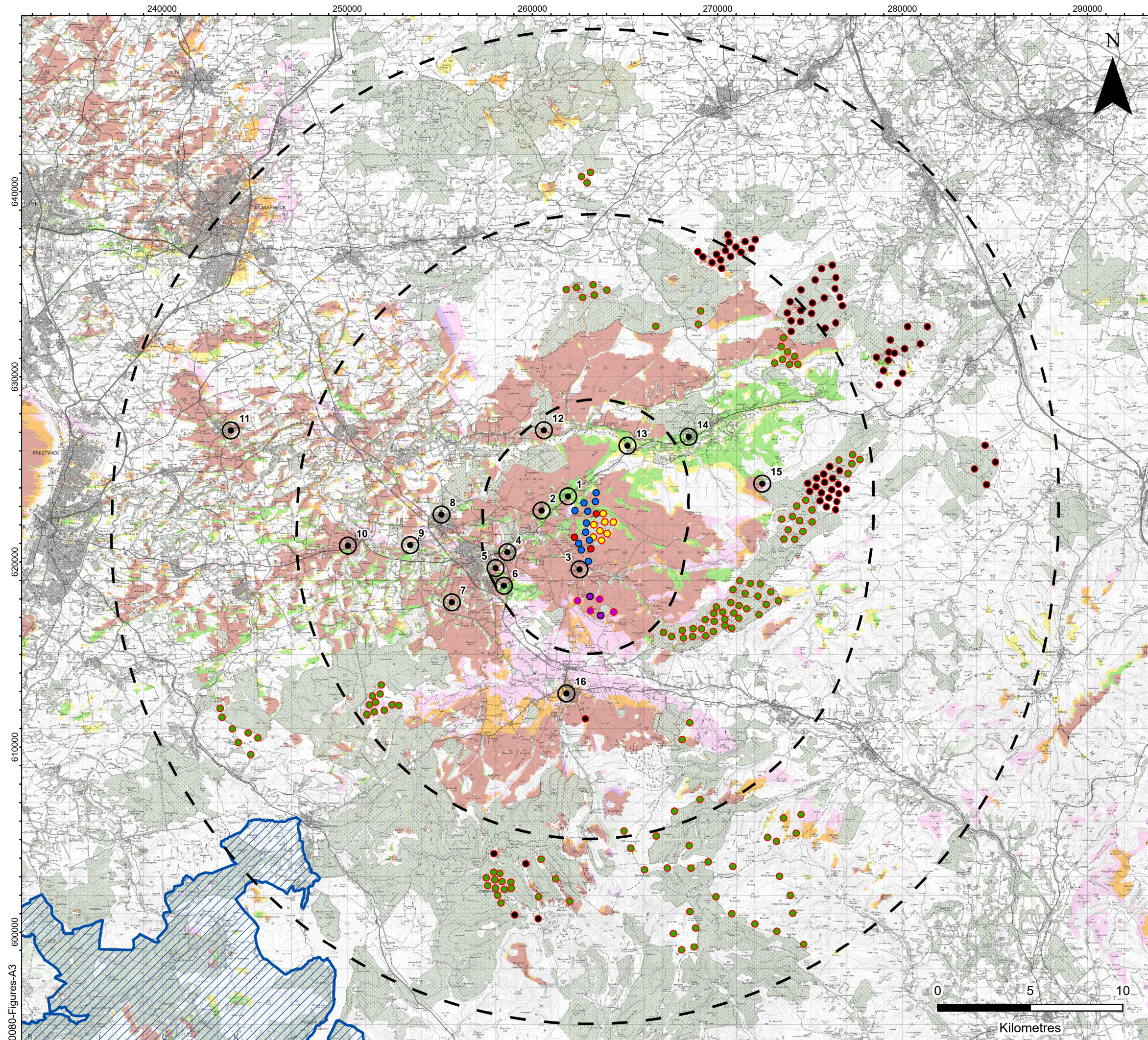




LEGEND

- Proposed turbine (lit)
- Proposed turbines (unlit)
- Distance from Turbines (5, 15, 25km)
- Viewpoints
- Buildings
- Woodland
- Galloway Dark Sky Park
- Wind Farms in Planning (lit and unlit)**
 - The Drum (lit)
 - Glen Water (lit)
 - Glen Water (unlit)
- Other Lit Wind Turbines**
 - Operational turbines with lights
 - Consented turbines with lights
- Zone of Theoretical Visibility to Dalfad, The Drum and Glen Water aviation lights**
 - Dalfad lights visible
 - The Drum lights visible
 - Dalfad and The Drum lights visible
 - Glen Water lights visible
 - Dalfad and Glen Water lights visible
 - Glen Water and The Drum lights visible
 - Lights on all sites visible

NOTES

This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the Viewshed routine in the Visibility Analysis plugin for QGIS. The areas shown are the maximum theoretical visibility, taking into account topography, principal woodlands and buildings.

A digital surface model (DSM) has been derived from OS Terrain 50 height data with the locations of woodland and buildings taken from the OS Open Map Local dataset. Buildings have been modelled with an assumed height of 7.5m and woodland an assumed height of 15m, representing a conservative estimate of average heights within the study area.

The model does not take into account some localised features such as small copses, hedgerows or individual trees and therefore still gives an exaggerated impression of the extent of visibility. The actual extent of visibility on the ground will be less than that suggested by this plan.

The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on a derived DSM and has a 50m resolution.

 **brockwell energy**

 **SLR**

DALFAD WIND FARM

EIA REPORT

CUMULATIVE ZTV:

AVIATION LIGHTING IN PLANNING

FIGURE 4.12

Scale 1:200,000 @ A3

Date SEPTEMBER 2026