



# CLOK Mapping Report 2019/20



Since the 2019 AGM these are the areas that have been worked on:

## **Boltby Forest**

Some minor planner's updates were made to the map by Duncan Archer.

## **Autumn Short Race Series**

Chris Wright made substantial revisions to the following areas: **Kiplin Hall, Staithes village, Hardwick Park and Teesside University.**

Chris surveyed the updates and Paul Taylor completed the cartography.

## **Flatts Lane Woodland Park**

A completely new map was produced with the aid of good coverage of LIDAR, enabling accurate contours and better vegetation. Basic cartography was made by Paul Taylor and Dennis Hooton updated the detail prior to the New Year Team event.

## **Errington Woods**

Several minor updates made to the paths

## **Ayton Moor**

Update survey by Chris Wright and Dennis Hooton. There is still not enough LIDAR coverage to make a complete revision worthwhile at this time.

## **Sneaton West**

Currently up to date for JK2020 but there is some forestry work planned for several blocks in the near future.

The extension made for the JK model event is scheduled for clear-felling.

## **Stockton and Thornaby Riverside and the Tees Barrage**

The riverside is currently up to date, but the Barrage area may be in need of an update. Some late amendments made to the JK2020 competition maps need to be applied to the whole map.

## **Hutton Mulgrave and Skelder**

Completely re-surveyed and redrawn for JK2020.

The map is now out of date. A change in shooting tenant and current forestry work will necessitate map updates for future use.

## **Graystone Moor**

New map created by Paul Taylor during the spring lockdown. Used for a very successful event in August.

## **Hemlington**

New map of Hemlington Lake and the surrounding housing areas created by Dennis Hooton, with the contours provided from LIDAR via Paul Taylor. Event planned for November 2020.

## **South Burdon Woods**

New map drawn from LIDAR and other images by Paul Taylor during the spring lockdown. Field survey by Dennis Hooton.

### **Newham Grange Park and Elm Tree**

New map in progress. Extension of Phill Batts' map of Newham Grange Park, Stockton and surrounding urban areas and woodland. Drawn from OS images and LIDAR by Paul Taylor with field check by Roy Bradley.

### **Coatham Woods**

Map updated by Dennis Hooton based on details from Al Mathers.

### **Birk Brow**

The map was seriously out of date, so an extensive update has been done by Dennis Hooton including new contours from LIDAR via Paul Taylor.

### **Coatham Dunes**

This is an extension to the map of South Gare, including extra dunes between the golf course and the beach all the way down to the Majuba Road car park. Field check required at time of report.

### **Wilton Woods and Lazenby Banks**

Field survey planned for this coming winter.

### **Coate Moor**

Good LIDAR cover is now available. Paul Taylor started a completely new map during 'lockdown'. Yet to be completed.

### **Sneaton East**

Extensive current forest operations will necessitate map updates before any future use.

### **New areas for consideration?**

Answers on a postcard?

## **Other mapping reports:**

### **OCAD**

OCAD is the most popular cartographic programme used for the production of orienteering maps. As a simple guide, the capabilities of the different OCADs are:

- |                |   |
|----------------|---|
| OCAD8          | Provides all the essential drawing capabilities. Has a basic facility to copy from a scanned image as a template. CLOK has several licences.  |
| OCAD9          | Can work in draught mode, which enhances the use of a background image. CLOK has two licences   |
| OCAD10         | LIDAR (Light direction and ranging). Saves masses of surveying time. CLOK has two licences  |
| OCAD11         | Can do much more with complex LIDAR downloads. Also has a few other extra features. Currently in use by Dennis Hooton. CLOK has two licences.   |
| OCAD 2018 – 21 | Has a LIDAR wizard to enhance the creation of digital terrain and surface models. Also has a few other fancy features. OCAD is no longer providing a 'forever' licence. We are obliged to take out a subscription for 1 or 3 years. At the moment, the licence is held by Paul Taylor, but it can be transferred (via OCAD in Switzerland) to anybody else on a temporary or permanent basis at any time. |

## **GEOREFERENCING**

This is an expression that describes an essential process before a modern orienteering map can be produced. The cartography is merely a 'tracing and colouring-in' exercise on top of a background. These days we need to ascribe BNG (British National Grid) co-ordinates to the background map, which is usually an Ordnance Survey map at an appropriate large scale. The co-ordinates on the OCAD image will match a reading taken with a hand-held GPS.

Once georeferenced, important aids to mapping such as LIDAR imagery and georeferenced aerial photography can be imported as additional backgrounds in exactly the correct position.

All current CLOK maps are georeferenced.

## **LIDAR (Light Direction And Ranging)**

Imagery can be downloaded freely from the Environment Agency. This can enable the production of accurate and detailed land contours by the creation of a DTM (Digital Terrain Model). Vegetation zones and buildings can be identified by a DSM (Digital Surface Model).

LIDAR coverage is improving but there are still several mapped areas for which there is no material available.

**Paul Taylor / Dennis Hooton**