Data Supply Metadata s1

Project	Christchurch 23 December 2011 Earthquake Response	11.141
Client	EQC c/o Tonkin and Taylor	
Client Contact	Sjoerd van Ballegooy	

	Following the 23 December 2011 earthquake NZ Aerial Mapping (NZAM)	
	collected aerial photography over areas of interest in the vicinity of	
	Christchurch. The data has been processed into the set of orthophotos	
	contained in this data supply. This supply contains the following products:	
Summary of Data	 Orthophotos Project extent and orthophoto tile layout datasets Please refer to the report sections <i>Data Processing</i> and <i>Data Supply</i> for details 	
	on them.	

	The photography was collected flying at 1,600m above the ground using
	NZAM's Vexcel UCXp large format digital aerial camera. It was acquired
	during the afternoon of 24 December 2011. The afternoon was not a clear blue
Data	sky day and the odd patch of cloud and cloud shadow was photographed.
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.
Data Processing	The aerial photos position and orientation (POS) were determined using the POS observations collected at the GPS base station and in the aircraft. This data was processed using NZGD2000 reference system. GNS provided information that the LINZ geodetic reference mark MQZG and Geosystems iBASE reference mark WIGRAM had not moved significantly during the earthquake. NZAM used this knowledge to check the coordinate for the temporary survey mark that we established at Christchurch Airport.

	The orthophotos were produced using an edited version of DTM that NZAM	
	created from the post June 2011 earthquake LiDAR dataset. Due to the	
	changes that have taken place within the project area since the LiDAR	
	acquisition it was necessary to undertake a comprehensive review of the	
Data	DTM.	
Processing		
continued	Generally the most nadir potions of photos were used when generating	
	mosaic seam-lines. This ensures that building lean in the orthophotos is	
	minimised. If it was possible to eliminate areas of cloud from the orthophotos	
	by used potions of photos beyond the most nadir then this was done.	



<i>r</i> , due to the requirement to expedite the photo acquisition the ains a few patches of cloud and cloud shadow. Fortunately the extensive and generally ground detail can still be observed

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Date of Metadata Creation	6 January 2012
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Appendix A: Project Area and data tile layouts

Areas of interest shown as purple outline.

