

WAMM - Manado-celebes Island - Manado Sam Ratulangi

Airport details

State	North Sulawesi
Country	Indonesia
Region	WA
Elevation	264ft (80m)
Timezone	GMT +8
Coordinates	1.54182, 124.92793
Type	land
ICAO code	WAMM
IATA code	MDC
FAA code	n/a

Runway info

Runway 18 / 36	
length	2664m (8740ft)
bearing	182° / 2°
width	45m (148ft)
surface	asphalt
blast zone	59m (194ft) / 58m (190ft)

Communication

Manado Sam Ratulangi ATIS	126.400
Manado Sam Ratulangi ATIS	126.400
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Manado Sam Ratulangi RATULANGI TWR	118.100
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Manado Sam Ratulangi MANADO APP	119.000
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Approach frequencies

ILS-cat-I	18	111.1	18.00mi
ILS-cat-I	36	110.5	18.00mi
3.3° GS	36	110.5	18.00mi
3.2° GS	18	111.1	18.00mi

Nearby beacons

code	identifier	dist	bearing	frequency
MNO	MANADO VOR/DME	0.7	359.8°	114.20
PN	MANADO NDB	3.1	200.9°	290
MD	MANADO NDB	6.4	235.6°	255
MWB	MANADO VOR/DME	13.2	172.9°	114.80

Departure and arrival routes

Transition altitude	11000ft
Transition level	13000ft

SID end points	distance	outbound direction
RW18		
HALM1E, HALM1C	104.7	108°
SOSO1C, SOSO1A	106.4	116°
RUMB1C, RUMB1A	112.2	149°
LUAN1C, LUAN1A	109.5	216°
GONT1H, GONT1C, GONT1A	103.2	245°
GOTS1H, GOTS1C, GOTS1A	102.2	249°
BOND1C	30.3	355°
CATU1A	37.0	358°
RW36		
HALM1F, HALM1D	104.7	108°
SOSO1B, SOSO1D	106.4	116°
RUMB1D, RUMB1B	112.2	149°
LUAN1D, LUAN1B	109.5	216°
GONT1D, GONT1B	103.2	245°
GOTS1D, GOTS1B	102.2	249°
BOND1D	30.3	355°
CATU1B	37.0	358°

STAR starting points	distance	inbound direction
ALL		
LUAN1E	109.5	36°
GONT1E	103.2	65°
GOTS1E	102.2	69°
BOND1E	30.3	175°
HALM1G	104.7	288°

RW18	SOSO1E	106.4	296°
	RUMB1E	112.2	329°
RW36	LUAN1F	109.5	36°
	GONT1F	103.2	65°
	GOTS1F	102.2	69°
	BOND2A	30.3	175°
	HALM1H	104.7	288°
	SOSO1F	106.4	296°
	RUMB1F	112.2	329°
	LUAN1G	109.5	36°
	GONT1G	103.2	65°
	GOTS1G	102.2	69°
	BOND1B	30.3	175°
	HALM1J	104.7	288°
	SOSO1G	106.4	296°
	RUMB1G	112.2	329°

Holding patterns

STAR name	hold at	type	turn	heading*	altitude	leg	speed limit
BOND1B	NINUV	VHF	right	2 (182)°	> 5000ft	1.0min timed	ICAO rules
BOND2A	MOXUR	VHF	right	9 (189)°	> 5000ft	1.0min timed	ICAO rules
GONT1F	VIDUG	VHF	left	199 (19)°	> 6500ft	1.0min timed	ICAO rules
GONT1G	TEBEB	VHF	right	234 (54)°	> 6000ft	1.0min timed	ICAO rules
GOTS1F	VIDUG	VHF	left	199 (19)°	> 6500ft	1.0min timed	ICAO rules
GOTS1G	TEBEB	VHF	right	234 (54)°	> 6000ft	1.0min timed	ICAO rules
HALM1H	NONUB	VHF	left	156 (336)°	> 8000ft	1.0min timed	ICAO rules
HALM1J	SAMAH	VHF	right	130 (310)°	> 7000ft	1.0min timed	ICAO rules
LUAN1F	VIDUG	VHF	left	199 (19)°	> 6500ft	1.0min timed	ICAO rules
LUAN1G	TEBEB	VHF	right	234 (54)°	> 6000ft	1.0min timed	ICAO rules
RUMB1F	NONUB	VHF	left	156 (336)°	> 8000ft	1.0min timed	ICAO rules
RUMB1G	SAMAH	VHF	right	130 (310)°	> 7000ft	1.0min timed	ICAO rules
SOSO1F	NONUB	VHF	left	156 (336)°	> 8000ft	1.0min timed	ICAO rules
SOSO1G	SAMAH	VHF	right	130 (310)°	> 7000ft	1.0min timed	ICAO rules

*) magnetic outbound (inbound) holding course

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