

BLUBELL FOUR ARRIVAL
(BLUBL.BLUBL4) 26MAR20

HOUSTON APP CON
124.225 306.975
EFD ATIS
135.575 269.9
HOU D-ATIS
124.6
SGR ATIS *
118.125
TME ATIS
119.525

WACO
115.3 ACT
Chan 100

LLANO
108.2 ILO
Chan 19
N30°47.78'
W98°47.24'
L-19, H-6

CENTEX
112.8 CWK
Chan 75

MAVERICK
113.1 TTT
Chan 78

COWBOY
116.2 CVE
Chan 109

LEONA
110.8 LOA
Chan 45
N31°07.44'
W95°58.08'
L-19, H-6

COLLEGE STATION
113.3 CLL
Chan 80
N30°36.30'-W96°25.24'
L-19-21, H-7

BLUBL
9000
N30°18.27'
W96°18.18'

NAVASOTA
115.9 TNV
Chan 106

JAYJO
N30°20.23'
W96°48.90'
L-19-21, H-7

SNDAY
N29°56.42'
W96°09.68'
9000

INDUSTRY
110.2 IDU
Chan 39

NOTE: RADAR required.
NOTE: JAYJO TRANSITION
for Austin Terminal Area
Departures only.



NOTE: Chart not to scale.

HOUSTON, TEXAS

ARRIVAL ROUTE DESCRIPTION

COLLEGE STATION TRANSITION (CLL.BLUBL4):
From over CLL VORTAC on CLL R-153 to BLUBL. Thence . . .

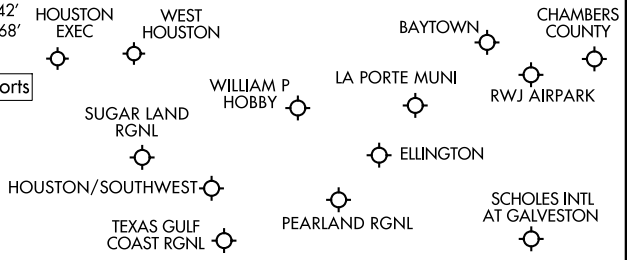
ELLVR TRANSITION (ELLVR.BLUBL4):
From over ELLVR on CLL R-334 to CLL VORTAC, then on CLL R-153 to BLUBL. Thence . . .

JAYJO TRANSITION (JAYJO.BLUBL4):
From over JAYJO on TNV R-266 to BLUBL. Thence . . .

LEONA TRANSITION (LOA.BLUBL4):
From over LOA VORTAC on LOA R-209 and CLL R-029 to CLL VORTAC, then on CLL R-153 to BLUBL. Thence . . .

LLANO TRANSITION (LLO.BLUBL4):
From over LLO VORTAC on LLO R-087 and CLL R-268 to CLL VORTAC, then on CLL R-153 to BLUBL. Thence . . .

. . . From over BLUBL on CLL R-153 to cross SNDAY at 9000, from SNDAY fly heading 153°. Expect vectors to final approach course at or prior to SNDAY.



(BLUBL.BLUBL4) 23110

BLUBELL FOUR ARRIVAL

AL-198 (FAA)

HOUSTON, TEXAS

HOUSTON APP CON
121.3 377.1
CXO ATIS
118.325
EFD ATIS
135.575 269.9
HOU D-ATIS
124.6
SGR ATIS *
118.125

- NOTE: RADAR required.
- NOTE: RNAV 1.
- NOTE: DME/DME/IRU or GPS required.
- NOTE: DME/DME/IRU or GPS equipped Turbojet and Turboprop aircraft capable of 280K or greater must file the WAAPL (RNAV) STAR.

**CESAN
VERTICAL NAVIGATION
PLANNING INFORMATION**

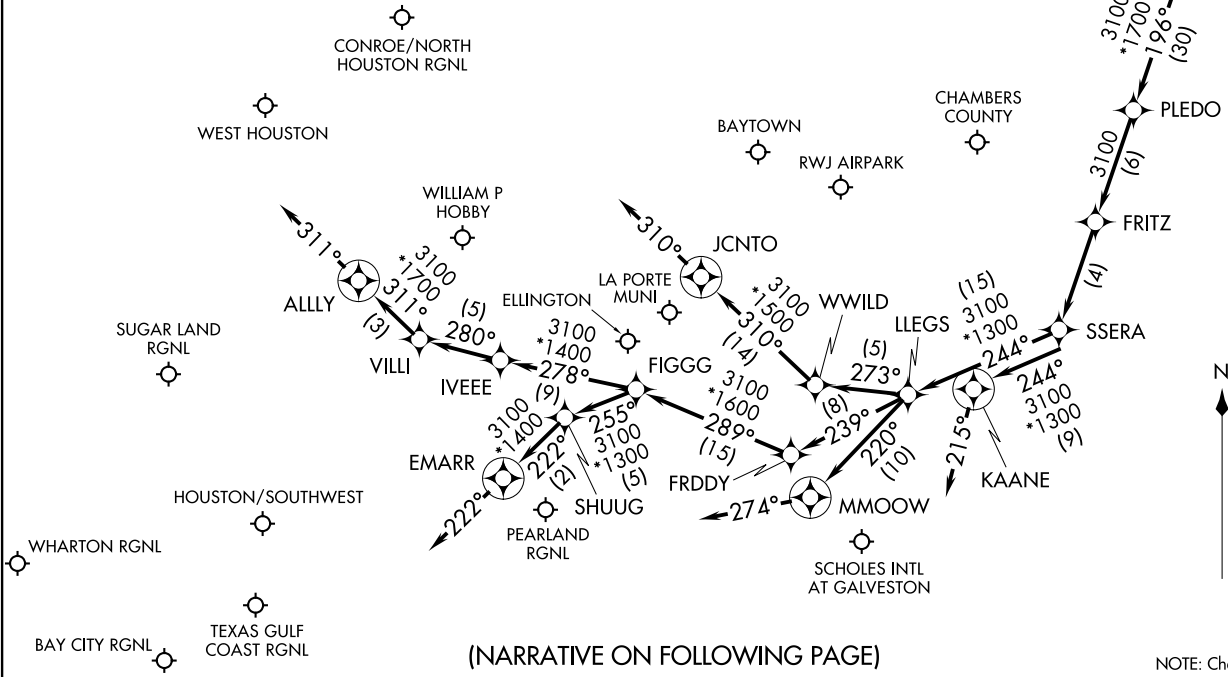
Expect 11000

HOUSTON APP CON
121.3 377.1
CXO ATIS
118.325
EFD ATIS
135.575 269.9
HOU D-ATIS
124.6
SGR ATIS *
118.125

(CESAN, CESAN4) 23222
CESAN FOUR ARRIVAL (RNAV)

AL-198 (FAA)

HOUSTON, TEXAS



(NARRATIVE ON FOLLOWING PAGE)

CESAN FOUR ARRIVAL (RNAV)

ARRIVAL ROUTE DESCRIPTION

From CESAN on track 185° to CREPO, then on track 196° to PLEDO.

LANDING HOU RWYS 13L/R: From PLEDO on track 196° to FRITZ, then on track 196° to SSERA, then on track 244° to LLEGS, then on track 239° to FRDDY, then on track 289° to FIGGG, then on track 278° to IVEEE, then on track 280° to VILLI, then on track 311° to ALLY, then on track 311°. Expect vectors to final approach course.

LANDING HOU RWY 4: From PLEDO on track 196° to FRITZ, then on track 196° to SSERA, then on track 244° to LLEGS, then on track 239° to FRDDY, then on track 289° to FIGGG, then on track 255° to SHUUG, then on track 222° to EMARR, then on track 222°. Expect vectors to approach course.

LANDING HOU RWY 22: From PLEDO on track 196° to FRITZ, then on track 196° to SSERA, then on track 244° to LLEGS, then on track 273° to WWILD, then on track 310° to JCNT0, then on track 310°. Expect vectors to final approach course.

LANDING HOU RWYS 31L/R: From PLEDO on track 196° to FRITZ, then on track 196° to SSERA, then on track 244° to LLEGS, then on track 220° to MMOOW, then on track 274°. Expect vectors to final approach course.

ALL OTHER AIRPORTS: From CESAN on track 185° to CREPO, then on track 196° to PLEDO, then on track 196° to FRITZ, then on track 196° to SSERA, then on track 244° to KAANE, then on track 215°. Expect vectors to final approach course.

SC-5, 22 FEB 2024 to 21 MAR 2024

SC-5, 22 FEB 2024 to 21 MAR 2024

HUDZY FOUR ARRIVAL
(HUDZY, HUDZY4) 100CT19

HUDZY FOUR ARRIVAL
(HUDZY, HUDZY4) 23054

AL-198 (FAA)

HOUSTON, TEXAS

HOUSTON APP CON
120.05 379.1
CXO ATIS
118.325
DWH ATIS
128.375
EFD ATIS
135.575 269.9
HOU D-ATIS
124.6
IAH D-ATIS
124.05
SGR ATIS *
118.125
TME ATIS
119.525

LUFKIN
112.1 LFK
Chan 58

SAWMILL
113.75 SWB
Chan 84 (Y)
N31°58.39-W92°40.63'
L-22, H-6

WAPPL
N30°13.91'
W94°19.84'
**VERTICAL NAVIGATION
PLANNING INFORMATION**

BRWCK
N30°35.23'
W93°42.36'

ALEXANDRIA
116.1 AEX
Chan 108
N31°15.40-W92°30.06'
L-21-22, H-6

CONROE/NORTH
HOUSTON RGNL

HUMBLE
116.6 IAH
Chan 113

CLEVELAND MUNI

CLWSN
N30°04.42'
W94°55.13'

SWWAA
N30°00.52'
W95°09.42'

DAVID WAYNE HOOKS MEML

GEORGE BUSH
INTCNTL/HOUSTON

WEST HOUSTON

HOUSTON EXEC

LIBERTY MUNI
HUDZY
N30°06.21'
W94°48.53'
TURBOJET:
Expect 14000 280K

LAKE CHARLES
113.4 LCH
Chan 81

CHAMBERS
COUNTY

SABINE PASS
115.4 SBI
Chan 101



HOUSTON, TEXAS

SUGAR LAND RGNL

HOUSTON/SOUTHWEST

TEXAS GULF
COAST RGNL

WILLIAM P
HOBBY

PEARLAND
RGNL

LA PORTE MUNI

ELLINGTON

SCHOLES INTL
AT GALVESTON

TRINITY
114.75 MHF
Chan 94(Y)

- NOTE: RADAR required.
- NOTE: For use by Turbojet and Turboprop aircraft capable of 280K or greater only.
- NOTE: DME/DME/IRU or GPS equipped aircraft must file the WAPPL (RNAV) STAR.
- NOTE: ATC assigned only for aircraft landing CXO, DWH, IAH, T78, and 6R3.

(NARRATIVE ON FOLLOWING PAGE) NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

ALEXANDRIA TRANSITION (AEX.HUDZY4): From over AEX VORTAC on AEX R-235 to WAPPL, then on IAH R-067 to HUDZY. Thence. . . .

SAWMILL TRANSITION (SWB.HUDZY4): From over SWB VOR/DME on SWB R-211 to BRWCK, then on AEX R-235 to WAPPL, then on IAH R-067 to HUDZY. Thence. . . .

. . . .from over HUDZY on IAH R-067 to CLWSN, then on IAH R-067 to SWWAA, then on heading 190°. Expect RADAR vectors to final approach course.

SC-5, 22 FEB 2024 to 21 MAR 2024

SC-5, 22 FEB 2024 to 21 MAR 2024

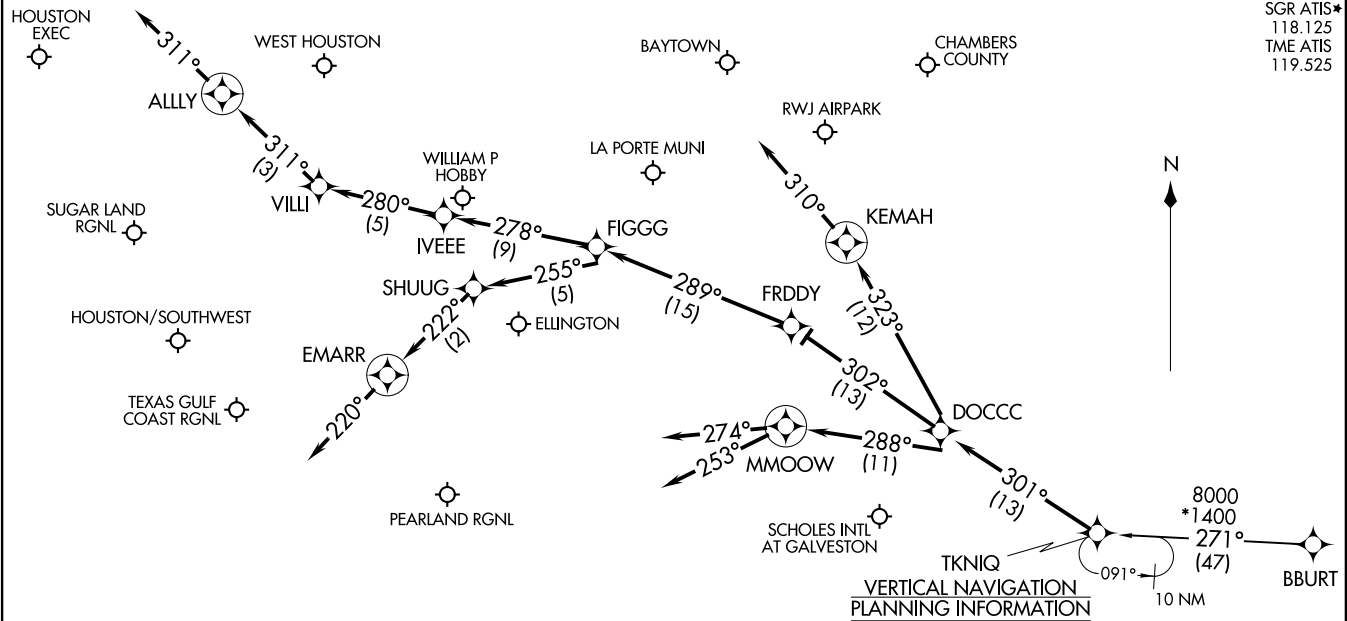
RNAV 1- DME/DME/IRU or GPS.
RADAR required.

HOUSTON APP CON
119.625 226.675
EFD ATIS
135.575 269.9
HOU D-ATIS
124.6
SGR ATIS*
118.125
TME ATIS
119.525

TKNIQ THREE ARRIVAL (RNAV)
(TKNIQ.TKNIQ3) 07OCT21

TKNIQ THREE ARRIVAL (RNAV)
(TKNIQ.TKNIQ3) 21336

AI-198 (FAA)



NOTE: Turbojet and turboprop aircraft only.
NOTE: ATC assigned only for aircraft landing HOU.

VERTICAL NAVIGATION
PLANNING INFORMATION
HOU TURBOJETS: Expect 12000 250K
SOUTH SATELLITE TURBOJETS: Expect 12000 280K

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

HOUSTON, TEXAS

HOUSTON, TEXAS

ARRIVAL ROUTE DESCRIPTION

BBURT TRANSITION (BBURT.TKNIQ3)

From TKNIQ on track 301° to DOCCC.

LANDING HOU RUNWAY 4: From DOCCC on track 302° to FRDDY, then on track 289° to FIGGG, then on track 255° to SHUUG, then on track 222° to EMARR, then on track 220°. Expect RADAR vectors to final approach course.

LANDING HOU RUNWAYS 13L/R: From DOCCC on track 302° to FRDDY, then on track 289° to FIGGG, then on track 278° to IVEEE, then on track 280° to VILLI, then on track 311° to ALLY, then on track 311°. Expect RADAR vectors to final approach course.

LANDING HOU RUNWAY 22: From DOCCC on track 323° to KEMAH, then on track 310°. Expect RADAR vectors to final approach course.

LANDING HOU RUNWAYS 31L/R: From DOCCC on track 288° to MMOOW, then on track 274°. Expect RADAR vectors to final approach course.

LANDING AXH, EFD, GLS, HPY, IWS, LBX, LVJ, SGR, TME, TØØ, T41, 54T:
From DOCCC on track 288° to MMOOW, then on track 253°. Expect RADAR vectors to final approach course.

SC-5, 22 FEB 2024 to 21 MAR 2024

SC-5, 22 FEB 2024 to 21 MAR 2024

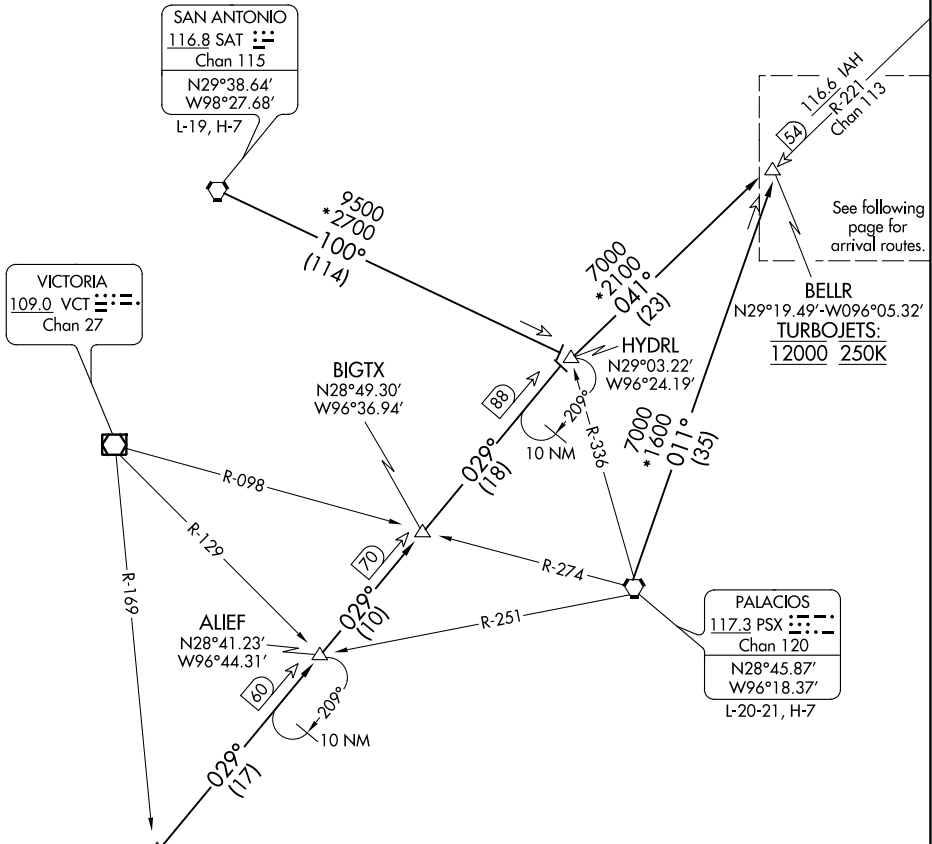
TSHRT TWO ARRIVAL

Transition Routes

HOUSTON, TEXAS

HOUSTON APP CON
 119.175 291.675
 EFD ATIS
 135.575 269.9
 HOU D-ATIS
 124.6
 SGR ATIS *
 118.125
 TME ATIS
 119.525

NOTE: RADAR required.
 NOTE: DME/DME/IRU or GPS equipped turbojet and turboprop aircraft landing HOU must file the BELLR (RNAV) STAR.
 NOTE: DME required.
 NOTE: DME required for holding at HYDRL.



See following page for arrival routes.

BELLR
 N29°19.49'-W096°05.32'
 TURBOJET:
 12000 250K

PALACIOS
 117.3 PSX
 Chan 120
 N28°45.87'
 W96°18.37'
 L-20-21, H-7

SC-5, 22 FEB 2024 to 21 MAR 2024

SC-5, 22 FEB 2024 to 21 MAR 2024

NOTE: Chart not to scale. (CONTINUED ON FOLLOWING PAGE)

CORPUS CHRISTI TRANSITION (CRP.TSHRT2): From over CRP VORTAC on CRP R-029 to HYDRL, then on IAH R-221 to BELLR. Thence

PALACIOS TRANSITION (PSX.TSHRT2): From over PSX VORTAC on PSX R-011 to BELLR. Thence

SAN ANTONIO TRANSITION (SAT.TSHRT2): From over SAT VORTAC on SAT R-100 to HYDRL, then on IAH R-221 to BELLR. Thence

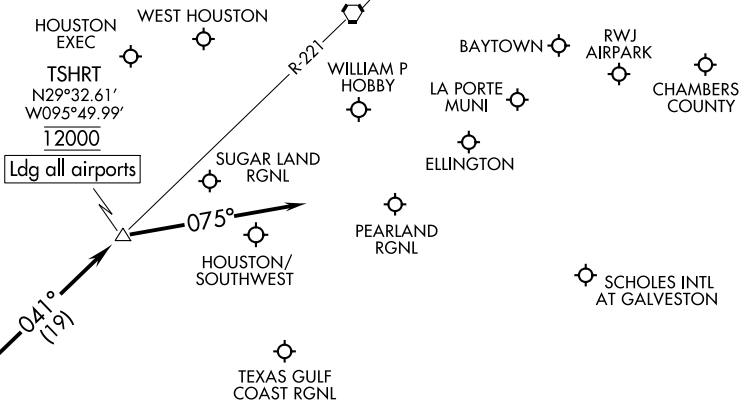
TSHRT TWO ARRIVAL

Transition Routes

HOUSTON, TEXAS

HOUSTON APP CON
 119.175 291.675
 EFD ATIS
 135.575 269.9
 HOU D-ATIS
 124.6
 SGR ATIS ★
 118.125
 TME ATIS
 119.525

HUMBLE
 116.6 IAH ☼☼☼☼
 Chan 113



Ldg all airports

TSHRT
 N29°32.61'
 W095°49.99'
 12000

041°
 (19)

075°

BELLR
 N29°19.49'-W096°05.32'
 TURBOJETS:
 12000 250K

NOTE: RADAR required.
 NOTE: DME/DME/IRU or GPS equipped turbojet and turboprop aircraft landing HOU must file the BELLR (RNAV) STAR.
 NOTE: DME required.

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

... from over BELLR on IAH R-221 to cross TSHRT at 12000. From TSHRT fly heading 075° for vectors to final approach course.

SC-5, 22 FEB 2024 to 21 MAR 2024

SC-5, 22 FEB 2024 to 21 MAR 2024

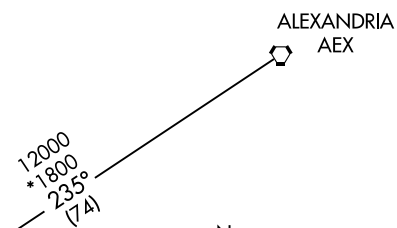
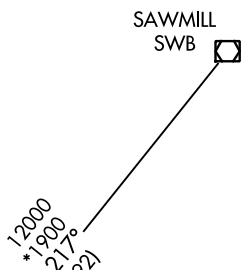
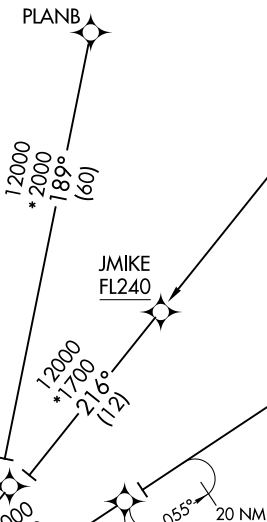
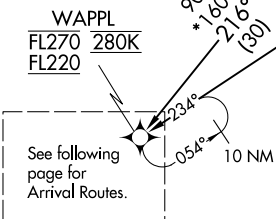
(WAPPL.WAPPL6) 070CT21

WAPPL SIX ARRIVAL (RNAV) Transition Routes

HOUSTON, TEXAS

HOUSTON APP CON
120.05 379.1
EFD ATIS
135.575 269.9
HOU D-ATIS
124.6
SGR ATIS ★
118.125
TME ATIS
119.525

- NOTE: Expect runway assignment from Houston TRACON upon initial contact.
- NOTE: For turbojet and turboprop aircraft capable of 280K or greater only.
- NOTE: Turbojet aircraft descend via MACH number until intercepting 280K. Maintain 280K until slowed by the STAR.
- NOTE: ZEBBB TRANSITION ATC assigned only.
- NOTE: Except for aircraft departing SHV, PLANB TRANSITION is ATC assigned only. Do not file.



(CONTINUED ON FOLLOWING PAGES)

- ALEXANDRIA TRANSITION (AEX.WAPPL6)
- PLANB TRANSITION (PLANB.WAPPL6)
- SAWMILL TRANSITION (SWB.WAPPL6)
- ZEBBB TRANSITION (ZEBBB.WAPPL6)

NOTE: Chart not to scale.

RNAV 1 - DME/DME/IRU or GPS.
RADAR required.

(WAPPL.WAPPL6) 21280

AL-198 (FAA)

HOUSTON, TEXAS

WAPPL WAPPL6] 07OCT21

WAPPL SIX ARRIVAL (RNAV) Arrival Routes

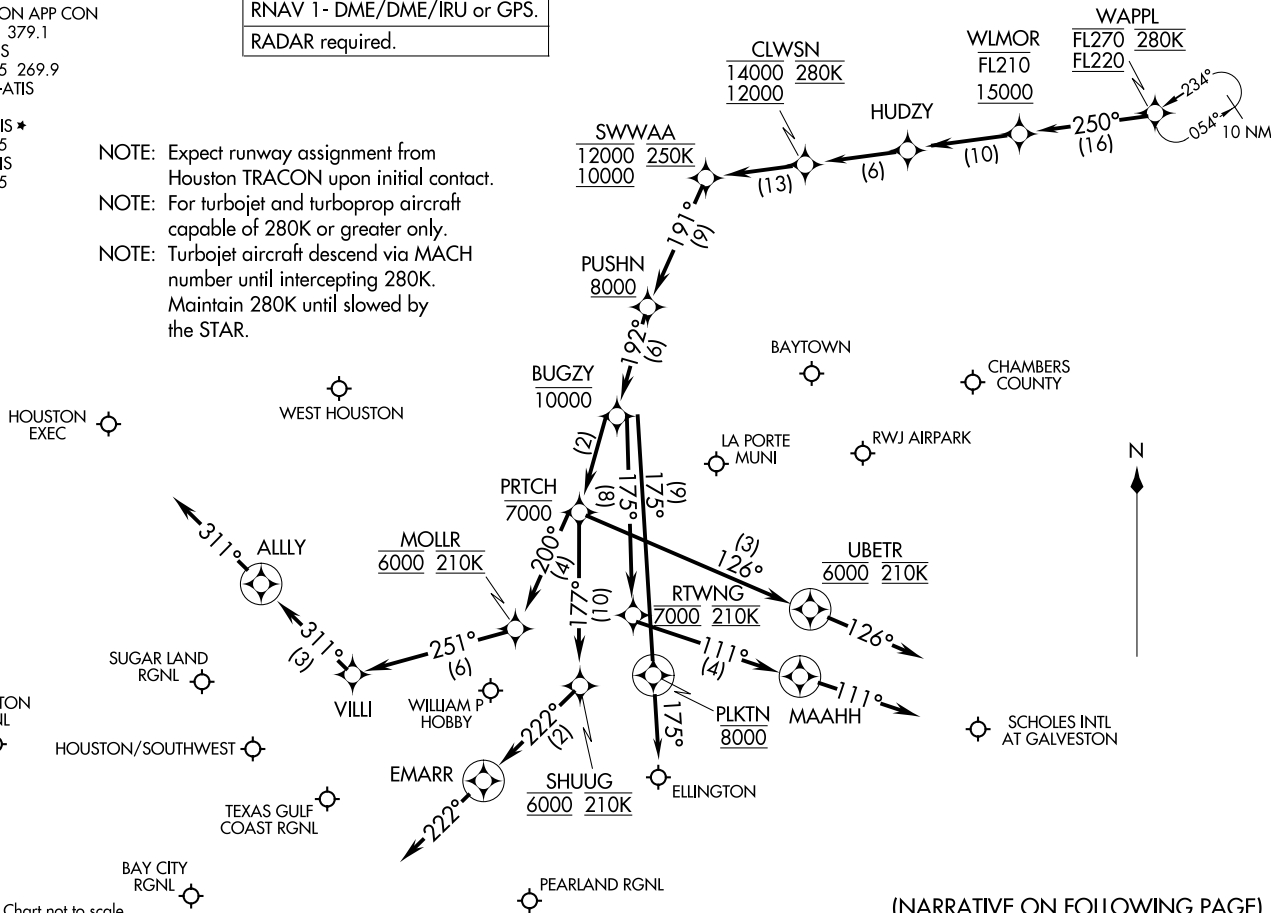
HOUSTON, TEXAS

HOUSTON APP CON
120.05 379.1
EFD ATIS
135.575 269.9
HOU D-ATIS
124.6
SGR ATIS *
118.125
TME ATIS
119.525

RNAV 1 - DME/DME/IRU or GPS.
RADAR required.

- NOTE: Expect runway assignment from Houston TRACON upon initial contact.
- NOTE: For turbojet and turboprop aircraft capable of 280K or greater only.
- NOTE: Turbojet aircraft descend via MACH number until intercepting 280K. Maintain 280K until slowed by the STAR.

NOTE: Chart not to scale.



(NARRATIVE ON FOLLOWING PAGE)

WAPPL WAPPL6] 23054

AL1-198 (FAA)

HOUSTON, TEXAS

ARRIVAL ROUTE DESCRIPTION

From WAPPL on track 250° to cross WLMOR between 15000 and FL210, then on track 250° to HUDZY, then on track 250° to cross CLWSN between 12000 and 14000 and at 280K, then on track 250° to cross SWWAA between 10000 and 12000 and at 250K, then on track 191° to cross PUSHN at or above 8000.

LANDING HOU RUNWAY 4: From PUSHN on track 192° to cross BUGZY at or below 10000, then on track 192° to cross PRITCH at or below 7000, then on track 177° to cross SHUUG at 6000 and at 210K, then on track 222° to EMARR, then on track 222°. Expect RADAR vectors to final approach course.

LANDING HOU RUNWAYS 13L/R: From PUSHN on track 192° to cross BUGZY at or below 10000, then on track 192° to cross PRITCH at or below 7000, then on track 200° to cross MOLLR at 6000 and at 210K, then on track 251° to VILLI, then on track 311° to ALLY, then on track 311°. Expect RADAR vectors to final approach course.

LANDING HOU RUNWAY 22: From PUSHN on track 192° to cross BUGZY at or below 10000, then on track 175° to cross RTWNG at 7000 and at 210K, then on track 111° to MAAHH, then on track 111°. Expect RADAR vectors to final approach course.

LANDING HOU RUNWAYS 31L/R: From PUSHN on track 192° to cross BUGZY at or below 10000, then on track 192° to cross PRITCH at or below 7000, then on track 126° to cross UBETR at 6000 and at 210K, then on track 126°. Expect RADAR vectors to final approach course.

LANDING GLS, TME, AXH, HPY, T41, 54T, T00, SGR, ARM, BYY, LBX, LVJ, IWS, EFD: From WAPPL on track 250° to cross WLMOR between 15000 and FL210, then on track 250° to HUDZY, then on track 250° to cross CLWSN between 12000 and 14000 and at 280K, then on track 250° to cross SWWAA between 10000 and 12000 and at 250K, then on track 191° to cross PUSHN at or above 8000, then on track 192° to cross BUGZY at or below 10000, then on track 175° to cross PLKTN at 8000, then on track 175°. Expect RADAR vectors to final approach course.

SC-5, 22 FEB 2024 to 21 MAR 2024

SC-5, 22 FEB 2024 to 21 MAR 2024

OHIO FOUR ARRIVAL
(OHIO.OHIO4) 22JUN17

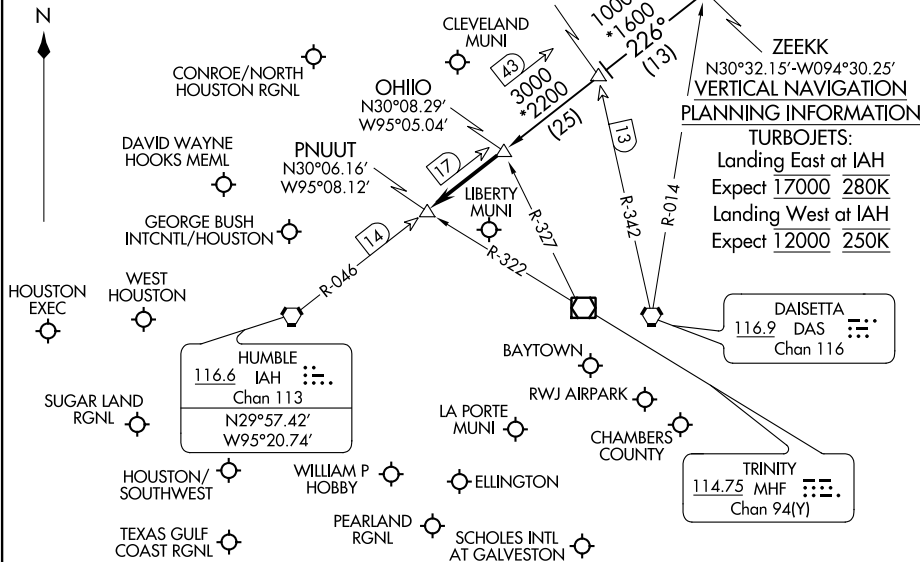
OHIO FOUR ARRIVAL
(OHIO.OHIO4) 23222

HOUSTON APP CON
120.05 379.1
CXO ATIS
118.325
DWH ATIS
128.375
EFD ATIS
135.575 269.9
HOU D-ATIS
124.6
IAH D-ATIS
124.05
SGR ATIS*
118.125
TME ATIS
119.525

NOTE: DME/DME/IRU or GPS equipped turbojet aircraft landing IAH must file the GESNR/ZEEKK or DOOBI/SKNRD (RNAV) STAR.

NOTE: ATC assigned only for airports other than KIAH, KDWH and KCXO, T78 and 6R3.

NOTE: Chart not to scale.



ARRIVAL ROUTE DESCRIPTION

ALEXANDRIA TRANSITION (AEX.OHIO4):
From over AEX VORTAC via AEX R-251 to LYMBO INT, then on IAH R-046 to OHIO INT. Thence . . .

LUFKIN TRANSITION (LFK.OHIO4):
From over LFK VORTAC on LFK R-159 to ZEEKK INT, then on IAH R-046 to OHIO INT. Thence . . .

GEORGE BUSH INTCNL AIRPORT /HOUSTON (IAH):
. . . from OHIO INT on IAH R-046 to PNUUT. Thence . . .
LANDING RUNWAYS 8L/R or 9:
. . . fly heading 265° for vectors to final approach course.

LANDING ALL OTHER RUNWAYS:
. . . expect vectors to final approach course at or prior to PNUUT.

FOR ALL OTHER AIRPORTS:
. . . from OHIO INT on IAH R-046 to PNUUT. Expect vectors to final approach course at or prior to PNUUT.

PLANNING INFORMATION

TURBOJETS:
Landing East at IAH
Expect 17000 280K
Landing West at IAH
Expect 12000 250K

DAISETTA
116.9 DAS
Chan 116

TRINITY
114.75 MHF
Chan 94(Y)

AL-5461 (FAA)

HOUSTON, TEXAS

HOUSTON, TEXAS