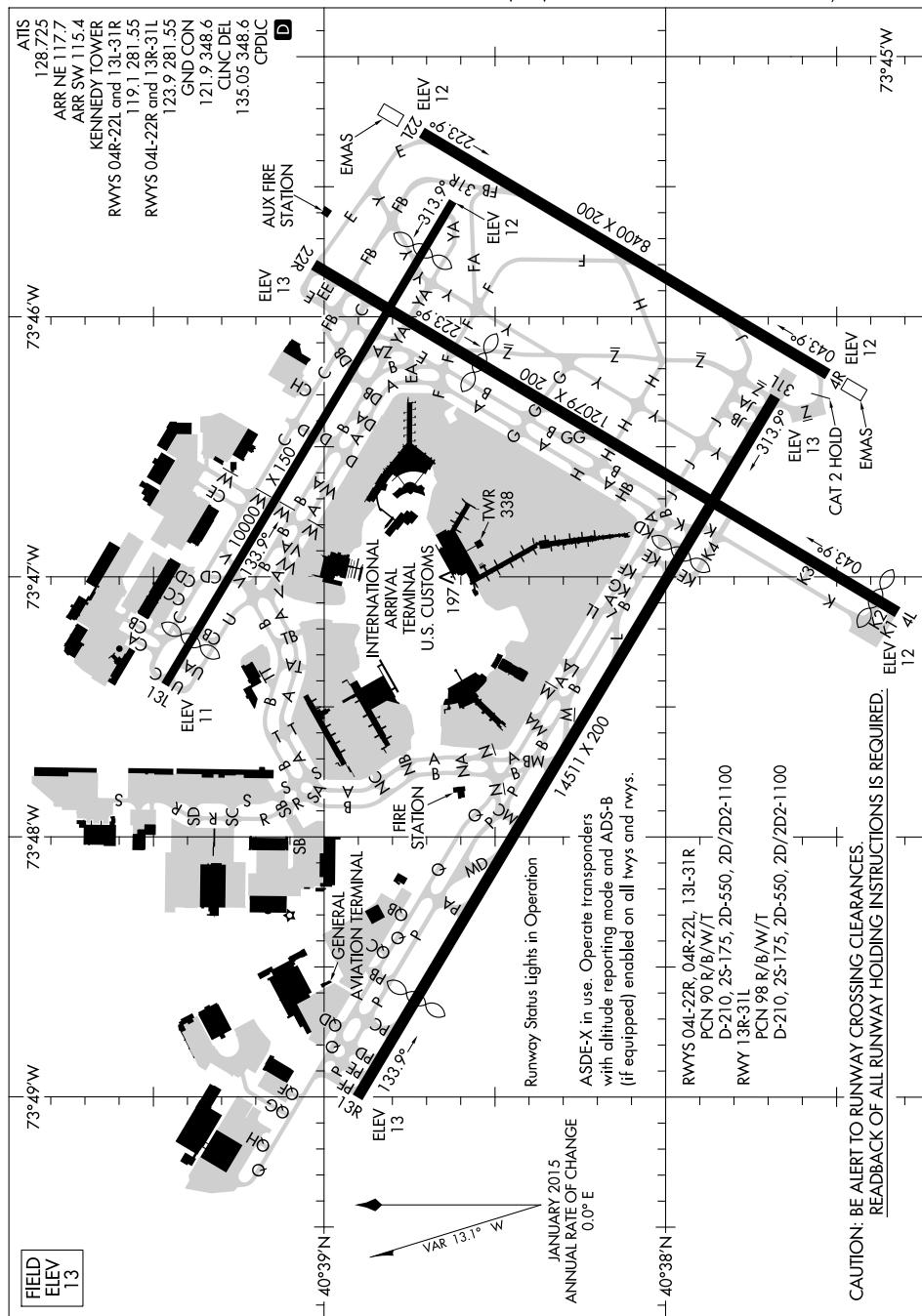


16091

AIRPORT DIAGRAM

AI-610 (FAA)

JOHN F. KENNEDY INTL (JFK)
NEW YORK, NEW YORK

AIRPORT DIAGRAM

16091

NEW YORK, NEW YORK
JOHN F. KENNEDY INTL (JFK)

NE-2, 13 OCT 2016 to 10 NOV 2016

BETTE FOUR DEPARTURE (BETTE4.BETTE) 15OCT15

ATIS
128.725
CLNC DEL
135.05 348.6
CPDLC
NEW YORK DEP CON
135.9 353.750

**TOP ALTITUDE:
5000**



TAKEOFF MINIMUMS
Rwy 4L/R, 13L/R, 22L/R, 31L/R: Standard.

NOTE: RADAR required.

* NOTE: DME required. To be assigned during the period 2200-0700 local.

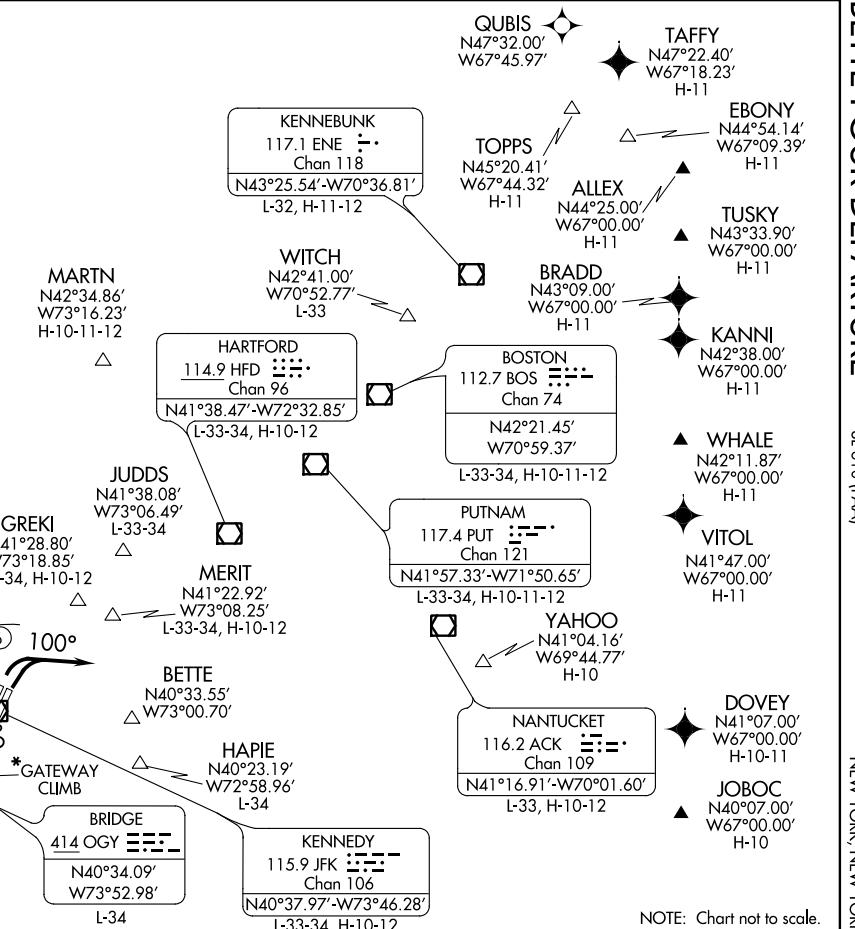
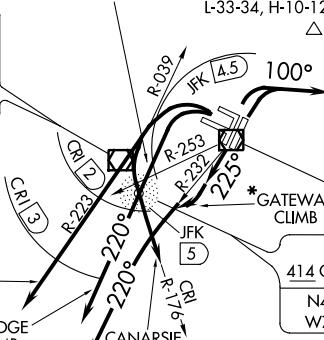
NOTE: ADF required.

(NOTES CONTINUED ON FOLLOWING PAGE)
(NARRATIVE ON FOLLOWING PAGE)

Cross JFK R-253
at or above 2500
maintain 5000

CANARSIE
112.3 CRI Chan 70
N40°36.75' W73°53.67'
L-33-34

BREEZY POINT CLIMB
#BRIDGE CLIMB
CANARSIE CLIMB



NOTE: Chart not to scale.

▼

DEPARTURE ROUTE DESCRIPTION

TAKEOF^N RUNWAYS 4L/R: Climbing right turn heading 100°, thence

TAKEOF^N RUNWAYS 13L/R: Climb on assigned heading, thence

TAKEOF^N RUNWAYS 22L/R: Climb heading 225°, thence

* GATEWAY CLIMB: Climbing right turn to intercept the JFK R-232 until 5 DME, then turn left heading 220°, thence

TAKEOF^N RUNWAYS 31L/R:

BREEZY POINT CLIMB: Climbing left turn direct CRI VOR/DME. Make turn east of CRI R-039 (remain within JFK 4.5 DME), then via CRI R-223. Cross CRI 3 DME or JFK R-253 at or above 2500, thence

BRIDGE CLIMB: Climbing left turn direct OGY NDB, then on heading 220° after OGY NDB. Make turn east of CRI R-039 (remain within JFK 4.5 DME). Cross JFK R-253 at or above 2500, thence

CANARSIE CLIMB: Climbing left turn direct CRI VOR/DME. Make turn east of CRI R-039 (remain within JFK 4.5 DME), then via CRI R-176. Cross CRI 2 DME or JFK R-253 at or above 2500, thence

. . . . via RADAR vectors to BETTE, maintain 5000. Expect clearance to filed altitude/flight level ten (10) minutes after departure.

(CONTINUED ON FOLLOWING PAGE)

(NOTES CONTINUED)

TAKEOFF OBSTACLE NOTES

- Rwy 4L: Fence and light poles beginning 94' from DER, 466' right of centerline, up to 7' AGL/22' MSL.
 Localizer 204' from DER, on centerline, 6' AGL/21' MSL.
 Tower, light poles, utility poles, fence, and building beginning 212' from DER, left and right of centerline, up to 15' AGL/28' MSL.
 Trees beginning 400' from DER, 765' right of centerline, up to 79' AGL/92' MSL.
 Trees beginning 77' from DER, 655' left of centerline, up to 74' AGL/87' MSL.
- Rwy 4R: Lights beginning 6' from DER, 4' right of centerline, up to 2' AGL/13' MSL.
 Lights beginning 6' from DER, 5' left of centerline, up to 2' AGL/13' MSL.
 Lights 10' from DER, on centerline, 2' AGL/13' MSL.
 Trees beginning 493' from DER, 468' right of centerline, up to 34' AGL/48' MSL.
 Trees beginning 1757' from DER, 626' right of centerline, up to 57' AGL/66' MSL.
 Trees beginning 1274' from DER, 477' left of centerline, up to 73' AGL/76' MSL.
- Rwy 13L: Sign and lights beginning 2' from DER, 2' right of centerline, up to 3' AGL/14' MSL.
 Lights 11' from DER, on centerline, 2' AGL/13' MSL.
 Sign, electrical equipment, and lights beginning 11' from DER, 3' left of centerline, up to 3' AGL/14' MSL.
 Pole and sign beginning 254' from DER, 523' right of centerline, up to 9' AGL/20' MSL.
 Rod 1119' from DER, 140' left of centerline, 39' AGL/58' MSL.
 Trees beginning 1774' from DER, 1' right of centerline, up to 72' AGL/91' MSL.
- Rwy 13R: Lights beginning 4' from DER, 40' right of centerline, up to 3' AGL/14' MSL.
 Lights beginning 4' from DER, 15' left of centerline, up to 3' AGL/14' MSL.
 Buildings, tower, and glideslope antenna beginning 418' from DER, 404' left of centerline, up to 39' AGL/58' MSL.
 Transmission towers beginning 4749' from DER, 1385' right of centerline, up to 139' AGL/140' MSL.
- Rwy 22L: Lights beginning 3' from DER, 4' left of centerline, up to 2' AGL/13' MSL.
 Lights beginning 4' from DER, 5' right of centerline, up to 2' AGL/13' MSL.
 Lights 5' from DER, on centerline, 2' AGL/13' MSL.
 Trees beginning 433' from DER, 578' left of centerline, up to 27' AGL/31' MSL.
- Rwy 22R: Lights beginning abeam DER, 55' right of centerline, up to 2' AGL/13' MSL.
 Fence, lights, and bushes beginning abeam DER, 54' left of centerline, up to 8' AGL/19' MSL.
- Rwy 31L: Lights beginning 9' from DER, 80' right of centerline, up to 3' AGL/14' MSL.
 Lights beginning 10' from DER, 80' left of centerline, up to 2' AGL/13' MSL.
 Trees 2075' from DER, 435' left of centerline, up to 87' AGL/91' MSL.
- Rwy 31R: Lights beginning 8' from DER, 3' left of centerline, up to 2' AGL/13' MSL.
 Lights 10' from DER, on centerline, 2' AGL/13' MSL.
 Lights beginning 10' from DER, 3' right of centerline, up to 2' AGL/13' MSL.
 Electrical system, electrical box, and lights beginning 101' from DER, on centerline, and left and right of centerline, up to 7' AGL/18' MSL.
 Approach lights beginning 200' from DER, on centerline, up to 9' AGL/27' MSL.
 Fences, lights, and poles beginning 146' from DER, 115' left of centerline, up to 19' AGL/30' MSL.
 Lights and trees beginning 553' from DER, 191' right of centerline, up to 34' AGL/48' MSL.
 Lights and poles beginning 1443' from DER, 334' left of centerline, up to 55' AGL/67' MSL.
 Pole 2162' from DER, 562' right of centerline, 54' AGL/66' MSL.
 Antenna 3916' from DER, 1550' right of centerline, 111' AGL/130' MSL.

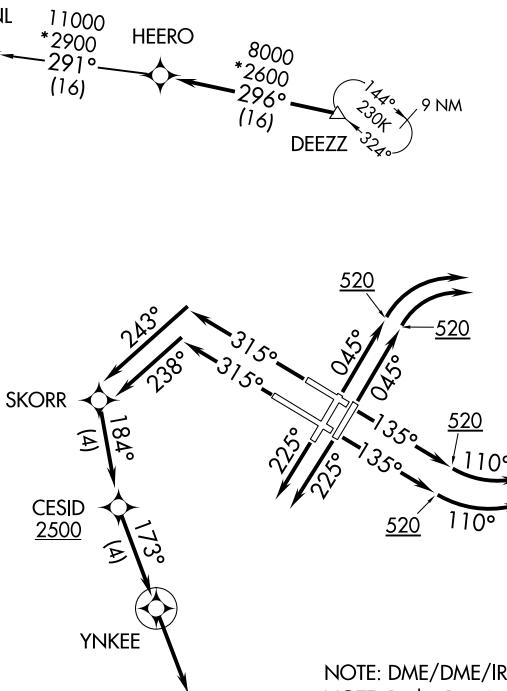
TOP ALTITUDE:
5000

N

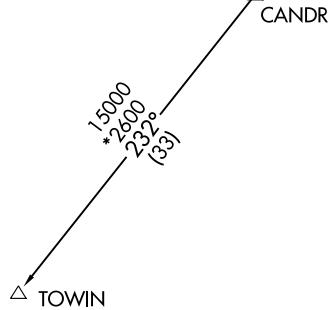


NOTE: DME/DME/IRU or GPS required.
NOTE: Radar Required.
NOTE: RNAV 1.
NOTE: TOWIN transition ATC assigned only.

NOTE: Chart not to scale.



ATIS
128.725
CLNC DEL
135.05 348.6
CPLDC
GND CON
121.9 348.6
KENNEDY TOWER
Rwy 4R/22L and 13L/31R
119.1 281.55
Rwy 4L/22R and 13R/31L
123.9 281.55
NEW YORK DEP CON
135.9 353.75



TAKEOFF MINIMUMS

Rwys 4L/R, 13L, 22L/R: Standard.

Rwy 13R: 300-1½ or Standard with minimum climb of 250' per NM to 300.

Rwys 31L/R: Standard with minimum climb of 500' per NM to 1400.

(NOTES CONTINUED ON FOLLOWING PAGE)
(NARRATIVE ON FOLLOWING PAGE)

DEEZZ FOUR DEPARTURE (RNAV)
(DEEZZ4,DEEZZ) 15OCT15

JOHN F KENNEDY INTL (JFK)
NEW YORK, NEW YORK

DEEZZ FOUR DEPARTURE (RNAV)JOHN F KENNEDY INTL (JFK)
NEW YORK, NEW YORK**DEPARTURE ROUTE DESCRIPTION**

TAKEOFF RWYS 4L/R: Climb heading 045° to 520, then climbing right turn heading 100° or as assigned by ATC, thence . . .

TAKEOFF RWYS 13L/R: Climb heading 135° to 520, then climbing left turn heading 110° or as assigned by ATC, thence . . .

TAKEOFF RWYS 22L/R: Climb heading 225° or as assigned by ATC, thence . . .

TAKEOFF RWY 31L: Climb heading 315° to intercept course 238° to SKORR, then on track 184° to cross CESID at or above 2500, then on track 173° to YNKEE, then on track 173° or as assigned by ATC, thence . . .

TAKEOFF RWY 31R: Climb heading 315° to intercept course 243° to SKORR, then on track 184° to cross CESID at or above 2500, then on track 173° to YNKEE, then on track 173° or as assigned by ATC, thence . . .

. . . expect vectors to DEEZZ, then on track 296° to HEERO. Maintain 5000. Expect clearance to filed altitude/flight level within ten (10) minutes after departure.

CANDR TRANSITION (DEEZZ4.CANDR)**TOWIN TRANSITION (DEEZZ4.TOWIN)****TAKEOFF OBSTACLE NOTES**

Rwy 4L: Fence and light poles beginning 94' from DER, 466' right of centerline, up to 7' AGL/22' MSL. Localizer 204' from DER, on centerline, 6' AGL/21' MSL. Tower, light poles, utility poles, fence, and bldg beginning 212' from DER, left and right of centerline, up to 15' AGL/28' MSL. Trees beginning 400' from DER, 765' right of centerline, up to 79' AGL/92' MSL. Trees beginning 77' from DER, 655' left of centerline, up to 74' AGL/87' MSL.

Rwy 4R: Lights beginning 6' from DER, 4' right of centerline, up to 2' AGL/13' MSL. Lights beginning 6' from DER, 5' left of centerline, up to 2' AGL/13' MSL. Lights 10' from DER, on centerline, 2' AGL/13' MSL. Trees beginning 493' from DER, 468' right of centerline, up to 34' AGL/48' MSL. Trees beginning 1757' from DER, 626' right of centerline, up to 57' AGL/66' MSL. Trees beginning 1274' from DER, 477' left of centerline, up to 73' AGL/76' MSL.

Rwy 13L: Sign and lights beginning 2' from DER, 2' right of centerline, up to 3' AGL/14' MSL. Lights 11' from DER, on centerline, 2' AGL/13' MSL. Sign, electrical equipment, and lights beginning 11' from DER, 3' left of centerline, up to 3' AGL/14' MSL. Pole and sign beginning 254' from DER, 523' right of centerline, up to 9' AGL/20' MSL. Rod 1119' from DER, 140' left of centerline, 39' AGL/58' MSL. Trees beginning 1774' from DER, 1' right of centerline, up to 72' AGL/91' MSL.

Rwy 13R: Lights beginning 4' from DER, 40' right of centerline, up to 3' AGL/14' MSL. Lights beginning 4' from DER, 15' left of centerline, up to 3' AGL/14' MSL. Buildings, tower, and glideslope antenna beginning 418' from DER, 404' left of centerline, up to 39' AGL/58' MSL. Transmission towers beginning 4749' from DER, 1385' right of centerline, up to 139' AGL/140' MSL.

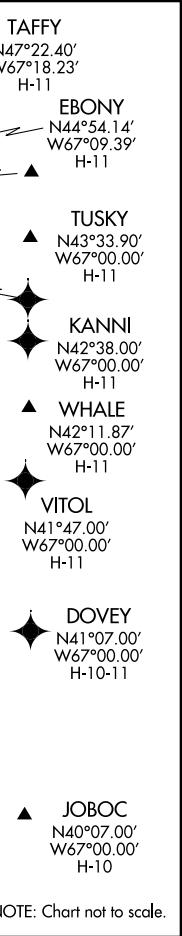
Rwy 22L: Lights beginning 3' from DER, 4' left of centerline, up to 2' AGL/13' MSL. Lights beginning 4' from DER, 5' right of centerline, up to 2' AGL/13' MSL. Lights 5' from DER, on centerline, 2' AGL/13' MSL. Trees beginning 433' from DER, 578' left of centerline, up to 27' AGL/31' MSL.

Rwy 22R: Lights beginning abeam DER, 55' right of centerline, up to 2' AGL/13' MSL. Fence, lights, and bushes beginning abeam DER, 54' left of centerline, up to 8' AGL/19' MSL.

Rwy 31L: Lights beginning 9' from DER, 80' right of centerline, up to 3' AGL/14' MSL. Lights beginning 10' from DER, 80' left of centerline, up to 2' AGL/13' MSL. Trees 2075' from DER, 435' left of centerline, up to 87' AGL/91' MSL.

Rwy 31R: Lights beginning 8' from DER, 3' left of centerline, up to 2' AGL/13' MSL. Lights 10' from DER, on centerline, 2' AGL/13' MSL. Lights beginning 10' from DER, 3' right of centerline, up to 2' AGL/13' MSL. Electrical system, electrical box, and lights beginning 101' from DER, on centerline, and left and right of centerline, up to 7' AGL/18' MSL. Approach lights beginning 200' from DER, on centerline, up to 9' AGL/27' MSL. Fences, lights, and poles beginning 146' from DER, 115' left of centerline, up to 19' AGL/30' MSL. Lights and trees beginning 553' from DER, 191' right of centerline, up to 34' AGL/48' MSL. Lights and poles beginning 1443' from DER, 334' left of centerline, up to 55' AGL/67' MSL. Pole 2162' from DER, 562' right of centerline, 54' AGL/66' MSL.

Antenna 3916' from DER, 1550' right of centerline, 111' AGL/130' MSL.



NOTE: Chart not to scale.

TOP ALTITUDE: 5000

ATIS
128.725
CLNC DEL
135.05 348.6
CPLDC
NEW YORK DEP CON
135.9 353.750

TAKEOFF MINIMUMS

Rwy 4L/R, 13L/R, 22L/R, 31L/R: Standard.

NOTE: RADAR required.

*NOTE: DME required. To be assigned during the period 2200-0700 local.

NOTE: ADF required.

(NOTES CONTINUED ON FOLLOWING PAGE)

(NARRATIVE ON FOLLOWING PAGE)

▼

DEPARTURE ROUTE DESCRIPTION

TAKEOFRUNWAYS 4L/R: Climbing right turn heading 100°, thence**TAKEOF**RUNWAYS 13L/R: Climb on assigned heading, thence**TAKEOF**RUNWAYS 22L/R: Climb heading 225°, thence

* **GATEWAY CLIMB:** Climbing right turn to intercept the JFK R-232 until 5 DME, then turn left heading 220°, thence

TAKEOFRUNWAYS 31L/R:

BREEZY POINT CLIMB: Climbing left turn direct CRI VOR/DME. Make turn east of CRI R-039 (remain within JFK 4.5 DME), then via CRI R-223. Cross CRI 3 DME or JFK R-253 at or above 2500, thence

BRIDGE CLIMB: Climbing left turn direct OGY NDB, then on heading 220° after OGY NDB. Make turn east of CRI R-039 (remain within JFK 4.5 DME). Cross JFK R-253 at or above 2500, thence

CANARSIE CLIMB: Climbing left turn direct CRI VOR/DME. Make turn east of CRI R-039 (remain within JFK 4.5 DME), then via CRI R-176. Cross CRI 2 DME or JFK R-253 at or above 2500, thence

. . . . via RADAR vectors to GREKI, maintain 5000. Expect clearance to filed altitude/flight level ten (10) minutes after departure.

JUDDS TRANSITION (GREKI4.JUDDS): From over GREKI INT to JUDDS INT via CMK R-057.

(CONTINUED ON FOLLOWING PAGE)

(NOTES CONTINUED)

TAKEOFF OBSTACLE NOTES:

- Rwy 4L: Fence and light poles beginning 94' from DER, 466' right of centerline, up to 7' AGL/22' MSL.
 Localizer 204' from DER, on centerline, 6' AGL/21' MSL.
 Tower, light poles, utility poles, fence, and building beginning 212' from DER, left and right of centerline, up to 15' AGL/28' MSL.
 Trees beginning 400' from DER, 765' right of centerline, up to 79' AGL/92' MSL.
 Trees beginning 77' from DER, 655' left of centerline, up to 74' AGL/87' MSL.
- Rwy 4R: Lights beginning 6' from DER, 4' right of centerline, up to 2' AGL/13' MSL.
 Lights beginning 6' from DER, 5' left of centerline, up to 2' AGL/13' MSL.
 Lights 10' from DER, on centerline, 2' AGL/13' MSL.
 Trees beginning 493' from DER, 468' right of centerline, up to 34' AGL/48' MSL.
 Trees beginning 1757' from DER, 626' right of centerline, up to 57' AGL/66' MSL.
 Trees beginning 1274' from DER, 477' left of centerline, up to 73' AGL/76' MSL.
- Rwy 13L: Sign and lights beginning 2' from DER, 2' right of centerline, up to 3' AGL/14' MSL.
 Lights 11' from DER, on centerline, 2' AGL/13' MSL.
 Sign, electrical equipment, and lights beginning 11' from DER, 3' left of centerline, up to 3' AGL/14' MSL.
 Pole and sign beginning 254' from DER, 523' right of centerline, up to 9' AGL/20' MSL.
 Rod 1119' from DER, 140' left of centerline, 39' AGL/58' MSL.
 Trees beginning 1774' from DER, 1' right of centerline, up to 72' AGL/91' MSL.
- Rwy 13R: Lights beginning 4' from DER, 40' right of centerline, up to 3' AGL/14' MSL.
 Lights beginning 4' from DER, 15' left of centerline, up to 3' AGL/14' MSL.
 Buildings, tower, and glideslope antenna beginning 418' from DER, 404' left of centerline, up to 39' AGL/58' MSL.
 Transmission towers beginning 4749' from DER, 1385' right of centerline, up to 139' AGL/140' MSL.
- Rwy 22L: Lights beginning 3' from DER, 4' left of centerline, up to 2' AGL/13' MSL.
 Lights beginning 4' from DER, 5' right of centerline, up to 2' AGL/13' MSL.
 Lights 5' from DER, on centerline, 2' AGL/13' MSL.
 Trees beginning 433' from DER, 578' left of centerline, up to 27' AGL/31' MSL.
- Rwy 22R: Lights beginning abeam DER, 55' right of centerline, up to 2' AGL/13' MSL.
 Fence, lights, and bushes beginning abeam DER, 54' left of centerline, up to 8' AGL/19' MSL.
- Rwy 31L: Lights beginning 9' from DER, 80' right of centerline, up to 3' AGL/14' MSL.
 Lights beginning 10' from DER, 80' left of centerline, up to 2' AGL/13' MSL.
 Trees 2075' from DER, 435' left of centerline, up to 87' AGL/91' MSL.
- Rwy 31R: Lights beginning 8' from DER, 3' left of centerline, up to 2' AGL/13' MSL.
 Lights 10' from DER, on centerline, 2' AGL/13' MSL.
 Lights beginning 10' from DER, 3' right of centerline, up to 2' AGL/13' MSL.
 Electrical system, electrical box, and lights beginning 101' from DER, on centerline, and left and right of centerline, up to 7' AGL/18' MSL.
 Approach lights beginning 200' from DER, on centerline, up to 9' AGL/27' MSL.
 Fences, lights, and poles beginning 146' from DER, 115' left of centerline, up to 19' AGL/30' MSL.
 Lights and trees beginning 553' from DER, 191' right of centerline, up to 34' AGL/48' MSL.
 Lights and poles beginning 1443' from DER, 334' left of centerline, up to 55' AGL/67' MSL.
 Pole 2162' from DER, 562' right of centerline, 54' AGL/66' MSL.
 Antenna 3916' from DER, 1550' right of centerline, 111' AGL/130' MSL.

TOP ALTITUDE: 5000

NE-2, 13 OCT 2016 to 10 NOV 2016

NOTE: Chart not to scale.

HAPE FOUR DEPARTURE (HAPE4, HAPE) 15OCT15

ATIS
128.725
CLNC DEL
135.05 348.6
CPDLC
NEW YORK DEP CON
135.9 353.750

TAKEOFF MINIMUMS:
Rwy 4L/R, 13L/R, 22L/R, 31L/R: Standard.

NOTE: RADAR required.

* NOTE: DME required. To be assigned during the period 2200-0700 local.

NOTE: ADF required.

(NOTES CONTINUED ON FOLLOWING PAGE)
(NARRATIVE ON FOLLOWING PAGE)

Cross JFK R-253
at or above 2500
maintain 5000

CANARSIE
112.3 CRI
Chan 70
N40°36.75'
W73°53.67'
L-33-34

BREEZY POINT
CLIMB

#BRIDGE
CLIMB

CANARSIE
CLIMB

R-233
R-239
R-253
JFK
R-225
220°
202°
100°
*GATEWAY
CLIMB
R-175
L-34

BRIDGE
414 OGY
Chan 34
N40°34.09'
W73°52.98'
L-34

KENNEDY
115.9 JFK
Chan 106
N40°37.97'
W73°46.28'
L-33-34, H-10-12

MARTN
N42°34.86'
W73°16.23'
H-10-11-12





DEPARTURE ROUTE DESCRIPTION

TAKEOF^N RUNWAYS 4L/R: Climbing right turn heading 100°, thence

TAKEOF^N RUNWAYS 13L/R: Climb on assigned heading, thence

TAKEOF^N RUNWAYS 22L/R: Climb heading 225°, thence

* GATEWAY CLIMB: Climbing right turn to intercept the JFK R-232 until 5 DME, then turn left heading 220°, thence

TAKEOF^N RUNWAYS 31L/R:

BREEZY POINT CLIMB: Climbing left turn direct CRI VOR/DME. Make turn east of CRI R-039 (remain within JFK 4.5 DME), then via CRI R-223. Cross CRI 3 DME or JFK R-253 at or above 2500, thence

BRIDGE CLIMB: Climbing left turn direct OGY NDB, then on heading 220° after OGY NDB. Make turn east of CRI R-039 (remain within JFK 4.5 DME). Cross JFK R-253 at or above 2500, thence

CANARSIE CLIMB: Climbing left turn direct CRI VOR/DME. Make turn east of CRI R-039 (remain within JFK 4.5 DME), then via CRI R-176. Cross CRI 2 DME or JFK R-253 at or above 2500, thence

. . . . via RADAR vectors to HAPIE, maintain 5000. Expect clearance to filed altitude/flight level ten (10) minutes after departure.

NE-2, 13 OCT 2016 to 10 NOV 2016

(CONTINUED ON FOLLOWING PAGE)

HAPIE FOUR DEPARTURE

(NOTES CONTINUED)

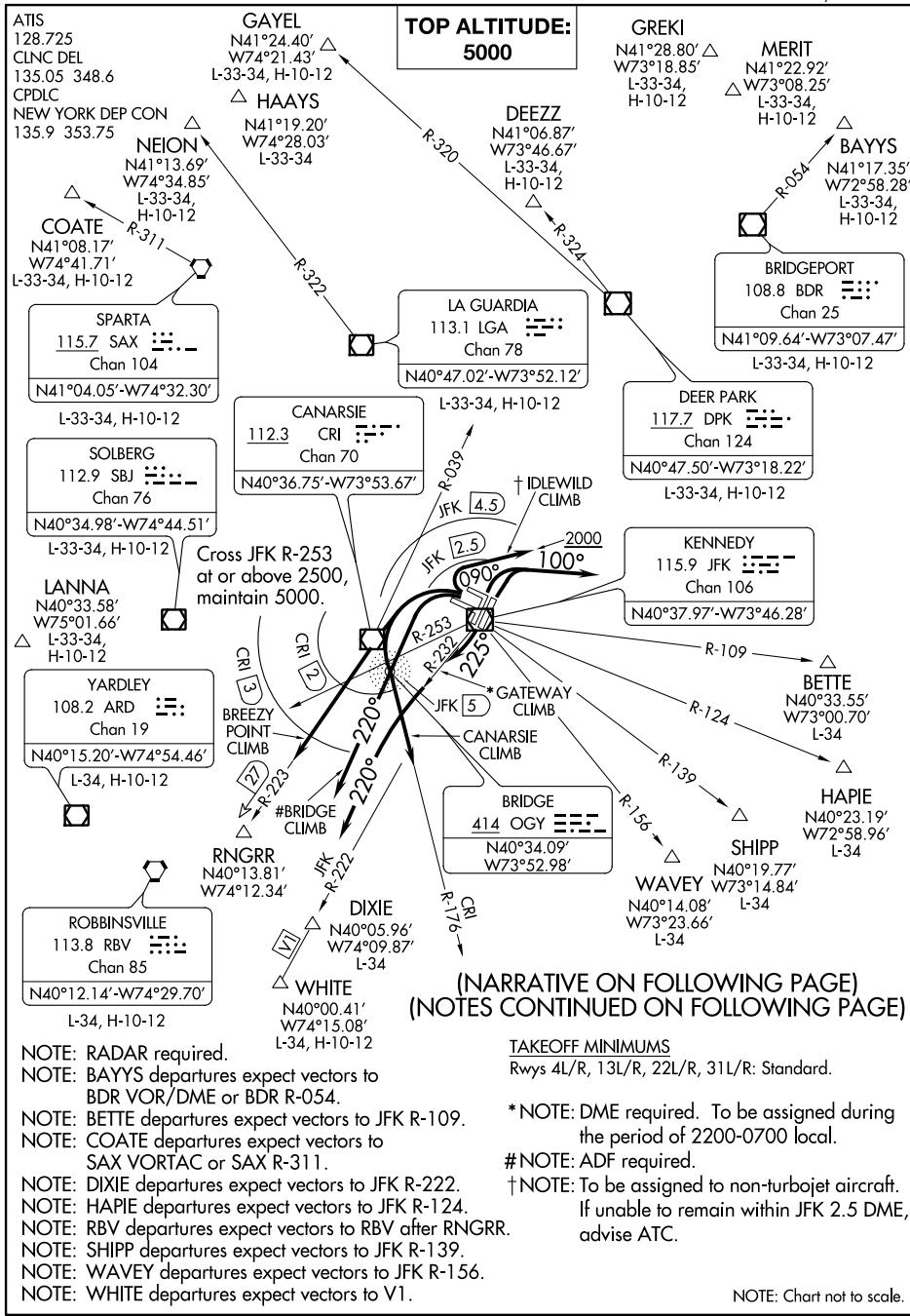
TAKEOFF OBSTACLE NOTES:

- Rwy 4L: Fence and light poles beginning 94' from DER, 466' right of centerline, up to 7' AGL/22' MSL.
 Localizer 204' from DER, on centerline, 6' AGL/21' MSL.
 Tower, light poles, utility poles, fence, and building beginning 212' from DER, left and right of centerline, up to 15' AGL/28' MSL.
 Trees beginning 400' from DER, 765' right of centerline, up to 79' AGL/92' MSL.
- Trees beginning 77' from DER, 655' left of centerline, up to 74' AGL/87' MSL.
- Rwy 4R: Lights beginning 6' from DER, 4' right of centerline, up to 2' AGL/13' MSL.
 Lights beginning 6' from DER, 5' left of centerline, up to 2' AGL/13' MSL.
 Lights 10' from DER, on centerline, 2' AGL/13' MSL.
 Trees beginning 493' from DER, 468' right of centerline, up to 34' AGL/48' MSL.
 Trees beginning 1757' from DER, 626' right of centerline, up to 57' AGL/66' MSL.
 Trees beginning 1274' from DER, 477' left of centerline, up to 73' AGL/76' MSL.
- Rwy 13L: Sign and lights beginning 2' from DER, 2' right of centerline, up to 3' AGL/14' MSL.
 Lights 11' from DER, on centerline, 2' AGL/13' MSL.
 Sign, electrical equipment, and lights beginning 11' from DER, 3' left of centerline, up to 3' AGL/14' MSL.
 Pole and sign beginning 254' from DER, 523' right of centerline, up to 9' AGL/20' MSL.
 Rod 1119' from DER, 140' left of centerline, 39' AGL/58' MSL.
 Trees beginning 1774' from DER, 1' right of centerline, up to 72' AGL/91' MSL.
- Rwy 13R: Lights beginning 4' from DER, 40' right of centerline, up to 3' AGL/14' MSL.
 Lights beginning 4' from DER, 15' left of centerline, up to 3' AGL/14' MSL.
 Buildings, tower, and glideslope antenna beginning 418' from DER, 404' left of centerline, up to 39' AGL/58' MSL.
 Transmission towers beginning 4749' from DER, 1385' right of centerline, up to 139' AGL/140' MSL.
- Rwy 22L: Lights beginning 3' from DER, 4' left of centerline, up to 2' AGL/13' MSL.
 Lights beginning 4' from DER, 5' right of centerline, up to 2' AGL/13' MSL.
 Lights 5' from DER, on centerline, 2' AGL/13' MSL.
 Trees beginning 433' from DER, 578' left of centerline, up to 27' AGL/31' MSL.
- Rwy 22R: Lights beginning abeam DER, 55' right of centerline, up to 2' AGL/13' MSL.
 Fence, lights, and bushes beginning abeam DER, 54' left of centerline, up to 8' AGL/19' MSL.
- Rwy 31L: Lights beginning 9' from DER, 80' right of centerline, up to 3' AGL/14' MSL.
 Lights beginning 10' from DER, 80' left of centerline, up to 2' AGL/13' MSL.
 Trees 2075' from DER, 435' left of centerline, up to 87' AGL/91' MSL.
- Rwy 31R: Lights beginning 8' from DER, 3' left of centerline, up to 2' AGL/13' MSL.
 Lights 10' from DER, on centerline, 2' AGL/13' MSL.
 Lights beginning 10' from DER, 3' right of centerline, up to 2' AGL/13' MSL.
 Electrical system, electrical box, and lights beginning 101' from DER, on centerline, and left and right of centerline, up to 7' AGL/18' MSL.
 Approach lights beginning 200' from DER, on centerline, up to 9' AGL/27' MSL.
 Fences, lights, and poles beginning 146' from DER, 115' left of centerline, up to 19' AGL/30' MSL.
 Lights and trees beginning 553' from DER, 191' right of centerline, up to 34' AGL/48' MSL.
 Lights and poles beginning 1443' from DER, 334' left of centerline, up to 55' AGL/67' MSL.
 Pole 2162' from DER, 562' right of centerline, 54' AGL/66' MSL.
 Antenna 3916' from DER, 1550' right of centerline, 111' AGL/130' MSL.

(JFK3.JFK) 16091

KENNEDY THREE DEPARTURE

SL-610 (FAA)

JOHN F KENNEDY INTL (JFK)
NEW YORK, NEW YORKKENNEDY THREE DEPARTURE
(JFK3.JFK) 04FEB16NEW YORK, NEW YORK
JOHN F KENNEDY INTL (JFK)



DEPARTURE ROUTE DESCRIPTION

TAKEOF RUNWAYS 4L/R: Climbing right turn heading 100°, thence

TAKEOF RUNWAYS 13L/R: Climb on assigned heading, thence

TAKEOF RUNWAYS 22L/R: Climb heading 225°, thence

* GATEWAY CLIMB: Climbing right turn to intercept the JFK R-232 until 5 DME, then turn left heading 220°, thence

TAKEOF RUNWAYS 31L/R:

BREEZY POINT CLIMB: Climbing left turn direct CRI VOR/DME. Make turn east of CRI R-039 (remain within JFK 4.5 DME), then via CRI R-223 to RNGRR/CRI 27 DME. Cross CRI 3 DME or JFK R-253 at or above 2500, thence

BRIDGE CLIMB: Climbing left turn direct OGY NDB, then on heading 220° after OGY NDB. Make turn east of CRI R-039 (remain within JFK 4.5 DME). Cross JFK R-253 at or above 2500, thence

CANARSIE CLIMB: Climbing left turn direct CRI VOR/DME. Make turn east of CRI R-039 (remain within JFK 4.5 DME), then via CRI R-176. Cross CRI 2 DME or JFK R-253 at or above 2500, thence

† IDLEWILD CLIMB: Climbing right turn to 2000 heading 090° (remain within JFK 2.5 DME), thence

. . . . via RADAR vectors to assigned route/fix, maintain 5000. Expect clearance to filed altitude/flight level ten (10) minutes after departure.

(CONTINUED ON FOLLOWING PAGE)

(NOTES CONTINUED)

TAKEOFF OBSTACLE NOTES

- Rwy 4L: Fence and light poles beginning 94' from DER, 466' right of centerline, up to 7' AGL/22' MSL.
 Localizer 204' from DER, on centerline, 6' AGL/21' MSL.
 Tower, light poles, utility poles, fence, and building beginning 212' from DER, left and right of centerline, up to 15' AGL/28' MSL.
 Trees beginning 400' from DER, 765' right of centerline, up to 79' AGL/92' MSL.
- Trees beginning 77' from DER, 655' left of centerline, up to 74' AGL/87' MSL.
- Rwy 4R: Lights beginning 6' from DER, 4' right of centerline, up to 2' AGL/13' MSL.
 Lights beginning 6' from DER, 5' left of centerline, up to 2' AGL/13' MSL.
 Lights 10' from DER, on centerline, 2' AGL/13' MSL.
 Trees beginning 493' from DER, 468' right of centerline, up to 34' AGL/48' MSL.
 Trees beginning 1757' from DER, 626' right of centerline, up to 57' AGL/66' MSL.
 Trees beginning 1274' from DER, 477' left of centerline, up to 73' AGL/76' MSL.
- Rwy 13L: Sign and lights beginning 2' from DER, 2' right of centerline, up to 3' AGL/14' MSL.
 Lights 11' from DER, on centerline, 2' AGL/13' MSL.
 Sign, electrical equipment, and lights beginning 11' from DER, 3' left of centerline, up to 3' AGL/14' MSL.
 Pole and sign beginning 254' from DER, 523' right of centerline, up to 9' AGL/20' MSL.
 Rod 1119' from DER, 140' left of centerline, 39' AGL/58' MSL.
 Trees beginning 1774' from DER, 1' right of centerline, up to 72' AGL/91' MSL.
- Rwy 13R: Lights beginning 4' from DER, 40' right of centerline, up to 3' AGL/14' MSL.
 Lights beginning 4' from DER, 15' left of centerline, up to 3' AGL/14' MSL.
 Buildings, tower, and glideslope antenna beginning 418' from DER, 404' left of centerline, up to 39' AGL/58' MSL.
 Transmission towers beginning 4749' from DER, 1385' right of centerline, up to 139' AGL/140' MSL.
- Rwy 22L: Lights beginning 3' from DER, 4' left of centerline, up to 2' AGL/13' MSL.
 Lights beginning 4' from DER, 5' right of centerline, up to 2' AGL/13' MSL.
 Lights 5' from DER, on centerline, 2' AGL/13' MSL.
 Trees beginning 433' from DER, 578' left of centerline, up to 27' AGL/31' MSL.
- Rwy 22R: Lights beginning abeam DER, 55' right of centerline, up to 2' AGL/13' MSL.
 Fence, lights, and bushes beginning abeam DER, 54' left of centerline, up to 8' AGL/19' MSL.
- Rwy 31L: Lights beginning 9' from DER, 80' right of centerline, up to 3' AGL/14' MSL.
 Lights beginning 10' from DER, 80' left of centerline, up to 2' AGL/13' MSL.
 Trees 2075' from DER, 435' left of centerline, up to 87' AGL/91' MSL.
- Rwy 31R: Lights beginning 8' from DER, 3' left of centerline, up to 2' AGL/13' MSL.
 Lights 10' from DER, on centerline, 2' AGL/13' MSL.
 Lights beginning 10' from DER, 3' right of centerline, up to 2' AGL/13' MSL.
 Electrical system, electrical box, and lights beginning 101' from DER, on centerline, and left and right of centerline, up to 7' AGL/18' MSL.
 Approach lights beginning 200' from DER, on centerline, up to 9' AGL/27' MSL.
 Fences, lights, and poles beginning 146' from DER, 115' left of centerline, up to 19' AGL/30' MSL.
 Lights and trees beginning 553' from DER, 191' right of centerline, up to 34' AGL/48' MSL.
 Lights and poles beginning 1443' from DER, 334' left of centerline, up to 55' AGL/67' MSL.
 Pole 2162' from DER, 562' right of centerline, 54' AGL/66' MSL.
 Antenna 3916' from DER, 1550' right of centerline, 111' AGL/130' MSL.

MERIT FOUR DEPARTURE (MERIT4, MERIT)

NE-2, 13 OCT 2016 to 10 NOV 2016
NOTE: Chart not to scale.

MERIT FOUR DEPARTURE (MERIT4, MERIT) 16091

ATIS
128.725
CLNC DEL
135.05 348.6
CPDLC
NEW YORK DEP CON
135.9 353.750

**TOP ALTITUDE:
5000**



TAKEOFF MINIMUMS:
Rwy 4L/R, 13L/R, 22L/R, 31L/R: Standard.

NOTE: RADAR required.

* NOTE: DME required. To be assigned during the period 2200-0700 local.

NOTE: ADF required.

(NOTES CONTINUED ON FOLLOWING PAGE)
(NARRATIVE ON FOLLOWING PAGE)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 4L/R: Climbing right turn heading 100°, thence

TAKEOFF RUNWAYS 13L/R: Climb on assigned heading, thence

TAKEOFF RUNWAYS 22L/R: Climb heading 225°, thence

*GATEWAY CLIMB: Climbing right turn to intercept the JFK R-232 until 5 DME, then turn left heading 220°, thence

TAKEOFF RUNWAYS 31L/R:

BREEZY POINT CLIMB: Climbing left turn direct CRI VOR/DME. Make turn east of CRI R-039 (remain within JFK 4.5 DME), then via CRI R-223. Cross CRI 3 DME or JFK R-253 at or above 2500, thence

#BRIDGE CLIMB: Climbing left turn direct OGY NDB, then on heading 220° after OGY NDB. Make turn east of CRI R-039 (remain within JFK 4.5 DME). Cross JFK R-253 at or above 2500, thence

CANARSIE CLIMB: Climbing left turn direct CRI VOR/DME. Make turn east of CRI R-039 (remain within JFK 4.5 DME), then via CRI R-176. Cross CRI 2 DME or JFK R-253 at or above 2500, thence

. . . . via RADAR vectors to MERIT, maintain 5000. Expect clearance to filed altitude/flight level ten (10) minutes after departure.

PUTNAM TRANSITION (MERIT4.PUT): From over MERIT INT to HFD VOR/DME via HFD R-253, then via HFD R-072 and PUT R-253 to PUT VOR/DME.

(CONTINUED ON FOLLOWING PAGE)

MERIT FOUR DEPARTURE

SL-610 (FAA)

JOHN F KENNEDY INTL (JFK)
NEW YORK, NEW YORK

(NOTES CONTINUED)

TAKEOFF OBSTACLE NOTES:

- Rwy 4L: Fence and light poles beginning 94' from DER, 466' right of centerline, up to 7' AGL/22' MSL.
 Localizer 204' from DER, on centerline, 6' AGL/21' MSL.
 Tower, light poles, utility poles, fence, and building beginning 212' from DER, left and right of centerline, up to 15' AGL/28' MSL.
 Trees beginning 400' from DER, 765' right of centerline, up to 79' AGL/92' MSL.
- Trees beginning 77' from DER, 655' left of centerline, up to 74' AGL/87' MSL.
- Rwy 4R: Lights beginning 6' from DER, 4' right of centerline, up to 2' AGL/13' MSL.
 Lights beginning 6' from DER, 5' left of centerline, up to 2' AGL/13' MSL.
 Lights 10' from DER, on centerline, 2' AGL/13' MSL.
 Trees beginning 493' from DER, 468' right of centerline, up to 34' AGL/48' MSL.
 Trees beginning 1757' from DER, 626' right of centerline, up to 57' AGL/66' MSL.
 Trees beginning 1274' from DER, 477' left of centerline, up to 73' AGL/76' MSL.
- Rwy 13L: Sign and lights beginning 2' from DER, 2' right of centerline, up to 3' AGL/14' MSL.
 Lights 11' from DER, on centerline, 2' AGL/13' MSL.
 Sign, electrical equipment, and lights beginning 11' from DER, 3' left of centerline, up to 3' AGL/14' MSL.
 Pole and sign beginning 254' from DER, 523' right of centerline, up to 9' AGL/20' MSL.
 Rod 1119' from DER, 140' left of centerline, 39' AGL/58' MSL.
 Trees beginning 1774' from DER, 1' right of centerline, up to 72' AGL/91' MSL.
- Rwy 13R: Lights beginning 4' from DER, 40' right of centerline, up to 3' AGL/14' MSL.
 Lights beginning 4' from DER, 15' left of centerline, up to 3' AGL/14' MSL.
 Buildings, tower, and glideslope antenna beginning 418' from DER, 404' left of centerline, up to 39' AGL/58' MSL.
 Transmission towers beginning 4749' from DER, 1385' right of centerline, up to 139' AGL/140' MSL.
- Rwy 22L: Lights beginning 3' from DER, 4' left of centerline, up to 2' AGL/13' MSL.
 Lights beginning 4' from DER, 5' right of centerline, up to 2' AGL/13' MSL.
 Lights 5' from DER, on centerline, 2' AGL/13' MSL.
 Trees beginning 433' from DER, 578' left of centerline, up to 27' AGL/31' MSL.
- Rwy 22R: Lights beginning abeam DER, 55' right of centerline, up to 2' AGL/13' MSL.
 Fence, lights, and bushes beginning abeam DER, 54' left of centerline, up to 8' AGL/19' MSL.
- Rwy 31L: Lights beginning 9' from DER, 80' right of centerline, up to 3' AGL/14' MSL.
 Lights beginning 10' from DER, 80' left of centerline, up to 2' AGL/13' MSL.
 Trees 2075' from DER, 435' left of centerline, up to 87' AGL/91' MSL.
- Rwy 31R: Lights beginning 8' from DER, 3' left of centerline, up to 2' AGL/13' MSL.
 Lights 10' from DER, on centerline, 2' AGL/13' MSL.
 Lights beginning 10' from DER, 3' right of centerline, up to 2' AGL/13' MSL.
 Electrical system, electrical box, and lights beginning 101' from DER, on centerline, and left and right of centerline, up to 7' AGL/18' MSL.
 Approach lights beginning 200' from DER, on centerline, up to 9' AGL/27' MSL.
 Fences, lights, and poles beginning 146' from DER, 115' left of centerline, up to 19' AGL/30' MSL.
 Lights and trees beginning 553' from DER, 191' right of centerline, up to 34' AGL/48' MSL.
 Lights and poles beginning 1443' from DER, 334' left of centerline, up to 55' AGL/67' MSL.
 Pole 2162' from DER, 562' right of centerline, 54' AGL/66' MSL.
 Antenna 3916' from DER, 1550' right of centerline, 111' AGL/130' MSL.

(SKORR3.SKORR) 16091

SKORR THREE DEPARTURE (RNAV)

SL-610 (FAA)

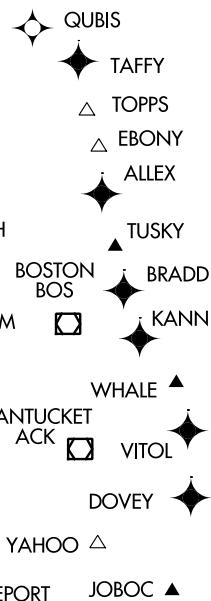
JOHN F. KENNEDY INTL (JFK)

NEW YORK, NEW YORK

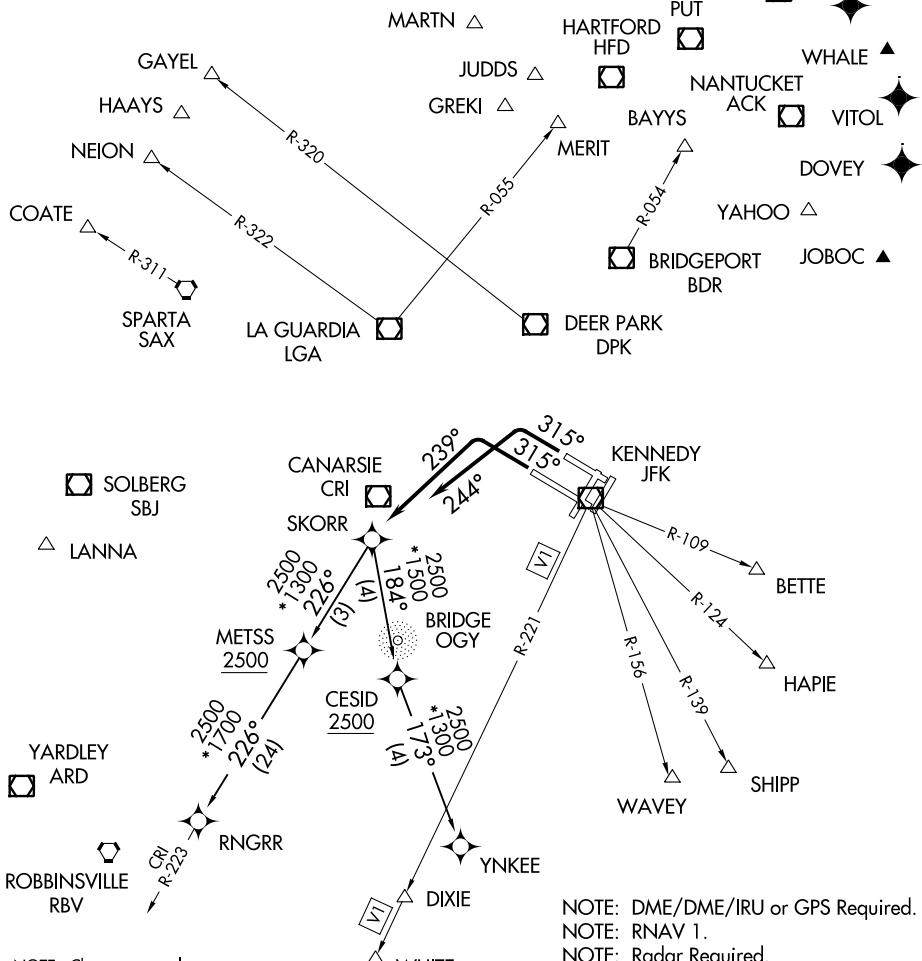
ATIS
128.725
CLNC DEL
135.05 348.6
CPDLC
NEW YORK DEP CON
135.9 353.75

TAKEOFF MINIMUMS:

Rwys 4L, 4R, 13L, 13R, 22L, 22R: NA - Noise Abatement.
 Rwy 31R: Standard, with minimum climb of 500' per NM
 to 513 then ATC climb of 276' per NM to 2500.
 Rwy 31L: Standard, with minimum climb of 500' per NM
 to 513 then ATC climb of 276' per NM to 2500.



(NARRATIVE ON FOLLOWING PAGE)



NOTE: Chart not to scale.
SKORR THREE DEPARTURE (RNAV)
(SKORR3.SKORR) 29JUL10

NEW YORK, NEW YORK
 JOHN F. KENNEDY INTL (JFK)



DEPARTURE ROUTE DESCRIPTION

TAKOFF RUNWAY 31R: Climb heading 315° to intercept course 244° to SKORR.
Thence

TAKOFF RUNWAY 31L: Climb heading 315° to intercept course 239° to SKORR.
Thence

. . . . Maintain 5000, expect clearance to filed altitude/flight level ten minutes after departure.

RNGRR TRANSITION (SKORR3.RNGRR):

YNKEE TRANSITION (SKORR3.YNKEE):

TAKEOFF OBSTACLE NOTES:

Rwy 31L: Tree 2076' from DER, 436' left of centerline, 79' AGL/91' MSL.
Bush 257' from DER, 530' left of centerline, 13' AGL/25' MSL.

Rwy 31R: Tree 752' from DER, 654' left of centerline, 39' AGL/52' MSL.

Tree 561' from DER, 646' right of centerline, 30' AGL/43' MSL.

Multiple light poles starting 1442' from DER, 336' left of centerline, up to 44' AGL/67' MSL.
Vehicle on road 281' from DER, 501' left of centerline, 15' AGL/26' MSL.

Multiple obstruction lights on poles and fence starting 366' from DER, 15' left of centerline,
up to 17' AGL/31' MSL.

Obstruction light on pole 625' from DER, 359' right of centerline, 28' AGL/31' MSL.

Approach light 190' from DER, 8' right of centerline, 5' AGL/18' MSL.

Fence 410' from DER, 352' right of centerline, 10' AGL/23' MSL.

NOTE: North American routes via...

...BETTE expect radar vectors to BETTE direct ACK VOR/DME.

...GREKI expect radar vectors to GREKI direct JUDDS direct MARTN.

...HAPIE expect radar vectors to HAPIE direct YAHOO.

...MERIT expect radar vectors to MERIT direct HFD VOR/DME then
direct PUT VOR/DME then...

...TOPPS or EBONY expect direct.

...ALLEX via direct WITCH direct.

...TUSKY and south expect direct BOS VOR/DME direct.