## Data Supply Metadata s7

Project	Christchurch Earthquake Feb 2011	11.010
Sub Area	Akaroa and Christchurch Coverage	

	This dataset is the seventh of a series that NZ Aerial Mapping (NZAM) is		
	producing in response to the recent earthquake in Canterbury. The dataset		
	contains orthophotos over Akaroa, and a resupply of the complete data set		
	over Christchurch. Users wishing to append to their existing data need only		
	extract the Akaroa data from this hard drive. Users wishing to obtain the		
	entire data set should extract all data from this hard drive. The maps at the		
Cummon of	end of this document show the coverage. The orthophotos have a ground		
Summary of Data	sample distance of 10cm. The data supply includes the following products:		
	Aerial Photography		
	Photo centre positions		
	Orthophotos		
	Orthophoto tile layout		
	Manifester Lines		

• Mosaic seam lines

Data	The photography was collected flying at 1,600m above the ground using a Vexcel UCXp large format digital aerial camera. The photography was acquired on 24 February 2011 between the hours of 11am and 6pm.
Acquisition	To support the georeferencing of the photography a GPS base station receiver was operated at a temporary survey mark that NZAM established at Christchurch Airport.

	In order to expedite their production these orthophotos were produced using a number of shortcuts that would not be followed for a fully specified orthophoto project. While the orthophotos are fit for use by experienced geodata users they are not suitable for general distribution.
	POS observations collected at the GPS base station and in the aircraft. This
	base station was computed using single baseline processing and data
Data	magnitude of the earthquake it is likely that the location of MQZG has
Processing	that the coordinate for MQZG had not changed.
	For the orthophoto generation NZAM used DTM sourced from within our archive. This DTM was not edited or checked for change.
	Automated mosaic seam line placement was used during the orthophoto production. We chose to use a simple 'most nadir 'algorithm for their placement. This selects the most central portion of each available phote and
	thereby helps minimise the amount of perspective view lean on buildings.
	The seam lines can be clearly seen on some of the photography.

	The geodata is all in terms of New Zealand Transverse Mercator map projection.
	The folder <i>AerialPhotography</i> contains low resolution versions of the aerial photos. The data is in jpeg file format. The full resolution images are approximately 600 Mbytes each and therefore it is not practical to supply all of these for rapid distribution.
Data Supply	The folder <i>Orthophotos</i> contains the orthophotos. They are tiled into NZTopo50 1:1000 tiles and named using the convention NZTopo50PrimeAABB (e.g. BX0302). The orthophotos are supplied in ECW file format.
	The folder <i>SupportData</i> contains photo centres for the aerial photography, the orthophoto tile layout and a seam line file. These are all in ESRI shape file format. The seam line file is provided to aid photo interpretation by making users aware of where there may be seam line mismatches in the dataset.
	If you have requirements for the data in other file formats, map projections please contact NZAM.

	The orthophotos have only had a cursory review. Given that the DTM was
	not updated and checked it is likely that the orthophotos will include areas
	were the imagery appears smeared or is out of position.
Quality	
Exceptions	While we endeavoured to collect cloud free photography there is the odd puff
	of cloud and cloud shadow in the imagery. This would not be acceptable for
	a fully specified orthophoto project, but they do not significantly impact on
	the useability of the photography for the earthquake response work.

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Appendix A: Project Sub Area

