



INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKE-OFF 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 take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned another DP or radar vector by ATC, this procedure may be flown to ensure obstacle clearance.

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: FAR 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

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

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NAME TAKE-OFF MINIMUMS

BOCA RATON, FL

BOCA RATON

TAKE-OFF 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 departure end of runway.

NOTE: Rwy 5, numerous trees and poles beginning 185' from departure end of runway, 20' left of centerline, up to 35' AGL/49' MSL. Numerous trees and poles beginning 6' from departure end of runway, 267' right of centerline, up to 28' AGL/45' MSL. Rwy 23, numerous trees, poles, and buildings beginning 278' from departure end of runway, 41' left of centerline, up to 137' AGL/154' MSL. Numerous trees, poles and buildings beginning 626' from departure end of runway, 171' right of centerline, up to 154' AGL/171' MSL.

BONIFAY, FL

TRI COUNTY

DEPARTURE PROCEDURE: Rwys 1, 19, climb runway heading to 2000 before turning west.

BUNNELL, FL

FLAGLER COUNTY

DEPARTURE PROCEDURE: Rwy 29, aircraft departing on a course between 270° clockwise to 360° climb on heading 270° to 1300 before proceeding on course.

NAME TAKE-OFF MINIMUMS

CAPE CANAVERAL AFS SKID STRIP (KXMR)

COCOA BEACH, FL 07046

DEPARTURE PROCEDURES: Rwy 13, diverse departure authorized. Cross DER at or above 20' AGL/29' MSL for Take Off Minima Standard with Climb Gradient 200 ft/NM. Rwy 31, diverse departure authorized 322° CCW to 143° only. TAKE-OFF OBSTACLES: Rwy 13, numerous trees 500' left and right of centerline beginning from DER and numerous trees left and right of centerline beginning 1100' from DER, up to 80' AGL/100' MSL. Rwy 31, light pole 1795' from DER, 498' left of centerline, 35' AGL/67' MSL. Trees 2042' from DER, 162' right of centerline, 45' AGL/72' MSL. Brush 500' from DER, 300' right of centerline, 18' AGL/48' MSL. Brush 144' from DER, 500' left of centerline, 8' AGL/38' MSL. Pylon 4347' from DER, 700' right of centerline, 61' AGL/135' MSL. Pylon 4534' from DER, 1069' right of centerline, 78' AGL/150' MSL. Terrain 101' to 500' left of DER, 17' MSL. Terrain 185' from DER, 138' to 585' right of centerline, 18' MSL. Trees 1031' from DER, 114' left of centerline, 45' AGL/70' MSL. Trees 3864' from DER, 393' left of centerline, 80' AGL/120' MSL. Trees 3760' from DER, 490' right of centerline, 80' AGL/120' MSL.





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CHARLOTTE AMALIE, ST. THOMAS, VI

CYRIL E. KING

TAKE-OFF MINIMUMS: **Rwy 28**, 700-2 or std. with a min. climb of 250' per NM to 700. **Rwy 10**, 1100-3 or 400-1 with a min. climb of 400' per NM to 1200.

DEPARTURE PROCEDURE: **Rwy 10**, climbing right turn heading 120° to 2000 before turning north. **Rwy 28**, climb runway heading to 2000 before turning north.

CHRISTIANSTED, ST. CROIX, VI

HENRY E. ROHLSEN

TAKE-OFF MINIMUMS: **Rwy 10**, 300-1½ or std. w/a min. climb of 300' per NM to 300.

DEPARTURE PROCEDURE: **Rwy 10**, climb via heading 103° to 1300 before proceeding on course. **Rwy 28**, climb via heading 280° to 1100 before proceeding on course.

NOTE: **Rwy 10**, pole and bushes beginning 103' from departure end of runway, 283' right of centerline, up to 30' AGL/44' MSL. Bushes, trees, pole, elevator, strobe on elevator, obstruction light on stack, building, and refinery beginning 127' from departure end of runway, 324' left of centerline, up to 203' AGL/231' MSL. **Rwy 28**, tree 517' from departure end of runway, 553' right of centerline, 54' AGL/114' MSL. Tower 1499' from departure end of runway, 802' right of centerline, 50' AGL/140' MSL.

DAYTONA BEACH, FL

DAYTONA BEACH INTL

TAKE-OFF MINIMUMS: **Rwys 7R, 16, 25L, 34**, 300-1, use ROYES GRAPHIC DEPARTURE.

NOTE: **Rwy 7R**, 103' AGL, 135' MSL tower 1852' from departure end of runway, 411' right of centerline.

Rwy 16, trees to 81' AGL/113' MSL left and right of departure end of runway. **Rwy 25L**, trees to 74' AGL/102' MSL left and right of departure end of runway.

Rwy 34, trees to 79' AGL/110' MSL left and right of departure end of runway.

DELAND, FL

DELAND MUNI/SIDNEY H. TAYLOR FIELD

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 23**, climb via heading 234° to 1800 before proceeding on course. **Rwy 30**, climb via heading 302° to 1800 before proceeding on course.

NOTE: **Rwy 5**, numerous trees beginning 64' from departure end of runway, 245' left of centerline, up to 100' AGL/143' MSL. Numerous trees beginning 869' from departure end of runway, 410' right of centerline, up to 100' AGL/154' MSL. **Rwy 12**, numerous trees beginning 154' from departure end of runway, 129' left of centerline, up to 100' AGL/153' MSL. Numerous trees beginning 456' from departure end of runway, 289' right of centerline, up to 100' AGL/162' MSL. **Rwy 30**, numerous trees beginning 624' from departure end of runway, 9' left of centerline, up to 100' AGL/156' MSL. Numerous trees beginning 159' from departure end of runway, 341' right of centerline, up to 100' AGL/162' MSL. **Rwy 23**, light pole and numerous trees beginning 381' from departure end of runway, 44' right of centerline, up to 100' AGL/132' MSL. Pole, building, vent on building, hangar, and trees beginning 164' from departure end of runway, 26' left of centerline, up to 100' AGL/129' MSL.

DESTIN, FL

DESTIN-FORT WALTON BEACH

DEPARTURE PROCEDURE: **Rwy 14**, climb runway heading to 400 before making turn.

FORT LAUDERDALE, FL

FORT LAUDERDALE-EXECUTIVE

DEPARTURE PROCEDURE: **Rwy 26**, climb runway heading to 600 before turning left.

NOTE: **Rwy 26**, 116' MSL (100' AGL) tree 2150' from departure end of runway, 1050' left of centerline. **Rwy 31**, 81' MSL (70' AGL) tree 700' from departure end of runway, 530' right of centerline.

FORT LAUDERDALE-HOLLYWOOD INTL

DEPARTURE PROCEDURE: **Rwy 9L**, climb heading 093° to 500 before turning left. **Rwy 13**, climb heading 138° to 800 before turning right. **Rwy 27L**, climb heading 273° to 600 before turning left. **Rwy 27R**, climb heading 273° to 500 before turning left.

NOTE: **Rwy 9L**, railroad, light pole, and antenna on building beginning 469' from departure end of runway, 379' left of centerline, up to 43' AGL/47' MSL. Light pole 1332' from departure end of runway, 634' right of centerline, 42' AGL/46' MSL. Tree 1977' from departure end of runway, 272' right of centerline, 55' AGL/59' MSL.

Rwy 9R, light pole 545' from departure end of runway, 335' left of centerline, 27' AGL/41' MSL. Tree 783' from departure end of runway, 396' left of centerline, 30' AGL/44' MSL. Antenna on building, fence, light pole, and multiple trees beginning 254' from departure end of runway, 133' right of centerline, up to 56' AGL/70' MSL.

Rwy 13, multiple trees beginning 844' from departure end of runway, 206' left of centerline, up to 76' AGL/80' MSL. Antenna on building 534' from departure end of runway, 431' left of centerline, 11' AGL/20' MSL. Pole 910' from departure end of runway, on centerline, 30' AGL/39' MSL. Railroad crossing arm 1104' from departure end of runway, 14' right of centerline, 42' AGL/56' MSL. Multiple trees and light poles beginning 563' from departure end of runway, 53' right of centerline, up to 81' AGL/95' MSL. **Rwy 27L**, fence 154' from departure end of runway, 120' left of centerline, 5' AGL/13' MSL. Road 212' from departure end of runway, 80' left of centerline, 11' AGL/20' MSL. Sign, multiple buildings, poles and trees beginning 622' from departure end of runway, 227' left of centerline, up to 97' AGL/106' MSL. Bush, multiple light poles, trees and towers beginning 221' from departure end of runway, 41' right of centerline, up to 105' AGL/114' MSL. **Rwy 27R**, antenna on building, road, railroad and sign beginning 262' from departure end of runway, 6' left of centerline, up to 37' AGL/46' MSL. Multiple trees beginning 1206' from departure end of runway, 279' left of centerline, up to 93' AGL/97' MSL. Road 584' from departure end of runway, 557' right of centerline, 24' AGL/33' MSL. Multiple trees beginning 2288' from departure end of runway, 848' right of centerline, up to 103' AGL/112' MSL. **Rwy 31**, rod on tower 299' from departure end of runway, 382' left of centerline, 14' AGL/23' MSL. Tree 1332' from departure end of runway, 458' left of centerline, 34' AGL/43' MSL. Road 3384' from departure end of runway, 711' left of centerline, 84' AGL/94' MSL. Multiple trees and poles beginning 1180' from departure end of runway, 405' right of centerline, up to 111' AGL/116' MSL.

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TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



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FORT MYERS, FL

PAGE FIELD

TAKE-OFF MINIMUMS: **Rwy 5**, 300-1 or std. with a min. climb of 470' per NM to 400. **Rwy 13**, 300-1 or std. with a min. climb of 270' per NM to 400. **Rwy 31**, 300-1 or std. with a min. climb of 430' per NM to 400.

SOUTHWEST FLORIDA INTL

NOTE: **Rwy 6**, trees beginning 1398' from departure end of runway, 582' left of centerline, up to 84' AGL/104' MSL. Trees beginning 1763' from departure end of runway, 860' right of centerline, up to 95' AGL/115' MSL. **Rwy 24**, tree 1692' from departure end of runway, 916' right of centerline, 78' AGL/98' MSL.

FORT PIERCE, FL

ST. LUCIE COUNTY INTL

DEPARTURE PROCEDURE: **Rwys 14, 32**, climb runway heading to 600 before turning right.

GAINESVILLE, FL

GAINESVILLE REGIONAL

NOTE: **Rwy 7**, multiple trees beginning 1397' from departure end of runway, 348' left of centerline, up to 99' AGL/229' MSL. Multiple trees beginning 1444' from departure end of runway, 144' right of centerline, up to 72' AGL/202' MSL. **Rwy 11**, multiple trees beginning 653' from departure end of runway, 438' right of centerline, up to 30' AGL/134' MSL. Tree 522' from departure end of runway, 402' left of centerline, 18' AGL/122' MSL. **Rwy 25**, tower and multiple trees beginning 2415' from departure end of runway, 9' left of centerline, up to 126' AGL/291' MSL. Obstruction light on localizer and multiple trees beginning 208' from departure end of runway, 463' right of centerline, up to 82' AGL/243' MSL. **Rwy 29**, multiple trees beginning 1279' from departure end of runway, 8' right of centerline, up to 76' AGL/233' MSL. Multiple trees beginning 2679' from departure end of runway, 366' left of centerline, up to 88' AGL/240' MSL.

HOLLYWOOD, FL

NORTH PERRY

TAKE-OFF MINIMUMS: **Rwys 9L/R, 18L/R, 36L/R, NA, Rwy 27L/R**, 300-1 or std. with a min. climb of 370' per NM to 400.

DEPARTURE PROCEDURE: **Rwys 27L/R**, climb runway heading to 1100 before turning.

HOMESTEAD ARB (KHST)

HOMESTEAD, FL (03331)

Departure headings 260°-350° not authorized. CAUTION: Unmarked and lighted balloon and cable to 14,000' in R-2916, 77 NM SW of arpt.

TAKE-OFF OBSTACLES: **Rwy 5**, 22' MSL (15' AGL) vehicle on road 1350' from departure end of rwy, from 150' left of centerline to 300' right of centerline. 38' MSL (31' AGL) aircraft at hold line 281' left of centerline. **Rwy 23**, 39' MSL (32' AGL) aircraft at hold short line at departure end of rwy, 300' right of centerline. 22' MSL (15' AGL) vehicle on road 1390' from departure end of rwy, from 520' left of centerline to 810' right of centerline.

HURLBURT FLD (KHRT)

MARY ESTHER, FL

TAKE-OFF OBSTACLES: **Rwy 36**: 85' AGL tree, 3140' from departure end of rwy, 707' right of centerline.

IMMOKALEE, FL

IMMOKALEE

TAKE-OFF MINIMUMS: **Rwy 18**, 500-2 or std. with a min. climb of 230' per NM to 500.

NOTE: **Rwy 18**, tower 10161' from departure end of runway, 3000' right of centerline, 297' AGL/323' MSL.

ISLA DE VIEQUES, PR

ANTONIO RIVERA RODRIGUEZ

TAKE-OFF MINIMUMS: **Rwy 9, NA, Rwy 27**, 500-1 or std. with a min. climb of 300' per NM to 1600.

DEPARTURE PROCEDURE: **Rwy 9, NA, Rwy 27**, climb runway heading to 1600 before proceeding on course.

NOTE: **Rwy 27**, trees 1200' from departure end of runway, 700' left of centerline, 30' AGL/171' MSL.

JACKSONVILLE, FL

CRAIG MUNI

TAKE-OFF MINIMUMS: **Rwy 23**, 1100-3 or std. with a min. climb of 320' per NM to 1300.

DEPARTURE PROCEDURE: **Rwy 5**, climb runway heading to 800 before turning south. **Rwy 14**, climb runway heading to 1000 before turning right.

HERLONG

DEPARTURE PROCEDURE: **Rwy 7**, climb heading 060° to 800 before proceeding on course. **Rwy 11**, climb runway heading to 800 before proceeding on course.

JACKSONVILLE INTL

NOTE: **Rwy 7**, bush 83' from departure end of runway, 262' right of centerline, 6' AGL/30' MSL. Multiple trees beginning 2737' from departure end of runway, 429' right of centerline, up to 89' AGL/118' MSL. **Rwy 13**, electrical equipment 79' from departure end of runway, 292' left of centerline, 3' AGL/27' MSL. Multiple trees beginning 1761' from departure end of runway, 563' left of centerline, up to 100' AGL/121' MSL. Multiple trees beginning 899' from departure end of runway, 151' right of centerline, up to 102' AGL/121' MSL. Pole 755' from departure end of runway, 700' left of centerline, 33' AGL/52' MSL. **Rwy 25**, multiple trees beginning 2341' from departure end of runway, 793' right of centerline, up to 80' AGL/102' MSL. **Rwy 31**, tree 2816' from departure end of runway, 691' left of centerline, 83' AGL/102' MSL. Multiple trees beginning 2227' from departure end of runway, 576' right of centerline, up to 89' AGL/108' MSL.

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JACKSONVILLE NAS (TOWERS FIELD) (KNIF)

JACKSONVILLE, FL

TAKE-OFF OBSTACLES: Rwy 27: 95' MSL structure 3400' from DER. 1285' left of RCL; 77' MSL structure 2342' from DER 685' left of RCL; 74' MSL 2341' from DER, 382' left of RCL.

Rwy 9: Climb to 3000 via heading 100° prior to turns on course.

Rwy 27: Climb to 2000 via heading 230° prior to turns on course.

KEY WEST, FL

KEY WEST INTL

DEPARTURE PROCEDURE: **Rwys 9, 27**, climb on a heading between 087° clockwise to 033° from departure end of runway to avoid R-2916 and unmarked tethered balloon up to 14000 MSL.

NOTE: **Rwy 9**, rod on antenna, dome on building, poles, and numerous trees beginning 38' from departure end of runway, 199' right of centerline, up to 75' AGL/82' MSL. Obstruction light on building, pole, and numerous trees beginning 4' from departure end of runway, 220' left of centerline, up to 38' AGL/45' MSL. **Rwy 27**, pole and numerous trees beginning 27' from departure end of runway, 116' right of centerline, up to 83' AGL/90' MSL. Numerous bushes and trees beginning 202' from departure end of runway, 78' left of centerline, up to 37' AGL/44' MSL.

KEY WEST NAS (BOCA CHICA FLD) (KNQX)

KEY WEST, FL 07074

Rwy 3, obstacle identification surface begins 25' above DER. Diverse departures authorized between 028° CW to 216°. Left turn to departure heading only. **Rwy 7**, diverse departures authorized between 087° CW to 257°. Right turn to departure heading only. **Rwy 13**, diverse departures authorized between 084° CW to 315°. **Rwy 21**, diverse departures authorized between 084° CW to 315°.

Rwy 25, diverse departures authorized between 084° CW to 315°. **Rwy 31**, obstacle identification surface begins 20' above DER. Diverse departures authorized between 084° CW to 035°.

TAKEOFF OBSTACLES:

Rwy 3, Mast 1374' from DER, 323' left of centerline, 58' AGL/63' MSL. **Rwy 31**, Bldg 1058' from DER, 558' right of centerline, 39' AGL/43' MSL. Pole 1551' from DER, 474' right of centerline, 54' AGL/58' MSL.

LAKE CITY, FL

LAKE CITY MUNI

TAKE-OFF MINIMUMS: **Rwy 28**, 300-1 or std. with a min. climb of 330' per NM to 500.

LEESBURG, FL

LEESBURG INTL

TAKEOFF MINIMUMS: **Rwy 3**, 300-2 ¼ or std. w/min. climb of 272' per NM to 600.

NOTE: **Rwy 3**, tower 1.78 NM from departure end of runway, 2631' left of centerline 310' AGL/382' MSL. Road 176' from departure end of runway, 1.8' left of centerline, 15' AGL/90' MSL. Blast fence 78' from departure end of runway, on centerline, 10' AGL/85' MSL. Multiple trees and sign beginning 187' from departure end of runway, 250' left of centerline up to 84' AGL/150' MSL. Multiple trees and poles beginning 62' from departure end of runway, 209' right of centerline up to 77' AGL/137' MSL. **Rwy 13**, multiple trees beginning 265' from departure end of runway, 364' left of centerline up to 90' AGL/150' MSL. Multiple trees beginning 180' from departure end of runway, 369' right of centerline up to 74' AGL/140' MSL. Road 442' from departure end of runway, on centerline, 15' AGL/80' MSL. **Rwy 21**, tree 938' from departure end of runway, 700' left of centerline, 96' AGL/179' MSL. Tree 952' from departure end of runway, 749' left of centerline, 96' AGL/179' MSL. Multiple trees beginning 775' from departure end of runway, 201' left of centerline, up to 96' AGL/168' MSL. Road 75' from departure end of runway, 390' left of centerline, 27' AGL/80' MSL. Tree 3614' from departure end of runway, 126' right of centerline 97' AGL/173' MSL. **Rwy 31**, multiple trees beginning 832' from departure end of runway, 154' right of centerline up to 74' AGL/173' MSL. Multiple trees beginning 170' from departure end of runway, 375' left of centerline up to 75' AGL/144' MSL. Pole 3193' from departure end of runway, 441' left of centerline, 75' AGL/154' MSL. Multiple poles beginning 1573' from departure end of runway, 103' right of centerline, up to 52' AGL/131' MSL.

MACDILL AFB (KMCF)

TAMPA, FL07102

TAKE-OFF OBSTACLES: **Rwy 4**; Palm tree 60' AGL/73' MSL 2134' from DER, 961' left of centerline. Pylon 71' AGL/101' MSL 3961' from DER, 166' left of centerline.

MARATHON, FL

THE FLORIDA KEYS MARATHON

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1 or std. with a min. climb rate of 330' per NM until 400. **Rwy 25**, 300-1 or std. with a min. climb rate of 300' per NM until 400.

NOTE: **Rwys 7, 25** cross departure end of runway at or above 35' AGL/40' MSL.

MARCO ISLAND, FL

MARCO ISLAND

DEPARTURE PROCEDURE: **Rwy 35**, aircraft proceeding on a course between 270° CW 030° fly heading 030° to 1000 before proceeding on course. **CAUTION:** Strobe light and unmarked balloon on cable to 14000' in R-2916, 78 NM south of Marco Island. **All aircraft** should establish positive course guidance to ensure avoidance of this obstacle.

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TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



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MAYAGUEZ, PR

EUGENIO MARIA DE HOSTOS

TAKE-OFF 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 northeastbound 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) (NRB)

MAYPORT, FL

Rwy 5; Shipping to 150' MSL, 500' to 2900' from departure end of rwy. Rwy 23; Shipping to 150' MSL, 1600' right of rwy centerline extended to 4000' from departure end of rwy.

MELBOURNE, FL

MELBOURNE INTL

NOTES: **Rwy 5**, multiple trees 1580' from departure end of runway, 232' left of centerline, up to 42' AGL/64' MSL. **Rwy 23**, tree 284' from departure end of runway, 475' left of centerline, 47' AGL/72' MSL. Tree 1150' from departure end of runway, 120' left of centerline, 34' AGL/64' MSL. Bush 20' from departure end of runway, 217' right of centerline, 8' AGL/33' MSL. **Rwy 9L**, tree 107' from departure end of runway, 478' left of centerline, 39' AGL/62' MSL. **Rwy 27R**, multiple trees beginning 1200' from departure end of runway, 113' right of centerline, up to 68' AGL/88' MSL. Tree 542' from departure end of runway, 615' left of centerline, 55' AGL/78' MSL. Tree 1817' from departure end of runway, 169' left of centerline, 58' AGL/81' MSL. **Rwy 9R**, multiple trees beginning 1853' from departure end of runway, 433' left of centerline up to 53' AGL/73' MSL. Tree 1332' from departure end of runway, 433' right of centerline, 31' AGL/56' MSL.

MERRITT ISLAND, FL

MERRITT ISLAND

NOTE: **Rwy 29**, rod on airport beacon obstruction light, 138' from departure end of runway, 514' right of centerline, 61' AGL/67' MSL; pole, 82' from departure end of runway, 403' left of centerline, 34' AGL/40' MSL; pole, 468' from departure end of runway, 508' right of centerline, 37' AGL/43' MSL; hangar, 221' from departure end of runway, 278' right of centerline, 22' AGL/28' MSL; pole 490' from departure end of runway, 306' left of centerline, 28' AGL/34' MSL; tree, 987' from departure end of runway, 476' left of centerline, 40' AGL/46' MSL; tree 1287' from departure end of runway, 432' left of centerline, 47' AGL/53' MSL; tree 1415' from departure end of runway, 560' left of centerline, 48' AGL/54' MSL; building, 556' from departure end of runway, 530' right of centerline, 25' AGL/31' MSL; tree, 1654' from departure end of runway, 464' right of centerline, 48' AGL/54' MSL; obstruction light on windsock, 551' from departure end of runway, 234' right of centerline, 19' AGL/25' MSL; pole, 1306' from departure end of runway, 259' right of centerline, 37' AGL/43' MSL; building, 429' from departure end of runway, 436' right of centerline, 15' AGL/21' MSL; tree, 1953' from departure end of runway, 524' left of centerline, 49' AGL/55' MSL.

MIAMI, FL

KENDALL-TAMIAMI EXECUTIVE

DEPARTURE PROCEDURE: **Rwys 9L, 9R, 13**, climb runway heading to 1400 before turning right.

Rwys 27L, 27R, 31, climb runway heading to 1400 before turning left.

NOTE: **Rwy 27R**, tower 600' from departure end of runway, 450' right of centerline, 10' AGL/64' MSL.

Rwy 9R, tree 1475' from departure end of runway, 700' left of centerline, 14' AGL/80' MSL.

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MIAMI, FL (CON'T)

MIAMI INTL

TAKE-OFF MINIMUMS: **Rwy 8L**, 300-1½ or std. w/ min. climb of 382' per NM to 300. **Rwy 9**, std. w/ min. climb of 233' per NM to 1200.

DEPARTURE PROCEDURE: **Rwys 8L/R**, climb heading 092° to 1000 before turning right. **Rwy 12**, climbing right turn to intercept DHP VORTAC R-125 to 1100 before turning left.

NOTE: **Rwy 8L**, building 3391' from departure end of runway, 1024' left of centerline, 160' AGL/172' MSL. Glideslope antenna 804' from departure end of runway, 501' right of centerline, 32' AGL/46' MSL. Multiple towers and buildings beginning 1350' from departure end of runway, 691' left of centerline, up to 150' AGL/164' MSL. **Rwy 8R**, tree 4064' from departure end of runway, 959' right of centerline, 98' AGL/112' MSL. Antenna and multiple trees beginning 2719' from departure end of runway, 194' left of centerline, up to 85' AGL/98' MSL. **Rwy 9**, light 1232' from departure end of runway, 785' left of centerline, 39' AGL/48' MSL. Windsock 22' from departure end of runway, 438' right of centerline, 21' AGL/30' MSL. **Rwy 12**, railroad beginning 4' from departure end of runway, 356' right of centerline, 23' AGL/28' MSL. Building and tree beginning 1064' from departure end of runway, 118' right of centerline, up to 94' AGL/108' MSL. Windsock 681' from departure end of runway, 345' left of centerline, 21' AGL/30' MSL. **Rwy 26L**, tower and multiple trees beginning 1306' from departure end of runway, 638' right of centerline, up to 63' AGL/77' MSL. Tree and light pole beginning 1773' from departure end of runway, 568' left of centerline, up to 61' AGL/75' MSL. **Rwy 26R**, tower, building, multiple light poles and trees beginning 741' from departure end of runway, 1' right of centerline, up to 66' AGL/80' MSL. Pole, building, and tower beginning 255' from departure end of runway, 5' left of centerline, up to 34' AGL/48' MSL. **Rwy 27**, railroad, tree and multiple light poles beginning 750' from departure end of runway, 94' left of centerline, up to 62' AGL/76' MSL. **Rwy 30**, pole, multiple towers and trees beginning 1414' from departure end of runway, 189' right of centerline, up to 120' AGL/125' MSL. Tree 2058' from departure end of runway, 785' left of centerline, 52' AGL/66' MSL.

OPA LOCKA

TAKE-OFF MINIMUMS: **Rwy 9R**, 300-1 or std. with a min. climb of 270' per NM to 400'. **Rwy 18**, 300-1 or std. with a min. climb of 380' per NM to 400'. **Rwy 36**, 300-1 or std. with a min. climb of 420' per NM to 500'.
DEPARTURE PROCEDURE: **Rwys 9L, 9R, 12**, climb heading 090° to 1100 before proceeding on course. **Rwys 27R, 36**, climb heading 340° to 1100 before proceeding on course.

MILTON, FL

PETER PRINCE FIELD

NOTE: **Rwy 18**, power line 204' from departure end of runway on centerline, 40' AGL/119' MSL.

NAPLES, FL

NAPLES MUNI

TAKE-OFF MINIMUMS: **Rwys 14, 32**, 300-1. **Rwy 23**, 300-1 or use NAPLES GRAPHIC DEPARTURE.

NOTE: **Rwy 14**, trees to 108' MSL 400' left and right of departure end of runway. **Rwy 23**, trees to 110' MSL 400' left and right of departure end of runway. **Rwy 32**, 92' MSL tree 575' from departure end of runway, 400' right of centerline.

NASA SHUTTLE LANDING FACILITY (KTTS)

TITUSVILLE, FL

Rwy 15, Climb rwy heading to 800 before turning East.

NEW SMYRNA BEACH, FL

NEW SMYRNA BEACH MUNI

NOTE: **Rwy 2**, tree 1271' from departure end of runway, 628' left of centerline, 85' AGL/93' MSL, tree 1816' from departure end of runway, 585' right of centerline, 48' AGL/56' MSL. **Rwy 6**, transmission tower 348' from departure end of runway, 348' right of centerline, 43' AGL/51' MSL, transmission tower 1832' from departure end of runway, 150' left of centerline, 53' AGL/61' MSL. **Rwy 11**, tree 509' from departure end of runway, 499' left of centerline, 53' AGL/61' MSL, tree 1420' from departure end of runway, 485' right of centerline, 54' AGL/62' MSL. **Rwy 20**, tree 542' from departure end of runway, 397' right of centerline, 71' AGL/80' MSL, tree 1345' from departure end of runway, 322' left of centerline, 72' AGL/81' MSL. **Rwy 24**, tree 1674' from departure end of runway, 104' left of centerline, 90' AGL/100' MSL, tree 1835' from departure end of runway, 158' right of centerline, 86' AGL/96' MSL. **Rwy 29**, tree 1853' from departure end of runway, 197' left of centerline, 90' AGL/100' MSL, tree 1535' from departure end of runway, 394' right of centerline, 76' AGL/86' MSL.

ORLANDO, FL

EXECUTIVE

TAKE-OFF MINIMUMS: **Rwy 25**, 500-2½ or std. with a min. climb of 260' per NM to 700.

NOTE: **Rwy 7**, numerous trees beginning 194' from departure end of runway, 542' right of centerline, up to 114' AGL/132' MSL. **Rwy 13**, numerous trees and poles beginning 824' from departure end of runway, 126' right of centerline, up to 119' AGL/173' MSL. Pole 1275' from departure end of runway, 502' left of centerline, 119' AGL/160' MSL. **Rwy 25**, building 2 NM from departure end of runway, 4195' right of centerline, 439' AGL/547' MSL. Numerous trees beginning 1318' from departure end of runway, 277' right of centerline, up to 119' AGL/191' MSL. Tree 1823' from departure end of runway, 582' left of centerline, 109' AGL/156' MSL. **Rwy 31**, numerous poles and trees beginning 828' from departure end of runway, 392' right of centerline, up to 109' AGL/139' MSL. Numerous poles, trees, and antenna beginning 948' from departure end of runway, 229' left of centerline, up to 104' AGL/161' MSL.

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ORLANDO, FL (CON'T)

KISSIMMEE GATEWAY

TAKE-OFF MINIMUMS: **Rwy 6**, 300-1.

ORLANDO INTL

TAKE-OFF MINIMUMS: **Rwy 35R**, 300-1 or std. with a min. climb of 340' per NM to 400.

NOTE: **Rwy 17L**, numerous trees from 1080' to 1725' from departure end of runway, from 600' to 740' left of centerline, from 44' AGL/134' MSL to 53' AGL/143' MSL.

Rwy 35R, tree 2225' from departure end of runway, 730' right of centerline, 94' AGL/184' MSL.

ORLANDO SANFORD INTL

TAKE-OFF MINIMUMS: **Rwys 9R, 27L**, NA-VFR runway. **Rwy 27R**, 300-1 or std. with a min. climb of 280' per NM to 400. **Rwy 27C**, 300-1 or std. with a min. climb of 460' per NM to 500.

DEPARTURE PROCEDURE: Use SANFORD DEPARTURE.

NOTE: **Rwy 9L**, numerous trees from 200' to 2300' from departure end of runway, 200' to 700' left and right of centerline, from 13' AGL/43' MSL to 60' AGL/90' MSL.

Rwy 9C, tree 2300' from departure end of runway, 90' right of centerline, 71' AGL/111' MSL. **Rwy 27R**, tower 3435' from departure end of runway, 1330' left of centerline, 115' AGL/171' MSL. **Rwy 27C**, tower 2360' from departure end of runway, 550' left of centerline, 128' AGL/185' MSL.

PAHOKEE, FL

PALM BEACH COUNTY GLADES

NOTE: **Rwy 17**, tower 1600' from departure end of runway, 690' left of centerline, 127' AGL/143' MSL.

PANAMA CITY, FL

PANAMA CITY-BAY COUNTY INTL

TAKE-OFF MINIMUMS: **Rwy 5**, 400-2 or std. with a min. climb of 220' per NM to 500.

PATRICK AFB (KCOF)

COCOA BEACH, FL 07130

Rwy 2, Diverse departure authorized. Cross DER at or above 20' AGL/18' MSL for Take-Off Minima Standard with climb gradient of 200 ft/NM.

Rwy 20, Diverse departure authorized. Cross DER at or above 20' AGL/25' MSL for Take-Off Minima Standard with climb gradient of 200 ft/NM.

TAKE-OFF OBSTACLES: **Rwy 2**, Trees 150' AGL/170' MSL, 1 NM from DER, 1985' left of centerline; Sign 26' AGL/33' MSL, 940' from DER, 648' left of centerline; Road + Truck 37' AGL/45' MSL, max 726' from DER, 620' right of centerline; Flag Pole 85' AGL/96' MSL, 3325' from DER, 1273' left of centerline; Trees 50' AGL/76' MSL, max 1892' from DER, 994' left of centerline; Trees 75' AGL/100' MSL, max 2872' from DER, 1254' left of centerline; Trees 70' AGL/77' MSL, max 2740' from DER, 731' left of centerline; Antenna 79' AGL/104' MSL, 3066' from DER, 1290' left of centerline; Road + Truck 12' AGL/29' MSL, max 747' from DER, 574' right of centerline. **Rwy 20**, Trees 150' AGL/170' MSL, 1 NM from DER, 1801' and 1549' left of centerline; Trees 40' AGL/65' MSL, max 2526' from DER, 452' left of centerline; Trees 40' AGL/65' MSL, 2465' from DER, 620' left of centerline; Trees 40' AGL/100' MSL, 3503' from DER, 425' left of centerline.

PENSACOLA, FL

PENSACOLA REGIONAL

DEPARTURE PROCEDURE: **Rwy 26**, climb runway heading to 800 before turning south.

PENSACOLA NAS (FORREST SHERMAN FLD) (KNPA)

PENSACOLA, FL

Diverse departures not authorized.

PERRY, FL

PERRY-FOLEY

DEPARTURE PROCEDURE: **Rwys 6, 12, 30, 36**, climb on runway heading to 800 before turning.

POMPANO BEACH, FL

POMPANO BEACH AIRPARK

TAKE-OFF MINIMUMS: **Rwy 15**, 400-1 or std. with a min. climb of 300' per NM until 400. **Rwy 28**, 300-1 or std. with a min. climb of 400' per NM until 400.

PONCE, PR

MERCEDITA

TAKE-OFF MINIMUMS: **Rwy 30**, 500-1 or std. with a min. climb of 510' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 12**, climb to 2100 direct PSE VOR/DME and PSE VOR/DME R-121, then climbing right turn direct PSE VOR/DME. Continue climb in holding pattern, hold SE, left turns, 301° inbound, until reaching enroute altitude. **Rwy 30**, immediate climbing left turn to 2100 direct PSE VOR/DME and PSE VOR/DME R-121, then climbing right turn direct PSE VOR/DME. Continue climb in holding pattern, hold SE, left turns, 301° inbound, until reaching enroute altitude.

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TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



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PUNTA GORDA, FL

CHARLOTTE COUNTY

TAKE-OFF MINIMUMS: **Rwys 9, 27**, NA-Airport authority request.

NOTE: **Rwy 3**, multiple trees beginning 34' from departure end of runway, 292' right of centerline, up to 63' AGL/84' MSL. **Rwy 15**, multiple trees beginning 133' from departure end of runway, 449' right of centerline, up to 84' AGL/104' MSL. Multiple trees beginning 43' from departure end of runway, 129' left of centerline, up to 48' AGL/68' MSL. **Rwy 21**, multiple trees beginning 373' from departure end of runway, 390' right of centerline, up to 54' AGL/73' MSL. **Rwy 33**, tree 638' from departure end of runway, 618' left of centerline, 38' AGL/53' MSL.

ST. PETERSBURG, FL

ALBERT WHITTED

TAKE-OFF MINIMUMS: **Rwy 36**, 300-1 or std. with a min. climb of 320' per NM until 500.

DEPARTURE PROCEDURE: **Rwy 18, 24**, climb runway heading to 500 before turning right. **Rwy 6, 36**, climb runway heading to 500 before turning left.

NOTE: **Rwy 24**, 70' MSL/63' AGL building 350' from departure end of runway, 375' left of runway centerline.

ST. PETERSBURG-CLEARWATER INTL

TAKE-OFF MINIMUMS: **Rwy 9**, 400-1 or std. with a min. climb of 380' per NM to 300.

NOTE: **Rwy 4**, 65' AGL tree 237' from departure end of runway, 490' right of centerline. **Rwy 17R**, 74' AGL tower 1554' from departure end of runway, 485' right of centerline. **Rwy 27**, 87' AGL antenna 1909' from departure end of runway, 871' left of centerline.

SAN JUAN, PR

FERNANDO LUIS RIBAS DOMINICCI

TAKE-OFF MINIMUMS: **Rwy 9**, 400-2 or std. with a min. climb of 290' per NM to 400. **Rwy 27**, 300-1.

NOTE: **Rwy 9**, numerous close-in trees and buildings to 177' AGL right of centerline within 3200' of departure end, additional buildings to 177' AGL left and right of centerline within 5500' of departure end. **Rwy 27**, ship maneuvering area within 5200' of departure end of runway.

LUIS MUNOZ MARIN INTL

TAKE-OFF MINIMUMS: **Rwys 26, 28**, 300-1 or std. with a min. climb of 450' per NM to 1000. DEPARTURE PROCEDURE: southeastbound (120° CW 165°) min. climb of 365' per NM to 4200 or climb to 2900 before entering this sector.

SARASOTA/BRADENTON, FL

SARASOTA/BRADENTON INTL

NOTE: **Rwy 4**, multiple trees, poles, and antenna beginning 1216' from departure end of runway, 112' left of centerline, up to 58' AGL/92' MSL. Multiple trees, fences, roads, floodlights, and buildings beginning 222' from departure end of runway, 232' right of centerline, up to 58' AGL/92' MSL. **Rwy 14**, multiple trees beginning 625' from departure end of runway, 526' right of centerline up to 63' AGL/87' MSL. Trees, 76' from departure end of runway, 477' left of centerline, 29' AGL/48' MSL. **Rwy 22**, light standard and multiple trees beginning 881' from departure end of runway, 38' left of centerline, up to 113' AGL/127' MSL. Multiple trees, fences, roads, floodlights, and buildings beginning 222' from departure end of runway, 232' right of centerline, up to 62' AGL/86' MSL. **Rwy 32**, pole and multiple trees beginning 944' from departure end of runway, 533' right of centerline, up to 58' AGL/82' MSL. Pole and multiple trees beginning 275' from departure end of runway, 359' left of centerline up to 86' AGL/105' MSL. Tower 5673' from departure end of runway, 1849' right of centerline, 162' AGL/177' MSL.

STUART, FL

WITHAM FIELD

DEPARTURE PROCEDURE: **Rwys 25, 30**, climb heading 290° to 1800 before proceeding on course.

TAMPA, FL

PETER O KNIGHT

TAKE-OFF MINIMUMS: **Rwy 3**, 400-1 or std. with a min. climb of 640' per NM to 400. **Rwy 35**, 700-1 or std. with a min. climb of 440' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 3**, climb runway heading to 700 before turning left.

TAMPA INTL

TAKE-OFF MINIMUMS: **Rwy 18L**, 300-1 or std. with a min. climb of 250' per NM to 300.

DEPARTURE PROCEDURE: **Rwy 9**, climb runway heading to 700 before turning south.

VANDENBERG

TAKE-OFF MINIMUMS: **Rwy 18**, 500-3 or std. with a min. climb of 220' per NM to 600.

TITUSVILLE, FL

ARTHUR DUNN AIR PARK

TAKE-OFF MINIMUMS: **Rwy 15**, 400-2 or std. with a min. climb of 260' per NM to 600.

SPACE COAST REGIONAL

TAKE-OFF MINIMUMS: NOTE: **Rwy 36**, 60' AGL trees 254' from departure end of runway, 526' right of centerline.

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TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



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TYNDALL AFB (KPAM)

PANAMA CITY, FL. 06327

TAKE-OFF OBSTACLES: **Rwy 13L**, 29' MSL/13' AGL vehicle on road 127' from DER, 533' right of centerline. 39' MSL/20' AGL aircraft 6' inward of DER, 301' right of centerline. **Rwy 31L**, 27' MSL/11' AGL building 188' from DER, 519' left of centerline. 81' MSL/66' AGL aircraft 4' inward of DER, 302' left of centerline. **Rwy 31R**, 29' MSL/13' AGL vehicle 2' inward of DER, 458' right of centerline. 29' MSL/13' AGL vehicle 3' inward of DER, 383' left of centerline.

VENICE, FL

VENICE MUNI

NOTE: **Rwy 4**, crane 1120' from departure end of runway, 210' right of centerline, 146' AGL/163' MSL.

WAUCHULA, FL

WAUCHULA MUNI

NOTE: **Rwy 18**, trees 450' from departure end of runway, 130' left of centerline, 22' AGL/126' MSL. **Rwy 36**, trees 183' from departure end of runway, 350' left of centerline, 49' AGL/145' MSL. Powerline 582' from departure end of runway, on centerline, 51' AGL/140' MSL. Tree, 323' from departure end of runway, 490' left of centerline, 100' AGL/200' MSL. Tree 39' from departure end of runway, 486' right of centerline, 100' AGL/185' MSL.

WEST PALM BEACH, FL

PALM BEACH COUNTY PARK

TAKE-OFF MINIMUMS: **Rwy 3**, 300-1 or std. with a min. climb of 330' per NM to 400. **Rwy 33**, 300-1 or std. with a min. climb of 460' per NM to 500.

DEPARTURE PROCEDURE: **Rwys 21, 33**, climb runway heading to 1000 before turning west. **Rwy 27**, climbing left turn to 1000 via heading 180° before proceeding on course.

NOTE: **Rwy 3**, crane 1.25 NM from departure end of runway, 1660' right of centerline, 260' AGL/285' MSL. **Rwy 33**, crane 4700' from departure end of runway, on centerline, 220' AGL/234' MSL.

PALM BEACH INTL

TAKE-OFF MINIMUMS: **Rwy 31**, 300-1 or std. with a min. climb of 430' per NM until 500.

DEPARTURE PROCEDURE: **Rwys 27L, 27R**, climb runway heading to 1000 before turning left.

NOTE: **Rwy 9R**, 57' MSL (40' AGL) antenna on hangar 180' from departure end of runway, 450' right of centerline. **Rwy 13**, 67' MSL (51 AGL) trees 600' from departure end of runway, 600' right of centerline.

WILLISTON, FL

WILLISTON MUNI

TAKE-OFF MINIMUMS: **Rwy 5**, 400-2½ or std. w/ min. climb of 257' per NM to 600.

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° clockwise 048° from departure end of runway, or minimum climb of 248' per NM to 1900 for all other courses.

NOTE: **Rwy 5**, brush and multiple trees beginning 38' from departure end of runway, 54' left of centerline, up to 100' AGL/179' MSL. Tower 2 NM from departure end of runway, 2343' left of centerline, 324' AGL/399' MSL. Brush and multiple trees beginning 49' from departure end of runway, 234' right of centerline, up to 100' AGL/179' MSL. **Rwy 14**, multiple trees 799' from departure end of runway, on centerline, up to 30' AGL/99' MSL. Multiple trees beginning 1143' from departure end of runway, 381' left of centerline, up to 100' AGL/174' MSL. Road and multiple trees beginning 13' from departure end of runway, 208' right of centerline, up to 100' AGL/179' MSL. **Rwy 23**, multiple trees beginning 445' from departure end of runway, 8' left of centerline, up to 100' AGL/184' MSL. Multiple trees beginning 430' from departure end of runway, 403' right of centerline, up to 100' AGL/189' MSL. **Rwy 32**, multiple trees 799' from departure end of runway, on centerline, up to 50' AGL/124' MSL. Multiple trees beginning 719' from departure end of runway, 288' left of centerline, up to 100' AGL/194' MSL. Multiple trees beginning 497' from departure end of runway, 442' right of centerline, up to 100' AGL/194' MSL.

WINTER HAVEN, FL

DEPARTURE PROCEDURE: **Rwy 22**, climb runway heading to 1000 before turning south.

ZEPHYRHILLS, FL

ZEPHYRHILLS MUNI

TAKE-OFF MINIMUMS: **Rwy 4**, 400-2 or std. with a min. climb of 280' per NM to 400.

DEPARTURE PROCEDURE: **Rwy 22**, climb runway heading to 500 before right turn.

NOTE: **Rwy 4**, tower 1.6 NM from departure end of runway, 2675' right of centerline, 260' AGL/346' MSL.

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