

RJTT - Tokyo - Tokyo Haneda Intl

Airport details

State	Tōkyō Prefecture
Country	Japan
Region	RJ
Elevation	35ft (11m)
Timezone	GMT +9
Coordinates	35.55333, 139.78111
Type	land
ICAO code	RJTT
IATA code	HND
FAA code	n/a

Runway info

Runway 16R / 34L

length	3004m (9856ft)
bearing	145° / 325°
width	61m (200ft)
surface	asphalt
displacement threshold	480m (1575ft) / 0m (0ft)
blast zone	0m (0ft) / 60m (197ft)

Runway 16L / 34R

length	3366m (11043ft)
bearing	145° / 325°
width	61m (200ft)
surface	asphalt
displacement threshold	387m (1270ft) / 360m (1181ft)
blast zone	60m (197ft) / 60m (197ft)

Runway 05 / 23

length	2503m (8212ft)
bearing	48° / 228°
width	60m (197ft)
surface	asphalt
blast zone	60m (197ft) / 60m (197ft)

Runway 04 / 22

length	2503m (8212ft)
bearing	41° / 221°
width	61m (200ft)
surface	asphalt
blast zone	60m (197ft) / 60m (197ft)

Communication

Tokyo Haneda Intl ATIS	128.800
Tokyo Haneda Intl ATIS	128.800
Tokyo Haneda Intl ATIS	128.800
Tokyo Haneda Intl ATIS	128.800
Tokyo Haneda Intl CLNC DEL	121.825
Tokyo Haneda Intl CLNC DEL	121.875
Tokyo Haneda Intl CLNC DEL	121.825
Tokyo Haneda Intl CLNC DEL	121.875
Tokyo Haneda Intl CLNC DEL	121.875
Tokyo Haneda Intl CLNC DEL	121.875
Tokyo Haneda Intl CLNC DEL	121.825
Tokyo Haneda Intl CLNC DEL	121.825
Tokyo Haneda Intl GND	121.700
Tokyo Haneda Intl GND	121.700
Tokyo Haneda Intl GND	118.225
Tokyo Haneda Intl GND	121.700
Tokyo Haneda Intl GND	118.225
Tokyo Haneda Intl GND	121.700
Tokyo Haneda Intl GND	118.225
Tokyo Haneda Intl GND	118.225
Tokyo Haneda Intl NORTH PACIFIC AREA	126.900
Tokyo Haneda Intl TWR	118.100
Tokyo Haneda Intl TWR	118.800
Tokyo Haneda Intl TWR	124.350
Tokyo Haneda Intl TWR	126.200
Tokyo Haneda Intl TWR	124.350
Tokyo Haneda Intl NORTH PACIFIC AREA	126.900
Tokyo Haneda Intl TWR	118.100
Tokyo Haneda Intl TWR	118.800
Tokyo Haneda Intl TWR	126.200
Tokyo Haneda Intl TWR	126.200
Tokyo Haneda Intl TWR	118.100
Tokyo Haneda Intl TWR	124.350
Tokyo Haneda Intl TWR	126.200
Tokyo Haneda Intl NORTH PACIFIC AREA	126.900
Tokyo Haneda Intl TWR	118.800
Tokyo Haneda Intl TWR	118.800
Tokyo Haneda Intl TWR	124.350
Tokyo Haneda Intl TWR	118.100
Tokyo Haneda Intl NORTH PACIFIC AREA	126.900
Tokyo Haneda Intl TCA	124.750
Tokyo Haneda Intl APP	125.300
Tokyo Haneda Intl APP	119.700

Tokyo Haneda Intl APP	119.100
Tokyo Haneda Intl TCA	124.750
Tokyo Haneda Intl APP	125.300
Tokyo Haneda Intl APP	125.200
Tokyo Haneda Intl APP	119.700
Tokyo Haneda Intl APP	119.100
Tokyo Haneda Intl APP	125.200
Tokyo Haneda Intl TCA	124.750
Tokyo Haneda Intl APP	125.300
Tokyo Haneda Intl TCA	124.750
Tokyo Haneda Intl APP	125.200
Tokyo Haneda Intl APP	119.700
Tokyo Haneda Intl APP	119.100
Tokyo Haneda Intl APP	125.300
Tokyo Haneda Intl APP	119.100
Tokyo Haneda Intl APP	119.700
Tokyo Haneda Intl APP	125.200
Tokyo Haneda Intl DEP	126.000
Tokyo Haneda Intl DEP	126.000
Tokyo Haneda Intl DEP	120.800
Tokyo Haneda Intl DEP	126.000
Tokyo Haneda Intl DEP	120.800
Tokyo Haneda Intl DEP	126.000
Tokyo Haneda Intl DEP	127.600
Tokyo Haneda Intl DEP	120.800
Tokyo Haneda Intl DEP	127.600
Tokyo Haneda Intl DEP	120.800
Tokyo Haneda Intl DEP	127.600
Tokyo Haneda Intl DEP	127.600

Approach frequencies

LDA	22	110.1	18.00mi
LDA	23	108.5	18.00mi
ILS-cat-III	34R	108.9	18.00mi
ILS-cat-I	22	108.1	18.00mi
ILS-cat-I	23	110.5	18.00mi
ILS-cat-I	16R	111.55	18.00mi
ILS-cat-I	16L	111.95	18.00mi
ILS-cat-I	34L	111.7	18.00mi
3° GS	22	108.1	18.00mi
3° GS	23	110.5	18.00mi
3° GS	34L	111.7	18.00mi
3° GS	34R	108.9	18.00mi
3° GS	16L	111.95	18.00mi
3° GS	16R	111.55	18.00mi

Nearby beacons

code	identifier	dist	bearing	frequency
HME	HANEDA (TOKYO) VOR/DME	1.1	294.2°	112.20
KZT	KISARAZU TACAN	11.1	141.7°	110.05
NJA	ATSUGI TACAN	17.2	251.7°	115.10
SHT	SHIMOFUSA (MATSUDO) TACAN	18.6	42.5°	108.20
HYD	DME	20.2	213°	116.20
TN	SHIN-TACHIKAWA NDB	21	293.3°	366
TNT	TACHIKAWA TACAN	21	293.1°	115.80
YOK	YOKOTA (TOKYO) TACAN	24	294.4°	113.80
YLT	IRUMA TACAN	24.7	308°	110.60
SND	(TOKYO) DME	24.9	27.7°	114
SYE	SEKIYADO VOR/DME	27.6	7.2°	117
NRE	NARITA (TOKYO) VOR/DME	31.5	68.5°	117.90
TLD	DME	34.8	42.2°	116
TET	TATEYAMA TACAN	35	174.4°	108.80
OJT	ONJUKU TACAN	36.4	122°	115.70
PQD	DME	36.8	169.3°	112.50
HUC	HYAKURI VORTAC	48.9	44.9°	113.30
OSE	MIHARA (OSHIMA) VOR/DME	50.3	208.5°	109.85
XAC	OSHIMA VORTAC	53.6	203.5°	113.10
JD	NIKKO (UTSUNOMIYA) NDB	56.2	5°	389
JDT	UTSUNOMIYA TACAN	58	5.5°	112.15

Departure and arrival routes

Transition altitude	14000ft
Transition level	14000ft

SID end points	distance	outbound direction
RW04		
SYE3	27.6	7°
ROVE2A	50.7	80°
RUTAS2	66.1	133°
OPPAR3, VAMOS3	36.8	169°
ISOGO2, VADAR1	53.6	204°
LAXAS3	40.9	226°
NINOX3	30.3	265°
RITL2A	32.1	280°
BEKL2A	34.2	295°
RW05		
SYE3	27.6	7°
ROVE2C, ROVE2B, ROVE2A	50.7	80°
RUTAS2	66.1	133°
VAMOS3, OPPAR3	36.8	169°
VADAR1, ISOGO2	53.6	204°
LAXAS3	40.9	226°

NINOX3	30.3	265°
RITL2C, RITL2B, RITL2A	32.1	280°
BEKL2C, BEKL2B, BEKL2A	34.2	295°
RW16 (ALL)		
SYE3	27.6	7°
VADAR1, ISOGO2	53.6	204°
RW16L		
ROVE2C, ROVE2B, ROVE2A	50.7	80°
RUTAS2	66.1	133°
VAMOS3, OPPAR3	36.8	169°
LAXAS3	40.9	226°
NINOX3	30.3	265°
RITL2C, RITL2B, RITL2A	32.1	280°
BEKL2A, BEKL2B, BEKL2C	34.2	295°
RW16R		
ROVE2C, ROVE2B, ROVE2A	50.7	80°
RUTAS2	66.1	133°
VAMOS3, OPPAR3	36.8	169°
LAXAS3	40.9	226°
NINOX3	30.3	265°
RITL2A, RITL2B, RITL2C	32.1	280°
BEKL2A, BEKL2B, BEKL2C	34.2	295°
RW22		
VAMOS3	36.8	169°
LAXAS3	40.9	226°
NINOX3	30.3	265°
RITL2C	32.1	280°
RW34 (ALL)		
SYE3	27.6	7°
ROVE2A	50.7	80°
RUTAS2	66.1	133°
VAMOS3, OPPAR3	36.8	169°
VADAR1	53.6	204°
LAXAS3	40.9	226°
NINOX3	30.3	265°
RITL2A	32.1	280°
BEKL2A	34.2	295°
RW34L		
ISOGO2	53.6	204°
RW34R		
ROVE2B, ROVE2C	50.7	80°
ISOGO2	53.6	204°
RITL2B, RITL2C	32.1	280°
BEKL2B, BEKL2C	34.2	295°

STAR starting points	distance	inbound direction
ALL		
XACN, XACV	53.6	24°

SINGO, DOYLE	49.3	213°
MESSEN, MESSEV	36.4	302°
AROSAN, AROSAV	68.2	313°
ADDUM, BONUS	45.6	325°
AKSELV, AKSELN	52.7	355°
RW16L		
XACL	53.6	24°
GODINL	56.7	210°
POLIXL	50.8	225°
AROSAL	68.2	313°
AKSELL	52.7	355°
RW16R		
XACR	53.6	24°
GODINR	56.7	210°
POLIXR	50.8	225°
AROSAR	68.2	313°
AKSELR	52.7	355°
RW22		
XAC2N, XAC2B, XAC1B, XAC1N	53.6	24°
GODI1D, GODI1S	56.7	210°
POLI1S, POLI1D	50.8	225°
AROS1B, AROS2N, AROS2B, AROS1N	68.2	313°
AKSE2N, AKSE1B, AKSE1N, AKSE2B	52.7	355°
RW23		
XAC2N, XAC2B, XAC1B, XAC1N	53.6	24°
GODI1S, GODI1D	56.7	210°
POLI1S, POLI1D	50.8	225°
AROS1B, AROS2N, AROS2B, AROS1N	68.2	313°
AKSE1B, AKSE1N, AKSE2N, AKSE2B	52.7	355°
RW34 (ALL)		
XAC1K, XAC1A, XAC2C, XAC2H	53.6	24°
GODI2A, GODI1H, GODI1C, GODI2K	56.7	210°
POLI1H, POLI2K, POLI2A, POLI1C	50.8	225°
AROS2C, AROS1A, AROS1K, AROS2H	68.2	313°
AKSE1A, AKSE1K, AKSE2C, AKSE2H	52.7	355°

Holding patterns

STAR name	hold at	type	turn	heading*	altitude	leg	speed limit
ADDUM	ADDUM	VHF	left	157 (337)°	> 5000ft	DME 8.4mi	250
AKSE1A	AKSEL	VHF	right	219 (39)°	5000ft - 14000ft	1.0min timed	230
AKSE1A	ARLON	VHF	left	189 (9)°	4000ft - 14000ft	1.0min timed	230
AKSE1A	WEDGE	VHF	left	120 (300)°	4000ft - 14000ft	1.0min timed	230
AKSE1B	AKSEL	VHF	right	219 (39)°	5000ft - 14000ft	1.0min timed	230

AKSE1B	BACON	VHF	left	183 (3)°	4000ft - 14000ft	1.0min timed	230
AKSE1B	SHAFT	VHF	right	150 (330)°	4000ft - 14000ft	1.0min timed	230
AKSE1K	AKSEL	VHF	right	219 (39)°	5000ft - 14000ft	1.0min timed	230
AKSE1K	KAIHO	VHF	right	173 (353)°	4000ft - 14000ft	1.0min timed	230
AKSE1K	WEDGE	VHF	left	120 (300)°	4000ft - 14000ft	1.0min timed	230
AKSE1N	AKSEL	VHF	right	219 (39)°	5000ft - 14000ft	1.0min timed	230
AKSE1N	NYLON	VHF	left	177 (357)°	4000ft - 14000ft	1.0min timed	230
AKSE1N	SHAFT	VHF	right	150 (330)°	4000ft - 14000ft	1.0min timed	230
AKSE2B	AKSEL	VHF	right	219 (39)°	5000ft - 14000ft	1.0min timed	230
AKSE2B	BACON	VHF	left	183 (3)°	4000ft - 14000ft	1.0min timed	230
AKSE2B	SHAFT	VHF	right	150 (330)°	4000ft - 14000ft	1.0min timed	230
AKSE2B	STING	VHF	right	247 (67)°	4000ft - 14000ft	1.0min timed	230
AKSE2C	AKSEL	VHF	right	219 (39)°	5000ft - 14000ft	1.0min timed	230
AKSE2C	CIVIC	VHF	right	165 (345)°	4000ft - 14000ft	1.0min timed	230
AKSE2C	CREAM	VHF	right	111 (291)°	4000ft - 14000ft	1.0min timed	230
AKSE2H	AKSEL	VHF	right	219 (39)°	5000ft - 14000ft	1.0min timed	230
AKSE2H	CACAO	VHF	right	152 (332)°	4000ft - 60000ft	DME 5.0mi	230
AKSE2H	CIVIC	VHF	right	165 (345)°	4000ft - 14000ft	1.0min timed	230
AKSE2H	CREAM	VHF	right	111 (291)°	4000ft - 14000ft	1.0min timed	230
AKSE2N	AKSEL	VHF	right	219 (39)°	5000ft - 14000ft	1.0min timed	230
AKSE2N	NYLON	VHF	left	177 (357)°	4000ft - 14000ft	1.0min timed	230
AKSE2N	SHAFT	VHF	right	150 (330)°	4000ft - 14000ft	1.0min timed	230
AKSE2N	STING	VHF	right	247 (67)°	4000ft - 14000ft	1.0min timed	230
AKSELL	AKSEL	VHF	right	219 (39)°	5000ft - 14000ft	1.0min timed	230
AKSELL	SHAFT	VHF	right	150 (330)°	4000ft - 14000ft	1.0min timed	230
AKSELL	SNARE	VHF	right	117 (297)°	4000ft - 14000ft	1.0min timed	230

AKSELL	SPINE	VHF	left	168 (348)°	4000ft - 14000ft	1.0min timed	230
AKSELN	AKSEL	VHF	right	219 (39)°	5000ft - 14000ft	1.0min timed	230
AKSELN	KAIHO	VHF	right	173 (353)°	4000ft - 14000ft	1.0min timed	230
AKSELR	AKSEL	VHF	right	219 (39)°	5000ft - 14000ft	1.0min timed	230
AKSELR	NEURO	VHF	right	110 (290)°	4000ft - 14000ft	1.0min timed	230
AKSELR	NUMAN	VHF	left	180 (0)°	4000ft - 14000ft	1.0min timed	230
AKSELV	AKSEL	VHF	right	219 (39)°	5000ft - 14000ft	1.0min timed	230
AKSELV	KAIHO	VHF	right	173 (353)°	4000ft - 14000ft	1.0min timed	230
AROS1A	ARLON	VHF	left	189 (9)°	4000ft - 14000ft	1.0min timed	230
AROS1A	AVEEY	VHF	right	134 (314)°	5000ft - 14000ft	1.0min timed	230
AROS1A	WEDGE	VHF	left	120 (300)°	4000ft - 14000ft	1.0min timed	230
AROS1B	AVEEY	VHF	right	134 (314)°	5000ft - 14000ft	1.0min timed	230
AROS1B	BACON	VHF	left	183 (3)°	4000ft - 14000ft	1.0min timed	230
AROS1B	SHAFT	VHF	right	150 (330)°	4000ft - 14000ft	1.0min timed	230
AROS1K	AVEEY	VHF	right	134 (314)°	5000ft - 14000ft	1.0min timed	230
AROS1K	KAIHO	VHF	right	173 (353)°	4000ft - 14000ft	1.0min timed	230
AROS1K	WEDGE	VHF	left	120 (300)°	4000ft - 14000ft	1.0min timed	230
AROS1N	AVEEY	VHF	right	134 (314)°	5000ft - 14000ft	1.0min timed	230
AROS1N	NYLON	VHF	left	177 (357)°	4000ft - 14000ft	1.0min timed	230
AROS1N	SHAFT	VHF	right	150 (330)°	4000ft - 14000ft	1.0min timed	230
AROS2B	AVEEY	VHF	right	134 (314)°	5000ft - 14000ft	1.0min timed	230
AROS2B	BACON	VHF	left	183 (3)°	4000ft - 14000ft	1.0min timed	230
AROS2B	SHAFT	VHF	right	150 (330)°	4000ft - 14000ft	1.0min timed	230
AROS2B	STING	VHF	right	247 (67)°	4000ft - 14000ft	1.0min timed	230
AROS2C	AVEEY	VHF	right	134 (314)°	5000ft - 14000ft	1.0min timed	230
AROS2C	CIVIC	VHF	right	165 (345)°	4000ft - 14000ft	1.0min timed	230

AROS2C	CREAM	VHF	right	111 (291)°	4000ft - 14000ft	1.0min timed	230
AROS2H	AVEEY	VHF	right	134 (314)°	5000ft - 14000ft	1.0min timed	230
AROS2H	CACAO	VHF	right	152 (332)°	4000ft - 60000ft	DME 5.0mi	230
AROS2H	CIVIC	VHF	right	165 (345)°	4000ft - 14000ft	1.0min timed	230
AROS2H	CREAM	VHF	right	111 (291)°	4000ft - 14000ft	1.0min timed	230
AROS2N	AVEEY	VHF	right	134 (314)°	5000ft - 14000ft	1.0min timed	230
AROS2N	NYLON	VHF	left	177 (357)°	4000ft - 14000ft	1.0min timed	230
AROS2N	SHAFT	VHF	right	150 (330)°	4000ft - 14000ft	1.0min timed	230
AROS2N	STING	VHF	right	247 (67)°	4000ft - 14000ft	1.0min timed	230
AROSAL	AVEEY	VHF	right	134 (314)°	5000ft - 14000ft	1.0min timed	230
AROSAL	SHAFT	VHF	right	150 (330)°	4000ft - 14000ft	1.0min timed	230
AROSAL	SNARE	VHF	right	117 (297)°	4000ft - 14000ft	1.0min timed	230
AROSAL	SPINE	VHF	left	168 (348)°	4000ft - 14000ft	1.0min timed	230
AROSAN	AVEEY	VHF	right	134 (314)°	5000ft - 14000ft	1.0min timed	230
AROSAN	KAIHO	VHF	right	173 (353)°	4000ft - 14000ft	1.0min timed	230
AROSAR	AVEEY	VHF	right	134 (314)°	5000ft - 14000ft	1.0min timed	230
AROSAR	NEURO	VHF	right	110 (290)°	4000ft - 14000ft	1.0min timed	230
AROSAR	NUMAN	VHF	left	180 (0)°	4000ft - 14000ft	1.0min timed	230
AROSAV	AVEEY	VHF	right	134 (314)°	5000ft - 14000ft	1.0min timed	230
AROSAV	KAIHO	VHF	right	173 (353)°	4000ft - 14000ft	1.0min timed	230
BONUS	ADDUM	VHF	left	157 (337)°	> 5000ft	DME 8.4mi	250
DOYLE	STONE	VHF	right	36 (216)°	> 11000ft	DME 7.7mi	250
GODI1C	COACH	VHF	right	5 (185)°	4000ft - 14000ft	1.0min timed	230
GODI1C	COLOR	VHF	right	17 (197)°	8000ft - 14000ft	1.0min timed	230
GODI1C	CREAM	VHF	right	111 (291)°	4000ft - 14000ft	1.0min timed	230
GODI1C	GODIN	VHF	right	17 (197)°	8000ft - 14000ft	1.0min timed	230
GODI1D	DENNY	VHF	right	347 (167)°	4000ft - 14000ft	1.0min timed	230

GODI1D	DREAD	VHF	right	11 (191)°	5000ft - 14000ft	1.0min timed	230
GODI1D	GODIN	VHF	right	17 (197)°	8000ft - 14000ft	1.0min timed	230
GODI1D	NOVEL	VHF	left	84 (264)°	5000ft - 14000ft	1.0min timed	230
GODI1H	CACAO	VHF	right	152 (332)°	4000ft - 60000ft	DME 5.0mi	230
GODI1H	COACH	VHF	right	5 (185)°	4000ft - 14000ft	1.0min timed	230
GODI1H	COLOR	VHF	right	17 (197)°	8000ft - 14000ft	1.0min timed	230
GODI1H	CREAM	VHF	right	111 (291)°	4000ft - 14000ft	1.0min timed	230
GODI1H	GODIN	VHF	right	17 (197)°	8000ft - 14000ft	1.0min timed	230
GODI1S	GODIN	VHF	right	17 (197)°	8000ft - 14000ft	1.0min timed	230
GODI1S	NOVEL	VHF	left	84 (264)°	5000ft - 14000ft	1.0min timed	230
GODI1S	SCREW	VHF	left	23 (203)°	4000ft - 14000ft	1.0min timed	230
GODI2A	ARLON	VHF	left	189 (9)°	4000ft - 14000ft	1.0min timed	230
GODI2A	COACH	VHF	right	5 (185)°	4000ft - 14000ft	1.0min timed	230
GODI2A	COLOR	VHF	right	17 (197)°	8000ft - 14000ft	1.0min timed	230
GODI2A	GODIN	VHF	right	17 (197)°	8000ft - 14000ft	1.0min timed	230
GODI2K	COACH	VHF	right	5 (185)°	4000ft - 14000ft	1.0min timed	230
GODI2K	COLOR	VHF	right	17 (197)°	8000ft - 14000ft	1.0min timed	230
GODI2K	GODIN	VHF	right	17 (197)°	8000ft - 14000ft	1.0min timed	230
GODI2K	KAIHO	VHF	right	173 (353)°	4000ft - 14000ft	1.0min timed	230
GODINL	GODIN	VHF	right	17 (197)°	8000ft - 14000ft	1.0min timed	230
GODINL	NOVEL	VHF	left	84 (264)°	5000ft - 14000ft	1.0min timed	230
GODINL	SNARE	VHF	right	117 (297)°	4000ft - 14000ft	1.0min timed	230
GODINR	GODIN	VHF	right	17 (197)°	8000ft - 14000ft	1.0min timed	230
GODINR	NEURO	VHF	right	110 (290)°	4000ft - 14000ft	1.0min timed	230
GODINR	NOVEL	VHF	left	84 (264)°	5000ft - 14000ft	1.0min timed	230
MESSEN	KAIHO	VHF	right	173 (353)°	4000ft - 14000ft	1.0min timed	230

MESSEN	MESSE	VHF	left	66 (246)°	6000ft - 14000ft	1.0min timed	230
MESSEV	KAIHO	VHF	right	173 (353)°	4000ft - 14000ft	1.0min timed	230
MESSEV	MESSE	VHF	left	66 (246)°	6000ft - 14000ft	1.0min timed	230
POLI1C	COACH	VHF	right	5 (185)°	4000ft - 14000ft	1.0min timed	230
POLI1C	COLOR	VHF	right	17 (197)°	8000ft - 14000ft	1.0min timed	230
POLI1C	CREAM	VHF	right	111 (291)°	4000ft - 14000ft	1.0min timed	230
POLI1C	POLIX	VHF	left	130 (310)°	11000ft - 14000ft	1.0min timed	230
POLI1D	DENNY	VHF	right	347 (167)°	4000ft - 14000ft	1.0min timed	230
POLI1D	DREAD	VHF	right	11 (191)°	5000ft - 14000ft	1.0min timed	230
POLI1D	GODIN	VHF	right	17 (197)°	8000ft - 14000ft	1.0min timed	230
POLI1D	NOVEL	VHF	left	84 (264)°	5000ft - 14000ft	1.0min timed	230
POLI1D	POLIX	VHF	left	130 (310)°	11000ft - 14000ft	1.0min timed	230
POLI1H	CACAO	VHF	right	152 (332)°	4000ft - 60000ft	DME 5.0mi	230
POLI1H	COACH	VHF	right	5 (185)°	4000ft - 14000ft	1.0min timed	230
POLI1H	COLOR	VHF	right	17 (197)°	8000ft - 14000ft	1.0min timed	230
POLI1H	CREAM	VHF	right	111 (291)°	4000ft - 14000ft	1.0min timed	230
POLI1H	POLIX	VHF	left	130 (310)°	11000ft - 14000ft	1.0min timed	230
POLI1S	GODIN	VHF	right	17 (197)°	8000ft - 14000ft	1.0min timed	230
POLI1S	NOVEL	VHF	left	84 (264)°	5000ft - 14000ft	1.0min timed	230
POLI1S	POLIX	VHF	left	130 (310)°	11000ft - 14000ft	1.0min timed	230
POLI1S	SCREW	VHF	left	23 (203)°	4000ft - 14000ft	1.0min timed	230
POLI2A	ARLON	VHF	left	189 (9)°	4000ft - 14000ft	1.0min timed	230
POLI2A	COACH	VHF	right	5 (185)°	4000ft - 14000ft	1.0min timed	230
POLI2A	COLOR	VHF	right	17 (197)°	8000ft - 14000ft	1.0min timed	230
POLI2A	POLIX	VHF	left	130 (310)°	11000ft - 14000ft	1.0min timed	230
POLI2K	COACH	VHF	right	5 (185)°	4000ft - 14000ft	1.0min timed	230

POLI2K	COLOR	VHF	right	17 (197)°	8000ft - 14000ft	1.0min timed	230
POLI2K	KAIHO	VHF	right	173 (353)°	4000ft - 14000ft	1.0min timed	230
POLI2K	POLIX	VHF	left	130 (310)°	11000ft - 14000ft	1.0min timed	230
POLIXL	GODIN	VHF	right	17 (197)°	8000ft - 14000ft	1.0min timed	230
POLIXL	NOVEL	VHF	left	84 (264)°	5000ft - 14000ft	1.0min timed	230
POLIXL	POLIX	VHF	left	130 (310)°	11000ft - 14000ft	1.0min timed	230
POLIXL	SNARE	VHF	right	117 (297)°	4000ft - 14000ft	1.0min timed	230
POLIXR	GODIN	VHF	right	17 (197)°	8000ft - 14000ft	1.0min timed	230
POLIXR	NEURO	VHF	right	110 (290)°	4000ft - 14000ft	1.0min timed	230
POLIXR	NOVEL	VHF	left	84 (264)°	5000ft - 14000ft	1.0min timed	230
POLIXR	POLIX	VHF	left	130 (310)°	11000ft - 14000ft	1.0min timed	230
SINGO	STONE	VHF	right	36 (216)°	> 11000ft	DME 7.7mi	250
XAC1A	ANZAC	VHF	left	248 (68)°	5000ft - 14000ft	1.0min timed	230
XAC1A	ARLON	VHF	left	189 (9)°	4000ft - 14000ft	1.0min timed	230
XAC1A	WEDGE	VHF	left	120 (300)°	4000ft - 14000ft	1.0min timed	230
XAC1A	XAC	NDB	right	275 (95)°	15000ft - 60000ft	1.5min timed	240
XAC1B	ANZAC	VHF	left	248 (68)°	5000ft - 14000ft	1.0min timed	230
XAC1B	BACON	VHF	left	183 (3)°	4000ft - 14000ft	1.0min timed	230
XAC1B	SHAFT	VHF	right	150 (330)°	4000ft - 14000ft	1.0min timed	230
XAC1B	XAC	NDB	right	275 (95)°	15000ft - 60000ft	1.5min timed	240
XAC1K	ANZAC	VHF	left	248 (68)°	5000ft - 14000ft	1.0min timed	230
XAC1K	KAIHO	VHF	right	173 (353)°	4000ft - 14000ft	1.0min timed	230
XAC1K	WEDGE	VHF	left	120 (300)°	4000ft - 14000ft	1.0min timed	230
XAC1K	XAC	NDB	right	275 (95)°	15000ft - 60000ft	1.5min timed	240
XAC1N	ANZAC	VHF	left	248 (68)°	5000ft - 14000ft	1.0min timed	230
XAC1N	NYLON	VHF	left	177 (357)°	4000ft - 14000ft	1.0min timed	230

XAC1N	SHAFT	VHF	right	150 (330)°	4000ft - 14000ft	1.0min timed	230
XAC1N	XAC	NDB	right	275 (95)°	15000ft - 60000ft	1.5min timed	240
XAC2B	AKSEL	VHF	right	219 (39)°	5000ft - 14000ft	1.0min timed	230
XAC2B	BACON	VHF	left	183 (3)°	4000ft - 14000ft	1.0min timed	230
XAC2B	SHAFT	VHF	right	150 (330)°	4000ft - 14000ft	1.0min timed	230
XAC2B	STING	VHF	right	247 (67)°	4000ft - 14000ft	1.0min timed	230
XAC2B	XAC	NDB	right	275 (95)°	15000ft - 60000ft	1.5min timed	240
XAC2C	CIVIC	VHF	right	165 (345)°	4000ft - 14000ft	1.0min timed	230
XAC2C	CREAM	VHF	right	111 (291)°	4000ft - 14000ft	1.0min timed	230
XAC2C	XAC	NDB	right	275 (95)°	15000ft - 60000ft	1.5min timed	240
XAC2H	CACAO	VHF	right	152 (332)°	4000ft - 60000ft	DME 5.0mi	230
XAC2H	CIVIC	VHF	right	165 (345)°	4000ft - 14000ft	1.0min timed	230
XAC2H	CREAM	VHF	right	111 (291)°	4000ft - 14000ft	1.0min timed	230
XAC2H	XAC	NDB	right	275 (95)°	15000ft - 60000ft	1.5min timed	240
XAC2N	AKSEL	VHF	right	219 (39)°	5000ft - 14000ft	1.0min timed	230
XAC2N	NYLON	VHF	left	177 (357)°	4000ft - 14000ft	1.0min timed	230
XAC2N	SHAFT	VHF	right	150 (330)°	4000ft - 14000ft	1.0min timed	230
XAC2N	STING	VHF	right	247 (67)°	4000ft - 14000ft	1.0min timed	230
XAC2N	XAC	NDB	right	275 (95)°	15000ft - 60000ft	1.5min timed	240
XACL	ANZAC	VHF	left	248 (68)°	5000ft - 14000ft	1.0min timed	230
XACL	SHAFT	VHF	right	150 (330)°	4000ft - 14000ft	1.0min timed	230
XACL	SNARE	VHF	right	117 (297)°	4000ft - 14000ft	1.0min timed	230
XACL	SPINE	VHF	left	168 (348)°	4000ft - 14000ft	1.0min timed	230
XACL	XAC	NDB	right	275 (95)°	15000ft - 60000ft	1.5min timed	240
XACN	KAIHO	VHF	right	173 (353)°	4000ft - 14000ft	1.0min timed	230
XACN	XAC	NDB	right	275 (95)°	15000ft - 60000ft	1.5min timed	240

XACR	ANZAC	VHF	left	248 (68)°	5000ft - 14000ft	1.0min timed	230
XACR	NEURO	VHF	right	110 (290)°	4000ft - 14000ft	1.0min timed	230
XACR	NUMAN	VHF	left	180 (0)°	4000ft - 14000ft	1.0min timed	230
XACR	XAC	NDB	right	275 (95)°	15000ft - 60000ft	1.5min timed	240
XACV	KAIHO	VHF	right	173 (353)°	4000ft - 14000ft	1.0min timed	230
XACV	XAC	NDB	right	275 (95)°	15000ft - 60000ft	1.5min timed	240

*) magnetic outbound (inbound) holding course

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