

# VHHH

Hong Kong Intl

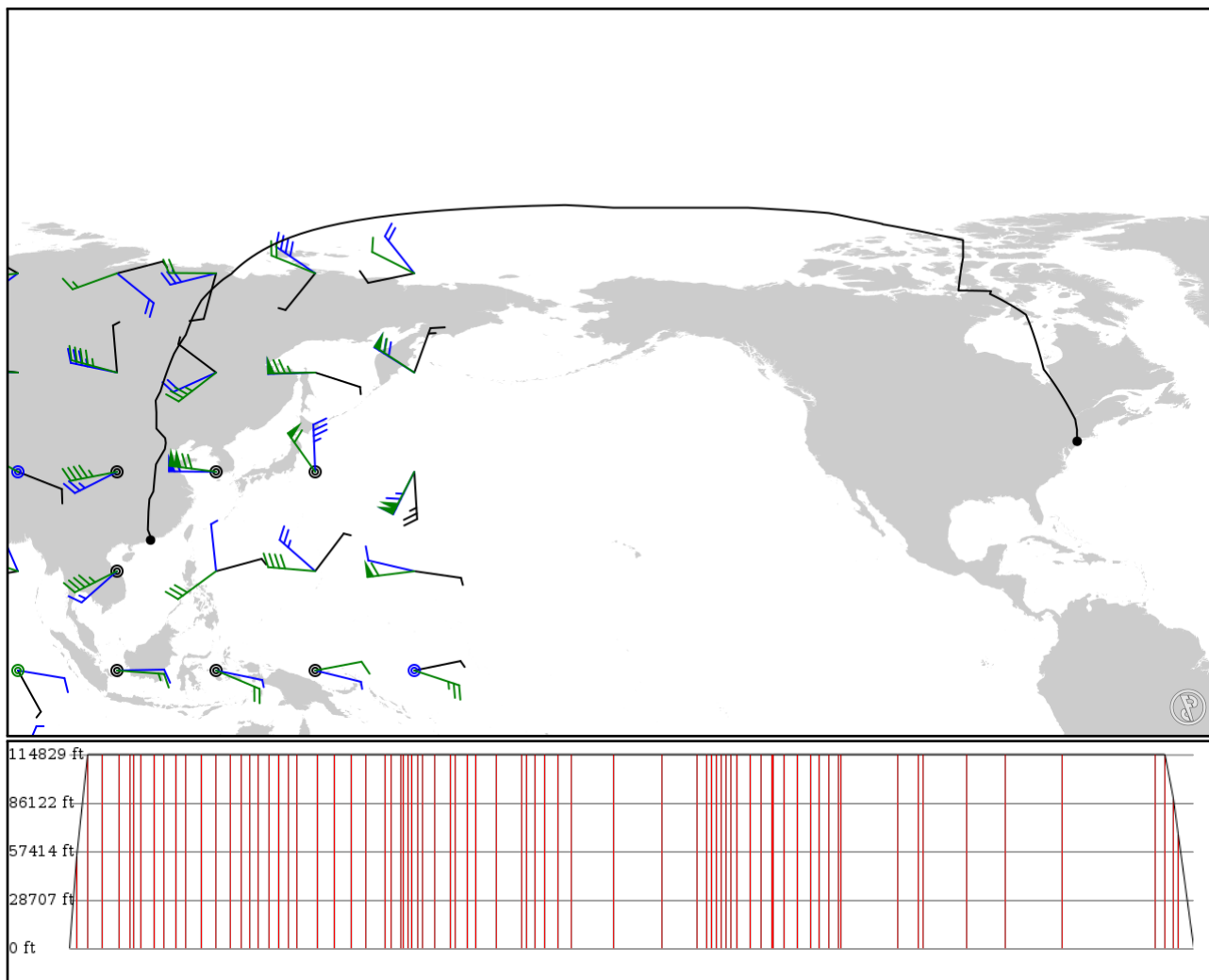
# KJFK

John F Kennedy Intl

2024/05/03 2240Z

VHHH SHL **A461** VYK **6AW1** GM **B339** SALIS 4300N11500E 4400N11500E 4500N11500E 4600N11500E DORUT **G218**  
SULOK **G491** RAMEL 8400N16000W 8400N15500W 8400N15000W 8400N14500W 8400N14000W 8400N13500W OVDON  
8300N12000W 8200N11500W 8100N11000W TAPSA 8000N10500W 7900N10000W 7800N09500W 7700N09500W  
7600N09500W 7500N09500W **BR84** RB **AR22** YHK **RR30** YBB N6800 **NCA32** VIRSO **NCA30** BUGSY **J570** ALB **J37**  
ATHOS KJFK

7269.44 nm / 13463.00 km



## Notes

Basic altitude profile:

- Ascent Rate: 2500ft/min
- Ascent Speed: 250kts
- Cruise Altitude: 38000ft
- Cruise Speed: 420kts
- Descent Rate: 1500ft/min
- Descent Speed: 250kts

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                 |
|---------------|--------|------------|-----------|--------------|----------------------|
| VHHH          | -      | 22.30899   | 0 ft      | -            | Hong Kong Intl       |
| APT           | -      | 113.91461  | 0 m       |              |                      |
| SHL           | -      | 23.09000   | 16,700 ft | 47           | SHILONG VOR-DME      |
| VOR           | -      | 113.85333  | 5,090 m   |              |                      |
| YIN           | A461   | 24.20667   | 35,000 ft | 71           | YINGDE VOR-DME       |
| VOR           | AWY-LO | 113.41000  | 10,668 m  |              |                      |
| BUBDA         | A461   | 25.87000   | 35,000 ft | 99           | -                    |
| FIX           | AWY-LO | 113.46833  | 10,668 m  |              |                      |
| LIG           | A461   | 27.62667   | 35,000 ft | 105          | LILING VOR-DME       |
| VOR           | AWY-LO | 113.52667  | 10,668 m  |              |                      |
| ENLOK         | A461   | 28.81333   | 35,000 ft | 71           | -                    |
| FIX           | AWY-LO | 113.61500  | 10,668 m  |              |                      |
| DAPRO         | A461   | 29.25667   | 35,000 ft | 26           | -                    |
| FIX           | AWY-LO | 113.64667  | 10,668 m  |              |                      |
| LKO           | A461   | 29.91667   | 35,000 ft | 39           | LONGKOU VOR-DME      |
| VOR           | AWY-LO | 113.69667  | 10,668 m  |              |                      |
| ZF            | A461   | 31.33333   | 35,000 ft | 93           | HEKOU NDB            |
| NDB           | AWY-LO | 114.43333  | 10,668 m  |              |                      |
| OBLIK         | A461   | 32.33000   | 35,000 ft | 60           | -                    |
| FIX           | AWY-LO | 114.52333  | 10,668 m  |              |                      |
| ZHO           | A461   | 33.66167   | 35,000 ft | 80           | ZHOUKOU VOR-DME      |
| VOR           | AWY-LO | 114.64167  | 10,668 m  |              |                      |
| AKOMA         | A461   | 34.69333   | 35,000 ft | 62           | -                    |
| FIX           | AWY-LO | 114.74500  | 10,668 m  |              |                      |
| WXI           | A461   | 36.36333   | 35,000 ft | 100          | WEIXIAN VOR-DME      |
| VOR           | AWY-LO | 114.91667  | 10,668 m  |              |                      |
| HG            | A461   | 37.72333   | 35,000 ft | 90           | -                    |
| NDB           | AWY-LO | 115.71000  | 10,668 m  |              |                      |
| VYK           | A461   | 39.19167   | 35,000 ft | 97           | DAWANGZHUANG VOR-DME |
| VOR           | AWY-LO | 116.57167  | 10,668 m  |              |                      |
| HUR           | 6AW1   | 40.33000   | 35,000 ft | 68           | HUAIROU VOR-DME      |
| VOR           | AWY-LO | 116.74833  | 10,668 m  |              |                      |
| GM            | 6AW1   | 41.23667   | 35,000 ft | 54           | FENGNING NDB         |
| NDB           | AWY-LO | 116.62667  | 10,668 m  |              |                      |
| SALIS         | B339   | 41.95833   | 35,000 ft | 52           | -                    |
| FIX           | AWY-LO | 115.95167  | 10,668 m  |              |                      |
| 4300N11500E   | -      | 43.00000   | 35,000 ft | 75           | -                    |
| LATLON        | -      | 115.00000  | 10,668 m  |              |                      |
| 4400N11500E   | -      | 44.00000   | 35,000 ft | 60           | -                    |
| LATLON        | -      | 115.00000  | 10,668 m  |              |                      |
| 4500N11500E   | -      | 45.00000   | 35,000 ft | 60           | -                    |
| LATLON        | -      | 115.00000  | 10,668 m  |              |                      |
| 4600N11500E   | -      | 46.00000   | 35,000 ft | 60           | -                    |
| LATLON        | -      | 115.00000  | 10,668 m  |              |                      |
| DORUT         | -      | 48.19919   | 35,000 ft | 132          | -                    |
| FIX           | -      | 114.86087  | 10,668 m  |              |                      |
| SULOK         | G218   | 49.90000   | 35,000 ft | 107          | -                    |
| FIX           | AWY-LO | 115.75000  | 10,668 m  |              |                      |
| DEDUN         | G491   | 51.63722   | 35,000 ft | 106          | -                    |
| FIX           | AWY-LO | 116.30056  | 10,668 m  |              |                      |
| GABAL         | G491   | 53.22056   | 35,000 ft | 97           | -                    |
| FIX           | AWY-LO | 116.84056  | 10,668 m  |              |                      |
| TINEG         | G491   | 55.16222   | 35,000 ft | 119          | -                    |

| Ident<br>Type | Via    | Lat<br>Lon | Alt       | Dist<br>(nm) | Name         |
|---------------|--------|------------|-----------|--------------|--------------|
| FIX           | AWY-LO | 117.56389  | 10,668 m  |              |              |
| URIPA         | G491   | 55.84222   | 35,000 ft | 41           | -            |
| FIX           | AWY-LO | 117.83556  | 10,668 m  |              |              |
| IDRAN         | G491   | 56.91722   | 35,000 ft | 66           | -            |
| FIX           | AWY-LO | 118.28417  | 10,668 m  |              |              |
| SADIR         | G491   | 57.07722   | 35,000 ft | 10           | -            |
| FIX           | AWY-LO | 118.37750  | 10,668 m  |              |              |
| UNARU         | G491   | 57.58556   | 35,000 ft | 31           | -            |
| FIX           | AWY-LO | 118.66750  | 10,668 m  |              |              |
| RIKLI         | G491   | 58.00222   | 35,000 ft | 26           | -            |
| FIX           | AWY-LO | 118.91417  | 10,668 m  |              |              |
| ABDIR         | G491   | 58.64167   | 35,000 ft | 40           | -            |
| FIX           | AWY-LO | 119.30500  | 10,668 m  |              |              |
| LIVNO         | G491   | 59.11167   | 35,000 ft | 29           | -            |
| FIX           | AWY-LO | 119.60667  | 10,668 m  |              |              |
| UEMO          | G491   | 60.39998   | 35,000 ft | 81           | Olekminsk    |
| APT           | AWY-LO | 120.46877  | 10,668 m  |              |              |
| DEBED         | G491   | 62.01722   | 35,000 ft | 98           | -            |
| FIX           | AWY-LO | 121.07250  | 10,668 m  |              |              |
| NAROV         | G491   | 62.55722   | 35,000 ft | 32           | -            |
| FIX           | AWY-LO | 121.28583  | 10,668 m  |              |              |
| CZ            | G491   | 63.74389   | 35,000 ft | 72           | VILYUYSK NDB |
| NDB           | AWY-LO | 121.78444  | 10,668 m  |              |              |
| BABED         | G491   | 64.68167   | 35,000 ft | 57           | -            |
| FIX           | AWY-LO | 122.23333  | 10,668 m  |              |              |
| UEVV          | G491   | 66.79523   | 35,000 ft | 129          | Zhigansk     |
| APT           | AWY-LO | 123.36291  | 10,668 m  |              |              |
| ABDAG         | G491   | 69.45417   | 35,000 ft | 169          | -            |
| FIX           | AWY-LO | 125.95806  | 10,668 m  |              |              |
| TEMGA         | G491   | 69.88417   | 35,000 ft | 27           | -            |
| FIX           | AWY-LO | 126.44167  | 10,668 m  |              |              |
| BULUN         | G491   | 70.68417   | 35,000 ft | 51           | -            |
| FIX           | AWY-LO | 127.40167  | 10,668 m  |              |              |
| UEST          | G491   | 71.69767   | 35,000 ft | 67           | Tiksi        |
| APT           | AWY-LO | 128.90303  | 10,668 m  |              |              |
| ASLAR         | G491   | 73.02083   | 35,000 ft | 83           | -            |
| FIX           | AWY-LO | 130.31222  | 10,668 m  |              |              |
| TIGLA         | G491   | 74.33417   | 35,000 ft | 83           | -            |
| FIX           | AWY-LO | 131.97583  | 10,668 m  |              |              |
| UNELI         | G491   | 78.53417   | 35,000 ft | 275          | -            |
| FIX           | AWY-LO | 140.00389  | 10,668 m  |              |              |
| PETUL         | G491   | 82.73389   | 35,000 ft | 315          | -            |
| FIX           | AWY-LO | 160.00861  | 10,668 m  |              |              |
| RAMEL         | G491   | 84.50000   | 35,000 ft | 228          | -            |
| FIX           | AWY-LO | -168.97333 | 10,668 m  |              |              |
| 8400N16000W   | -      | 84.00000   | 35,000 ft | 61           | -            |
| LATLON        | -      | -160.00000 | 10,668 m  |              |              |
| 8400N15500W   | -      | 84.00000   | 35,000 ft | 31           | -            |
| LATLON        | -      | -155.00000 | 10,668 m  |              |              |
| 8400N15000W   | -      | 84.00000   | 35,000 ft | 31           | -            |
| LATLON        | -      | -150.00000 | 10,668 m  |              |              |
| 8400N14500W   | -      | 84.00000   | 35,000 ft | 31           | -            |
| LATLON        | -      | -145.00000 | 10,668 m  |              |              |
| 8400N14000W   | -      | 84.00000   | 35,000 ft | 31           | -            |
| LATLON        | -      | -140.00000 | 10,668 m  |              |              |
| 8400N13500W   | -      | 84.00000   | 35,000 ft | 31           | -            |

| Ident<br>Type | Via    | Lat<br>Lon | Alt       | Dist<br>(nm) | Name                |
|---------------|--------|------------|-----------|--------------|---------------------|
| LATLON        | -      | -135.00000 | 10,668 m  |              |                     |
| OVDON         | -      | 83.71667   | 35,000 ft | 36           | -                   |
| FIX           | -      | -130.00000 | 10,668 m  |              |                     |
| 8300N12000W   | -      | 83.00000   | 35,000 ft | 81           | -                   |
| LATLON        | -      | -120.00000 | 10,668 m  |              |                     |
| 8200N11500W   | -      | 82.00000   | 35,000 ft | 71           | -                   |
| LATLON        | -      | -115.00000 | 10,668 m  |              |                     |
| 8100N11000W   | -      | 81.00000   | 35,000 ft | 74           | -                   |
| LATLON        | -      | -110.00000 | 10,668 m  |              |                     |
| TAPSA         | -      | 80.93333   | 35,000 ft | 4            | -                   |
| FIX           | -      | -110.00000 | 10,668 m  |              |                     |
| 8000N10500W   | -      | 80.00000   | 35,000 ft | 74           | -                   |
| LATLON        | -      | -105.00000 | 10,668 m  |              |                     |
| 7900N10000W   | -      | 79.00000   | 35,000 ft | 81           | -                   |
| LATLON        | -      | -100.00000 | 10,668 m  |              |                     |
| 7800N09500W   | -      | 78.00000   | 35,000 ft | 84           | -                   |
| LATLON        | -      | -95.00000  | 10,668 m  |              |                     |
| 7700N09500W   | -      | 77.00000   | 35,000 ft | 60           | -                   |
| LATLON        | -      | -95.00000  | 10,668 m  |              |                     |
| 7600N09500W   | -      | 76.00000   | 35,000 ft | 60           | -                   |
| LATLON        | -      | -95.00000  | 10,668 m  |              |                     |
| 7500N09500W   | -      | 75.00000   | 35,000 ft | 60           | -                   |
| LATLON        | -      | -95.00000  | 10,668 m  |              |                     |
| RB            | BR84   | 74.74714   | 35,000 ft | 15           | RESOLUTE BAY NDB    |
| NDB           | AWY-LO | -94.99503  | 10,668 m  |              |                     |
| YHK           | AR22   | 68.62611   | 35,000 ft | 367          | GJOA HAVEN NDB      |
| NDB           | AWY-LO | -95.85833  | 10,668 m  |              |                     |
| YBB           | RR30   | 68.53500   | 35,000 ft | 133          | KUGAARUK NDB        |
| NDB           | AWY-LO | -89.78778  | 10,668 m  |              |                     |
| N6800         | -      | 68.00000   | 35,000 ft | 32           | -                   |
| FIX           | -      | -90.00000  | 10,668 m  |              |                     |
| YZS           | NCA32  | 64.14850   | 35,000 ft | 282          | CORAL HARBOUR NDB   |
| NDB           | AWY-HI | -83.30475  | 10,668 m  |              |                     |
| N6000         | NCA32  | 60.00000   | 35,000 ft | 253          | -                   |
| FIX           | AWY-HI | -81.73333  | 10,668 m  |              |                     |
| VIRSO         | NCA32  | 54.00000   | 35,000 ft | 364          | -                   |
| FIX           | AWY-HI | -80.00000  | 10,668 m  |              |                     |
| BUGSY         | NCA30  | 44.72265   | 35,000 ft | 601          | -                   |
| FIX           | AWY-HI | -74.14141  | 10,668 m  |              |                     |
| NIPPY         | J570   | 43.68974   | 35,000 ft | 62           | -                   |
| FIX           | AWY-HI | -73.96854  | 10,668 m  |              |                     |
| ALB           | J570   | 42.74728   | 27,100 ft | 57           | ALBANY VORTAC       |
| VOR           | AWY-HI | -73.80319  | 8,260 m   |              |                     |
| ATHOS         | J37    | 42.24708   | 20,600 ft | 30           | -                   |
| FIX           | AWY-HI | -73.81210  | 6,279 m   |              |                     |
| KJFK          | -      | 40.63990   | 0 ft      | 96           | John F Kennedy Intl |
| APT           | -      | -73.77666  | 0 m       |              |                     |

## VHHH

Region: HONG KONG  
Timezone: UNKNOWN  
Runways: 2

Elevation: 27 ft / 8 m  
Location: 22.308900 113.915000  
Magnetic Var: 3.236 W

## METAR

VHHH 032230Z 10015KT 9999 -SHRA FEW006 FEW010CB SCT018 25/23 Q1009 TEMPO 3000 TSRA SHRA FEW008CB SCT015

## TAF

TAF AMD VHHH 032201Z 0322/0503 12015KT 9999 FEW015 SCT020 TX27/0406Z TN24/0322Z TN24/0422Z TEMPO 0322/0404 3000 T

## Frequencies

|   |   |
|---|---|
| REC - 128.20 MHz - D-ATIS                       | REC - 127.05 MHz - D-ATIS                       |
| GND - 121.60 MHz - HONG KONG GROUND             | GND - 122.55 MHz - HONG KONG GROUND             |
| GND - 121.87 MHz - HONG KONG GROUND             | TWR - 118.20 MHz - HONG KONG TOWER              |
| TWR - 118.40 MHz - HONG KONG TOWER              | TWR - 118.70 MHz - HONG KONG TOWER              |
| CLD - 124.65 MHz - HONG KONG CLEARANCE DELIVERY | CLD - 129.90 MHz - HONG KONG CLEARANCE DELIVERY |
| DEP - 122.00 MHz - HONG KONG DEPARTURE          | DEP - 123.80 MHz - HONG KONG DEPARTURE          |
| DEP - 124.05 MHz - HONG KONG DEPARTURE          | APP - 119.10 MHz - HONG KONG APPROACH           |
| APP - 119.35 MHz - HONG KONG APPROACH           | APP - 119.55 MHz - HONG KONG DIRECT             |

## Runways

| Ident | Width  | Length    | Bearing (true)<br>(mag) | Surface | Threshold<br>Offset | Overrun<br>Length |
|-------|--------|-----------|-------------------------|---------|---------------------|-------------------|
| 07L   | 197 ft | 12,462 ft | 70.77                   | ASPHALT | 554 ft              | 974 ft            |
|       | 60 m   | 3,799 m   | 74.01                   |         | 169 m               | 297 m             |
| 25R   | 197 ft | 12,462 ft | 250.79                  | ASPHALT | 571 ft              | 978 ft            |
|       | 60 m   | 3,799 m   | 254.02                  |         | 174 m               | 298 m             |
| 07R   | 197 ft | 12,463 ft | 70.79                   | ASPHALT | 518 ft              | 886 ft            |
|       | 60 m   | 3,799 m   | 74.02                   |         | 158 m               | 270 m             |
| 25L   | 197 ft | 12,463 ft | 250.80                  | ASPHALT | 0 ft                | 981 ft            |
|       | 60 m   | 3,799 m   | 254.04                  |         | 0 m                 | 299 m             |

## Approach Nav aids

| Runway | Type    | Ident | Frequency  | Range | Bearing (true)<br>(mag) | Slope | Elevation |
|--------|---------|-------|------------|-------|-------------------------|-------|-----------|
| 07L    | DME     | IZSL  | 111.10 MHz | 18 nm | -                       | -     | 18 ft     |
|        |         |       |            | 33 km | -                       |       | 18 m      |
| 07R    | DME     | ISR   | 109.30 MHz | 18 nm | -                       | -     | 19 ft     |
|        |         |       |            | 33 km | -                       |       | 19 m      |
| 25L    | DME     | IFL   | 108.90 MHz | 18 nm | -                       | -     | 19 ft     |
|        |         |       |            | 33 km | -                       |       | 19 m      |
| 25R    | DME     | ITFR  | 110.90 MHz | 18 nm | -                       | -     | 19 ft     |
|        |         |       |            | 33 km | -                       |       | 19 m      |
| 07L    | LOC-ILS | IZSL  | 111.10 MHz | 18 nm | 70.78                   | -     | 27 ft     |
|        |         |       |            | 33 km | 74.02                   |       | 27 m      |
| 07R    | LOC-ILS | ISR   | 109.30 MHz | 18 nm | 70.79                   | -     | 27 ft     |
|        |         |       |            | 33 km | 74.03                   |       | 27 m      |
| 25L    | LOC-ILS | IFL   | 108.90 MHz | 18 nm | 250.79                  | -     | 27 ft     |
|        |         |       |            | 33 km | 254.03                  |       | 27 m      |
| 25R    | LOC-ILS | ITFR  | 110.90 MHz | 18 nm | 250.78                  | -     | 27 ft     |
|        |         |       |            | 33 km | 254.02                  |       | 27 m      |
| 07L    | GS      | IZSL  | 111.10 MHz | 10 nm | 70.78                   | 3.00  | 27 ft     |
|        |         |       |            | 19 km | 74.02                   |       | 27 m      |

| Runway | Type | Ident | Frequency  | Range | Bearing (true)<br>(mag) | Slope | Elevation |
|--------|------|-------|------------|-------|-------------------------|-------|-----------|
| 07R    | GS   | ISR   | 109.30 MHz | 10 nm | 70.79                   | 3.00  | 27 ft     |
|        |      |       |            | 19 km | 74.03                   |       | 27 m      |
| 25L    | GS   | IFL   | 108.90 MHz | 10 nm | 250.79                  | 3.00  | 27 ft     |
|        |      |       |            | 19 km | 254.03                  |       | 27 m      |
| 25R    | GS   | ITFR  | 110.90 MHz | 10 nm | 250.78                  | 3.00  | 27 ft     |
|        |      |       |            | 19 km | 254.02                  |       | 27 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 032151Z 13007KT 10SM FEW022 BKN250 13/08 A3021 RMK A02 SLP228 T01280078

## TAF

TAF AMD KJFK 032000Z 0320/0424 13011G18KT P6SM FEW025 SCT250 FM040000 13009KT P6SM FEW025 SCT250 FM040600 08006KT

## 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 |