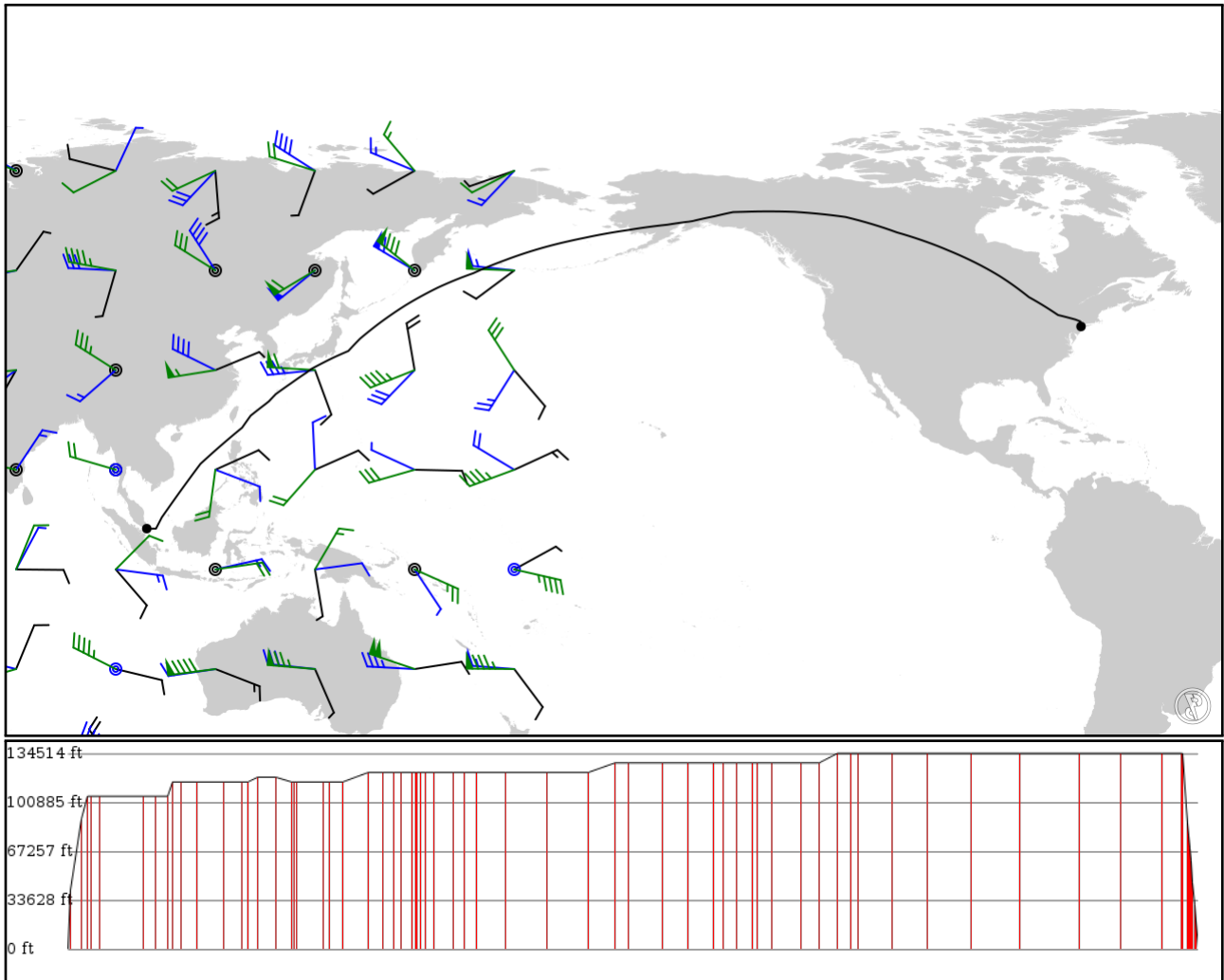


2024/05/20 0837Z

WSSS HOSBA TOMAN +02.147\_+106.194 VERIN LUSMO AKMON UDOSI ALDAS AGSAM ANOKI ARESI AKOTA AVMUP  
ALDIS ABVAR MEVIN MAGMA SADEK KAZIK AMMEK AZAMA TAMAK SHIBK AKTAP YULIA SUKBO DOMBI IGMIS MOSLO  
TASOT LAKOS LIGNI POROT DOVIX PUTER POXED PUGAL PASRO POWAL +51.067\_+167.550 PINSO POOFF PINTT  
PTZGR PUGGY POETT SELDM PORGE HAMND TED GKN ORT +63.000\_-140.000 +63.000\_-130.000  
+62.000\_-120.000 +59.000\_-110.000 +55.500\_-100.000 MISAX SSM BUF HNK +42.010\_-075.176 HELON FLOSI  
CRANK SHAFF SAX PHLBO HOKIR KEWR

8970.25 nm / 16612.90 km



## Notes

None

## Route

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
WSSS	-	1.35921	22 ft	-	-
APT	-	103.98933	7 m		
HOSBA	-	1.33000	12,300 ft	25	-
FIX	-	104.40500	3,749 m		
TOMAN	-	1.36306	27,200 ft	83	-
FIX	-	105.78806	8,291 m		
+02.147_+106.194	-	2.14715	32,000 ft	53	-
LATLON	-	106.19374	9,754 m		
VERIN	-	2.55889	32,000 ft	27	-
FIX	-	106.40694	9,754 m		
LUSMO	-	3.56139	32,000 ft	67	-
FIX	-	106.92611	9,754 m		
AKMON	-	8.21500	32,000 ft	341	-
FIX	-	110.21833	9,754 m		
UDOSI	-	9.54694	32,000 ft	98	-
FIX	-	111.18139	9,754 m		
ALDAS	-	10.94833	32,000 ft	103	-
FIX	-	112.20500	9,754 m		
AGSAM	-	11.47167	35,000 ft	38	-
FIX	-	112.58833	10,668 m		
ANOKI	-	12.36667	35,000 ft	66	-
FIX	-	113.25000	10,668 m		
ARESI	-	13.97333	35,000 ft	119	-
FIX	-	114.45000	10,668 m		
AKOTA	-	16.46194	35,000 ft	218	-
FIX	-	117.20667	10,668 m		
AVMUP	-	17.99333	35,000 ft	136	-
FIX	-	118.95861	10,668 m		
ALDIS	-	18.59778	35,000 ft	54	-
FIX	-	119.66361	10,668 m		
ABVAR	-	19.41417	36,000 ft	73	-
FIX	-	120.62833	10,973 m		
MEVIN	-	21.00000	36,000 ft	144	-
FIX	-	122.55000	10,973 m		
MAGMA	-	22.79755	35,000 ft	128	-
FIX	-	123.81682	10,668 m		
SADEK	-	23.00431	35,000 ft	14	-
FIX	-	123.96509	10,668 m		
KAZIK	-	23.35162	35,000 ft	25	-
FIX	-	124.22160	10,668 m		
AMMEK	-	25.59816	35,000 ft	206	-
FIX	-	127.09378	10,668 m		
AZAMA	-	26.16087	35,000 ft	51	-
FIX	-	127.80083	10,668 m		
TAMAK	-	27.53141	35,000 ft	107	-
FIX	-	129.09819	10,668 m		
SHIBK	-	29.65402	37,000 ft	202	-
FIX	-	132.08060	11,278 m		
AKTAP	-	30.81166	37,000 ft	110	-
FIX	-	133.73402	11,278 m		
YULIA	-	31.71689	37,000 ft	87	-
FIX	-	135.07631	11,278 m		
SUKBO	-	32.42930	37,000 ft	64	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
FIX	-	136.01358	11,278 m		
DOMBI	-	33.18070	37,000 ft	84	-
FIX	-	137.42547	11,278 m		
IGMIS	-	33.43413	37,000 ft	28	-
FIX	-	137.91364	11,278 m		
MOSLO	-	33.53052	37,000 ft	11	-
FIX	-	138.10101	11,278 m		
TASOT	-	33.73672	37,000 ft	23	-
FIX	-	138.50499	11,278 m		
LAKOS	-	34.12507	37,000 ft	45	-
FIX	-	139.27811	11,278 m		
LIGNI	-	34.69702	37,000 ft	67	-
FIX	-	140.44785	11,278 m		
POROT	-	35.92973	37,000 ft	155	-
FIX	-	143.22818	11,278 m		
DOVIX	-	37.03524	37,000 ft	82	-
FIX	-	144.25763	11,278 m		
PUTER	-	38.33238	37,000 ft	98	-
FIX	-	145.51868	11,278 m		
POXED	-	41.08459	37,000 ft	228	-
FIX	-	148.94239	11,278 m		
PUGAL	-	44.85771	37,000 ft	330	-
FIX	-	154.41668	11,278 m		
PASRO	-	48.27900	37,000 ft	330	-
FIX	-	160.68131	11,278 m		
POWAL	-	50.17458	39,000 ft	208	-
FIX	-	165.12328	11,887 m		
+51.067_+167.550	-	51.06667	39,000 ft	106	-
LATLON	-	167.55000	11,887 m		
PINSO	-	53.53447	39,000 ft	265	-
FIX	-	173.54752	11,887 m		
POOFF	-	55.32344	39,000 ft	210	-
FIX	-	178.72709	11,887 m		
PINTT	-	56.82327	39,000 ft	201	-
FIX	-	-175.88054	11,887 m		
PTZGR	-	57.33535	39,000 ft	77	-
FIX	-	-173.68473	11,887 m		
PUGGY	-	57.95722	39,000 ft	100	-
FIX	-	-170.76480	11,887 m		
POETT	-	58.70296	39,000 ft	127	-
FIX	-	-166.99044	11,887 m		
SELDM	-	58.88771	39,000 ft	34	-
FIX	-	-165.94889	11,887 m		
PORGE	-	59.45739	39,000 ft	116	-
FIX	-	-162.32174	11,887 m		
HAMND	-	60.49854	39,000 ft	237	-
FIX	-	-154.67673	11,887 m		
TED	-	61.16787	39,000 ft	143	-
VOR	-	-149.96014	11,887 m		
GKN	-	62.15375	41,000 ft	141	-
VOR	-	-145.44736	12,497 m		
ORT	-	62.94720	41,000 ft	108	-
VOR	-	-141.91261	12,497 m		
+63.000_-140.000	-	63.00000	41,000 ft	52	-
LATLON	-	-140.00000	12,497 m		
+63.000_-130.000	-	63.00000	41,000 ft	272	-

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
LATLON	-	-130.00000	12,497 m		
+62.000_-120.000	-	62.00000	41,000 ft	283	-
LATLON	-	-120.00000	12,497 m		
+59.000_-110.000	-	59.00000	41,000 ft	345	-
LATLON	-	-110.00000	12,497 m		
+55.500_-100.000	-	55.50000	41,000 ft	386	-
LATLON	-	-100.00000	12,497 m		
MISAX	-	50.50000	41,000 ft	469	-
FIX	-	-90.00000	12,497 m		
SSM	-	46.41211	41,000 ft	333	-
VOR	-	-84.31487	12,497 m		
BUF	-	42.92900	41,000 ft	319	-
VOR	-	-78.64634	12,497 m		
HNK	-	42.06306	41,000 ft	156	-
VOR	-	-75.31628	12,497 m		
+42.010_-075.176	-	42.01040	41,000 ft	7	-
LATLON	-	-75.17623	12,497 m		
HELON	-	41.66742	26,400 ft	45	-
FIX	-	-74.28042	8,047 m		
FLOSI	-	41.54353	23,800 ft	7	-
FIX	-	-74.33410	7,254 m		
CRANK	-	41.41661	21,200 ft	8	-
FIX	-	-74.38887	6,462 m		
SHAFF	-	41.28971	18,500 ft	8	-
FIX	-	-74.44341	5,639 m		
SAX	-	41.06754	14,000 ft	14	-
VOR	-	-74.53831	4,267 m		
PHLBO	-	40.83039	9,400 ft	14	-
FIX	-	-74.56019	2,865 m		
HOKIR	-	40.65560	5,900 ft	10	-
FIX	-	-74.55088	1,798 m		
KEWR	-	40.69248	17 ft	17	-
APT	-	-74.16869	5 m		

## WSSS

Region: SINGAPORE

Timezone: ASIA/SINGAPORE

Runways: 2

Elevation: 20 ft / 6 m

Location: 1.355510 103.988000

Magnetic Var: 0.198 E

## METAR

WSSS 200800Z 15007KT 9999 FEW017 FEW020TCU SCT170 29/25 Q1006 NOSIG

## TAF

TAF AMD WSSS 200800Z 2008/2112 16009KT 9999 FEW015 SCT020

## Frequencies

DEP - 123.70 MHz - SINGAPORE RADAR	DEP - 127.30 MHz - SINGAPORE RADAR
DEP - 133.80 MHz - SINGAPORE RADAR	DEP - 133.25 MHz - SINGAPORE RADAR
DEP - 135.80 MHz - SINGAPORE RADAR	DEP - 134.20 MHz - SINGAPORE RADAR
DEP - 133.35 MHz - SINGAPORE RADAR	DEP - 134.40 MHz - SINGAPORE RADAR
DEP - 128.10 MHz - SINGAPORE RADAR	DEP - 255.40 MHz - SINGAPORE RADAR
DEP - 124.05 MHz - SINGAPORE RADAR	APP - 120.30 MHz - SINGAPORE APPROACH
APP - 124.60 MHz - SINGAPORE APPROACH	APP - 119.30 MHz - SINGAPORE ARRIVAL
TWR - 118.60 MHz - SINGAPORE TOWER	TWR - 118.25 MHz - SINGAPORE TOWER
GND - 124.30 MHz - SINGAPORE GROUND	GND - 121.72 MHz - SINGAPORE GROUND
GND - 121.85 MHz - SINGAPORE GROUND	GND - 121.00 MHz - SINGAPORE GROUND EMERGENCY
GND - 122.55 MHz - SINGAPORE GROUND	CLD - 121.65 MHz - SINGAPORE DELIVERY
CLD - 119.60 MHz - SINGAPORE DELIVERY	REC - 128.60 MHz -
REC - 128.02 MHz -	CHANGI AIRPORT INFORMATION (D-ATIS)
CHANGI AIRPORT ARRIVAL INFORMATION	

## Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
02L	197 ft	13,187 ft	22.88	ASPHALT	0 ft	0 ft
	60 m	4,020 m	22.68		0 m	0 m
20R	197 ft	13,187 ft	202.88	ASPHALT	2,428 ft	390 ft
	60 m	4,020 m	202.68		740 m	119 m
02C	197 ft	13,187 ft	22.88	ASPHALT	0 ft	0 ft
	60 m	4,020 m	22.68		0 m	0 m
20C	197 ft	13,187 ft	202.88	ASPHALT	0 ft	0 ft
	60 m	4,020 m	202.68		0 m	0 m

## Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
02C	DME	ICE	108.30 MHz	18 nm	-	-	15 ft
				33 km	-		15 m
02L	DME	ICW	110.90 MHz	18 nm	-	-	20 ft
				33 km	-		20 m
20C	DME	ICC	109.70 MHz	18 nm	-	-	15 ft
				33 km	-		15 m
20R	DME	ICH	108.90 MHz	18 nm	-	-	22 ft
				33 km	-		22 m
02C	LOC-ILS	ICE	108.30 MHz	18 nm	22.88	-	20 ft
				33 km	22.68		20 m
02L	LOC-ILS	ICW	110.90 MHz	18 nm	22.88	-	20 ft

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
				33 km	22.68		20 m
20C	LOC-ILS	ICC	109.70 MHz	18 nm	202.88	-	20 ft
				33 km	202.68		20 m
20R	LOC-ILS	ICH	108.90 MHz	18 nm	202.88	-	20 ft
				33 km	202.68		20 m
02C	GS	ICE	108.30 MHz	10 nm	22.88	3.00	20 ft
				19 km	22.68		20 m
02L	GS	ICW	110.90 MHz	10 nm	22.88	3.00	20 ft
				19 km	22.68		20 m
20C	GS	ICC	109.70 MHz	10 nm	202.88	3.00	20 ft
				19 km	202.68		20 m
20R	GS	ICH	108.90 MHz	10 nm	202.88	3.00	20 ft
				19 km	202.68		20 m

## KEWR

Region: UNITED STATES  
Timezone: AMERICA/NEW\_YORK  
Runways: 3

Elevation: 17 ft / 5 m  
Location: 40.693600 -74.168600  
Magnetic Var: 12.650 W

## METAR

KEWR 200751Z 30003KT 10SM FEW050 14/12 A3003 RMK AO2 SLP167 T01390117 \$

## TAF

KEWR 200539Z 2006/2112 VRB04KT P6SM SCT040 FM201000 02005KT P6SM BKN030 TEMPO 2010/2013 BKN025 FM201500 09005KT P

## Frequencies

REC - 115.70 MHz - D-ATIS	REC - 134.82 MHz - D-ATIS
COM - 122.95 MHz - UNICOM	CLD - 118.85 MHz - CLEARANCE DELIVERY
GND - 121.80 MHz - NEWARK GROUND	GND - 126.15 MHz - NEWARK GROUND
GND - 132.45 MHz - RAMP CONTROL	TWR - 118.30 MHz - NEWARK TOWER
TWR - 134.05 MHz - NEWARK TOWER	APP - 127.60 MHz - NEW YORK APPROACH
APP - 128.55 MHz - NEW YORK APPROACH	APP - 132.70 MHz - NEW YORK APPROACH
APP - 132.80 MHz - NEW YORK APPROACH	DEP - 119.20 MHz - NEW YORK DEPARTURE

## Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
04L	150 ft	11,011 ft	25.75	ASPHALT	2,539 ft	610 ft
	46 m	3,356 m	38.40		774 m	186 m
22R	150 ft	11,011 ft	205.76	ASPHALT	1,440 ft	0 ft
	46 m	3,356 m	218.41		439 m	0 m
04R	150 ft	10,009 ft	25.74	ASPHALT	1,191 ft	299 ft
	46 m	3,051 m	38.39		363 m	91 m
22L	150 ft	10,009 ft	205.75	ASPHALT	1,791 ft	0 ft
	46 m	3,051 m	218.40		546 m	0 m
11	150 ft	6,732 ft	95.00	ASPHALT	0 ft	505 ft
	46 m	2,052 m	107.65		0 m	154 m
29	150 ft	6,732 ft	275.02	ASPHALT	223 ft	0 ft
	46 m	2,052 m	287.67		68 m	0 m

## Approach Nav aids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
04L	DME	IEWR	110.75 MHz	18 nm	-	-	11 ft
				33 km	-		11 m
04R	DME	IEZA	108.70 MHz	18 nm	-	-	18 ft
				33 km	-		18 m
22L	DME	ILSQ	108.70 MHz	18 nm	-	-	18 ft
				33 km	-		18 m
22R	DME	IJNN	110.75 MHz	18 nm	-	-	11 ft
				33 km	-		11 m
04L	LOC-ILS	IEWR	110.75 MHz	18 nm	25.76	-	17 ft
				33 km	38.41		17 m
04R	LOC-ILS	IEZA	108.70 MHz	18 nm	25.75	-	17 ft
				33 km	38.40		17 m
11	LOC-ILS	IGPR	109.15 MHz	18 nm	95.01	-	17 ft
				33 km	107.66		17 m

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
22L	LOC-ILS	ILSQ	108.70 MHz	18 nm	205.75	-	17 ft
				33 km	218.40		17 m
22R	LOC-ILS	IJNN	110.75 MHz	18 nm	205.76	-	17 ft
				33 km	218.41		17 m
04L	GS	IEWR	110.75 MHz	10 nm	25.76	3.00	17 ft
				19 km	38.41		17 m
04R	GS	IEZA	108.70 MHz	10 nm	25.75	3.00	17 ft
				19 km	38.40		17 m
11	GS	IGPR	109.15 MHz	10 nm	95.01	3.00	17 ft
				19 km	107.66		17 m
22L	GS	ILSQ	108.70 MHz	10 nm	205.75	3.00	17 ft
				19 km	218.40		17 m
22R	GS	IJNN	110.75 MHz	10 nm	205.76	3.00	17 ft
				19 km	218.41		17 m