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# Statistics New Zealand ANZLIC Metadata Template

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## Identification

<b>Title</b>	Regional Councils 2013
<b>Date</b>	30 November 2012 (publication)
<b>Language</b>	eng
<b>Character Set</b>	Uft8
<b>Abstract</b>	<p>This dataset is the definitive set of regional council boundaries for 2013 as defined by the Local Government Commission and/or regional councils themselves but maintained by Statistics New Zealand (the custodian).</p> <p>The regional council is the top tier of local government in New Zealand. There are 16 regional councils in New Zealand (defined by Part 1 of Schedule 2 of the Local Government Act 2002). Eleven are governed by an elected regional council, while five are governed by territorial authorities (the second tier of local government) who also perform the functions of a regional council and are known as unitary authorities. These unitary authorities are Auckland Council, Nelson City Council, and Gisborne, Tasman, and Marlborough District Councils. The Chatham Islands Council also performs some of the functions of a regional council, but is not strictly a unitary authority. Unitary authorities act as regional councils for the purposes of a wide range of legislative purposes. Regional councils are responsible for the administration of many environmental and transport matters such as land transport planning and harbour navigation and safety.</p> <p>Regional Councils were established in 1989 after the abolition of the 22 local government regions. The Local Government Act 2002 requires the boundaries of regions to conform, as far as possible, to one or more water catchments. When determining regional boundaries, the Local Government Commission gave consideration to regional communities of interest when selecting which water catchments to include in a region. It also considered factors such as natural resource management, land use planning and environmental matters. Some regional council boundaries are coterminous with territorial authority boundaries but there are several exceptions. An example is Taupo District, which is geographically split between four regions, although most of its area falls within the Waikato Region. Where territorial local authorities straddle regional council boundaries, the affected area is</p>

	<p>statistically defined by complete area units. In general, however, regional councils contain complete territorial authorities.</p> <p>The unitary authority of the Auckland Council was formed in 2010, under the Local Government (Tamaki Makarau Reorganisation) Act 2009, replacing the Auckland Regional Council and seven territorial authorities.</p> <p>The seaward boundary of any coastal regional council is the twelve mile New Zealand territorial limit.</p> <p>Regional councils are defined at meshblock and area unit level.</p> <p>Regional Councils included in the 2013 digital pattern are:</p> <table border="1"> <thead> <tr> <th>Regional Council Code</th><th>Regional Council Name</th></tr> </thead> <tbody> <tr><td>01</td><td>Northland Region</td></tr> <tr><td>02</td><td>Auckland Region</td></tr> <tr><td>03</td><td>Waikato Region</td></tr> <tr><td>04</td><td>Bay of Plenty Region</td></tr> <tr><td>05</td><td>Gisborne Region</td></tr> <tr><td>06</td><td>Hawke's Bay Region</td></tr> <tr><td>07</td><td>Taranaki Region</td></tr> <tr><td>08</td><td>Manawatu-Wanganui Region</td></tr> <tr><td>09</td><td>Wellington Region</td></tr> <tr><td>12</td><td>West Coast Region</td></tr> <tr><td>13</td><td>Canterbury Region</td></tr> <tr><td>14</td><td>Otago Region</td></tr> <tr><td>15</td><td>Southland Region</td></tr> <tr><td>16</td><td>Tasman Region</td></tr> <tr><td>17</td><td>Nelson Region</td></tr> <tr><td>18</td><td>Marlborough Region</td></tr> <tr><td>99</td><td>Area Outside Region</td></tr> </tbody> </table> <p>As at 1<sup>st</sup> July 2007, Digital Boundary data became freely available.</p>	Regional Council Code	Regional Council Name	01	Northland Region	02	Auckland Region	03	Waikato Region	04	Bay of Plenty Region	05	Gisborne Region	06	Hawke's Bay Region	07	Taranaki Region	08	Manawatu-Wanganui Region	09	Wellington Region	12	West Coast Region	13	Canterbury Region	14	Otago Region	15	Southland Region	16	Tasman Region	17	Nelson Region	18	Marlborough Region	99	Area Outside Region
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<b>Topic category</b>	boundaries																																				
<b>Spatial representation type</b>	vector																																				

## Extent

<b>Description</b>	Twelve mile New Zealand territorial limit
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## Geographic Box

West bound longitude	165.905646
East bound longitude	179.855610
North bound latitude	-33.826584
South bound latitude	-47.841491

## Extent

TEMPORAL	
Description	Data represents regional council polygons dissolved since 1991
Begin date	1991-01-01
End date	2013-01-01
Access Constraints	None. Data is freely downloadable from the Statistics NZ website.
Use constraints	<p>These conditions of supply apply to all users of Statistics New Zealand digital boundaries effective 1 July 2007.</p> <p><b>Permitted uses</b> Statistics New Zealand must be acknowledged as the source of the boundaries.</p> <p><b>Uses not permitted</b> Users are not permitted to change the accuracy of the boundaries and supply them to another party.</p> <p><b>Liability</b> While care has been taken to compile these boundary coordinates, Statistics New Zealand gives no warranty that the data supplied is free from error. Statistics New Zealand shall not be liable for any loss suffered through the use, directly or indirectly, of any information, product or service.</p>
Use limitation	
Maintenance and update frequency	<p>The meshblock pattern and associated hierarchies are maintained on a regular basis.</p> <p>An annual pattern is made available for each year up to 2013.</p>
Date of next update	December 2013.
Update scope	Dataset

## Point of Contact

Organisation name	Statistics New Zealand
Position name	Geospatial Analyst
Role	Point of Contact
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<b>Linkage</b>	<a href="http://www.stats.govt.nz/browse_for_stats/people_and_communities/Geographic-areas/digital-boundary-files.aspx">http://www.stats.govt.nz/browse_for_stats/people_and_communities/Geographic-areas/digital-boundary-files.aspx</a>

## Distribution Info

<b>Distribution format</b>	ESRI Geodatabase ESRI Shape MapInfo Tab
<b>Distribution version</b>	1.0
<b>Online resource linkage</b>	<a href="http://www.stats.govt.nz/browse_for_stats/people_and_communities/Geographic-areas/digital-boundary-files.aspx">http://www.stats.govt.nz/browse_for_stats/people_and_communities/Geographic-areas/digital-boundary-files.aspx</a>
<b>Online resource description</b>	Web page for downloading the digital geographic boundaries of which the regional council boundaries is part of the bundle of boundaries/geographies StatsNZ makes available

## Reference system info

<b>Title</b>	New Zealand Transverse Mercator 2000 (NZTM2000)
<b>Date</b>	1 July 2001
<b>Edition</b>	
<b>Code</b> (page 128 of Guidelines)	19971

## Data quality info scope

<b>Hierarchy level</b>	Dataset
<b>Description</b>	New Zealand Regional Council Boundaries

## Lineage

<p><b>Statement</b> (general explanation of the data producer's knowledge about the lineage of a dataset)</p>	<p>Regional council boundaries are based on the meshblock pattern. Non-alignment of meshblock and cadastral boundaries are one of a number of reasons for meshblock boundary adjustments. Other reasons include requests from local authorities, Local Government Commission, Electoral Representation Commission and to make Census of Population and Dwellings enumeration processes easier.</p> <p>From the meshblock pattern, higher geographies, including the 2013 Regional council pattern were dissolved using the dissolve tool in the Arc GIS suite to create multiple output datasets.</p>
<p><b>Description</b> (detailed description of the level of the source data)</p>	<p>The original vertices delineating the meshblock boundary pattern were digitised in 1991 from 1:5,000 scale urban maps and 1:50,000 scale rural maps. The magnitude of error of the original digital points would have been in the range of +/- 10 metres in urban areas and +/- 25 metres in rural areas. Where meshblock boundaries coincide with cadastral boundaries the magnitude of error will be within the range of 1–5 metres in urban areas and 5 - 20 metres in rural areas. This being the estimated magnitude of error of Landonline.</p> <p>The creation of high definition and generalised meshblock boundaries for the 2013 digital pattern and the dissolving of these meshblocks into other geographies/boundaries were completed within Statistics New Zealand using ESRI's ArcGIS desktop suite and the Data Interoperability extension with the following process:</p> <ol style="list-style-type: none"> <li>1. Import data and all attribute fields into an ESRI File Geodatabase from LINZ as a shapefile</li> <li>2. Run geometry checks and repairs.</li> <li>3. Run Topology Checks on all data (Must Not Have Gaps, Must Not Overlap), detailed below.</li> <li>4. Generalise the meshblock layers to a 1m tolerance to create generalised dataset.</li> <li>5. Clip the high definition and generalised meshblock layers to the coastline using land water codes.</li> <li>6. Dissolve all four meshblock datasets (clipped and unclipped, for both generalised and high definition versions) to higher geographies to create the following output data layers: Area Unit, Territorial Authorities, Regional Council, Urban Areas, Community Boards, Territorial Authority Subdivisions, Wards, Constituencies and Maori Constituencies for the four datasets.</li> <li>7. Complete a frequency analysis to determine that each code</li> </ol>

	<p>only has a single record.</p> <ol style="list-style-type: none"> <li>8. Re-run topology checks for overlaps and gaps.</li> <li>9. Export all created datasets into MapInfo and Shapefile format using the Data Interoperability extension to create 4 output formats for each file.</li> <li>10. Quality Assurance and rechecking of delivery files.</li> </ol> <p>The High Definition version is similar to how the layer exists in Landonline with a couple of changes to fix topology errors identified in topology checking.</p> <p>The following quality checks and steps were applied to the meshblock pattern:</p> <p><b>Translation of ESRI Shapefiles to ESRI geodatabase dataset</b> The meshblock dataset was imported into the ESRI File Geodatabase format, required to run the ESRI topology checks. Topology rules were set for each of the layers.</p> <p><b>Topology Checks</b> A tolerance of 0.1 cm was applied to the data, which meant that the topology engine validating the data saw any vertex closer than this distance as the same location. A default topology rule of “Must Be Larger than Cluster Tolerance” is applied to all data – this would highlight where any features with a width less than 0.1cm exist. No errors were found for this rule.</p> <p>Three additional topology rules were applied specifically within each of the layers in the ESRI geodatabase – namely “Must Not Overlap”, “Must Not Have Gaps” and “Area Boundary Must Be Covered By Boundary Of (Meshblock)”. These check that a layer forms a continuous coverage over a surface, that any given point on that surface is only assigned to a single category, and that the dissolved boundaries are identical to the parent meshblock boundaries.</p> <p><b>Topology Checks Results:</b> There were no errors in either the gap or overlap checks.</p> <p><b>Generalising</b> To create the generalised Meshblock layer the “Simplify Polygon” geoprocessing tool was used in ArcGIS, with the following parameters:</p> <ul style="list-style-type: none"> <li>Simplification Algorithm: POINT_REMOVE</li> <li>Maximum Allowable Offset: 1 metre</li> <li>Minimum Area: 1 square metre</li> <li>Handling Topological Errors: RESOLVE_ERRORS</li> </ul>
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	<p><b>Clipping of Layers to Coastline</b></p> <p>The processed feature class was then clipped to the coastline. The coastline was defined as features within the supplied Land2013 with codes and descriptions as follows:</p> <ul style="list-style-type: none"> <li><b>11-</b> Island – <i>Included</i></li> <li><b>12-</b> Mainland – <i>Included</i></li> <li><b>21-</b> Inland Water – <i>Included</i></li> <li><b>22-</b> Inlet – <i>Excluded</i></li> <li><b>23-</b> Oceanic – <i>Excluded</i></li> <li><b>31-</b> Other – <i>Included</i>.</li> </ul> <p>Features were clipped using the Data Interoperability extension, attribute filter tool. The attribute filter was used on both the generalised and high definition meshblock datasets creating four meshblock layers. Each meshblock dataset also contained all higher geographies and land-water data as attributes.</p> <p><i>Note: Meshblock 0017001 which is classified as island, was excluded from the clipped meshblock layers, as most of this meshblock is oceanic.</i></p> <p><b>Dissolve meshblocks to higher geographies</b></p> <p>Statistics New Zealand then dissolved the ESRI meshblock feature classes to the higher geographies, for both the full and clipped dataset, generalised and high definition datasets. To dissolve the higher geographies, a model was built using the dissolver, aggregator and sorter tools, with each output set to include geography code and names within the Data Interoperability extension.</p> <p><b>Export to MapInfo Format and Shapefiles</b></p> <p>The data was exported to MapInfo and Shapefile format using ESRI's Data Interoperability extension Translation tool.</p> <p><b>Quality Assurance and rechecking of delivery files</b></p> <p>The feature counts of all files were checked to ensure all layers had the correct number of features. This included checking that all multipart features had translated correctly in the new file.</p>
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## Metadata

<b>File identifier</b>	
<b>Language</b>	eng
<b>Character set</b>	Utf8
<b>Hierarchy level</b>	dataset

<b>Hierarchy level name</b>	Dataset – Regional Councils -2013
<b>Date stamp</b>	2013-01-01
<b>Metadata standard name</b>	ANZLIC Metadata Profile
<b>Metadata standard version</b>	1.1

## Metadata author

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