



AERONAUTICAL SERVICES

NZANR – Part 71 – Military Operating Areas (MOA)

NOTES: (1) Upper/Lower Limit is expressed in FT (AMSL) or FL (Flight Level) (2) If no Upper Limit shown, Upper Limit is advised by NOTAM

Identifier	Name	Upper limit		Lower Limit		Remarks	Working Hours
NZM102	BAY OF ISLANDS			0	FT	[Upper Limit:] Advised by NOTAM. [Organisation or Authority:] NZ Defence Force; Headquarters Joint Force NZ, J33M, 2 Seddul Bahr Road, Trentham, Upper Hutt 6430, TEL (04) 529 6313, AH (04) 529 6333	NOTAM
NZM103	SOUTH HEAD			0	FT	[Upper Limit:] Advised by NOTAM. [Organisation or Authority:] RNZAF; RNZAF Base Auckland, TEL (09) 417 7442	NOTAM
NZM106	KAIPARA			0	FT	[Upper Limit:] Advised by NOTAM. [Organisation or Authority:] RNZAF; RNZAF Base Auckland, TEL (09) 417 7442	NOTAM
NZM107	WHENUAPAI	2500	FT	0	FT	[Organisation or Authority:] RNZAF; RNZAF Base Auckland, TEL (09) 417 7442	H24
NZM201	ARDMORE	2300	FT	0	FT	[Organisation or Authority:] NZ Army; Papakura Camp, Auckland, TEL (09) 296 6800	H24
NZM204	CUVIER ISLAND			0	FT	[Upper Limit:] Advised by NOTAM. [Organisation or Authority:] NZ Defence Force; Headquarters Joint Force NZ, J33M, 2 Seddul Bahr Road, Trentham, Upper Hutt 6430, TEL (04) 529 6313, AH (04) 529 6333	NOTAM
NZM205	BAY OF PLENTY A			0	FT	[Upper Limit:] Advised by NOTAM. [Organisation or Authority:] NZ Defence Force; Headquarters Joint Force NZ, J33M, 2 Seddul Bahr Road, Trentham, Upper Hutt 6430, TEL (04) 529 6313, AH (04) 529 6333	NOTAM
NZM206	BAY OF PLENTY B			0	FT	[Upper Limit:] Advised by NOTAM. [Organisation or Authority:] NZ Defence Force; Headquarters Joint Force NZ, J33M, 2 Seddul Bahr Road, Trentham, Upper Hutt 6430, TEL (04) 529 6313, AH (04) 529 6333	NOTAM
NZM207	BAY OF PLENTY C			0	FT	[Upper Limit:] Advised by NOTAM. [Organisation or Authority:] NZ	NOTAM



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Identifier	Name	Upper limit	Lower Limit	Remarks	Working Hours
				Defence Force; Headquarters Joint Force NZ, J33M, 2 Seddul Bahr Road, Trentham, Upper Hutt 6430, TEL (04) 529 6313, AH (04) 529 6333	
NZM208	BAY OF PLENTY D		0 FT	[Upper Limit:] Advised by NOTAM. [Organisation or Authority:] NZ Defence Force; Headquarters Joint Force NZ, J33M, 2 Seddul Bahr Road, Trentham, Upper Hutt 6430, TEL (04) 529 6313, AH (04) 529 6333	NOTAM
NZM300	RANGIPO DESERT	13000 FT	0 FT	[Organisation or Authority:] NZ Army; Operations Staff, HQ ATG, Waiouru Army Camp, Range Control, TEL (06) 387 5530, AH (027) 251 4529	H24
NZM301	MOAWHANGO	13000 FT	0 FT	[Organisation or Authority:] NZ Army; Operations Staff, HQ ATG, Waiouru Army Camp, Range Control, TEL (06) 387 5530, AH (027) 251 4529	H24
NZM302	TARANAKI BIGHT	9000 FT	0 FT	[Organisation or Authority:] RNZAF; Base Ohakea, TEL 0800 RUNWAY (0800 786 929) or TEL (03) 358 1694, or Ohakea ATC 125.1 MHz	HJ
NZM303	DESERT		13000 FT	[Upper Limit:] Advised by NOTAM. [Organisation or Authority:] NZ Army; Operations Staff, HQ ATG, Waiouru Army Camp, Range Control, TEL (06) 387 5530, AH (027) 251 4529	NOTAM
NZM304	WAIOURU EAST		13000 FT	[Upper Limit:] Advised by NOTAM. [Organisation or Authority:] NZ Army; Operations Staff, HQ ATG, Waiouru Army Camp, Range Control, TEL (06) 387 5530, AH (027) 251 4529	NOTAM
NZM305	KARIOI FOREST	4500 FT	0 FT	[Organisation or Authority:] RNZAF; Base Ohakea, TEL 0800 RUNWAY (0800 786 929)	NOTAM
NZM306	RAUMAI	7000 FT	0 FT	[Organisation or Authority:] RNZAF; Base Ohakea, TEL 0800 RUNWAY (0800 786 929) or TEL (03) 358 1694, or Ohakea CTL 125.1 MHz. Outside Ohakea CTL hours contact RNZAF; Base Ohakea, Operations, 135.1 MHz or TEL 0800 RUNWAY (0800 786 929)	H24
NZM309	OHAKEA	1500 FT	0 FT	[Organisation or Authority:] RNZAF; Base Ohakea, TEL 0800 RUNWAY (0800 786 929) or Ohakea CTL 125.1 MHz. Outside Ohakea CTL hours contact RNZAF; Base Ohakea, Operations, 135.1 MHz or	H24



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Identifier	Name	Upper limit		Lower Limit		Remarks	Working Hours
						TEL 0800 RUNWAY (0800 786 929)	
NZM310	LINTON CAMP	1200	FT	0	FT	[Activity or Purpose:] Explosives, Army training and UAS activity. [Organisation or Authority:] NZ Army; Operations Branch, HQ 2 LFG, Linton, Palmerston North 5450, TEL (06) 351 9071	H24
NZM311	BULLS	2500	FT	1500	FT	[Organisation or Authority:] RNZAF; Base Ohakea, TEL 0800 RUNWAY (0800 786 929) or TEL (03) 358 1694, or Ohakea CTL 125.1 MHz. Outside Ohakea CTL hours contact RNZAF; Base Ohakea, Operations, 135.1 MHz or TEL 0800 RUNWAY (0800 786 929)	H24
NZM312	MANAWATU COAST	7000	FT	1500	FT	[Organisation or Authority:] RNZAF; Base Ohakea, TEL 0800 RUNWAY (0800 786 929) or TEL (03) 358 1694, or Ohakea CTL 125.1 MHz. Outside Ohakea CTL hours contact RNZAF; Base Ohakea, Operations, 135.1 MHz or TEL 0800 RUNWAY (0800 786 929)	H24
NZM504	WAIRARAPA COAST	660	FL	0	FT	[Organisation or Authority:] RNZAF; Base Ohakea, TEL 0800 RUNWAY (0800 786 929)	NOTAM
NZM507	EAST COAST	660	FL	9500	FT	[Organisation or Authority:] RNZAF Base Ohakea, TEL 0800 RUNWAY (0800 786 929) or TEL (03) 358 1694, or contact Ohakea ATC 126.2 MHz	OTHER
NZM800	GLENTUNNEL	3500	FT	0	FT	[Activity or Purpose:] Storage and demolition of munitions. [Organisation or Authority:] NZ Army; Operations Branch, HQ 3 LFG, Burnham Military Camp, Burnham, TEL (03) 363 0008	H24
NZM901	BURNHAM CAMP	1300	FT	0	FT	[Activity or Purpose:] Army firing incl RPAS. [Organisation or Authority:] NZ Army; Ops Branch, HQ 3 LFG, Burnham Military Camp, Burnham, TEL (03) 363 0006.	H24

*** SEE AIRSPACE BOUNDARY DESCRIPTIONS BELOW ***



AERONAUTICAL SERVICES

NZANR – Part 71 – MOA boundaries

Boundary Line Types **CIR** (Circle), **CWA** (Clockwise Arc), **CCA** (Counterclockwise Arc), **GRC** (Great Circle), **RHL** (Rhumbline), **FNT** (geoborder i.e. a line following the road , etc)

Identifier	Sequence	Remarks	Latitude	Longitude	Type	Arc latitude	Arc longitude	Arc radius	
NZM102	1		343000.0S	1745000.0E	GRC				
NZM102	2		350000.0S	1745000.0E	GRC				
NZM102	3		350000.0S	1741500.0E	GRC				
NZM102	4		343000.0S	1741500.0E	GRC				
NZM103	1				CIR	362839.1S	1740938.4E	3	NM
NZM106	1	Tapora	362102.8S	1741807.8E	GRC				
NZM106	2		363237.4S	1742050.2E	CCA	364712.46S	1743752.41E	20	NM
NZM106	3		363653.0S	1741633.8E	GRC				
NZM106	4		363800.0S	1740900.0E	GRC				
NZM106	5		363300.0S	1735800.0E	GRC				
NZM106	6		362005.9S	1740100.4E	GRC				
NZM106	7		361838.9S	1740946.2E	GRC				
NZM107	1				CIR	364712.5S	1743752.4E	3	NM
NZM201	1	Following Ardmore Quarry Road from	370251.4S	1750056.5E	FNT				
NZM201	2		370324.0S	1750055.2E	GRC				
NZM201	3		370331.0S	1750031.9E	GRC				
NZM201	4	Following Ardmore Quarry Road from	370347.9S	1750046.9E	FNT				
NZM201	5	(Intersection of Hays Creek and Hunua	370439.3S	1750040.8E	FNT				



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NZANR – Part 71 – MOA boundaries

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Identifier	Sequence	Remarks	Latitude	Longitude	Type	Arc latitude	Arc longitude	Arc radius
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		Roads), Following Hunua Road from						
NZM201	6		370436.7S	1745952.8E	GRC			
NZM201	7		370435.3S	1745936.4E	GRC			
NZM201	8		370316.7S	1745918.5E	GRC			
NZM201	9	Petersens Road	370253.2S	1745936.8E	GRC			
NZM201	10		370241.3S	1750014.2E	GRC			
NZM204	1		355000.0S	1762500.0E	GRC			
NZM204	2		362000.0S	1762500.0E	GRC			
NZM204	3		362000.0S	1755000.0E	GRC			
NZM204	4		355000.0S	1755000.0E	GRC			
NZM205	1		352000.0S	1771730.0E	GRC			
NZM205	2		362000.0S	1771730.0E	GRC			
NZM205	3		362000.00S	1762500.0E	GRC			
NZM205	4		355000.0S	1762500.0E	GRC			
NZM205	5		355000.0S	1755000.0E	GRC			
NZM205	6		352000.0S	1762500.0E	GRC			
NZM206	1		352000.0S	1781000.0E	GRC			
NZM206	2		362000.0S	1781000.0E	GRC			
NZM206	3		362000.0S	1771730.0E	GRC			
NZM206	4		352000.0S	1771730.0E	GRC			
NZM207	1		362000.0S	1771730.0E	GRC			
NZM207	2		372000.0S	1771730.0E	GRC			
NZM207	3		372020.0S	1762500.0E	GRC			
NZM207	4		362000.0S	1762500.0E	GRC			
NZM208	1		362000.0S	1781000.0E	GRC			



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Boundary line types CIR (Circle), CWA (Clockwise Arc), CCA (Counterclockwise Arc), GRC (Great Circle), RHL (Rhumbline), FNT (geoborder i.e. a line following the road , etc)									
Identifier	Sequence	Remarks	Latitude	Longitude	Type	Arc latitude	Arc longitude	Arc radius	

NZM208	2		372000.0S	1781000.0E	GRC				
NZM208	3		372000.0S	1771730.0E	GRC				
NZM208	4		362000.0S	1771730.0E	GRC				
NZM300	1	HT line	391743.7S	1754353.7E	GRC				
NZM300	2		391838.7S	1754305.7E	GRC				
NZM300	3		392313.7S	1754140.7E	GRC				
NZM300	4		392313.7S	1754115.7E	GRC				
NZM300	5		392153.7S	1754050.7E	GRC				
NZM300	6		392153.7S	1753955.7E	GRC				
NZM300	7		391953.7S	1753840.7E	GRC				
NZM300	8		391858.7S	1753715.7E	GRC				
NZM300	9		391733.7S	1753850.7E	GRC				
NZM300	10		391748.7S	1754015.7E	GRC				
NZM300	11		391719.7S	1754216.7E	GRC				
NZM301	1	following the Otamateanui Stream from	391532.7S	1755619.7E	FNT				
NZM301	2	following the Rangitikei River from	391610.7S	1755852.7E	FNT				
NZM301	3		391710.7S	1760015.7E	GRC				
NZM301	4		391710.7S	1755830.7E	GRC				
NZM301	5		392113.7S	1755830.7E	GRC				
NZM301	6	following the Rangitikei River from	392115.7S	1760155.7E	FNT				
NZM301	7		392448.7S	1760029.7E	GRC				
NZM301	8		393003.7S	1755403.7E	GRC				
NZM301	9		393113.7S	1755200.7E	GRC				
NZM301	10	Mt Huriwaka, 3435 ft	393016.7S	1755000.7E	GRC				
NZM301	11	Hill 13221, 3165 ft	393117.7S	1754204.7E	GRC				



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Identifier	Sequence	Remarks	Latitude	Longitude	Type	Arc latitude	Arc longitude	Arc radius	

NZM301	12	SE Waiouru Camp	392833.7S	1754105.7E	GRC				
NZM301	13		392803.7S	1754115.7E	GRC				
NZM301	14		392753.7S	1754110.7E	GRC				
NZM301	15		392503.7S	1754155.7E	GRC				
NZM301	16		392328.7S	1754315.7E	GRC				
NZM301	17		392253.7S	1754320.7E	GRC				
NZM301	18		391913.7S	1754430.7E	GRC				
NZM301	19	Mangaio Stream Shelter	391833.7S	1754512.7E	GRC				
NZM301	20	Hill GG, 3779 ft	391715.7S	1754506.7E	GRC				
NZM301	21	Mt. Ngawhareangarua, 4700 ft	391736.7S	1755147.7E	GRC				
NZM301	22	Hill H, 4660 ft	391651.7S	1755535.7E	GRC				
NZM302	1		400547.7S	1750146.2E	CCA	401234.5799S	1752331.0495E	18	NM
NZM302	2		401934.8S	1750151.2E	GRC				
NZM302	3		403539.6S	1741100.9E	CWA	401234.5799S	1752331.0495E	60	NM
NZM302	4		394942.4S	1741118.3E	GRC				
NZM303	1	HT line	391743.7S	1754353.7E	GRC				
NZM303	2		391838.7S	1754305.7E	GRC				
NZM303	3		392313.7S	1754140.7E	GRC				
NZM303	4		392313.7S	1754115.7E	GRC				
NZM303	5		392153.7S	1754050.7E	GRC				
NZM303	6		392153.7S	1753955.7E	GRC				
NZM303	7		391953.7S	1753840.7E	GRC				
NZM303	8		391858.7S	1753715.7E	GRC				
NZM303	9		391733.7S	1753850.7E	GRC				
NZM303	10		391748.7S	1754015.7E	GRC				



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Identifier	Sequence	Remarks	Latitude	Longitude	Type	Arc latitude	Arc longitude	Arc radius
NZM303	11		391719.7S	1754216.7E	GRC			
NZM304	1	following the Otamateanui Stream from	391532.7S	1755619.7E	FNT			
NZM304	2	following the Rangitikei River from	391610.7S	1755852.7E	FNT			
NZM304	3		391710.7S	1760015.7E	GRC			
NZM304	4		391710.7S	1755830.7E	GRC			
NZM304	5		392113.7S	1755830.7E	GRC			
NZM304	6	following the Rangitikei River from	392115.7S	1760155.7E	FNT			
NZM304	7		392448.7S	1760029.7E	GRC			
NZM304	8		393003.7S	1755403.7E	GRC			
NZM304	9		393113.7S	1755200.7E	GRC			
NZM304	10	Mt Huriwaka, 3435 ft	393016.7S	1755000.7E	GRC			
NZM304	11	Hill 13221, 3165 ft	393117.7S	1754204.7E	GRC			
NZM304	12	SE Waiouru Camp	392833.7S	1754105.7E	GRC			
NZM304	13		392803.7S	1754115.7E	GRC			
NZM304	14		392753.7S	1754110.7E	GRC			
NZM304	15		392503.7S	1754155.7E	GRC			
NZM304	16		392328.7S	1754315.7E	GRC			
NZM304	17		392253.7S	1754320.7E	GRC			
NZM304	18		391913.7S	1754430.7E	GRC			
NZM304	19	Mangaio Stream Shelter	391833.7S	1754512.7E	GRC			
NZM304	20	Hill GG, 3779 ft	391715.7S	1754506.7E	GRC			
NZM304	21	Mt. Ngawhareangaru, 4700 ft	391736.7S	1755147.7E	GRC			
NZM304	22	Hill H, 4660 ft	391651.7S	1755535.7E	GRC			
NZM305	1		391858.7S	1753715.7E	GRC			
NZM305	2		391953.7S	1753840.7E	GRC			



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Identifier	Sequence	Remarks	Latitude	Longitude	Type	Arc latitude	Arc longitude	Arc radius	

NZM305	3		392153.7S	1753955.7E	GRC				
NZM305	4		392153.7S	1754050.7E	GRC				
NZM305	5		392313.7S	1754115.7E	GRC				
NZM305	6	following the Whangaehu River from	392348.7S	1754116.6E	FNT				
NZM305	7		392614.2S	1753859.1E	GRC				
NZM305	8		392709.0S	1753951.6E	GRC				
NZM305	9	HT line crossing. following SH49 from	392756.5S	1753932.2E	FNT				
NZM305	10	Railway crossing, SH49, following the Main North Island railway from	392802.5S	1753522.3E	FNT				
NZM305	11	Karioi Station Road railway crossing	392653.8S	1753054.7E	GRC				
NZM306	1				CIR	401216.0S	1751329.4E	4	NM
NZM309	1	Sandon Road	401301.9S	1753230.5E	GRC				
NZM309	2	Stewart Road and Awahuri Feilding Road intersection	401508.5S	1753158.8E	GRC				
NZM309	3	Taipo Road and Cole Road intersection	401651.7S	1752752.6E	GRC				
NZM309	4	Milner Road and Kellow Road intersection	401931.0S	1752242.0E	GRC				
NZM309	5		402327.2S	1752128.2E	GRC				
NZM309	6	Himatangi	402328.3S	1751854.3E	GRC				
NZM309	7	Himatangi Beach, a line following the mean high watermark from	402223.8S	1751340.6E	FNT				
NZM309	8		400355.1S	1750732.4E	CWA	401234.5799S	1752331.0495E	15	NM
NZM309	9		400158.6S	1750939.3E	GRC				
NZM309	10	Ratana	400222.3S	1751032.7E	GRC				
NZM309	11	Turakina - a line following the railway tracks from	400249.0S	1751251.5E	FNT				
NZM309	12	Bonny Glen	400329.0S	1751840.2E	GRC				



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Identifier	Sequence	Remarks	Latitude	Longitude	Type	Arc latitude	Arc longitude	Arc radius	

NZM309	13		400505.4S	1752229.6E	GRC				
NZM309	14	Marton Railway Station	400515.3S	1752329.5E	GRC				
NZM309	15	Te Rakehou Road and Halcombe Road intersection	401045.8S	1753029.5E	GRC				
NZM310	1		402331.8S	1753522.7E	GRC				
NZM310	2		402340.2S	1753536.0E	GRC				
NZM310	3		402408.0S	1753527.1E	GRC				
NZM310	4		402435.8S	1753548.6E	GRC				
NZM310	5	A line following Camp Road from	402455.8S	1753519.6E	GRC				
NZM310	6		402345.8S	1753351.1E	GRC				
NZM310	7		402334.4S	1753411.2E	GRC				
NZM311	1				CIR	401234.6S	1752331.1E	4	NM
NZM312	1		400131.2S	1752200.3E	GRC				
NZM312	2		400505.4S	1752229.6E	GRC				
NZM312	3		400835.7S	1752258.3E	CCA	401234.5799S	1752331.0495E	4	NM
NZM312	4		401527.3S	1751953.3E	GRC				
NZM312	5		402321.6S	1750952.8E	CWA	401234.5799S	1752331.0495E	15	NM
NZM312	6	following the HT lines from	395836.4S	1751621.8E	FNT				
NZM504	1		402546.9S	1780211.0E	GRC				
NZM504	2		410203.9S	1771850.1E	GRC				
NZM504	3		404244.5S	1765027.5E	GRC				
NZM504	4		400617.7S	1773351.5E	GRC				
NZM507	1		395736.6S	1772545.1E	CWA	401234.5799S	1752331.0495E	95	NM
NZM507	2		412634.8S	1764212.2E	GRC				
NZM507	3		411732.7S	1755210.4E	GRC				
NZM507	4		411258.7S	1752740.9E	GRC				



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Identifier	Sequence	Remarks	Latitude	Longitude	Type	Arc latitude	Arc longitude	Arc radius	
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NZM507	5		405823.8S	1753800.6E	GRC				
NZM507	6		404141.8S	1755118.6E	GRC				
NZM507	7		403731.6S	1755540.7E	CCA	401234.5799S	1752331.0495E	35	NM
NZM507	8		401627.2S	1760856.6E	GRC				
NZM507	9		400545.3S	1762131.7E	GRC				
NZM800	1				CIR	432940.2S	1715212.4E	0.81	NM
NZM901	1		433551.00S	1722018.40E	GRC				
NZM901	2		433618.00S	1722032.40E	GRC				
NZM901	3		433717.00S	1721748.40E	GRC				
NZM901	4		433654.00S	1721733.40E	GRC				
NZM901	5		433648.00S	1721747.40E	GRC				
NZM901	6		433627.00S	1721732.40E	GRC				

***** END OF AIRSPACE BOUNDARY DESCRIPTIONS *****