



TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



05188

INSTRUMENT APPROACH PROCEDURE CHARTS

VFR 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.

NAME TAKE-OFF MINIMUMS
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.

CAPE CANAVERAL AFS SKID STRIP (CXMR) (03275)
 COCOA BEACH, FL

DEPARTURE PROCEDURES: **Rwy 31**, climb on track 310° to 600' before turning right.

TAKE-OFF OBSTACLES: **Rwy 13**, numerous trees 500' left and right of rwy centerline beginning from departure end of rwy, and numerous trees 1100' from departure end of rwy, up to 45' AGL/50' MSL. **Rwy 31**, numerous trees 500' left and right of rwy centerline beginning from departure end of rwy, and numerous trees 1000' from departure end of rwy up to 45' AGL/50' MSL.

NAME TAKE-OFF MINIMUMS
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. ROHLSSEN
 TAKE-OFF MINIMUMS: **Rwy 10**, 1000-3 or std. with a min. climb of 300' per NM to 1400.
 DEPARTURE PROCEDURE: **Rwy 10**, climb runway heading to 1400 before turning left. **Rwy 28**, climb runway heading to 1400 before turning right.

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.

04 AUG 2005 to 01 SEP 2005

04 AUG 2005 to 01 SEP 2005

05188



TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



SE-3



TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



05188

DELAND, FL

DELAND MUNI/SIDNEY H. TAYLOR FIELD
DEPARTURE PROCEDURE: **Rwys 5, 12, 30**, aircraft proceeding on a course between 120° CW to 260°, climb runway heading to 1800 before turning on course.
Rwy 23, aircraft proceeding on a course between 120° CW to 260°, climb heading 260° to 1800 before turning on course.

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 13**, climb runway heading to 1300 before turning right. **Rwy 27L**, climb runway heading to 1300 before turning left.
NOTE: **Rwy 9R**, 70' MSL (53' AGL) tree 570' from departure end of runway, 400' right of centerline.
Rwy 13, 70' MSL (53' AGL) tree 840' from departure end of runway, 560' left of centerline. **Rwy 27L**, 91' MSL (80' AGL) tree 760' from departure end of runway, 640' right of centerline.

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.

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 6**, 100' AGL tree 1403' from departure end of runway, 729' left of centerline. **Rwy 24**, 100' AGL tree 2521' from departure end of runway, 663' left of centerline.

HOLLYWOOD, FL

NORTH PERRY
TAKE-OFF MINIMUMS: **Rwys 9L/R, 18L/R, 36L/R**, NA. **Rwys 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 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.

04 AUG 2005 to 01 SEP 2005

04 AUG 2005 to 01 SEP 2005

05188



TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



SE-3



05188

KEY WEST, FL**KEY WEST INTL**

DEPARTURE PROCEDURE: **All aircraft** departing on EYW R-086 CW R-037, climb on course. All others climb direct EYW VORTAC, continue climb in holding pattern (NW, right turns, 127° inbound) to cross EYW VORTAC at or above 15000. Departure procedure not required for departures on B646.

CAUTION: Strobe light and unmarked balloon on cable to 14000' in R-2916.

**KEY WEST NAS (BOCA CHICA FLD)
(KNQX)****KEY WEST, FL**

Diverse Departure not authorized between 041° and 071° bearing from ARP.

Rwy 7, cross departure end of rwy at or above 35 ft AGL (38 ft MSL).

Rwy 31, cross departure end of rwy at or above 35 ft AGL (38 ft MSL).

Tk of obstacle Rwy 7: Mast, 63' MSL (59' AGL), 1375' from and 321' left of DER.

Tk of obstacle Rwy 31: Pole, 58' MSL (54' AGL), 1550' from and 474' right of DER.

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 REGIONAL**

CAUTION: Strobe lights and unmarked balloon on cable to 15000' MSL in R-2833, 87 NM northwest of Leesburg Muni. **All aircraft** should establish positive course guidance to ensure avoidance of obstacle.

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: Rwy 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.

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.

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.

MIAMI INTL

TAKE-OFF MINIMUMS: **Rwys 8L, 8R, 9, 12**, std. with a min. climb of 370' per NM to 1800'.

DEPARTURE PROCEDURE: **Rwy 26L, 26R, 30**, climb runway heading to 600 before left turn. **Rwy 27**, climb runway heading to 600 before right turn.

NOTE: Rwy 8L, 8R, 9, 12 building 4.9 NM east of airport, 844' AGL/849' MSL. **Rwy 8L**, building 3400' from departure end of runway, 1050' left of centerline, 149' AGL/159' MSL.

04 AUG 2005 to 01 SEP 2005

04 AUG 2005 to 01 SEP 2005

05188



SE-3



TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



05188

MIAMI, FL (CON'T)

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.

NEW SMYRNA BEACH, FL

NEW SMYRNA BEACH MUNI

TAKE-OFF MINIMUMS: **Rwy 2, 6**, 300-1.

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.

KISSIMEE 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, FL (CON'T)

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

Diverse departures not authorized.

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.

04 AUG 2005 to 01 SEP 2005

04 AUG 2005 to 01 SEP 2005

05188



TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



SE-3



TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



05188

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.

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.

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.

TITUSVILLE/NASA SHUTTLE LANDING FACILITY (KTTS)

TITUSVILLE, FL

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

TYNDALL AFB (KPAM)

PANAMA CITY , FL

04078

TAKE-OFF OBSTACLES: Rwy 13L: 29' MSL/13' AGL vehicle on road 127' from departure end of rwy, 533' right of centerline. Rwy 31L: 27' MSL/11' AGL building 192' from departure end of rwy, 518' left of centerline; 81' MSL/66' AGL aircraft 307' left of departure end of rwy. Rwy 31R: 29' MSL/13' AGL vehicle on road 458' right of departure end of rwy; 29' MSL/13' AGL vehicle on road 383' left of departure end of rwy.

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

TAKE-OFF MINIMUMS: **Rwy 36**, 300-1 or std. with a min. climb of 560' per NM until 400.

NOTE: **Rwy 36**, trees 180' from departure end of runway, 350' left of centerline, 45' AGL/145' MSL.

04 AUG 2005 to 01 SEP 2005

04 AUG 2005 to 01 SEP 2005

05188



TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



SE-3



05188

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**

DEPARTURE PROCEDURE: **Rwy 23**, aircraft departing southwest climb on heading 250° to 1900 before proceeding on course.

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.

04 AUG 2005 to 01 SEP 2005

04 AUG 2005 to 01 SEP 2005

05188



SE-3