

Data Summary for Canopy Biomass LiDARs (CBLs) deployed in Brisbane Field Campaign

Instruments: Two identical CBLs were deployed in the Brisbane field campaign, nicknamed Candi and Bruno. Both instruments participated in calibration activities on 2013-07-29, but Candi was failing to return to the start position at the end of each scan. This problem suggested a mechanical limit switch issue, and persisted into the first day of fieldwork, so Bruno was primarily used throughout the Brisbane field campaign.

Sampling scheme: At the KARA001, KARA005 and GOLD0101 sites the CBL was deployed on the cardinal and center markers, as per the other TLS. In addition, to improve resolution and information, CBL was deployed at points measured equidistant between each pair of cardinal points and between each cardinal point and the center (see Figure 1). Thus a total of 13 points were scanned at each site, with at least two scans being taken at each in most areas.

Field notes: Field notes have been summarized on a per-site basis into spreadsheets and include information regarding the location, settings and contents of each scan, referencing the complete scan file name. For the main field sites each spreadsheet contains an overview map showing the spatial relationship of the scans.

Additional sampling

Single tree: At Karawatha (adjacent to KARA002) there was an effort by several of the TLS to scan a single tree from multiple angles. CBL was deployed at the three points at which the other TLS were deployed, and in addition scans were taken at points roughly equidistant between the other TLS points and the single tree. Details can be found in the scanning notes (07292013KarawathaSingleTree.xlsx).

KARA002: CBL was deployed to KARA002 (not an L-TER) on the day after the rest of the TLS had scanned calibration target points, the center point, and one additional point to improve information (see scanning notes 07302013KarawathaSite2.xlsx for details).

Press and TLSIIG Team: On the day of the press visit to Karawatha CBL scanned a group of the press (see 07312013KarawathaSite1.xlsx) and on 08/02/2013 CBL scanned the circle of TLSIIG team members.

