

# LEMD

Adolfo Suárez Madrid-Barajas

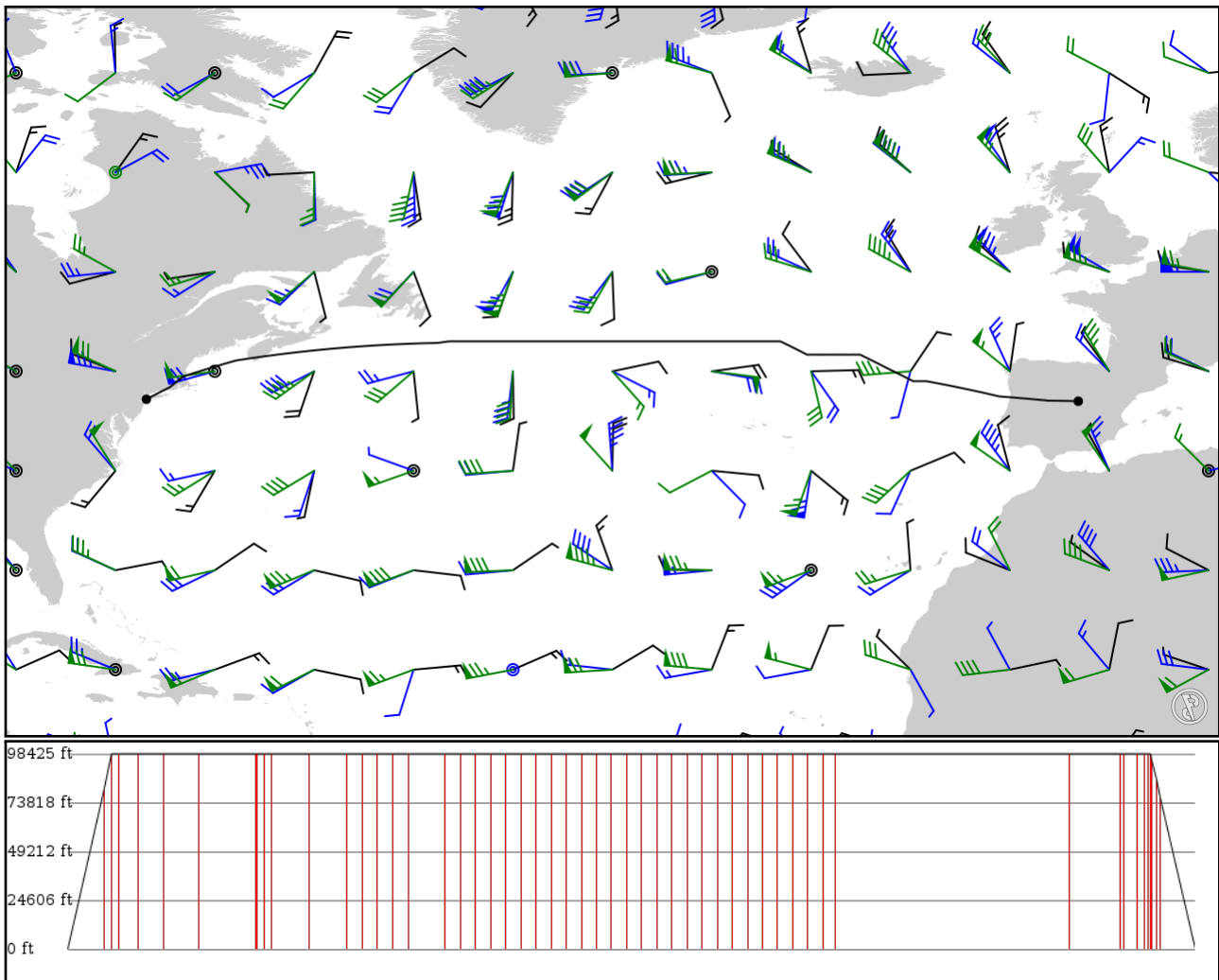
# KJFK

John F. Kennedy Intl

2024/05/09 1653Z

LEMD RIDAV **UM191** BARDI **B47** RIVRO **UM191** DIRMA **UZ28** BANAL LUPOV EKROL 4200N01600W 4300N01800W  
4400N02000W 4400N02100W 4400N02200W 4400N02300W 4400N02400W 4500N02600W 4500N02700W 4500N02800W  
4500N02900W 4500N03000W 4500N03100W 4500N03200W 4500N03300W 4500N03400W 4500N03500W 4500N03600W  
4500N03700W 4500N03800W 4500N03900W 4500N04000W 4500N04100W 4500N04200W 4500N04300W 4500N04400W  
4500N04500W 4500N04600W 4500N04700W 4500N04800W 4500N04900W 4500N05000W 4500N05100W RAFIN **N86A**  
TUSKY **J575** BOS **V16** ORW KJFK

3171.22 nm / 5873.10 km



## Notes

Basic altitude profile:

- Ascent Rate: 2000ft/min
- Ascent Speed: 250kts
- Cruise Altitude: 30000ft
- Cruise Speed: 500kts
- Descent Rate: 2000ft/min
- Descent Speed: 300kts

Options:

- Use NATs: yes
- Use PACOTS: yes
- Use low airways: yes
- Use high airways: yes

## Route

| Ident<br>Type | Via    | Lat<br>Lon | Alt       | Dist<br>(nm) | Name                         |
|---------------|--------|------------|-----------|--------------|------------------------------|
| LEMD          | -      | 40.49530   | 0 ft      | -            | Adolfo Suárez Madrid-Barajas |
| APT           | -      | -3.56020   | 0 m       |              |                              |
| RIDAV         | -      | 40.53530   | 24,600 ft | 102          | -                            |
| FIX           | -      | -5.80828   | 7,498 m   |              |                              |
| BARDI         | UM191  | 40.58350   | 30,000 ft | 22           | -                            |
| FIX           | AWY-HI | -6.30244   | 9,144 m   |              |                              |
| RIVRO         | B47    | 40.62280   | 30,000 ft | 19           | -                            |
| FIX           | AWY-LO | -6.72275   | 9,144 m   |              |                              |
| VIS           | UM191  | 40.72340   | 30,000 ft | 53           | WISEU                        |
| VOR           | AWY-HI | -7.88583   | 9,144 m   |              |                              |
| DIRMA         | UM191  | 40.85170   | 30,000 ft | 73           | -                            |
| FIX           | AWY-HI | -9.50083   | 9,144 m   |              |                              |
| DIDIT         | UZ28   | 41.32000   | 30,000 ft | 97           | -                            |
| FIX           | AWY-HI | -11.57170  | 9,144 m   |              |                              |
| BANAL         | UZ28   | 42.00000   | 30,000 ft | 159          | -                            |
| FIX           | AWY-HI | -15.00000  | 9,144 m   |              |                              |
| LUPOV         | -      | 42.00000   | 30,000 ft | 3            | -                            |
| FIX           | -      | -15.08330  | 9,144 m   |              |                              |
| EKROL         | -      | 42.00000   | 30,000 ft | 22           | -                            |
| FIX           | -      | -15.58330  | 9,144 m   |              |                              |
| 4200N01600W   | -      | 42.00000   | 30,000 ft | 18           | -                            |
| LATLON        | -      | -16.00000  | 9,144 m   |              |                              |
| 4300N01800W   | -      | 43.00000   | 30,000 ft | 106          | -                            |
| LATLON        | -      | -18.00000  | 9,144 m   |              |                              |
| 4400N02000W   | -      | 44.00000   | 30,000 ft | 105          | -                            |
| LATLON        | -      | -20.00000  | 9,144 m   |              |                              |
| 4400N02100W   | -      | 44.00000   | 30,000 ft | 43           | -                            |
| LATLON        | -      | -21.00000  | 9,144 m   |              |                              |
| 4400N02200W   | -      | 44.00000   | 30,000 ft | 43           | -                            |
| LATLON        | -      | -22.00000  | 9,144 m   |              |                              |
| 4400N02300W   | -      | 44.00000   | 30,000 ft | 43           | -                            |
| LATLON        | -      | -23.00000  | 9,144 m   |              |                              |
| 4400N02400W   | -      | 44.00000   | 30,000 ft | 43           | -                            |
| LATLON        | -      | -24.00000  | 9,144 m   |              |                              |
| 4500N02600W   | -      | 45.00000   | 30,000 ft | 104          | -                            |
| LATLON        | -      | -26.00000  | 9,144 m   |              |                              |
| 4500N02700W   | -      | 45.00000   | 30,000 ft | 42           | -                            |
| LATLON        | -      | -27.00000  | 9,144 m   |              |                              |
| 4500N02800W   | -      | 45.00000   | 30,000 ft | 42           | -                            |
| LATLON        | -      | -28.00000  | 9,144 m   |              |                              |
| 4500N02900W   | -      | 45.00000   | 30,000 ft | 42           | -                            |
| LATLON        | -      | -29.00000  | 9,144 m   |              |                              |
| 4500N03000W   | -      | 45.00000   | 30,000 ft | 42           | -                            |
| LATLON        | -      | -30.00000  | 9,144 m   |              |                              |
| 4500N03100W   | -      | 45.00000   | 30,000 ft | 42           | -                            |
| LATLON        | -      | -31.00000  | 9,144 m   |              |                              |
| 4500N03200W   | -      | 45.00000   | 30,000 ft | 42           | -                            |
| LATLON        | -      | -32.00000  | 9,144 m   |              |                              |
| 4500N03300W   | -      | 45.00000   | 30,000 ft | 42           | -                            |
| LATLON        | -      | -33.00000  | 9,144 m   |              |                              |
| 4500N03400W   | -      | 45.00000   | 30,000 ft | 42           | -                            |
| LATLON        | -      | -34.00000  | 9,144 m   |              |                              |
| 4500N03500W   | -      | 45.00000   | 30,000 ft | 42           | -                            |

| Ident<br>Type | Via    | Lat<br>Lon | Alt       | Dist<br>(nm) | Name                 |
|---------------|--------|------------|-----------|--------------|----------------------|
| LATLON        | -      | -35.00000  | 9,144 m   |              |                      |
| 4500N03600W   | -      | 45.00000   | 30,000 ft | 42           | -                    |
| LATLON        | -      | -36.00000  | 9,144 m   |              |                      |
| 4500N03700W   | -      | 45.00000   | 30,000 ft | 42           | -                    |
| LATLON        | -      | -37.00000  | 9,144 m   |              |                      |
| 4500N03800W   | -      | 45.00000   | 30,000 ft | 42           | -                    |
| LATLON        | -      | -38.00000  | 9,144 m   |              |                      |
| 4500N03900W   | -      | 45.00000   | 30,000 ft | 42           | -                    |
| LATLON        | -      | -39.00000  | 9,144 m   |              |                      |
| 4500N04000W   | -      | 45.00000   | 30,000 ft | 42           | -                    |
| LATLON        | -      | -40.00000  | 9,144 m   |              |                      |
| 4500N04100W   | -      | 45.00000   | 30,000 ft | 42           | -                    |
| LATLON        | -      | -41.00000  | 9,144 m   |              |                      |
| 4500N04200W   | -      | 45.00000   | 30,000 ft | 42           | -                    |
| LATLON        | -      | -42.00000  | 9,144 m   |              |                      |
| 4500N04300W   | -      | 45.00000   | 30,000 ft | 42           | -                    |
| LATLON        | -      | -43.00000  | 9,144 m   |              |                      |
| 4500N04400W   | -      | 45.00000   | 30,000 ft | 42           | -                    |
| LATLON        | -      | -44.00000  | 9,144 m   |              |                      |
| 4500N04500W   | -      | 45.00000   | 30,000 ft | 42           | -                    |
| LATLON        | -      | -45.00000  | 9,144 m   |              |                      |
| 4500N04600W   | -      | 45.00000   | 30,000 ft | 42           | -                    |
| LATLON        | -      | -46.00000  | 9,144 m   |              |                      |
| 4500N04700W   | -      | 45.00000   | 30,000 ft | 42           | -                    |
| LATLON        | -      | -47.00000  | 9,144 m   |              |                      |
| 4500N04800W   | -      | 45.00000   | 30,000 ft | 42           | -                    |
| LATLON        | -      | -48.00000  | 9,144 m   |              |                      |
| 4500N04900W   | -      | 45.00000   | 30,000 ft | 42           | -                    |
| LATLON        | -      | -49.00000  | 9,144 m   |              |                      |
| 4500N05000W   | -      | 45.00000   | 30,000 ft | 42           | -                    |
| LATLON        | -      | -50.00000  | 9,144 m   |              |                      |
| 4500N05100W   | -      | 45.00000   | 30,000 ft | 42           | -                    |
| LATLON        | -      | -51.00000  | 9,144 m   |              |                      |
| RAFIN         | -      | 44.88330   | 30,000 ft | 34           | -                    |
| FIX           | -      | -51.80470  | 9,144 m   |              |                      |
| TUSKY         | N86A   | 43.56500   | 30,000 ft | 657          | -                    |
| FIX           | AWY-HI | -67.00000  | 9,144 m   |              |                      |
| CANAL         | J575   | 42.66900   | 30,000 ft | 143          | -                    |
| FIX           | AWY-HI | -70.02270  | 9,144 m   |              |                      |
| SCUPP         | J575   | 42.60310   | 30,000 ft | 9            | -                    |
| FIX           | AWY-HI | -70.23040  | 9,144 m   |              |                      |
| BOS           | J575   | 42.35740   | 30,000 ft | 36           | BOSTON               |
| VOR           | AWY-HI | -70.98950  | 9,144 m   |              |                      |
| MILIS         | V16    | 42.10520   | 30,000 ft | 20           | -                    |
| FIX           | AWY-LO | -71.31160  | 9,144 m   |              |                      |
| WOONS         | V16    | 41.95060   | 30,000 ft | 12           | -                    |
| FIX           | AWY-LO | -71.50700  | 9,144 m   |              |                      |
| HEFTY         | V16    | 41.90530   | 30,000 ft | 3            | -                    |
| FIX           | AWY-LO | -71.56400  | 9,144 m   |              |                      |
| FOSTY         | V16    | 41.84320   | 29,000 ft | 5            | -                    |
| FIX           | AWY-LO | -71.64200  | 8,839 m   |              |                      |
| JEWIT         | V16    | 41.69610   | 26,100 ft | 12           | -                    |
| FIX           | AWY-LO | -71.82590  | 7,955 m   |              |                      |
| ORW           | V16    | 41.55640   | 23,300 ft | 11           | NORWICH              |
| VOR           | AWY-LO | -71.99940  | 7,102 m   |              |                      |
| KJFK          | -      | 40.64010   | 0 ft      | 97           | John F. Kennedy Intl |

| Ident | Via | Lat       | Alt | Dist | Name |
|-------|-----|-----------|-----|------|------|
| Type  |     | Lon       |     | (nm) |      |
| APT   | -   | -73.77650 | 0 m |      |      |

## LEMD

Region: SPAIN  
Timezone: EUROPE/MADRID  
Runways: 4

Elevation: 1,998 ft / 609 m  
Location: 40.495300 -3.560200  
Magnetic Var: 0.078 E

## METAR

LEMD 091630Z VRB04KT CAVOK 28/03 Q1016 NOSIG

## TAF

TAF LEMD 091100Z 0912/1018 VRB04KT CAVOK TX32/1015Z TN16/1005Z

## Frequencies

|                                       |                                       |
|---------------------------------------|---------------------------------------|
| REC - 130.85 MHz - ATIS DEPARTURE     | REC - 118.25 MHz - ATIS ARRIVAL       |
| TWR - 120.65 MHz - BARAJAS TOWER      | TWR - 120.15 MHz - BARAJAS TOWER      |
| TWR - 119.50 MHz - BARAJAS TOWER      | TWR - 118.15 MHz - BARAJAS TOWER      |
| GND - 121.75 MHz - BARAJAS GROUND     | GND - 123.15 MHz - BARAJAS GROUND     |
| GND - 121.70 MHz - BARAJAS APRON      | GND - 123.25 MHz - BARAJAS APRON      |
| GND - 121.85 MHz - BARAJAS APRON      | GND - 123.00 MHz - BARAJAS APRON      |
| CLD - 130.35 MHz - CLEARANCE DELIVERY | CLD - 130.00 MHz - CLEARANCE DELIVERY |
| APP - 127.50 MHz - MADRID APPROACH    | APP - 136.10 MHz - MADRID APPROACH    |
| APP - 134.00 MHz - MADRID APPROACH    | APP - 130.80 MHz - MADRID APPROACH    |
| APP - 127.10 MHz - MADRID APPROACH    | APP - 124.00 MHz - MADRID APPROACH    |
| APP - 118.75 MHz - MADRID APPROACH    | APP - 118.40 MHz - MADRID APPROACH    |
| DEP - 131.17 MHz - MADRID DEPARTURE   | DEP - 124.22 MHz - MADRID DEPARTURE   |
| APP - 134.95 MHz - MADRID DIRECT      | APP - 128.70 MHz - MADRID DIRECT      |

## Runways

| Ident | Width  | Length    | Bearing (true)<br>(mag) | Surface | Threshold<br>Offset | Overrun<br>Length |
|-------|--------|-----------|-------------------------|---------|---------------------|-------------------|
| 14R   | 197 ft | 13,097 ft | 142.31                  | ASPHALT | 0 ft                | 0 ft              |
|       | 60 m   | 3,992 m   | 142.23                  |         | 0 m                 | 0 m               |
| 32L   | 197 ft | 13,097 ft | 322.32                  | ASPHALT | 3,041 ft            | 0 ft              |
|       | 60 m   | 3,992 m   | 322.25                  |         | 927 m               | 0 m               |
| 18R   | 197 ft | 13,723 ft | 179.75                  | ASPHALT | 2,644 ft            | 0 ft              |
|       | 60 m   | 4,183 m   | 179.67                  |         | 806 m               | 0 m               |
| 36L   | 197 ft | 13,723 ft | 359.75                  | ASPHALT | 0 ft                | 0 ft              |
|       | 60 m   | 4,183 m   | 359.67                  |         | 0 m                 | 0 m               |
| 14L   | 197 ft | 11,494 ft | 142.31                  | ASPHALT | 0 ft                | 0 ft              |
|       | 60 m   | 3,504 m   | 142.24                  |         | 0 m                 | 0 m               |
| 32R   | 197 ft | 11,494 ft | 322.33                  | ASPHALT | 1,627 ft            | 0 ft              |
|       | 60 m   | 3,504 m   | 322.25                  |         | 496 m               | 0 m               |
| 18L   | 197 ft | 11,494 ft | 179.76                  | ASPHALT | 1,621 ft            | 0 ft              |
|       | 60 m   | 3,503 m   | 179.68                  |         | 494 m               | 0 m               |
| 36R   | 197 ft | 11,494 ft | 359.76                  | ASPHALT | 0 ft                | 0 ft              |
|       | 60 m   | 3,503 m   | 359.68                  |         | 0 m                 | 0 m               |

## Approach Nav aids

| Runway | Type | Ident | Frequency  | Range | Bearing (true)<br>(mag) | Slope | Elevation |
|--------|------|-------|------------|-------|-------------------------|-------|-----------|
| 18L    | DME  | IML   | 111.50 MHz | 18 nm | -                       | -     | 1,916 ft  |
|        |      |       |            | 33 km | -                       |       | 1,916 m   |
| 18R    | DME  | IMR   | 110.70 MHz | 18 nm | -                       | -     | 1,986 ft  |
|        |      |       |            | 33 km | -                       |       | 1,986 m   |

| Runway | Type    | Ident | Frequency  | Range | Bearing (true)<br>(mag) | Slope | Elevation |
|--------|---------|-------|------------|-------|-------------------------|-------|-----------|
| 32L    | DME     | MAA   | 109.90 MHz | 18 nm | -                       | -     | 1,998 ft  |
|        |         |       |            | 33 km | -                       |       | 1,998 m   |
| 32R    | DME     | MBB   | 109.10 MHz | 18 nm | -                       | -     | 1,998 ft  |
|        |         |       |            | 33 km | -                       |       | 1,998 m   |
| 18L    | LOC-ILS | IML   | 111.50 MHz | 18 nm | 179.76                  | -     | 1,998 ft  |
|        |         |       |            | 33 km | 179.68                  |       | 1,998 m   |
| 18R    | LOC-ILS | IMR   | 110.70 MHz | 18 nm | 179.75                  | -     | 1,998 ft  |
|        |         |       |            | 33 km | 179.67                  |       | 1,998 m   |
| 32L    | LOC-ILS | MAA   | 109.90 MHz | 18 nm | 322.32                  | -     | 1,998 ft  |
|        |         |       |            | 33 km | 322.24                  |       | 1,998 m   |
| 32R    | LOC-ILS | MBB   | 109.10 MHz | 18 nm | 322.33                  | -     | 1,998 ft  |
|        |         |       |            | 33 km | 322.25                  |       | 1,998 m   |
| 18L    | GS      | IML   | 111.50 MHz | 10 nm | 179.76                  | 3.00  | 1,998 ft  |
|        |         |       |            | 19 km | 179.68                  |       | 1,998 m   |
| 18R    | GS      | IMR   | 110.70 MHz | 10 nm | 179.75                  | 3.00  | 1,978 ft  |
|        |         |       |            | 19 km | 179.67                  |       | 1,978 m   |
| 32L    | GS      | MAA   | 109.90 MHz | 10 nm | 322.32                  | 3.00  | 1,998 ft  |
|        |         |       |            | 19 km | 322.24                  |       | 1,998 m   |
| 32R    | GS      | MBB   | 109.10 MHz | 10 nm | 322.33                  | 3.00  | 1,998 ft  |
|        |         |       |            | 19 km | 322.25                  |       | 1,998 m   |

## KJFK

Region: UNITED STATES  
Timezone: AMERICA/NEW\_YORK  
Runways: 4

Elevation: 12 ft / 4 m  
Location: 40.640100 -73.776500  
Magnetic Var: 12.820 W

## METAR

KJFK 091551Z 01013KT 10SM FEW045 FEW095 BKN140 BKN250 20/09 A2974 RMK A02 SLP071 T02000094 \$

## TAF

TAF AMD KJFK 091437Z 0915/1018 36010KT P6SM FEW040 BKN150 FM091900 13010KT P6SM FEW040 BKN080 FM100000 10009KT P6S

## Frequencies

|                                       |                                       |
|---------------------------------------|---------------------------------------|
| REC - 115.40 MHz - D-ATIS             | REC - 117.70 MHz - D-ATIS             |
| REC - 128.72 MHz - D-ATIS             | COM - 122.95 MHz - UNICOM             |
| CLD - 135.05 MHz - CLEARANCE DELIVERY | GND - 121.90 MHz - KENNEDY GROUND     |
| GND - 121.65 MHz - KENNEDY GROUND     | TWR - 119.10 MHz - KENNEDY TOWER      |
| TWR - 123.90 MHz - KENNEDY TOWER      | APP - 125.70 MHz - NEW YORK APPROACH  |
| APP - 128.12 MHz - NEW YORK APPROACH  | APP - 118.40 MHz - NEW YORK APPROACH  |
| APP - 123.70 MHz - NEW YORK APPROACH  | APP - 126.80 MHz - NEW YORK APPROACH  |
| APP - 132.40 MHz - NEW YORK APPROACH  | APP - 134.35 MHz - NEW YORK APPROACH  |
| DEP - 135.90 MHz - NEW YORK DEPARTURE | DEP - 123.70 MHz - NEW YORK DEPARTURE |
| DEP - 124.75 MHz - NEW YORK DEPARTURE | DEP - 134.35 MHz - NEW YORK DEPARTURE |

## Runways

| Ident | Width  | Length    | Bearing (true)<br>(mag) | Surface  | Threshold<br>Offset | Overrun<br>Length |
|-------|--------|-----------|-------------------------|----------|---------------------|-------------------|
| 13R   | 200 ft | 14,526 ft | 120.83                  | CONCRETE | 2,057 ft            | 390 ft            |
|       | 61 m   | 4,428 m   | 133.65                  |          | 627 m               | 119 m             |
| 31L   | 200 ft | 14,526 ft | 300.86                  | CONCRETE | 3,271 ft            | 495 ft            |
|       | 61 m   | 4,428 m   | 313.68                  |          | 997 m               | 151 m             |
| 13L   | 151 ft | 10,010 ft | 120.85                  | CONCRETE | 912 ft              | 387 ft            |
|       | 46 m   | 3,051 m   | 133.67                  |          | 278 m               | 118 m             |
| 31R   | 151 ft | 10,010 ft | 300.87                  | CONCRETE | 1,037 ft            | 177 ft            |
|       | 46 m   | 3,051 m   | 313.69                  |          | 316 m               | 54 m              |
| 04R   | 200 ft | 8,407 ft  | 30.67                   | ASPHALT  | 0 ft                | 440 ft            |
|       | 61 m   | 2,562 m   | 43.49                   |          | 0 m                 | 134 m             |
| 22L   | 200 ft | 8,407 ft  | 210.68                  | ASPHALT  | 0 ft                | 505 ft            |
|       | 61 m   | 2,562 m   | 223.50                  |          | 0 m                 | 154 m             |
| 04L   | 200 ft | 12,091 ft | 30.67                   | CONCRETE | 459 ft              | 200 ft            |
|       | 61 m   | 3,685 m   | 43.49                   |          | 140 m               | 61 m              |
| 22R   | 200 ft | 12,091 ft | 210.68                  | CONCRETE | 3,425 ft            | 407 ft            |
|       | 61 m   | 3,685 m   | 223.50                  |          | 1,044 m             | 124 m             |

## Approach Nav aids

| Runway | Type | Ident | Frequency  | Range | Bearing (true)<br>(mag) | Slope | Elevation |
|--------|------|-------|------------|-------|-------------------------|-------|-----------|
| 04L    | DME  | IHIQ  | 110.90 MHz | 18 nm | -                       | -     | 13 ft     |
|        |      |       |            | 33 km | -                       |       | 13 m      |
| 04R    | DME  | IJFK  | 109.50 MHz | 18 nm | -                       | -     | 13 ft     |
|        |      |       |            | 33 km | -                       |       | 13 m      |
| 13L    | DME  | ITLK  | 111.50 MHz | 18 nm | -                       | -     | 13 ft     |
|        |      |       |            | 33 km | -                       |       | 13 m      |
| 22L    | DME  | IIWY  | 110.90 MHz | 18 nm | -                       | -     | 13 ft     |
|        |      |       |            | 33 km | -                       |       | 13 m      |



| Runway | Type    | Ident | Frequency  | Range          | Bearing (true)<br>(mag) | Slope | Elevation     |
|--------|---------|-------|------------|----------------|-------------------------|-------|---------------|
| 22R    | DME     | IJOC  | 109.50 MHz | 18 nm<br>33 km | -<br>-                  | -     | 13 ft<br>13 m |
| 31R    | DME     | IRTH  | 111.50 MHz | 18 nm<br>33 km | -<br>-                  | -     | 13 ft<br>13 m |
| 04L    | LOC-ILS | IHIQ  | 110.90 MHz | 18 nm<br>33 km | 30.68<br>43.50          | -     | 12 ft<br>12 m |
| 04R    | LOC-ILS | IJFK  | 109.50 MHz | 18 nm<br>33 km | 30.67<br>43.49          | -     | 12 ft<br>12 m |
| 13L    | LOC-ILS | ITLK  | 111.50 MHz | 18 nm<br>33 km | 120.87<br>133.69        | -     | 12 ft<br>12 m |
| 22L    | LOC-ILS | IIWY  | 110.90 MHz | 18 nm<br>33 km | 210.67<br>223.49        | -     | 12 ft<br>12 m |
| 22R    | LOC-ILS | IJOC  | 109.50 MHz | 18 nm<br>33 km | 210.68<br>223.50        | -     | 12 ft<br>12 m |
| 31L    | LOC-ILS | IMOH  | 111.35 MHz | 18 nm<br>33 km | 300.84<br>313.66        | -     | 12 ft<br>12 m |
| 31R    | LOC-ILS | IRTH  | 111.50 MHz | 18 nm<br>33 km | 300.87<br>313.69        | -     | 12 ft<br>12 m |
| 04L    | GS      | IHIQ  | 110.90 MHz | 10 nm<br>19 km | 30.68<br>43.50          | 3.00  | 12 ft<br>12 m |
| 04R    | GS      | IJFK  | 109.50 MHz | 10 nm<br>19 km | 30.67<br>43.49          | 3.00  | 12 ft<br>12 m |
| 13L    | GS      | ITLK  | 111.50 MHz | 10 nm<br>19 km | 120.87<br>133.69        | 3.00  | 12 ft<br>12 m |
| 22L    | GS      | IIWY  | 110.90 MHz | 10 nm<br>19 km | 210.67<br>223.49        | 3.00  | 12 ft<br>12 m |
| 22R    | GS      | IJOC  | 109.50 MHz | 10 nm<br>19 km | 210.68<br>223.50        | 3.00  | 12 ft<br>12 m |
| 31L    | GS      | IMOH  | 111.35 MHz | 10 nm<br>19 km | 300.84<br>313.66        | 3.00  | 12 ft<br>12 m |
| 31R    | GS      | IRTH  | 111.50 MHz | 10 nm<br>19 km | 300.87<br>313.69        | 3.00  | 12 ft<br>12 m |