/DME. Thence to heading 135°. Expect radar vectors to appropriate transition. All aircraft maintain 5000’ or assigned lower altitude. Expect further clearance to filed altitude ten minutes after departure. Unless otherwise assigned, departure frequency for SKIPS, EONNS, and MNATE transitions use 125.5.

EONNS TRANSITION (SOUBY5.EONNS): Intercept the DHP VORTAC R-151 to EONNS INT. Thence as filed.
MNATE TRANSITION (SOUBY5.MNATE): Intercept the DHP VORTAC R-195 to MNATE DME FIX. Thence as filed.
SKIPS TRANSITION (SOUBY5.SKIPS): Intercept the VKZ VOR/DME R-108 to SKIPS INT. Thence as filed.
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 8L: Climb heading 092° to 520, then right turn direct
HINKU, then via depicted route to VALLY, thence . . . .

TAKEOFF RUNWAY 8R: Climb heading 092° to 520, then right turn direct
GOZZO, then via depicted route to VALLY, thence . . . .

TAKEOFF RUNWAY 9: Climb heading 092° to 520, then right turn direct
RIKEE, then via depicted route to VALLY, thence . . . .

TAKEOFF RUNWAY 12: Climb heading 124° to 520, then left turn direct
RIKEE, then via depicted route to VALLY, thence . . . .

TAKEOFF RUNWAY 26L/R, 27: Climb heading 272° to 520, then right turn direct
METTS, then via depicted route to VALLY, thence . . . .

TAKEOFF RUNWAY 30: Climb heading 304° to 520, then left turn direct
METTS, then via depicted route to VALLY, thence . . . .

. . . . maintain 5000 or ATC assigned altitude. Expect further clearance to filed altitude within 10 minutes after departure.
NOTE: Chart not to scale.

**WINCO TWO DEPARTURE (RNAV)**

**D-ATIS**: 133.675  
**CLNC DEL**: 135.35  
**CPDLC**  
**GND CON**: 121.8  348.6(8L/8R/12/26L/26R)  
127.5  348.6 (9/27/30)  
**MIAMI TOWER**: 118.3  256.9  
**MIAMI DEP CON**: 119.45  290.325

**TOP ALTITUDE:** 5000

**TAKEOFF MINIMUMS**
- Rwy 8L: 300-1/4 or Standard with minimum obstacle climb of 382’ per NM to 300, minimum ATC climb of 500’ per NM to 520.
- Rwy 8R, 9: Standard with minimum ATC climb of 500’ per NM to 520.
- Rwy 12: Standard with minimum obstacle climb of 229’ per NM to 1200, minimum ATC climb of 500’ per NM to 520.
- Rwy 26L/R, 27, 30: Standard with minimum ATC climb of 300’ per NM to 520.

**NOTE:** Turbojet aircraft accelerate to 250K, if unable, advise ATC.
**NOTE:** Turboprop aircraft maintain maximum forward airspeed and climb rate.
**NOTE:** DME/DME/IRU or GPS required.
**NOTE:** RADAR required.
**NOTE:** RNAV 1.
**NOTE:** For non-GPS equipped aircraft, FLL VOR/DME must be operational for takeoff Rwy 26R, 26L, 27, 30.

**NOTE:** Turbojet aircraft accelerate to 250K, if unable, advise ATC.
**NOTE:** Turboprop aircraft maintain maximum forward airspeed and climb rate.
**NOTE:** DME/DME/IRU or GPS required.
**NOTE:** RADAR required.
**NOTE:** RNAV 1.
**NOTE:** For non-GPS equipped aircraft, FLL VOR/DME must be operational for takeoff Rwy 26R, 26L, 27, 30.

**TAKEOFF MINIMUMS**
- Rwy 8L: 300-1/4 or Standard with minimum obstacle climb of 382’ per NM to 300, minimum ATC climb of 500’ per NM to 520.
- Rwy 8R, 9: Standard with minimum ATC climb of 500’ per NM to 520.
- Rwy 12: Standard with minimum obstacle climb of 229’ per NM to 1200, minimum ATC climb of 500’ per NM to 520.
- Rwy 26L/R, 27, 30: Standard with minimum ATC climb of 300’ per NM to 520.

**NOTE:** Turbojet aircraft accelerate to 250K, if unable, advise ATC.
**NOTE:** Turboprop aircraft maintain maximum forward airspeed and climb rate.
**NOTE:** DME/DME/IRU or GPS required.
**NOTE:** RADAR required.
**NOTE:** RNAV 1.
**NOTE:** For non-GPS equipped aircraft, FLL VOR/DME must be operational for takeoff Rwy 26R, 26L, 27, 30.
DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 8L/R, 9: Climb heading 092° to 520, then left turn direct SENOY, then via depicted route to WINCO, thence. . . .
TAKEOFF RWY 12: Climb heading 124° to 520, then left turn direct SENOY, then via depicted route to WINCO, thence. . . .
TAKEOFF RWYS 26L/R, 27: Climb heading 272° to 520, then right turn direct OHOFO, then via depicted route to WINCO, thence. . . .
TAKEOFF RWY 30: Climb heading 304° to 520, then left turn direct OHOFO, then via depicted route to WINCO, thence. . . .

. . . . maintain 5000 or ATC assigned altitude. Expect further clearance to filed altitude within 10 minutes after departure.
**HOT SPOTS**

An "airport surface hot spot" is a location on an aerodrome movement area with a history or potential risk of collision or runway incursion, and where heightened attention by pilots/drivers is necessary.

A "hot spot" is a runway safety related problem area on an airport that presents increased risk during surface operations. Typically it is a complex or confusing taxiway/taxiway or taxiway/runway intersection. The area of increased risk has either a history of or potential for runway incursions or surface incidents, due to a variety of causes, such as but not limited to: airport layout, traffic flow, airport marking, signage and lighting, situational awareness, and training. Hot spots are depicted on airport diagrams as open circles or polygons designated as "HS 1", "HS 2", etc. and tabulated in the list below with a brief description of each hot spot. Hot spots will remain charted on airport diagrams until such time the increased risk has been reduced or eliminated.

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<th>DESCRIPTION*</th>
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</thead>
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<td>Int of Twy W and Twy S.</td>
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<td>HS 1</td>
<td>Int of Twy B and Rwy 09-27.</td>
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<tr>
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<td>HS 2</td>
<td>Int of Twy A and Rwy 13-31.</td>
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<tr>
<td>FORT MYERS, FL PAGE FIELD (FMY)</td>
<td>HS 3</td>
<td>Int of Twy C, Twy B and Rwy 13-31.</td>
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<tr>
<td>FORT MYERS, FL SOUTHWEST FLORIDA INTL (RSW)</td>
<td>HS 1</td>
<td>Twy Q at Rwy 10L-28R.</td>
</tr>
<tr>
<td>FORT PIERCE, FL TREASURE COAST INTL (FPR)</td>
<td>HS 1</td>
<td>Maintain vigilance confusing int.</td>
</tr>
<tr>
<td>HOLLYWOOD INTL (FLL)</td>
<td>HS 2</td>
<td>When ldg Rwy 06, Twy F6 high speed exit sign is immediately before the Twy F5 reverse high speed.</td>
</tr>
<tr>
<td>FORT LAUDERDALE, FL FORT LAUDERDALE HOLLYWOOD INTL (FLL)</td>
<td>HS 3</td>
<td>Maintain vigilance pilots confuse Rwy 14 as Twy B.</td>
</tr>
<tr>
<td></td>
<td>HS 3</td>
<td>Confusing int; pilots have used Twy A as a rwy.</td>
</tr>
<tr>
<td>GAINESVILLE, FL GAINESVILLE RGNL (GNV)</td>
<td>HS 1</td>
<td>Rwy 11 Apch Hold Position.</td>
</tr>
<tr>
<td></td>
<td>HS 2</td>
<td>Rwy 07 and Rwy 11 apch ends.</td>
</tr>
<tr>
<td>HOLLYWOOD, FL NORTH PERRY (HWO)</td>
<td>HS 3</td>
<td>Twy D and Twy B lead to Rwy 25 and Rwy 29.</td>
</tr>
<tr>
<td>MIAMI, FL MIAMI EXECUTIVE (TMB)</td>
<td>HS 1</td>
<td>Aircraft taxiing on Twy L westbound to depart on Rwy 01L-19R.</td>
</tr>
<tr>
<td>MIAMI, FL MIAMI INTL (MIA)</td>
<td>HS 1</td>
<td>Twy H and Twy E hold lines are in close proximity to Rwy 13-31.</td>
</tr>
<tr>
<td>MIAMI, FL MIAMI OPA LOCKA EXECUTIVE (OPF)</td>
<td>HS 1</td>
<td>Surface painted LOCATION and DIRECTION signs ONLY.</td>
</tr>
<tr>
<td>NAPLES, FL NAPLES MUNI (APF)</td>
<td>HS 1</td>
<td>Maint vigilance confusing twy int.</td>
</tr>
</tbody>
</table>

*(SEE CONTINUATION PAGE FOR MORE LISTINGS)*
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<thead>
<tr>
<th>CITY/AIRPORT</th>
<th>HOT SPOT</th>
<th>DESCRIPTION*</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEW SMYRNA BEACH, FL</td>
<td>HS 1</td>
<td>Twy E and Rwy 25 and Rwy 20.</td>
</tr>
<tr>
<td>NEW SMYRNA BEACH MUNI (EVB)</td>
<td>HS 2</td>
<td>Twy B, Twy E and Rwy 20.</td>
</tr>
<tr>
<td>ORLANDO, FL EXECUTIVE (ORL)</td>
<td>HS 1</td>
<td>Rwy 25 and Twy E.</td>
</tr>
<tr>
<td>ORLANDO SANFORD INTL (SFB)</td>
<td>HS 2</td>
<td>Rwy 07 and Twy A3.</td>
</tr>
<tr>
<td>PENSACOLA, FL PENSACOLA INTL (PNS)</td>
<td>HS 1</td>
<td>Twy C is beyond the Rwy 09C APCH hold sign and marking.</td>
</tr>
<tr>
<td>POMPANO BEACH, FL POMPANO BEACH AIRPARK (PMP)</td>
<td>HS 1</td>
<td>Be alert to multiple twy and rwy crossing points surrounding the int of Rwy 17-35 and Rwy 08-26.</td>
</tr>
<tr>
<td>ST. AUGUSTINE, FL NORTHEAST FLORIDA RGNL (SGJ)</td>
<td>HS 1</td>
<td>Maintain vigilance confusing twy configuration.</td>
</tr>
<tr>
<td>SARASOTA/BRADENTON, FL SARASOTA/BRADENTON INTL (SRQ)</td>
<td>HS 2</td>
<td>Maintain vigilance confusing twy configuration.</td>
</tr>
<tr>
<td>SAN JUAN, PR LUIS MUNOZ MARIN INTL (SJU)</td>
<td>HS 1</td>
<td>Maintain vigilance highly congested area.</td>
</tr>
<tr>
<td>STUART, FL WITHAM FIELD (SUA)</td>
<td>HS 2</td>
<td>Maintain vigilance highly congested area.</td>
</tr>
<tr>
<td>TITUSVILLE, FL SPACE COAT RGNL (TIX)</td>
<td>HS 1</td>
<td>Int of Rwy 14-32 and Rwy 04-22.</td>
</tr>
<tr>
<td>WEST PALM BEACH, FL PALM BEACH INTL (PBI)</td>
<td>HS 1</td>
<td>Rwy 10L and Twy L.</td>
</tr>
<tr>
<td></td>
<td>HS 2</td>
<td>Missing left turn from Twy F to Twy L.</td>
</tr>
</tbody>
</table>

*See appropriate Chart Supplement HOT SPOT table for additional information.
For inoperative MALSR, increase S-ILS 12 all Cat visibility to 1/3 increase S-LOC 123 Cat A and B visibility to RVR 5000, DME or Radar required. Visibility reduction by helicopters NA.

**MALSR**

**MISS APPROACH:** Climb to 800 then climbing left turn to 3000 direct VKZ VOR/DME and hold.

**VGS and ILS Glidepath not coincident** (VGS Angle 3.00°/TCH 72).

**One Minute Holding Pattern**

**ELEV** 9

**DG**

**MALSR**

**MISS APPROACH:** Climb to 800 then climbing left turn to 3000 direct VKZ VOR/DME and hold.

**VGS and ILS Glidepath not coincident** (VGS Angle 3.00°/TCH 72).

**One Minute Holding Pattern**

**ELEV** 9

**DG**
MISSED APPROACH: Climb to 800 then climbing right turn to 2000 on heading 290° and DHP VORTAC R-335 to BRBRA/DHP 11.5 DME and hold.

For inop ALS, increase CONST FIX MINIMUMS: S-LOC 26L Cat C/D visibility to RVR 6000.

Autopilot coupled approach NA below 480. Simultaneous approach authorized. Inop table does not apply to S-ILS 26L all Cats and S-LOC 26L Cat C/D. For inop ALS, increase CONST FIX MINIMUMS: S-LOC 26L Cat C/D visibility to RVR 6000.

ALTERTATE MISSED APCH FIX

LOCALIZER 109.1
I-VIN
Chan 28

DOLPHIN
113.9 DHP
Chan 28

ALTERNATE MISSED APCH FIX

117.1 VKZ
Chan 118

272° 4.8 NM from FAF

800 2000
hdg 290°
R-335
DHP 11.5

VGSI and ILS glidepath not coincident (VGSI Angle 3.00°/TCH 73).

*LOC only.

S-ILS 26L
209/40 200 (200-¼)

S-LOC 26L
900/55 891 (900-1) 900-2½ 891 (900-2½)

FAC to MAP 4.8 NM

Knots
60 90 120 150 180
Min:Sec
4:48 3:12 2:24 1:55 1:36

CATEGORY
A
B
C
D

1.6 NM
1.1
2.1 NM
2.9
4.4 NM
4.6
5.8 NM
5.1

S-LOC 26L
420/40 411 (500-¾) 420/50 411 (500-1)

TDZ/CL Rwy 8R
REIL Rwsy 8L and 26R
HIRL all Rwsys

MIAMI, FLORIDA
Amdt 16A 15AUG19

MIAMI, FLORIDA
AL-257 (FAA)
Simultaneous approach authorized:
For inop ALS, increase S-ILS 27 Cat E visibility to RVR 4000 and
TINKE Fix Minimums S-LOC 27 Cat E visibility to 1½ SM.
Inop table does not apply to S-LOC 27 Cats C/D/E.
**VOR 1800 authorized with use of FD or AP or HUD to DA.

MISSING APPROACH: Climb to 600
then climbing right turn to 3000 direct
DHP VORTAC and hold, continue
climb-in-hold to 3000.

**VOR 1800 authorized with use of FD or AP or HUD to DA.

Radar is Required

**VOR 1800 authorized with use of FD or AP or HUD to DA.

Radar is Required
For inop MALSR, increase S-ILS 8 all Cats visibility to 1/2 mile. Simultaneous approach authorized with Rwy 9. Autopilot coupled approach NA below 500 feet. DME required. MISSED APPROACH: Climb to 800 then climbing left turn to 3000 on heading 270° and on DHP VORTAC R-335 to BRBRA/DHP 11.5 DME and hold.

DME or RADAR REQUIRED

VGSi and ILS glidepath not coincident (VGSi Angle 3.00/TCH 77).

One Minute Holding Pattern

KROME I-MFA [15.1] I-MFA RADAR

COPRA I-MFA [11.1] I-MFA RADAR

LAWNN I-MFA [6.3] I-MFA RADAR

HEMOP I-MFA [3.1] I-MFA RADAR

Localizer unusable 1.2 NM from threshold.

DOPPLIN 113.9 DHP Chan 86

BRBRA/DHP 11.5 DME and hold.

092° 4.5 NM from FAF
**ILS or LOC RWY 9**

**MIAMI INTL (MIA)**

**V** Autopilot coupled approach NA. Simultaneous approach authorized. For inop ALS, increase S-ILS 9 Cat E visibility to RVR 4000 and S-LOC 9 Cat C/D visibility to 1 1/2 SM.

**MISSED APPROACH:** Climb to 800 then climbing right turn to 3000 direct VKZ VOR/DME and hold, continue climb-in-hold to 3000.

**CAUTION:** Lights on highway 1/4 mile south of final approach course may be mistaken for runway.

**ALTERNATE MISSED APCH FIX**

**ZOMGU**

**DH** 10.9

**RADAR** required for procedure entry. DME required for LOC only.

**MISSING APCH FIX**

**DOLPHIN**

**113.9 DHP**

**Chan 86**

**VRGINIA KEY**

**117.1 VKZ**

**Chan 118**

**M** 20254

**R** 341

**T** 143

**W**

**R**

**M** 5

**N** 2

**P** 9

**H**

**D**

**A**

**S**

**M**

**270°**

**149°**

**30°**

**20°**

**10°**

**5°**

**110.9**

**APR CRS**

**APP CRS**

**11397**

**Rwy Idg**

**7**

**TDZE**

**9**

**Apt Elev**

**MALS R**

**CLNC DEL**

**135.35**

**DDLC**

**GND CON**

**348.6**

**MIAMI, FLORIDA**

**AL-257 (FAA)**

**20254**

**MIAMI INTL (MIA)**

**ILS or LOC RWY 9**

**SE-3, 10 SEP 2020 to 08 OCT 2020**

**MIAMI, FLORIDA**

**Amdt 10C 25APR19**

**25°48’N-80°17’W**
MIAMI, FLORIDA
AL-257 (FAA)

LOC RWY 8L
MIA MIA INTL (MIA)

DME required. RADAR required for procedure entry.

Rwy 8L helicopter visibility reduction below 1/2 SM NA.

MISSED APPROACH: Climb to 800 then climbing left turn to 3000 on heading 270° and DHP VORTAC R-335 to BRBRA/DHP 11.5 DME and hold.

D-ATIS
ARR 119.15
DEP 133.675

MIAMI APP CON
124.85 322.3

MIAMI TOWER
118.3 256.9

LOC/DME I-ROY
109.3

Chan 30

Rwy Idg 8600

PABOY I-ROY 11

LICEY I-ROY 6

DOLPHIN 113.9 DHP

Chan 86

FEMSO I-ROY 1.6

BRBRA DHP 11.5

DOLPHIN HIRL all Rwys

LOCALIZER I-ROY 109.3

Chan 30

MIAMI, FLORIDA
Orig-C 30JAN20

SE-3, 10 SEP 2020 to 08 OCT 2020

REIL Rwys 8L and 26R

HIRL all Rwys
MISSED APPROACH: Climb to 800 then climbing right turn to 2000 via heading 290° and DHP R-335 to BRBRA/11.5 DME and hold.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 6°C (43°F) or above 54°C (130°F). Simultaneous approach authorized with ILS or LOC RWY 27. DME/DME RNP-0.3 NA. LNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations.

**MISSED APPROACH:** Climb to 800 then climbing right turn to 3000 direct BRBRA and hold.

**TDZE**

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 6°C (43°F) or above 54°C (130°F). Simultaneous approach authorized with ILS or LOC RWY 27. DME/DME RNP-0.3 NA. LNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations.

**MISSED APPROACH:** Climb to 800 then climbing right turn to 3000 direct BRBRA and hold.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 5°C (41°F) or above 54°C (130°F). Simultaneous approach authorized with Rwy 9. Rwy 8L helicopter visibility reduction below ½ SM NA. LNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations.

**MISSED APPROACH:** Climb to 800 then climbing left turn to 3000 direct BRBRA and hold.

**RNP APCH.**
RNAV (GPS) RWY 9

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 5°C (41°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Simultaneous approach authorized with ILS or LOC Rwy 8R and RNAV (GPS) Rwy 8L. RNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations. Helicopter visibility reduction below RVR 4000 NA. For inop MALSR, increase LPV Cat E visibility to RVR 4000, LNAV/VNAV Cat E visibility to 1 ½ mile, LNAV Cats A and B visibility to RVR 5500 and Cats C, D, and E visibility to 1 ½ mile. **RVR 1800 authorized with use of FD or AP or HUD to DA.

Procedure NA for arrivals at VKZ VOR/DME on V159 southbound.

Holding Pattern

<table>
<thead>
<tr>
<th>Category</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>LPV DA**</td>
<td>207/24</td>
<td>200 (200-½)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LNAV VNAV DA</td>
<td>428/46</td>
<td>421 (500-1)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LNAV MDA</td>
<td>460/40</td>
<td>453 (500-½)</td>
<td>460/45</td>
<td>453 (500-½)</td>
<td></td>
</tr>
</tbody>
</table>

CAUTION: Lights on highway ¼ mile south of final approach course may be mistaken for runway.
**RNAV (RNP) Y RWY 12**

**MIAMI INTL (MIA)**

**D-ATIS**
- 119.15
- 133.675

**MID-ATIS**
- 127.5
- 121.8
- 348.6
- 135.35

**UTIL CON**
- 8579
- 8
- 461/50
- 453 (500-1)

---

**Procedure NA for arrivals at WORPP via V529 northwest bound, V35 westbound.**

**Procedure NA for arrivals at FOGSO via V157 westbound.**

**Procedure NA below 6°C (42°F) or above 49°C (120°F).**

**MISSED APPROACH:** Climb to 3000 direct VAYQO and via 109° track to VKZ VOR/DME and hold, continue climb-in-hold to 3000.

**Necessary equipment**
- GPS Required
- For inoperative MALSR, increase 0.30 all Cats visibility to 1/4. For uncompensated Baro-VNAV systems, procedure NA below 6°C (42°F) or above 49°C (120°F).

**CLNC DEL**
- 1049
- 1049
- 1049

---

**RNAV (RNP) Y RWY 12**

**MIA (MIAMI INTL)**

**Category A**

- MSA RWY 12 25 NM

- 2900

- 3000

- GLRIA (IF)

- 3000

- GLRIA (IF)

- 3000

- PIANA

- 2000

- RW12

**3000**

**124° to RW12**

**Turn NA**

**VGS and RNAV glidepath not coincident**

**VGSI Angle 3.00/TCH 72**

**VEPCO**

**GP 3.00° TCH 56**

**6 NM**

**3.1 NM**

**6 NM**

**A**

**B**

**C**

**D**

**RNP 0.30 DA**

**461/50 453 (500-1)**

**AUTHORIZATION REQUIRED**
For uncompensated Baro-VNAV systems, procedure NA below 6°C (43°F) or above 54°C (130°F). GPS Required.

For inop MALSF, increase RNP 0.20 Cat D visibility to RVR 6000 and increase RNP 0.30 Cat D visibility to 1½ mile.

MISSED APPROACH: Climb to 2000 direct LAWNN and on track 345° to BRBRA and hold.

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00°/TCH 73).

SE-3, 10 SEP 2020 to 08 OCT 2020
RNAV (RNP) Y RWY 27
MIAMI INTL (MIA)

For uncompensated Baro-VNAV systems, procedure NA below 6°C (43°F) or above 54°C (130°F). GPS Required.
For inop MALSR, increase RNP 0.11 all Cats visibility to RVR 5000 and RNP 0.30 all Cats visibility to 1/4 mile.

MISSED APPROACH: Climb to 2000 direct TUHWU and on track 342° to BRBRA and hold.

AUTHORIZATION REQUIRED

ELEV 9  TDZE 8

RNAV (RNP) Y RWY 27
MIAMI INTL (MIA)

Amdt 2A  13OCT16

MIAMI, FLORIDA

App Crs 272°
Rwy Idg 12755
Tdz 8
Apt Elev 9

SE-3, 10 SEP 2020 to 08 OCT 2020
RNAV (RNP) Y RWY 30
MIAMI INTL (MIA)

**App CRS**
- **Rwy Idg**: 7913
- **TDZE**: 8
- **Apt Elev**: 9

**A**
For inoperative MALS, increase RNP 0.23 all Cats visibility to 1½.
RNP 0.30 all Cats to 1¾. GPS Required.
For uncompensated Baro-VNAV systems, procedure NA below 4°C (40°F) or above 48°C (119°F).

**NA**

**MALS**
- MISSED APPROACH: Climb to 3000 feet direct VEPCO and via 342° track to BRBRA and hold.

**GND CON**
- **MIA**: 256.9
- **BL/BR**: 127.5
- **9/27/30**

**CLNC DEL**
- **V**
- **3000**
- **2900**
- **R**

**ANT**
- **342°**
- **(VGSI Angle 3.00°/TCH 71)**.

**V**
- **GPS and RNAV glidepath not coincident (VGSI Angle 3.00°/TCH 71).**

**TDZE**
- **8**

**Authorization Required**

**M**

SE-3, 10 SEP 2020 to 08 OCT 2020
RNAV (RNP) Y RWY 8R
MIAMI INTL (MIA)

For uncompensated Baro-VNAV systems, procedure NA below 6°C (43°F) or above 54°C (130°F). GPS required. For inop MALSR, increase RNP 0.11 all Cats visibility to 1½ mile.

*Missed approach requires minimum climb of 330 feet per NM to 600.

MALSR

MISSED APPROACH: Climb to 3000 direct EWKIF and on track 127° to VKZ, VOR/DME and hold, continue climb-in-hold to 3000.

D-ATIS

ARR 119.15 [MIAMI APP CON 124.85 322.3] MIAMI TOWER 118.3 256.9 GND CON 121.8 (BL/BR/12/26L/26R) 127.5 (9/27/30) CLNC DEL 348.6 CPDLC

Procedure NA for arrivals at WORPP on V529 northbound, V35 westbound.

(VGSI Angle 3.00°/TCH 77).

VGSI and RNAV glidepath not coincident.

GPD 3.00° TCH 51

CATEGORY A B C D

* RNP 0.11 DA 397/45 389 (400-½)

RNP 0.30 DA 458/50 450 (500-1)

AUTHORIZATION REQUIRED
RNAV (GPS) Z RWY 12
MIA INTERNATIONAL (MIA)
MIA INTERNATIONAL TOWER (MIA)

For inoperative MALSR, increase LPV DA all Cats visibility to 1 1/2, increase LNAV MDA Cats A and B visibility to RVR 5000. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 3000 direct VAYQO and via 109° track to VKZ VOR/DME and hold, continue climb-in-hold to 3000.

Procedure NA for arrivals at WORPP via V35 westbound and via V529 northwest bound.

Procedure NA for arrivals at FOGSO via V157 westbound.

Procedure NA for arrivals at VIRGINIA KEY via V1097 westbound.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

For inoperative MALSR, increase LPV DA all Cats visibility to 1 1/2, increase LNAV MDA Cats A and B visibility to RVR 5000. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 3000 direct VAYQO and via 109° track to VKZ VOR/DME and hold, continue climb-in-hold to 3000.

Procedure NA for arrivals at WORPP via V35 westbound and via V529 northwest bound.

Procedure NA for arrivals at FOGSO via V157 westbound.

Procedure NA for arrivals at VIRGINIA KEY via V1097 westbound.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
RNAV (GPS) Z RWY 27

MIAMI INTL (MIA)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 6°C (43°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. For inop MALSR, increase LPV Cat E visibility to RVR 4000, LNAV/VNAV all Cats visibility to 1½ mile, and LNAV Cat E visibility to 1½ mile. **RVR 1800 authorized with use of FD or AP or HUD to DA.

**LPV  Cat E visibility to RVR 4000, LNAV/VNAV all Cats visibility to 1½ mile, and LNAV Cat E visibility to 1½ mile. **RVR 1800 authorized with use of FD or AP or HUD to DA.

**LPV  Cat E visibility to RVR 4000, LNAV/VNAV all Cats visibility to 1½ mile, and LNAV Cat E visibility to 1½ mile. **RVR 1800 authorized with use of FD or AP or HUD to DA.

**LPV  Cat E visibility to RVR 4000, LNAV/VNAV all Cats visibility to 1½ mile, and LNAV Cat E visibility to 1½ mile. **RVR 1800 authorized with use of FD or AP or HUD to DA.

**LPV  Cat E visibility to RVR 4000, LNAV/VNAV all Cats visibility to 1½ mile, and LNAV Cat E visibility to 1½ mile. **RVR 1800 authorized with use of FD or AP or HUD to DA.
RNAV (GPS) Z RWY 30
MIAMI INTL (MIA)

**MALS**

**MISSED APPROACH:** Climb to 3000 direct IPFAH and via 329° track to BRBRA and hold.

**Procedure NA for arrivals at HILEY via V295 northbound.**

**RNAV only:**

*VGSi and LPV glidepath not coincident (VGSi Angle 3.00/TCH 71).*

**Turn NA**
RNAV (GPS) Z RWY 8R

MIAINTL (MIA)

Rwy 8R helicopter visibility reduction below RVR 4000 NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 8°C or above 54°C. For inop ALS, increase LPV all Cats visibility to RVR 4500, LNAV/VNAV Cats C and D visibility to 1/2 SM and LNAV Cats A and B visibility to RVR 5500.

Procedure NA for arrivals at WORPP on V35 westbound and on V529 northwest bound.

Procedure NA for arrivals at FOGSO on V157 westbound.

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 77).

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>LPV DA</th>
<th>LNAV/VNAV DA</th>
<th>LNAV MDA</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>277/40</td>
<td>531/60</td>
<td>600/40</td>
</tr>
<tr>
<td>B</td>
<td>268</td>
<td>522</td>
<td>591</td>
</tr>
<tr>
<td>C</td>
<td>300-3/4</td>
<td>600-1/4</td>
<td>600-1/4</td>
</tr>
<tr>
<td>D</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
LAND AND HOLD-SHORT OPERATIONS (LAHSO)

LAHSO is an acronym for "Land and Hold-Short Operations." These operations include landing and holding short of an intersection runway, an intersecting taxiway, or other predetermined points on the runway other than a runway or taxiway. Measured distance represents the available landing distance on the landing runway, in feet.

Specific questions regarding these distances should be referred to the air traffic manager of the facility concerned. The Aeronautical Information Manual contains specific details on hold-short operations and markings.

<table>
<thead>
<tr>
<th>CITY/AIRPORT</th>
<th>LDG RWY</th>
<th>HOLD-SHORT POINT</th>
<th>AVBL LDG DIST</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAYTONA BEACH, FL</td>
<td>DAYTONA BEACH INTL (DAB)</td>
<td>07L TWY W</td>
<td>7,500 feet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>16 07L-25R</td>
<td>2,900 feet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>34 07L-25R</td>
<td>2,564 feet</td>
</tr>
<tr>
<td>FORT LAUDERDALE, FL</td>
<td>FORT LAUDERDALE EXECUTIVE (FXE)</td>
<td>26 13-31</td>
<td>3,000 feet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>31 09-27</td>
<td>3,250 feet</td>
</tr>
<tr>
<td>JACKSONVILLE, FL</td>
<td>JACKSONVILLE EXECUTIVE AT CRAIG (CRG)</td>
<td>05 14-32</td>
<td>3,600 feet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>14 05-23</td>
<td>3,650 feet</td>
</tr>
<tr>
<td>LAKELAND, FL</td>
<td>LAKELAND LINDER RGNL (LAL)</td>
<td>05 09-27</td>
<td>2,500 feet</td>
</tr>
<tr>
<td>MIAMI, FL</td>
<td>MIAMI INTL (MIA)</td>
<td>09 12-30</td>
<td>9,749 feet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12 09-27</td>
<td>8,100 feet</td>
</tr>
<tr>
<td>ORLANDO, FL</td>
<td>EXECUTIVE (ORL)</td>
<td>25 13-31</td>
<td>4,150 feet</td>
</tr>
<tr>
<td></td>
<td>ORLANDO SANFORD (SFB)</td>
<td>09C 18-36</td>
<td>3,150 feet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>09L 18-36</td>
<td>5,500 feet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>18 09R-27L</td>
<td>4,600 feet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>36 09L-27R</td>
<td>5,170 feet</td>
</tr>
<tr>
<td>ST. PETERSBURG-CLEARWATER, FL</td>
<td>ST. PETERSBURG-CLEARWATER INTL (PIE)</td>
<td>18 04-22</td>
<td>7,557 feet</td>
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<tr>
<td></td>
<td></td>
<td>22 18-36</td>
<td>4,514 feet</td>
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<tr>
<td>SARASOTA (BRADENTON), FL</td>
<td>SARASOTA/BRADENTON INTL (SRQ)</td>
<td>14 04-22</td>
<td>3,800 feet</td>
</tr>
<tr>
<td>TAMPA, FL</td>
<td>TAMPA INTL (TPA)</td>
<td>19L 10-28</td>
<td>5,650 feet</td>
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<tr>
<td></td>
<td></td>
<td>28 01R-19L</td>
<td>4,350 feet</td>
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<tr>
<td>TITUSVILLE, FL</td>
<td>SPACE COAST RGNL (TIX)</td>
<td>09 18-36</td>
<td>4,225 feet</td>
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<td></td>
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<td>36 09-27</td>
<td>3,750 feet</td>
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<tr>
<td>VERO BEACH, FL</td>
<td>VERO BEACH RGNL (VRB)</td>
<td>30L 04-22</td>
<td>4,700 feet</td>
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<tr>
<td>WEST PALM BEACH, FL</td>
<td>PALM BEACH INTL (PBI)</td>
<td>10L 14-32</td>
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<td></td>
<td>14 10L-28R</td>
<td>4,295 feet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>28R 14-32</td>
<td>3,725 feet</td>
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</table>
INSTRUMENT APPROACH PROCEDURE CHARTS

IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non-precision approaches and approaches with vertical guidance [NDB, VOR, LOC, TACAN, LDA, SDF, VOR/DEME, ASR, RNAV (GPS) or RNAV (RNP)] are 800-2. Standard alternate minimums for precision approaches (ILS, PAR, or GLS) are 600-2. Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility, absence of weather reporting service, or lack of adequate navigation coverage. Civil pilots see FAR 91. IFR Alternate Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Minimums Notes for alternate airfield suitability.

<table>
<thead>
<tr>
<th>NAME</th>
<th>ALTERNATE MINIMUMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>APALACHICOLA, FL</td>
<td>ALTERNATE MINIMUMS for APALACHICOLA RGNL-CLEVE RANDOLPH FIELD (AAF) RNAV (GPS) Rwy 6 RNAV (GPS) Rwy 14 RNAV (GPS) Rwy 24 RNAV (GPS) Rwy 32 NA when local weather not available.</td>
</tr>
<tr>
<td>BARTOW, FL</td>
<td>EXECUTIVE (BOW) RNAV (GPS) Rwy 5 RNAV (GPS) Rwy 9L RNAV (GPS) Rwy 23 RNAV (GPS) Rwy 27R NA when local weather not available.</td>
</tr>
<tr>
<td>BOCA RATON, FL</td>
<td>BOCA RATON (BCT) RNAV (GPS) Rwy 5 RNAV (GPS) Y Rwy 23¹ NA when local weather not available. ¹Category D, 900-2¾.</td>
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<tr>
<td>BONIFAY, FL</td>
<td>TRI-COUNTY (1J0) RNAV (GPS) Rwy 19 NA when local weather not available.</td>
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<tr>
<td>BROOKSVILLE, FL</td>
<td>BROOKSVILLE-TAMPA BAY RGNL (BKV) RNAV (GPS) Rwy 3 RNAV (GPS) Rwy 9 RNAV (GPS) Rwy 21 RNAV (GPS) Rwy 27 NA when local weather not available.</td>
</tr>
<tr>
<td>CHARLOTTE AMALIE, VI</td>
<td>CYRIL E KING (STT) ILS or LOC Rwy 10¹³ RNAV (GPS) Rwy 10¹² VOR-A, 1200-3 ¹NA when control tower closed. ²Categories A, B, 1000-2¾, Category C, 1000-2¾, Category D, 1000-3 ³ILS, 700-2.</td>
</tr>
<tr>
<td>CHRISTIANSTED, ST. CROIX, VI</td>
<td>HENRY E ROHLSEN (STX) ILS or LOC Rwy 10¹ NA when control tower closed. ²Category A, B, 1200-2; Category C, D, 1200-3. ³Category A, B, 1000-2; Category C, D, 1000-3. ⁴Category A, B, 900-2; Category C, D, 900-3.</td>
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<tr>
<td>CRESTVIEW, FL</td>
<td>BOB SIKES (CEW) RNAV (GPS) Rwy 17 RNAV (GPS) Rwy 35 VOR-A¹ NA when local weather not available. ¹Category D, 800-2¾.</td>
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<tr>
<td>CRYSTAL RIVER, FL</td>
<td>CRYSTAL RIVER-CAPTAIN TOM DAVIS FIELD (CGC) RNAV (GPS) Rwy 9 RNAV (GPS) Rwy 27 NA when local weather not available. Category C, 800-2¾; Category D, 900-2¾.</td>
</tr>
<tr>
<td>DAYTONA BEACH, FL</td>
<td>DAYTONA BEACH INTL (DAB) ILS or LOC Rwy 7L¹ ILS or LOC Rwy 25R² NA when control tower closed. ¹ILS, Categories A, B, C, D, 700-2. ²ILS, LOC, Categories A, B, 1100-2; Category C, D, 1100-3.</td>
</tr>
<tr>
<td>DELAND, FL</td>
<td>DELAND MUNI- SIDNEY H. TAYLOR FIELD (DED) RNAV (GPS) Rwy 5 RNAV (GPS) Rwy 12 RNAV (GPS) Rwy 23 RNAV (GPS) Rwy 30 NA when local weather not available.</td>
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<table>
<thead>
<tr>
<th>NAME</th>
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<td>DESTIN, FL</td>
<td>RNAV (GPS) Rwy 14</td>
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<tr>
<td>EXECUTIVE (DTS)</td>
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<tr>
<td>NA when local weather not available.</td>
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<tr>
<td>FERNANDINA BEACH, FL</td>
<td>RNAV (GPS) Rwy 4</td>
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<tr>
<td>MUNI (FHB)</td>
<td>RNAV (GPS) Rwy 13</td>
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<tr>
<td>RNAV (GPS) Rwy 22</td>
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<tr>
<td>NA when local weather not available.</td>
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<tr>
<td>FORT LAUDERDALE, FL</td>
<td>ILS or LOC Rwy 9</td>
</tr>
<tr>
<td>EXECUTIVE (FXE)</td>
<td>RNAV (GPS) Rwy 9</td>
</tr>
<tr>
<td>RNAV (GPS) Rwy 27</td>
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<tr>
<td>NA when local weather not available.</td>
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<tr>
<td>FORT LAUDERDALE/HOLLYWOOD</td>
<td>ILS or LOC Rwy 10R</td>
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<tr>
<td>CECIL (VQQ).</td>
<td>ILS or LOC Rwy 10R</td>
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<tr>
<td>RNAV (GPS) Rwy 28L</td>
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<tr>
<td>RNAV (GPS) Rwy 28R</td>
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<tr>
<td>RNAV (GPS) Z Rwy 10L</td>
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<tr>
<td>RNAV (GPS) Y Rwy 28R</td>
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<tr>
<td>NA when local weather not available.</td>
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<td>INVERNESS, FL</td>
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<td>INVERNESS (INF).</td>
<td>RNAV (GPS) Rwy 19</td>
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<tr>
<td>JACKSONVILLE, FL</td>
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<tr>
<td>CECIL (VQQ).</td>
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<tr>
<td>RNAV (GPS) Rwy 18L</td>
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<tr>
<td>RNAV (GPS) Rwy 27L</td>
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<tr>
<td>TACAN Rwy 27L</td>
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<td>NA when local weather not available.</td>
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<tr>
<td>JACKSONVILLE EXECUTIVE AT CRAIG (CRG).</td>
<td>ILS or LOC Rwy 32</td>
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<tr>
<td>ILS or LOC Rwy 14R</td>
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<tr>
<td>RNAV (GPS) Rwy 32</td>
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<tr>
<td>VOR Rwy 14</td>
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<tr>
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<tr>
<td>JACKSONVILLE</td>
<td>ILS or LOC Rwy 8</td>
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<tr>
<td>INTL (JAX).</td>
<td>ILS or LOC Rwy 14</td>
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<tr>
<td>RNAV (GPS) Rwy 32</td>
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<tr>
<td>RNAV (GPS) Rwy 32</td>
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<tr>
<td>VOR/DME Rwy 32</td>
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<tr>
<td>NA when local weather not available.</td>
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<tr>
<td>KEY WEST, FL</td>
<td>RNAV (GPS) Rwy 9</td>
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<tr>
<td>KEY WEST INTL (EYW).</td>
<td>RNAV (GPS) Rwy 27</td>
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<tr>
<td>NA when local weather not available.</td>
<td></td>
</tr>
<tr>
<td>NAME</td>
<td>ALTERNATE MINIMUMS</td>
</tr>
<tr>
<td>--------------------</td>
<td>-----------------------------------------------------------------------------------</td>
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</tbody>
</table>
| LAKE CITY, FL      | LDLCITY GateWay (LCQ)..............................RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28
NA when local weather not available. |
| LAKELAND, FL       | LAKELAND LINDER INTL (LAL).................ILS or LOC Rwy 9\(^1\)
RNAV (GPS) Rwy 5
RNAV (GPS) Rwy 9
RNAV (GPS) Rwy 23
RNAV (GPS) Rwy 27
VOR Rwy 9
VOR Rwy 27\(^2\)
NA when local weather not available. |
| LAKE WALES, FL     | LAKE WALES MUNI (X07)..............................RNAV (GPS) Rwy 6
NA when local weather not available. |
| LEESBURG, FL       | LEESBURG INTL (LEE)............................RNAV (GPS) Rwy 3
RNAV (GPS) Rwy 13
RNAV (GPS) Rwy 31
NA when local weather not available. |
| LIVE OAK, FL       | LIVE OAK SUWANNEE COUNTY (24J).............RNAV (GPS) Rwy 25
NA when local weather not available. |
| MARATHON, FL       | MARATHON INTL (MTH).............................NDB-A
RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 25
NA when local weather not available. |
| MARIANNA, FL       | MARIANNA MUNI (MAI)..............................RNAV (GPS) Rwy 18
NDB-C\(^1\)
VOR-A
VOR-B
Category D, 800-2½.
\(^1\)NA when local weather not available. |
| MAYAGUEZ, PR       | EUGENIO MARIA DE HOSTOS (MAZ)..............RNAV (GPS) Rwy 9
VOR Rwy 9
Categories A, B, 1100-2; Category C, 1100-3.
NA except standard for operators with approved weather reporting service. |
| MIAMI, FL          | MIAMI EXECUTIVE (TMB)..........................ILS or LOC Rwy 9\(^1\)
RNAV (GPS) Rwy 9L
RNAV (GPS) Rwy 9R
NA when control tower closed. |
| MIAMI INTL (MIA)   | MIAMI INTL (MIA)...............................ILS or LOC Rwy 26L\(^1\)
ILS or LOC Rwy 27\(^2\)
1LOC, Categories A, B, 900-2, Categories C, D, 900-2½.
2LOC, Categories A, B, 1300-2, Categories C, D, E, 1300-3. |
| MIAMI-OPA LOCKA    | MIAMI-OPA LOCKA EXECUTIVE (OPF)..............ILS or LOC Rwy 9\(^1\)
ILS or LOC Rwy 12\(^1\)
ILS or LOC Rwy 27\(^2\)
RNAV (GPS) Rwy 12
RNAV (GPS) Rwy 27R
NA when control tower closed. |
| NAPLES, FL         | NAPLES MUNI (APF)..............................RNAV (GPS)-A\(^1\)
RNAV (GPS)-B\(^1\)
RNAV (GPS) Rwy 5
RNAV (GPS) Rwy 23
NA when local weather not available.
\(^1\)Category D, 800-2½. |
| NEW SMYRNA BEACH, FL| NEW SMYRNA BEACH MUNI (EVB)..................RNAV (GPS) Rwy 2\(^1\)
RNAV (GPS) Rwy 7\(^1\)
RNAV (GPS) Rwy 25
RNAV (GPS) Rwy 29
NA when local weather not available.
\(^1\)Category D, 800-2½. |
<table>
<thead>
<tr>
<th>NAME</th>
<th>ALTERNATE MINIMUMS</th>
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<td>OCALA, FL</td>
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<td>Ocala Int'l-Jim Taylor Field (OCF)</td>
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<td>OKEECHOBEE, FL</td>
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<td>Okeechobee County (OBE)</td>
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<td>ORLANDO, FL</td>
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<tr>
<td>Executive (ORL)</td>
<td>ILS or LOC Rwy 7¹²</td>
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<td>ILS or LOC Rwy 25¹²</td>
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<td>RNAV (GPS) Rwy 25³</td>
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<td>¹NA when control tower closed.</td>
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<tr>
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<td>²ILS, LOC, Category C, 800-2¼; Category D, 800-2½.</td>
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<td>³Category C, 800-2¼; Category D, 800-2½.</td>
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<td>KISSIMMEE</td>
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<td>Gateway (ISM)</td>
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<tr>
<td></td>
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<td>ORMOND BEACH, FL</td>
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<td>Ormond Beach Muni (OMN)</td>
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<td>RNAV (GPS) Rwy 27</td>
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<tr>
<td>PALATKA, FL</td>
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<td>Palatka Muni-Lt Kay Larkin Field (28J)</td>
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<td>PALM COAST, FL</td>
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<td>Flagler Executive (FIN)</td>
<td>RNAV (GPS) Rwy 6</td>
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<td>RNAV (GPS) Rwy 29</td>
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<td>Category D, 800-2½.</td>
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<tr>
<td>PANAMA CITY, FL</td>
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<td>Northwest Florida Beaches Intl (ECP)</td>
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<td>RNAV (GPS) Rwy 34</td>
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<td>NA when control tower closed.</td>
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<td>Pensacola Intl (PNS)</td>
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<td>VOR Rwy 8²</td>
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<td>²Category D, 800-2¼.</td>
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<td>PERRY, FL</td>
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<tr>
<td>Perry-Foley (FPY)</td>
<td>RNAV (GPS) Rwy 18¹</td>
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<td>RNAV (GPS) Rwy 36²</td>
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<td>¹Categories A, B, C, 1000-3; Category D, 900-2½.</td>
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<td>²Category D, 900-2½.</td>
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<td>PLANT CITY, FL</td>
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<td>Plant City (PCM)</td>
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<td>RNAV (GPS) Rwy 28</td>
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<td>Pompano Beach Airpark (PMP)</td>
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</tr>
<tr>
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<td>¹NA when control tower closed.</td>
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**Name:** ALTERNATE MINS

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<table>
<thead>
<tr>
<th>NAME</th>
<th>ALTERNATE MINIMUMS</th>
</tr>
</thead>
</table>
| PUNTA GORDA, FL | ILS or LOC Rwy 4<sup>12</sup>  
RNAV (GPS) Rwy 4<sup>3</sup>  
RNAV (GPS) Rwy 15<sup>3</sup>  
RNAV (GPS) Rwy 22<sup>3</sup>  
RNAV (GPS) Rwy 33<sup>3</sup>  
VOR Rwy 4<sup>4</sup>  
VOR Rwy 22<sup>3</sup>  
NA when local weather not available.  
<sup>1</sup>NA when control tower closed.  
<sup>2</sup>ILS, LOC, Category D, 800-2½.  
<sup>3</sup>Category D, 800-2½. |
| ST. AUGUSTINE, FL | ILS or LOC Rwy 31<sup>12</sup>  
RNAV (GPS) Rwy 13<sup>3</sup>  
RNAV (GPS) Rwy 31<sup>4</sup>  
<sup>1</sup>NA when control tower closed.  
<sup>2</sup>ILS, Category C, 700-2; Category D, 800-2½;  
LOC, Category D, 800-2½.  
<sup>3</sup>NA when local weather not available.  
<sup>4</sup>Category D, 800-2½. |
| ST. PETERSBURG, FL | RNAV (GPS) Rwy 7<sup>1</sup>  
RNAV (GPS) Rwy 18<sup>12</sup>  
RNAV (GPS) Rwy 36<sup>2</sup>  
VOR Rwy 18<sup>3</sup>  
<sup>1</sup>NA when local weather not available.  
<sup>2</sup>Categories A, B, 900-2.  
<sup>3</sup>Categories A, B, 1000-2. |
| ST. PETERSBURG-CLEARWATER, FL | RNAV (GPS) Rwy 18<sup>12</sup>  
ILS or LOC Rwy 18<sup>13</sup>  
ILS or LOC Rwy 36<sup>13</sup>  
RNAV (GPS) Rwy 36<sup>4</sup>  
VOR Rwy 4<sup>45</sup>  
<sup>1</sup>NA when control tower closed.  
<sup>2</sup>LOC, Category E, 1000-3.  
<sup>3</sup>ILS, Categories A, B, C, D, 700-2;  
Category E, 1000-3; LOC, Category E, 1000-3.  
<sup>4</sup>NA when local weather not available.  
<sup>5</sup>Categories A, B, 1000-2; Category C, D, 1000-3. |
| SARASOTA/BRADENTON, FL | ILS or LOC Rwy 14<sup>14</sup>  
RNAV (GPS) Rwy 32<sup>2</sup>  
NA when local weather not available.  
<sup>1</sup>NA when control tower closed.  
<sup>2</sup>Category D, 900-2½. |
| TALLAHASSEE, FL | ILS or LOC Rwy 27<sup>12</sup>  
ILS or LOC Rwy 36<sup>13</sup>  
RADAR-1<sup>4</sup>  
RNAV (GPS) Rwy 9<sup>4</sup>  
RNAV (GPS) Rwy 18<sup>4</sup>  
RNAV (GPS) Rwy 27<sup>4</sup>  
RNAV (GPS) Rwy 36<sup>4</sup>  
VOR/DME or TACAN Rwy 36<sup>5</sup>  
VOR Rwy 18<sup>46</sup>  
<sup>1</sup>NA when control tower closed.  
<sup>2</sup>ILS, Categories A, B, C 800-2; Category D, 800-2½; Category E, 1000-3; LOC, Category D, 800-2½; Category E, 1000-3.  
<sup>3</sup>ILS, Category D, 700-2½; LOC, Category D, 800-2½.  
<sup>4</sup>Category D, 800-2½.  
<sup>5</sup>Category D, 800-2½; Category E, 1000-3.  
<sup>6</sup>NA when local weather not available. |
| TAMPA, FL | RNAV (GPS) Rwy 22  
RNAV (GPS) Rwy 36  
NA when local weather not available. |
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TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR takeoff minimums other than standard, are listed below. Takeoff Minimums and Departure Procedures apply to all runways unless otherwise specified. An entry may also be listed that contains only Takeoff Obstacle Notes. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are textually described below, or published separately as a graphic procedure. If the ODP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or the applicable military volume, as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not specifically assigned an ODP, SID, or radar vector as part of an IFR clearance, an ODP may be required to be flown for obstacle clearance, even though not specifically stated in the IFR clearance. When doing so in this manner, ATC should be informed when the ODP being used contains a specified route to be flown, restrictions before turning, and/or altitude restrictions.

Some ODPs, which are established solely for obstacle avoidance, require a climb in visual conditions to cross the airport, a fix, or a NAVAID in a specified direction, at or above a specified altitude. These procedures are called Visual Climb Over Airport (VCOA). To ensure safe and efficient operations, the pilot must verbally request approval from ATC to fly the VCOA when requesting their IFR clearance.

At some locations where an ODP has been established, a diverse vector area (DVA) may be created to allow radar vectors to be used in lieu of an ODP. DVA information will state that headings will be as assigned by ATC and climb gradients, when applicable, will be published immediately following the specified departure procedure.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard takeoff rules and establishes takeoff minimums for certain operators as follows: (1) For aircraft, other than helicopters, having two engines or less – one statute mile visibility. (2) For aircraft having more than two engines – one-half statute mile visibility. (3) For helicopters – one-half statute mile visibility. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) takeoff minima are published below. For military takeoff minima, refer to appropriate service directives.

AGUADILLA, PR

RAFAEL HERNANDEZ (BQN)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 12MAR09 (09071) (FAA)

DEPARTURE PROCEDURE:

Rwy 8, climb on a heading between 262° CW to 158° from DER.
Rwy 26, climb on a heading between 230° CW to 082° from DER.

TAKEOFF OBSTACLE NOTES:

Rwy 8, vehicles on roadway beginning 1489’ from DER, left and right of centerline, up to 15’ AGL/242’ MSL.
Rwy 26, vehicles on roadway beginning 751’ from DER, left and right of centerline, up to 17’ AGL/275’ MSL.

APALACHICOLA, FL

APALACHICOLA RGNL-CLEVE RANDOLPH FIELD (AAF)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 24JUL14 (14205) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 6, trees beginning 1152’ from DER, 97’ left of centerline, up to 83’ AGL/101’ MSL.
Trees beginning 22’ from DER, 14’ right of centerline, up to 89’ AGL/108’ MSL.
Rwy 14, trees beginning 32’ from DER, 63’ left of centerline, up to 78’ AGL/97’ MSL.
Trees beginning 2137’ from DER, 67’ right of centerline, up to 89’ AGL/99’ MSL.
Rwy 18, trees beginning 513’ from DER, 193’ right of centerline, 100’ AGL/120’ MSL.
Rwy 24, trees beginning 71’ from DER, 77’ left of centerline, up to 76’ AGL/88’ MSL.
Poles beginning 583’ from DER, 268’ left of centerline, up to 28’ AGL/47’ MSL.
Bush 1018’ from DER, 88’ left of centerline, up to 47’ AGL/47’ MSL.
Rwy 32, trees beginning 52’ from DER, 88’ left of centerline, up to 69’ AGL/82’ MSL.
Trees beginning 137’ from DER, 75’ right of centerline, up to 71’ AGL/87’ MSL.
Rwy 36, trees beginning 3048’ from DER, 327’ left of centerline, 100’ AGL/113’ MSL.
Tree 1397’ from DER, 44’ right of centerline, 100’ AGL/109’ MSL.
APOPKA, FL
ORLANDO APOPKA (X04)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG  20SEP12  (12264)  (FAA)
TAKEOFF MINIMUMS:
Rwy 15, 300-2 or std. w/min. climb of 263’ per NM to 400.
Rwy 33, 400-1½ or std. w/min. climb of 325’ per NM to 600.
TAKEOFF OBSTACLE NOTES:
Rwy 15, trees beginning at DER, 173’ left of centerline, up to 100’ AGL/229’ MSL.
Railroad and vehicles beginning at DER, 181’ left of centerline, up to 23’ AGL/152’ MSL.
Trees beginning 214’ from DER, 552’ right of centerline, up to 100’ AGL/189’ MSL.
Poles beginning 230’ from DER, 239’ left of centerline, up to 49’ AGL/178’ MSL.
Tower 5781’ from DER, 1326’ left of centerline, 199’ AGL/317’ MSL.
Rwy 33, trees beginning 2’ from DER, 183’ left of centerline, up to 100’ AGL/249’ MSL.
Poles beginning 7’ from DER, 61’ right of centerline, up to 49’ AGL/198’ MSL.
Railroad and vehicles beginning 36’ from DER, 90’ right of centerline, up to 23’ AGL/172’ MSL.
Antenna 1166’ from DER, 539’ left of centerline, 29’ AGL/173’ MSL.
Tower 1.2 NM from DER, 2338’ left of centerline, 350’ AGL/421’ MSL.

ARCADIA, FL
ARCADIA MUNI (X06)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG  29MAY14  (14149)  (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 5, trees beginning 6’ from DER, 107’ left of centerline, up to 20’ AGL/81’ MSL.
Rwy 23, vehicle on road 234’ from DER, 538’ right of centerline 15’ AGL/74’ MSL.
Trees beginning 315’ from DER, 120’ left of centerline, up to 50’ AGL/109’ MSL.
Trees beginning 340’ from DER, 435’ right of centerline, up to 40’ AGL/95’ MSL.
Building 449’ from DER, 409’ left of centerline, 25’ AGL/84’ MSL.

AVON PARK, FL
AVON PARK EXECUTIVE (AVO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1  17DEC09  (09351)  (FAA)
TAKEOFF MINIMUMS:
Rwy 5, 300-1 or std. w/ min. climb of 430’ per NM to 500.
TAKEOFF OBSTACLE NOTES:
Rwy 5, trees beginning 219’ from DER, 84’ left of centerline, up to 100’ AGL/284’ MSL.
Trees beginning 1007’ from DER, 298’ right of centerline, up to 100’ AGL/289’ MSL.
Building 327’ from DER, 431’ right of centerline, 21’ AGL/182’ MSL.
Rwy 10, buildings beginning 293’ from DER, 251’ left of centerline, up to 30’ AGL/285’ MSL.
Line of trees beginning 298’ from DER, 149’ right to 229’ left of centerline, up to 100’ AGL/269’ MSL.
Rwy 23, trees beginning 52’ from DER, 118’ right of centerline, up to 26’ AGL/186’ MSL.
Trees beginning 23’ from DER, 93’ left of centerline, up to 36’ AGL/198’ MSL.
Power lines beginning 2691’ from DER, 1019’ left to 2034’ right of centerline, up to 79’ AGL/235’ MSL.
Rwy 28, numerous trees beginning 371’ from DER, 218’ right of centerline, up to 100’ AGL/259’ MSL.
Buildings and light poles beginning 1491’ from DER, 187’ left of centerline, up to 40’ AGL/194’ MSL.
Power pylons beginning 2082’ from DER, 935’ left to 252’ right of centerline, up to 79’ AGL/233’ MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

BARTOW, FL
BARTOW EXECUTIVE (BOW)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A  15AUG19 (19227)  (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 5, tree 164' from DER, 397' right of centerline, 156' MSL.
Tree 285' from DER, 303' right of centerline, 157' MSL.
Trees beginning 290' from DER, 406' right of centerline, up to 165' MSL.
Trees beginning 414' from DER, 166' right of centerline, up to 166' MSL.
Trees beginning 631' from DER, 59' right of centerline, up to 169' MSL.
Tree 937' from DER, 432' left of centerline, 152' MSL.
Trees beginning 960' from DER, 19' left of centerline, up to 172' MSL.
Trees beginning 1095' from DER, 9' left of centerline, up to 176' MSL.
Trees beginning 1225' from DER, 234' left of centerline, up to 186' MSL.
Trees beginning 1226' from DER, 68' right of centerline, up to 175' MSL.
Trees beginning 1263' from DER, 115' right of centerline, up to 176' MSL.
Trees beginning 1442' from DER, 16' left of centerline, up to 190' MSL.
Tree 1676' from DER, 8' right of centerline, 178' MSL.
Trees beginning 1737' from DER, 31' right of centerline, up to 184' MSL.
Trees beginning 1842' from DER, 53' left of centerline, up to 192' MSL.
Tree 2498' from DER, 278' left of centerline, 196' MSL.
Tree 2613' from DER, 213' left of centerline, 198' MSL.

Rwy 9L, tree 15' from DER, 497' left of centerline, 148' MSL.
Tree 49' from DER, 466' right of centerline, 140' MSL.
Trees beginning 227' from DER, 19' left of centerline, up to 149' MSL.
Trees beginning 911' from DER, 53' right of centerline, up to 173' MSL.
Tree 1260' from DER, 155' left of centerline, 155' MSL.
Tree 1603' from DER, 265' left of centerline, 156' MSL.
Trees beginning 1715' from DER, 261' left of centerline, up to 169' MSL.
Tree 1790' from DER, 163' left of centerline, 170' MSL.
Tree 2256' from DER, 304' left of centerline, 174' MSL.

Rwy 9R, tree 637' from DER, 533' left of centerline, 140' MSL.
Tree 1310' from DER, 253' right of centerline, 167' MSL.
Trees beginning 1499' from DER, 166' left of centerline, up to 173' MSL.
Tree 1695' from DER, 197' right of centerline, 178' MSL.

Rwy 23, tree 143' from DER, 442' left of centerline, 144' MSL.
Tree 289' from DER, 363' left of centerline, 146' MSL.
Tree 299' from DER, 525' left of centerline, 147' MSL.
Tree 416' from DER, 561' left of centerline, 153' MSL.
Trees beginning 418' from DER, 320' left of centerline, up to 158' MSL.
Trees beginning 419' from DER, 395' right of centerline, up to 167' MSL.
Trees beginning 567' from DER, 86' left of centerline, up to 172' MSL.
Tree 842' from DER, 629' right of centerline, 171' MSL.
Trees beginning 865' from DER, 32' right of centerline, up to 175' MSL.
Trees beginning 1730' from DER, 122' left of centerline, up to 180' MSL.
Trees beginning 1777' from DER, 425' right of centerline, up to 176' MSL.
Trees beginning 2136' from DER, 493' right of centerline, up to 179' MSL.

Rwy 27L, tree 939' from DER, 643' left of centerline, 170' MSL.
Tree 2007' from DER, 906' right of centerline, 166' MSL.
Tree 2065' from DER, 517' right of centerline, 167' MSL.
Trees beginning 2338' from DER, 602' right of centerline, up to 175' MSL.
Pole 2554' from DER, 996' right of centerline, 49' AGL/177' MSL.
Tower 2881' from DER, 1015' left of centerline, 50' AGL/187' MSL.
Rwy 27R, pole 1259' from DER, 668' right of centerline, 36' AGL/150' MSL.
Trees beginning 1903' from DER, 410' right of centerline, up to 186' MSL.
Trees beginning 2109' from DER, 158' right of centerline, up to 193' MSL.

BOCA RATON, FL
BOCA RATON (BCT)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG  28SEP06 (06271)  (FAA)
TAKEOFF MINIMUMS:
Rwy 23, 300-1, or std. w/ a min. climb of 230' per NM to 300. Alternatively, with standard takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1700' prior to DER.
TAKEOFF OBSTACLE NOTES:
Rwy 5, numerous trees and poles beginning 185' from DER, 20' left of centerline, up to 35' AGL/49' MSL.
Numerous trees and poles beginning 6' from DER, 267' right of centerline, up to 28' AGL/45' MSL.
Rwy 23, numerous trees, poles, and buildings beginning 278' from DER, 41' left of centerline, up to 137' AGL/154' MSL.
Numerous trees, poles and buildings beginning 626' from DER, 171' right of centerline, up to 154' AGL/171' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

BONIFAY, FL
TRI-COUNTY (1J0)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 07APR88 (88098) (FAA)
DEPARTURE PROCEDURE:
Rwys 1, 19, climb runway heading to 2000 before turning west.

BROOKSVILLE, FL
BROOKSVILLE-TAMPA BAY RGNL (BKV)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 24JUL14 (14205) (FAA)
TAKEOFF MINIMUMS:
Rwy 9, 300-1 1/4 or std. w/ a min. climb of 220' per NM to 300, or alternatively, with standard takeoff minimums and a normal 200'NM climb gradient, takeoff must occur no later than 1200' prior to DER.
TAKEOFF OBSTACLE NOTES:
Rwy 3, obstruction light and trees beginning 297' from DER, 34' right of centerline, up to 81' AGL/151' MSL.
Trees beginning 1681' from DER, 29' left of centerline, up to 83' AGL/153' MSL.

Rwy 21, pole and trees beginning 46' from DER, 27' right of centerline, up to 70' AGL/138' MSL.
Building and trees beginning 108' from DER, 39' left of centerline, up to 85' AGL/155' MSL.
Rwy 27, trees 2143' from DER, 891' left of centerline, up to 92' AGL/171' MSL.

CAPE CANAVERAL AFS SKID STRIP (KXMR)
COCOA BEACH, FL
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 20JUN19 (19171)
DEPARTURE PROCEDURES:
Rwy 13, diverse departure authorized.
Rwy 31, diverse departure authorized 322° CCW to 143° only.
TAKEOFF OBSTACLE NOTES:
Rwy 13, terrain at DER, 419' right of cntrln, 14' MSL.
Terrain 12' from DER, 372' right of cntrln, 13' MSL.
Terrain at DER, 500' left of cntrln, 13' MSL.
Rwy 31, light pole 1795' from DER, 498' left of cntrln, 8' MSL.
Bushes 144' from DER, 500' left of cntrln, 18' MSL.
Pylon 4172' from DER, 380' right of cntrln, 56' AGL/79' MSL.
Pylon 3795' from DER, 363' left of cntrln, 56' AGL/77' MSL.
Bushes 221' from DER, 509' left of cntrln, 18' MSL.
Pylon 3974' from DER, 8' right of cntrln, 56' AGL/83' MSL.
Terrain at DER, 500' left of cntrln, 17' MSL.
Terrain at DER, 434' left of cntrln, 16' MSL.
Terrain 25' from DER, 101' left of cntrln, 13' MSL.
Bushes 305' from DER, 508' left of cntrln, 19' MSL.
Pylon 3426' from DER, 1073' left of cntrln, 56' AGL/66' MSL.
Bushes 573' from DER, 622' right of cntrln, 26' MSL.
Pylon 3627' from DER, 688' left of cntrln, 56' AGL/71' MSL.

CHARLOTTE AMALIE, VI
CYRIL E KING (STT)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 05JUN08 (08157) (FAA)
TAKEOFF MINIMUMS:
Rwy 10, 400-1 with minimum climb of 462' per NM to 1400 or 2100-2 1/2 for climb in visual conditions.
Rwy 28, 800-3 or std. w/ min. climb of 366' per NM to 1000.
DEPARTURE PROCEDURE:
Rwy 10, climbing right turn heading 120° to 2000 before turning north or for climb in visual conditions, cross Cyril E King airport at or above 2000 before proceeding on course.
Rwy 28, climb heading 280° to 2000 before turning north.
TAKEOFF OBSTACLE NOTES:
Rwy 10, antenna on building 258' from DER, 485' left of centerline, 25' AGL/41' MSL.
Multiple trees beginning 729' from DER, 244' right of centerline up to 100' AGL/259' MSL.
Pole 300' from DER, 430' right of centerline, 23' AGL/39' MSL.
Pylon 382, antenna 33' from DER, 412' left of centerline, 16' AGL/29' MSL.
Bush 175' from DER, 178' right of centerline, 2' AGL/29' MSL.
Bush 206' from DER, 121' left of centerline, 2' AGL/29' MSL.
Trees beginning 2.39 NM from DER, 4351' right of centerline, 100' AGL/710' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

CHRISTIANSTED, ST. CROIX, VI
HENRY E. ROHLSN (STX)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 9 29MAY14 (14149) (FAA)
TAKEOFF MINIMUMS:
Rwy 10, 300-1¾ or std. w/min. climb of 300’ per NM to 300.
DEPARTURE PROCEDURE:
Rwy 10, climb heading 108° to 1300 before proceeding on course.
Rwy 28, climb heading 277° to 1200 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 10, bushes beginning 103’ from DER, 283’ right of centerline, up to 10’ AGL/32’ MSL.
Pole 794’ from DER, 572’ right of centerline, up to 29’ AGL/44’ MSL.
Bushes beginning 127’ from DER, 324’ left of centerline, up to 10’ AGL/34’ MSL.
Pole 595’ from DER, 653’ left of centerline, up to 41’ AGL/62’ MSL.
Trees beginning 935’ from DER, 562’ left of centerline, up to 29’ AGL/70’ MSL.
Rwy 28, trees beginning 517’ from DER, 553’ right of centerline, up to 53’ AGL/114’ MSL.
Tower 1499’ from DER, 802’ right of centerline, 50’ AGL/140’ MSL.

CLEYN, FL
AIRGLADES (2IS)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 12MAR09 (09071) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 31, vehicle on road, 362’ from DER, 578’ right of centerline, 15’ AGL/38’ MSL.

CRESTVIEW, FL
BOB SIKES (CEW)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 31JUL08 (08213) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 17, trees beginning 92’ from DER, 248’ right of centerline up to 100’ AGL/203’ MSL.
Trees beginning 171’ from DER, 9’ left of centerline, up to 100’ AGL/205’ MSL.
Rwy 35, trees beginning 329’ from DER, 222’ right of centerline up to 100’ AGL/272’ MSL.
Trees beginning 152’ from DER, 184’ left of centerline, up to 100’ AGL/278’ MSL.

CROSS CITY, FL
CROSS CITY (CTY)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 05JUN08 (08157) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 4, trees beginning 527’ from DER, left and right of centerline, up to 100’ AGL/149’ MSL.
Rwy 13, trees beginning 158’ from DER, left and right of centerline, up to 100’ AGL/149’ MSL.
Tank 3302’ from DER, 927’ right of centerline, 101’ AGL/141’ MSL.
Rwy 22, trees beginning 1510’ from DER, left and right of centerline, up to 100’ AGL/149’ MSL.
Power lines 2807’ from DER, 58’ left of centerline, 73’ AGL/114’ MSL.
Rwy 31, trees beginning 199’ from DER, left and right of centerline, up to 100’ AGL/149’ MSL.

CRYSTAL RIVER, FL
CRYSTAL RIVER-CAPTAIN TOM DAVIS FIELD (CGC)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 11DEC14 (14345) (FAA)
TAKEOFF MINIMUMS:
Rwy 9, std. w/ min. climb of 260’ per NM to 600, or 500-2½ with min. climb of 210’ per NM to 900, or 900-2½ for climb in visual conditions.
Rwys 18, 36, NA-Environmental.
DEPARTURE PROCEDURE:
Rwy 9, climb heading 096º to 700 before turning right, or for climb in visual conditions cross Crystal River-Tom Davis Field at or above 800 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 9, vehicles on road beginning 6’ from DER, from left to right of centerline, up to 15’ AGL/24’ MSL.
Multiple trees beginning 364’ from DER, from 680’ left of centerline to 820’ right of centerline, up to 100’ AGL/129’ MSL.
Rwy 27, trees 17’ from DER, 484’ right of centerline, up to 100’ AGL/109’ MSL.
Vehicles on road beginning 368’ from DER, from left to right of centerline, up to 15’ AGL/24’ MSL.
Power line beginning 474’ from DER, from left to right of centerline, up to 26’ AGL/45’ MSL.
Building 916’ from DER, on centerline, 26’ AGL/35’ MSL.
Multiple trees beginning 762’ from DER, from 915’ left of centerline to 641’ right of centerline, up to 100’ AGL/119’ MSL.

10 SEP 2020 to 08 OCT 2020
DAYTONA BEACH, FL
DAYTONA BEACH INTL (DAB)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 27AUG09 (09239) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 7L, multiple trees beginning 1834’ from DER, 646’ right of centerline, up to 64’ AGL/95’ MSL.
Rwy 7R, tower, trees beginning 1042’ from DER, 413’ right of centerline, up to 102’ AGL/135’ MSL.
Hanger, multiple trees beginning 971’ from DER, 55’ left of centerline, up to 67’ AGL/101’ MSL.
Rwy 16, multiple trees beginning 57’ from DER, 19’ left of centerline, up to 75’ AGL/104’ MSL.
Multiple trees beginning 1108’ from DER, 6’ right of centerline, up to 78’ AGL/107’ MSL.

DEFUNIAK SPRINGS, FL
DEFUNIAK SPRINGS (54J)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 07MAY09 (09127) (FAA)
TAKEOFF MINIMUMS:
Rwy 9, 400-2¼ or std. w/ min. climb of 254’ per NM to 800.
Rwys 18,36, NA - dirt.
TAKEOFF OBSTACLE NOTES:
Rwy 9, multiple roads, railroad, building, fence, light on pole, poles, signs, towers and trees beginning 25’ from DER, 1’ left of centerline, up to 431’ AGL/617’ MSL.
Rwy 27, multiple trees, poles, fences, roads and building beginning 8’ from DER, 39’ left of centerline, up to 64’ AGL/353’ MSL.
Multiple trees, poles, roads, buildings and light on pole beginning 82’ from DER, 15’ right of centerline, up to 53’ AGL/342’ MSL.

DELAND, FL
DELAND MUNI/SIDNEY H. TAYLOR FIELD (DED)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 08JUN06 (06159) (FAA)
DEPARTURE PROCEDURE:
Rwy 5, climb via heading 054° to 1800 before proceeding on course.
Rwy 12, climb via heading 122° to 1800 before proceeding on course.
Rwy 30, climb via heading 302° to 1800 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 5, numerous trees beginning 64’ from DER, 245’ left of centerline, up to 100’ AGL/143’ MSL.
Numerous trees beginning 869’ from DER, 410’ right of centerline, up to 100’ AGL/154’ MSL.
Rwy 12, numerous trees beginning 154’ from DER, 129’ left of centerline, up to 100’ AGL/153’ MSL.
Numerous trees beginning 289’ from DER, 410’ right of centerline, up to 100’ AGL/162’ MSL.
Rwy 30, numerous trees beginning 624’ from DER, 9’ left of centerline, up to 100’ AGL/156’ MSL.
Numerous trees beginning 159’ from DER, 341’ right of centerline, up to 100’ AGL/162’ MSL.
Rwy 23, light pole and numerous trees beginning 381’ from DER, 44’ right of centerline, up to 100’ AGL/132’ MSL.
Pole, building, vent on building, hangar, and trees beginning 164’ from DER, 26’ left of centerline, up to 100’ AGL/129’ MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

DESTIN, FL
DESTIN EXECUTIVE (DTS)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-C 07DEC17 (17341) (FAA)
TAKEOFF MINIMUMS:
Rwy 14, 200-1/2 or std. w/ min. climb of 253' per NM to 300.
DEPARTURE PROCEDURE:
Rwy 14, climb heading 141° to 500 before turning.
TAKEOFF OBSTACLE NOTES:
Rwy 14, tree 173' from DER, 381' left of centerline, 48' MSL.
Pole 214' from DER, 477' right of centerline, 26' AGL/43' MSL.
Trees beginning 290' from DER, 350' left of centerline, up to 57' MSL.
Tree 524' from DER, 602' left of centerline, 69' MSL.
Trees beginning 630' from DER, 362' left of centerline, up to 71' MSL.
Pole 2410' from DER, 522' right of centerline, 59' AGL/82' MSL.
Poles beginning 2832' from DER, 77' right of centerline, up to 70' AGL/94' MSL.
Buildings beginning 3776' from DER, 1146' left of centerline, up to 128' AGL/149' MSL.
Building 4098' from DER, 103' right of centerline, 122' AGL/137' MSL.
Building 4526' from DER, 579' left of centerline, 148' AGL/169' MSL.
Building 4711' from DER, 236' right of centerline, 129' AGL/139' MSL.

DUNNELLON, FL
MARION COUNTY (X35)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 13SEP18 (18256) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 5, trees beginning 308' from DER, 265' right of centerline, up to 100' AGL/179' MSL.
Trees beginning 114' from DER, 170' left of centerline, up to 100' AGL/199' MSL.
Rwy 10, trees beginning 85' from DER, 276' right of centerline, up to 100' AGL/164' MSL.
Trees beginning 82' from DER, 311' left of centerline, up to 100' AGL/154' MSL.
Rwy 23, trees beginning 1100' from DER, 431' right of centerline, up to 100' AGL/179' MSL.
Trees beginning 601' from DER, 610' left of centerline, up to 100' AGL/169' MSL.
Rwy 28, trees beginning 268' from DER, 404' right of centerline, up to 100' AGL/169' MSL.
Trees beginning 363' from DER, 273' left of centerline, up to 100' AGL/179' MSL.

FERNANDINA BEACH, FL
FERNANDINA BEACH MUNI (FHB)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 19SEP13 (13262) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 4, trees beginning 317' from DER, 11' left of centerline, up to 100' AGL/110' MSL.
Wall 77' from DER, 301' left of centerline, 6' AGL/20' MSL.
Vehicle on road 552' from DER, 437' left of centerline, 15' AGL/29' MSL.
Poles beginning 178' from DER, 441' left of centerline, 39' AGL/52' MSL.
Fence 71' from DER, 311' left of centerline, 10' AGL/23' MSL.
Trees beginning 660' from DER, 4' right of centerline, up to 105' AGL/115' MSL.
Signs beginning 112' from DER, 292' right of centerline, up to 78' AGL/92' MSL.
Rwy 9, trees beginning 210' from DER, 15' left of centerline, up to 92' AGL/107' MSL.
Vehicle on road 463' from DER, 252' left of centerline, 15' AGL/30' MSL.
Trees beginning 39' from DER, 17' right of centerline, up to 82' AGL/97' MSL.
Vehicle on road beginning 422' from DER, 129' right of centerline, 15' AGL/30' MSL.
Rwy 13, trees beginning 503' from DER, 7' left of centerline, up to 84' AGL/99' MSL.
Vehicle on road beginning 426' from DER, 309' left of centerline 15' AGL/39' MSL.
Trees beginning 19' from DER, 12' right of centerline, up to 85' AGL/100' MSL.
Vehicle on road beginning 355' from DER, 70' right of centerline, up to 15' AGL/31' MSL.
Multiple buildings beginning 4513' from DER, 286' right of centerline, up to 119' AGL/141' MSL.
Rwy 22, trees beginning 55' from DER, 118' left of centerline, up to 78' AGL/93' MSL.
Fence beginning 64' from DER, 267' left of centerline, 10' AGL/22' MSL.
Trees beginning 42' from DER, 210' right of centerline, up to 95' AGL/100' MSL.
Navaid 10' from DER, 85' right of centerline, 2' AGL/14' MSL.
Boat mast 2903' from DER, 336' right of centerline, up to 86' MSL.

10 SEP 2020 to 08 OCT 2020
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

FERNANDINA BEACH, FL (CON’T)

FERNANDINA BEACH MUNI (FHB) (CON’T)

Rwy 27, trees beginning 195’ from DER, 30’ left of centerline, up to 99’ AGL/104’ MSL.

Trees beginning 836’ from DER, 42’ right of centerline, up to 96’ AGL/101’ MSL.

Bush 138’ from DER, 98’ right of centerline, radial 111.9, up to 53’ AGL/58’ MSL.

Rwy 31, trees beginning 29’ from DER, 216’ left of centerline, up to 96’ AGL/101’ MSL.

Bush 24’ from DER, 379’ left of centerline, 11’ AGL/21’ MSL.

Trees beginning 646’ from DER, 561’ right of centerline, up to 71’ AGL/81’ MSL.

FORT LAUDERDALE, FL

FORT LAUDERDALE EXECUTIVE (FXE)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5 25JUN15 (15176) (FAA)

DEPARTURE PROCEDURE:

Rwy 27, climb heading 271° to 600 before turning left.

TAKEOFF OBSTACLE NOTES:

Rwy 9, building 833’ from DER, 721’ left of centerline, 40’ AGL/51’ MSL.

Tree 1903’ from DER, 484’ right of centerline, 85’ AGL/89’ MSL.

Building 4130’ from DER, 41’ right of centerline, 122’ AGL/129’ MSL.

Tree 465’ from DER, 303 right of centerline, up to 32’ AGL/42’ MSL.

Trees, poles and buildings beginning 452’ from DER, 290’ left and 167’ right of centerline up to 45’ AGL/54’ MSL.

Trees beginning 1976’ from DER, 259’ right of centerline, 11’ AGL/21’ MSL.

Tower 5130’ from DER, 1826’ right of centerline, 139’ AGL/147’ MSL.

Rwy 27, trees beginning 2040’ from DER, 256’ left of centerline up to 105’ AGL/116’ MSL.

Rwy 31, trees and pole beginning 703’ from DER, 338’ right of centerline, up to 66’ AGL/81’ MSL.

Building 1289’ from DER, 290’ left of centerline, 43’ AGL/53’ MSL.

FORT LAUDERDALE/HOLLYWOOD INTL (FLL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 7 30JAN20 (20030) (FAA)

DEPARTURE PROCEDURE:

Rwy 10L, climb on heading 096° to 500 before turning left.

Rwy 28L, climb on heading 276° to 700 before turning left.

Rwy 28R, climb on heading 276° to 500 before turning left.

TAKEOFF OBSTACLE NOTES:

Rwy 10L, sign 54’ from DER, 323’ left of centerline, 4’ AGL/7’ MSL.

NAVAID 295’ from DER, on centerline, 15’ MSL.

NAVAID 495’ from DER, 27’ right of centerline, 19’ MSL.

Lighting 496’ from DER, 28’ left of centerline, 16’ AGL/20’ MSL.

Lighting beginning 496’ from DER, on centerline, up to 16’ AGL/20’ MSL.

Vehicle on traverse way beginning 509’ from DER, 63’ left of centerline, up to 30’ MSL.

Lighting 667’ from DER, on centerline, 19’ AGL/23’ MSL.

Pole, lighting beginning 845’ from DER, on centerline, up to 28’ MSL.

Vehicle on traverse way beginning 948’ from DER, on centerline, up to 30’ MSL.

Pole 1045’ from DER, on centerline, 36’ MSL.

Lighting 1047’ from DER, on centerline, 33’ AGL/37’ MSL.

Pole 1289’ from DER, 548’ left of centerline, 45’ AGL/47’ MSL.

Pole 1332’ from DER, 633’ right of centerline, 44’ AGL/46’ MSL.

Tree 1850’ from DER, 680’ left of centerline, 53’ MSL.

Tree 1980’ from DER, 274’ right of centerline, 65’ MSL.

Trees beginning 2163’ from DER, 780’ right of centerline, up to 81’ MSL.

Bridge 2428’ from DER, 1123’ left of centerline, 65’ AGL/70’ MSL.

Pole 2558’ from DER, 827’ left of centerline, 75’ MSL.

Tree 3027’ from DER, 920’ right of centerline, 83’ MSL.

Tree 3043’ from DER, 1221’ right of centerline, 87’ MSL.

Rwy 10R, lighting 29’ from DER, 23’ left of centerline, 2’ AGL/67’ MSL.

Lighting 30’ from DER, 23’ right of centerline, 1’ AGL/67’ MSL.

Tree 953’ from DER, 613’ right of centerline, 90’ MSL.

Rwy 28L, lighting 29’ from DER, 22’ right of centerline, 2’ AGL/11’ MSL.

Lighting 30’ from DER, 23’ left of centerline, 1’ AGL/11’ MSL.

Trees beginning 202’ from DER, 397’ left of centerline, up to 89’ MSL.

Trees beginning 774’ from DER, 399’ left of centerline, up to 90’ MSL.

Pole, building, tree beginning 866’ from DER, 366’ right of centerline, up to 40’ AGL/45’ MSL.

Building, pole, vehicle on traverse way beginning 1317’ from DER, 455’ left of centerline, up to 109’ MSL.

Tree 1377’ from DER, 753’ right of centerline, 68’ AGL/71’ MSL.

Trees beginning 1409’ from DER, 625’ right of centerline, up to 91’ MSL.

Pole, building beginning 1636’ from DER, 314’ right of centerline, up to 100’ MSL.

Tower, antenna beginning 3191’ from DER, 682’ right of centerline, up to 108’ AGL/111’ MSL.

CON’T
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

FORT LAUDERDALE, FL (CON’T)
FORT LAUDERDALE/HOLLYWOOD INTL (FLL) (CON’T)

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5A 08NOV18 (18312) (FAA)

TAKEOFF OBSTACLE NOTES: Rwy 5, traverse way 253’ from DER, 408’ right of centerline, 40’ MSL.

Building 331’ from DER, 215’ left of centerline, 16’ AGL/32’ MSL.

Trees beginning 371’ from DER, 514’ left of centerline, up to 79’ MSL.

Trees beginning 562’ from DER, 81’ left of centerline, up to 86’ MSL.

Trees beginning 612’ from DER, 52’ right of centerline, up to 76’ MSL.

Trees beginning 1408’ from DER, 374’ right of centerline, up to 80’ MSL.

Trees beginning 1735’ from DER, 148’ right of centerline, up to 90’ MSL.

Rwy 13, vegetation 66’ from DER, 420’ left of centerline, 23’ MSL.

Pole 307’ from DER, 375’ right of centerline, 23’ AGL/37’ MSL.

Trees, traverse way, and buildings beginning 322’ from DER, 233’ left of centerline, up to 57’ MSL.

Tree 599’ from DER, 313’ right of centerline, 55’ MSL.

Trees beginning 644’ from DER, 375’ right of centerline, up to 74’ MSL.

Trees and traverse way beginning 790’ from DER, 38’ right of centerline, up to 87’ MSL.

Tree 1251’ from DER, 467’ left of centerline, 63’ MSL.

Tree 1360’ from DER, 433’ left of centerline, 64’ MSL.

Rwy 23, pole 132’ from DER, 95’ right of centerline, 16’ AGL/27’ MSL.

Traverse way and pole beginning 288’ from DER, 8’ left of centerline, up to 28’ MSL.

Poles beginning 320’ from DER, 427’ right of centerline, up to 24’ AGL/34’ MSL.

Tower and transmission line beginning 376’ from DER, 201’ right of centerline, up to 29’ AGL/40’ MSL.

Transmission line, sign, and pole beginning 484’ from DER, 105’ right of centerline, up to 33’ AGL/43’ MSL.

Transmission line 711’ from DER, 142’ left of centerline, 21’ AGL/31’ MSL.

Transmission line beginning 778’ from DER, 108’ right of centerline, up to 38’ AGL/48’ MSL.

Transmission line beginning 850’ from DER, 659’ left of centerline, up to 39’ AGL/49’ MSL.

Pole and transmission line beginning 1093’ from DER, 560’ left of centerline, up to 46’ AGL/56’ MSL.

Tree 1368’ from DER, 669’ left of centerline, 62’ MSL.

Tree 1438’ from DER, 78’ left of centerline, 69’ MSL.

Trees beginning 1721’ from DER, 272’ left of centerline, up to 70’ MSL.

Tree 1817’ from DER, 766’ left of centerline, 73’ MSL.

Tree 2111’ from DER, 200’ left of centerline, 74’ MSL.

Tree 2178’ from DER, 514’ left of centerline, 75’ MSL.

Rwy 31, poles, traverse way, tree beginning 137’ from DER, 286’ right of centerline, up to 31’ AGL/47’ MSL.

Tree and poles beginning 229’ from DER, 235’ left of centerline, up to 88’ MSL.

Trees, pole, and bridge beginning 795’ from DER, 345’ right of centerline, up to 98’ MSL.

Tower 2518’ from DER, 788’ right of centerline, 113’ AGL/125’ MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

FORT MYERS, FL (CON’T)
SOUTHWEST FLORIDA INTL (RSW)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1  15MAR07  (07074)  (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 6, trees beginning 1398’ from DER, 582’ left of centerline, up to 84’ AGL/104’ MSL.
Trees beginning 1763’ from DER, 860’ right of centerline, up to 95’ AGL/115’ MSL.
Rwy 24, tree 1692’ from DER, 916’ right of centerline, 78’ AGL/98’ MSL.

FORT PIERCE, FL
TREASURE COAST INTL (FPR)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4A  23JUN16  (16175)  (FAA)
TAKEOFF MINIMUMS:
Rwys 10L, 28R, NA-Environmental.
TAKEOFF OBSTACLE NOTES:
Rwy 10R, fence, bush, pole, and trees beginning 24’ from DER, 195’ left of centerline, up to 79’ AGL/133’ MSL.
Tower and trees beginning 287’ from DER, 265’ right of centerline, up to 57’ AGL/81’ MSL.
Rwy 14, trees beginning 1081’ from DER, 528’ left of centerline, up to 39’ AGL/63’ MSL.
Pole and trees beginning 274’ from DER, 488’ right of centerline, up to 62’ AGL/86’ MSL.
Rwy 28L, airport sign and trees beginning 41’ from DER, 25’ 6’ left of centerline, up to 72’ AGL/91’ MSL.
Fence and trees beginning 1344’ from DER, 123’ left of centerline, up to 72’ AGL/96’ MSL.

GAINESVILLE, FL
GAINESVILLE RGNL (GNV)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1  08JUN06  (06159)  (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 7, multiple trees beginning 1397’ from DER, 348’ left of centerline, up to 99’ AGL/229’ MSL.
Multiple trees beginning 1444’ from DER, 144’ right of centerline, up to 72’ AGL/202’ MSL.
Rwy 11, multiple trees beginning 653’ from DER, 438’ right of centerline, up to 30’ AGL/134’ MSL.
Tree 522’ from DER, 402’ left of centerline, 18’ AGL/122’ MSL.
Rwy 25, tower and multiple trees beginning 2415’ from DER, 9’ left of centerline, up to 126’ AGL/291’ MSL.
Obstruction light on localizer and multiple trees beginning 208’ from DER, 463’ right of centerline, up to 82’ AGL/243’ MSL.
Rwy 29, multiple trees beginning 1279’ from DER, 8’ right of centerline, up to 76’ AGL/233’ MSL.
Multiple trees beginning 2679’ from DER, 366’ left of centerline, up to 88’ AGL/240’ MSL.

HOLLYWOOD, FL
NORTH PERRY (HWO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 5A  06DEC18  (18340)  (FAA)
TAKEOFF MINIMUMS:
Rwys 10L/R, std. w/min. climb of 500’ per NM to 1400 or 1400-2½ for climb in visual conditions.
Rwys 19L/R, 400-2¾ or std. w/min. climb of 220’ per NM to 500.
DEPARTURE PROCEDURE:
Rwy 1R, climb heading 006° to 900 before turning right.
Rwy 1L, climb heading 006° to 900 before turning right.
Rwys 10L/R, right turn on departure NA.
Rwys 19L/R, climb heading 186° to 1300 before turning left.
Rwys 28L/R, climb heading 276° to 1000 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 1R, multiple trees beginning 54’ from DER, 215’ right of centerline, up to 60’ AGL/68’ MSL.
Multiple trees beginning 1312’ from DER, 85’ left of centerline, up to 68’ AGL/74’ MSL.
Multiple poles beginning 50’ from DER, 341’ right of centerline up to 62’ AGL/68’ MSL.
Multiple poles beginning 979’ from DER, 646’ left of centerline, up to 49’ AGL/55’ MSL.
Sign 106’ from DER, 342’ right of centerline, 7’ AGL/13’ MSL.
Rwy 1L, vehicles on roadway beginning 45’ from DER, 322’ left of centerline, up to 15’ AGL/22’ MSL.
Multiple trees beginning 169’ from DER, 284’ left of centerline up to 31’ AGL/39’ MSL.
Multiple poles beginning 740’ from DER, 376’ left of centerline, up to 48’ AGL/56’ MSL.
Multiple buildings beginning 163’ from DER, 375’ right of centerline up to 36’ AGL/43’ MSL.
Multiple poles beginning 765’ from DER, 386’ right of centerline, up to 48’ AGL/55’ MSL.
Multiple trees beginning 860’ from DER, 2’ left of centerline, up to 58’ AGL/66’ MSL.
Multiple trees beginning 886’ from DER, 46’ right of centerline, up to 68’ AGL/74’ MSL.
Crane 3214’ from DER, 762’ left of centerline, 111’ AGL/117’ MSL.
Tower 3233’ from DER, 1264’ left of centerline, up to 150’ AGL/158’ MSL.
CON’T
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

HOLLYWOOD, FL (CON’T)
NORTH PERRY (CON’T)

Rwy 10R, pole 168’ from DER, 543’ right of centerline, 31’ AGL/38’ MSL.
Buildings beginning 541’ from DER, 377’ right of centerline, up to 25’ AGL/33’ MSL.
Multiple poles beginning 649’ from DER, 20’ right of centerline, up to 77’ AGL/85’ MSL.
Multiple trees beginning 168’ from DER, 543’ left of centerline, up to 62’ AGL/70’ MSL.
Multiple trees beginning 847’ from DER, 152’ left of centerline, up to 76’ AGL/84’ MSL.

Rwy 10L, fence 113’ from DER, 325’ left of centerline, 8’ AGL/14’ MSL.
Multiple trees beginning 272’ from DER, 359’ left of centerline, up to 39’ AGL/46’ MSL.
Multiple poles beginning 660’ from DER, 515’ right of centerline, up to 61’ AGL/69’ MSL.
Multiple trees beginning 1124’ from DER, 67’ right of centerline, up to 77’ AGL/84’ MSL.

Pole 1085’ from DER, 450’ left of centerline, 40’ AGL/47’ MSL.
Multiple trees beginning 1100’ from DER, 44’ left of centerline, up to 72’ AGL/80’ MSL.
Tower 1.2 NM from DER, 2371’ left of centerline, 194’ AGL/204’ MSL.

Rwy 19L, vehicles on roadway 174’ from DER, 222’ right of centerline, up to 15’ AGL/22’ MSL.
Multiple buildings beginning 217’ from DER, 35’ right of centerline, up to 78’ AGL/85’ MSL.
Multiple trees beginning 363’ from DER, 20’ left of centerline, up to 75’ AGL/82’ MSL.
Building 288’ from DER, 448’ right of centerline, 15’ AGL/23’ MSL.
Multiple buildings beginning 459’ from DER, 478’ left of centerline, up to 25’ AGL/32’ MSL.
Multiple poles beginning 521’ from DER, 29’ left of centerline, up to 39’ AGL/46’ MSL.
Multiple poles beginning 848’ from DER, 39’ right of centerline, up to 35’ AGL/41’ MSL.

Rwy 19R, multiple poles beginning 843’ from DER, 35’ right of centerline, up to 36’ AGL/43’ MSL.
Multiple poles beginning 1070’ from DER, 49’ left of centerline, up to 36’ AGL/43’ MSL.
Multiple trees beginning 962’ from DER, 24’ right of centerline, up to 68’ AGL/76’ MSL.

Multiple trees beginning 1169’ from DER, 165’ left of centerline, up to 78’ AGL/85’ MSL.
Tower 1335’ from DER, 211’ left of centerline, 68’ AGL/74’ MSL.

Rwy 28L, tower 911’ from DER, 605’ right of centerline, 55’ AGL/61’ MSL.
Multiple poles beginning 978’ from DER, 39’ right of centerline, up to 72’ AGL/80’ MSL.
Multiple poles beginning 1115’ from DER, 49’ left of centerline, up to 39’ AGL/48’ MSL.
Multiple trees beginning 1259’ from DER, 309’ left of centerline, up to 82’ AGL/90’ MSL.
Multiple trees beginning 1309’ from DER, 391’ right of centerline, up to 104’ AGL/112’ MSL.
Building 1626’ from DER, 29’ left of centerline, 60’ AGL/69’ MSL.
Multiple buildings beginning 1996’ from DER, 22’ right of centerline, up to 60’ AGL/67’ MSL.

Rwy 28R, multiple trees beginning 15’ from DER, 28’ left of centerline, up to 105’ AGL/112’ MSL.
Multiple trees beginning 17’ from DER, 116’ right of centerline, up to 82’ AGL/90’ MSL.
Multiple poles beginning 687’ from DER, 38’ left of centerline, up to 59’ AGL/65’ MSL.
Multiple poles beginning 965’ from DER, 65’ right of centerline, up to 39’ AGL/47’ MSL.
Building 1804’ from DER, 981’ left of centerline, 50’ AGL/59’ MSL.

HOMESTEAD, FL
MIAMI HOMESTEAD GENERAL AVIATION (X51)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-B 22JUN17 (17173) (FAA)

DEPARTURE PROCEDURE:
Rwy 36, climb on a heading between 186° CW 046° from DER or minimum climb of 461’ per NM to 2500 for headings 047° through 185°.
Rwy 10, climb on a heading between 096° CW 275° from DER or minimum climb of 512’ per NM to 2500 for headings 276° through 095°.

Rwy 18, climb heading 185° to 1100 before proceeding North or Northeast.
Rwy 28, climb heading 276° to 1100 before proceeding East or Northeast.

TAKEOFF OBSTACLE NOTES:
Rwy 36, fence 231’ from DER, 457’ left of centerline, 5’ AGL/14’ MSL.
Rwy 10, building 170’ from DER, 415’ right of centerline, 17’ AGL/26’ MSL.
Rwy 28, light pole 118’ from DER, 371’ left of centerline, 26’ AGL/35’ MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

HOMESTEAD ARB (KHST)
HOMESTEAD, FL
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 08NOV18 (18312)
DEPARTURE PROCEDURE:
Rwy 6, DER climb on a heading of 340° CW 235° with a std. climb gradient of 200 ft/NM.
Rwy 24, DER climb on a heading of 060° CW 280° with a std. climb gradient of 200 ft/NM.
TAKEOFF OBSTACLE NOTES:
Rwy 6, C-5 tail at hold line taxiway e 20' inward of DER, 65' AGL/70' MSL.
C-5 at hold line taxiway e 32' inward of DER, 65' AGL/70' MSL.
Multiple trees 1697' from DER, 211' right of centerline, 89' AGL/94' MSL.
Multiple trees 2005' from DER, 984' right of centerline, 89' AGL/94' MSL.
Multiple trees 2129' from DER, 223' right of centerline, 32' AGL/38' MSL.
Sign 54' from DER, 310' right of centerline, 5' AGL/8' MSL.
Terrain + multiple trees 3468' from DER, 1336' right of centerline, 89' AGL/94' MSL.
Terrain + multiple trees 3558' from DER, 354' left of centerline, 89' AGL/94' MSL.
Terrain + multiple trees 3562' from DER, 354' right of centerline, 89' AGL/94' MSL.
Rwy 24, terrain 0' from DER, 500' left of centerline, 7' MSL.
Multiple trees 2401' from DER, 1143' right of centerline, 52' AGL/62' MSL.
Multiple trees 2481' from DER, 790' right of centerline, 62' AGL/67' MSL.

HURLBURT FLD (KHRT)
MARY ESTHER, FL
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 18AUG16 (16231)
TAKEOFF OBSTACLE NOTES:
Rwy 36, tree 85' AGL, 3141' from DER, 708' right of centerline.
Tree 70' AGL, 3104' from DER, 1231' right of centerline.
Tree 70' AGL, 3196' from DER, 78' right of centerline.
Tree 70' AGL, 3251' from DER, 864' left of centerline.

IMMOKALEE, FL
IMMOKALEE RGNL (IMM)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2A 13SEP18 (18256) (FAA)
TAKEOFF MINIMUMS:
Rwy 18, 300-2/4 or std. w/min. climb of 230' per NM to 420, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 2200' prior to DER.
TAKEOFF OBSTACLE NOTES:
Rwy 9, tree 58' from DER, 445' left of centerline, 46' MSL.
Tress beginning 166' from DER, 408' left of centerline, up to 47' MSL.
Tree 1129' from DER, 298' left of centerline, 37' AGL/67' MSL.
Rwy 18, aprt sign, REIL beginning 27' from DER, 116' left of centerline, up to 2' AGL/34' MSL.
REIL 38' from DER, 115' right of centerline, 1' AGL/34' MSL.
Buildings beginning 253' from DER, 475' left of centerline, up to 51' MSL.
Tree 1180' from DER, 787' left of centerline, 63' MSL.
Tree 1222' from DER, 620' left of centerline, 66' MSL.
Tree 1309' from DER, 814' left of centerline, 69' MSL.
Tower 1.7 NM from DER, 2983' right of centerline, 297' AGL/322' MSL.
Communication twr 1.7 NM from DER, 2996' right of centerline, 285' AGL/311' MSL.
Rwy 27, fence 4' from DER, 472' right of centerline, 7' AGL/41' MSL.
Aprt sign 33' from DER, 467' left of centerline, 3' AGL/38' MSL.
Tree 231' from DER, 486' right of centerline, 60' MSL.
Tree 308' from DER, 425' right of centerline, 61' MSL.
Trees beginning 393' from DER, 340' right of centerline, up to 63' MSL.
Trees beginning 505' from DER, 286' right of centerline, up to 30' AGL/68' MSL.
Tree 719' from DER, 624' left of centerline, 45' AGL/80' MSL.
Tree 769' from DER, 527' left of centerline, 81' MSL.
Tree, pole beginning 870' from DER, 258' left of centerline, up to 54' AGL/89' MSL.
Tree 967' from DER, 363' right of centerline, 33' AGL/70' MSL.
Pole 1029' from DER, 670' right of centerline, 71' MSL.
Tree, pole beginning 1053' from DER, 49' right of centerline, up to 45' AGL/76' MSL.
Rwy 36, trees beginning 265' from DER, 383' left of centerline, up to 63' MSL.
Trees beginning 355' from DER, 306' left of centerline, up to 30' AGL/68' MSL.
Tree 400' from DER, 232' right of centerline, 16' AGL/51' MSL.
Trees beginning 446' from DER, 209' right of centerline, up to 18' AGL/53' MSL.
INVERNESS, FL
INVERNESS (INF)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 05APR12 (12096) (FAA)
TAKEOFF MINIMUMS:
Rwy 1, 300-1½ or std. w/min. climb of 420' per NM to 500.
TAKEOFF OBSTACLE NOTES:
Rwy 1, terrain beginning 110' from DER, 27' left of centerline, up to 49' MSL.
Terrain beginning 137' from DER, on centerline, up to 49' MSL.
Trees beginning 110' from DER, terrain beginning 27' left of centerline, up to 49' MSL.
Vehicles on roadway 598' from DER, across centerline, up to 15' AGL/65' MSL.
Tower 5479' from DER, 1312' left of centerline, up to 220' AGL/279' MSL.
Tower 5764' from DER, 1596' left of centerline, up to 164' AGL/250' MSL.
Trees beginning 164' from DER, 238' right of centerline, up to 100' AGL/149' MSL.
Rwy 19, trees beginning 340' from DER, 239' left of centerline, up to 100' AGL/169' MSL.
Trees beginning 793' from DER, 596' right of centerline, up to 100' AGL/189' MSL.
Trees beginning 2066' from DER, on centerline, up to 100' AGL/209' MSL.
Trees beginning 2523' from DER, 274' right of centerline, up to 100' AGL/209' MSL.

ISLA DE VIEQUES, PR
ANTONIO RIVERA RODRIGUEZ (VQS)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2A 10SEP20 (20254) (FAA)
TAKEOFF MINIMUMS:
Rwy 9, 500-2½ w/min. climb of 260' per NM to 900 or 1600-2½ for climb in visual conditions.
Rwy 27, 500-2½ w/min. climb of 280' per NM to 2700 or 1600-2½ for climb in visual conditions.
DEPARTURE PROCEDURE:
Rwy 9, climb on heading 00° to 900 before proceeding on course.
Rwy 27, climb on heading 270° to 2900 before proceeding on course.
VCOA:
Rwys 9, 27, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross
Antonio Rivera Rodriguez airport at or above 1500 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 9, vehicles on roadway beginning 26' from DER, left and right of centerline, up to 15' AGL/80' MSL.
Trees beginning 70' from DER, 504' right of centerline, up to 100' AGL/165' MSL.
Trees beginning 579' from DER, on centerline, up to 100' AGL/165' MSL.
Trees beginning 1750' from DER, 956' right of centerline up to 100' AGL/493' MSL.
Rwy 27, trees beginning 15' from DER, 225' left of centerline, up to 100' AGL/165' MSL.
Trees beginning 16' from DER, 274' right of centerline up to 100' AGL/165' MSL.
Trees beginning 186' from DER, left and right of centerline, up to 100' AGL/165' MSL.
Trees beginning 1206' from DER, 794' left of centerline, up to 100' AGL/493' MSL.

JACKSONVILLE, FL
CECIL (VQQ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 05JUL07 (07186) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 18L, tree 1499' from DER, 699' right of centerline, 34' AGL/113' MSL.

HERLONG RECREATIONAL (HEG)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 05APR12 (12096) (FAA)
DEPARTURE PROCEDURE:
Rwy 7, climb heading 071° to 800 before turning right.
Rwy 11, climb heading 116° to 700 before turning left.
TAKEOFF OBSTACLE NOTES:
Rwy 7, trees beginning 236 ' from DER, 53' right of centerline, up to 100' AGL/184' MSL.
Trees beginning 376' from DER, 237' left of centerline, up to 100' AGL/179' MSL.
Rwy 11, trees beginning 18' from DER, 70' left of centerline, up to 100' AGL/184' MSL.
Trees beginning 163' from DER, 77' right of centerline, up to 100' AGL/184' MSL.
Rwy 25, trees beginning 436' from DER, 433' right of centerline, up to 100' AGL/174' MSL.
Trees beginning 1363' from DER, 355' left of centerline, up 100' AGL/174' MSL.
Rwy 29, trees beginning 1491' from DER, 178' right of centerline, up to 100' AGL/184' MSL.
Trees beginning 1872' from DER, 64' left of centerline, up to 100' AGL/179' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

JACKSONVILLE, FL (CON’T)

JACKSONVILLE EXECUTIVE AT CRAIG (CRG)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 07MAR13 (13066) (FAA)

TAKEOFF MINIMUMS:

Rwy 23, std. w/min. climb of 360’ per NM to 1500 or 1300-2½ for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 23, for climb in visual conditions: cross Jacksonville Executive at Craig airport at or above 1200 before proceeding on course. When executing VCOA, notify ATC prior to departure.

Rwy 5, climb heading 051° to 500 before proceeding on course.

Rwy 14, climb heading 141° to 700 before turning right.

TAKEOFF OBSTACLE NOTES:

Rwy 5, trees beginning 1617’ from DER, 182’ right of centerline, up to 100’ AGL/143’ MSL.
Terrain beginning 17’ from DER, beginning 179’ left and right of centerline, 9’ MSL.
Trees beginning 1911’ from DER, 113’ left of centerline, up to 100’ AGL/143’ MSL.
Pole and navaid beginning 571’ from DER, 560’ left of centerline, up to 41’ AGL/82’ MSL.
Terrain beginning 5’ from DER, beginning 44’ right and left of centerline, 56’ MSL.
Trees beginning 1848’ from DER, 610’ left of centerline, up to 100’ AGL/128’ MSL.

Rwy 23, trees beginning 1601’ from DER, 15’ right of centerline, up to 100’ AGL/119’ MSL.
Terrain beginning 9’ from DER, beginning 278’ left and right of centerline, 53’ MSL.
Trees beginning 519’ from DER, 510’ left of centerline, up to 100’ AGL/133’ MSL.
Pole 1994’ from DER, 580’ left of centerline, 47’ AGL/85’ MSL.

Rwy 14, tree 2375’ from DER, 905’ right of centerline, 100’ AGL/119’ MSL.

Rwy 5, trees beginning 1911’ from DER, 113’ left of centerline, up to 100’ AGL/143’ MSL.
Pole and navaid beginning 571’ from DER, 560’ left of centerline, up to 41’ AGL/82’ MSL.
Terrain beginning 5’ from DER, beginning 44’ right and left of centerline, 56’ MSL.
Trees beginning 1848’ from DER, 610’ left of centerline, up to 100’ AGL/128’ MSL.

Rwy 23, trees beginning 1601’ from DER, 15’ right of centerline, up to 100’ AGL/119’ MSL.
Terrain beginning 9’ from DER, beginning 278’ left and right of centerline, 53’ MSL.
Trees beginning 519’ from DER, 510’ left of centerline, up to 100’ AGL/133’ MSL.
Pole 1994’ from DER, 580’ left of centerline, 47’ AGL/85’ MSL.

Rwy 32, trees beginning 494’ from DER, 104’ right of centerline, up to 67’ AGL/99’ MSL.
Building 501’ from DER, 251’ right of centerline, 16’ AGL/52’ MSL.
Terrain beginning 117’ from DER, beginning 51’ left and right of centerline, 50’ MSL.
Trees and bushes beginning 218’ from DER, 222’ left of centerline, up to 100’ AGL/101’ MSL.

JACKSONVILLE INTL (JAX)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 30JAN20 (20030) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 8, poles beginning 10’ from DER, right and left of centerline, 1’ AGL/28’ MSL.
Bushes beginning 82’ from DER, 261’ right of centerline, 30’ MSL.
Trees beginning 768’ from DER, 504’ right of centerline, 65’ MSL.
Trees beginning 2210’ from DER, 680’ right of centerline, up to 85’ AGL/127’ MSL.

Rwy 23, std. w/min. climb of 360’ per NM to 1500 or 1300-2½ for climb in visual conditions.

Rwy 14, tree 2375’ from DER, 905’ right of centerline, 100’ AGL/119’ MSL.

Rwy 5, trees beginning 1911’ from DER, 113’ left of centerline, up to 100’ AGL/143’ MSL.
Pole and navaid beginning 571’ from DER, 560’ left of centerline, up to 41’ AGL/82’ MSL.
Terrain beginning 5’ from DER, beginning 44’ right and left of centerline, 56’ MSL.
Trees beginning 1848’ from DER, 610’ left of centerline, up to 100’ AGL/128’ MSL.

Rwy 14, tree 2375’ from DER, 905’ right of centerline, 100’ AGL/119’ MSL.

Rwy 23, trees beginning 1601’ from DER, 15’ right of centerline, up to 100’ AGL/119’ MSL.
Terrain beginning 9’ from DER, beginning 278’ left and right of centerline, 53’ MSL.
Trees beginning 519’ from DER, 510’ left of centerline, up to 100’ AGL/133’ MSL.
Pole 1994’ from DER, 580’ left of centerline, 47’ AGL/85’ MSL.

Rwy 32, trees beginning 494’ from DER, 104’ right of centerline, up to 67’ AGL/99’ MSL.
Building 501’ from DER, 251’ right of centerline, 16’ AGL/52’ MSL.
Terrain beginning 117’ from DER, beginning 51’ left and right of centerline, 50’ MSL.
Trees and bushes beginning 218’ from DER, 222’ left of centerline, up to 100’ AGL/101’ MSL.

Rwy 32, sign 39’ from DER, 442’ right of centerline, 5’ AGL/30’ MSL.

Rwy 26, trees beginning 2195’ from DER, 722’ right of centerline, up to 81’ AGL/104’ MSL.
Tree 3533’ from DER, 794’ left of centerline, 120’ MSL.

Rwy 28, trees beginning 2195’ from DER, 722’ right of centerline, up to 81’ AGL/104’ MSL.
Trees beginning 2773’ from DER, left and right of centerline, up to 100’ AGL/115’ MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

JACKSONVILLE NAS (TOWERS FIELD) (KNIP)
JACKSONVILLE, FL
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 10OCT19 (19283)
DEPARTURE PROCEDURE:
Rwy 10, diverse departures only between 116° through 275° CW.
Rwy 14, diverse departures only between 095° through 320° CW.
Rwy 28, diverse departures auth.
Rwy 32, diverse departures only between 351° through 141° CCW.
TAKEOFF OBSTACLE NOTES:
Rwy 10, terrain 0' from DER, 500' left of cntrln, 30' MSL.
Terrain 300' from DER, 500' left of cntrln, 30' MSL.
Terrain 350' from DER, 500' left of cntrln, 30' MSL.
Twr 383' from DER, 501' right of cntrln, 25' AGL/33' MSL.
Rwy 14, terrain 0' from DER, 500' right of cntrln, 37' MSL.
Terrain 367' from DER, 579' right of cntrln, 33' MSL.
Twr 652' from DER, 313' left of cntrln, 25' AGL/33' MSL.
Rwy 28, terrain 0' from DER, 500' left of cntrln, 32' MSL.
Terrain 125' from DER, 29' right of cntrln, 36' MSL.
Twr 1924' from DER, 514' left of cntrln, 30' AGL/63' MSL.
Twr 1972' from DER, 694' left of cntrln, 30' AGL/63' MSL.
Twr 2014' from DER, 1050' left of cntrln, 30' AGL/66' MSL.
Rwy 32, terrain 0' from DER, 500' right of cntrln, 30' MSL.
Terrain 427' from DER, 614' left of cntrln, 30' MSL.
Terrain 442' from DER, 527' right of cntrln, 26' MSL.
Twr 2980' from DER, 1272' left of cntrln, 58' AGL/78' MSL.
Twr 3343' from DER, 78' left of cntrln, 60' AGL/73' MSL.
Twr 4680' from DER, 1674' left of cntrln, 93' AGL/110' MSL.
Twr 4732' from DER, 874' left of cntrln, 70' AGL/86' MSL.
Trees 4772' from DER, 322' left of cntrln, 0' AGL/130' MSL.

KEY WEST, FL
KEY WEST INTL (EYW)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 08JUN06 (06159) (FAA)
DEPARTURE PROCEDURE:
Rwys 9, 27, climb on a heading between 087° clockwise to 033° from DER to avoid R-2916 and unmarked tethered balloon up to 14000 MSL.
TAKEOFF OBSTACLE NOTES:
Rwy 9, rod on antenna, dome on building, poles, and numerous trees beginning 38' from DER, 199' right of centerline, up to 75' AGL/82' MSL.
Obstruction light on building, pole, and numerous trees beginning 4' from DER, 220' left of centerline, up to 83' AGL/45' MSL.
Rwy 27, pole and numerous trees beginning 27' from DER, 116' right of centerline, up to 83' AGL/90' MSL.
Numerous bushes and trees beginning 202' from DER, 78' left of centerline, up to 37' AGL/44' MSL.

KEY WEST NAS (BOCA CHICA FLD) (KNQX)
KEY WEST, FL
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 21MAY20 (20142)
DEPARTURE PROCEDURE:
Rwy 4, diverse departures authorized between 017° CCW 218°. Left turn to departure heading only.
Rwy 6, diverse departures authorized 100° CW 259°.
Rwy 14, diverse departures authorized 084° CW 315°.
Rwy 22, diverse departures authorized 084° CW 035°.
Rwy 26, diverse departures authorized 084° CW 315°.
Rwy 32, diverse departures authorized 035° CCW 137°.
TAKEOFF OBSTACLE NOTES:
Rwy 4, numerous power poles along US HWY 1 reported as high as 121' MSL from 2470' to 4258' of DER.
Rwy 14, road and vehicle 753' from DER, 14' left of cntrln, 21' MSL.
Rwy 32, numerous power poles along US HWY 1 reported as high as 120' MSL from 2942' to 3604' of DER.
Stadium lights 1485' from DER, 528' to 717' right of cntrln, 39' to 56' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

KEYSTONE HEIGHTS, FL
KEYSTONE HEIGHTS (42J)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 16JUL20 (20198) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 5, trees beginning 363' from DER, 503' left of centerline, up to 100' AGL/309' MSL.
Trees beginning 1165' from DER, 331' right of centerline, up to 100' AGL/309' MSL.
Rwy 11, trees beginning 995' from DER, on centerline, up to 100' AGL/309' MSL.
Rwy 23, trees beginning 375' from DER, on centerline, up to 100' AGL/270' MSL.
Powerlines beginning 2436' from DER, 24' right of centerline, up to 100' AGL/279' MSL.
Rwy 29, trees beginning 0' from DER, 263' right of centerline, up to 100' AGL/289' MSL.
Trees beginning 563' from DER, on centerline, up to 100' AGL/290' MSL.
Powerlines beginning 3048' from DER, 122' left of centerline, up to 100' AGL/280' MSL.

LA BELLE, FL
LA BELLE MUNI (X14)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 14FEB08 (08045) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 14, vehicles on roadway, beginning 98' from DER, 483' left of centerline, up to 15' AGL/39' MSL.
Trees beginning 70' from DER, 357' right of centerline, up to 100' AGL/124' MSL.
Poles and trees beginning 305' from DER, 157' left of centerline, up to 40' AGL/94' MSL.
Building 562' from DER, 238' left of centerline, up to 93' AGL/60' MSL.
Poles and trees beginning 745' from DER, 93' right of centerline, up to 40' AGL/60' MSL.
Rwy 32, airplanes on taxiway beginning 18' from DER, 130' left of centerline, up to 12' AGL/31' MSL.
Trees beginning 35' from DER, 135' right of centerline, up to 100' AGL/119' MSL.
Trees beginning 61' from DER, 6' left of centerline, up to 100' AGL/119' MSL.
Vehicle on roadway beginning 136' from DER, 450' right of centerline, up to 15' AGL/34' MSL.
Building 446' from DER, 214' right of centerline, up to 18' AGL/37' MSL.
Pole 1578' from DER, 789' left of centerline, up to 43' AGL/62' MSL.

LAKE CITY, FL
LAKE CITY GATEWAY (LCQ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 29MAY14 (14149) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 5, trees beginning 1358' from DER, 522' right of centerline, up to 100' AGL/294' MSL.
Rwy 10, trees beginning 2490' from DER, 32' right of centerline, up to 94' AGL/284' MSL.
Trees beginning 84' from DER, 58' left of centerline, up to 83' AGL/273' MSL.
Rwy 23, trees beginning 575' from DER, 363' right of centerline, up to 100' AGL/285' MSL.
Trees beginning 1139' from DER, 88' left of centerline, up to 100' AGL/285' MSL.
Trees beginning 981' from DER, 4' left of centerline, up to 94' AGL/282' MSL.
Buildings beginning 691' from DER, 1' right of centerline, up to 74' AGL/292' MSL.

LAKE WALES, FL
LAKE WALES MUNI (X07)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 20NOV08 (08325) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 6, trees beginning 1403' from DER, 165' left of centerline, up to 100' AGL/229' MSL.
Trees beginning 2739' from DER, 899' right of centerline, up to 100' AGL/234' MSL.
Rwy 17, trees beginning 534' from DER, 642' right of centerline, up to 100' AGL/224' MSL.
Rwy 24, trees beginning 2462' from DER, 836' left of centerline, up to 100' AGL/224' MSL.
Rwy 35, trees beginning 2567' from DER, 468' left of centerline, up to 100' AGL/234' MSL.
Buildings beginning 691' from DER, 1' right of centerline up to 74' AGL/205' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

LAKELAND, FL
LAKELAND LINDER INTL (LAL)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1B 28FEB19 (19059)
TAKEOFF MINIMUMS:
Rwys 8, 26, NA - Environmental.
TAKEOFF OBSTACLE NOTES:
Rwy 5, trees beginning 719’ from DER, 343’ right of centerline, up to 182’ MSL.
Poles beginning 1099’ from DER, 580’ left of centerline, up to 33’ AGL/174’ MSL.
Pole, tree beginning 1143’ from DER, 48’ right of centerline, up to 42’ AGL/185’ MSL.
Tree, pole beginning 1260’ from DER, 475’ left of centerline, up to 175’ MSL.
Tree 1444’ from DER, 437’ right of centerline, 191’ MSL.
Tree 1546’ from DER, 427’ left of centerline, 180’ MSL.
Building 1850’ from DER, 69’ left of centerline, 45’ AGL/196’ MSL.
Crane 2166’ from DER, 751’ left of centerline, 100’ AGL/244’ MSL.
Rwy 9, tree 2520’ from DER, 258’ right of centerline, 206’ MSL.
Tree 2550’ from DER, 583’ left of centerline, 210’ MSL.
Tree 2673’ from DER, 526’ right of centerline, 212’ MSL.

LEESBURG, FL
LEESBURG INTL (LEE)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 15DEC11 (11349) (FAA)
TAKEOFF MINIMUMS:
Rwy 3, 400-2 ¼ or std. w/ min. climb of 223’ per NM to 500, or alternatively, with standard takeoff minimums and a normal 200’ per NM climb gradient, takeoff must occur no later than 2100’ prior to DER.
TAKEOFF OBSTACLE NOTES:
Rwy 3, vehicles on roadway, 176’ from DER, left and right of centerline, up to 15’ AGL/90’ MSL.
Blast wall 78’ from DER, on centerline, up to 10’ AGL/85’ MSL.
Poles beginning 248’ from DER, 372’ right of centerline, up to 44’ AGL/119’ MSL.
Trees beginning 61’ from DER, 495’ right of centerline, up to 67’ AGL/137’ MSL.
Trees beginning 272’ from DER, 386’ left of centerline, up to 56’ AGL/131’ MSL.
Rwy 13, trees beginning 493’ from DER, 444’ left of centerline, up to 43’ AGL/106’ MSL.
Rwy 21, vehicles on roadway, 74’ from DER, 389’ left of centerline, up to 15’ AGL/82’ MSL.
Trees beginning 775’ from DER, 473’ left of centerline, up to 100’ AGL/179’ MSL.
Trees beginning 3614’ from DER, 126’ right of centerline, up to 113’ AGL/173’ MSL.
Rwy 31, trees beginning 61’ from DER, 401’ left of centerline, up to 74’ AGL/159’ MSL.
Trees beginning 531’ from DER, 564’ right of centerline, up to 100’ AGL/173’ MSL.
Poles beginning 1273’ from DER, 469’ right of centerline, up to 60’ AGL/131’ MSL.
Poles beginning 2893’ from DER, 265’ left of centerline, up to 74’ AGL/159’ MSL.

LIVE OAK, FL
SUWANNEE COUNTY (24J)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 12DEC13 (13346) (FAA)
DEPARTURE PROCEDURE:
Rwy 7, Climb heading 074° to 600 before turning right.
TAKEOFF OBSTACLE NOTES:
Rwy 7, REILs, fence and taxiway sign beginning 21’ from DER, left and right of centerline, up to 5’ AGL/106’ MSL.
Tree 53’ from DER, 438’ left of centerline, 50’ AGL/152’ MSL.
Building and pole beginning 123’ from DER, 448’ left of centerline, up to 21’ AGL/126’ MSL.
Trees beginning 189’ from DER, 237’ right of centerline, up to 18’ AGL/106’ MSL.
Poles beginning 334’ from DER, 484’ left of centerline, up to 13’ AGL/118’ MSL.
Trees beginning 420’ from DER, 398’ left of centerline, up to 71’ AGL/173’ MSL.
Trees beginning 1041’ from DER, 25’ left of centerline, up to 66’ AGL/179’ MSL.
Trees beginning 1340’ from DER, 4’ right of centerline, up to 61’ AGL/170’ MSL.
Trees beginning 2643’ from DER, 820’ right of centerline, up to 70’ AGL/179’ MSL.
Rwy 25, REILs beginning 20’ from DER, left and right of centerline, 103’ MSL.
Trees and pole beginning 104’ from DER, 230’ left of centerline, up to 84’ AGL/193’ MSL.
Tree 452’ from DER, 489’ right of centerline, 39’ AGL/141’ MSL.
Trees beginning 1070’ from DER, 445’ right of centerline, up to 60’ AGL/165’ MSL.
Trees beginning 1079’ from DER, 416’ left of centerline, up to 74’ AGL/187’ MSL.
Trees beginning 1507’ from DER, left and right of centerline, up to 83’ AGL/195’ MSL.
**MARATHON, FL**

THE FLORIDA KEYS MARATHON INTL AIRPORT (MTH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1C 31MAR16 (16091) (FAA)

DEPARTURE PROCEDURE:

Rwy 7, climbing right turn direct MTH NDB then via 307° bearing from MTH NDB to TIGAR INT before proceeding on course.

Rwy 25, climb direct MTH NDB then via 307° bearing from MTH NDB to TIGAR INT before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 7, trees beginning 337' from DER, 324' right of centerline, up to 74' AGL/81' MSL.

Bush 166' from DER, 323' right of centerline, 9' AGL/16' MSL.

Pole 726' from DER, 59' right of centerline, 39' AGL/46' MSL.

Rod on obstruction light 1404' from DER, 655' right of centerline, 55' AGL/62' MSL.

Transmission pole 2360' from DER, 1029' right of centerline, 89' AGL/96' MSL.

Rod on obstruction light antenna 3366' from DER, 1010' right of centerline, 136' AGL/143' MSL.

Antenna 3270' from DER, 1253' right of centerline, 121' AGL/128' MSL.

Tower 3427' from DER, 1033' right of centerline, 115' AGL/121' MSL.

Trees beginning 242' from DER, 99' left of centerline, up to 75' AGL/82' MSL.

Antennas 1660' from DER, 371' left of centerline, up to 86' AGL/93' MSL.

Pole 876' from DER, 468' left of centerline, 39' AGL/46' MSL.

Concrete pole 1391' from DER, 534' left of centerline, 51' AGL/58' MSL.

Pole 1441' from DER, 586' right of centerline, 55' AGL/62' MSL.

Rwy 25, trees beginning 122' from DER, 224' right of centerline, up to 65' AGL/72' MSL.

Poles beginning 702' from DER, 470' right of centerline, up to 37' AGL/44' MSL.

Antenna 1752' from DER, 135' right of centerline, 49' AGL/56' MSL.

Trees beginning 223' from DER, 324' left of centerline, up to 66' AGL/73' MSL.

Rod on obstruction light antenna beginning 2353' from DER, 22' right of centerline, up to 138' AGL/145' MSL.

Antenna 2953' from DER, 745' left of centerline, 75' AGL/67' MSL.

Transmission pole 1545' from DER, 693' left of centerline, 60' AGL/67' MSL.

Monopole 3997' from DER, 660' left of centerline, 136' AGL/140 MSL.

**MARCO ISLAND, FL**

MARCO ISLAND EXECUTIVE (MKY)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 03JAN19 (19003) (FAA)

DEPARTURE PROCEDURE:

Rwy 35, climb heading 005° to 700 before turning west.

TAKEOFF OBSTACLE NOTES:

Rwy 17, tree 16' from DER, 478' right of centerline, 12' MSL.

Trees beginning 20' from DER, 265' left of centerline, up to 13' MSL.

Pole and tree beginning 77' from DER, 309' right of centerline, up to 25' AGL/25' MSL.

Trees beginning 186' from DER, 431' left of centerline, up to 28' MSL.

Trees beginning 473' from DER, 5' left of centerline, up to 32' MSL.

Tree 689' from DER, 582' right of centerline, 26' MSL.

Trees beginning 826' from DER, on centerline, up to 30' MSL.

Trees beginning 951' from DER, 265' left of centerline, up to 35' MSL.

Trees beginning 972' from DER, 270' right of centerline, up to 36' MSL.

Tree 1106' from DER, 702' right of centerline, 38' MSL.

Tree 1113' from DER, 321' left of centerline, 36' MSL.

Trees beginning 1154' from DER, 249' left of centerline, up to 39' MSL.

Trees beginning 1246' from DER, 499' left of centerline, up to 47' MSL.

Tree 1303' from DER, 394' right of centerline, 39' MSL.

Tree 1354' from DER, 658' right of centerline, 43' MSL.

Trees beginning 1396' from DER, 98' right of centerline, up to 48' MSL.

Trees beginning 1476' from DER, 239' right of centerline, up to 50' MSL.

Rwy 35, tower, sign and tree beginning 10' from DER, 31' left of centerline, up to 56' AGL/57' MSL.

Trees beginning 178' from DER, 51' right of centerline, up to 43' MSL.

Tree 1568' from DER, 795' right of centerline, 45' MSL.

Tree 1895' from DER, 337' right of centerline, 58' MSL.
MARIANNA, FL
MARIANNA MUNI (MAI)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 12MAR09 (09071) (FAA)
TAKEOFF MINIMUMS:
Rwy 18, 300-1½ or std. w/ min. climb of 222' per NM to 400.

TAKEOFF OBSTACLE NOTES:
Rwy 8, trees beginning 2518' from DER, 1016' right of centerline, up to 100' AGL/219' MSL.
Rwy 18, trees beginning 57' from DER, 275' right of centerline, up to 100' AGL/275' MSL.
Trees beginning 1241' from DER, 366' left of centerline, up to 100' AGL/209' MSL.
Rwy 26, trees beginning 3180' from DER, 1278' right of centerline, up to 100' AGL/209' MSL.
Rwy 36, trees beginning 2330' from DER, 1003' left of centerline, up to 100' AGL/209' MSL.
Trees beginning 2352' from DER, 1007' right of centerline, up to 100' AGL/209' MSL.

MAYAGUEZ, PR
EUGENIO MARIA DE HOSTOS (MAZ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 15OCT92 (92289) (FAA)
TAKEOFF MINIMUMS:
Rwy 9, 1400-3 or std. with a min. climb of 500' per NM to 1400.

DEPARTURE PROCEDURE:
Rwy 9, climb via MAZ R-083 to 2500, aircraft northeast bound on G633 continue climb on course. All others turn left direct MAZ VOR/DME before proceeding on course.
Rwy 27, climb via MAZ R-277 to 1500. Aircraft westbound on G633 continue climb on course. All others climbing right turn direct MAZ VOR/DME so as to cross at or above MEA for direction of flight.

MAYPORT NS (ADM DAVID L. MC DONALD FLD) (KNRB)
MAYPORT, FL
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 19JUL18 (18200)
TAKEOFF OBSTACLE NOTES:
Rwy 5, vessels with masts 500' to 2900' from DER, up to 150' MSL.
Rwy 23, vessels with masts 4000' from DER, 1600' right of centerline, up to 150' MSL.

MELBOURNE, FL
MELBOURNE INTL (MLB)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 05JUL07 (07186) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 5, multiple trees 1584' from DER, 222' left of centerline, up to 43' AGL/64' MSL.
Rwy 9L, tree 108' from DER, 479' left of centerline, 25' AGL/62' MSL.
Rwy 9R, multiple trees 1855' from DER, 346' left of centerline, up to 43' AGL/73' MSL.
Tree 1332' from DER, 434' right of centerline, 36' AGL/56' MSL.
Rwy 23, bush 20' from DER, 217' right of centerline, 8' AGL/33' MSL.
Tower 6034' from DER, 750' right of centerline, 152' AGL/177' MSL.
Multiple trees beginning 284' from DER, 121' left of centerline, up to 47' AGL/72' MSL.
Rwy 27R, multiple trees beginning 543' from DER, 169' left of centerline, up to 51' AGL/81' MSL.
Multiple trees beginning 1202' from DER, 114' right of centerline, up to 58' AGL/88' MSL.

MERRITT ISLAND, FL
MERRITT ISLAND (COI)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 13APR06 (06103) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 29, rod on airport beacon obstruction light, 138' from DER, 514' right of centerline, 61' AGL/67' MSL.
Pole, 82' from DER, 403' left of centerline, 34' AGL/40' MSL.
Pole, 468' from DER, 508' right of centerline, 37' AGL/43' MSL.
Hangar, 221' from DER, 278' right of centerline, 22' AGL/28' MSL.
Pole 490' from DER, 306' left of centerline, 28' AGL/34' MSL.
Tree, 987' from DER, 476' left of centerline, 40' AGL/46' MSL.
Tree 1287' from DER, 432' left of centerline, 47' AGL/53' MSL.
Tree 1415' from DER, 560' left of centerline, 48' AGL/54' MSL.
Building, 556' from DER, 530' right of centerline, 25' AGL/31' MSL.
Tree, 1654' from DER, 464' right of centerline, 48' AGL/54' MSL.
Obstruction light on windsock, 551' from DER, 234' right of centerline, 19' AGL/25' MSL.
Pole, 1306' from DER, 259' right of centerline, 37' AGL/43' MSL.
Building, 429' from DER, 436' right of centerline, 15' AGL/21' MSL.
Tree, 1953' from DER, 524' left of centerline, 49' AGL/55' MSL.
MIAMI, FL

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES AND DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 8A  20AUG15  (15232)  (FAA)

TAKEOFF MINIMUMS:

Rwy 8L, heading 093° to 800 before turning right.
Rwy 9L, heading 133° to 1400 before turning right.
Rwy 27L, heading 273° to 1400 before turning left.
Rwy 27R, heading 273° to 1300 before turning left.
Rwy 31, heading 313° to 900 before turning left.

TAKEOFF OBSTACLE NOTES:

Rwy 9L, trees beginning 1731' from DER, 717' left of centerline, up to 100' AGL/119' MSL.
Rwy 9L, signs beginning 35' from DER, 182' left of centerline, up to 3' AGL/11' MSL.
Rwy 12, heading right turn to intercept DHP VORTAC R-125 to 1100 before turning left.
Rwy 26L,26R, heading right turn to 600 before turning left.
Rwy 27, heading 272° to 600 before turning right.

TAKEOFF OBSTACLE NOTES:

Rwy 8L, multiple buildings with antennas and towers beginning 1350' from DER, 690' left of centerline, up to 160' AGL/172' MSL.
Rwy 8R, trees beginning 4064' from DER, 958' right of centerline, up to 93' AGL/112' MSL.
Rwy 9, lights windsock 21' from DER, 437' right of centerline, 21' AGL/30' MSL.
Pole 4035' from DER, 1258' right of centerline, 108' AGL/125' MSL.
Electrical system 1231' from DER, 785' left of centerline, 33' AGL/47' MSL.
Rwy 12, 3', VORTAC R-125 to 1100 before turning right.
Rwy 13, 3', heading 133° to 900 before turning left.

MIAMI INTL (MIA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES AND DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 17A  03MAY12  (12124)  (FAA)

TAKEOFF MINIMUMS:

Rwy 8L, 300-1½ or std. w/ min. climb of 382' per NM to 300.
Rwy 9, std. w/ min. climb of 240' per NM to 1200.

DEPARTURE PROCEDURE:

Rwy 8L, heading 092° to 1000 before turning right.
Rwy 12, heading right turn to intercept DHP VORTAC R-125 to 1100 before turning left.
Rwy 26L,26R, heading right turn to 600 before turning left.
Rwy 27, heading 272° to 600 before turning right.

MIAMI EXECUTIVE (TMB)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 17A  03MAY12  (12124)  (FAA)

DEPARTURE PROCEDURE:

Rwy 9L, heading 093° to 800 before turning right.
Rwy 9R, heading 133° to 1400 before turning right.
Rwy 13, climbing right turn to intercept DHP VORTAC R-125 to 1100 before turning left.
Rwy 27L, climbing right turn to 600 before turning left.
Rwy 27R, climbing right turn to 1300 before turning left.
Rwy 31, climbing 313° to 900 before turning left.

TAKEOFF OBSTACLE NOTES:

Rwy 9L, trees beginning 1731' from DER, 717' left of centerline, up to 100' AGL/119' MSL.
Rwy 9L, signs beginning 35' from DER, 182' left of centerline, up to 3' AGL/11' MSL.
Rwy 12, heading right turn to intercept DHP VORTAC R-125 to 1100 before turning left.
Rwy 26L,26R, heading right turn to 600 before turning left.
Rwy 27, heading 272° to 600 before turning right.

TAKEOFF OBSTACLE NOTES:

Rwy 8L, multiple buildings with antennas and towers beginning 1350' from DER, 690' left of centerline, up to 160' AGL/172' MSL.
Rwy 8R, trees beginning 4064' from DER, 958' right of centerline, up to 93' AGL/112' MSL.
Multiple power lines, antennas and trees beginning 1876' from DER, 93' left of centerline up to 63' AGL/77' MSL.

Roadway beginning 1876' from DER, 93' left of centerline, up to 63' AGL/77' MSL.

Numerous poles and signs beginning 1876' from DER, 93' left of centerline up to 63' AGL/77' MSL.

Light pole 1249' from DER, 588' right of centerline, 56' AGL/70' MSL.

Building 740' from DER, 511' right of centerline, 14' AGL/28' MSL.

Transmission towers beginning 1858' from DER, 785' left of centerline, 33' AGL/47' MSL.

Numerous poles beginning 1090' from DER, 36' right of centerline, up to 44' AGL/59' MSL.

Numerous poles beginning 1090' from DER, 36' right of centerline, up to 44' AGL/59' MSL.

Building 740' from DER, 511' right of centerline, 14' AGL/28' MSL.

Trees beginning 1047' from DER, 272' right of centerline, up to 66' AGL/80' MSL.

Trees beginning 163' from DER, 410' left of centerline, up to 100' AGL/119' MSL.

Tree 3583' from DER, 360' right of centerline, 100' AGL/119' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

L20

10 SEP 2020 to 08 OCT 2020
MIAMI, FL (CON’T)
MIAMI-OPA LOCKA EXECUTIVE (OPF)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 9A  29MAR18  (18088)  (FAA)

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

DEPARTURE PROCEDURE:
Rwy 9L, climb heading 093° to 1100 before turning north.
Rwy 9R, climb heading 093° to 1000 before turning north.
Rwy 12, climb heading 128° to 600 before turning north.
Rwy 27R, climb heading 273° to 500 before turning north.
TAKEOFF OBSTACLE NOTES:
Rwy 9L, fence 48’ from DER, 498’ left of centerline, 10’ AGL/17’ MSL.
Utility line 57’ from DER, 505’ left of centerline, 9’ AGL/16’ MSL.
Airport sign 40’ from DER, 311’ right of centerline, 2’ AGL/9’ MSL.
Tree 103’ from DER, 481’ left of centerline, 9’ AGL/16’ MSL.
Trees beginning 1632’ from DER, 657’ left of centerline, up to 43’ AGL/57’ MSL.
Trees beginning 3215’ from DER, 885’ right of centerline, up to 81’ AGL/ 95’ MSL.
Rwy 9R, airfield light 6’ from DER, 59’ right of centerline, 1’ AGL/7’ MSL.
Light pole 1439’ from DER, 739’ right of centerline, 38’ AGL/45’ MSL.
Pole 1436’ from DER, 735’ left of centerline, 40’ AGL/47’ MSL.
Pole 1581’ from DER, 892’ right of centerline, 40’ AGL/47’ MSL.
Tree 11’ from DER, 502’ right of centerline, 8’ AGL/15’ MSL.

MILTON, FL
PETER PRINCE FIELD (2R4)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A  01JUL10  (10182)  (FAA)

TAKEOFF OBSTACLE NOTES:
Rwy 18, trees beginning 102’ from DER, 51’ left of centerline, up to 93’ AGL/163’ MSL.
Trees beginning 1014’ from DER, 13’ right of centerline, up to 83’ AGL/153’ MSL.
Pole 711’ from DER, 164’ left of centerline, 40’ AGL/106’ MSL.
Poles beginning 766’ from DER, 68’ right of centerline, 40’ AGL/109’ MSL.
Railroad 572’ from end of runway, 23’ AGL/110’ MSL.
Road 549’ from DER, 17’ AGL/94’ MSL.

NAPLES, FL
NAPLES MUNI (APF)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2  17DEC09  (09351)  (FAA)

TAKEOFF OBSTACLE NOTES:
Rwy 14, trees beginning 102’ from DER, 51’ left of centerline, up to 93’ AGL/163’ MSL.
Trees beginning 1014’ from DER, 13’ right of centerline, up to 83’ AGL/153’ MSL.
Pole 711’ from DER, 164’ left of centerline, 40’ AGL/106’ MSL.
Poles beginning 766’ from DER, 68’ right of centerline, 40’ AGL/109’ MSL.
Tower 2543’ from DER, 565’ right of centerline, 76’ AGL/94’ MSL.
Antenna on building 2526’ from DER, 572’ right of centerline, 74’ AGL/82’ MSL.
Tower 3760’ from DER, 969’ right of centerline, 100’ AGL/105’ MSL.
Trees beginning 1312’ from DER, 590’ left of centerline, up to 43’ AGL/51’ MSL.
Trees beginning 1711’ from DER, 614’ right of centerline, up to 78’ AGL/86’ MSL.

NAPLES, FL
NAPLES MUNI (APF)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2  17DEC09  (09351)  (FAA)

DEPARTURE PROCEDURE:
Rwy 14, climb heading 137° to 600 before turning left.
TAKEOFF OBSTACLE NOTES:
Rwy 5, trees beginning 92’ from DER, left and right of centerline, up to 82’ AGL/92’ MSL.
Tanks 1308’ from DER, 293’ left of centerline, up to 34’ AGL/44’ MSL.
Rwy 14, trees beginning 97’ from DER, left and right of centerline, up to 101’ AGL/108’ MSL.
Rwy 23, trees beginning 126’ from DER, left and right of centerline, up to 66’ AGL/70’ MSL.
Rwy 32, trees beginning 339’ from DER, left and right of centerline, up to 119’ AGL/123’ MSL.
NEW SMYRNA BEACH, FL
NEW SMYRNA BEACH MUNI (EVB)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 20JUN19 (19171) (FAA)
TAKEOFF OBSTACLE NOTES:
**Rwy 2**, sign 55' from DER, 494' right of centerline, 3' AGL/12' MSL.
Sign 70' from DER, 289' right of centerline, 3' AGL/11' MSL.
Trees beginning 462' from DER, 429' left of centerline, up to 42' MSL.
Trees beginning 572' from DER, 283' left of centerline, up to 44' MSL.
Trees beginning 952' from DER, 256' left of centerline, up to 69' MSL.
Trees beginning 1067' from DER, 282' left of centerline, up to 72' MSL.
Tree 1250' from DER, 607' left of centerline, 79' MSL.
Trees and poles beginning 1270' from DER, 22' left of centerline, up to 91' MSL.
Tree 1786' from DER, 564' right of centerline, 55' MSL.
Tree 1816' from DER, 584' right of centerline, 56' MSL.
**Rwy 7**, tree, fence, road beginning 38' from DER, 0' of centerline, up to 45' MSL.
Fences, roads beginning 167' from DER, on centerline and left of centerline, up to 7' AGL/26' MSL.
Trees beginning 309' from DER, 17' left of centerline, up to 36' MSL.
Transmission line, tree beginning 348' from DER, 198' right of centerline, up to 45' AGL/51' MSL.
Trees, transmission line beginning 793' from DER, 54' left of centerline, up to 56' MSL.
Transmission line 890' from DER, 151' right of centerline, 56' AGL/58' MSL.
Transmission line 1201' from DER, 173' left of centerline, 55' AGL/57' MSL.
Transmission line, pole beginning 1480' from DER, 150' left of centerline, up to 58' AGL/60' MSL.
Transmission line, pole beginning 1832' from DER, 145' left of centerline, up to 54' AGL/61' MSL.
**Rwy 11**, lighting beginning 6' from DER, left and right of centerline, 1' AGL/12' MSL.
Road, tree beginning 408' from DER, 400' left of centerline, up to 61' MSL.
Tree, pole, road beginning 532' from DER, 222' left of centerline, up to 65' MSL.
Trees beginning 634' from DER, 350' left of centerline, up to 68' MSL.
Tree 1283' from DER, 353' right of centerline, 51' MSL.
Trees beginning 1360' from DER, 421' right of centerline, up to 64' MSL.
Pole, tree beginning 1671' from DER, 788' right of centerline, up to 70' AGL/75' MSL.
**Rwy 20**, trees, road, sign, pole beginning 12' from DER, on centerline, up to 75' MSL.
Trees beginning 253' from DER, 341' left of centerline, up to 52' MSL.
Tree, pole, road beginning 343' from DER, 12' left of centerline, up to 71' MSL.
Tree, pole beginning 542' from DER, 63' right of centerline, up to 80' MSL.
Tree, pole beginning 1052' from DER, 7' right of centerline, up to 82' MSL.
Trees beginning 1195' from DER, 29' left of centerline, up to 80' MSL.
Trees, pole beginning 1345' from DER, 9' left of centerline, up to 84' MSL.
Trees beginning 1826' from DER, 479' right of centerline, up to 85' MSL.
**Rwy 25**, tree 30' from DER, 302' right of centerline, 28' MSL.
Trees, fence, pole beginning 76' from DER, left and right of centerline, up to 44' MSL.
Trees beginning 160' from DER, 84' right of centerline, up to 53' MSL.
Trees beginning 354' from DER, left and right of centerline, 58' MSL.
Trees beginning 420' from DER, 366' left of centerline, up to 66' MSL.
Pole, tree beginning 1376' from DER, 120' left of centerline, up to 72' AGL/77' MSL.
Trees, pole beginning 1566' from DER, 24' left of centerline, up to 83' MSL.
Trees beginning 1712' from DER, 3' right of centerline, up to 96' MSL.
**Rwy 29**, trees, runway lighting beginning 4' from DER, left and right of centerline, up to 2' AGL/30' MSL.
Trees beginning 452' from DER, 462' right of centerline, 62' MSL.
Tree, pole beginning 500' from DER, 292' right of centerline, up to 69' MSL.
Trees beginning 1289' from DER, left and right of centerline, up to 85' MSL.
Trees beginning 1534' from DER, 17' right of centerline, 89' MSL.
Trees beginning 1788' from DER, 88' left of centerline, up to 98' MSL.
Trees beginning 1852' from DER, 72' left of centerline, up to 100' MSL.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)
NEW SMYRNA BEACH, FL (CON’T)
MASSEY RANCH AIRPARK (X50)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 23JUN16 (16175) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 18, Bush 11’ from DER, 128’ left of centerline, 14’ MSL.
Trees beginning 24’ from DER, 282’ right of centerline, up to 42’ MSL.
Tree 78’ from DER, 443’ right of centerline, 53’ MSL.
Tree and bush beginning 148’ from DER, 137’ left of centerline, up to 57’ MSL.
Trees beginning 189’ from DER, 196’ right of centerline, up to 71’ AGL/78’ MSL.
Tree and pole beginning 286’ from DER, 5’ left of centerline, up to 83’ MSL.
Trees beginning 1457’ from DER, 7’ right of centerline, up to 84’ MSL.
Tree and pole beginning 1932’ from DER, 39’ right of centerline, up to 89’ MSL.
Trees beginning 2659’ from DER, 64’ right of centerline, up to 91’ MSL.
Tree 3307’ from DER, 542’ right of centerline, 96’ MSL.

Rwy 36, Vehicles on road and in parking lot, tree, pole, and t-l tower beginning 7’ from DER, 48’ left of centerline, up to 48’ AGL/56’ MSL.
Tree, pole, and t-l tower beginning 199’ from DER, 12’ right of centerline, up to 67’ MSL.
Tree and pole beginning 289’ from DER, 172’ right of centerline, up to 75’ MSL.
Tree, t-l tower, and pole beginning 355’ from DER, 4’ left of centerline, up to 68’ AGL/77’ MSL.
Tree, and building beginning 606’ from DER, 34’ left of centerline, up to 81’ MSL.
Tree and building beginning 1215’ from DER, 4’ right of centerline, up to 82’ MSL.
Trees beginning 1418’ from DER, 144’ right of centerline, up to 57’ MSL.
Trees beginning 1499’ from DER, 7’ left of centerline, up to 88’ MSL.
Antenna 4763’ from DER, 506’ right of centerline, 154’ AGL/160’ MSL.
Tower 4777’ from DER, 430’ right of centerline, 152’ AGL/161’ MSL.

OCALA, FL
OCALA INTL-JIM TAYLOR FLD (OCF)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 15JAN09 (09015) (FAA)
DEPARTURE PROCEDURE:
Rwy 8, climb heading 069° to 500 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 18, trees beginning 316’ from DER, 527’ right of centerline, up to 30’ AGL/106’ MSL.
Rwy 26, trees beginning 83’ from DER, 255’ left of centerline, up to 100’ AGL/204’ MSL.
Trees beginning 272’ from DER, 10’ right of centerline, up to 100’ AGL/194’ MSL.
Rwy 36,表现为 level aircraft, 43’ from DER, 305’ right of centerline, up to 10’ AGL/94’ MSL.
Trees beginning 196’ from DER, 500’ left of centerline, up to 70’ AGL/164’ MSL.
Trees beginning 2668’ from DER, 305’ right of centerline, up to 70’ AGL/162’ MSL.

ORLANDO, FL
EXECUTIVE (ORL)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 4 15NOV12 (12320) (FAA)
DEPARTURE PROCEDURE:
Rwy 25, climb heading 253° to 700 before turning right.
Rwy 31, climb heading 317° to 600 before turning left.
TAKEOFF OBSTACLE NOTES:
Rwy 7, trees beginning 189’ from DER, 542’ right of centerline, up to 114’ AGL/132’ MSL.
Tree 882’ from DER, 709’ left of centerline, 44’ AGL/143’ MSL.
Rwy 25, trees beginning 1314’ from DER, 597’ right of centerline, up to 119’ AGL/191’ MSL.
Rwy 31, numerous roads, poles, towers, signs, trees and buildings left and right of centerline, beginning 300’ from DER, 481’ right of centerline, up to 119’ AGL/173’ MSL.
Rwy 31, building 2.1 NM from DER, 5569’ left of centerline, 435’ AGL/524’ MSL.
Numerous trees, poles, towers, antennas and buildings left and right of centerline, beginning 613’ from DER, 442’ left of centerline, up to 126’ AGL/189’ MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

ORLANDO, FL (CON’T)
KISSIMMEE GATEWAY (ISM)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A  15AUG19  (19227)  (FAA)
TAKEOFF MINIMUMS:
Rwy 6, 300-1
TAKEOFF OBSTACLE NOTES:
Rwy 6, vehicles on road, terrain beginning 23’ from DER, 165’ left of centerline, up to 93’ MSL.
Vehicles on road beginning 55’ from DER, 421’ right of centerline, up to 91’ MSL.
Poles, building beginning 592’ from DER, 280’ right of centerline, up to 44’ AGL/113’ MSL.
Tree 1061’ from DER, 654’ left of centerline, 123’ MSL.
Poles, trees beginning 1168’ from DER, 360’ left of centerline, up to 54’ AGL/127’ MSL.
Pole 1242’ from DER, 656’ right of centerline, 45’ AGL/114’ MSL.
Trees beginning 1636’ from DER, 207’ left of centerline, up to 129’ MSL.
Tree 1836’ from DER, 708’ left of centerline, 135’ MSL.
Trees beginning 1846’ from DER, 11’ left of centerline, up to 144’ MSL.
Tree 2304’ from DER, 822’ right of centerline, 136’ MSL.
Rwy 15, tree 117’ from DER, 417’ right of centerline, 125’ MSL.
Tree, poles beginning 483’ from DER, 19’ right of centerline, up to 136’ MSL.
Trees beginning 1216’ from DER, 203’ left of centerline, up to 135’ MSL.
Rwy 24, trees, fence beginning 36’ from DER, 251’ left of centerline, up to 123’ MSL.
Trees beginning 584’ from DER, 285’ right of centerline, up to 110’ MSL.
Tree 1200’ from DER, 278’ right of centerline, 121’ MSL.
Poles, trees beginning 1347’ from DER, 83’ right of centerline, up to 63’ AGL/130’ MSL.
Tree 1503’ from DER, 475’ left of centerline, 124’ MSL.
Trees beginning 1561’ from DER, 281’ left of centerline, up to 125’ MSL.
Tree, pole beginning 1634’ from DER, 328’ left of centerline, up to 127’ MSL.
Pole, trees beginning 1710’ from DER, 232’ left of centerline, up to 75’ AGL/145’ MSL.
Tree 2168’ from DER, 997’ right of centerline, 143’ MSL.
Trees beginning 2209’ from DER, 703’ right of centerline, up to 153’ MSL.
Trees beginning 2320’ from DER, 80’ right of centerline, up to 156’ MSL.
Tree 2628’ from DER, 89’ left of centerline, 149’ MSL.
Tree 2935’ from DER, 1’ left of centerline, 157’ MSL.
Rwy 33, pole 910’ from DER, 656’ right of centerline, 45’ AGL/129’ MSL.
Trees beginning 1141’ from DER, 565’ left of centerline, up to 140’ MSL.
Tree 1166’ from DER, 777’ right of centerline, 136’ MSL.
Tree 2608’ from DER, 222’ right of centerline, 148’ MSL.

ORLANDO INTL (MCO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3A  07DEC17  (17341)  (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 17L, NAVAID 9’ from DER, on centerline, 1’ AGL/90’ MSL.
Light pole 9’ from DER, 120’ left of centerline, 3’ AGL/91’ MSL.
Tree 1534’ from DER, 902’ left of centerline, 74’ AGL/152’ MSL.
Rwy 17R, tree 1373’ from DER, 855’ right of centerline, 58’ AGL/133’ MSL.
Trees beginning 1473’ from DER, 873’ right of centerline, up to 60’ AGL/136’ MSL.
Rwy 18L, light pole 13’ from DER, 283’ right of centerline, 3’ AGL/94’ MSL.
Tree 2863’ from DER, 1079’ left of centerline, 89’ AGL/169’ MSL.
Trees beginning 2930’ from DER, 1166’ left of centerline, up to 95’ AGL/171’ MSL.
Rwy 18R, light pole 14’ from DER, 282’ left of centerline, 3’ AGL/92’ MSL.
Rwy 35L, light pole 15’ from DER, 283’ right of centerline, 5’ AGL/92’ MSL.
Pole 1250’ from DER, 886’ left of centerline, 45’ AGL/129’ MSL.
Rwy 35R, NAVAID 9’ from DER, on centerline, 1’ AGL/90’ MSL.
NAVAID 1191’ from DER, 768’ right of centerline, 36’ AGL/125’ MSL.
Pole 1661’ from DER, 922’ right of centerline, 44’ AGL/133’ MSL.
Pole 1712’ from DER, 916’ left of centerline, 25’ AGL/134’ MSL.
Trees beginning 2235’ from DER, 1012’ right of centerline, up to 167’ MSL.
Rwy 36L, sign 3’ from DER, 373’ left of centerline, 3’ AGL/93’ MSL.
Pole 1081’ from DER, 779’ left of centerline, 45’ AGL/137’ MSL.
Sign 1063’ from DER, 775’ right of centerline, 38’ AGL/123’ MSL.
Rwy 36R, building and tree beginning 962’ from DER, 582’ right of centerline, up to 30’ AGL/121’ MSL.
Sign 1054’ from DER, 704’ left of centerline, 29’ AGL/119’ MSL.
Sign 1062’ from DER, 725’ left of centerline, 38’ AGL/123’ MSL.
ORLANDO, FL (CON’T)
ORLANDO SANFORD INTL (SFB)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 10 02MAY13 (13122) (FAA)
DEPARTURE PROCEDURE:
Rwy 27L, climb heading 275° to 800 before proceeding northbound.
Rwy 27C, climb heading 275° to 900 before proceeding northbound.
Rwy 27R, climb heading 275° to 900 before proceeding northbound.
Rwy 36, climb heading 005° to 2000 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 9, pole at DER, 277' left of centerline, 7' AGL/25' MSL.
Rwy 18, pole at DER, 276' left of centerline, 9' AGL/57' MSL.
Rwy 27R, antenna on building 131' from DER, 441' right of centerline, 18' AGL/67' MSL.
Pole 1079' from DER, 314' right of centerline, 36' AGL/78' MSL.
Trees beginning 1130' from DER, 90' right of centerline, to 82' AGL/112' MSL.
Rwy 27R, antenna on building 131' from DER, 441' right of centerline, 18' AGL/67' MSL.
Poles and trees beginning 1157' from DER, 146' left of centerline, to 65' AGL/120' MSL.
Trees beginning 1395' from DER, 66' right of centerline, to 67' AGL/116' MSL.
Rwy 27C, building beginning 1548' from DER, 336' left of centerline, to 47' AGL/101' MSL.
Rwy 9, vehicles on roadway beginning 22' from DER, left and right of centerline, up to 15' AGL/62' MSL.
Pole 1079' from DER, 314' right of centerline, 36' AGL/78' MSL.
Trees beginning 1130' from DER, 90' right of centerline, to 82' AGL/112' MSL.
Rwy 27R, antenna on building 131' from DER, 441' right of centerline, 18' AGL/67' MSL.
Pole 1006' from DER, 692' right of centerline, 43' AGL/86' MSL.
Trees beginning 2733' from DER, left and right of centerline, up to 91' AGL/135' MSL.
Rwy 18, poles beginning 945' from DER, 482' left of centerline, up to 44' AGL/71' MSL.
Trees beginning 957' from DER, 280' left of centerline, up to 63' AGL/93' MSL.
Rwy 27L, approach lights beginning 32' from DER, on centerline, to 17' AGL/56' MSL.
Pole 1006' from DER, 692' right of centerline, 43' AGL/86' MSL.
Trees beginning 2733' from DER, left and right of centerline, up to 91' AGL/135' MSL.
Rwy 17, trees beginning 40' from DER, 334' left of centerline, up to 72' MSL.
Trees beginning 46' from DER, 328' right of centerline, up to 94' MSL.
Trees beginning 185' from DER, 49' left of centerline, to 85' MSL.
Trees, poles, building beginning 232' from DER, 104' right of centerline, up to 97' MSL.
Trees beginning 1090' from DER, 6' left of centerline, up to 86' MSL.
Trees beginning 1459' from DER, 15' left of centerline, up to 93' MSL.
Trees beginning 1609' from DER, 7' left of centerline, up to 95' MSL.
CON’T

ORMOND BEACH, FL
ORMOND BEACH MUNI (OMN)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-B 10OCT19 (19283) (FAA)
TAKEOFF MINIMUMS:
Rwy 9, 300-1 1/2 or std. w/min. climb of 239' per NM to 300, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 2000' prior to DER.
TAKEOFF OBSTACLE NOTES:
Rwy 9, tree 60' from DER, 370' left of centerline, 67' MSL.
Tree 188' from DER, 448' left of centerline, 86' MSL.
Trees beginning 254' from DER, 1' left of centerline, up to 93' MSL.
Trees beginning 431' from DER, 544' right of centerline, 65' MSL.
Trees beginning 457' from DER, 390' right of centerline, up to 66' MSL.
Trees beginning 773' from DER, 333' right of centerline, up to 70' MSL.
Trees beginning 811' from DER, 472' right of centerline, up to 73' MSL.
Trees beginning 932' from DER, 340' right of centerline, up to 80' MSL.
Trees beginning 1023' from DER, 223' right of centerline, up to 81' MSL.
Trees beginning 1088' from DER, 377' right of centerline, up to 82' MSL.
Trees beginning 1146' from DER, 65' right of centerline, up to 87' MSL.
Trees beginning 1358' from DER, 16' right of centerline, up to 88' MSL.
Trees beginning 1883' from DER, on and right of centerline, up to 92' MSL.
Trees beginning 2365' from DER, 254' left of centerline, up to 108' MSL.
Pole 5855' from DER, 1589' left of centerline, 195' MSL.
Rwy 17, trees beginning 40' from DER, 334' left of centerline, up to 72' MSL.
Trees beginning 46' from DER, 328' right of centerline, up to 94' MSL.
Trees beginning 185' from DER, 49' left of centerline, to 85' MSL.
Trees, poles, building beginning 232' from DER, 104' right of centerline, up to 97' MSL.
Trees beginning 1090' from DER, 6' left of centerline, up to 86' MSL.
Trees beginning 1459' from DER, 15' left of centerline, up to 93' MSL.
Trees beginning 1609' from DER, 7' left of centerline, up to 95' MSL.
CON’T
ORMOND BEACH, FL (CON’T)

ORMOND BEACH MUNI (OMN) (CON’T)

Rwy 17 (CON’T), trees beginning 1724’ from DER, 286’ right of centerline, up to 99’ MSL.
Trees beginning 1828’ from DER, 668’ left of centerline, up to 96’ MSL.
Trees beginning 1835’ from DER, 183’ left of centerline, up to 104’ MSL.
Trees beginning 1870’ from DER, 32’ left of centerline, up to 105’ MSL.
Trees beginning 1965’ from DER, 98’ right of centerline, up to 100’ MSL.
Trees beginning 2051’ from DER, 85’ left of centerline, up to 111’ MSL.
Trees beginning 2095’ from DER, 160’ right of centerline, up to 101’ MSL.
Trees beginning 2136’ from DER, 45’ left of centerline, up to 113’ MSL.
Tree 2188’ from DER, 207’ right of centerline, 102’ MSL.
Trees beginning 2200’ from DER, 16’ right of centerline, up to 110’ MSL.

Rwy 27, vegetation beginning 7’ from DER, 269’ right of centerline, up to 39’ MSL.
Tree 48’ from DER, 387’ right of centerline, 47’ MSL.
Trees beginning 58’ from DER, 10’ left of centerline, up to 99’ MSL.
Trees, vegetation beginning 83’ from DER, 163’ right of centerline, up to 90’ MSL.
Trees, vegetation beginning 312’ from DER, 155’ right of centerline, up to 103’ MSL.
Trees beginning 812’ from DER, 307’ right of centerline, up to 108’ MSL.
Trees beginning 1277’ from DER, 14’ left of centerline, up to 104’ MSL.
Trees beginning 1280’ from DER, 11’ right of centerline, up to 109’ MSL.
Trees beginning 2315’ from DER, 381’ left of centerline, up to 111’ MSL.

Rwy 35, trees beginning 48’ from DER, 264’ right of centerline, up to 47’ MSL.
Pole, tree beginning 242’ from DER, 380’ right of centerline, up to 54’ MSL.
Vegetation 266’ from DER, 395’ left of centerline, 35’ MSL.
Vegetation beginning 279’ from DER, 272’ left of centerline, up to 40’ MSL.
Trees, poles beginning 379’ from DER, 17’ right of centerline, up to 101’ MSL.
Trees beginning 466’ from DER, 385’ left of centerline, up to 93’ MSL.
Trees, poles beginning 602’ from DER, 41’ left of centerline, up to 97’ MSL.
Trees, poles beginning 1735’ from DER, 17’ left of centerline, up to 99’ MSL.

PALATKA, FL

PALATKA MUNI-LT KAY LARKIN FIELD (28J)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 19SEP13 (13262) (FAA)
TAKEOFF MINIMUMS:

Rwy 9, - NA.

DEPARTURE PROCEDURE:

Rwy 24, climb heading 241° to 600 before turning right.
Rwy 29, climb heading 280° to 1600 before turning right.

TAKEOFF OBSTACLE NOTES:

Rwy 6, pole 9’ from DER, 29’ right of centerline, 2’ AGL/33’ MSL.
Trees beginning 244’ from DER, 440’ right of centerline, up to 43’ MSL.
Tree 375’ from DER, 570’ right of centerline, 44’ MSL.
Trees beginning 474’ from DER, 43’ left of centerline, up to 99’ MSL.
Trees beginning 497’ from DER, 474’ right of centerline, up to 52’ MSL.
Tree 706’ from DER, 143’ right of centerline, 56’ MSL.
Tree 726’ from DER, 418’ right of centerline, 72’ MSL.
Tree 728’ from DER, 546’ right of centerline, 74’ MSL.

CON’T
PALM COAST, FL (CON’T)

FLAGLER EXECUTIVE (FIN) (CON’T)

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

Rwy 6 (CON’T), trees beginning 792’ from DER, 482’ right of centerline, up to 57’ AGL/85’ MSL.
Trees beginning 925’ from DER, 31’ right of centerline, up to 89’ MSL.
Tree 1796’ from DER, 363’ left of centerline, 102’ MSL.
Tree 1802’ from DER, 420’ left of centerline, 103’ MSL.
Trees beginning 1817’ from DER, 505’ left of centerline, up to 108’ MSL.
Tree 2016’ from DER, 16’ right of centerline, 97’ MSL.
Trees beginning 2475’ from DER, 405’ right of centerline, up to 122’ MSL.
Tree 3253’ from DER, 565’ left of centerline, 115’ MSL.

Rwy 11, trees beginning 18’ from DER, 192’ left of centerline, up to 54’ MSL.
Trees beginning 34’ from DER, 120’ right of centerline, up to 35’ AGL/60’ MSL.
Trees, water tower beginning 246’ from DER, 18’ right of centerline, up to 63’ MSL.
Tree 319’ from DER, 493’ left of centerline, 55’ MSL.
Trees beginning 336’ from DER, 1’ left of centerline, up to 57’ MSL.
Trees, poles beginning 561’ from DER, 410’ left of centerline, up to 87’ MSL.

Trees beginning 723’ from DER, 297’ left of centerline, up to 92’ MSL.
Trees beginning 775’ from DER, 353’ left of centerline, up to 98’ MSL.

Rwy 11, trees beginning 803’ from DER, 285’ left of centerline, up to 101’ MSL.
Trees beginning 1115’ from DER, 549’ right of centerline, up to 64’ MSL.
Trees beginning 1272’ from DER, 320’ right of centerline, up to 89’ MSL.
Trees beginning 1465’ from DER, 134’ right of centerline, up to 103’ MSL.
Trees beginning 1862’ from DER, 390’ left of centerline, up to 107’ MSL.
Trees beginning 1906’ from DER, 293’ left of centerline, up to 112’ MSL.
Trees beginning 2151’ from DER, 23’ left of centerline, up to 113’ MSL.
Trees beginning 2273’ from DER, 11’ right of centerline, up to 107’ MSL.
Trees beginning 2495’ from DER, 24’ left of centerline, up to 114’ MSL.
Trees beginning 2699’ from DER, 101’ left of centerline, up to 116’ MSL.
Trees beginning 2789’ from DER, 120’ left of centerline, up to 120’ MSL.
Trees beginning 3370’ from DER, 638’ left of centerline, up to 108’ AGL/131’ MSL.

Rwy 24, tree 142’ from DER, 441’ right of centerline, 88’ MSL.
Tree 1315’ from DER, 639’ left of centerline, 111’ MSL.

Rwy 29, tree 46’ from DER, 408’ left of centerline, 88’ MSL.
Tree 163’ from DER, 424’ left of centerline, 67’ AGL/92’ MSL.
Trees beginning 294’ from DER, 19’ left of centerline, up to 86’ AGL/110’ MSL.
Tree 1121’ from DER, 128’ right of centerline, 39’ AGL/62’ MSL.
Trees beginning 1122’ from DER, 103’ right of centerline, 43’ AGL/67’ MSL.
Tree 1148’ from DER, 6’ right of centerline, 46’ AGL/69’ MSL.
Trees beginning 1170’ from DER, 13’ right of centerline, up to 48’ AGL/71’ MSL.
Tree 1426’ from DER, 28’ right of centerline, 53’ AGL/78’ MSL.
Trees beginning 1431’ from DER, 1’ right of centerline, up to 56’ AGL/79’ MSL.
Tree 1582’ from DER, 848’ right of centerline, 83’ MSL.
Tree 1772’ from DER, 786’ right of centerline, 92’ MSL.
Trees beginning 1862’ from DER, 390’ left of centerline, up to 107’ MSL.
Trees beginning 1906’ from DER, 293’ left of centerline, up to 92’ MSL.

PAHOKEE, FL

PALM BEACH COUNTY GLADES (PHK)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 01FEB18 (18032) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 18, vegetation 131’ from DER, 371’ right of centerline, 26’ MSL.
Tree 565’ from DER, 292’ right of centerline, 30’ MSL.
Sign 634’ from DER, 502’ right of centerline, 6’ AGL/42’ MSL.
Terrain 721’ from DER, 513’ right of centerline, 40’ MSL.
Tree 751’ from DER, 320’ right of centerline, 42’ MSL.
Tower 1589’ from DER, 691’ left of centerline, 132’ AGL/142’ MSL.

Rwy 36, tree 701’ from DER, 645’ right of centerline, 74’ MSL.
Tree 1076’ from DER, 325’ left of centerline, 63’ MSL.
Pole 1098’ from DER, 131’ left of centerline, 35’ AGL/51’ MSL.
Tree 1099’ from DER, 157’ right of centerline, 56’ MSL.
Tree 1116’ from DER, 149’ left of centerline, 46’ MSL.
Pole 1241’ from DER, 50’ right of centerline, 35’ AGL/52’ MSL.
Tree 2059’ from DER, 103’ left of centerline, 68’ MSL.
Tree 2210’ from DER, 108’ right of centerline, 84’ MSL.
Tree 2816’ from DER, 280’ right of centerline, 93’ MSL.
Tree 2970’ from DER, 314’ right of centerline, 100’ MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

PANAMA CITY, FL
NORTHWEST FLORIDA BEACHES INTL (ECP)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 18NOV10 (10322) (FAA)
TAKEOFF MINIMUMS:
Rwys 3, 21, NA-Environmental.
TAKEOFF OBSTACLE NOTES:
Rwy 16, trees beginning 2644’ from DER, up to 82’ AGL/131’ MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)
ORIG 14SEP17 (17257) (FAA)
Rwys 16, 34, heading as assigned by ATC.

PATRICK AFB (KCOF)
COCOA BEACH, FL
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 26MAY16 (16147)
TAKEOFF MINIMUMS:
Rwy 3, 200-1½, or standard with minimum climb of 210 ft/NM to 500 ft. Alternatively, with std takeoff minimums and normal 200 ft/NM climb gradient, takeoff must occur no later than 1,300 ft prior to departure end of runway.
Rwy 11, Diverse departure authorized.
Rwy 21, 200-1¼, or standard with minimum climb of 220 ft/NM to 500 ft. Alternatively, with std takeoff minimums and normal 200 ft/NM climb gradient, takeoff must occur no later than 1,800 ft prior to departure end of runway.
Rwy 29, Diverse departure authorized.
TAKEOFF OBSTACLE NOTES:
Rwy 3, antenna 3074’ from DER, 1290’ left of centerline, 84’ MSL.
Tree 2816’ from DER, 1136’ left of centerline, 28’ MSL.
Tree 1901’ from DER, 994’ left of centerline, 66’ MSL.
Tree 2749’ from DER, 731’ left of centerline, 28’ MSL.
Terrain 16’ from DER, 500’ left of centerline, 12’ MSL.
Terrain 38’ from DER, 510’ left of centerline, 16’ MSL.
Terrain 46’ from DER, 512’ left of centerline, 16’ MSL.
Vehicles on road 735’ from DER, 620’ right of centerline, 20’ MSL.
Terrain 5877’ from DER, 2075’ left of centerline, 16’ MSL.
Rwy 11, vehicles on road 621’ from DER, 212’ left of centerline, 29’ MSL.
Vehicles on road 512’ from DER, 437’ left of centerline, 29’ MSL.
Vehicles on road 1031’ from DER, 664’ right of centerline, 29’ MSL.
Vehicles on road 832’ from DER, 240’ right of centerline, 29’ MSL.
Vehicles on road 666’ from DER, 91’ right of centerline, 37’ MSL.
Vehicles on road 934’ from DER, 472’ right of centerline, 29’ MSL.
Terrain 26’ from DER, 13’ right of centerline, 16’ MSL.
Terrain abeam inward of DER, 500’ left of centerline, 16’ MSL.
Vehicles on road 640’ from DER, 90’ right of centerline, 26’ MSL.
Rwy 21, sailboat 1787’ from DER, 984’ right of centerline, 43’ MSL.
Terrain 584’ from DER, 509’ left of centerline, 43’ MSL.
Terrain 46’ from DER, 512’ left of centerline, 20’ MSL.
Terrain 19’ from DER, 505’ left of centerline, 20’ MSL.
Terrain 16’ from DER, 500’ left of centerline, 20’ MSL.
Terrain 228’ from DER, 500’ right of centerline, 20’ MSL.
Terrain 127’ from DER, 534’ right of centerline, 17’ MSL.
Terrain 5878’ from DER, 2075’ left of centerline, 172’ MSL.
Rwy 29, cable 299’ from DER, 107’ right of centerline, 9’ MSL.
Vehicles on road 352’ from DER, 11’ right of centerline, 20’ MSL.
Vehicles on road 418’ from DER, 162’ right of centerline, 18’ MSL.
Vehicles on road 444’ from DER, 310’ right of centerline, 20’ MSL.
Cable 149’ from DER, 460’ right of centerline, 9’ MSL.
Rwy 29 , terrain abeam from DER, 500’ left of centerline, 13’ MSL.
Terrain 95’ from DER, 326’ left of centerline, 13’ MSL.
Terrain abeam DER, 25’ right of centerline, 16’ MSL.
Terrain 17’ from DER, 332’ right of centerline, 16’ MSL.
Boat 362’ from DER, 476’ left of centerline, 10’ MSL.
Bird cannon 98’ from DER, 455’ right of centerline, 8’ MSL.
Cable 177’ from DER, 133’ left of centerline, 10’ MSL.
Vegetation 389’ from DER, 350’ left of centerline, 45’ MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

PENSACOLA, FL
PENSACOLA INTL (PNS)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1  26JUL12  (12208)  (FAA)
DEPARTURE PROCEDURE:
- Rwy 26, climb heading 260° to 600 before turning south.
TAKEOFF OBSTACLE NOTES:
- Rwys 26, trees beginning 84’ from DER, left and right of centerline, up to 100’ AGL/146’ MSL.
- Trees 398’ from DER, 596’ left of centerline, 56’ AGL/132’ MSL.
- Rwys 35, trees beginning 490’ from DER, left and right of centerline, up to 100’ AGL/182’ MSL.

PENSACOLA NAS (FORREST SHERMAN FLD) (KNPA)
PENSACOLA, FL
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG  30JAN20  (20030)
TAKEOFF OBSTACLE NOTES:
- Rw 1, trees 3371’ from DER, 812’ left of cntrln, 94’ AGL/98’ MSL.
- Rw 7R, pylon 5177’ from DER, 487’ right of cntrln, 96’ AGL/142’ MSL.
- Rw 19, twr 2586’ from DER, 497’ right of cntrln, 96’ AGL/52’ MSL.
- Trees 738’ from DER, 406’ left of cntrln, 0’ AGL/52’ MSL.
- Trees 1079’ from DER, 590’ right of centerline, 0’ AGL/51’ MSL.

PERRY, FL
PERRY-FOLEY (FPY)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1B  21MAY20  (20142)  (FAA)
DEPARTURE PROCEDURE:
- Rw 36, climb on heading 350° to 600 before turning right.
TAKEOFF OBSTACLE NOTES:
- Rw 12, trees beginning 1227’ from DER, left and right of centerline, up to 100’ AGL/144’ MSL.
- Rw 18, traverse way 2’ from DER, 105’ right of centerline, 41’ MSL.
- Tree 5’ from DER, 256’ right of centerline, 43’ MSL.
- Tree 127’ from DER, 235’ right of centerline, 47’ MSL.
- Trees beginning 471’ from DER, 618’ left of centerline, up to 105’ MSL.
- Tree 764’ from DER, 703’ right of centerline, 91’ MSL.
- Trees beginning 801’ from DER, 400’ right of centerline, up to 105’ MSL.
- Trees beginning 858’ from DER, 8’ left of centerline, up to 110’ MSL.
- Trees beginning 914’ from DER, 0’ of centerline, up to 113’ MSL.
- Trees beginning 1061’ from DER, 42’ left of centerline, up to 121’ MSL.
- Trees beginning 1364’ from DER, 111’ right of centerline, up to 114’ MSL.
- Trees beginning 1843’ from DER, 24’ right of centerline, up to 85’ AGL/116’ MSL.
- Trees beginning 2236’ from DER, 109’ right of centerline, up to 117’ MSL.
- Trees beginning 2484’ from DER, 73’ right of centerline, up to 119’ MSL.
- Trees beginning 2643’ from DER, 74’ right of centerline, up to 81’ AGL/120’ MSL.
- Trees beginning 2696’ from DER, 167’ right of centerline, up to 129’ MSL.
- Trees beginning 2717’ from DER, 66’ right of centerline, up to 153’ MSL.
- Trees beginning 2834’ from DER, 104’ right of centerline, up to 155’ MSL.
- Rw 30, sign 112’ from DER, 265’ right of centerline, 5’ AGL/47’ MSL.
- Trees 768’ from DER, 683’ left of centerline, 116’ MSL.
- Trees beginning 836’ from DER, 408’ left of centerline, up to 122’ MSL.
- Tree, pole beginning 1090’ from DER, 54’ right of centerline, up to 99’ MSL.
- Tree, pole beginning 1178’ from DER, 38’ left of centerline, up to 129’ MSL.
- Tree 1323’ from DER, 606’ right of centerline, 101’ MSL.
- Trees beginning 1324’ from DER, 3’ right of centerline, up to 116’ MSL.
- Tree, pole beginning 1584’ from DER, 191’ left of centerline, up to 132’ MSL.
- Trees beginning 1588’ from DER, 173’ right of centerline, up to 123’ MSL.
- Trees beginning 1663’ from DER, 583’ right of centerline, up to 135’ MSL.
- Trees beginning 1805’ from DER, 393’ right of centerline, up to 100’ AGL/144’ MSL.
- Rw 36, vegetation 78’ from DER, 149’ left of centerline, 5’ AGL/47’ MSL.
- Sign 101’ from DER, 258’ right of centerline, 5’ AGL/47’ MSL.
- Tree 308’ from DER, 543’ right of centerline, 88’ MSL.
- Trees beginning 391’ from DER, 516’ right of centerline, up to 97’ MSL.
- Trees beginning 574’ from DER, 501’ left of centerline, up to 65’ MSL.
- Trees beginning 579’ from DER, 540’ right of centerline, up to 106’ MSL.
- Pole, catenary beginning 725’ from DER, 497’ left of centerline, up to 70’ MSL.
- Tree, pole beginning 741’ from DER, 2’ right of centerline, up to 113’ MSL.
- Tree 849’ from DER, 712’ left of centerline, 102’ MSL.
- Tree 932’ from DER, 749’ left of centerline, 109’ MSL.
- Tree, catenary, pole beginning 963’ from DER, 75’ left of centerline, up to 116’ MSL.
- Tree, antenna beginning 1401’ from DER, 10’ left of centerline, up to 135’ MSL.
- Trees beginning 2049’ from DER, 5’ left of centerline, up to 146’ MSL.
- Tree 2728’ from DER, 959’ right of centerline, 119’ MSL.

CONT
PERRY, FL (CON’T)
PERRY-FOLEY (FPY) (CON’T)
Rwy 36 (CON’T), trees beginning 2984’ from DER, 83’ right of centerline, up to 120’ MSL.
Trees beginning 3042’ from DER, 94’ right of centerline, up to 121’ MSL.
Trees beginning 3049’ from DER, 133’ right of centerline, up to 122’ MSL.
Trees beginning 3068’ from DER, 66’ right of centerline, up to 87’ AGL/128’ MSL.
Trees beginning 3176’ from DER, 5’ right of centerline, up to 89’ AGL/133’ MSL.
Tower 2.4 NM from DER, 4368’ right of centerline, 415’ AGL/454’ MSL.

PLANT CITY, FL
PLANT CITY (PCM)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 07MAY09 (09127) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 10, trees beginning 264’ from DER, 561’ left of centerline, up to 100’ AGL /229’ MSL.
Trees beginning 490’ from DER, 13’ left of centerline, up to 100’ AGL/239’ MSL.
Rwy 28, trees beginning 50’ from DER, 278’ right of centerline, up to 100’ AGL/254’ MSL.
Trees beginning 515’ from DER, 15’ left of centerline, up to 100’ AGL/249’ MSL.
Train on railroad tracks, 380’ from DER, 547’ left of centerline, up to 23’ AGL/172’ MSL.
Vehicles on roadway, 266’ from DER, 137’ left of centerline, up to 15’ AGL/169’ MSL.

POMPANO BEACH, FL
POMPANO BEACH AIRPARK (PMP)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 5 18SEP14 (14261) (FAA)
TAKEOFF MINIMUMS:
Rwy 10, 300-1¼ or std. w/ min. climb of 261’ per NM to 300.
Rwy 15, 400-1½ or std. w/ min. climb of 441’ per NM to 500.
TAKEOFF OBSTACLE NOTES:
Rwy 6, trees beginning 101’ from DER, 26’ left and 232’ right of centerline, up to 70’ AGL/88’ MSL.
Rwy 10, pole 154’ from DER, 131’ left of centerline, 9’ AGL/18’ MSL.
Trees, pole, and building beginning 427’ from DER, 12’ left and 343’ right of centerline, up to 49’ AGL/63’ MSL.
Poles and buildings beginning 1264’ from DER, 166’ left and 286’ right of centerline, up to 64’ AGL/72’ MSL.
Building 5670’ from DER, 604’ right of centerline, 186’ AGL/190’ MSL.
Buildings 1 NM from DER, 887’ left of centerline, up to 201’ AGL/210’ MSL.
Rwy 15, building, trees, and poles beginning 502’ from DER, 306’ left and 434’ right of centerline, 44’ AGL/54’ MSL.
Trees beginning 1229’ from DER, 152’ left and 190’ right of centerline, up to 71’ AGL/162’ MSL.
Building 5994’ from DER, 1491’ left of centerline, 213’ AGL/221’ MSL.
Building 1.1 NM from DER, 1259’ left of centerline, 300’ AGL/310’ MSL.
Building 1.7 NM from DER, 1385’ right of centerline, 255’ AGL/265’ MSL.
Rwy 24, trees beginning 190’ from DER, 304’ right of centerline, up to 30’ AGL/49’ MSL.
Trees beginning 423’ from DER, 3’ left of centerline, up to 47’ AGL/66’ MSL.
Tanks, building, tree, and pole beginning 630’ from DER, 23’ right of centerline, 60’ AGL/80’ MSL.
Trees beginning 2179’ from DER, 253’ left of centerline, up to 91’ AGL/110’ MSL.
Rwy 28, trees beginning 358’ from DER, 255’ left of centerline, up to 25’ AGL/44’ MSL.
Poles, buildings, trees, and tank beginning 722’ from DER, 33’ left and 238’ right of centerline, up to 45’ AGL/64’ MSL.
Rwy 33, buildings beginning 29’ from DER, 398’ left of centerline, 18’ AGL/34’ MSL.
Trees beginning 629’ from DER, 518’ left of centerline, up to 59’ AGL/77’ MSL.
Trees beginning 202’ from DER, 548’ right of centerline, up to 38’ AGL/56’ MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

PONCE, PR

MERCEDITA (PSE)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 6 15AUG19 (19227) (FAA)

TAKEOFF MINIMUMS:

Rwy 12, std. w/min. climb of 300’ per NM to 5300 or 5100-3 for VCOA.
Rwy 30, 500-1/4’ w/min. climb of 350’ per NM to 1300 or std. w/min. climb of 808’ per NM to 500 or 5100-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 12, climb heading 119° to 2500 then proceed on a heading between 304° CW to 248° from DER to avoid R-7105 and unmarked tethered balloon up to 15000 MSL.
Rwy 30, climbing left turn on a heading between 120° CW to 200° from Der. Do not proceed northbound (headings 316° CW 119°) until leaving 5000; do not proceed westbound (headings 200° CW 315°) until leaving 12000 to avoid R-7105 and unmarked tethered balloon up to 15000 MSL.

VCOA:
All runways: obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Mercedita airport at or above 5100 then climb heading 090° to SJU VORTAC R-239 to CLAYO INT/SJU 35 DME.

TAKEOFF OBSTACLE NOTES:

Rwy 12, trees beginning 126’ from DER, 480’ left of centerline, 5’ AGL/31’ MSL.
Poles beginning 126’ from DER, 435’ right of centerline, up to 68’ AGL/87’ MSL.
Trees beginning 306’ from DER, 500’ left of centerline, up to 33’ AGL/64’ MSL.
Poles and trees beginning 323’ from DER, 219’ right of centerline, up to 59’ AGL/88’ MSL.
Trees beginning 1003’ from DER, 368’ left of centerline, up to 33’ AGL/71’ MSL.
Poles and trees beginning 1189’ from DER, 1749’ right of centerline, 184’ AGL/210’ MSL.

Rwy 30, pole 143’ from DER, 238’ left of centerline, 43’ AGL/76’ MSL.
Pole 144’ from DER, 281’ right of centerline, 44’ AGL/87’ MSL.
Tree 3014’ from DER, 1264’ left of centerline, 133’ MSL.
Poles and trees beginning 3217’ from DER, 705’ right of centerline, up to 46’ AGL/353’ MSL.
Trees, poles, and transmission line beginning 3282’ from DER, 135’ right of centerline, up to 41’ AGL/355’ MSL.

Tree 3492’ from DER, 109’ left of centerline, 38’ AGL/53’ MSL.
Pole 5243’ from DER, 194’ left of centerline, 55’ AGL/172’ MSL.
Trees beginning 1028’ from DER, 188’ left of centerline, up to 73’ AGL/216’ MSL.

Buildings beginning 1.2 NM from DER, 1986’ left of centerline, up to 194’ AGL/259’ MSL.

PUNTA GORDA, FL

PUNTA GORDA (PGD)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 15OCT15 (15288) (FAA)

TAKEOFF MINIMUMS:

Rwys 9, 27, NA-airport authority request.

TAKEOFF OBSTACLE NOTES:

Rwy 14, trees beginning abeam DER, 421’ left of centerline, up to 100’ AGL/299’ MSL.

Vehicles on road abeam DER, 340’ left of centerline, 15’ AGL/214’ MSL.

Trees beginning abeam DER, 255’ right of centerline, up to 100’ AGL/309’ MSL.

Vehicles on road abeam DER, 174’ right of centerline, 15’ AGL/224’ MSL.

Rwy 32, trees beginning abeam DER, 307’ left of centerline, up to 100’ AGL/329’ MSL.

Vehicles on road abeam DER, 398’ left of centerline, 15’ AGL/244’ MSL.

Trees beginning 910’ from DER, 722’ right of centerline, up to 100’ AGL/329’ MSL.

Power line beginning 1225’ from DER, left and right of centerline, up to 79’ AGL/327’ MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

ST. AUGUSTINE, FL
NORTHEAST FLORIDA RGNL (SGJ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 25OCT07 (07298) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 2, trees 1355' from DER, 314' right of centerline, 100' AGL/104' MSL.
Rwy 20, aircraft on ramp abeam DER, 158' right of centerline, up to 32' AGL/41' MSL.
Aircraft on taxiway 182' from DER, on centerline, up to 32' AGL/42' MSL.
Buildings beginning 220' from DER, 402' right of centerline, up to 16' AGL/26' MSL.
Vehicles on road and train on railroad beginning 419' from DER, 599' right of centerline, up to 23' AGL/37' MSL.
Numerous trees beginning 589' from DER, 652' right of centerline, up to 100' AGL/114' MSL.
Numerous trees beginning 754' from DER, 586' left of centerline, up to 100' AGL/109' MSL.
Rwy 24, hangars beginning abeam DER, 400' left of centerline, up to 16' AGL/26' MSL.
Aircraft on ramp 55' from DER, 119' right of centerline up to 32' AGL/41' MSL.
Buildings beginning 150' from DER, 191' right of centerline, up to 34' AGL/44' MSL.
Vehicles on road and train on railroad beginning 571' from DER, on centerline, up to 23' AGL/37' MSL.
Numerous trees beginning 742' from DER, left and right of centerline, up to 100' AGL/114' MSL.
Rwy 24, numerous trees beginning 87' from DER, 418' left of centerline, up to 16' AGL/26' MSL.
Vehicles on road and train on railroad beginning at DER, 237' left of centerline, up to 23' AGL/37' MSL.
Numerous trees beginning 242' from DER, 2' right of centerline, up to 85' AGL/99' MSL.

ST. PETERSBURG, FL
ALBERT WHITTED (SPG)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 03JAN19 (19003) (FAA)
TAKEOFF MINIMUMS:
Rwy 36, 300-1 or std. w/min. climb of 289' per NM until 700'.
DEPARTURE PROCEDURE:
Rwy 7, climb heading 067° to 600 before turning right.
Rwy 18, climb heading 185° to 600 before turning right.
Rwy 25, climb heading 247° to 700 before turning left.
Rwy 36, climb heading 005° to 700 before turning left.
TAKEOFF OBSTACLE NOTES:
Rwy 7, ships beginning 243' from DER, on centerline, up to 100' MSL.
Rwy 18, trees beginning 147' from DER, 227' right of centerline, 35' MSL.
Ships beginning 227' from DER, on centerline, up to 100' AGL/100' MSL.
Rwy 25, fence 10' from DER, on centerline, 15' AGL/19' MSL.
Trees beginning 30' from DER, 9' left of centerline, up to 50' AGL/57' MSL.
Trees, building beginning 127' from DER, 70' right of centerline, up to 50' AGL/57' MSL.
Building, trees beginning 299' from DER, 9' left of centerline, up to 102' AGL/106' MSL.
Building, beginning 457' from DER, 116' right of centerline, up to 73' AGL/86' MSL.
Tree 2123' from DER, 182' left of centerline, 50' AGL/60' MSL.
Pole 3187' from DER, 159' right of centerline, 77' AGL/103' MSL.
Rwy 36, rwy, sign 33' from DER, 248' left of centerline, 6' AGL/10' MSL.
Sign 41' from DER, 238' right of centerline, 7' AGL/11' MSL.
Building 1816' from DER, 859' right of centerline, 88' AGL/94' MSL.
Building 3582' from DER, 1263' left of centerline, 104' AGL/109' MSL.
Building 4460' from DER, 1279' left of centerline, 153' AGL/166' MSL.

ST. PETERSBURG-CLEARWATER, FL
ST PETE-CLEARWATER INTL (PIE)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3B 29MAR18 (18088) (FAA)
TAKEOFF MINIMUMS:
Rwy 22, 200-1 1/4 or std. w/min. climb of 230' per NM to 300, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1700' prior to DER.
TAKEOFF OBSTACLE NOTES:
Rwy 4, trees beginning 174' from DER, 279' right of centerline, up to 61' AGL/65' MSL.
Bush 495' from DER, 258' right of centerline, 27' AGL/31' MSL.
Bush 511' from DER, 326' left of centerline, 17' AGL/21' MSL.
Bush 537' from DER, 323' left of centerline, 17' AGL/21' MSL.
Buildings beginning 523' from DER, 225' left of centerline, up to 26' AGL/25' MSL.
Rwy 15, building 689' from DER, 418' right of centerline, 34' AGL/44' MSL.
Buildings beginning 909' from DER, 98' right of centerline, up to 50' AGL/58' MSL.
Poles beginning 970' from DER, 114' right of centerline, up to 51' AGL/58' MSL.
Poles beginning 1015' from DER, 103' left of centerline, up to 40' AGL/47' MSL.
Signs beginning 1336' from DER, 198' left of centerline, 46' AGL/53' MSL.
Tree 2100' from DER, 996' right of centerline, 96' AGL/105' MSL.
Antenna on hopper 2583' from DER, 801' right of centerline, 76' AGL/89' MSL.
CON'T
ST. PETERSBURG-CLEARWATER, FL
ST PETE-CLEARWATER INTL (PIE)
Rwy 22, tower 123' from DER, 359' left of centerline, 24' AGL/33' MSL.
Trees beginning 1235' from DER, 270' left of centerline, up to 65' AGL/70' MSL.
Tower 559' from DER, 266' right of centerline, 153' AGL/168' MSL.
Rwy 36, boats beginning 646' from DER, 655' left of centerline, up to 25' AGL/25' MSL.

SAN JUAN, PR
FERNANDO LUIS RIBAS DOMINICCI (SIG)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 15OCT15 (15288) (FAA)
TAKEOFF MINIMUMS:
Rwy 9, 300-1 1/4 w/min. climb of 400' per NM to 2000.
Rwy 27, 300-1 w/min. climb of 300' per NM to 1200.
DEPARTURE PROCEDURE:
Rwy 9, climb heading 095° to 2000 before turning south.
Rwy 27, climb heading 275° to 1200 before turning south.
TAKEOFF OBSTACLE NOTES:
Rwy 9, vehicles on road beginning 190' from DER, crossing centerline, up to 15' AGL/23' MSL.
Trees beginning 200' from DER, up to 35' AGL/55' MSL.
Mobile crane 511' from DER, 570' right of centerline, 180' AGL/199' MSL.
Buildings with obstruction light beginning 1100' from DER, 430' right of centerline, up to 275' AGL/285' MSL.
Buildings beginning 2400' from DER, 640' right of centerline, up to 266' AGL/298' MSL.
Buildings beginning 3400' from DER, 200' left of centerline, up to 174' AGL/202' MSL.
Rwy 27, bushes beginning 20' from DER, left and right of centerline, up to 8' AGL/21 MSL.
Trees beginning 80' from DER, 390' right of centerline, up to 35' AGL/44' MSL.
Ships maneuvering from 2000' to 5200' from DER, up to 236' MSL.

LUIS MUNOZ MARIN INTL (SJU)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 8 26MAR20 (20086) (FAA)
DEPARTURE PROCEDURE:
Rwy 8, climb on a heading between 258° CW to 108° from DER, or min. climb of 352' per NM to 5000 for headings 109° through 257°.
Rwy 10, climb on a heading between 282° CW to 105° from DER, or min. climb of 357' per NM to 4900 for headings 106° through 281°.
Rwy 26, climb on a heading between 258° CW to 077° from DER, or min. climb of 304' per NM to 4800 for headings 078° through 257°.
Rwy 28, climb on a heading between 261° CW to 101° from DER, or min. climb of 311' per NM to 4800 for headings 102° through 260°.
TAKEOFF OBSTACLE NOTES:
Rwy 8, tree 16' from DER, 349' right of centerline, 17' MSL.
Tree 32' from DER, 433' right of centerline, 20' MSL.
Trees beginning 36' from DER, 273' left of centerline, up to 38' MSL.
Trees, NAVAID, vegetation beginning 37' from DER, 2' right of centerline, up to 26' MSL.
Trees beginning 152' from DER, 304' right of centerline, up to 51' MSL.
Trees beginning 558' from DER, 561' right of centerline, up to 53' MSL.
Tree 626' from DER, 616' right of centerline, 54' MSL.
Tree 638' from DER, 557' right of centerline, 55' MSL.
Trees beginning 642' from DER, 472' right of centerline, up to 57' MSL.
Tree 2576' from DER, 719' left of centerline, 88' MSL.
Tree 2846' from DER, 787' left of centerline, 91' MSL.
Tree 3677' from DER, 173' left of centerline, 102' MSL.
Tree 3716' from DER, 168' left of centerline, 111' MSL.
Rwy 10, tree 166' from DER, 290' right of centerline, 37' MSL.
Trees beginning 171' from DER, 69' right of centerline, up to 60' MSL.
Tree 685' from DER, 657' left of centerline, 59' MSL.
Tree 918' from DER, 694' left of centerline, 63' MSL.
Trees beginning 1089' from DER, 19' left of centerline, up to 74' MSL.
Tree 1388' from DER, 25' right of centerline, 62' MSL.
Trees beginning 1382' from DER, 59' right of centerline, up to 66' MSL.
Trees beginning 1491' from DER, 7' right of centerline, up to 67' MSL.
Trees beginning 1636' from DER, 114' left of centerline, up to 75' MSL.
Trees beginning 1736' from DER, 32' left of centerline, up to 81' MSL.
Trees beginning 1770' from DER, 5' right of centerline, up to 70' MSL.
Trees beginning 1880' from DER, 395' right of centerline, up to 85' MSL.
Tree 2919' from DER, 1208' left of centerline, 85' MSL.
Building 3495' from DER, 1294' left of centerline, 120' MSL.
Building 3809' from DER, 1333' left of centerline, 121' MSL.

CONT
SAN JUAN, PR (CON’T)
LAURO MUNOZ MARIN INTL (SJU) (CON’T)

Rwy 26, sign 1’ from DER, 349’ left of centerline, 10’ MSL.
Lighting 9’ from DER, 74’ right of centerline, 9’ MSL.
Vegetation 12’ from DER, 9’ right of centerline, 11’ MSL.
Tree 92’ from DER, 266’ right of centerline, 28’ MSL.
Tree 157’ from DER, 375’ left of centerline, 31’ MSL.
Tree 322’ from DER, 584’ left of centerline, 49’ MSL.
Trees beginning 417’ from DER, 44’ left of centerline, up to 70’ MSL.
Trees, pole beginning 484’ from DER, 611’ right of centerline, up to 48’ MSL.
Pole beginning 1325’ from DER, 766’ right of centerline, up to 50’ MSL.
Pole 1679’ from DER, 815’ right of centerline, 60’ MSL.
Pole 1797’ from DER, 813’ right of centerline, 64’ MSL.
Trees, pole, lighting beginning 1809’ from DER, 762’ right of centerline, up to 71’ MSL.
Trees, pole beginning 2308’ from DER, 621’ right of centerline, up to 79’ MSL.
Tree 2412’ from DER, 285’ left of centerline, 74’ MSL.
Trees beginning 2530’ from DER, 889’ right of centerline, up to 84’ MSL.

Rwy 28, lighting 10’ from DER, 5’ right of centerline, 1’ AGL/11’ MSL.
Vehicles on road, sign, trees, pole, building beginning 171’ from DER, 294’ left of centerline, up to 46’ MSL.
Trees beginning 423’ from DER, 344’ right of centerline, up to 35’ MSL.
Trees beginning 480’ from DER, 362’ right of centerline, up to 45’ MSL.
Trees beginning 700’ from DER, 576’ right of centerline, up to 46’ MSL.
Trees beginning 784’ from DER, 581’ right of centerline, up to 54’ MSL.
Trees beginning 927’ from DER, 480’ right of centerline, up to 57’ MSL.
Building, sign, trees beginning 954’ from DER, 456’ left of centerline, up to 92’ MSL.
Tree 1903’ from DER, 842’ right of centerline, 59’ MSL.
Trees beginning 1905’ from DER, 688’ right of centerline, up to 61’ MSL.

SARASOTA (BRADENTON), FL
SARASOTA/BRADENTON INTL (SRQ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2A 15DEC11 (11349) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 4, vehicles on road 79’ from DER, 500’ right of centerline, up to 17’ AGL/42’ MSL.
Buildings beginning 142’ from DER, 462’ left of centerline, up to 23’ AGL/48’ MSL.
Trees beginning 357’ from DER, 356’ right of centerline, up to 78’ AGL/101’ MSL.
Trees beginning 925’ from DER, 55’ right of centerline, up to 79’ AGL/102’ MSL.
Poles beginning 317’ from DER, 461’ right of centerline, up to 57’ AGL/80’ MSL.
Poles beginning 1215’ from DER, 113’ left of centerline, up to 42’ AGL/65’ MSL.
Camera 1012’ from DER, 251’ left of centerline, 29’ AGL/52’ MSL.

Rwy 22, vehicles on road 125’ from DER, through centerline, up to 17’ AGL/38’ MSL.
Trees beginning 235’ from DER, 518’ right of centerline, up to 103’ AGL/113’ MSL.
Trees beginning 419’ from DER, 18’ left of centerline, up to 95’ AGL/102’ MSL.
Poles/signs beginning 346’ from DER, 528’ right of centerline, up to 39’ AGL/53’ MSL.
Poles/signs beginning 882’ from DER, 38’ left of centerline, up to 46’ AGL/63’ MSL.
Buildings beginning 1689’ from DER, 61’ left of centerline, up to 65’ AGL/75’ MSL.

Pole 2225’ from DER, 751’ left of centerline, 65’ AGL/85’ MSL.

Rwy 32, wall 199’ from DER, 465’ left of centerline, up to 39’ AGL/49’ MSL.
Antenna 732’ from DER, 168’ left of centerline, 44’ AGL/54’ MSL.
Trees beginning 775’ from DER, 274’ left of centerline, up to 78’ AGL/88’ MSL.

Trees beginning 606’ from DER, 645’ right of centerline, 61’ AGL/71’ MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

SEBASTIAN, FL
SEBASTIAN MUNI (X26)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-B 11OCT18 (18284) (FAA)
TAKEOFF MINIMUMS:
- Rwy 10, 300-1/4 or std, w/min. climb of 293’ per NM to 300.
TAKEOFF OBSTACLE NOTES:
- Rwy 5, trees beginning 1700’ from DER, 494’ right of centerline, up to 100’ AGL/124’ MSL.
  Trees beginning 4060’ from DER, 391’ right of centerline, up to 100’ AGL/125’ MSL.
- Rwy 28, trees beginning 1035’ from DER, 391’ left of centerline, up to 100’ AGL/119’ MSL.
  Trees beginning 1057’ from DER, 515’ right of centerline, up to 100’ AGL/119’ MSL.
  Tree 107’ from DER, 263’ right of centerline, 9’ AGL/63’ MSL.

SEBRING, FL
SEBRING RGNL (SEF)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 02MAY13 (13122) (FAA)
TAKEOFF OBSTACLE NOTES:
- Rwy 1, fence, sign, Navaid, and trees beginning 28’ from DER, 108’ left of centerline, up to 9’ AGL/63’ MSL.
  Trees beginning 938’ from DER, 520’ right of centerline, up to 43’ AGL/102’ MSL.
  Trees beginning 1184’ from DER, 452’ left of centerline, up to 45’ AGL/104’ MSL.
  Trees beginning 1891’ from DER, 332’ right of centerline, up to 77’ AGL/132’ MSL.
- Rwy 25, storage racks and trees beginning 176’ from DER, 17’ left of centerline, up to 36’ AGL/55’ MSL.
  Antenna tower 4948’ from DER, 1539’ left of centerline, 151’ AGL/167’ MSL.
- Rwy 30, trees beginning 155’ from DER, 47’ left of centerline, up to 72’ AGL/86’ MSL.
  Poles and trees beginning 5’ from DER, 28’ right of centerline, up to 64’ AGL/78’ MSL.
  Trees beginning 362’ from DER, 473’ left of centerline, up to 100’ AGL/109’ MSL.
  Trees beginning 281’ from DER, 385’ right of centerline, up to 100’ AGL/109’ MSL.

STUART, FL
WITHAM FIELD (SUA)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2B 02MAY13 (13122) (FAA)
DEPARTURE PROCEDURE:
- Rwy 25, climb heading 290° to 1700 before proceeding on course.
- Rwy 30, climb heading 296° to 1300 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
- Rwy 7, trees beginning 75’ from DER, 289’ left of centerline, up to 100’ AGL/114’ MSL.
  Trees beginning 268’ from DER, 287’ right of centerline, up to 100’ AGL/109’ MSL.
- Rwy 12, pole and trees beginning 35’ from DER, 59’ left of centerline, up to 59’ AGL/73’ MSL.
  Trees beginning 763’ from DER, 45’ right of centerline, up to 67’ AGL/81’ MSL.
- Rwy 16, trees beginning 627’ from DER, 42’ left of centerline, up to 46’ AGL/60’ MSL.
  Trees beginning 70’ from DER, 202’ right of centerline, up to 92’ AGL/106’ MSL.
- Rwy 25, storage racks and trees beginning 176’ from DER, 17’ left of centerline, up to 36’ AGL/55’ MSL.
  Antenna tower 4948’ from DER, 1539’ left of centerline, 151’ AGL/167’ MSL.
- Rwy 30, trees beginning 155’ from DER, 47’ left of centerline, up to 72’ AGL/86’ MSL.
  Poles and trees beginning 5’ from DER, 28’ right of centerline, up to 64’ AGL/78’ MSL.
- Rwy 34, trees beginning 362’ from DER, 473’ left of centerline, up to 100’ AGL/109’ MSL.
  Trees beginning 281’ from DER, 385’ right of centerline, up to 100’ AGL/109’ MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

TALLAHASSEE, FL

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 17SEP15 (15260) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 9, control box 12' from DER, 123' right of centerline, 3' AGL/48' MSL.

Agricultural equipment, pole, mobile crane, and trees beginning 1237' from DER, 651' right of centerline, up to 74' AGL/134' MSL.

Rwy 18, trees beginning 2358' from DER, 761' left of centerline, up to 84' AGL/143' MSL.

Rwy 27, trees beginning 2463' from DER, 9' left of centerline, up to 62' AGL/171' MSL.

Rwy 36, trees beginning 1076' from DER, 94' right of centerline, up to 71' AGL/140' MSL.

TALLAHASSEE INTL (TLH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 17SEP15 (15260) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwv 9, control box 12' from DER, 123' right of centerline, 3' AGL/48' MSL.

Agricultural equipment, pole, mobile crane, and trees beginning 1237' from DER, 651' right of centerline, up to 74' AGL/134' MSL.

Rwy 18, trees beginning 2358' from DER, 761' left of centerline, up to 84' AGL/143' MSL.

Rwy 27, trees beginning 2463' from DER, 9' left of centerline, up to 62' AGL/171' MSL.

Rwy 36, trees beginning 1076' from DER, 94' right of centerline, up to 71' AGL/140' MSL.

TAMPA, FL

PETER O KNIGHT (TPF)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 7A 20JUN19 (19171) (FAA)

TAKEOFF MINIMUMS:

Rwys 4, 36, NA – Environmental

Rwy 18, 300-1½ or std. w/min. climb of 264' per NM to 300.

TAKEOFF OBSTACLE NOTES:

Rwy 18, sign 19' from DER, 104' right of centerline, 8' MSL.

Buildings, poles, vegetation, small boats beginning 35' from DER, 189' right of centerline, up to 32' AGL/37' MSL.

Sign 62' from DER, 161' left of centerline, 15' MSL.

Tree 103' from DER, 219' left of centerline, 28' MSL.

Small boats, sign, poles, vegetation beginning 251' from DER, 93' left of centerline, up to 30' AGL/30' MSL.

Tree 926' from DER, 334' left of centerline, 33' MSL.

Tree 1050' from DER, 293' left of centerline, 36' MSL.

Trees beginning 1695' from DER, 531' right of centerline, up to 52' MSL.

Tree 1792' from DER, 969' right of centerline, 62' MSL.

Rwy 22, fence 4' from DER, 460' right of centerline, 7' AGL/12' MSL.

Signs beginning 21' from DER, 120' left of centerline, up to 9' MSL.

Poles, vehicles on traverse way, small boats, trees beginning 104' from DER, 274' left of centerline, up to 26' AGL/32' MSL.

Trees, buildings beginning 288' from DER, 260' right of centerline, up to 37' MSL.

Tree 585' from DER, 379' right of centerline, 42' MSL.

Tree, pole beginning 628' from DER, 444' right of centerline, up to 48' MSL.

Tree, buildings beginning 646' from DER, 220' right of centerline, up to 52' MSL.

Trees, buildings, poles beginning 676' from DER, 211' right of centerline, up to 56' MSL.

Trees, buildings, poles beginning 854' from DER, 294' right of centerline, up to 76' MSL.

TAMPA EXECUTIVE (VDF)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 13JAN11 (11013) (FAA)

TAKEOFF MINIMUMS:

Rwy 18, std. w/ min. climb of 230' per NM to 900, or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 5, climb heading 046° to 500 before turning left.

Rwy 18, for climb in visual conditions cross Tampa Executive Airport at or above 800 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 5, trees beginning 1920' from DER, 45' right of centerline, up to 70' AGL/95' MSL.

Trees beginning 925' from DER, 343' left of centerline, up to 64' AGL/149' MSL.

Rwy 18, three light poles beginning 2894' from DER, 12' right of centerline, up to 149' AGL/149' MSL.

Trees beginning 193' from DER, 287' left of centerline, up to 60' AGL/91' MSL.

Three light poles beginning 2894' from DER, 5' right of centerline, up to 129' AGL/149' MSL.

Light on hanger 287' from DER, 336' left of centerline, 24' AGL/44' MSL.

Rwy 23, trees beginning at DER, 421' right of centerline, up to 58' AGL/73' MSL.

Obstruction light on navaid 611' from DER, 258' left of centerline, 23' AGL/37' MSL.

Windscoop 731' from DER, 258' right of centerline, 24' AGL/38' MSL.

Rwy 36, trees beginning 37' from DER, 329' right of centerline, up to 72' AGL/82' MSL.

Lighted tower 3260' from DER, 348' right of centerline, 105' AGL/122' MSL.

Trees beginning 1273' from DER, 158' left of centerline, up to 76' AGL/86' MSL.

Antenna 627' from DER, 629' left of centerline, 78' AGL/88' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

TAMPA, FL (CON’T)
TAMPA INTL (TPA)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 10  30APR15 (15120)  (FAA)
TAKEOFF MINIMUMS:
Rwy 19L, 200-1½ or std. w/min. climb of 220’ per NM to 300, or alternatively, with standard takeoff minimums and a normal 200’ per NM climb gradient, takeoff must occur no later than 1500’ prior to DER.
DEPARTURE PROCEDURE:
Rwy 10, climb heading 097° to 800 before turning right.
TAKEOFF OBSTACLE NOTES:
Rwy 1L, light 6’ from DER, 5’ left of centerline, 1’ AGL/22’ MSL.
Sign 51’ from DER, 39’ right of centerline, 4’ AGL/23’ MSL.
Trees beginning 625’ from DER, 661’ right of centerline, up to 57’ AGL/81’ MSL.
Trees beginning 1238’ from DER, 436’ left of centerline, up to 40’ AGL/60’ MSL.
Rwy 1R, trees beginning 100’ from DER, 499’ left of centerline, up to 37’ AGL/61’ MSL.
Rwy 10, sign 47’ from DER, 251’ right of centerline, 3’ AGL/28’ MSL.
Trees beginning 1325’ from DER left and right of centerline, up to 74’ AGL/96’ MSL.
Trees beginning 3091’ from DER, left and right of centerline, up to 91’ AGL/116’ MSL.
Rwy 19L, sign 47’ from DER, 274’ left of centerline, 3’ AGL/19’ MSL.
Multiple buildings 3237’ from DER, 1150’ left of centerline, up to 168’ AGL/176’ MSL.
Rwy 19R, sign 46’ from DER, 398’ left of centerline, 4’ AGL/12’ MSL.
Tree 488’ from DER, 578’ right of Centerline, 32’ AGL/37’ MSL.
Rwy 28, poles beginning 69’ from DER, 437’ left of centerline, up to 37’ AGL/61’ MSL.
Multiple buildings 3237’ from DER, left and right of centerline, up to 40’ AGL/71’ MSL.
Rwy 19L, sign 47’ from DER, 243’ right of centerline, 1’ AGL/25’ MSL.
Rwy 19R, tree 488’ from DER, 578’ right of Centerline, 32’ AGL/37’ MSL.

TITUSVILLE, FL
ARTHUR DUNN AIR PARK (X21)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2  31JAN19 (19031)  (FAA)
TAKEOFF MINIMUMS:
Rwys 4, 22 NA-Turf.
Rwy 15, 400-2½ or std. w/min. climb of 350’ per NM to 700.
TAKEOFF OBSTACLE NOTES:
Rwy 15, trees beginning 40’ from DER, left and right of centerline, up to 77’ AGL/111’ MSL.
Towers beginning 4975’ from DER, 132’ right of centerline, up to 399’ AGL/419’ MSL.
Buildings and poles beginning 170’ from DER, left and right of centerline, up to 40’ AGL/71’ MSL.
Rwy 33, signs, poles, and antennas beginning 7’ from DER, left and right of centerline, up to 56’ AGL/85’ MSL.
Trees beginning 128’ from DER, left and right of centerline, up to 60’ AGL/89’ MSL.
Vehicles beginning 414’ from DER, left and right of centerline, up to 15’ AGL/39’ MSL.

NASA SHUTTLE LANDING FACILITY (TTS)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1  29JUL10 (10210)  (FAA)
DEPARTURE PROCEDURE:
Rwy 15, climb heading 155° to 700 before turning Eastbound.
TAKEOFF OBSTACLE NOTES:
Rwy 15, trees beginning 2177’ from DER, across centerline, up to 100’ AGL/104’ MSL.
Rwy 33, trees beginning 445’ from DER, 482’ right of centerline, up to 100’ AGL/106’ MSL.
Trees beginning 1275’ from DER, 80’ left of centerline, up to 100’ AGL/106’ MSL.

SPACE COAST RGNL (TIX)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG  28JAN99 (99028)  (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 36, 60’ AGL trees 254’ from DER, 526’ right of centerline.

TYNDALL AFB (KPAM)
PANAMA CITY, FL
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG  20AUG15 (15232)  (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 14L, vehicle 124’ from DER, 533’ right of centerline, 10’ AGL/25’ MSL.
Terrain 0’ from DER, 500’ right of centerline, 15’ MSL.
Rwy 32L, building 188’ from DER, 519’ left of centerline, 11’ AGL/26’ MSL.
Rwy 32R, vehicle 15’ inward of DER, 472’ right of centerline, 10’ AGL/25’ MSL.
UMATILLA, FL
UMATILLA MUNI (X23)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 12DEC13 (13346) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 1, trees beginning abeam DER, 319' right of centerline, up to 57' AGL/191' MSL.
Trees beginning abeam DER, 240' left of centerline, up to 57' AGL/176' MSL.
Fence beginning abeam DER, 233' left of centerline, up to 6' AGL/120' MSL.
Fence beginning abeam DER, 196' right of centerline, up to 6' AGL/120' MSL.
Terrain 275' from DER, 495' right of centerline, up to 131' MSL.
Rwy 19, buildings beginning abeam DER, 258' right of centerline, up to 25' AGL/129' MSL.
Vehicles on roadway, beginning abeam DER, 172' left of centerline, up to 15' AGL/114' MSL.
Fence beginning abeam DER, 177' left of centerline, up to 6' AGL/105' MSL.
Trees beginning abeam DER, 361' left of centerline, up to 57' AGL/156' MSL.
Terrain 7' from DER, 417' right of centerline, 108' MSL.

VENICE, FL
VENICE MUNI (VNC)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 19SEP13 (13262) (FAA)
TAKEOFF MINIMUMS:
Rwy 23, 300-1½ or std. w/min. climb of 248' per NM to 300.
Rwy 31, 300-1½ or std. w/min. climb of 237' per NM to 300.
DEPARTURE PROCEDURE:
Rwy 5, climb heading 050° to 800 before turning right.
Rwy 31, climb heading 305° to 1500 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 5, bush 5' from DER, 307' right of centerline, 12' AGL/27' MSL.
Sign 50' from DER, 162' left of centerline, 2' AGL/19' MSL.
Tres beginning 293' from DER, 172' left of centerline, up to 52' AGL/67' MSL.
Poles and buildings beginning 1049' from DER, left and right of centerline, up to 65' AGL/67' MSL.
Trees beginning 459' from DER, 356' right of centerline, up to 49' AGL/59' MSL.
Rwy 23, trees beginning 8' from DER, 199' left of centerline, up to 42' AGL/47' MSL.
Trees beginning 22' from DER, 196' right of centerline, up to 33' AGL/38' MSL.
Pole 450' from DER, 594' left of centerline, 28' AGL/32' MSL.
Ships beginning 6052' from DER, left and right of centerline, up to 200' AGL/200' MSL.
Rwy 13, trees beginning 2' from DER, 225' left of centerline, up to 70' AGL/80' MSL.
Trees beginning 4' from DER, 279' right of centerline, up to 75' AGL/85' MSL.
Pole 747' from DER, 651' left of centerline, 33' AGL/51' MSL.
Rwy 31, trees beginning abeam DER, 253' left of centerline, up to 67' AGL/77' MSL.
Trees beginning 384' from DER, 627' left of centerline, up to 59' AGL/69' MSL.
Trees beginning 608' from DER, 257' right of centerline, up to 73' AGL/83' MSL.
Poles beginning 693' from DER, 262' left of centerline, up to 31' AGL/43' MSL.
Poles beginning 804' from DER, 475' right of centerline, up to 30' AGL/44' MSL.
Antennas/tower beginning 1015' from DER, 498' left of centerline, up to 52' AGL/63' MSL.
Ships beginning 6035' from DER, left and right of centerline, up to 200' AGL/200' MSL.

VERO BEACH, FL
VERO BEACH RGNL (VRB)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-B 17AUG17 (17229) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 4, multiple trees beginning 813' from DER, 178' left of centerline, up to 100' AGL/120' MSL.
Multiple trees beginning 3003' from DER, 93' right of centerline, up to 83' AGL/100' MSL.
Rwy 12L, pole 709' from DER, 522' left of centerline, 28' AGL/45' MSL.
Spire 1622' from DER, 574' right of centerline, 44' AGL/61' MSL.
Rwy 22, vehicles on road abeam DER, 421' left of centerline, up to 15' AGL/39' MSL.
Vehicles on road 408' from DER, left and right of centerline, up to 15' AGL/39' MSL.
Multiple trees beginning 1404' from DER, 272' left of centerline, up to 64' AGL/84' MSL.
Multiple trees beginning 1989' from DER, 126' right of centerline, up to 68' AGL/88' MSL.
Rwy 30L, multiple trees beginning 1206' from DER, 46' right of centerline, up to 100' AGL/120' MSL.
Multiple trees beginning 1575' from DER, 135' left of centerline, up to 61' AGL/81' MSL.
Rwy 30R, multiple antennas and trees beginning 1656' from DER, 111' right of centerline, up to 70' AGL/90' MSL.
Multiple trees beginning 1782' from DER, 247' left of centerline, up to 65' AGL/85' MSL.
WAUCHULA, FL
WAUCHULA MUNI (CHN)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 18JAN07 (07018) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 18, trees 450' from DER, 130' left of centerline, 22' AGL/126' MSL.
Tree 582' from DER, on centerline, 51' AGL/140' MSL.
Tree, 323' from DER, 490' left of centerline, 100' AGL/200' MSL.
Tree 39' from DER, 486' right of centerline, 100' AGL/185' MSL.

WEST PALM BEACH, FL
NORTH PALM BEACH COUNTY GENERAL AVIATION (F45)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 01FEB18 (18032) (FAA)
TAKEOFF MINIMUMS:
Rwy 9L, 27R NA-turf runway.
TAKEOFF OBSTACLE NOTES:
Rwy 9R, traverse way beginning 14' from DER, 308' left of centerline, up to 35' MSL.
Vegetation 54' from DER, 438' right of centerline, 24' MSL.
Tree 462' from DER, 591' left of centerline, 46' MSL.
Tree 582' from DER, 420' right of centerline, 40' MSL.
Trees beginning 734' from DER, 57' left of centerline, up to 57' MSL.
Tree 810' from DER, 419' right of centerline, 43' MSL.
Tree 926' from DER, 396' right of centerline, 48' MSL.
Trees beginning 944' from DER, 47' right of centerline, up to 55' MSL.
Trees beginning 1060' from DER, 203' right of centerline, up to 68' MSL.
Tree 1082' from DER, 277' left of centerline, 63' MSL.
Trees beginning 1128' from DER, 125' left of centerline, up to 70' MSL.
Tree 1619' from DER, 764' left of centerline, 79' MSL.
Tree 1767' from DER, 628' right of centerline, 70' MSL.
Trees beginning 1784' from DER, 358' right of centerline, up to 72' MSL.
Tree 1969' from DER, 870' right of centerline, 77' MSL.
Tree 2011' from DER, 391' right of centerline, 80' MSL.
Tree, pole beginning 2264' from DER, 442' left of centerline, up to 88' MSL.
Trees beginning 2488' from DER, 55' left of centerline, up to 95' MSL.
Rwy 14, trees beginning 0' from DER, 405' right of centerline, up to 53' MSL.
Trees beginning 89' from DER, 14' right of centerline, up to 54' MSL.
Tree 144' from DER, 266' left of centerline, 26' MSL.
Trees beginning 553' from DER, 257' left of centerline, up to 39' MSL.
Tree 607' from DER, 31' left of centerline, 40' MSL.
Tree 652' from DER, 672' left of centerline, 46' MSL.
Trees beginning 735' from DER, 30' left of centerline, up to 48' MSL.
Tree 1124' from DER, 285' left of centerline, 54' MSL.
Trees beginning 1157' from DER, 124' right of centerline, up to 60' MSL.
Trees beginning 1185' from DER, 4' right of centerline, up to 63' MSL.
Trees beginning 1299' from DER, 323' left of centerline, up to 68' MSL.
Tree 1656' from DER, 704' left of centerline, 75' MSL.
Tree 1758' from DER, 726' left of centerline, 91' MSL.
Rwy 27L, NAVAID 10' from DER, 99' left of centerline, 4' AGL/22' MSL.
Tree 43' from DER, 419' left of centerline, 23' MSL.
Traverse way 76' from DER, 438' right of centerline, 34' MSL.
Tree 985' from DER, 711' right of centerline, 49' MSL.
Tree 1448' from DER, 825' right of centerline, 55' MSL.
Tree 1454' from DER, 888' left of centerline, 65' MSL.
Trees beginning 1586' from DER, 874' left of centerline, up to 70' MSL.
Tree 2040' from DER, 906' left of centerline, 75' MSL.
Rwy 32, tree 91' from DER, 414' right of centerline, 57' MSL.
Trees beginning 103' from DER, 26' right of centerline, up to 67' MSL.
Trees beginning 807' from DER, 91' left of centerline, up to 59' MSL.
Trees beginning 1818' from DER, 121' left of centerline, up to 72' MSL.
Trees beginning 1820' from DER, 0' of centerline, up to 79' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

WEST PALM BEACH, FL (CON’T)
PALM BEACH COUNTY PARK (LNA)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 01FEB18 (18032) (FAA)
TAKEOFF MINIMUMS:
Rwys 10, 28, NA - noise abatement.

DEPARTURE PROCEDURE:
Rwy 22, climb heading 219° to 1100 before turning right.
Rwy 34, climb heading 339° to 700 before turning left.

TAKEOFF OBSTACLE NOTES:

Rwy 4, tree 39' from DER, 227' right of centerline, 23' MSL.
Trees beginning 78' from DER, 46' right of centerline, up to 44' MSL.
Tree 519' from DER, 573' left of centerline, 39' MSL.
Trees beginning 667' from DER, 38' left of centerline, up to 46' MSL.
Trees beginning 925' from DER, 106' left of centerline, up to 58' MSL.
Trees beginning 1260' from DER, 337' left of centerline, up to 59' MSL.
Pole 1284' from DER, 794' right of centerline, 42' AGL/49' MSL.
Tree 1376' from DER, 494' left of centerline, 71' MSL.
Tree 1639' from DER, 143' right of centerline, 57' MSL.
Tree 1732' from DER, 535' left of centerline, 87' MSL.
Tree 1804' from DER, 230' right of centerline, 64' MSL.
Tree 3083' from DER, 430' right of centerline, 100' MSL.
Tree 3214' from DER, 294' right of centerline, 102' MSL.

Rwy 16, buildings beginning 14' from DER, 233' right of centerline, up to 25' AGL/37' MSL.
Trees beginning 19' from DER, 353' left of centerline, up to 20' MSL.
Building, trees, pole beginning 111' from DER, 316' right of centerline, up to 34' AGL/45' MSL.
Trees beginning 158' from DER, 127' left of centerline, up to 21' MSL.
Poles beginning 678' from DER, 335' right of centerline, up to 35' AGL/47' MSL.
Poles, tree, building beginning 759' from DER, 56' right of centerline, up to 37' AGL/50' MSL.
Pole 957' from DER, 93' left of centerline, 26' AGL/40' MSL.
Pole 1079' from DER, 115' left of centerline, 27' AGL/42' MSL.
Poles beginning 1112' from DER, 337' left of centerline, up to 31' AGL/46' MSL.
Tree 1785' from DER, 388' left of centerline, 77' MSL.
Tree 1860' from DER, 186' right of centerline, 60' MSL.
Trees beginning 1891' from DER, 82' left of centerline, up to 91' MSL.

Rwy 22, tree 411' from DER, 607' left of centerline, 52' MSL.
Poles, vehicle on road, transmission lines, tree beginning 425' from DER, 103' left of centerline, up to 47' AGL/57' MSL.
Tree 806' from DER, 46' right of centerline, 33' MSL.
Tree 905' from DER, 230' left of centerline, 36' MSL.

Rwys 22, 34, tree beginning 23' from DER, 400' right of centerline, 21' MSL.
Trees beginning 37' from DER, 341' left of centerline, up to 26' MSL.
Trees beginning 359' from DER, 355' right of centerline, up to 39' MSL.

Rwys 10, 28, NA - noise abatement.

Trees beginning 470' from DER, 243' right of centerline, up to 45' MSL.
Trees beginning 486' from DER, 55' left of centerline, up to 43' MSL.
Trees beginning 637' from DER, 352' left of centerline, up to 46' MSL.
Trees beginning 758' from DER, 183' left of centerline, up to 49' MSL.
Tree 788' from DER, 485' right of centerline, 52' MSL.
Trees beginning 796' from DER, 298' right of centerline, up to 59' MSL.
Trees, pole beginning 888' from DER, 87' left of centerline, up to 51' MSL.
Tree 1013' from DER, 133' left of centerline, 53' MSL.
Trees beginning 1100' from DER, 67' left of centerline, up to 58' MSL.
Tree, poles beginning 1133' from DER, 204' right of centerline, up to 59' MSL.
Trees beginning 1412' from DER, 32' left of centerline, up to 69' MSL.

TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

10 SEP 2020 to 08 OCT 2020
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

WEST PALM BEACH, FL (CON’T)
PALM BEACH INTL (PBI)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 17DEC09 (09351) (FAA)
DEPARTURE PROCEDURE:
Rwy 28L, climb heading 279° to 1200 before turning left.
Rwy 28R, climb heading 279° to 1200 before turning left.

TAKEOFF OBSTACLE NOTES:
Rwy 10R, antenna on hanger 177' from DER, 38' AGL/57' MSL.
Rwy 10L, light pole 1461' from DER, 843' right of centerline, 45' AGL/64' MSL.
Rwy 14, transmission line tower, traffic signal, poles, and trees beginning 649' from DER, 24' left of centerline, up to 71' AGL/90' MSL.
Vehicles on road, light poles, and trees beginning 168' from DER, 76' right of centerline, up to 87' AGL/106' MSL.
Rwy 28R, light pole and trees beginning 1205' from DER, 323 ' left of centerline, up to 63' AGL/82' MSL.
Sign, light pole, and trees beginning 1233' from DER, 155' right of centerline, up to 44' AGL/63' MSL.
Rwy 32, trees beginning 1993' from DER, 444' left of centerline, up to 69' AGL/88' MSL.
Trees beginning 1108' from DER, 548' right of centerline, up to 70' AGL/89' MSL.

WHITING FLD NAS-NORTH (KNSE)
MILTON, FL
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
10SEP20 (20254)
TAKEOFF OBSTACLE NOTES:
Rwy 5, trees 1816' from DER, 386' right of cntrln, 230' MSL.
Trees 2054' from DER, 646' left of cntrln, 248' MSL.
Trees 2158' from DER, 525' left of cntrln, 256' MSL.
Trees 2257' from DER, 84' left of cntrln, 246' MSL.
Trees 2281' from DER, 376' left of cntrln, 252' MSL.
Rwy 14, terrain 0' from DER, 500' right of cntrln, 161' MSL.
Trees 2372' from DER 692' right of cntrln, 241' MSL.
Trees 2426' from DER, 559' right of cntrln, 222' MSL.
Trees 2430' from DER, 782' right of cntrln, 246' MSL.
Rwy 23, terrain 0' from DER, 500' left of cntrln, 170' MSL.
Terrain 0' from DER, 500' left of cntrln, 202' MSL.
Trees 1501' from DER, 770' left of cntrln, 255' MSL.
Rwy 32, trees 1443' from DER, 531' right of cntrln, 254' MSL.
Trees 1480' from DER, 791' right of cntrln, 254' MSL.
Trees 1492' from DER, 479' left of cntrln, 259' MSL.

WHITING FLD NAS-SOUTH (KNDZ)
MILTON, FL
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
10SEP20 (20254)
TAKEOFF OBSTACLE NOTES:
Rwy 5, trees 511' from DER, 491' right of cntrln, 209' MSL.
Trees 741' from DER, 498' right of cntrln, 235' MSL.
Rwy 14, trees 654' from DER, 493' right of cntrln, 200' MSL.
Trees 1182' from DER, 493' right of cntrln, 200' MSL.
Trees 1546' from DER, 502' left of cntrln, 250' MSL.
Rwy 23, trees 0' from DER, 500' right of cntrln, 168' MSL.
Trees 841' from DER, 370' left of cntrln, 192' MSL.
Trees 1171' from DER, 462' right of cntrln, 192' MSL.
Trees 1173' from DER, 127' right of cntrln, 198' MSL.
Rwy 32, terrain 0' from DER, 500' right of cntrln, 191' MSL.
Terrain 442' from DER, 612' right of cntrln, 200' MSL.
Twr 605' from DER, 457' right of cntrln, 213' MSL.
Trees 752' from DER, 621' right of cntrln, 221' MSL.
Trees 1229' from DER, 512' right of cntrln, 212' MSL.
Trees 1336' from DER, 564' left of cntrln, 206' MSL.
Trees 1546' from DER, 429' right of cntrln, 217' MSL.
Trees 1576' from DER, 535' right of cntrln, 230' MSL.
Trees 1618' from DER, 295' left of cntrln, 224' MSL.
Sign 2000' from DER, 271' right of cntrln, 12' AGL/219' MSL.
Trees 2125' from DER, 73' right of cntrln, 242' MSL.
Twr 2438' from DER, 1172' right of cntrln, 62' AGL/234' MSL.
Twr 2729' from DER, 1156' right of cntrln, 62' AGL/246' MSL.
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

WILLISTON, FL
WILLISTON MUNI (X60)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2A 19JUL18 (18200) (FAA)

TAKEOFF MINIMUMS:
Rwy 5, 400-2½ or std. w/min. climb of 257’ per NM to 600.
Rwy 14, 300-2 or std. w/min. climb of 205’ per NM to 500.

DEPARTURE PROCEDURE:
Rwy 5, climb heading 049° to 500 before proceeding on course.
Rwy 14, climb heading 142° to 600 before proceeding on course.
Rwy 23, climb on a heading between 253° CW 048° from DER, or min. climb of 249’ per NM to 1900 for all other courses.

TAKEOFF OBSTACLE NOTES:

Rwy 5, trees beginning 22’ from DER, 355’ left of centerline, up to 130’ MSL.
Trees beginning 35’ from DER, 300’ right of centerline, up to 120’ MSL.
Trees beginning 138’ from DER, 355’ left of centerline, up to 134’ MSL.
Trees beginning 346’ from DER, 238’ left of centerline, up to 146’ MSL.
Trees beginning 384’ from DER, 285’ right of centerline, up to 134’ MSL.
Trees beginning 531’ from DER, 187’ left of centerline, up to 148’ MSL.
Trees beginning 535’ from DER, 46’ right of centerline, up to 144’ MSL.
Trees beginning 666’ from DER, 54’ left of centerline, up to 150’ MSL.
Trees beginning 841’ from DER, 8’ left of centerline, up to 155’ MSL.
Trees beginning 1439’ from DER, 93’ right of centerline, up to 146’ MSL.
Trees beginning 1570’ from DER, 16’ left of centerline, up to 158’ MSL.
Trees beginning 1673’ from DER, 7’ right of centerline, up to 152’ MSL.
Trees beginning 2641’ from DER, 822’ left of centerline, up to 166’ MSL.
Trees beginning 2831’ from DER, 896’ left of centerline, up to 171’ MSL.
Antenna 1.9 NM from DER, 2380’ left of centerline, 300’ AGL/376’ MSL.
Tower 1.9 NM from DER, 2346’ left of centerline, 324’ AGL/448’ MSL.

Rwy 14, trees beginning 52’ from DER, 448’ right of centerline, up to 95’ MSL.
Tree 58’ from DER, 428’ left of centerline, 98’ MSL.
Trees beginning 58’ from DER, 283’ left of centerline, up to 102’ MSL.
Trees beginning 632’ from DER, 636’ left of centerline, 103’ MSL.
Trees beginning 730’ from DER, 468’ left of centerline, up to 125’ MSL.
Trees beginning 896’ from DER, 490’ left of centerline, up to 129’ MSL.
Trees beginning 1102’ from DER, 221’ right of centerline, up to 131’ MSL.
Trees beginning 1244’ from DER, 344’ left of centerline, up to 133’ MSL.
Trees beginning 1613’ from DER, 258’ left of centerline, up to 137’ MSL.
Tree 1689’ from DER, 730’ left of centerline, 138’ MSL.
Tree 1703’ from DER, 657’ left of centerline, 140’ MSL.
Trees beginning 1706’ from DER, 42’ left of centerline, up to 142’ MSL.
Tower 1.7 NM from DER, 1090’ right of centerline, 260’ AGL/326’ MSL.

Rwy 23, vegetation 99’ from DER, 169’ left of centerline, 78’ MSL.
Vegetation 489’ from DER, 562’ right of centerline, 86’ MSL.
Tree 535’ from DER, 355’ left of centerline, 111’ MSL.
Trees beginning 551’ from DER, 227’ left of centerline, up to 112’ MSL.
Trees beginning 565’ from DER, 239’ right of centerline, up to 98’ MSL.
Tree 739’ from DER, 334’ right of centerline, 101’ MSL.
Tree 753’ from DER, 569’ right of centerline, 109’ MSL.
Trees beginning 760’ from DER, 535’ left of centerline, up to 134’ MSL.
Trees beginning 788’ from DER, 300’ left of centerline, up to 139’ MSL.
Tree 803’ from DER, 471’ right of centerline, 116’ MSL.
Trees beginning 805’ from DER, 264’ right of centerline, up to 121’ MSL.
Trees beginning 839’ from DER, 305’ right of centerline, up to 123’ MSL.
Trees beginning 952’ from DER, 257’ right of centerline, up to 126’ MSL.
Trees beginning 1020’ from DER, 416’ right of centerline, up to 135’ MSL.
Trees beginning 1086’ from DER, 169’ right of centerline, up to 139’ MSL.
Trees beginning 1300’ from DER, 48’ right of centerline, up to 142’ MSL.
Trees beginning 1329’ from DER, 19’ left of centerline, up to 145’ MSL.
Trees beginning 1433’ from DER, 243’ right of centerline, up to 143’ MSL.
Trees beginning 1503’ from DER, 429’ right of centerline, up to 147’ MSL.
Trees beginning 1601’ from DER, 20’ right of centerline, up to 149’ MSL.
Tree 2453’ from DER, 1135’ right of centerline, 151’ MSL.
Trees beginning 2456’ from DER, 73’ right of centerline, up to 160’ MSL.
Trees beginning 2527’ from DER, 418’ right of centerline, up to 178’ MSL.

Rwy 32, vegetation 23’ from DER, 314’ left of centerline, 87’ MSL.
Vegetation 43’ from DER, 486’ left of centerline, 88’ MSL.
Vegetation, tree beginning 55’ from DER, 247’ left of centerline, up to 100’ MSL.
Vegetation 63’ from DER, 375’ right of centerline, 72’ MSL.
Tree 214’ from DER, 550’ right of centerline, 85’ MSL.
Trees beginning 424’ from DER, 381’ right of centerline, up to 97’ MSL.
Trees beginning 586’ from DER, 462’ right of centerline, up to 144’ MSL.
Trees beginning 762’ from DER, 441’ right of centerline, up to 155’ MSL.
Tree 883’ from DER, 530’ right of centerline, 161’ MSL.
Trees beginning 892’ from DER, 10’ right of centerline, up to 169’ MSL.

CONT
TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

WILLISTON, FL (CON’T)

WILLISTON MUNI (X60) (CON’T)

**Rwy 32 (CON’T)**, trees beginning 1165’ from DER, 741’ left of centerline, up to 137’ MSL.

- Tree 1357’ from DER, 589’ left of centerline, 139’ MSL.
- Trees beginning 1438’ from DER, 338’ left of centerline, up to 162’ MSL.
- Tree 1674’ from DER, 781’ left of centerline, 170’ MSL.
- Trees beginning 1680’ from DER, 13’ left of centerline, up to 172’ MSL.

WINTER HAVEN, FL

WINTER HAVEN RGNL (GIF)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 28FEB19 (19059) (FAA)

**TAKEOFF MINIMUMS:**

- Rwy 23, 300-1 ¼ or std. w/min. climb of 325’ per NM to 500.
- Rwy 29, 400-2 ½ or std. w/min. climb of 250’ per NM to 700.

**TAKEOFF OBSTACLE NOTES:**

- Rwy 5, tree, vehicle on traverse way beginning 55’ from DER, 340’ left of centerline, up to 175’ MSL.
- Tree 207’ from DER, 465’ right of centerline, 155’ MSL.
- Trees beginning 300’ from DER, 75’ left of centerline, up to 196’ MSL.
- Trees beginning 2091’ from DER, 451’ left of centerline, up to 200’ MSL.

- Rwy 11, trees beginning 73’ from DER, 361’ left of centerline, up to 184’ MSL.
- Vehicle on traverse way 215’ from DER, 277’ right of centerline, 155’ MSL.
- Trees beginning 278’ from DER, 330’ left of centerline, up to 186’ MSL.
- Tree 445’ from DER, 406’ right of centerline, 187’ MSL.
- Tree 459’ from DER, 489’ right of centerline, 195’ MSL.
- Trees beginning 461’ from DER, 596’ left of centerline, up to 187’ MSL.
- Trees beginning 545’ from DER, 363’ right of centerline, up to 203’ MSL.

- Rwy 23, tree 176’ from DER, 372’ left of centerline, 177’ MSL.
- Tree 409’ from DER, 358’ left of centerline, 182’ MSL.
- Trees beginning 978’ from DER, 335’ left of centerline, up to 220’ MSL.
- Trees beginning 1153’ from DER, 563’ left of centerline, up to 221’ MSL.
- Tower 1 NM from DER, 972’ left of centerline, 176’ AGL/328’ MSL.
- Tower 1.2 NM from DER, 1316’ right of centerline, 199’ AGL/353’ MSL.

- Rwy 29, building 20’ from DER, 500’ left of centerline, 20’ AGL/158’ MSL.
- Trees beginning 75’ from DER, 302’ left of centerline, up to 187’ MSL.
- Tree 182’ from DER, 284’ right of centerline, 181’ MSL.
- Trees beginning 217’ from DER, 307’ right of centerline, up to 184’ MSL.
- Tower 1.9 NM from DER, 2510’ left of centerline, 310’ AGL/457’ MSL.

ZEPHYRHILLS, FL

ZEPHYRHILLS MUNI (ZPH)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 18SEP14 (14261) (FAA)

**TAKEOFF OBSTACLE NOTES:**

- Rwy 1, trees beginning 836’ from DER, 160’ right of centerline, up to 77’ AGL/157’ MSL.
- Trees beginning 374’ from DER, 586’ left of centerline, up to 55’ AGL/136’ MSL.
- Trees beginning 1332’ from DER, 7’ left of centerline, up to 87’ AGL/167’ MSL.

- Rwy 5, trees beginning 1087’ from DER, 101’ left of centerline, up to 65’ AGL/141’ MSL.
- Trees beginning 455’ from DER, 432’ right of centerline, up to 53’ AGL/125’ MSL.
- Trees beginning 1030’ from DER, 19’ right of centerline, up to 77’ AGL/151’ MSL.
- Fence 77’ from DER, 464’ left of centerline, 6’ AGL/90’ MSL.
- Trees beginning 196’ from DER, 339’ left of centerline, up to 74’ AGL/158’ MSL.
- Trees beginning 1345’ from DER, 188’ left of centerline, up to 89’ AGL/168’ MSL.
- Tree 35’ from DER, 423’ right of centerline, 44’ AGL/129’ MSL.
- Trees beginning 266’ from DER, 127’ right of centerline, up to 72’ AGL/151’ MSL.
- Rwy 23, trees and poles beginning 1069’ from DER, 75’ left of centerline, up to 52’ AGL/142’ MSL.
- Trees beginning 478’ from DER, 23’ right of centerline, up to 78’ AGL/168’ MSL.
ARRIVAL ROUTE DESCRIPTION

MELBOURNE TRANSITION (MLB.ANNEY4): From over MLB VOR/DME on MLB R-170 to TRV VORTAC, then on TRV R-167 to PHORD, then on PBI R-343 to PBI VORTAC, then on PBI R-174 to ANNEY. Thence . . . .

ORMOND BEACH TRANSITION (OMN.ANNEY4): From over OMN VORTAC on OMN R-161 to MLB VORTAC, then on MLB R-170 to TRV VORTAC, then on TRV R-167 to PHORD, then on PBI R-343 to PBI VORTAC, then on PBI R-174 to ANNEY. Thence . . . .

SNSBK TRANSITION (SNSBK.ANNEY4): From over SNSBK on ZFP R-269 to ANNEY. Thence . . . .

TREASURE TRANSITION (TRV.ANNEY4): From over TRV VORTAC on TRV R-167 to PHORD, then on PBI R-343 to PBI VORTAC, then on PBI R-174 to ANNEY. Thence . . . .

. . . . From over ANNEY on PBI R-174 to HILEY/PBI 26 DME, then on VKZ R-018 to KAINS/VKZ 13 DME, then on VKZ R-018 to VKZ VOR/DME. Expect RADAR vectors to final approach course after KAINS.
NOTE: RADAR required.
NOTE: RNAV I.
NOTE: DME/DME/IRU or GPS required.

Turbojets landing KMIA: Expect
Landing East: 10000 and 250K
Landing West: 14000 and 280K
Turbojets landing KFLL, KFXE, KPMP:
Expect 11000 and 250K
Turbojets landing KO7FA, KHST, KX51:
Expect 10000 and 250K, all others: Expect 6000
Turbojets landing KOPF: Expect 10000

NOTE: MARATHON TRANSITION:
ATC assigned only.

NOTE: Chart not to scale.
ARRIVAL ROUTE DESCRIPTION

KMIA: From DVALL on track 069° to CURSO, then on track 072° to MNNDY.

KMIA Landing East Rwy 08R/L, 09, 12: From MNNDY on track 053° to JODPO, then on track 053° to BEETR, then on heading 053°. Expect RADAR vectors to final approach course.

KMIA Landing West Rwy 26R/L, 27, 28: From MNNDY on track 053° to JODPO, then on track 092° to LECIT, then on heading 124°. Expect RADAR vectors to final approach course.

Landing K07FA: From DVALL on track 069° to CURSO, then on track 072° to MNNDY, then on track 123° to K07FA, then on heading 123°. Expect RADAR vectors to final approach course.

Landing KFLL: From DVALL on track 069° to CURSO, then on track 072° to MNNDY, then on track 011° to JAREM, then on track 098° to HOLID, then on heading 092°. Expect RADAR vectors to final approach course.

Landing KFXE: From DVALL on track 069° to CURSO, then on track 072° to MNNDY, then on track 011° to JAREM, then on track 080° to ENVER, then on heading 085°. Expect RADAR vectors to final approach course.

Landing KHST: From DVALL on track 069° to CURSO, then on track 072° to MNNDY, then on track 150° to GULPE, then on heading 051°. Expect RADAR vectors to final approach course.

Landing KHW0: From DVALL on track 069° to CURSO, then on track 072° to MNNDY, then on track 053° to JODPO, then on track 038° to FRRDY, then on heading 093°. Expect RADAR vectors to final approach course.

Landing KOPF: From DVALL on track 069° to CURSO, then on track 072° to MNNDY, then on track 053° to JODPO, then on track 048° to EPENY, then on heading 088°. Expect RADAR vectors to final approach course.

Landing KPMP: From DVALL on track 069° to CURSO, then on track 072° to MNNDY, then on track 011° to JAREM, then on track 055° to ATONE, then on heading 076°. Expect RADAR vectors to final approach course.

Landing KTMB: From DVALL on track 069° to CURSO, then on track 072° to MNNDY, then on track 080° to HAXAM, then on heading 090°. Expect RADAR vectors to final approach course.

Landing KX51: From DVALL on track 069° to CURSO, then on track 072° to MNNDY, then on track 116° to KX51, then on heading 116°. Expect RADAR vectors to final approach course.

LOST COMMUNICATIONS

KMIA Landing East: Track to JODPO, then proceed direct to GRITT, intercept Rwy 09 final approach course, conduct approach.

KMIA Landing West: Track to LECIT, then proceed direct VICLB, turn left to intercept Rwy 30 final approach course, conduct approach.

Group 6 aircraft, track to LECIT, then proceed direct IBISS, turn left to intercept Rwy 27 final approach course, conduct approach.
LEE COUNTY TRANSITION (RSW.CYY1): From over RSW VOR/DME on RSW R-182 to CYY VOR/DME. Thence.

ST PETERSBURG TRANSITION (PIE.CYY1): From over PIE VOR/DME on PIE R-160 and CYY R-338 to CYY VOR/DME. Thence.

SARASOTA TRANSITION (SRQ.CYY1): From over SRQ VOR/DME on SRQ R-155 and CYY R-334 to CYY VOR/DME. Thence.

... From over CYY VOR/DME on CYY R-113 to WORPP, then on DHP R-284 to DHP VORTAC. Expect RADAR vectors to final approach course.

NOTE: RADAR required.
NOTE: Aircraft landing KOPF: CYPRESS available to turbojet aircraft only.

NOTE: Chart not to scale.
**KEY WEST TRANSITION (EYW-DVALL3):** From over EYW VORTAC on EYW R-037 to DVALL INT. Thence. . . .

**MARATHON TRANSITION (MTH-DVALL3):** From over MTH NDB on bearing 009° to DVALL INT. Thence. . . .

. . . .From over DVALL INT via DHP R-248 to DHP VORTAC. Expect RADAR vectors to final approach course after FAMIN INT.
ARIVAL ROUTE DESCRIPTION

FREEPORT TRANSITION (ZFP.FLIPR7)
NASSAU TRANSITION (ZQA.FLIPR7)

... From FOWEE on track 318° to FLIPR, then on track 311° to LUVLY, then on track 291° to LECIT, then on track 272° to JODPO, then on heading 272° or as assigned by ATC. Expect RADAR vectors to final approach course.

LOST COMMUNICATIONS.
KMIA Landing 8L/R, 9, 12: Continue track to JODPO, then turn right to intercept the Rwy 9 final approach course, conduct approach.
KMIA Landing 26L/R, 27, 30: Continue track to FLIPR, proceed direct to ZUMGO, then intercept the Rwy 30 final approach course, conduct approach.
Group 6 Aircraft: Continue track to FLIPR, proceed direct to HENDN then intercept the Rwy 27 final approach course, conduct approach.

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet and turboprop aircraft only.
NOTE: KMIA Primary Landing Rwy 9, 30.
NOTE: For non-GPS equipped aircraft: VKZ and ZBV DME's must be operational.
NOTE: ZFP TRANSITION: For non-GPS equipped aircraft: VKZ, ZBV, and ZFP DME's must be operational.
NOTE: ZFP TRANSITION: ATC assigned only.
ARRIVAL ROUTE DESCRIPTION

FREEPORT TRANSITION (ZFP.FOWEE9): From over ZFP VOR/DME on ZFP R-180 to LUCSS, then on ZQA R-273 to FOWEE. Thence . . . .

HODGY TRANSITION (HODGY.FOWEE9): From over HODGY on ZBV R-135 to TINKY, then on ZQA R-273 to FOWEE. Thence . . . .

NASSAU TRANSITION (ZQA.FOWEE9): From over ZQA VOR/DME on ZQA R-273 to FOWEE. Thence . . . .

URSUS TRANSITION (URSUS.FOWEE9): From over URSUS on ZBV R-177 to FOWEE. Thence . . . .

. . . . From over FOWEE via VKZ R-137 to JUNUR, then via DHP R-130 to DHP VORTAC. Expect RADAR vectors to final approach course after LUVLY.
NOTE: Chart not to scale.

Runways: 8L, 12, 26R.

NOTE: Primary Landing aircraft only.

NOTE: Turbojet and Turboprop or GPS Required.

NOTE: DME/DME/IRU or RNAV 1.

NOTE: RADAR required.

NOTE: MIA 1.

NOTE: SE-3, 10 SEP 2020 to 08 OCT 2020

AVIATION"
ARRIVAL ROUTE DESCRIPTION

FREEPORT TRANSITION (ZFP.HILEY7)
JORAY TRANSITION (JORAY.HILEY7)
ORMOND BEACH TRANSITION (OMN.HILEY7)

From HILEY on track 199° to KAINS, then on track 243° to CIMBA, then on track 255° to JESSS, then on track 271° to RUBOE, then on heading 271° or as assigned by ATC. Expect RADAR vectors.

LOST COMMUNICATIONS

KMIA Landing East: Continue track to RUBOE WP, then turn left to intercept Rwy 8L final approach course, conduct approach.
Group 6 aircraft, continue track to RUBOE WP, then turn left to intercept Rwy 8R final approach course, conduct approach.
KMIA Landing West: Continue track to HILEY WP, proceed direct to HOXIL WP, then turn right to intercept Rwy 26R final approach course, conduct approach.
Group 6 aircraft, continue track to HILEY WP, proceed direct to HOXIL WP, then turn right to intercept Rwy 26L final approach course, conduct approach.
ARRIVAL ROUTE DESCRIPTION

BAGGS TRANSITION (BAGGS.SSCOT5)
JUULI TRANSITION (JUULI.SSCOT5)

LANDING ALL AIRPORTS:  From BAARY on track 141° to CYY VOR/DME, then on track 115° to DEEDS, then on track 115° to SSCOT, then on track 116° to RUBOE, then on track 091° to WALIP, then on track 126° to LECIT, then on heading 126° or as assigned by ATC. Expect RADAR vectors to final approach course.

LOST COMMUNICATIONS:
MIA LANDING EAST: Continue track to LECIT, intercept the runway 8L final approach course, conduct approach. Group 6 aircraft, continue track to LECIT, intercept the runway 8R final approach course, conduct approach.
MIA LANDING WEST: Continue track to LECIT, then proceed direct to JUNUR, then turn left to intercept the runway 30 final approach course, conduct approach. Group 6 aircraft, continue track to LECIT, then proceed direct to IBISS, then turn left to intercept the runway 27 final approach course, conduct approach.

NOTE:
- Radar required.
- RNAV 1.
- DME/DME/IRU or GPS required.
- Turboprop aircraft only.
- MIA landing east: expect to cross SSCOT at 10000 and 250K.
- MIA landing west: expect to cross SSCOT at 16000 and 280K.
- MIA landing runways 8L/R, 26L/R: expect RADAR vectors prior to WALIP.
- MIA landing runways 9, 12 and landing all satellite airports: expect RADAR vectors to WALIP.
- MIA landing runway 27: expect RADAR vectors to LECIT.
- Landing OPF:Turboprop aircraft only.
- For non-GPS equipped aircraft, PHK DME must be operational.

NOTE: Chart not to scale.
MELBOURNE TRANSITION (MLB.BLUFI4): From over MLB VOR/DME on MLB R-135 to LEBUR INT/MLB 46 DME, then on PBI R-010 to TOPPR INT/PBI 30 DME, then on TRV R-150 to BLUFI INT. Thence . . .

. . . from over BLUFI INT/VKZ 71 DME on VKZ R-018 to HEATT INT/VKZ 46 DME, then on VKZ R-018 to KAINS INT, then on VKZ R-018 to VKZ VOR/DME. Expect RADAR vectors to final approach course after KAINS INT.

NOTE: MELBOURNE TRANSITION available to MIA/HST/X51/07FA/TMB arrivals only when MIA is landing west.

NOTE: RADAR required.

NOTE: Turboprops only.