

GIS Feature Classes For MMTB - Nga Aho Rangahau SFF Project

Layer ID *Layer*

- 1 New Zealand coastline
- 2 Boundary of the Maniapoto rohe
- 3 Roads layer from topographic maps
- 4 Digital elevation model (15m resolution)
- 5 Hillshade (15m resolution)
- 6 Landform elements - small parts of all landforms e.g. ridges, footslopes
- 7 Landform curvature - planform
- 8 Landform curvature - profile
- 9 Landform curvature - total curvature
- 10 Specific catchment area
- 11 Stream power index
- 12 Sediment transport index
- 13 Mean annual temperature
- 14 Topographic wetness index (15m resolution)
- 15 River Environments Classification
- 16 Rivers layer from topographic maps
- 17 Slope (15m resolution)
- 18 Aspect - which directions slopes are facing
- 19 Exposure to wind due to landscape position
- 20 Growing degree days - number of days the average air temperature > 5°C
- 21 Long term annual average rainfall
- 22 Fundamental Soils Layer
- 23 Map of land resource inventory and land use capability
- 24 Soilsclapes - groupings of similar rocks and slopes where different soils are likely to be found
- 25 Landcover database
- 26 Highly erodible land

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Layer ID	File name	Owner	Provider	Contact
1	Coast	LINZ	Landcare Research	Stephen Campbell
2	Maniapoto_bnd	MMTB	MMTB	Janise Eketone
3	road	LINZ	LINZ	LINZ online data service
4	dem15x	Landcare Research	Landcare Research	Stephen Campbell
5	hillshade15	Landcare Research	Landcare Research	David Palmer
6	lformel25	Landcare Research	Landcare Research	James Barringer
7	planc	Landcare Research	Landcare Research	David Palmer
8	profc	Landcare Research	Landcare Research	David Palmer
9	totc	Landcare Research	Landcare Research	David Palmer
10	spca	Landcare Research	Landcare Research	David Palmer
11	spi	Landcare Research	Landcare Research	David Palmer
12	sti	Landcare Research	Landcare Research	David Palmer
13	tavg_13	Landcare Research	Landcare Research	Daniel Rutledge
14	twi	Landcare Research	Landcare Research	David Palmer
15	REC	NIWA	NIWA	Christian Zammit
16	river	LINZ	LINZ	LINZ online data service
17	slopd	Landcare Research	Landcare Research	David Palmer
18	asp	Landcare Research	Landcare Research	David Palmer
19	Topex	Scion	Landcare Research	Barbara Hock
20	gdd5	Landcare Research	Landcare Research	David Palmer
21	rain_13	Landcare Research	Landcare Research	David Palmer
22	ni_fsl_nztmx	Landcare Research	Landcare Research	Peter Newsome
23	ni_lri_nztmx	Landcare Research	Landcare Research	Peter Newsome
24	Soilscapes	Landcare Research	Landcare Research	Allan Hewitt
25	lcdb3	Landcare Research	Landcare Research	David Pairman
26	hel	Landcare Research	Landcare Research	John Dymond

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Layer ID *Derived from*

- 1 NZ Transverse Mercator 1:50000 topographic maps
- 2 MMTB
- 3 NZ Transverse Mercator 1:50000 topographic maps
- 4 15-m DEM with extra photogrammetry
- 5 15m DEM
- 6 25m DEM
- 7 15m DEM
- 8 15m DEM
- 9 15m DEM
- 10 15m DEM
- 11 15m DEM
- 12 15m DEM
- 13 Land Environments New Zealand (LENZ)
- 14 15m DEM
- 15 25m DEM
- 16 NZ Transverse Mercator 1:50000 topographic maps
- 17 15m DEM
- 18 15m DEM
- 19 25m DEM
- 20 Land Environments New Zealand (LENZ)
- 21 Land Environments New Zealand (LENZ)
- 22 Expert estimates of soils with National Soils Database and LRI information
- 23 MoW LUC/LRI maps. Often used 1:250000 soil and geology information
- 24 LUC and LRI (and erosion terrains which are from the same source)
- 25 Satellite imagery
- 26 15m DEM, satellite imagery (woody vegetation), 1:50000 LUC and Erosion Terranes

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Layer ID	<i>Limits to use</i>	<i>Date</i>
1	Not farm scale and always a little out due to continuous coastal erosion	5-Jun-14
2	Not based on a DEM or catchment boundaries	5-Jun-14
3	Not farm scale	5-Jun-14
4	Reduced accuracy on flats and rolling land	5-Jun-14
5	Reduced accuracy on flats and rolling land	5-Jun-14
6	Not farm scale and generated automatically, but generally quite accurate	5-Jun-14
7	Reduced accuracy on flats and rolling land	5-Jun-14
8	Reduced accuracy on flats and rolling land	5-Jun-14
9	Reduced accuracy on flats and rolling land	5-Jun-14
10	Reduced accuracy on flats and rolling land	5-Jun-14
11	Reduced accuracy on flats and rolling land	5-Jun-14
12	Reduced accuracy on flats and rolling land	5-Jun-14
13		5-Jun-14
14	Reduced accuracy on flats and rolling land	5-Jun-14
15	Based on 25m dem flow paths	5-Jun-14
16	Not farm scale	5-Jun-14
17	Reduced accuracy on flats and rolling land	5-Jun-14
18	Reduced accuracy on flats and rolling land	5-Jun-14
19	Not to be used at farm scale	5-Jun-14
20	Not to be used at farm scale	5-Jun-14
21	Not to be used at farm scale	5-Jun-14
22	Not to be used at farm scale	5-Jun-14
23	Not to be used at farm scale	5-Jun-14
24		5-Jun-14
25	Vegetation classes interpreted from satellite images.	5-Jun-14
26	Not to be used at farm scale	5-Jun-14

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Layer ID *Application*

- 1 Boundary for clipping coastal GIS layers.
- 2 MMTB boundary
- 3 Graphics showing roading infrastructure
- 4 Basis for any landscape related GIS modelling or mapping
- 5 Background map
- 6 Soil mapping, land versatility assessments, terrain assessment
- 7 Landform modelling, soil mapping, erosion modelling
- 8 Landform modelling, soil mapping, erosion modelling
- 9 Landform modelling, soil mapping, erosion modelling
- 10 Modelling to do with waterways, flood mitigation, soil mapping, catchment delineation
- 11 Modelling to do with waterways, flood mitigation, erosion, soil mapping
- 12 Modelling to do with waterways, flood mitigation, erosion, soil mapping
- 13 Vegetation modelling
- 14 Modelling to do with waterways, flood mitigation, and soil mapping
- 15 Modelling to do with waterways and erosion, stream order, association of catchments
- 16 Graphics showing waterways
- 17 Land use suitability, erosion risk, soil mapping
- 18 For determining land exposed to particular winds, also for identifying sunny areas
- 19 Climate modelling - understanding broad patterns of pasture/forest growth rates
- 20 Climate modelling - for rohe planning decisions
- 21 Climate modelling - for rohe planning decisions. Soil mapping.
- 22 The most detailed GIS map of soils in NZ
- 23 Wide range of purposes including evaluations of land versatility and erosion risk
- 24 Used to predict where soils occur
- 25 Snapshot of vegetation classes
- 26 Provides general picture of land at risk of severe mass movement erosion