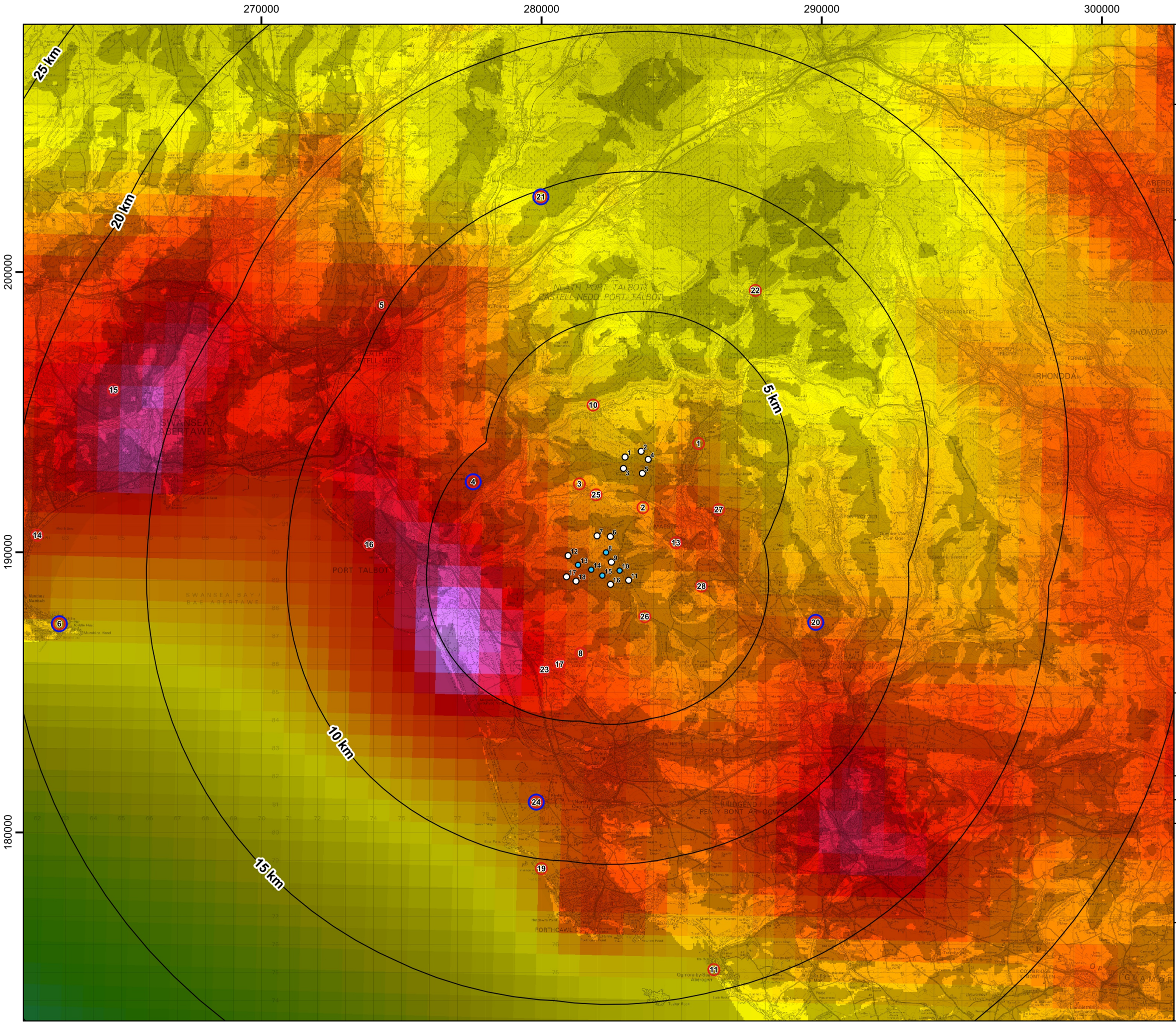
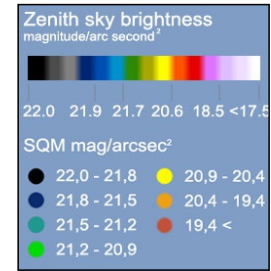




Project:
**Y Bryn Wind Farm, Neath
Port Talbot/Bridgend**

Title:
**Figure 8.86: Predicted Light
Pollution in Areas of
Theoretical Visibility of Aviation
Lighting**

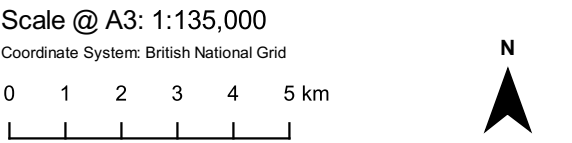
- Key**
- Proposed turbine with aviation lighting
 - Proposed turbine without aviation lighting
 - Viewpoint
 - Night-time viewpoint
 - Distance from outermost turbines
 - Theoretical visibility of aviation lighting



Notes & Credits:

- * ZTV demonstrates potential visibility of the aviation warning lighting only. Whole or parts of turbines themselves may be visible where no lighting is illustrated.
- * Predicted visible lighting intensity does not take account of distance.
- * Visibility takes earth curvature and atmospheric refraction into account, but not daylight/weather conditions, buildings, trees or other surface obstacles.
- * ZTV calculated for the 13 lit turbines, of which 1 (T9) is at 175.5 m nacelle height, 2 (T6 & T7) are at 155.5 m nacelle height, and the remaining 10 are at 131.5 m nacelle height.
- * Viewpoint height set at 2 m AGL.
- * Credits for the World Atlas of Artificial Night Sky Brightness: Jurij Stare, www.lightpollutionmap.info; Falchi, Fabio; Cinzano, Pierantonio; Duriscoe, Dan; Kyba, Christopher C. M.; Elvidge, Christopher D.; Baugh, Kimberly; Portnov, Boris; Rybnikova, Nataliya A.; Furgoni, Riccardo (2016).

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