KMSP
Minneapolis St Paul Intl

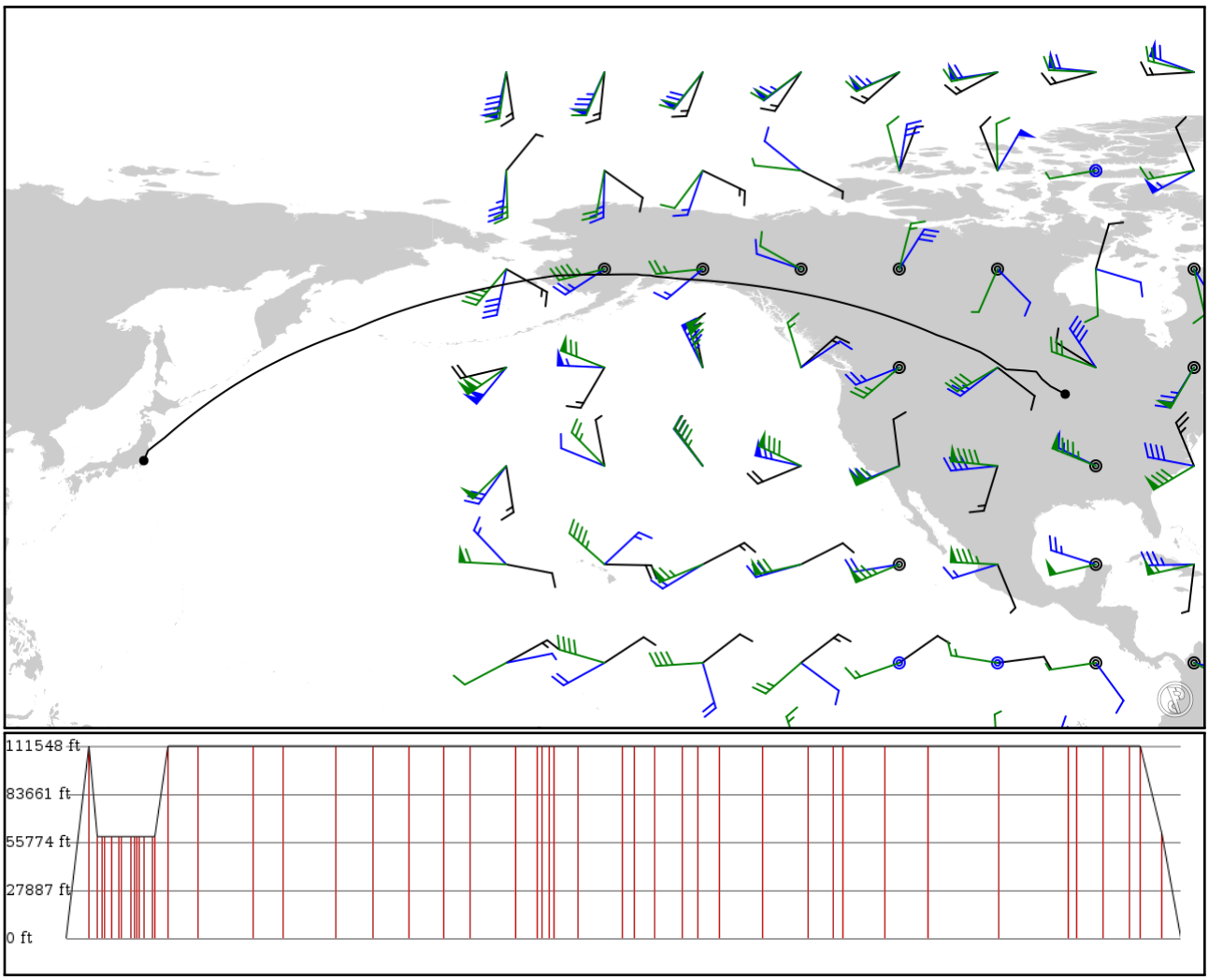
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RJAA
NARITA INTL

2024/03/29 0717Z

KMSP AXN **V171** GFK **V430** MOT **J483** VLN **J475** YWV **NCA11** YESKA **J133** ANC **J501** YONEK NODLE **R220** NATES **M** NIKLL **R220** IXE RJAA

5216.43 nm / 9660.83 km



Notes

Basic altitude profile:
- Ascent Rate: 2500ft/min
- Ascent Speed: 250kts
- Cruise Altitude: 35000ft
- 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
Using PACOT tracks from 15/5/2016

Route

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
KMSP APT	–	44.88195 -93.22201	0 ft 0 m	–	Minneapolis St Paul Intl
AXN VOR	–	45.95839 -95.23264	34,000 ft 10,363 m	106	ALEXANDRIA VOR-DME
STARR FIX	V171 AWY-LO	46.50360 -95.87411	18,000 ft 5,486 m	42	–
ROLAG FIX	V171 AWY-LO	46.80372 -96.23458	18,000 ft 5,486 m	23	–
APRIW FIX	V171 AWY-LO	46.93897 -96.39881	18,000 ft 5,486 m	10	–
SHELS FIX	V171 AWY-LO	47.43789 -96.78078	18,000 ft 5,486 m	33	–
GFK VOR	V171 AWY-LO	47.95483 -97.18537	18,000 ft 5,486 m	35	–
DITRE FIX	V430 AWY-LO	47.98407 -97.47980	18,000 ft 5,486 m	11	–
NERDE FIX	V430 AWY-LO	48.08314 -98.54263	18,000 ft 5,486 m	43	–
DVL DME	V430 AWY-LO	48.11522 -98.91251	18,000 ft 5,486 m	14	DEVILS LAKE VOR-DME
SCULY FIX	V430 AWY-LO	48.13925 -99.25503	18,000 ft 5,486 m	13	–
CAREW FIX	V430 AWY-LO	48.15788 -99.53132	18,000 ft 5,486 m	11	–
BALTA FIX	V430 AWY-LO	48.19075 -100.04756	18,000 ft 5,486 m	20	–
ORMIE FIX	V430 AWY-LO	48.24350 -100.96383	18,000 ft 5,486 m	36	–
MOT VOR	V430 AWY-LO	48.26033 -101.28706	18,000 ft 5,486 m	12	MINOT VORTAC
MOT61 FIX	J483 AWY-HI	48.99905 -102.34071	34,000 ft 10,363 m	60	–
VLN VOR	J483 AWY-HI	50.66700 -104.89031	34,000 ft 10,363 m	140	LUMSDEN VORTAC
YWV VOR	J475 AWY-HI	52.98139 -110.83333	34,000 ft 10,363 m	260	WAINWRIGHT VOR-DME
NUBEG FIX	NCA11 AWY-HI	54.28167 -113.98500	34,000 ft 10,363 m	136	–
LEPET FIX	NCA11 AWY-HI	56.42667 -120.27167	34,000 ft 10,363 m	250	–
BINGA FIX	NCA11 AWY-HI	57.70197 -125.00000	34,000 ft 10,363 m	172	–
OMLOK FIX	NCA11 AWY-HI	58.77933 -130.00000	34,000 ft 10,363 m	170	–
ARIUS FIX	NCA11 AWY-HI	59.61000 -135.00000	34,000 ft 10,363 m	161	–
COHIL FIX	NCA11 AWY-HI	60.10861 -139.00000	34,000 ft 10,363 m	124	–
REMBY FIX	NCA11 AWY-HI	60.66667 -146.00000	34,000 ft 10,363 m	210	–
YESKA FIX	NCA11 AWY-HI	61.00022 -149.33384	34,000 ft 10,363 m	99	–
ANC	J133	61.15081	34,000 ft	26	–

Ident Type	Via	Lat Lon	Alt	Dist (nm)	Name
VOR	AWY-HI	-150.20656	10,363 m		
YONEK	J501	61.17305	34,000 ft	29	-
FIX	AWY-HI	-151.23564	10,363 m		
NODLE	-	61.28333	34,000 ft	23	-
FIX	-	-152.00000	10,363 m		
NICHO	R220	61.25000	34,000 ft	115	-
FIX	AWY-HI	-156.00000	10,363 m		
NOSHO	R220	61.11667	34,000 ft	202	-
FIX	AWY-HI	-163.00000	10,363 m		
NEONN	R220	60.82202	34,000 ft	61	-
FIX	AWY-HI	-165.01011	10,363 m		
NANZA	R220	60.30831	34,000 ft	94	-
FIX	AWY-HI	-168.04322	10,363 m		
NOLTI	R220	59.53844	34,000 ft	124	-
FIX	AWY-HI	-171.89603	10,363 m		
NAYLD	R220	59.05239	34,000 ft	76	-
FIX	AWY-HI	-174.20778	10,363 m		
NULUK	R220	58.38203	34,000 ft	98	-
FIX	AWY-HI	-177.10239	10,363 m		
NANDY	R220	56.83289	34,000 ft	201	-
FIX	AWY-HI	177.34817	10,363 m		
NATES	R220	54.92769	34,000 ft	213	-
FIX	AWY-HI	171.98017	10,363 m		
NIKLL	M	53.74642	34,000 ft	119	-
FIX	PACOT	169.23181	10,363 m		
NYMPH	R220	53.40878	34,000 ft	40	-
FIX	AWY-HI	168.23983	10,363 m		
NUZAN	R220	51.65764	34,000 ft	198	-
FIX	AWY-HI	163.64494	10,363 m		
NIPPI	R220	49.71067	34,000 ft	201	-
FIX	AWY-HI	159.34675	10,363 m		
NOGAL	R220	46.21667	34,000 ft	330	-
FIX	AWY-HI	153.00333	10,363 m		
NUBDA	R220	42.39106	34,000 ft	330	-
FIX	AWY-HI	147.47575	10,363 m		
NANNO	R220	41.91667	34,000 ft	39	-
FIX	AWY-HI	146.86000	10,363 m		
NODAN	R220	40.42000	34,000 ft	123	-
FIX	AWY-HI	144.99667	10,363 m		
NANAC	R220	38.90631	34,000 ft	122	-
FIX	AWY-HI	143.22799	10,363 m		
NIKON	R220	38.32538	34,000 ft	49	-
FIX	AWY-HI	142.46599	10,363 m		
IXE	R220	37.14886	18,600 ft	100	IWAKI VOR-DME
VOR	AWY-HI	140.97569	5,669 m		
RJAA	-	35.77655	0 ft	87	NARITA INTL
APT	-	140.38277	0 m		

KMSP

Region: UNITED STATES
Timezone: AMERICA/CHICAGO
Runways: 4
Elevation: 841 ft / 256 m
Location: 44.881900 -93.222000
Magnetic Var: 0.268 W

METAR

KMSP 290653Z 00000KT 10SM SCT240 M03/M08 A3006 RMK AO2 SLP188 T10281083

TAF

TAF KMSP 290520Z 2906/3012 28005KT P6SM FEW250 FM291300 10006KT P6SM BKN150 FM300000 08010KT 6SM -RA BR OVC030 FM3

Frequencies

DEP - 132.97 MHz - MINNEAPOLIS DEPARTURE
DEP - 125.75 MHz - MINNEAPOLIS DEPARTURE
DEP - 124.70 MHz - MINNEAPOLIS DEPARTURE
APP - 126.95 MHz - MINNEAPOLIS APPROACH
APP - 119.30 MHz - MINNEAPOLIS APPROACH
APP - 118.72 MHz - MINNEAPOLIS APPROACH
TWR - 126.70 MHz - MINNEAPOLIS TOWER
TWR - 123.95 MHz - MINNEAPOLIS TOWER
TWR - 123.67 MHz - MINNEAPOLIS TOWER
GND - 133.57 MHz - MINNEAPOLIS GROUND
GND - 127.92 MHz - MINNEAPOLIS GROUND
GND - 121.90 MHz - MINNEAPOLIS GROUND
GND - 121.80 MHz - MINNEAPOLIS GROUND
REC - 120.80 MHz - MINNEAPOLIS D-ATIS
REC - 135.35 MHz - MINNEAPOLIS D-ATIS
COM - 122.95 MHz - MINNEAPOLIS UNICOM
CLD - 133.20 MHz - MINNEAPOLIS CLEARANCE DELIVERY

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
17	150 ft 46 m	8,008 ft 2,441 m	169.56 169.83	CONCRETE	0 ft 0 m	397 ft 121 m
35	150 ft 46 m	8,008 ft 2,441 m	349.56 349.83	CONCRETE	0 ft 0 m	394 ft 120 m
12L	150 ft 46 m	8,190 ft 2,496 m	121.42 121.69	CONCRETE	0 ft 0 m	397 ft 121 m
30R	150 ft 46 m	8,190 ft 2,496 m	301.44 301.70	CONCRETE	203 ft 62 m	394 ft 120 m
12R	200 ft 61 m	9,985 ft 3,043 m	121.42 121.69	CONCRETE	0 ft 0 m	1,194 ft 364 m
30L	200 ft 61 m	9,985 ft 3,043 m	301.44 301.71	CONCRETE	0 ft 0 m	781 ft 238 m
04	150 ft 46 m	11,118 ft 3,389 m	44.90 45.17	CONCRETE	1,660 ft 506 m	0 ft 0 m
22	150 ft 46 m	11,118 ft 3,389 m	224.92 225.19	CONCRETE	0 ft 0 m	410 ft 125 m

Approach Navaids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
12L	DME	IPJL	110.70 MHz	18 nm 33 km	- -	-	813 ft 813 m
12R	DME	IHKZ	110.30 MHz	18 nm 33 km	- -	-	841 ft 841 m
17	DME	ITJZ	110.95 MHz	18 nm 33 km	- -	-	822 ft 822 m
30L	DME	IMSP	110.30 MHz	18 nm 33 km	- -	-	841 ft 841 m

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
30R	DME	IINN	110.70 MHz	18 nm	– –	–	813 ft 813 m
35	DME	IBMA	110.95 MHz	18 nm 33 km	– –	–	822 ft 822 m
12L	LOC-ILS	IPJL	110.70 MHz	18 nm 33 km	121.43 121.70	–	841 ft 841 m
12R	LOC-ILS	IHKZ	110.30 MHz	18 nm 33 km	121.44 121.71	–	841 ft 841 m
30L	LOC-ILS	IMSP	110.30 MHz	18 nm 33 km	301.44 301.71	–	841 ft 841 m
30R	LOC-ILS	IINN	110.70 MHz	18 nm 33 km	301.43 301.70	–	841 ft 841 m
35	LOC-ILS	IBMA	110.95 MHz	18 nm 33 km	349.56 349.83	–	841 ft 841 m
04	LOC-LOC	IAPL	109.30 MHz	18 nm 33 km	44.92 45.19	–	841 ft 841 m
17	LOC-LOC	ITJZ	110.95 MHz	18 nm 33 km	169.56 169.83	–	841 ft 841 m
22	LOC-LOC	ISIJ	110.50 MHz	18 nm 33 km	224.92 225.19	–	841 ft 841 m
12L	GS	IPJL	110.70 MHz	10 nm 19 km	121.43 121.70	3.00	841 ft 841 m
12R	GS	IHKZ	110.30 MHz	10 nm 19 km	121.44 121.71	3.00	841 ft 841 m
30L	GS	IMSP	110.30 MHz	10 nm 19 km	301.44 301.71	3.00	841 ft 841 m
30R	GS	IINN	110.70 MHz	10 nm 19 km	301.43 301.70	3.00	841 ft 841 m
35	GS	IBMA	110.95 MHz	10 nm 19 km	349.56 349.83	3.00	841 ft 841 m

RJAA

Region: JAPAN
Timezone: ASIA/TOKYO
Runways: 2

Elevation: 135 ft / 41 m
Location: 35.777200 140.382000
Magnetic Var: 7.771 W

METAR

RJAA 290700Z 25012G22KT 210V280 9999 FEW020 21/14 Q1002 BECMG 23010KT RMK 1CU020 A2961

TAF

TAF RJAA 290505Z 2906/3012 23008KT 9999 FEW030 BECMG 3000/3003 26008KT BECMG 3006/3009 21005KT

Frequencies

REC - 128.25 MHz - ATIS
TWR - 126.20 MHz - NARITA TOWER
TWR - 118.20 MHz - NARITA TOWER
GND - 121.95 MHz - NARITA GROUND
GND - 121.75 MHz - NARITA GROUND
APP - 124.40 MHz - NARITA APPROACH
APP - 125.80 MHz - NARITA APPROACH
DEP - 120.60 MHz - NARITA DEPARTURE
DEP - 119.60 MHz - NARITA DEPARTURE
DEP - 124.20 MHz - NARITA DEPARTURE
TWR - 122.70 MHz - NARITA TOWER
TWR - 118.35 MHz - NARITA TOWER
GND - 121.85 MHz - NARITA GROUND
GND - 121.60 MHz - NARITA GROUND
APP - 125.20 MHz - NARITA APPROACH
APP - 121.27 MHz - NARITA APPROACH
APP - 127.70 MHz - NARITA APPROACH
DEP - 127.50 MHz - NARITA DEPARTURE
DEP - 125.52 MHz - NARITA DEPARTURE

Runways

Ident	Width	Length	Bearing (true) (mag)	Surface	Threshold Offset	Overrun Length
16R	197 ft 60 m	13,146 ft 4,007 m	149.63 157.40	ASPHALT	0 ft 0 m	407 ft 124 m
34L	197 ft 60 m	13,146 ft 4,007 m	329.64 337.41	ASPHALT	0 ft 0 m	404 ft 123 m
16L	197 ft 60 m	8,210 ft 2,503 m	149.61 157.38	ASPHALT	0 ft 0 m	197 ft 60 m
34R	197 ft 60 m	8,210 ft 2,503 m	329.62 337.39	ASPHALT	0 ft 0 m	0 ft 0 m

Approach Navaids

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
16L	DME	ITM	110.70 MHz	18 nm 33 km	- -	-	145 ft 145 m
16R	DME	IKF	111.50 MHz	18 nm 33 km	- -	-	145 ft 145 m
34L	DME	IYQ	111.90 MHz	18 nm 33 km	- -	-	153 ft 153 m
34R	DME	ITJ	110.90 MHz	18 nm 33 km	- -	-	148 ft 148 m
16L	LOC-ILS	ITM	110.70 MHz	18 nm 33 km	149.64 157.41	-	135 ft 135 m
16R	LOC-ILS	IKF	111.50 MHz	18 nm 33 km	149.62 157.39	-	135 ft 135 m
34L	LOC-ILS	IYQ	111.90 MHz	18 nm 33 km	329.62 337.39	-	135 ft 135 m
34R	LOC-ILS	ITJ	110.90 MHz	18 nm 33 km	329.64 337.41	-	135 ft 135 m

Runway	Type	Ident	Frequency	Range	Bearing (true) (mag)	Slope	Elevation
16L	GS	ITM	110.70 MHz	10 nm	149.64	3.00	135 ft
				19 km	157.41		135 m
16R	GS	IKF	111.50 MHz	10 nm	149.62	3.00	135 ft
				19 km	157.39		135 m
34L	GS	IYQ	111.90 MHz	10 nm	329.62	3.00	135 ft
				19 km	337.39		135 m
34R	GS	ITJ	110.90 MHz	10 nm	329.64	3.00	135 ft
				19 km	337.41		135 m