ECAN LiDAR DATA, 05-11/09/2010, post Greendale earthquake

Access to ECAN's LiDAR DATA, captured 05-11/09/2010, post Greendale earthquake, requires signoff on their data supply conditions with the UC GeoSpatial Data Custodian.

Data overview

Data Type: Lidar, Lidar Differencing & Orthophotos Source: NZ Aerial Mapping (NZAM) Date of Capture: 05-11/09/2010 Format:

- Ground & non ground point clouds (ASCII xyz files in compressed .rar format)
- ESRI file geodatabase multipoint features & terrains
- 0.5 metre contours (ESRI shapefile)
- DEM & hillshades (ESRI GRID)
- 1 dimension lidar difference models (ESRI GRID & AAIGRID)
- Aerial photography (TIFF & ECW format)

The supplied products are all in terms of the New Zealand Transverse Mercator (NZTM) map projection, and NZTopo50 1:1,000 tiles (480m x 720m).

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Sept 2010 Metadata: Essential Reading!

This dataset amounts to ~23 GB, in 718 folders, totalling 16,108 files. At the top level there are 12 folders (see Figure 1 below): ECW; Lidar Differencing; and paired Lidar and Ortho folders for the following five areas of interest (AOI): Christchurch (Chch); fault trace; Hornby Halswell; Kaiapoi; and Selwyn Huts (see Figure 2 below).

Each folder (except ECW) contains a metadata 'supply' file in a series s1 to s10 (see the links below Figure 1). There is no s6 or s8, and in some cases one series may cover many AOI's. Finally, the 'as delivered' folder structure varies from that described in the metadata, in that there is no PointCloud folder - just Ground and Non Ground tiles in ASCII file XYZ format.

Figure 1: Overview of the Sept 2010 LiDAR folder structure



The Metadata folder has more documentation.

- 10.130 metadata s10 Lidar Differencing.pdf
- 10.130 metadata s4 Chch Lidar rev1.pdf
- 10.130_metadata_s1_Chch_Orthos.pdf
- 10.130_metadata_s9_fault_trace_Lidar.pdf
- 10.130_metadata_s3_fault_trace_Orthos.pdf
- 10.130_metadata_s7_Halswell_Lidar.pdf
- 10.130_metadata_s3_Halswell_Orthos.pdf
- 10.130_metadata_s5_Kaipoi_Lidar_rev1.pdf
- 10.130_metadata_s2_Kaipoi_Orthos.pdf
- 10.130_metadata_s7_Selwyn_Lidar.pdf
- 10.130_metadata_s3_Selwyn_Orthos.pdf

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