

# **Advice on locations where Coastal Adaptation measures may affect Coastal Access over the lifetime of the Shoreline Management Plans**

Report No: 435

Author Name: Dewey, N., Lockhart, E., Ringwood, O.

Author Affiliation: ABPmer

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# 1. Crynodeb Gweithredol

Roedd CNC am ddeall ble y gallai gweithredu uned bolisi Cynllun Rheoli Traethlin (CRhT) yn nosbarth 'Dim Ymyrraeth Weithredol' (DYW) neu 'Adlinio a Reolir' (AR) effeithio ar Hawliau Tramwy Cyhoeddus (HTC) neu Lwybr Arfordir Cymru. Nod hyn yw deall graddfa gofynion llwybrau troed o'r fath yn y dyfodol o safbwynt deddfwriaeth a rheolaeth. Mae hyn yn arbennig o bwysig os oes strwythur arfordirol (at ddibenion y prosiect hwn, "strwythur arfordirol" yw un sy'n atal y môr rhag cyrraedd tir y tu ôl iddo ac sy'n anthropogenig ei wneuthuriad) sy'n ategu neu'n gwarchod y llwybr mynediad ac a all wynebu newid o ran rheolaeth dros bob epoc CRhT.

Prif amcanion yr astudiaeth hon oedd canfod:

- pa amddiffynfeydd arfordirol y gallai gweithredu polisiau DYW neu AR effeithio arnynt;
- pa lwybrau arfordirol (HTC a/neu rannau o Lwybr Arfordir Cymru) y gallai gweithredu polisiau DYW neu AR effeithio arnynt, h.y. pa lwybrau troed y gellid effeithio arnynt pe na bai amddiffynfeydd arfordirol yn cael eu cynnal mwyach;
- cyfanswm hyd rhannau'r llwybr troed yr effeithir arnynt;
- uned bolisi'r CRhT a'r ardal Awdurdod Lleol lle y lleolir y llwybrau troed yr effeithir arnynt; a
- phryd y gellid effeithio ar lwybrau troed arfordirol h.y. ym mha epoc CRhT.

Cynlluniwyd methodoleg prosesu System Gwybodaeth Ddaearyddol (GIS) fel y gellid adrodd ar bob lleoliad lle y gallai newid y polisi ar reoli amddiffynfa arfordirol ategol/warchodol effeithio ar HTC neu Lwybr Arfordir Cymru (a elwir ar y cyd yn llwybrau troed). Gallai hyn fod mewn achosion, er enghraifft, lle mae wedi'i leoli ar ben strwythur arfordirol (amddiffynfa)—neu'n cael ei warchod ganddo—a all wynebu newid o ran rheolaeth dros bob epoc CRhT. Yn ogystal, cynlluniwyd yr allbynnau er mwyn gallu eu holi fesul Uned Bolisi CRhT, epoc CRhT, ac ardal Awdurdod Lleol, sy'n gallu rhoi syniad o gyfanswm hyd yr HTC a rhannau'r llwybr Arfordir Cymru yr effeithir arnynt ym mhob un o'r categorïau hyn. Cynlluniwyd y dull gweithredu cyffredinol er mwyn iddo fod yn wrthrychol ac yn seiliedig ar dystiolaeth, fel y gellir ei atgynhyrchu yn y dyfodol a lleihau cymhlethdodau a gyflwynir gan oddrychedd.

Roedd allbynnau'r astudiaeth hon yn cynnwys:

- taenlen o'r holl lwybrau troed yr effeithir arnynt, wedi'u rhestru yn ôl rhif adnabod unigryw y llwybr, yn ogystal â rhif adnabod yr amddiffynfa arfordirol gysylltiedig a phob uned bolisi groestoriadol. Mae'r awdurdod lleol y mae'r rhan o'r llwybr wedi'i leoli ynddo, a hyd y llwybr (mewn metrau), wedi'u cynnwys hefyd;
- 'ffeiliau siâp' GIS o lwybrau y gellid effeithio arnynt a nodwyd yn yr astudiaeth hon; a
- 'ffeiliau siâp' GIS o amddiffynfeydd arfordirol a'r 'parth yr effeithir arno' o ran dylanwad posibl amddiffynfeydd a ddefnyddiwyd yn yr astudiaeth.

Gellid effeithio ar gyfanswm o 24.5 km, 76.8 km a 92.1 km o HTC, a 17.9 km, 45.5 km a 57.2 km o Lwybr Arfordir Cymru, yn epocau 1, 2 a 3, yn y drefn honno, yn sgil gweithredu naill ai polisi CRhT DYW neu AR.

Fodd bynnag, dylid nodi mai amcangyfrifon lefel uchel yw'r niferoedd hyn o lwybrau troed y gallai gweithredu'r polisiau effeithio arnynt dros y cyfnodau hyn. Yn ymarferol, mae nifer o

gyfyngiadau'n gysylltiedig â'r data a fewnbynnir, yn ogystal â chyfres o dybiaethau lefel uchel sydd wedi'u cynnwys yn y fethodoleg, sy'n dylanwadu ar y cywirdeb y gellir ei gyflawni yn y canlyniadau. Byddai nifer o baramedrau sy'n benodol i safleoedd hefyd yn dylanwadu ar y graddau y mae gweithredu polisïau CRhT DYW ac AR yn effeithio ar lwybrau troed unigol.



## 2. Executive summary

NRW wished to understand where Public Rights of Way (PRoW) or the Wales Coast Path (WCP) could be affected by the implementation of a Shoreline Management Plan (SMP) policy unit classified as 'No Active Intervention' (NAI) or 'Managed Realignment' (MR). This is to ensure that the scale of the future legislative and management requirements of such footpaths is understood. This is particularly important if there is a coastal structure (for the purposes of this project, a "coastal structure" is one that prevents sea accessing land behind and is anthropogenically made) which supports or protects the access route and may face a management change over each SMP epoch.

The key objectives for this study were to determine:

- which coastal defences could be affected by the implementation of NAI or MR policies;
- which coastal footpaths (either PRoWs and/or sections of the WCP) may be affected by the implementation of NAI or MR policies, i.e. which footpaths may be affected if coastal defences are no longer maintained;
- the total length of the affected sections of footpath;
- the SMP policy unit and Local Authority area in which the affected footpaths are located; and
- when coastal footpaths may be affected i.e. in which SMP epoch.

A GIS processing methodology was designed to provide the ability to enable reporting on all locations where a PRoW or the WCP (collectively described as footpaths) could be affected by a change in a management policy of a supporting/protecting coastal defence. This could be, for example, where it is located on top of, or protected by, a coastal structure (defence) that may face a management change over each SMP epoch. Additionally, the outputs were designed to be interrogated by SMP Policy Unit, SMP epoch and Local Authority area, which can provide an indication of the total length of affected PRoWs and WCP for each of these categories. The overall approach was designed to be objective and evidence-based, allowing reproducibility in the future and reducing complications introduced by subjectivity.

The outputs of this study included:

- a spreadsheet of all affected footpaths, listed by unique path ID, as well as the associated coastal defence ID and each intersecting policy unit. The local authority in which the section of path is located and the length (in metres) of path is also included;
- GIS shapefiles of potentially affected footpaths identified in this study; and
- GIS shapefiles of coastal defences and the 'affected zone' of potential influence of defences used in the study,

A total of 24.5 km, 76.8 km and 92.1 km of PRoW and 17.9 km, 45.5 km and 57.2 km of WCP could potentially be affected in epochs 1, 2 and 3 respectively, due to the implementation of either a NAI or MR SMP policy.

However, it should be noted that these numbers represent high level estimates of footpaths that could be affected by the implementation of these policies over these timescales. In practice there are a number of limitations associated with the input data, as well as a series of high-level assumptions that are factored into the methodology, which

influence the degree of accuracy that can be achieved within the results. A number of site-specific parameters would also influence the extent to which individual footpaths are affected by the implementation of both NAI and MR SMP policies.

### 3. Introduction

The second round of Shoreline Management Plans (SMP2s), which were approved by the Minister for Natural Resources Wales (NRW) in 2014, set out the strategic policy direction for coastal management for the entire Welsh Coast.

Shoreline Management Plans (SMPs) are divided into 'policy units' with preferred management policies assigned over three epochs: short term (Epoch 1) 0-20 years (2005-2025); medium term (Epoch 2) 20-50 years (2025-2055); and long term (Epoch 3) 50-100 years (2055-2105). Policy units (PUs) are defined by lengths of coastline with similar characteristics in terms of coastal processes and assets at risk from erosion and flooding and may comprise the following policy options:

- Hold the Line (HTL) involves maintaining the current position of the shoreline;
- Advance the Line (ATL) involves building new defence seaward of the original defences;
- Managed Realignment (MR) allows the shoreline to change naturally but the process is managed to direct it in certain areas; and
- No Active Intervention (NAI) where there is no planned investment in any coastal defences.

Where Public Rights of Way (PRoW) or the Wales Coast Path (WCP) are present within a policy unit classified as NAI or MR, there is a need to consider the future legislative and management requirements. This is particularly important if there is a coastal structure (for the purposes of this project, a "coastal structure" is one that prevents sea accessing land behind and is anthropogenically made) which supports or protects the access route and may face a management change over each SMP epoch.

The key objectives for this study were to determine:

- which coastal defences could be affected by the implementation of NAI or MR policies;
- which coastal footpaths (either PRoWs and/or sections of the WCP) may be affected by the implementation of NAI or MR policies, i.e. which footpaths may be affected if coastal defences are no longer maintained;
- the total length of the affected sections of footpath;
- the SMP policy unit and Local Authority area in which the affected footpaths are located; and
- when coastal footpaths may be affected i.e. in which SMP epoch.

The report is structured as follows:

Section 4: Methodology – describes the processing steps applied during the study, the associated rationale and limitations;

Section 5: Results – describes the results and data outputs of the study;

Section 6: Conclusions and Recommendations – summarises the findings and limitations of the study;

Appendix A: Contains the GIS processing steps required to complete the analysis (as described in Section 4); and

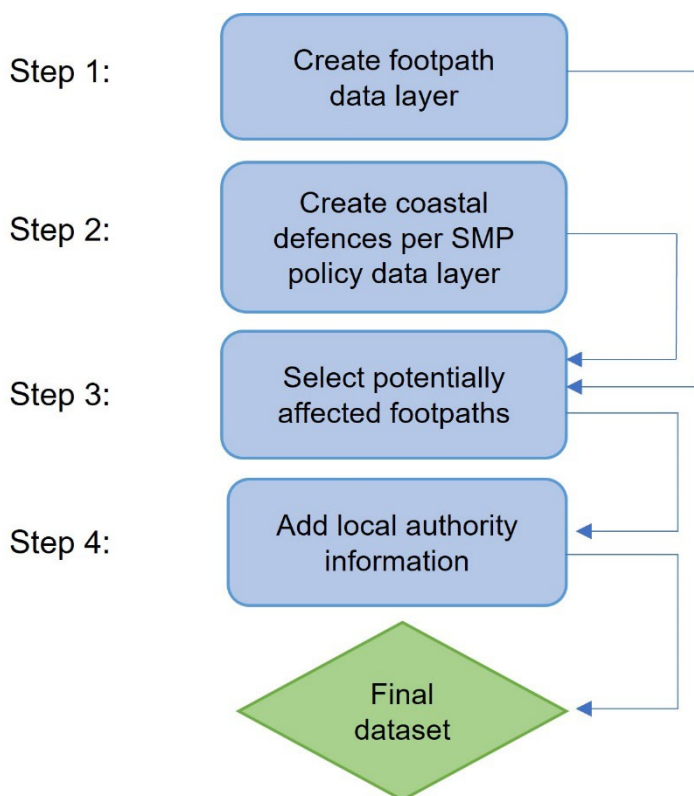
Appendix B: Contains tables and figures of affected footpaths per Local Authority.

## 4. Methodology

The methodology was designed to provide the ability to enable reporting on all locations where a PRow or the WCP (collectively described as footpaths for this project) could be affected by a change in a management policy of a supporting/protecting coastal defence. This could be, for example, where it is located on top of, or protected by, a coastal structure (defence) that may face a management change over each SMP epoch. Additionally, the outputs were designed to be interrogated by SMP Policy Unit, SMP epoch and Local Authority area, which can provide an indication of the total length of affected PRows and WCP for each of these categories.

The overall approach was designed to be objective and evidence-based, allowing reproducibility in the future and reducing complications introduced by subjectivity. The outputs of the methodology were heavily dependent upon the quality of the input data and as such the associated limitations (and the respective implications) are outlined below.

The main processing steps described below were carried out using ArcGIS, QGIS and Excel. These steps involved the preparation of the footpaths, policy units and coastal defences input data and subsequent analysis to produce the desired outputs. The main processing steps are illustrated in Figure 1.



**Figure 1:** Flow chart of simplified methodology.

## 4.1 Step 1 – Create merged footpath data layer

The analysis required a single footpath data layer comprising PRoW and WCP data. This merged data layer was created from footpath input data provided by NRW (Table 1).

**Table 1:** Primary footpath input data

Data	Source	Practical Significance
Public rights of way	NRW	Public right of way locations
Wales Coast Path	NRW	Wales Coast Path locations

The provided PRoW and WCP data contained line data of footpaths in Wales and had varying attribute information regarding the responsible Local Authority and unique data references.

To allow traceability back to the original footpath data, a unique identifier was created for each path feature, taking the form NAME<number>, where the number increments. WCP footpaths had the prefix COASTAL (e.g. COASTAL1, COASTAL2 etc.) and public rights of way had the prefix PROW (e.g. PROW34, PROW35 etc.). Once these unique identifiers had been created, unnecessary data columns were removed before the footpath data were merged into a single dataset.

## 4.2. Step 2 – Create defences per SMP data layer

The analysis required a data layer comprising coastal defences that are affected by a relevant policy change (i.e. NAI or MR) per policy unit for each separate epoch (20, 50 and 100 years). The creation of these three data layers involved several processing steps, due to the nature and quality of the input data (Table 2).

**Table 2:** Primary SMP and Defences input data

Data	Source	Practical Significance
SMP2 policies	Lle Portal	Policies and policy areas for epoch 20, 50 and 100 years
AMX coastal assets: NRW Catalogue (Assets from the Local Authority Catalogue for Protection Types: Fluvial/Tidal, Tidal or Coastal)	NRW	Coastal defence asset locations
AMX coastal assets: NDS (National Dataset of Local Authority Assets for Protection Types: Fluvial/Tidal, Tidal or Coastal)	NRW	Coastal defence asset locations
Spatial flood defences with standardised attributes	Lle Portal	Coastal defence asset locations

#### 4.2.1. Step 2.1 – SMP policy data

The supplied SMP data contains line data along the Welsh coastline. These line data are segmented into policy units which have one of three policy types: No Active Intervention (NAI), Managed Realignment (MR) or Hold The Line (HTL). The former two policies are of interest to this study as they denote a change in policy which can influence the coastline and adjacent coastal footpaths. The SMP policy data is available for three epochs: 0-20, 20-50 and 50-100 years. The NAI or MR policy data was extracted for each policy unit to create a separate “policy” data layer per epoch.

It should be noted that the SMP data are not always representative of the coastline of Wales; the SMP line may exist up to 100 m offset from the coastline or it may not include sections of coast (Figure 2). This creates a problem when using the SMP policy data to select defences overlapping with a relevant policy type (see Section 4.2.4 below). Additional processing steps were therefore required to ensure that all defence datasets could be intersected with the SMP policy data.



**Figure 2:** Inaccuracies of the shoreline management plan data (blue).

#### **4.2.2. Step 2.2 – Coastal defence data**

Coastal defence data were sourced from NRW (containing NRW and National Dataset (NDS) records) and the Lle Portal (see Table 2). The datasets were first checked for defence types and duplicates to ensure the most suitable defence types were used in the study. After inspecting the quality and spatial distribution of the defence datasets, it was decided that defence types 'embankments' and 'walls' should be used in the analysis, as they appeared to be the most comprehensive, relevant and spatially accurate.

Each defence had a unique ID (AMXID) which was used to check for duplicate features across the three defence data layers. The 'embankments' and 'walls' defence data from each of the three datasets (Table 2) were merged, duplicates removed, and remaining defences tagged with a unique ID.

It should be noted that the defence input data also contained duplicates within a dataset, but with different unique IDs. This scenario occurred in at least two situations where a defence appeared to have been digitised twice and given separate unique IDs for each digitised line, or that the lateral extent of a defence wasn't defined, and it extended over another defence resulting in duplication. The latter situation is shown in Figure 3, where only one wall is observed on aerial imagery, yet the defence dataset includes three records with different IDs at the same location. These possible duplicates were not removed from the data layer since they each had unique IDs and it could not be ascertained which record should be removed, or indeed, if they were all intentionally included in the original database.





**Figure 3:** Planar view showing defences where there appears to be significant overlap where in reality there is only one defence

The final defences data layer used in the analysis included 1,734 ‘embankments’ and ‘walls’ defence features, of which 645 were noted to be coastal (**Table 3**).

**Table 3:** Coastal Defences.

Source	Sub-type	Total Number	Number (coastal)
NRW Catalogue	Walls	87	87
NRW Catalogue	Embankments	58	58
NRW (NDS)	Walls	30	30
NRW (NDS)	Embankments	6	6
Lle Portal	Walls	601	176
Lle Portal	Embankments	952	288

### 4.2.3 Step 2.3 – Digitisation of missing coastal defence data

It was noted that some coastal defences might be missing due to inaccuracies in the supplied data or could not be shared due to third-party data permissions. Therefore, an additional mapping task was conducted to identify additional coastal defences which did not exist within the supplied data (**Table 2**).

As the analysis was focused on the inclusion of embankments and walls only, the feasibility of mapping them via the interpretation of aerial imagery and LiDAR data was assessed. It was concluded that embankment features could be readily identified from remotely-sensed data, such as aerial imagery, whereas walls are much smaller in size and more difficult to identify. Therefore, the mapping task focussed on embankments only.

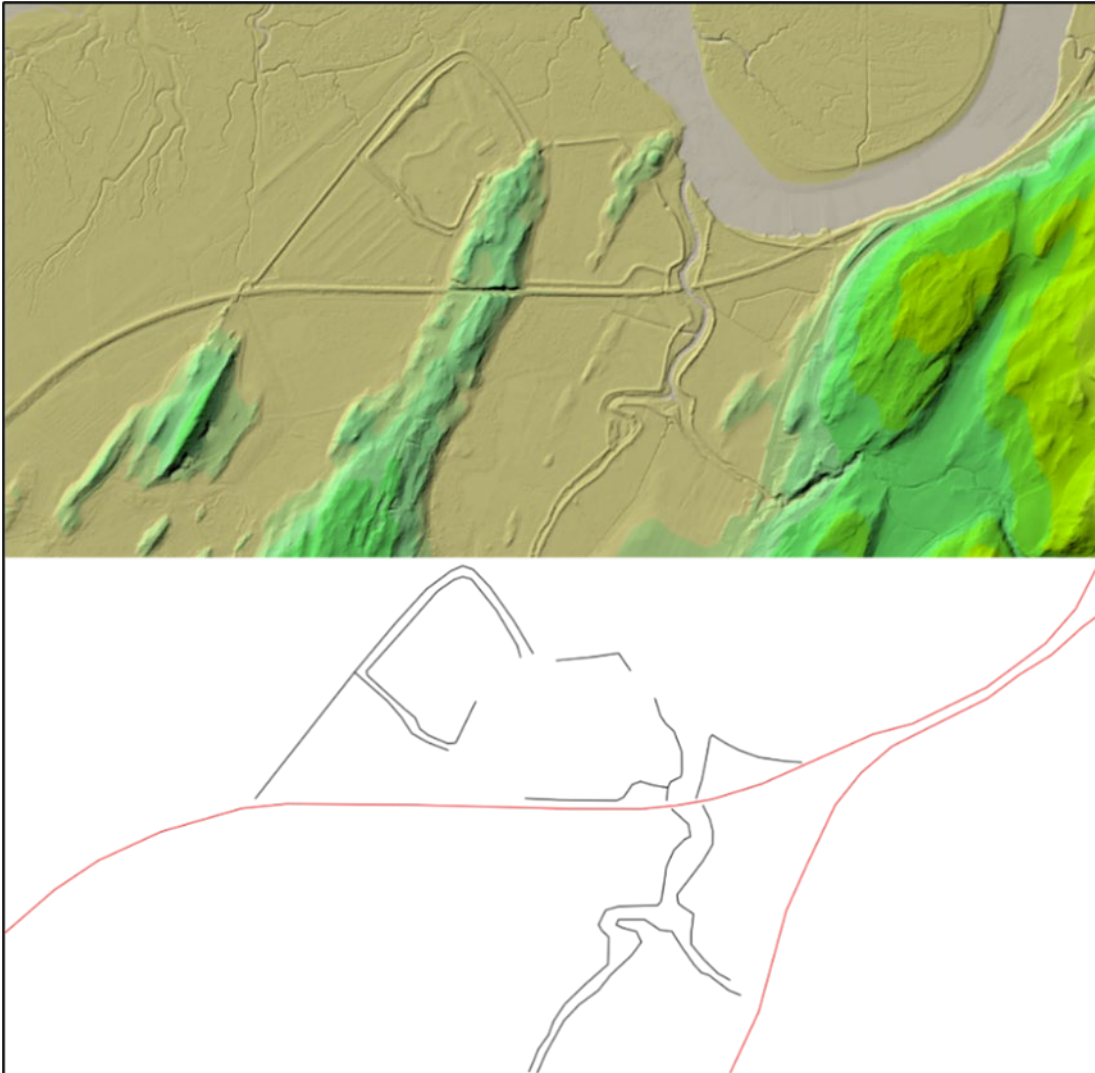
Embankments were identified from satellite imagery and hillshaded LiDAR data for the Welsh coastline at 1 m and 2 m horizontal resolution. Digital terrain model (DTM) LiDAR data were used as the primary dataset for feature identification.

The DTM is a model of the land elevation with vegetation removed, thus allowing the identification of terrain features, even if they are covered in vegetation which would mask their presence on satellite imagery. However, it is possible that not all coastal defences would be identified through such an approach, due to the spatial coverage of data of adequate horizontal resolution for feature identification and mapping.

Embankments were objectively identified (**Figure 4**) using the following criteria to allow reproducibility:

- must be made of earth or stone as observed from imagery – no solid materials like concrete;
- must appear curvilinear and not exactly following the curvature of a river or section of coastline;
- must have an axially-uniform appearance;
- can be bifurcated in layout;
- must consist of two slope faces either side of a crest and be symmetrical in short-axis profile;
- must have a face that is illuminated when hillshading is applied and an opposite shaded face;
- must have land on at least one side and not extend out beyond the coastline;
- must not have a major road or railway along its crest for its entire length;
- may exist as a path or dirt track along the top of a crest; and
- must not be an abandoned railway embankment, identified by a smooth planar appearance which diverges from the coastline or river at points along its length.

In total, 167 additional embankments were identified, resulting in a total merged coastal defence dataset of 1,901 features. These additional features had a unique ID generated with the prefix “ADD” followed by incremental numbers.



**Figure 4:** Embankments (black) and roads/railways (red) identified from LiDAR data based upon the mapping criteria.

#### **4.2.4. Step 2.4 – Selection of affected defences per SMP**

The next step in the process was to select only those coastal defences affected by a relevant SMP policy, i.e. defences which intersect policy units where there is either a NAI or MR policy (for each epoch).

It was first necessary to address the spatial offset that exists between the mapped location of the SMP policies and the coastal defence features (Figure 5). This was to allow the automation of the intersection process to select the affected defences. A buffer of 100 m was therefore applied either side of the SMP data layer created in Step 2.1 (Section 4.2.1). This buffer distance was used to ensure that it included the maximum spatial offset between the two data layers. A flat-ended buffer was applied, rather than a round-ended buffer, so that only defences seaward or landward would intersect and not lateral defences (Figure 6).



**Figure 5:** Spatial offsets between SMP policy and coastal defences data layers.

Defences which intersected with the buffered SMP policy data layer were selected and exported to a separate file, along with information about the intersecting buffered policy unit and policy type. These data were exported to Excel, summarised and re-joined to the selected defences data layer to produce a catalogue of defences affected by either an NAI or MR policy. This data layer was then used to identify footpaths which fall within a set distance from an affected defence for each epoch (see Section 4.3).





**Figure 6:** Comparison of a round-ended buffer and a flat-ended buffer.

### 4.3. Step 3 – Select affected footpaths

Following the creation of the merged ‘paths’ and ‘coastal defences per policy’ data layers, the next step was to identify the affected sections of footpath. This included capturing information about the SMP policy unit, specific SMP policy (MR or NAI) and affected coastal defence as an attribute to the output. It should be noted that the subsequent method was repeated for each epoch (20, 50 and 100 years).

As described above, the implementation of MR or NAI policies would have the potential to affect footpaths both at the coast and inland of the stretch of affected coastal defence. A standardised set of rules were therefore required to identify footpaths that could be affected by these policies (i.e. the zone of potential influence). It was also important that the application of the rules could be automated and repeatable.

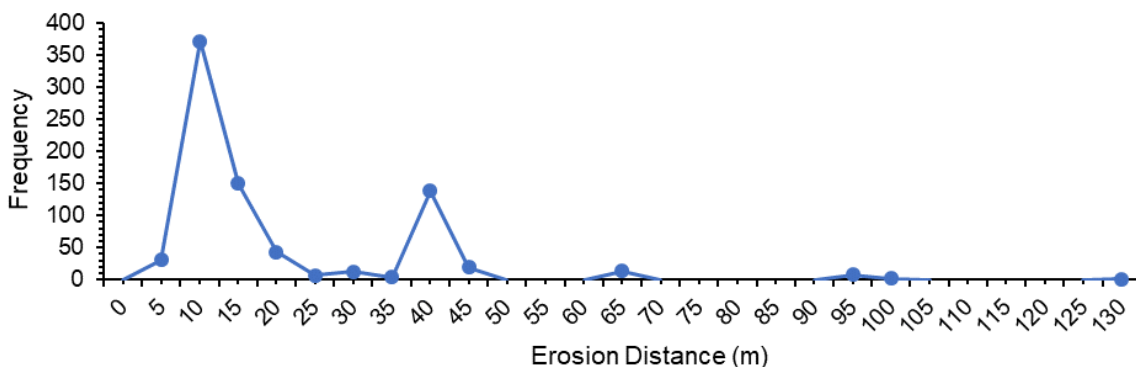
The flood extent data (contained in the Flood Map: Flood Zone 2) was initially considered as a data layer for the identification of potentially affected footpaths. This was on the basis that where a footpath was dependent on the maintenance of a coastal defence and overlapped with the flood extent data layer, it was assumed to be affected by a NAI or MR policy. However, visual inspection of the data layers showed that in many locations along the Welsh coast, there are defences without any adjacent flood zone. A change in the maintenance of a defence would, however, have the potential to change the physical processes at the coast and ultimately affect footpaths, therefore, paths behind these

defences have also been included in the analysis. Use of the flood map data would not have identified footpaths in these locations.

Therefore, a method was devised which allowed a buffer or 'affected zone' around the selected defences (with an MR or NAI policy) to be applied. The extent of this zone was based on the maximum long-term coastal erosion rate for the Welsh coastline obtained from the SMP coastal erosion dataset (**Table 4**). The maximum coastal erosion distance was found to be 127 m (**Figure 7**), therefore, a flat-ended buffer was produced to determine areas 127 m to the front and rear of a selected defence.

**Table 4:** Primary input data to inform affected zone.

Data	Source	Practical Significance
SMP coastal erosion rates	Lle Portal	Coastal erosion rate data around the Welsh coastline for various timescales
Risk of Flooding from Rivers and Sea (RoFRS)	Lle Portal	Coverage of areas at risk of flooding around the Welsh coastline



**Figure 7:** Chart showing reported long-term coastal erosion distances.

This zone was then used to identify footpaths which may be affected by the lack of maintenance of a defence (or the implementation of a MR site). All sections of footpath which intersected with the 'affected zone' were saved to a new data layer. **Figure 8** shows an example of a section of footpath (white dash) that intersects the 'affected zone' buffer of 127 m (red hash). Following this step, the length of all intersected footpaths was calculated.



**Figure 8:** Example of selected footpath segment.

In some locations, it is possible that the 'affected zone' of coastal defences may be greater than 127 m. To address this issue, the Risk of Flooding from Rivers and Sea (RoFRS) data layer was used to help identify additional affected footpaths not selected by the previous steps.

This was a qualitative assessment, as the flood extents varied in size and complexity, and involved the visual inspection of coastal defences and footpath data layers. Where the RoFRS data extended beyond the 'affected zone' a note of these locations was made against the relevant coastal defence in the final spreadsheet produced at Step 4 (Section 4.4). This task represents an area of future work.

### 4.3.1 Long defence data and effect on selection of footpaths

Where a significantly long coastal defence intersects more than one SMP policy, the 'affected zone' of the defence extended beyond the NAI or MR policy units of interest to this study. Therefore, a manual step in the process was required to trim the selected footpaths to the policy units of interest.

Figure 9 shows an example of policy units (blue polygons) which result in the selection of a defence (red line) which has an 'affected zone' (red hash). Without manual treatment, the path along the entire length of the defence was selected. This path was therefore manually trimmed to the relevant SMP policies only (white dash).

These data were then manually cleaned and duplicate records and unnecessary fields were removed, before exporting to the final affected footpath data layer.





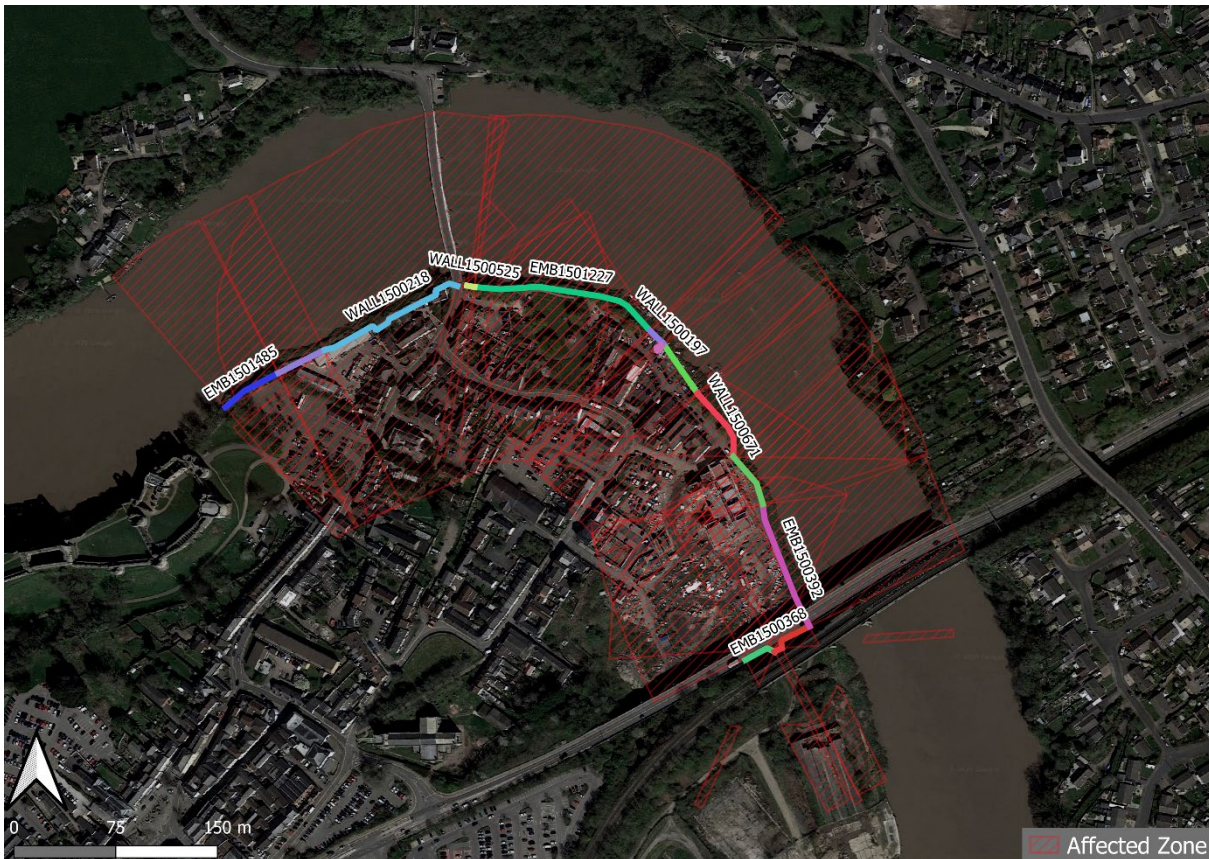
**Figure 9:** Example showing policy units, defence, affected zone and intersected paths.

### 4.3.2. Short defence data and effect on selection of foothpaths

Where there are many short defences within a small area, the ‘affected zone’ of each defence overlapped other zones, each cutting intersecting paths into many short, duplicated segments (generally less than 5 m). This could result in erroneous sections of path being selected or segments that are missed entirely (Figure 10). Therefore, another manual step in the process was required to delete these very short overlapping segments.

The instances in which this scenario occurred were limited in number, but this highlights some of the issue with using the defence dataset at the Welsh scale.





**Figure 10:** Affected zones of up to 13 defences within a small area.

## 4.4. Step 4 – Add Local Authority information

The final step was to add information about the Local Authority where the affected footpaths were located. The Local Authority boundary data layer (Table 5) was obtained from the Lle Portal (now 'DataMapWales') and was spatially joined to the final affected footpaths data layer.

**Table 5:** Primary Local Authority input data.

Data	Source	Practical Significance
Local Authority areas	Lle Portal	Local Authority areas

The final affected footpaths data layer with all required attributes (defence ID, SMP policy, policy unit, footpath ID, length of footpath and Local Authority) was exported to Excel to form the final spreadsheet deliverable.

## 5. Results

This study resulted in the following data deliverables:

- “EpochOutputs.xls” spreadsheet – contains a list of all affected footpaths, listed by unique path ID, as well as the associated coastal defence ID and each intersecting policy unit. Where more than one policy unit intersects the affected zone of a defence, these are noted in separate columns. The Local Authority in which the section of path is located and the length (in metres) of path is also included;
- “SelectedDefences.shp”– shapefile contains defences sourced from NRW and the Lle Portal in addition to those embankments mapped in this study;
- “SelectedDefences\_AffectedZone.shp”– shapefile of 127 m buffer representing the affected zone of defences for each epoch; and
- “AffectedPaths.shp”– shapefile of affected footpaths intersected by the ‘affected zone’ for each epoch.

A summary of the affected lengths of PRow and WCP due to the implementation of either a NAI or MR SMP policy is provided in Table 6 and tables and figures showing the affected footpaths for each Local Authority are provided in Appendix B.

A total of 24.5 km, 76.8 km and 92.1 km of PRow and 17.9 km, 45.5 km and 57.2 km of WCP could potentially be affected in epochs 1, 2 and 3 respectively. However, it should be noted that these numbers represent high level estimates of footpaths that could be affected by the implementation of these policies over these timescales. In practice, there are several limitations associated with the input data, as well as a series of high-level assumptions that are factored into the methodology, which influence the degree of accuracy that can be achieved within the results. A number of site-specific parameters would also influence the extent to which individual footpaths are affected by the implementation of both NAI and MR policies.

**Table 6:** Overview of affected path lengths (metres) per Local Authority area and epoch.

Local Authority	Epoch 1 (0-20): WCP	Epoch 1 (0-20): PRoW	Epoch 2 (20-50): WCP	Epoch 2 (20-50): PRoW	Epoch 3 (50-100): WCP	Epoch 3 (50-100): PRoW
Bridgend	425	n/a	932	n/a	932	n/a
Cardiff	n/a	n/a	n/a	n/a	n/a	n/a
Carmarthenshire	831	2,795	1,030	3,223	1,283	3,296
Ceredigion	1,767	2,279	1,767	2,474	3,930	16,379
Conwy	2,015	2,045	2,015	15,337	5,356	14,552
Denbighshire	543	159	543	5,996	543	5,996
Flintshire	134	174	11,895	10,913	11,895	10,913
Gwynedd	4,964	11,325	19,688	32,775	19,940	32,894
Isle of Anglesey	3,277	1,696	3,217	1,696	6,284	1,878
Monmouthshire	769	n/a	769	n/a	769	n/a
Neath Port Talbot	n/a	n/a	n/a	n/a	n/a	n/a
Newport	n/a	44	n/a	44	n/a	44
Pembrokeshire	2,854	3,334	3,323	3,799	5,083	5,504
Powys	n/a	460	n/a	460	n/a	460
Swansea	251	n/a	251	n/a	251	n/a
Vale of Glamorgan	62	138	62	124	914	171
<b>Total (m)</b>	<b>17,891</b>	<b>24,449</b>	<b>45,494</b>	<b>76,840</b>	<b>57,180</b>	<b>92,087</b>

## 6. Conclusions and Recommendations

In conclusion, the project was successfully able to determine the scale and geographic spread of footpaths that could potentially be affected by NAI or MR policies over the three SMP epochs. A total of 24.5 km, 76.8 km and 92.1 km of PRow could potentially be affected, and 17.9 km, 45.5 km and 57.2 km of WCP could potentially be affected in epochs 1, 2 and 3 respectively. It should be noted that these numbers represent high level estimates of footpaths that could be affected by the implementation of these policies over these timescales

In practice, there are several limitations associated with the input data, as well as a series of high-level assumptions that are factored into the methodology, which influence the degree of accuracy that can be achieved within the results, including:

- The quality, accuracy and completeness of input datasets (i.e. SMPs, coastal defences and footpaths);
- Only defence types 'embankments' and 'walls' were used in the analysis as they appeared to be the most comprehensive, relevant and spatially accurate;
- Assumptions were made about the spatial extent of the 'affected zone' or 'potential zone of influence' of coastal defences;
- Difficulties were encountered when attempting to associate the flood zone data to a specific coastal defence for the selection of affected footpaths; and
- No consideration was given to site-specific parameters that may influence the extent to which footpaths are affected by the implementation of both NAI and MR policies.

Several recommendations for future work have come out of this study, in particular:

- The SMP data could be improved by making it more representative of the coastline of Wales; currently the SMP line may exist up to 100 m offset from the coastline or it may not include sections of coast;
- The defence asset data could be improved by the inclusion of all third-party assets, more accurate mapping (i.e. at a higher resolution than the current asset dataset) and removal of duplicates;
- The mapping of the WCP data could be improved by more accurate mapping (i.e. at a higher resolution than the current WCP dataset); and
- Quantitative use of the flood zone map data and/or the RoFRS data for selection of affected footpaths would improve the assessment of footpaths affected by NAI or MR policies.

## 7. Acronyms

ADD	Additional
AMX	Asset Management eXpert
AMXID	Asset Management eXpert Identifier
ArcGIS	Esri Geographic Information System
ATL	Advance the Line
COASTAL	Coastal Footpath
CSV	Comma-Separated Values
DefenceID	Defence Identifier
DTM	Digital Terrain Model
Excel	Microsoft Excel
FID	Field Identifier
GIS	Geographic Information System
HTL	Hold the Line
ID	Identifier
LiDAR	Light Detection and Ranging
MR	Managed Realignment
NAI	No Active Intervention
NAME	Unique Identifier
NDS	National Dataset of Local Authority Assets for Protection
NRW	Natural Resources Wales
PRoW	Public Rights of Way
PU	Policy Units
QGIS	Quantum Geographic Information System
RoFRS	Risk of Flooding from Rivers and Sea
SMP	Shoreline Management Plans
SMP2	Shoreline Management Plans - 2nd Round
WCP	Wales Coast Path

# Appendix A – GIS Processing Steps

The GIS processing steps to produce the outputs described in Section 4 of this report are set out in detail below.

## A.1. Step 1 – Create merged path datalayer

1. Add a new text field to the WCP data called 'Path" and fill with the text "COASTAL".
2. Add a new long integer field called "ID" and fill with incremental numbers.
3. Add a new text field called "UniqueID" and concatenate the field "Path" with the field "ID" to create the unique ID.
4. Repeat these steps for PRow data but change the text in Path to "PROW".
5. Merge public rights of way and coastal path data to produce a merged path dataset.

## A.2. Step 2.1 – Process SMP data

6. Select features which have the attributes "NAI" or "MR" for the relevant policy field (e.g. Policy\_20, Policy\_50 or Policy\_100).
7. Export the selected features to separate files.
8. Remove unnecessary fields.
9. Repeat for each epoch.

## A.3. Step 2.2 – Process defence data

10. Select features which have the attributes "Wall" and "Embankment" from the NRW, NDS and Lle Portal sourced data.
11. Export the selected features to separate files.
12. Remove all fields other than "AMXID" or "subtype"
13. Rename the field "AMXID" to "DefenceID".
14. Merge the NRW and Lle Portal defence datasets.
15. Create a field "FID" and calculate incremental numbers in this field.
16. Export the attribute table as a CSV.
17. Open the CSV in Excel and add a new column called "Keep".
18. Select all the data and delete duplicates from the column "DefenceID".
19. Add the value "1" to all of the remaining rows in the column "Keep".



20. Save the output and re-join these data back onto the merged dataset using the field “FID”.
21. Delete all features which do not have the value “1” in the field “Keep”.

## **A.4. Step 2.3 – Digitisation of missing coastal defence data**

22. Add a text field “Defence” in the attribute table of the mapped features and fill with the value “ADD”, representing additional.
23. Add an integer field “ID” and fill with incremental numbers.
24. Create a text field “DefenceID” and concatenate the field “Defence” with the field “ID” to create the unique ID.
25. Merge these additional features with the previous defence dataset to produce a merged defences dataset.

## **A.5. Step 2.4 – Selection of affected defences per SMP**

26. Produce a 100 m flat-ended buffer around each policy unit. This produces the Buffered Policy output.
27. Select features from the merged coastal defences data which intersect the buffered policies using ‘Select By Location’ and save these as “SelectedDefences”. This produces the Selected Defences output.
28. Spatially join the selected defences and the policy change buffer for each epoch to add the policy unit attributes to the selected coastal defences and save as “SelectedDefencesByPolicy”.
29. Export the attribute table of “SelectedDefencesByPolicy”.
30. Import the exported attribute table into Excel and pivot it by DefenceID to find each policy unit which the defence intersects (set the Defence ID as rows and the Policy Unit as Columns for the pivot).
31. Clean and reformat the data to create a spreadsheet comprising: DefenceID, PolicyUnit1, PolicyUnit2 and PolicyUnit3. These latter fields detail the policy units that each defence structure is affected by.
32. Export this cleaned data as a CSV file
33. Join the exported CSV file to “SelectedDefences” using the DefenceID field and export the data so a separate file called “SelectedDefences\_Joined”. This produces the Defences and Policy Units output.

## A.6. Step 3 – Select affected footpaths

34. Create a flat-ended 127 m buffer around “SelectedDefences\_Joined”. This produces the Defence Affected Zone output.
35. Features from the merged paths dataset were intersected by the affected zone of each defence using the Intersect tool. These features were saved as “IntersectedPaths” and form the output Affected Paths.
36. Conduct any necessary manual editing of paths which are highlighted due to a very long defence which only clips a policy change buffer
37. Where a path spans two policy units due to a large digitised defence, copy the intersected footpath feature and paste it into the same layer; trim each feature back in opposite directions to the desired size, then edit the attributes to append the correct policy unit.
38. Add a new double field “Length\_m” and calculate the length of each feature using the Field Calculator.

## A.7. Step 4 – Add Local Authority information

39. Perform a spatial join between the edited affected footpaths datalayer and the Local Authority boundaries polygon datalayer and save the output as IntersectedPathsEdited. This forms the output Affected Paths By Policy.
40. Remove unnecessary fields and export the data as a CSV file.
41. Import the CSV data into Excel, concatenate policy unit, defence, Local Authority, path ID and path length and pivot the result.
42. Use text to columns to break apart the path IDs into their components.
43. Remove erroneous lengths generally less than 5 m in length.



# Appendix B – Tables and Figures

## B.1. Overview of NAI and MR SMP Policies

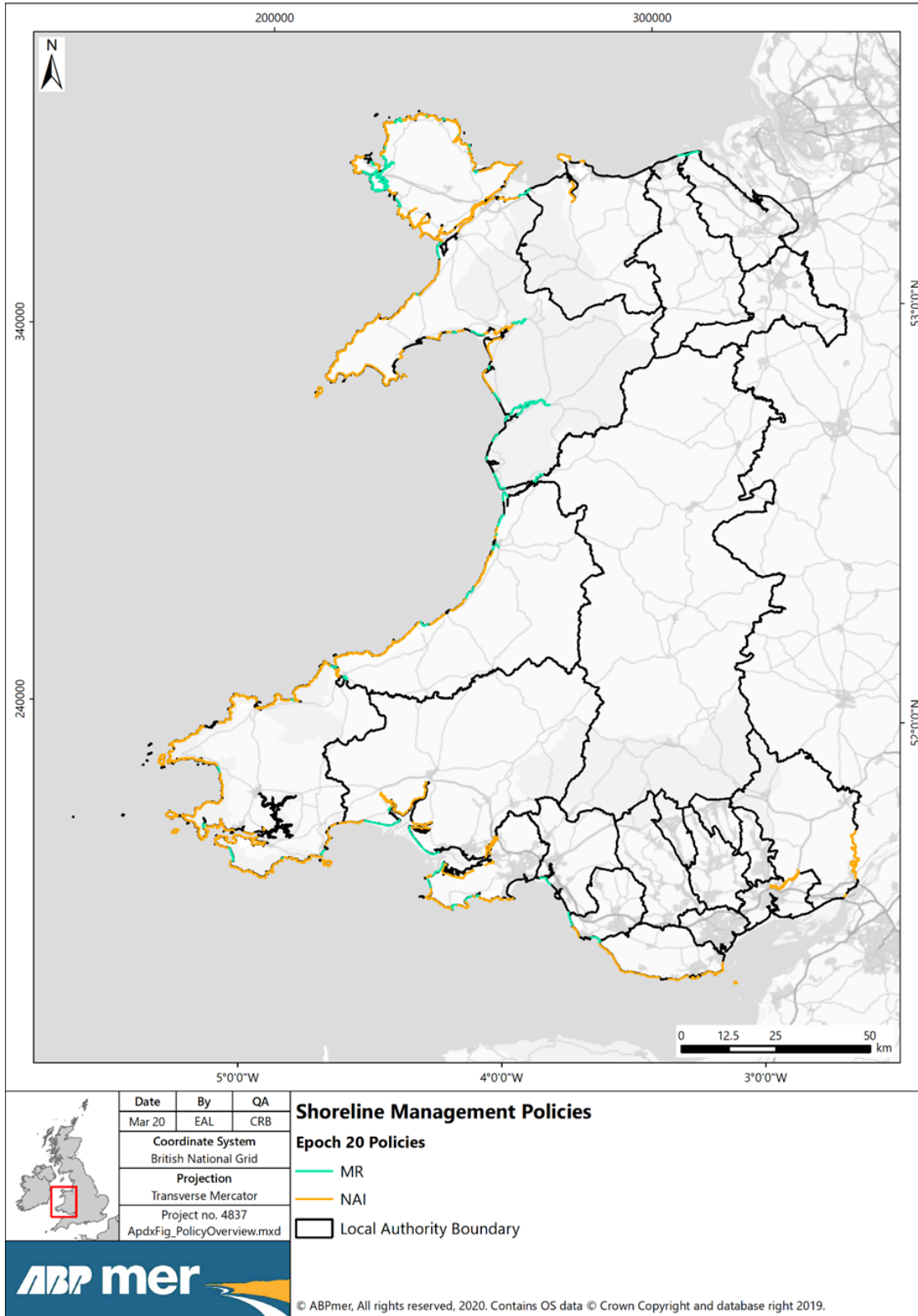


Figure B.1. 1: Shoreline Management Policies of Wales; Epoch 20 policies.

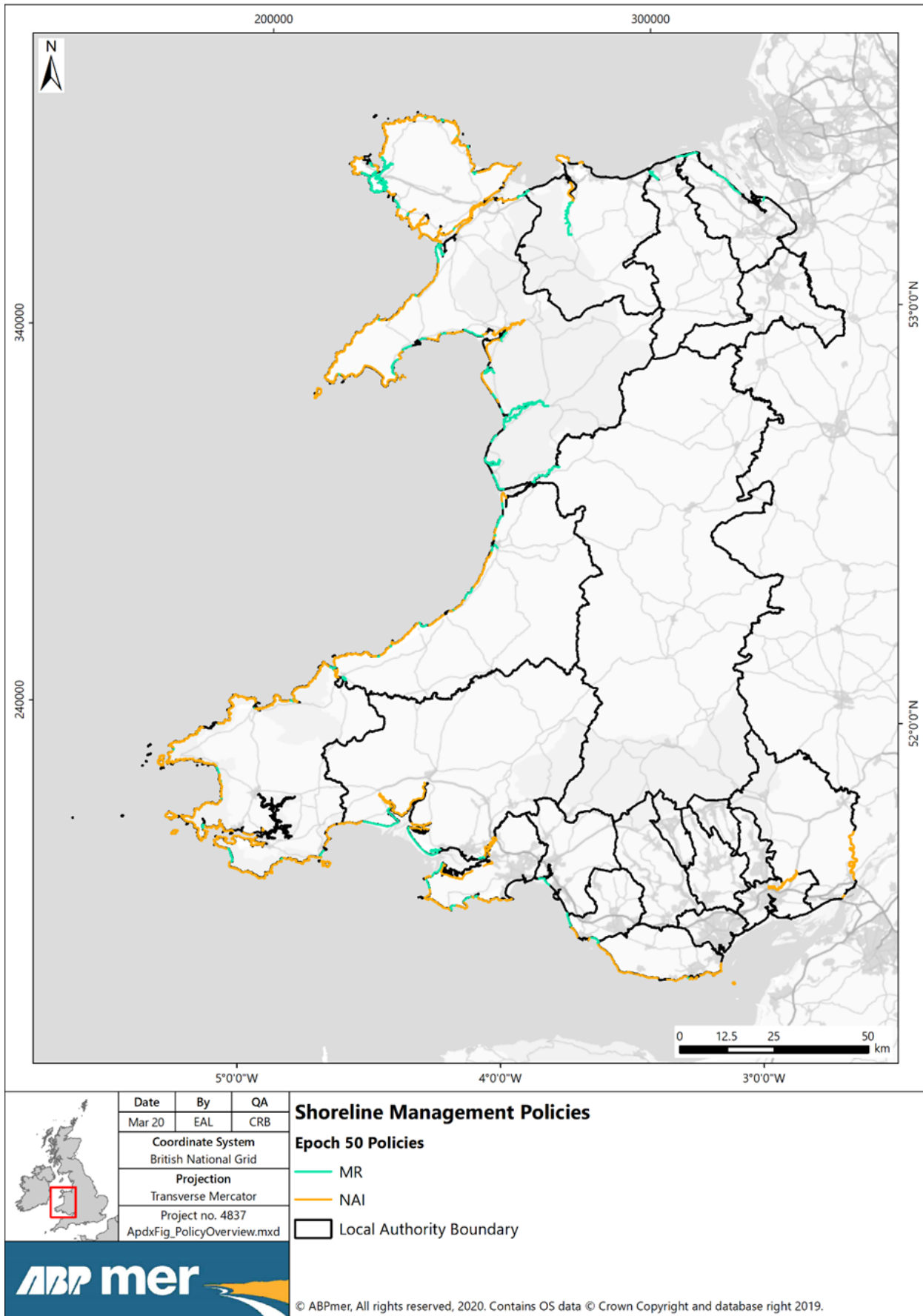


Figure B.1. 2: Shoreline Management Policies of Wales; Epoch 50 policies.

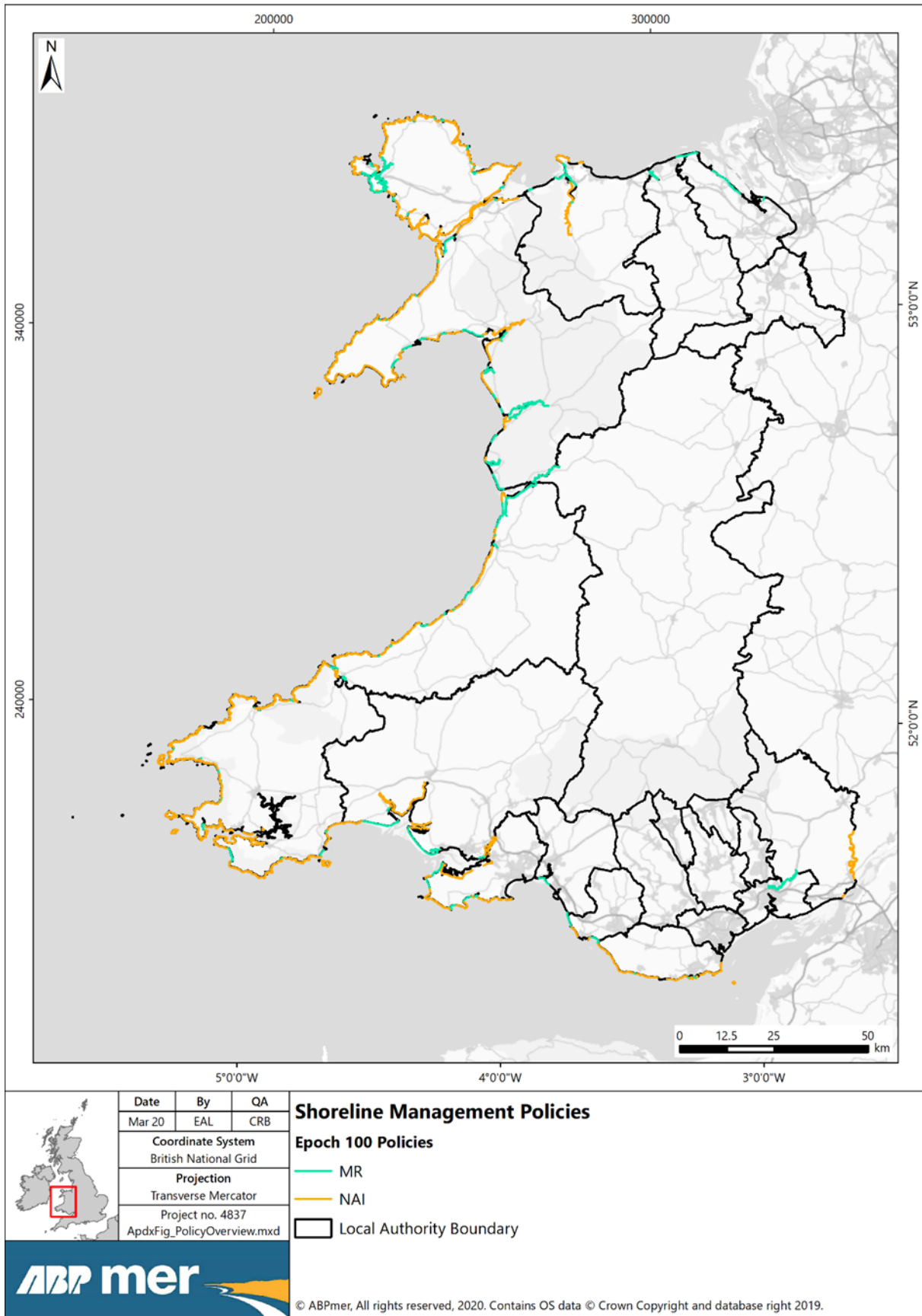


Figure B.1. 3: Shoreline Management Policies of Wales; Epoch 100 policies.

## B.2. Location of affected footpaths per Local Authority

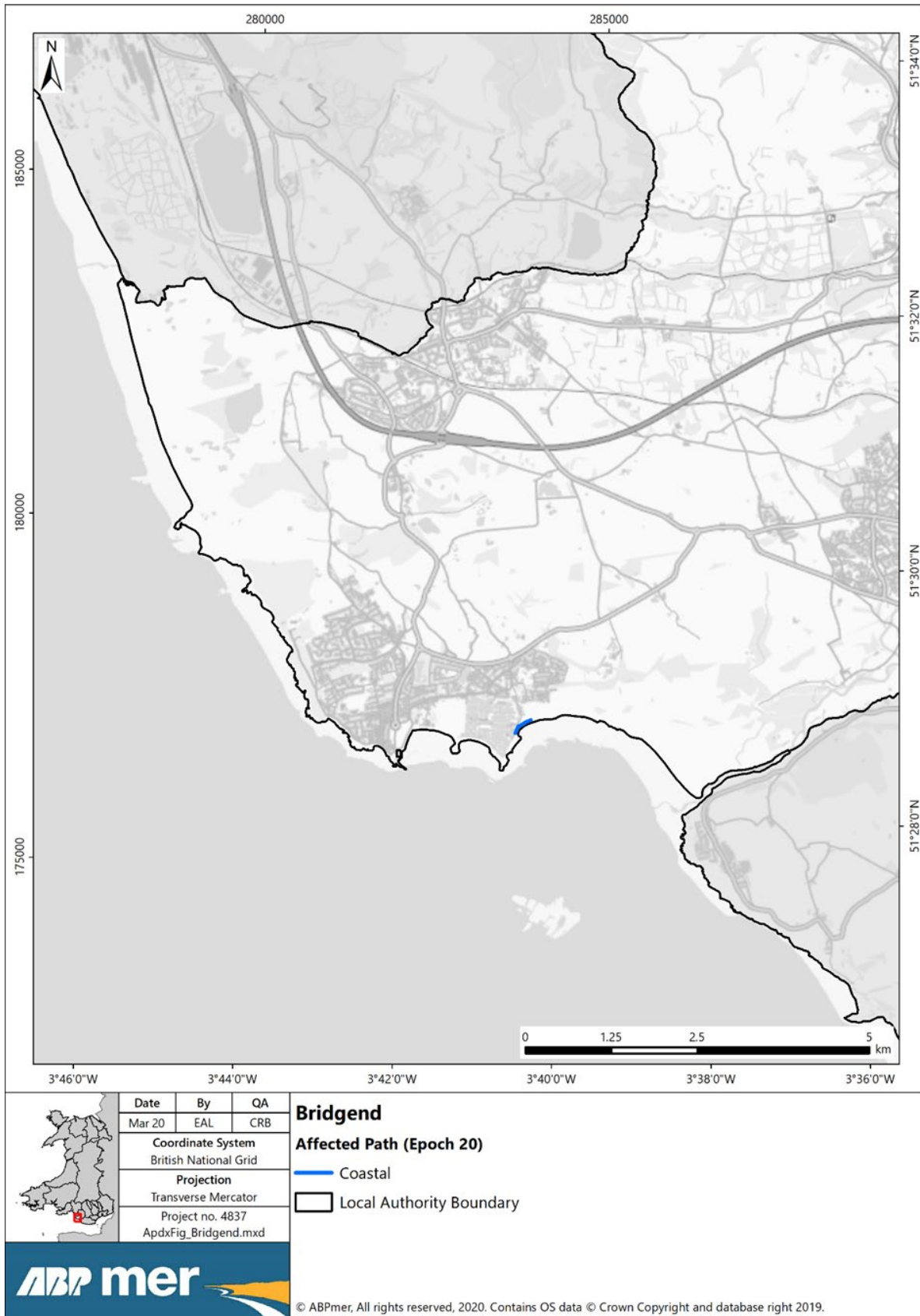


Figure B.2. 1: Affected footpaths, Epoch 20, Bridgend.



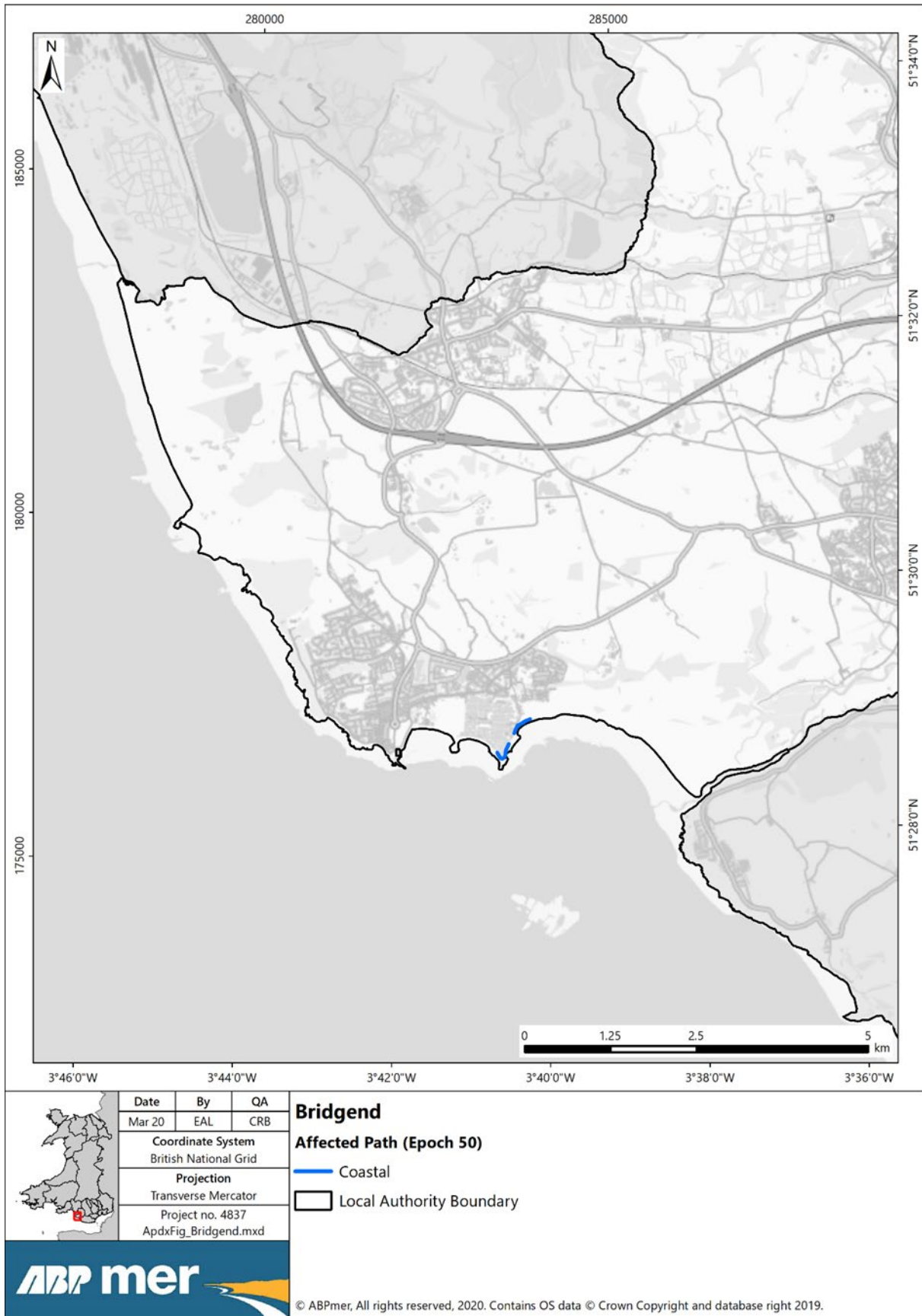
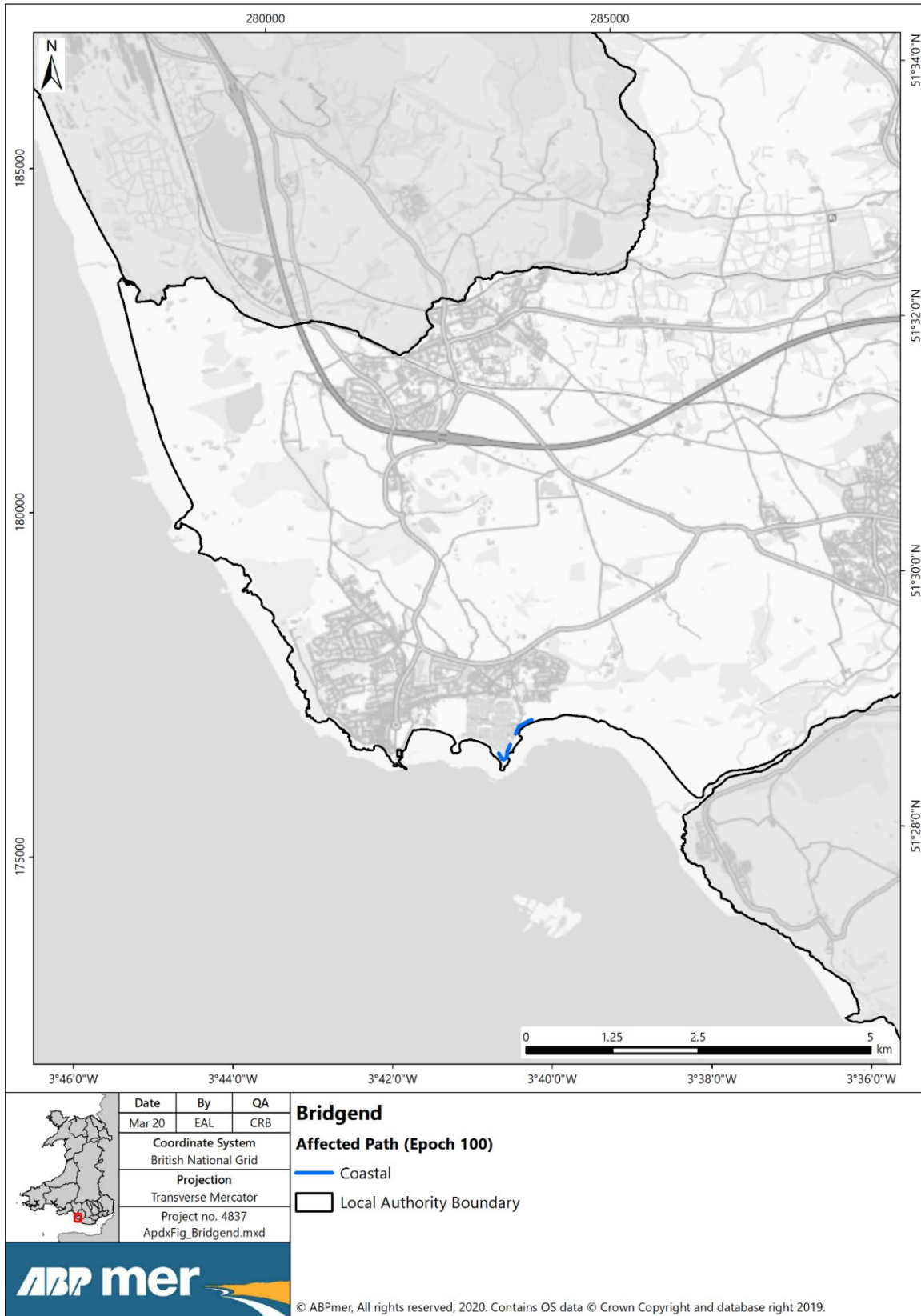
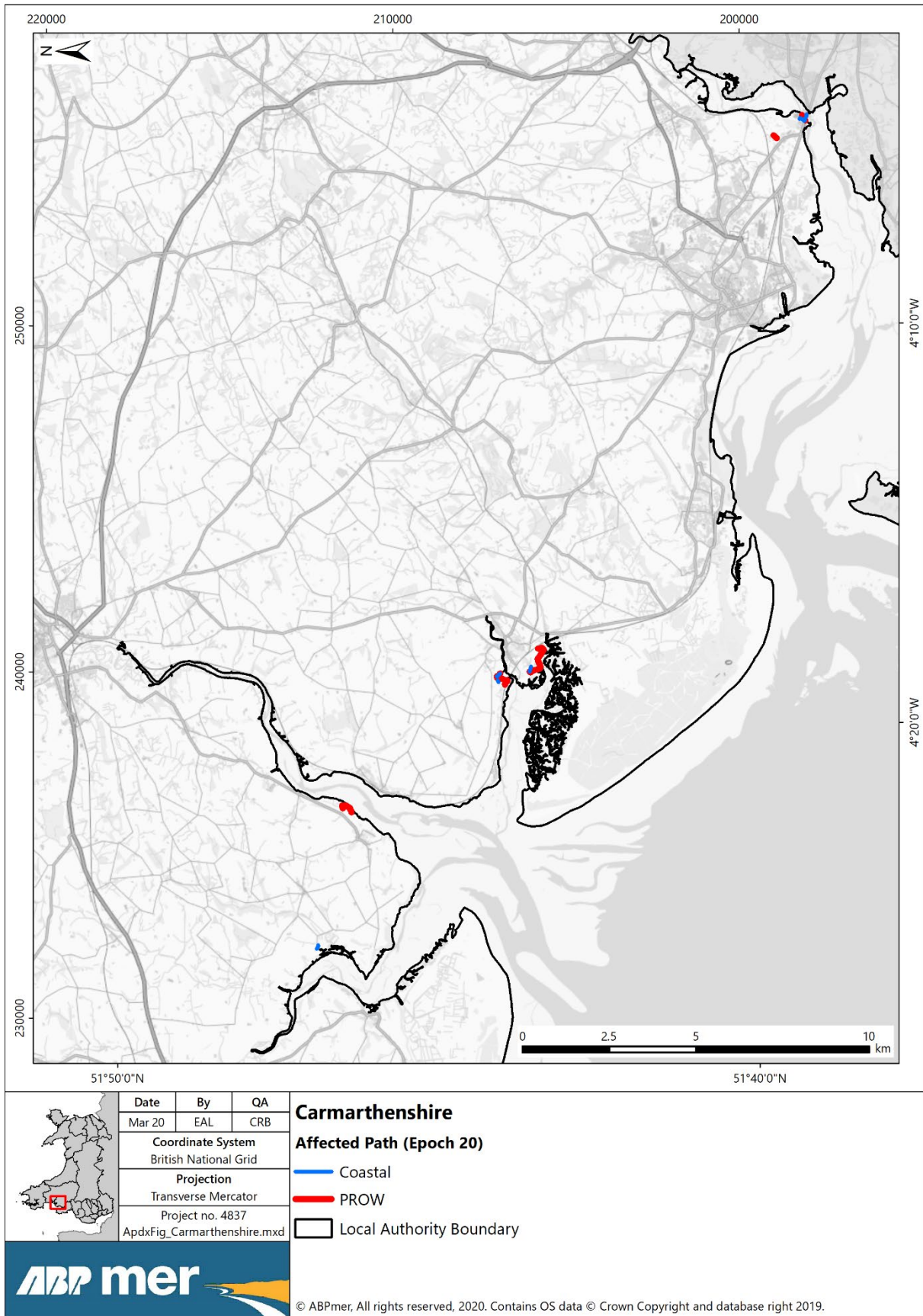


Figure B.2. 2: Affected footpaths, Epoch 50, Bridgend.

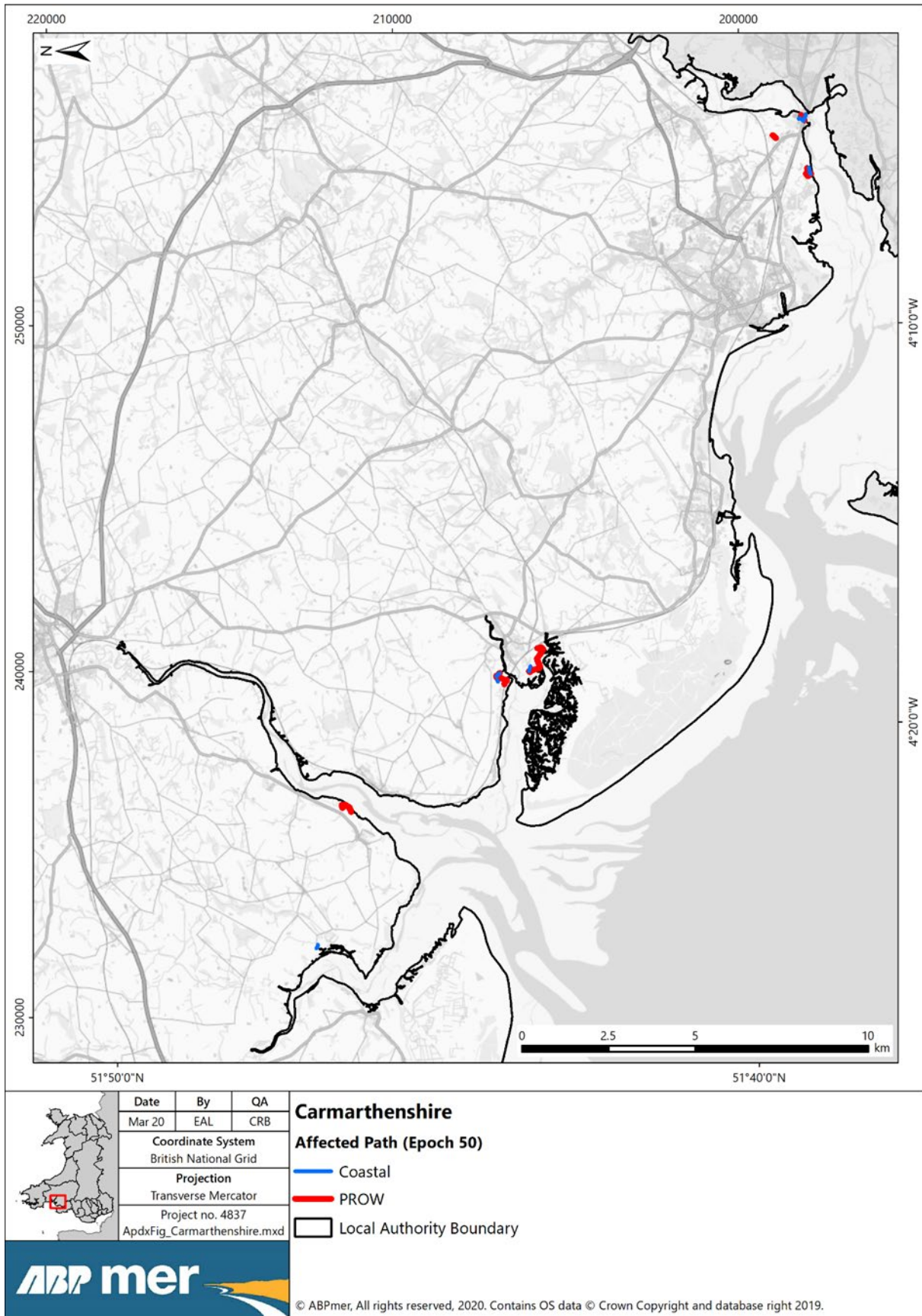


**Figure B.2. 3:** Affected footpaths, Epoch 100, Bridgend.



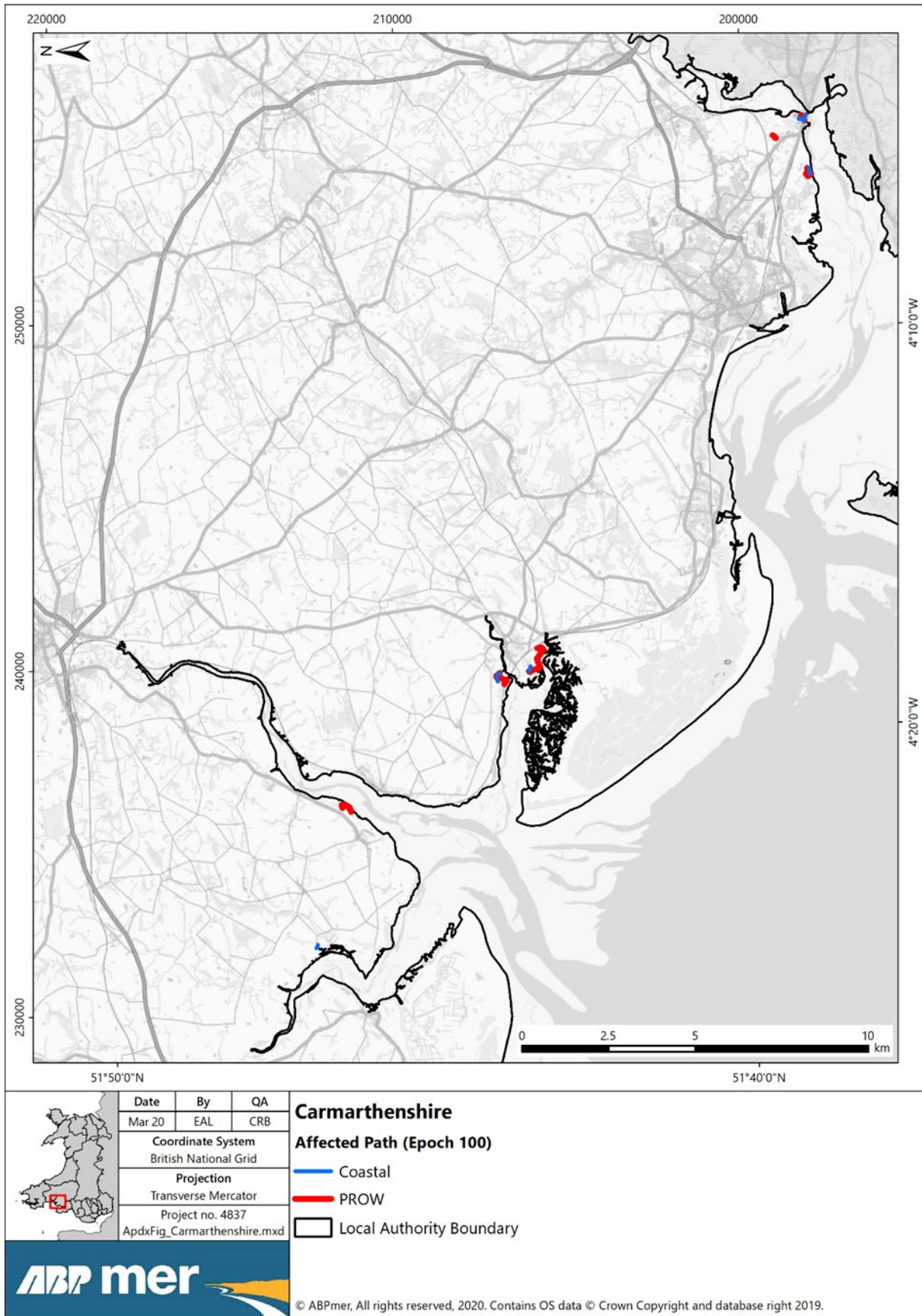
**Figure B.2. 4:** Affected footpaths, Epoch 20, Carmarthenshire.





**Figure B.2. 5:** Affected footpaths, Epoch 50, Carmarthenshire.





**Figure B.2. 6:** Affected footpaths, Epoch 100, Carmarthenshire.

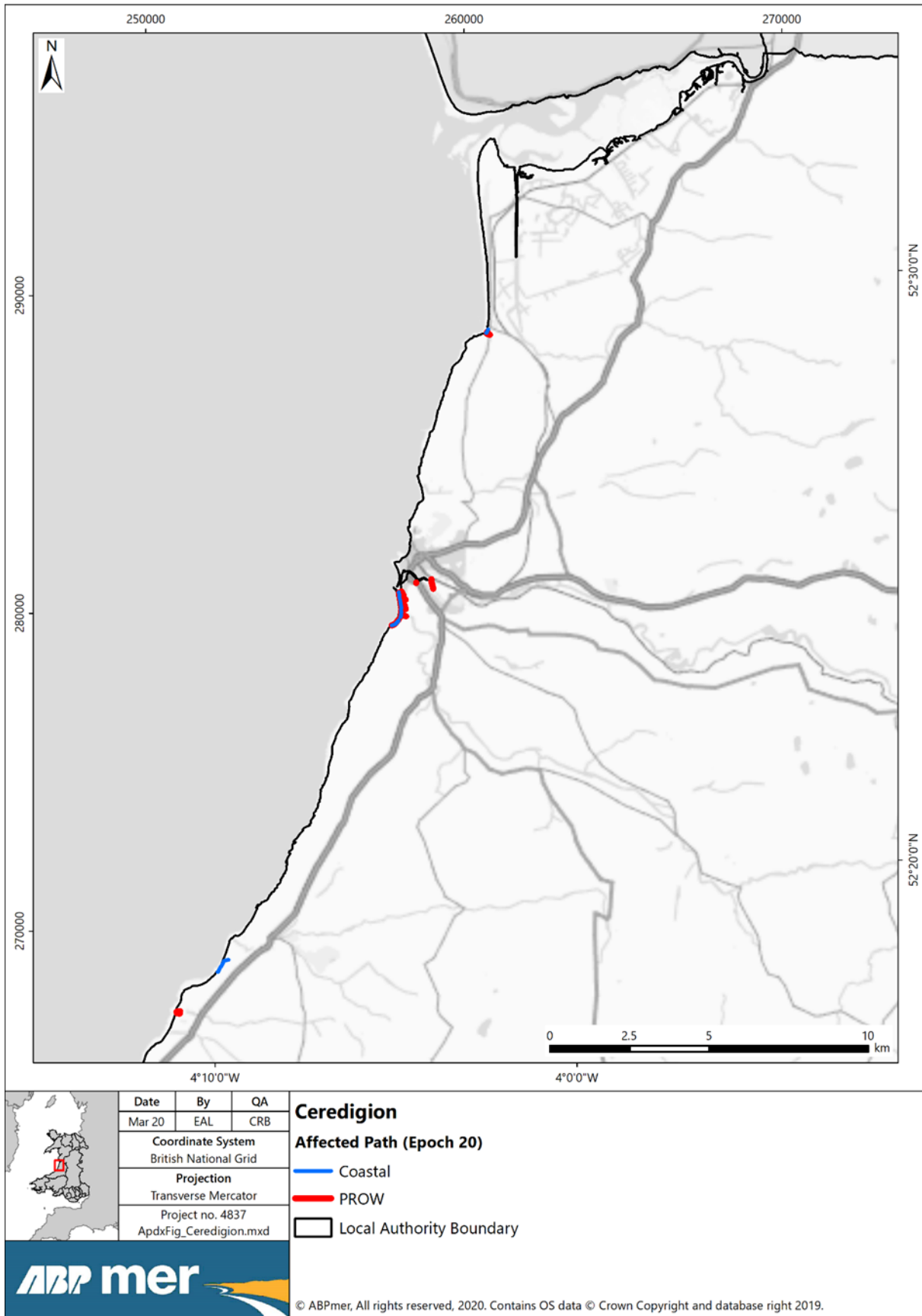


Figure B.2. 7: Affected footpaths, Epoch 20, Ceredigion.

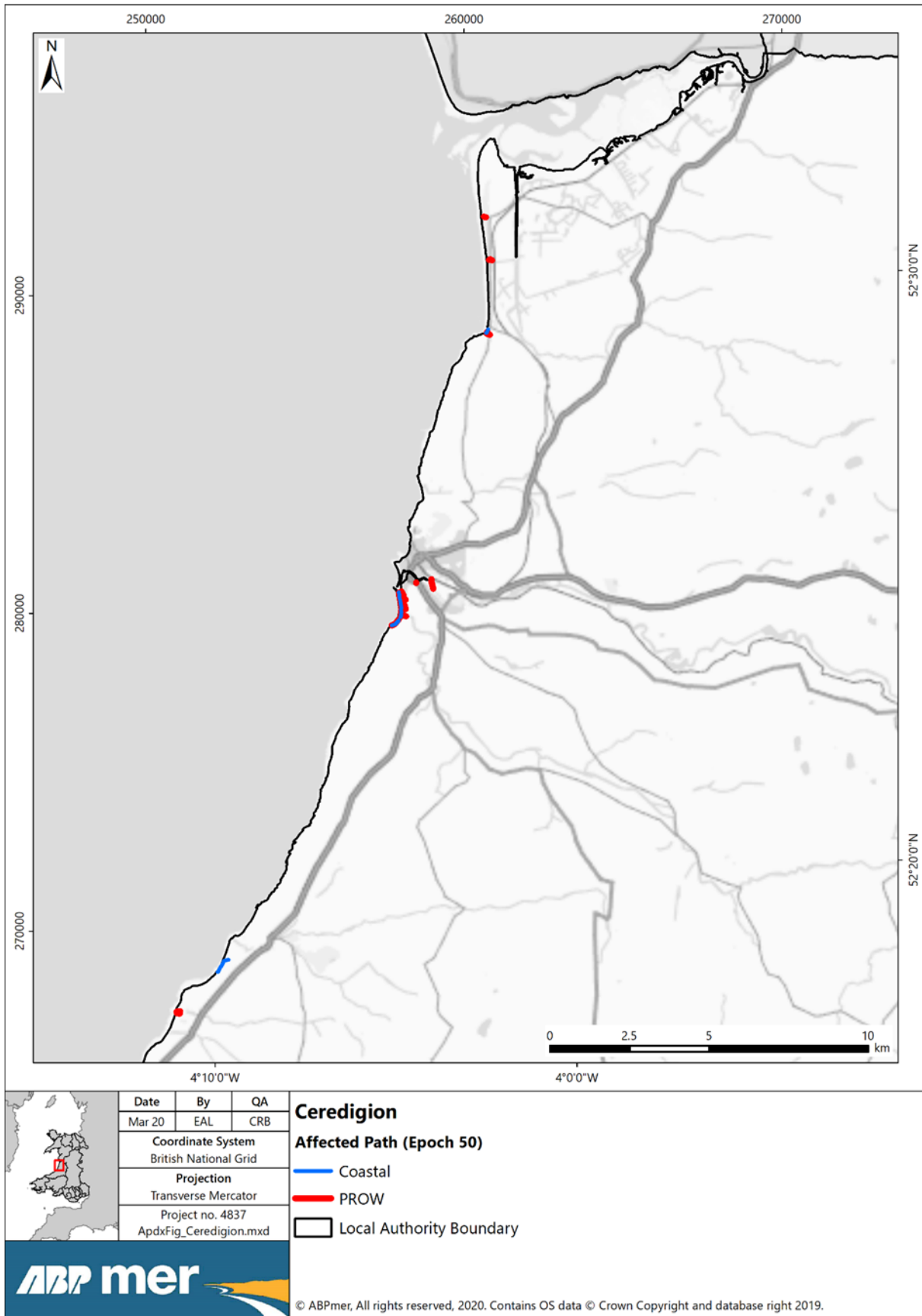


Figure B.2. 8: Affected footpaths, Epoch 50, Ceredigion.

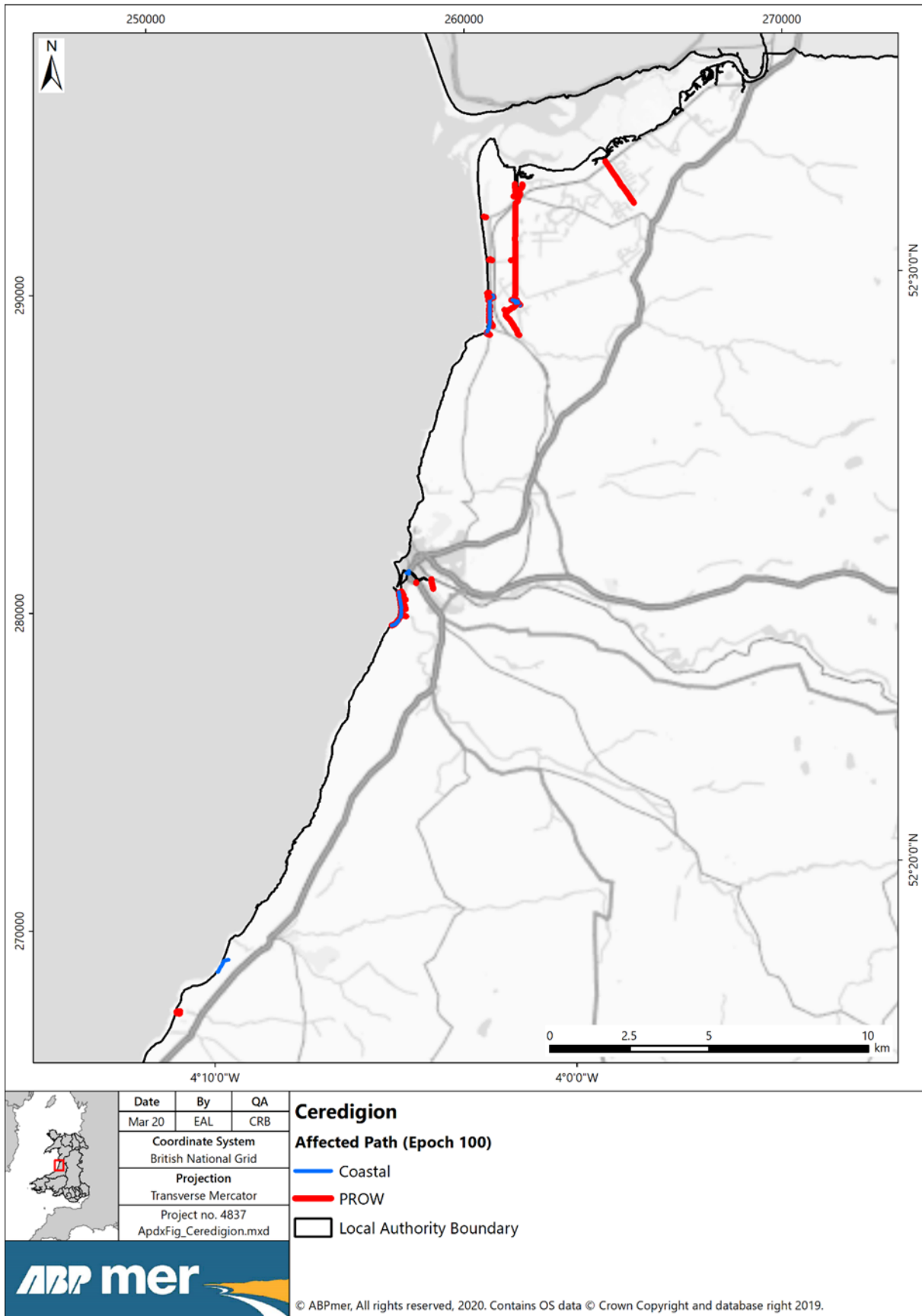


Figure B.2. 9: Affected footpaths, Epoch 100, Ceredigion.

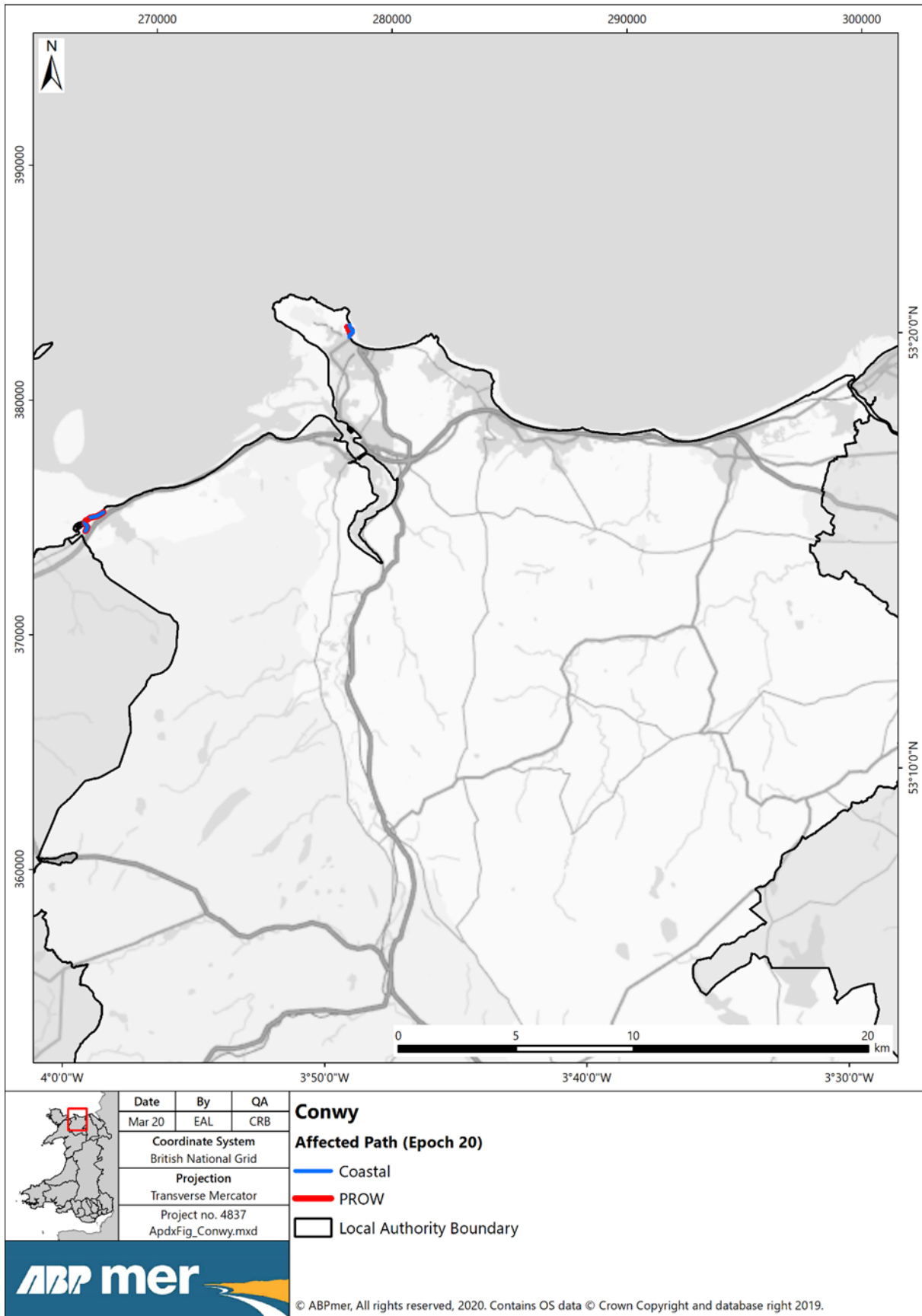


Figure B.2. 10: Affected footpaths, Epoch 20, Conwy.

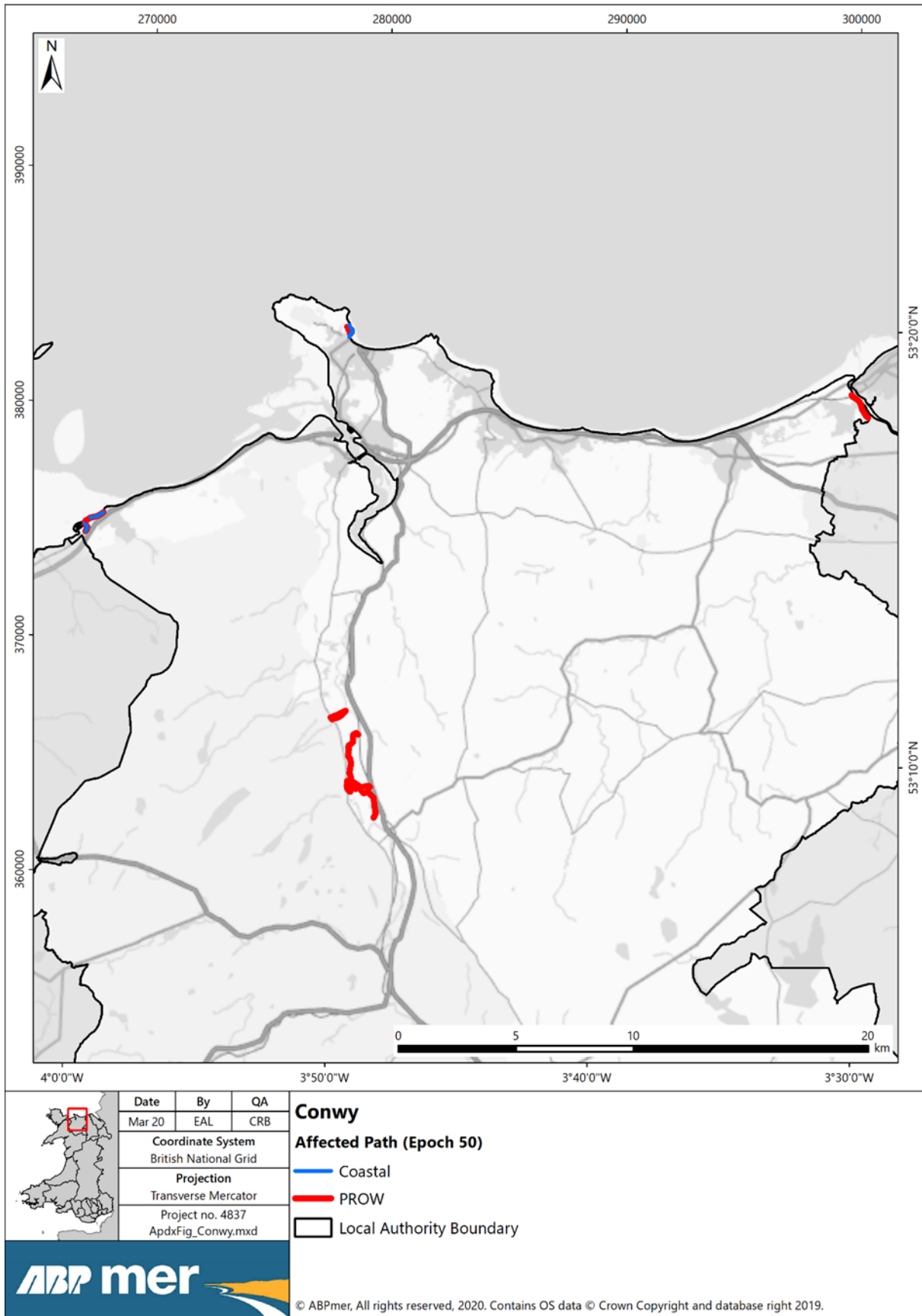


Figure B.2. 11: Affected footpaths, Epoch 50, Conwy.



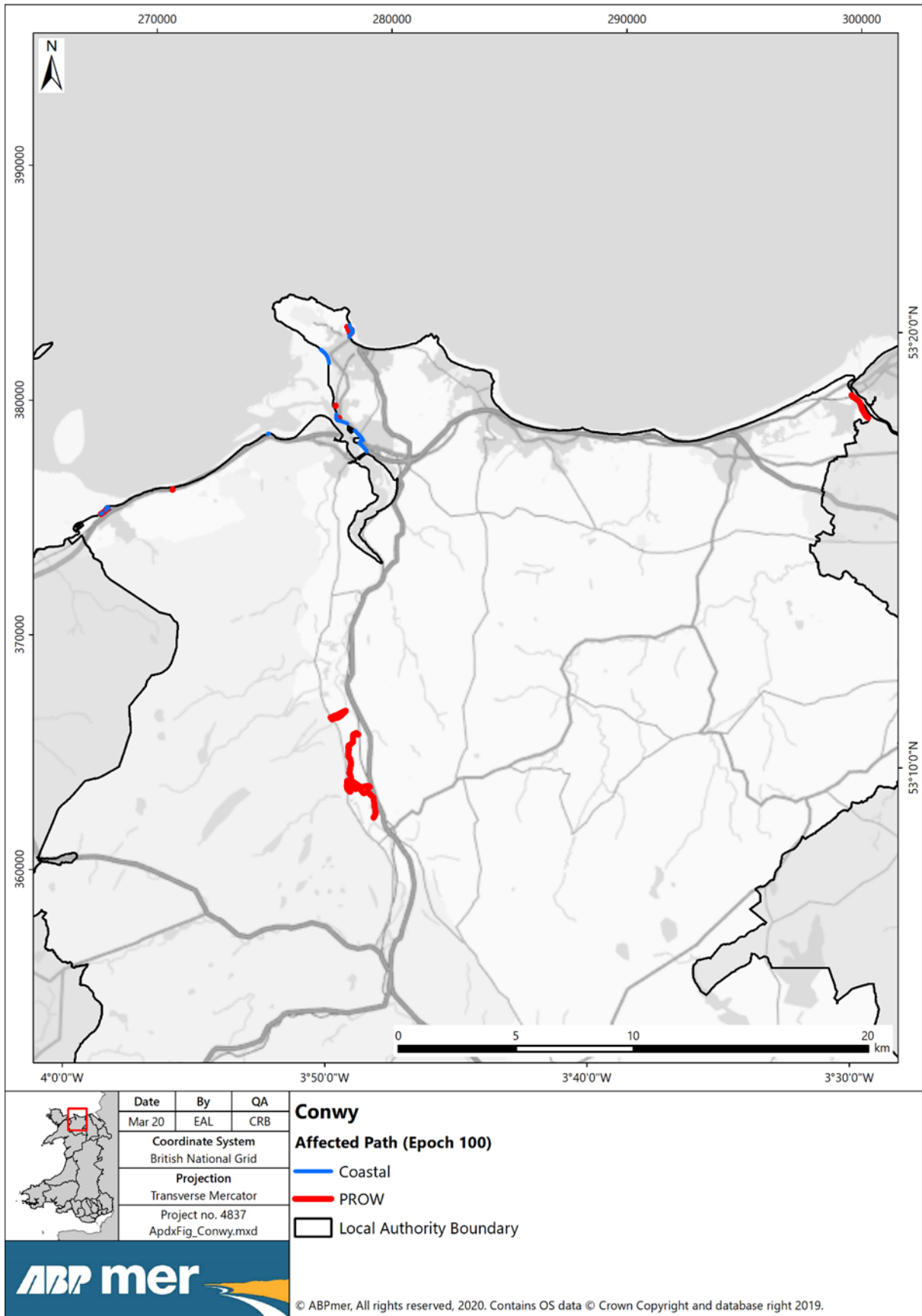


Figure B.2. 12: Affected footpaths, Epoch 100, Conwy.

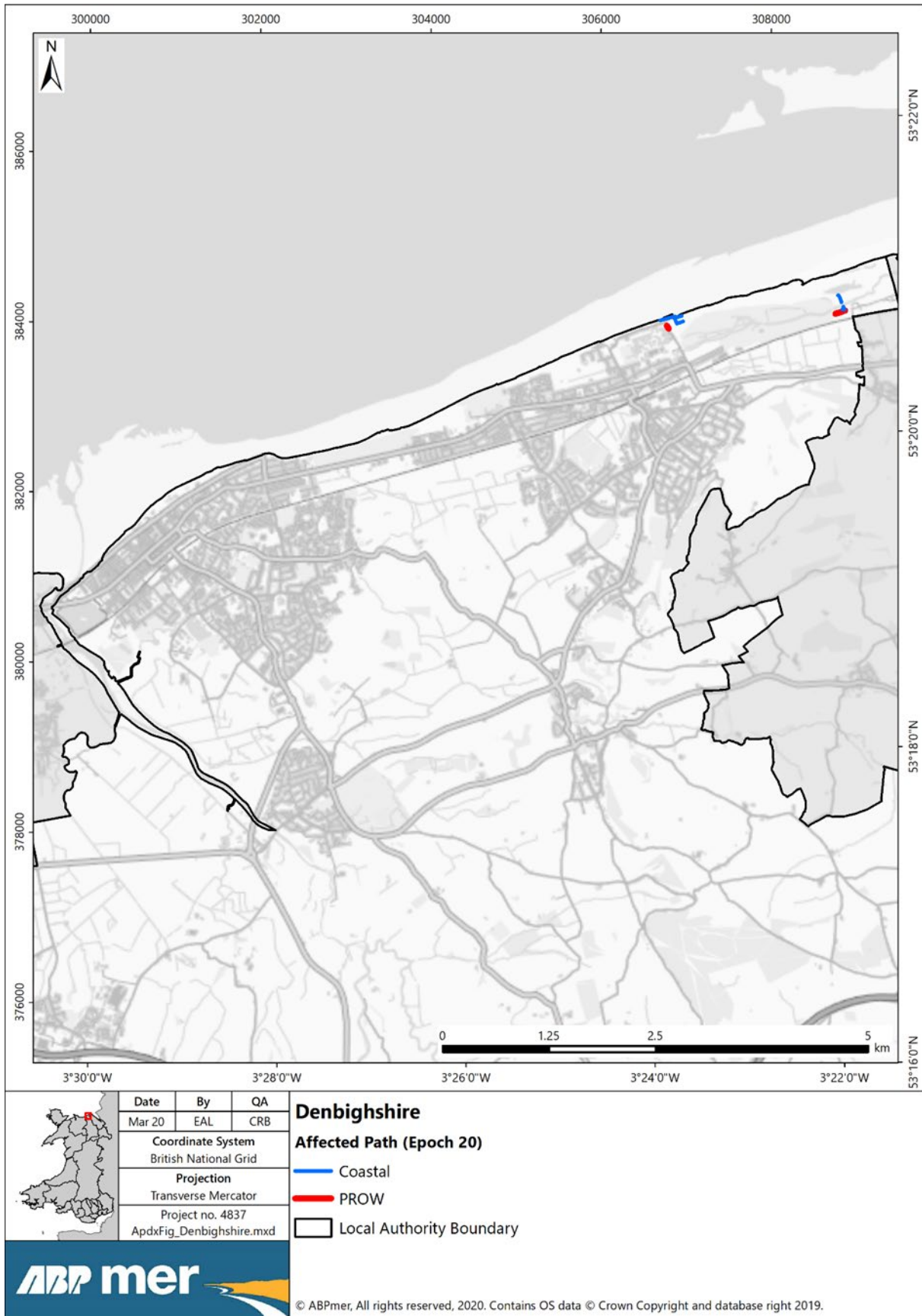


Figure B.2. 13: Affected footpaths, Epoch 20, Denbighshire.



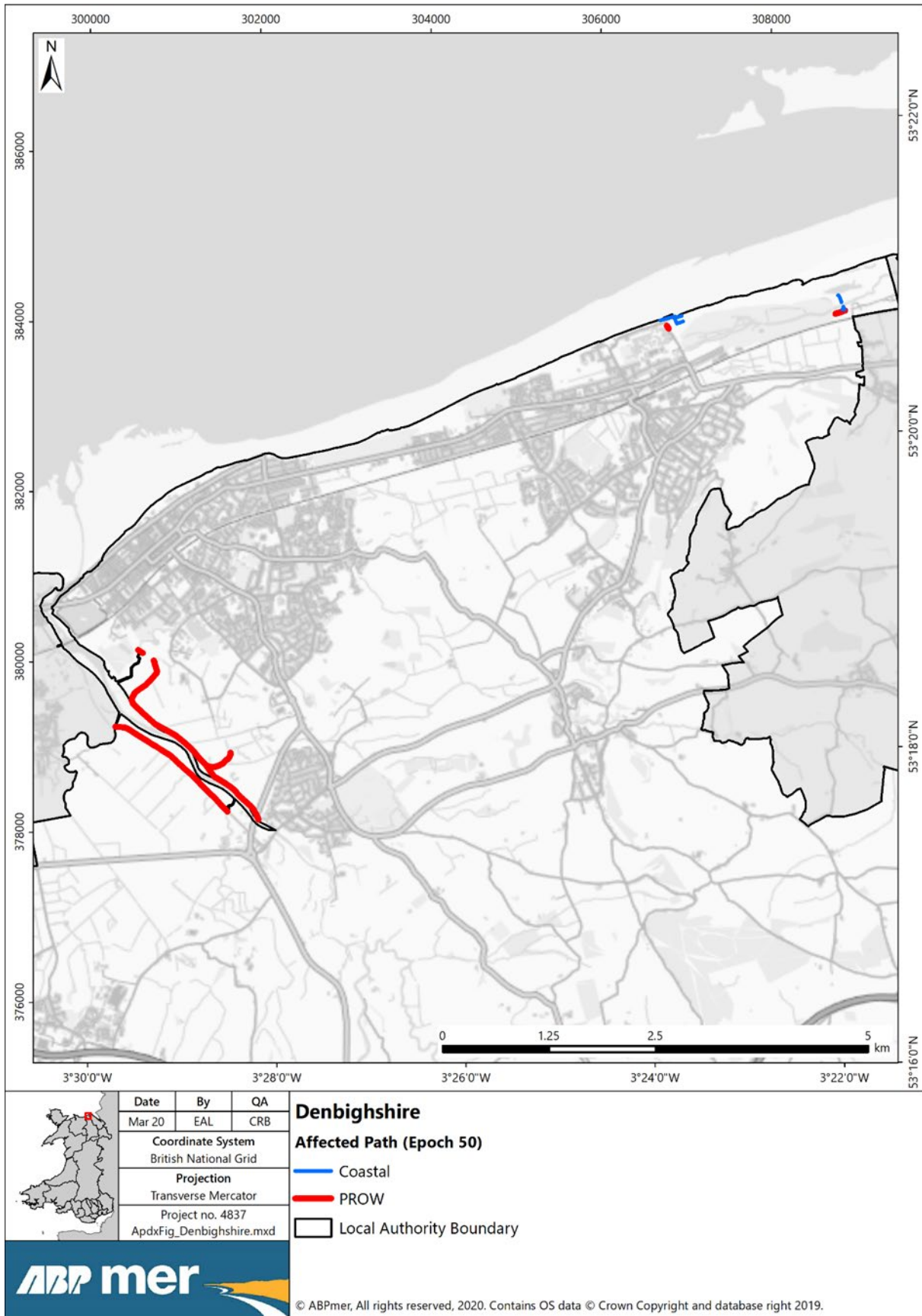


Figure B.2. 14: Affected footpaths, Epoch 50, Denbighshire.

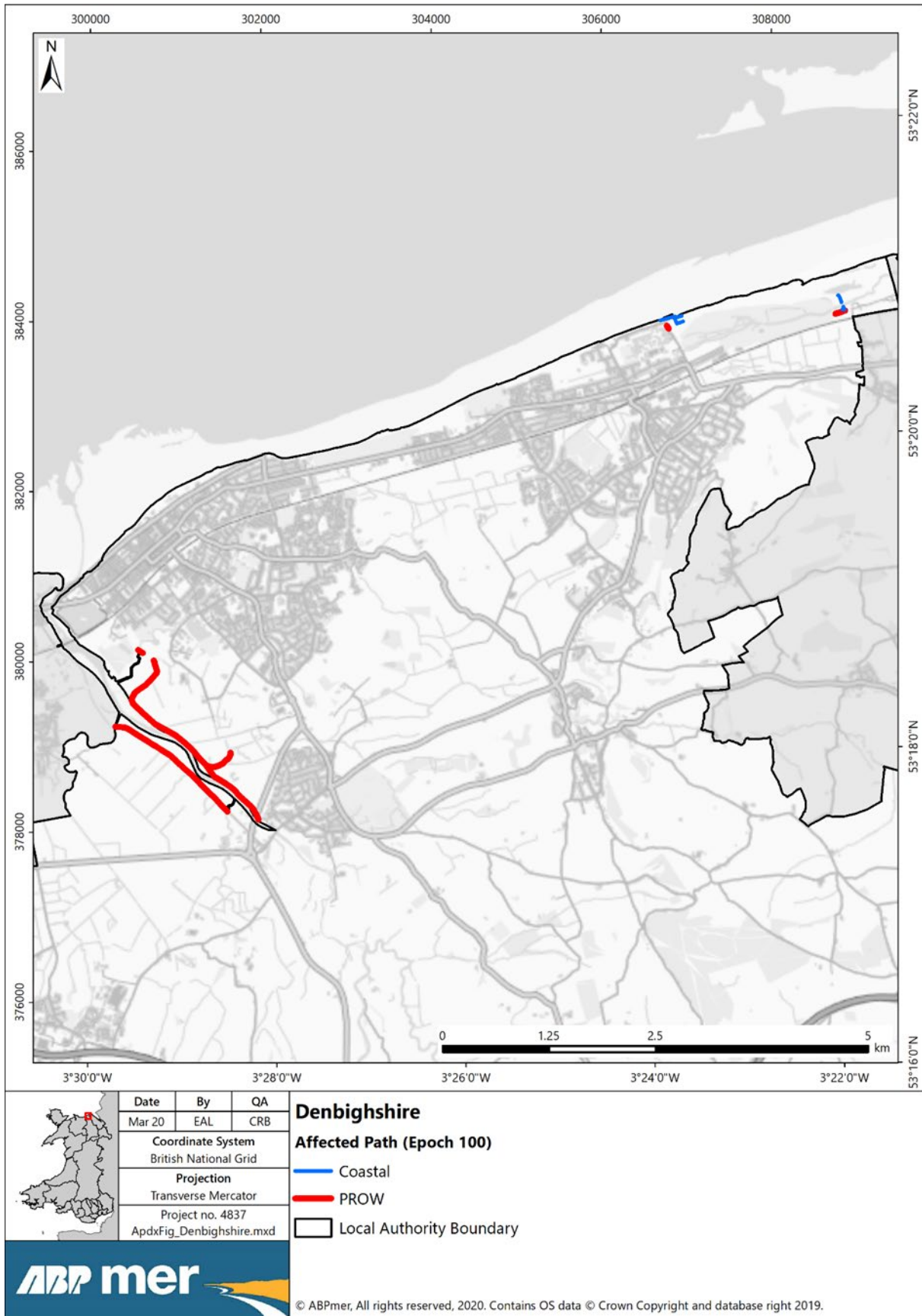


Figure B.2. 15: Affected footpaths, Epoch 100, Denbighshire.

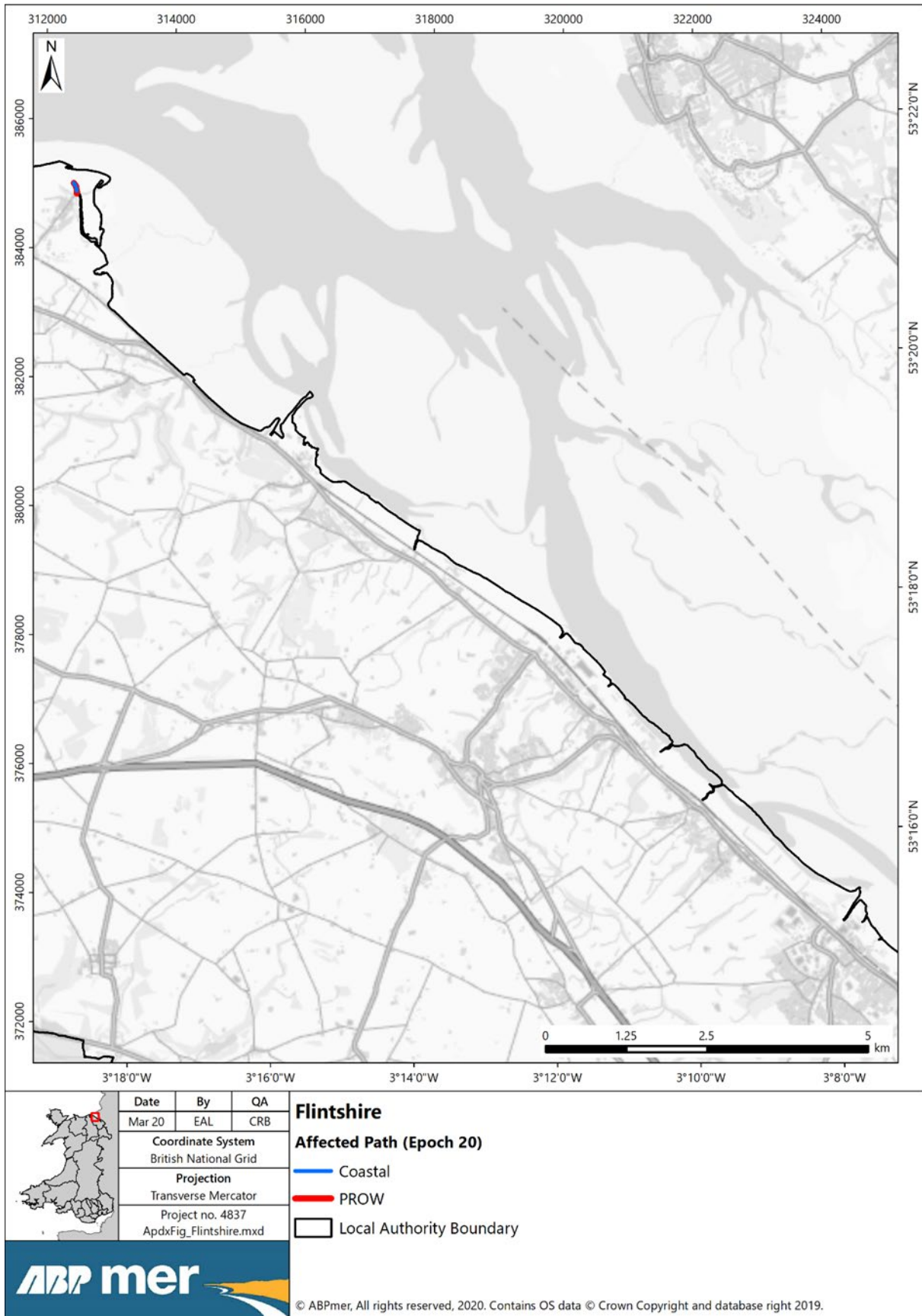


Figure B.2. 16: Affected footpaths, Epoch 20, Flintshire.

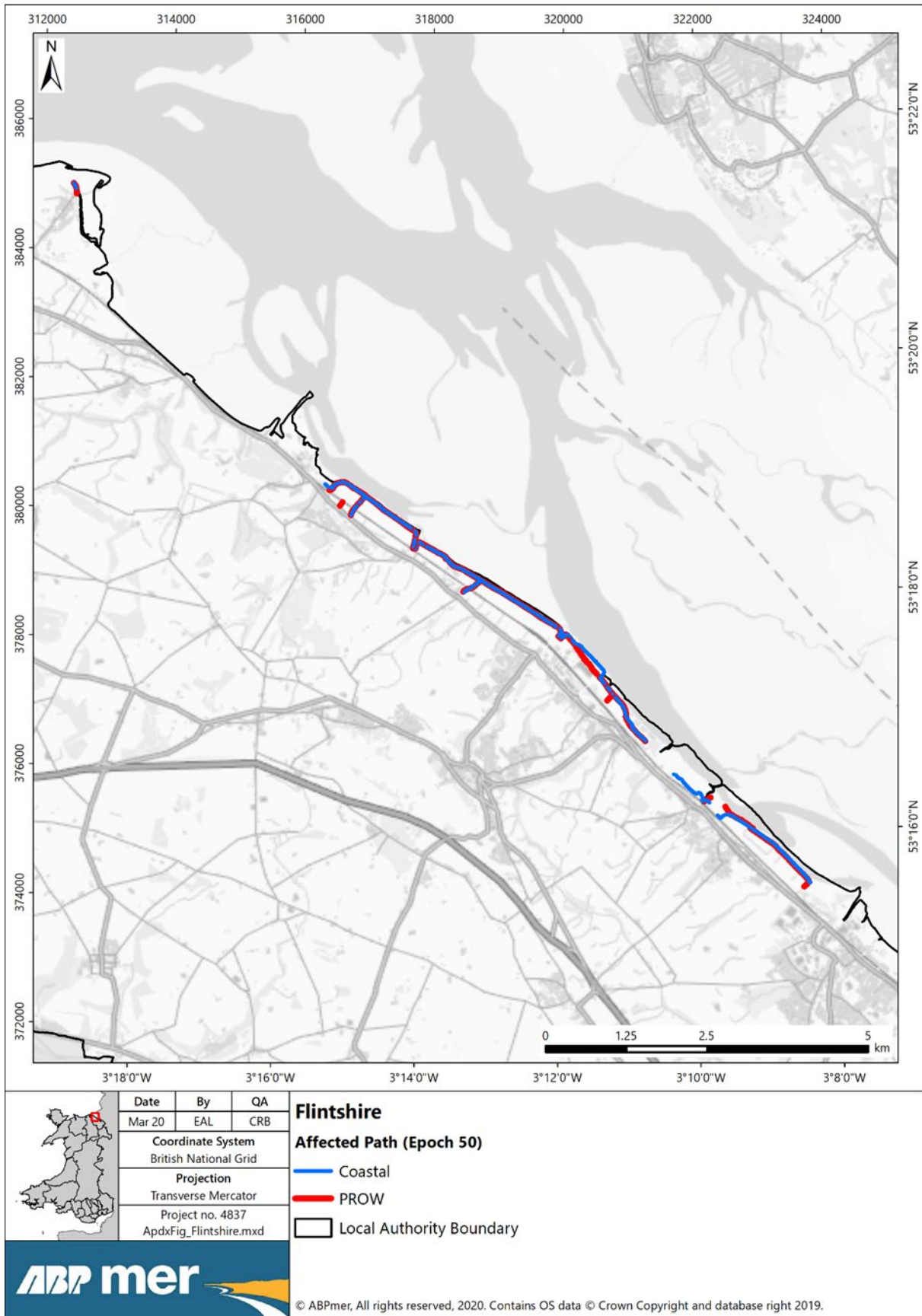


Figure B.2. 17: Affected footpaths, Epoch 50, Flintshire.



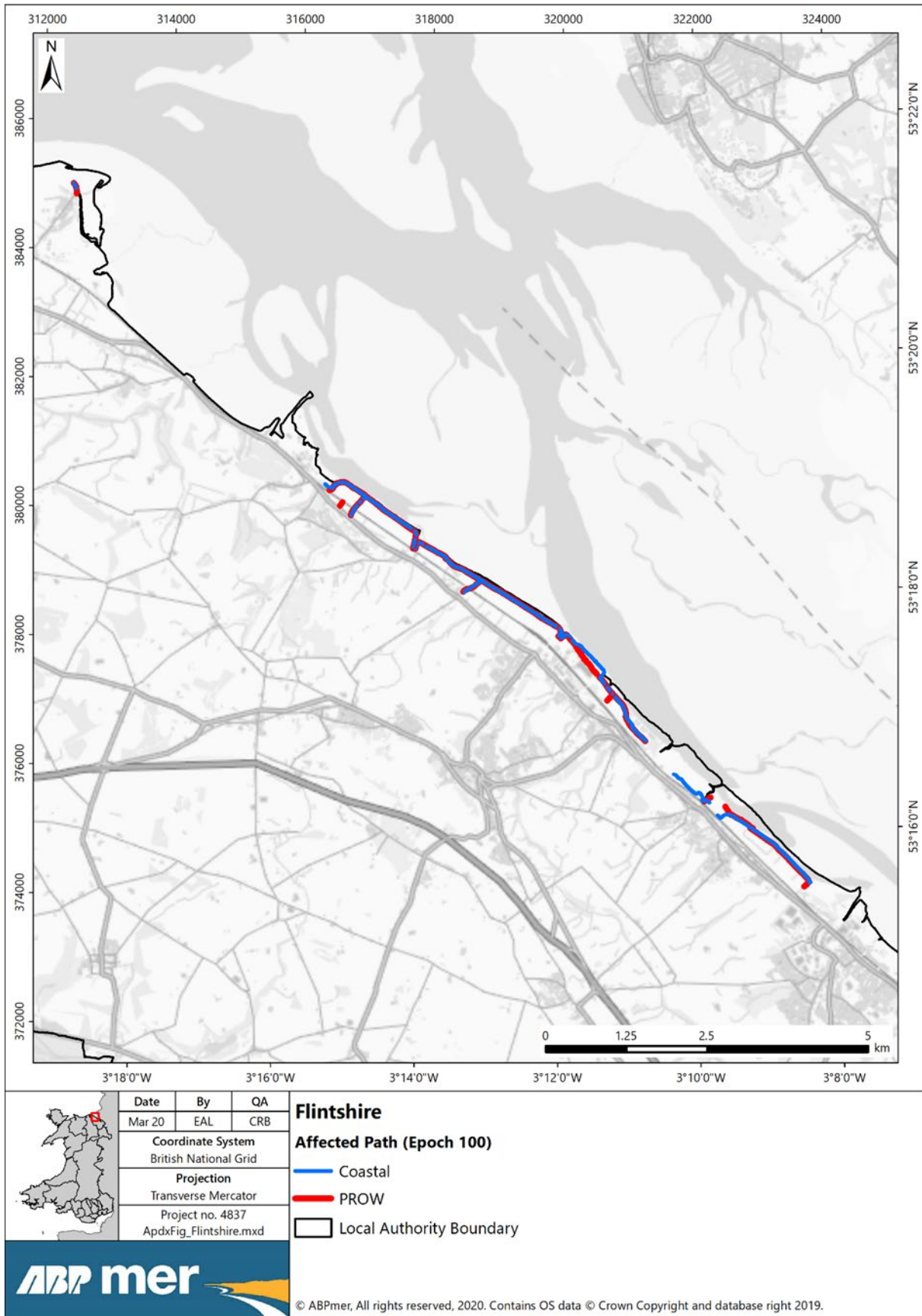


Figure B.2. 18: Affected footpaths, Epoch 100, Flintshire.

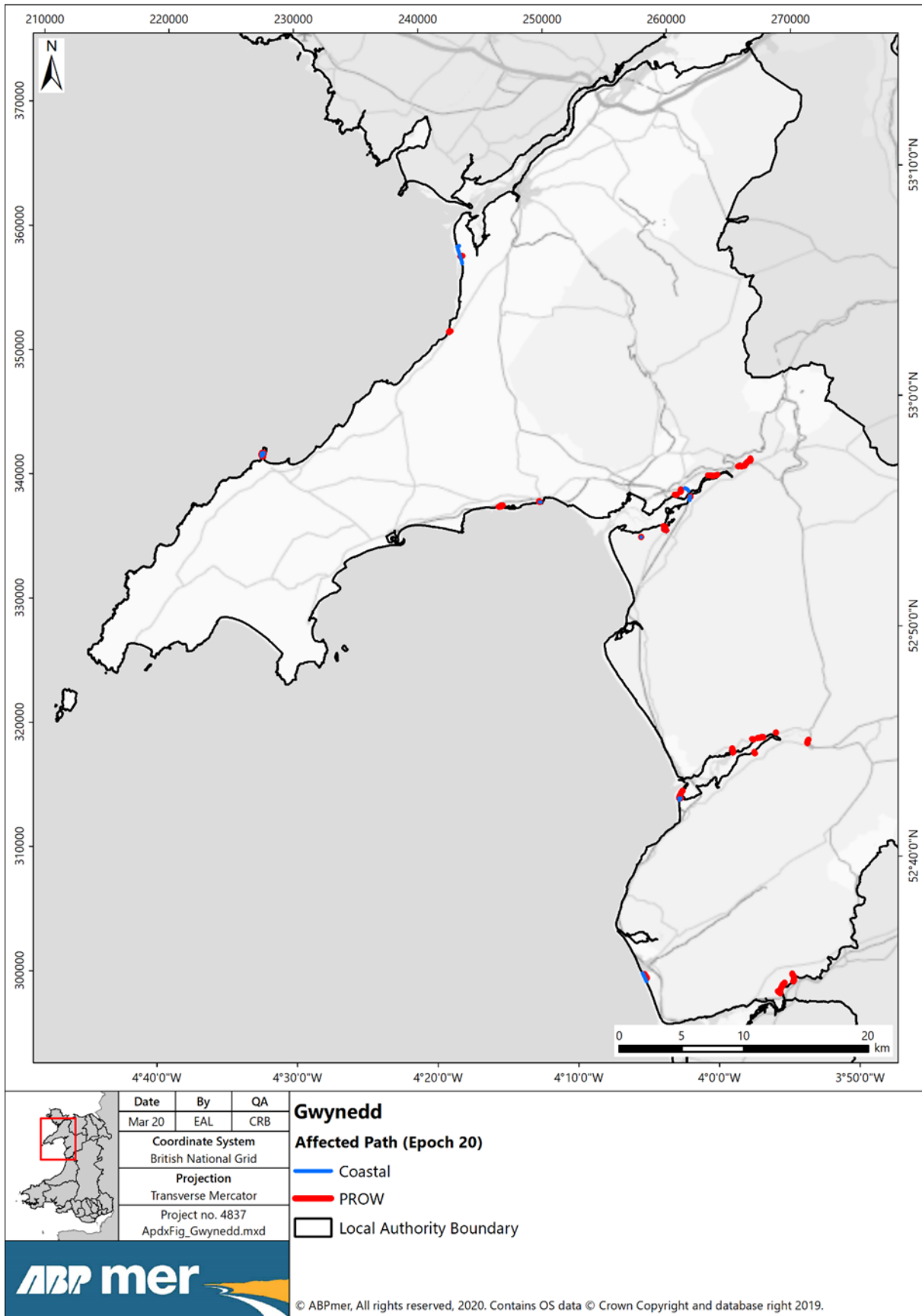


Figure B.2. 19: Affected footpaths, Epoch 20, Gwynedd.

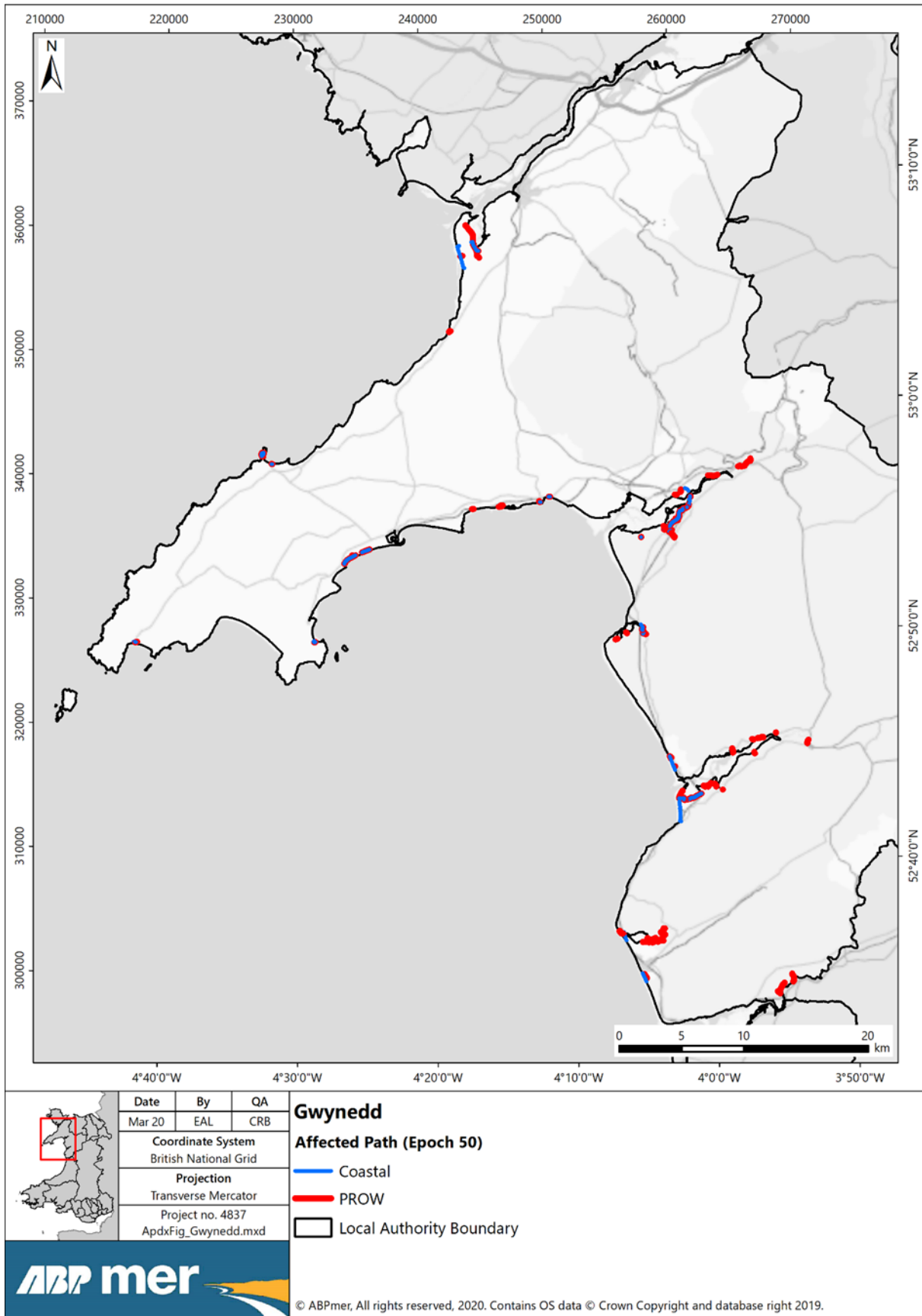


Figure B.2. 20: Affected footpaths, Epoch 50, Gwynedd.

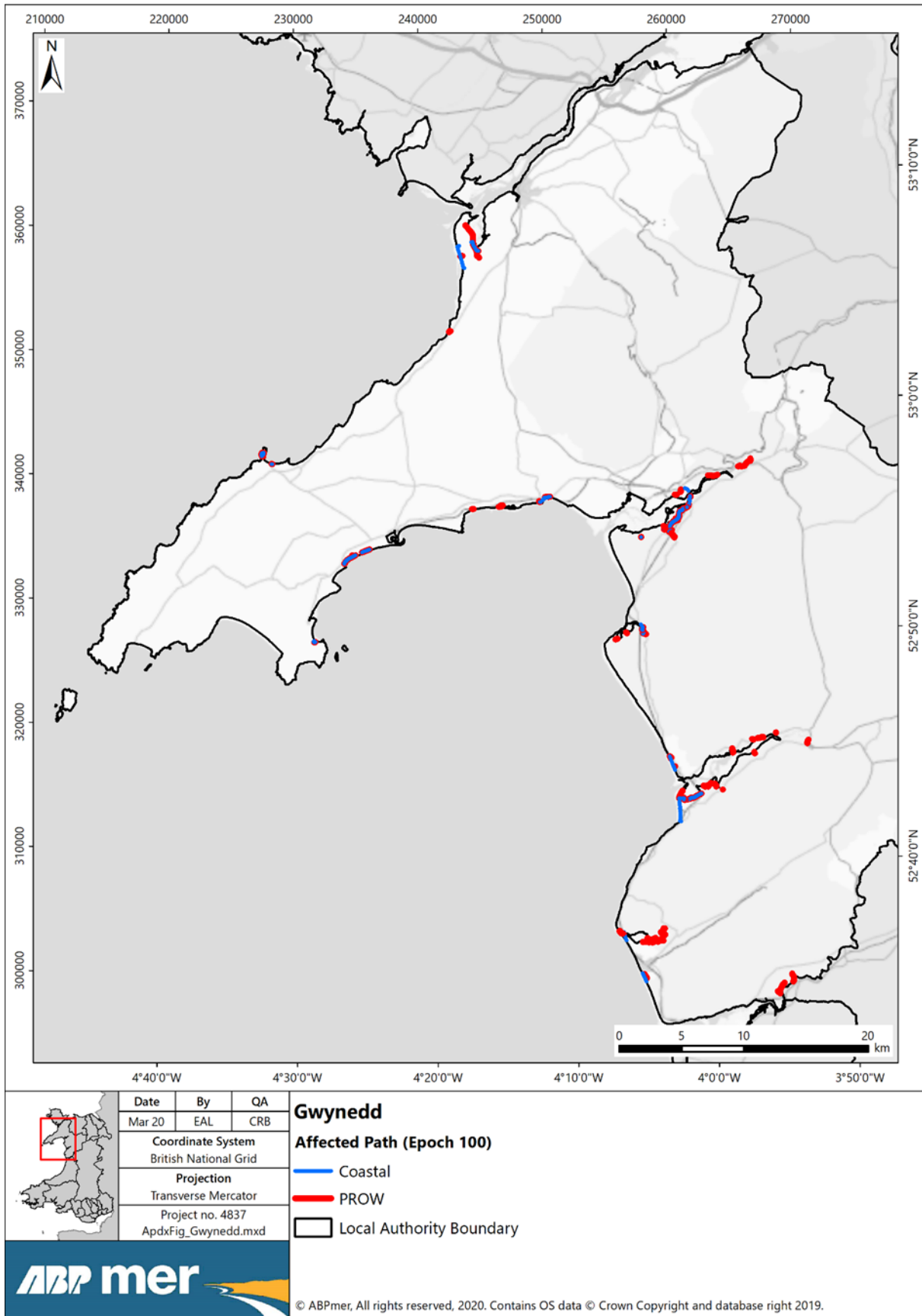


Figure B.2. 21: Affected footpaths, Epoch 100, Gwynedd.



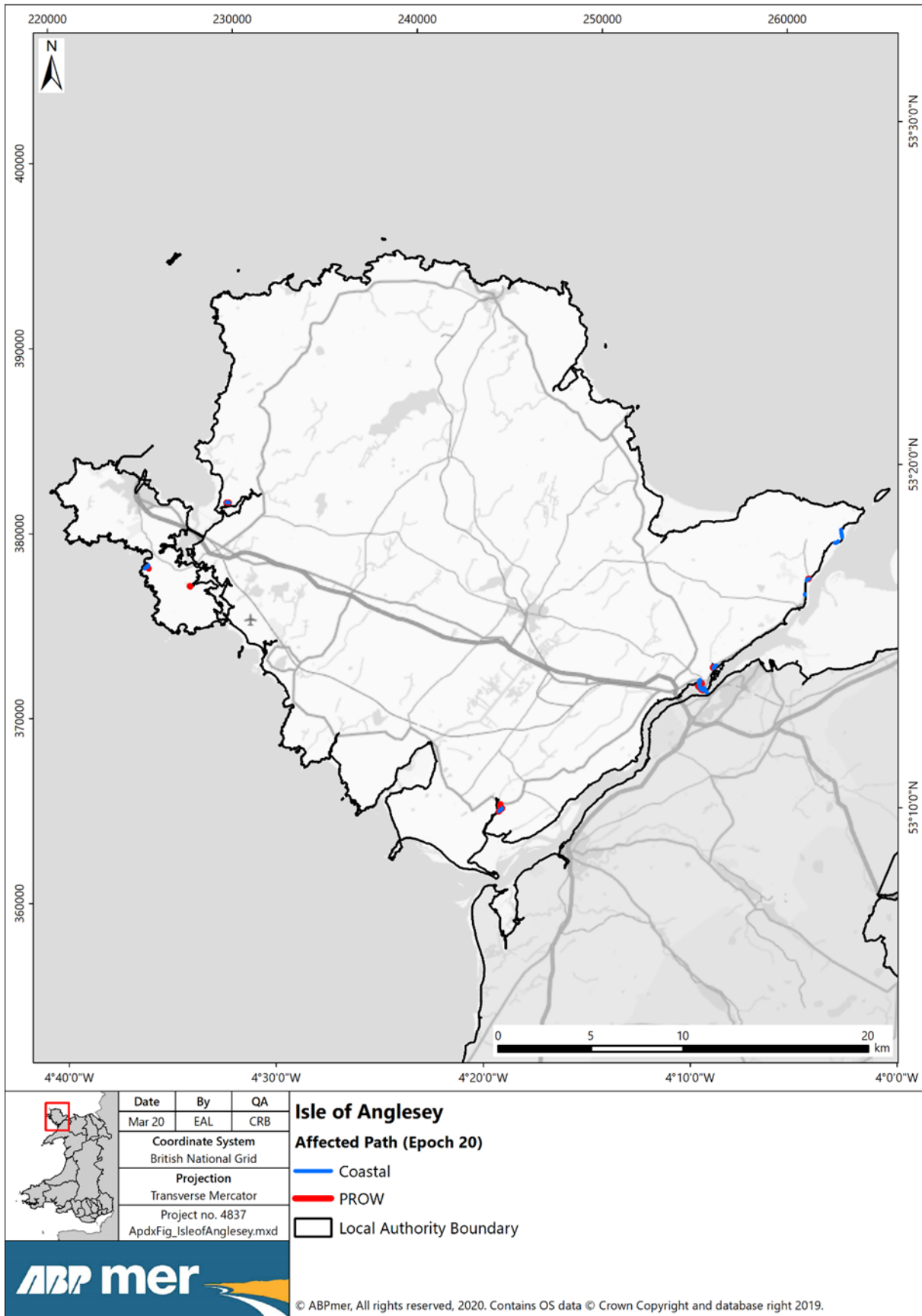


Figure B.2. 22: Affected footpaths, Epoch 20, Isle of Anglesey.

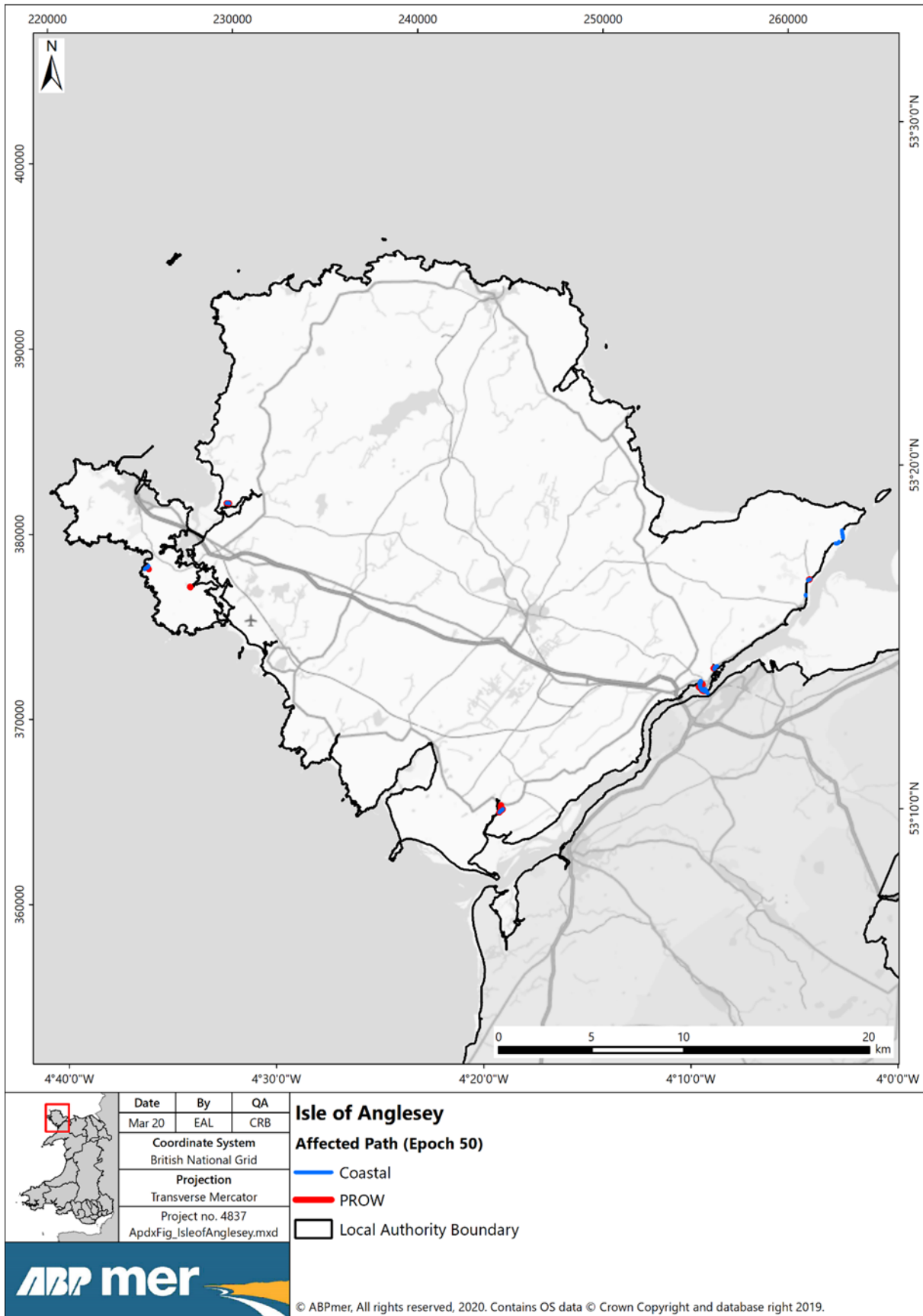


Figure B.2. 23: Affected footpaths, Epoch 50, Isle of Anglesey.

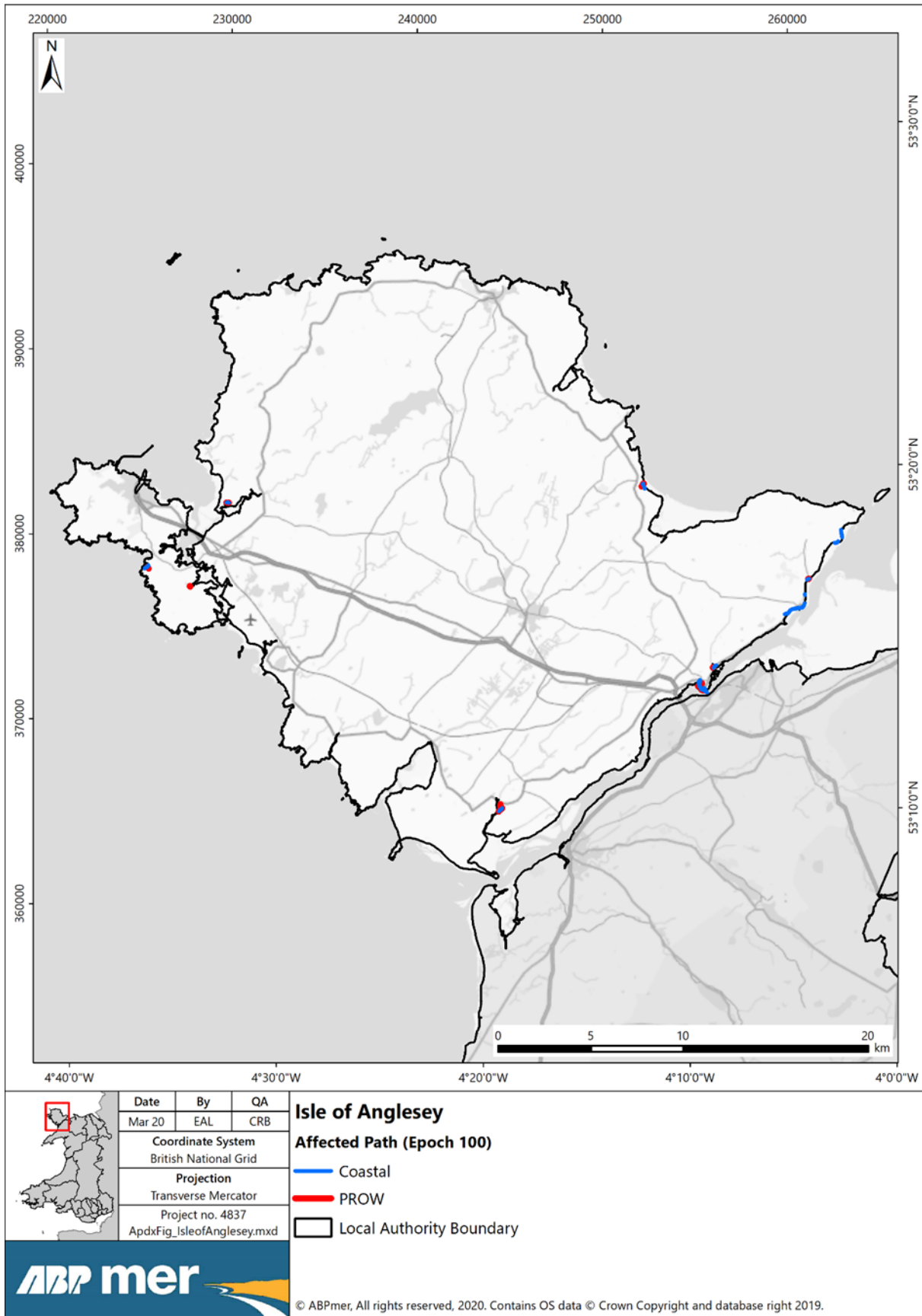


Figure B.2. 24: Affected footpaths, Epoch 100, Isle of Anglesey.

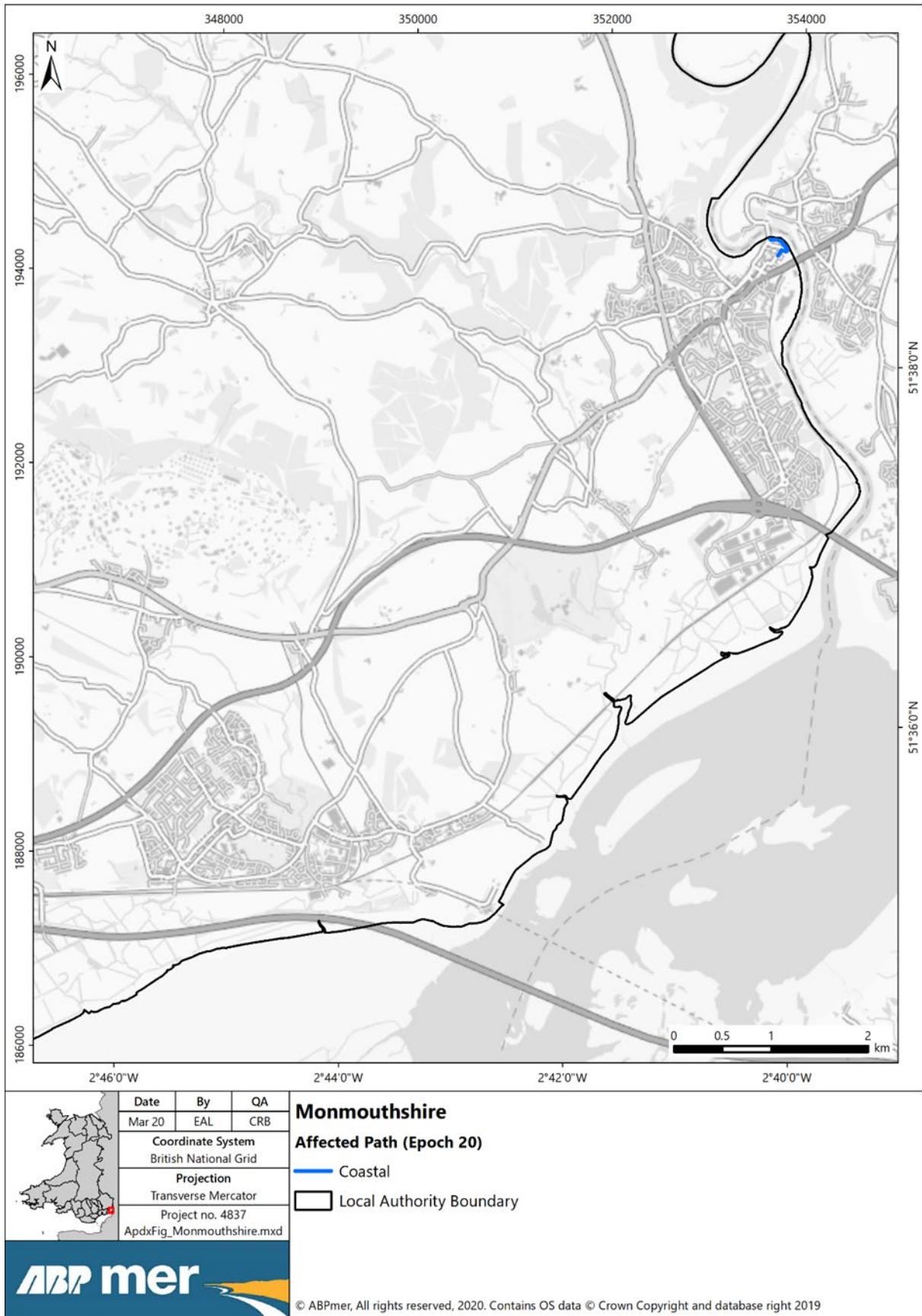
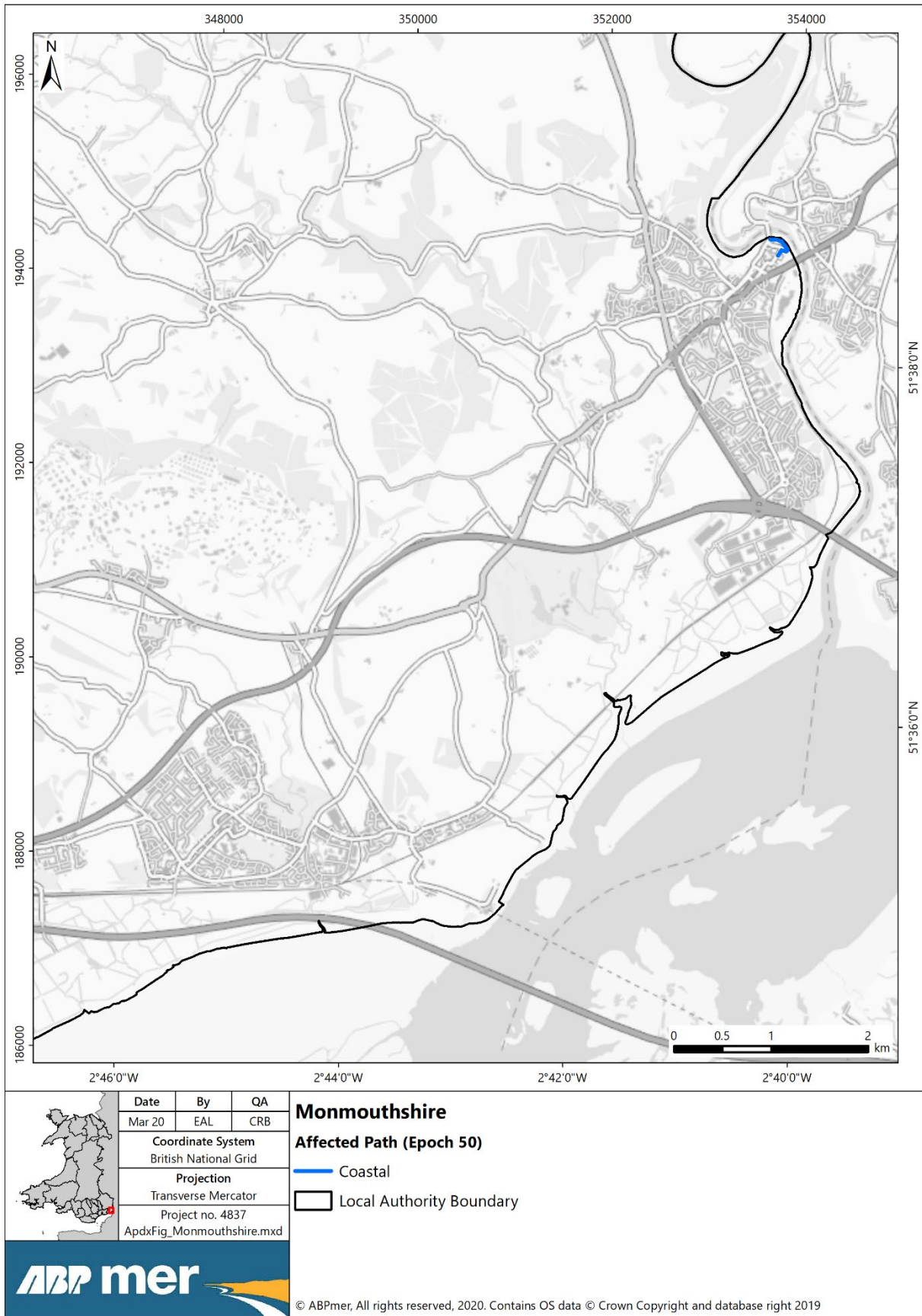


Figure B.2. 25: Affected footpaths, Epoch 20, Monmouthshire.





**Figure B.2. 26:** Affected footpaths, Epoch 50, Monmouthshire.

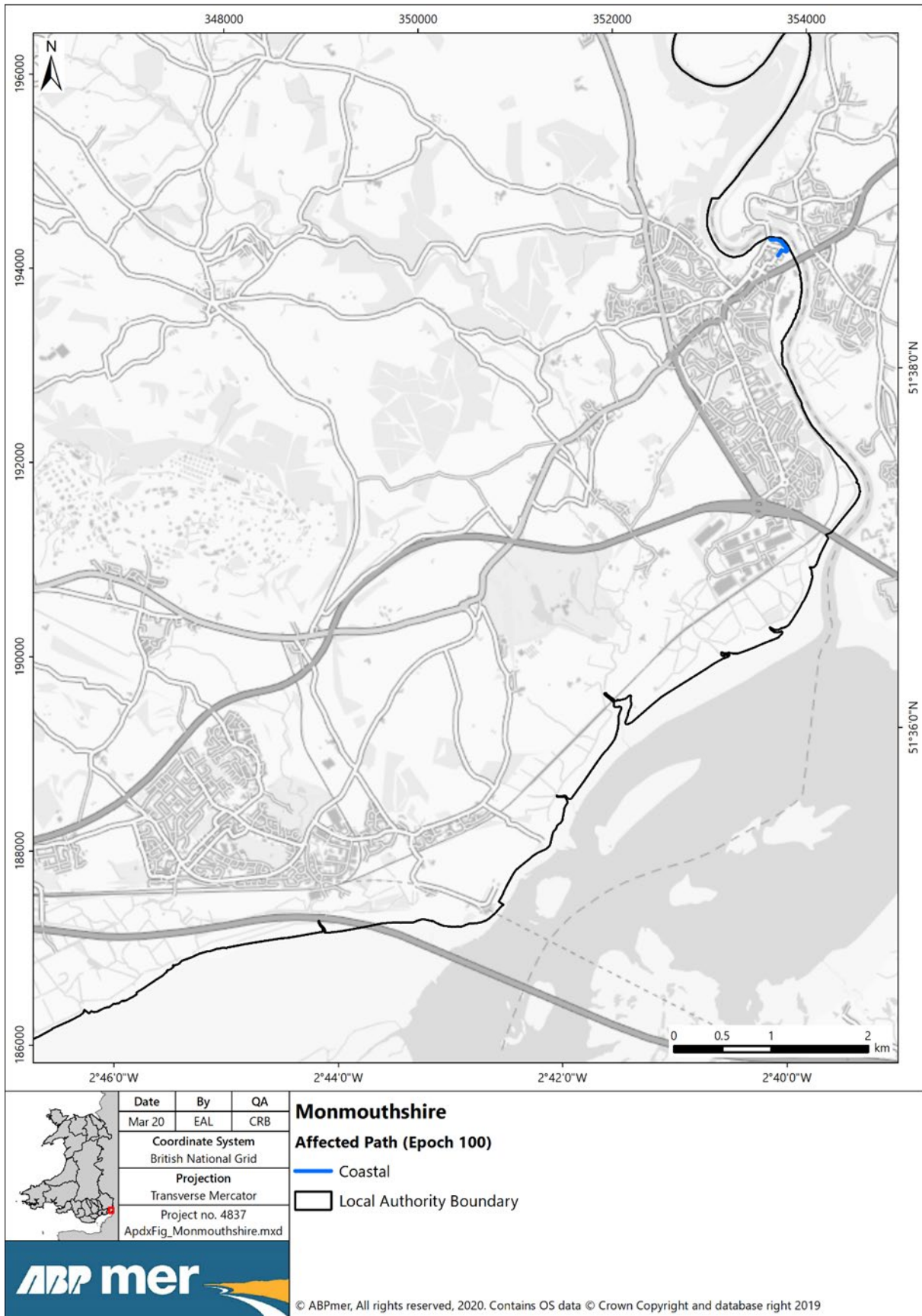


Figure B.2. 27: Affected footpaths, Epoch 100, Monmouthshire.



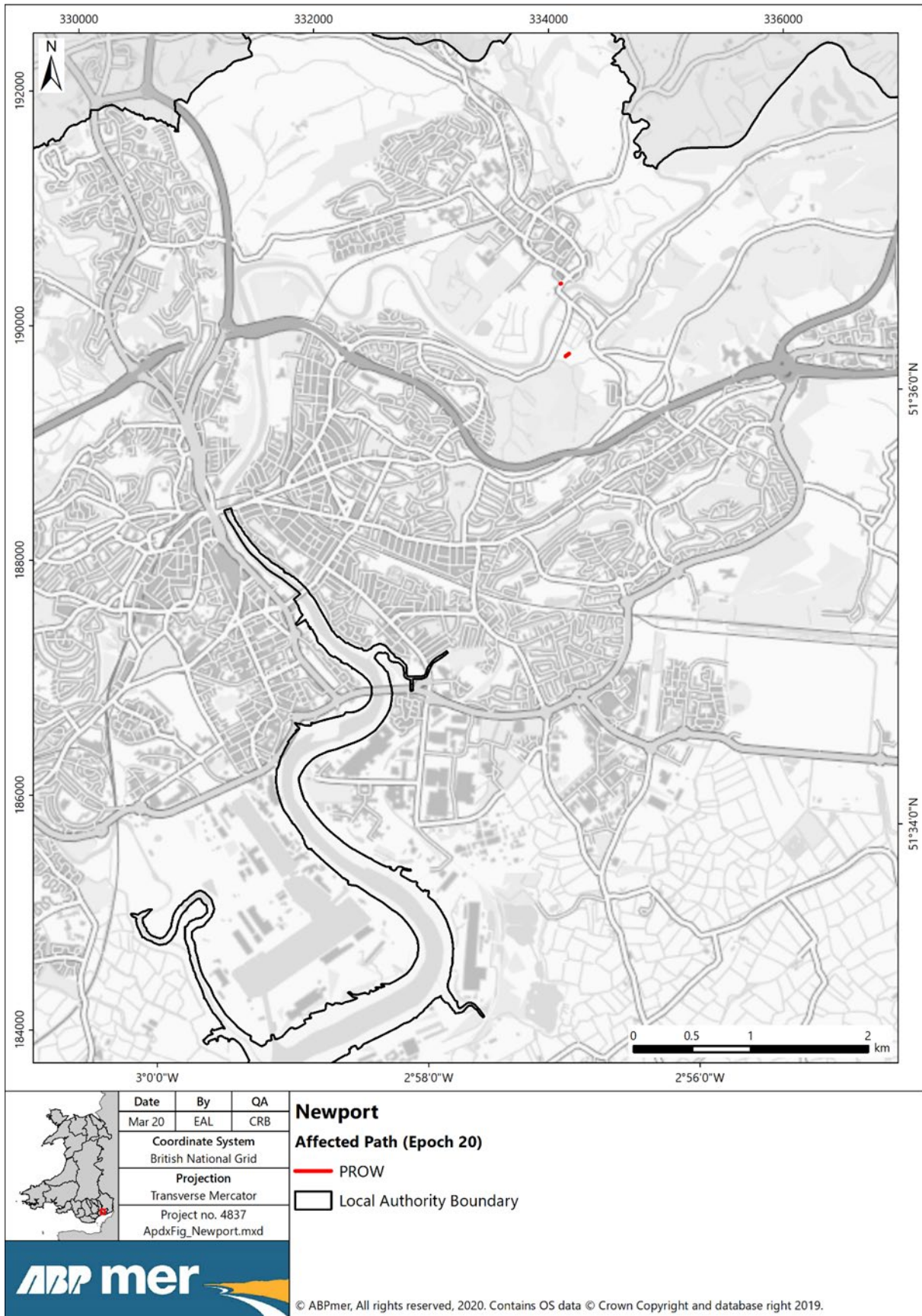


Figure B.2. 28: Affected footpaths, Epoch 20, Newport.



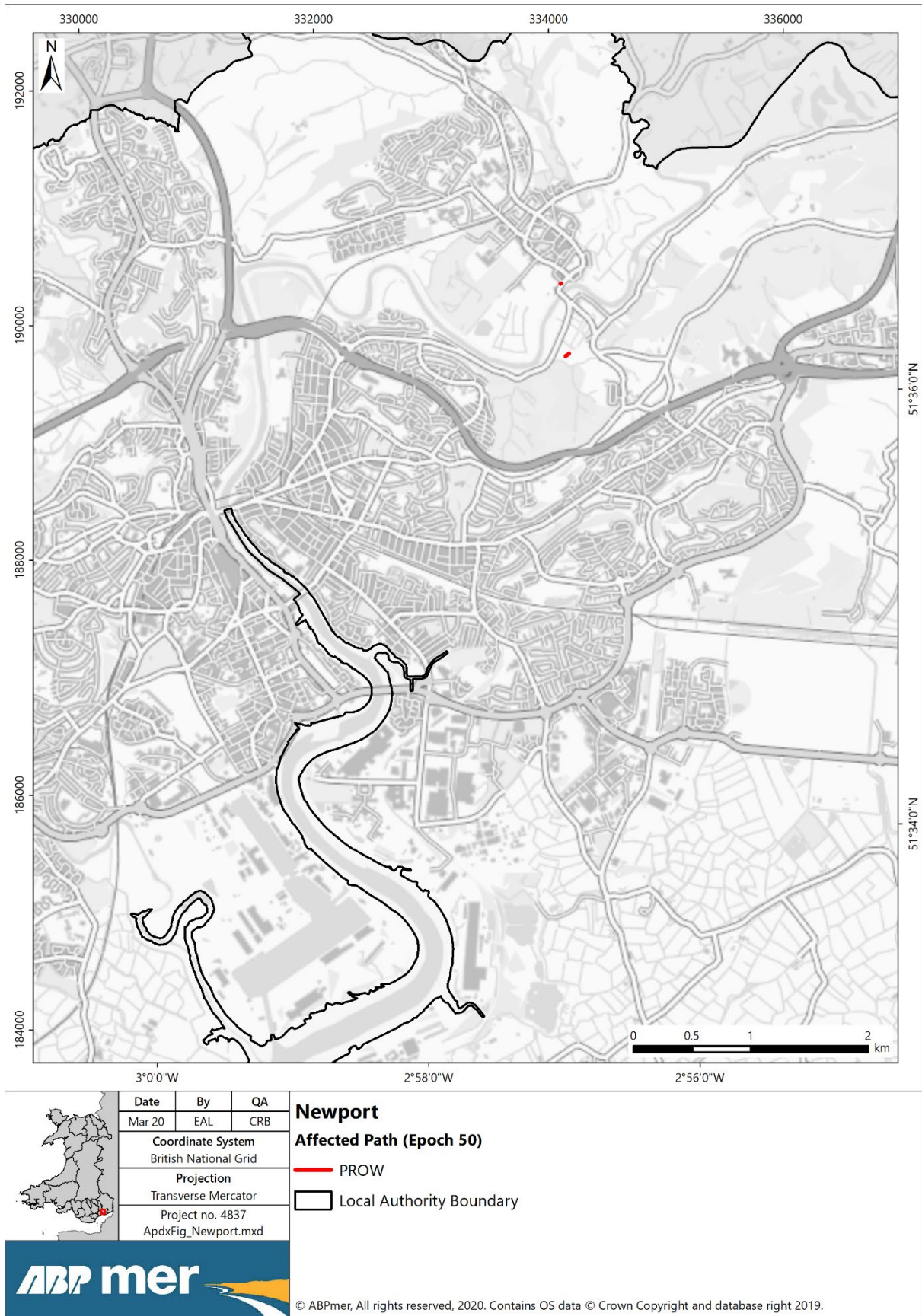


Figure B.2. 29: Affected footpaths, Epoch 50, Newport.

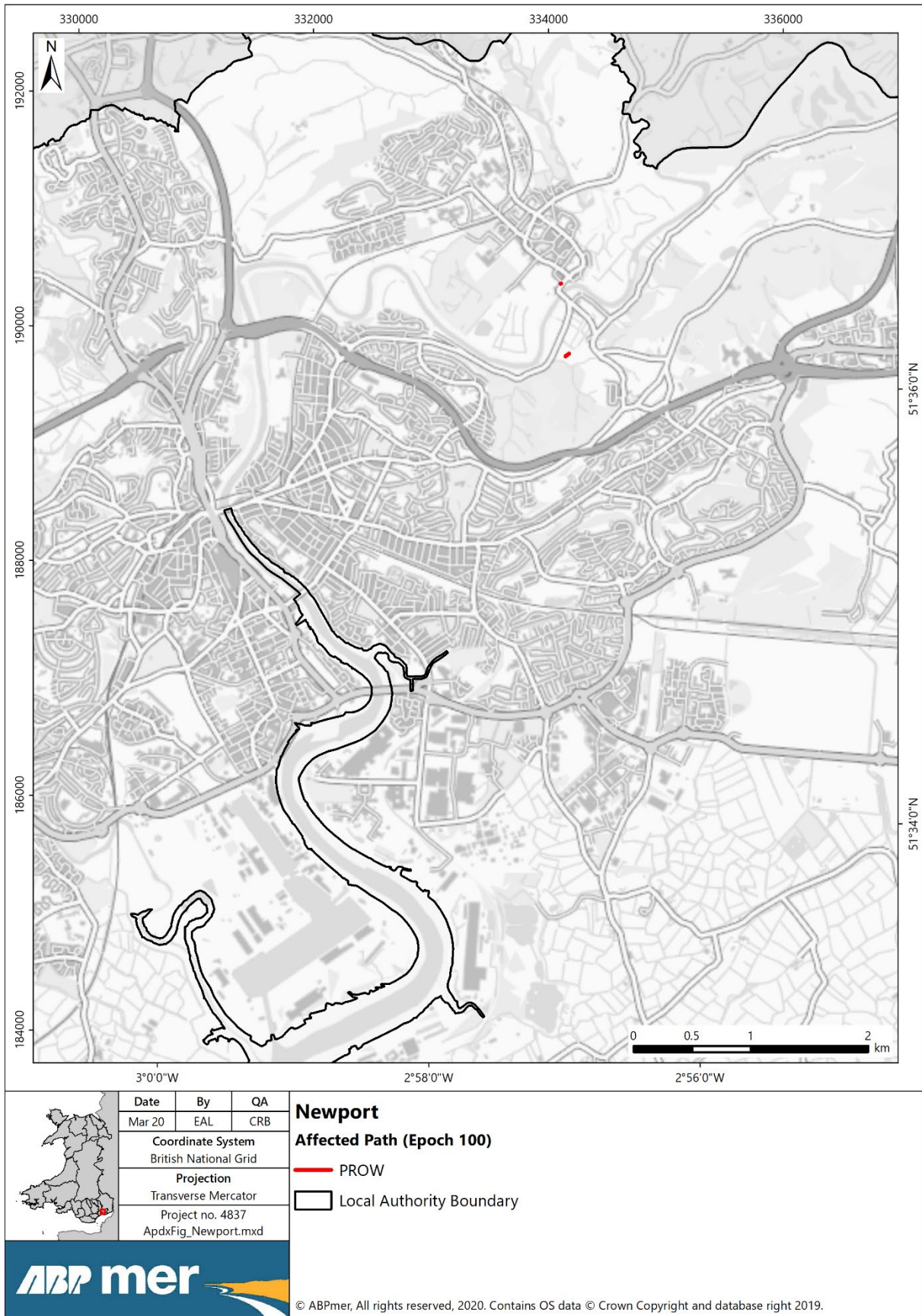


Figure B.2. 30: Affected footpaths, Epoch 100, Newport.

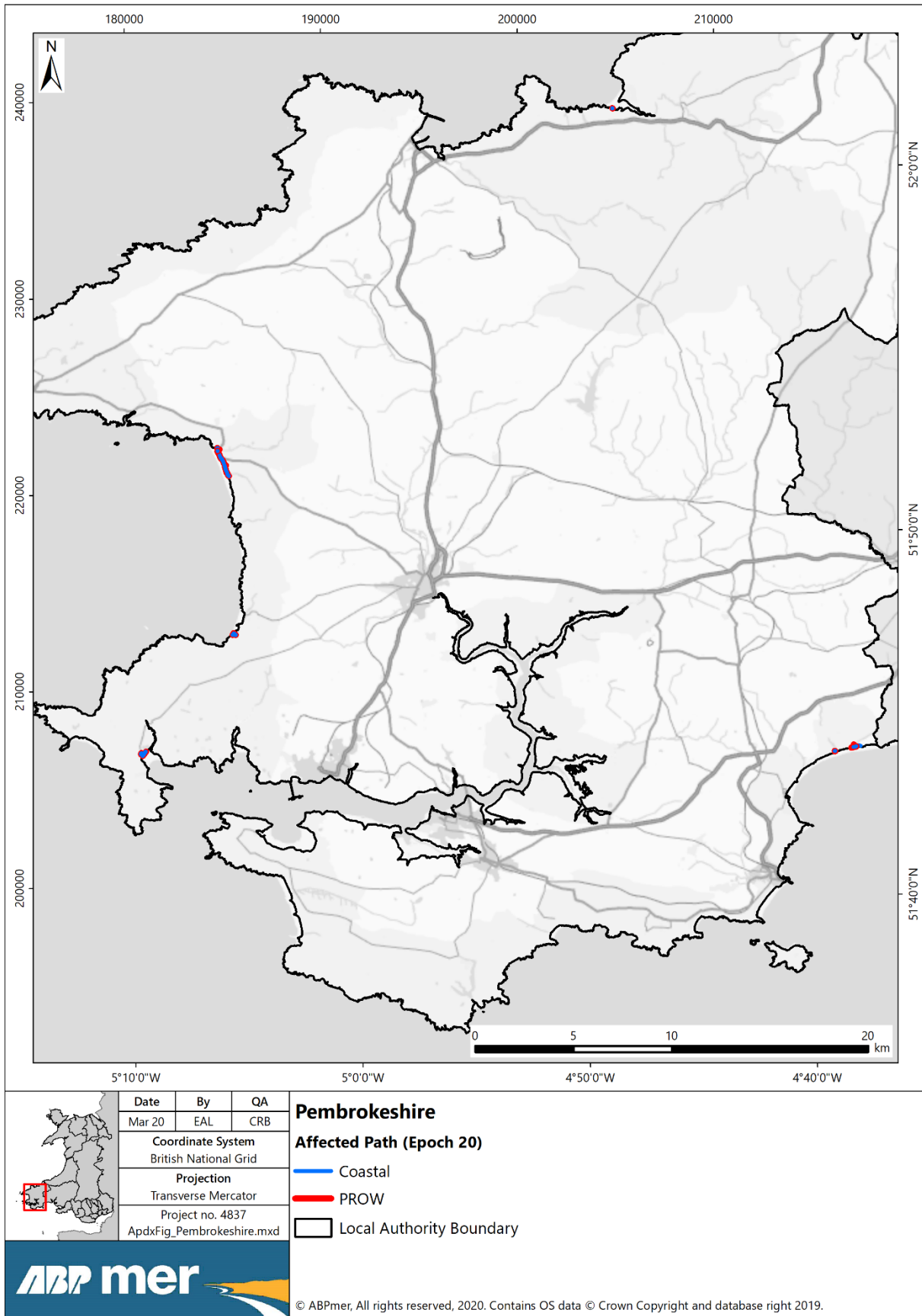


Figure B.2. 31: Affected footpaths, Epoch 20, Pembrokeshire.



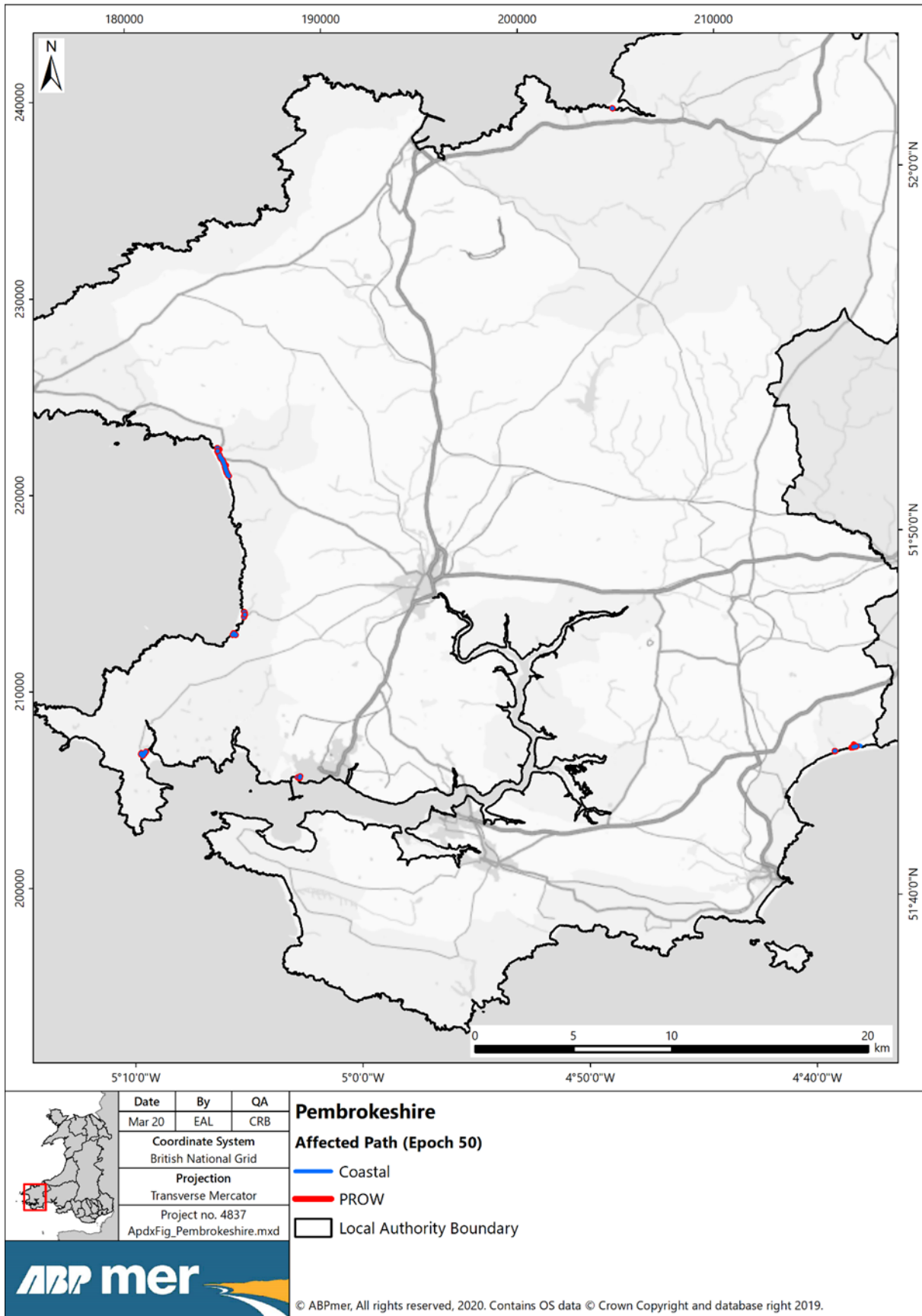


Figure B.2. 32: Affected footpaths, Epoch 50, Pembrokeshire.

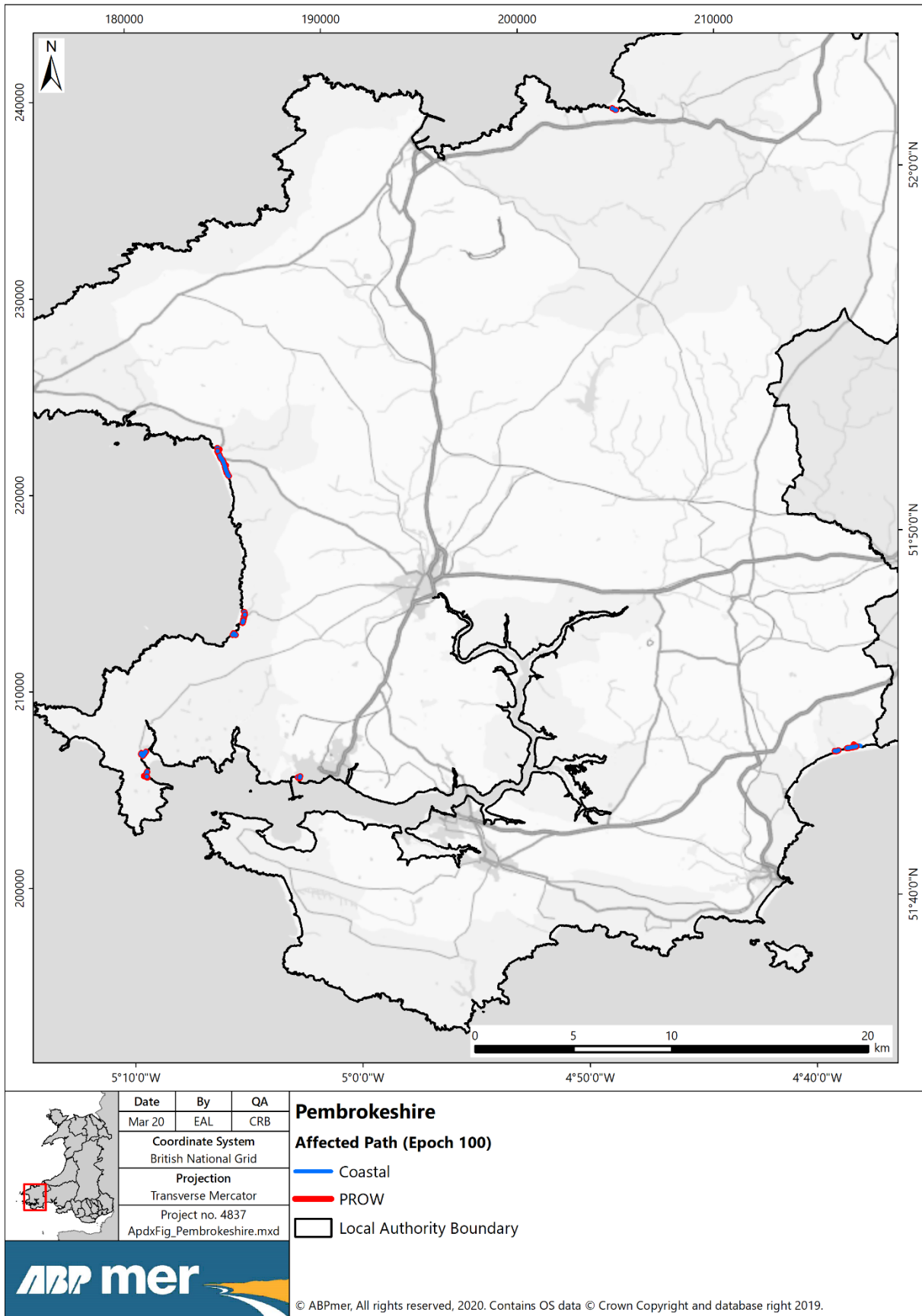


Figure B.2. 33: Affected footpaths, Epoch 100, Pembrokeshire.

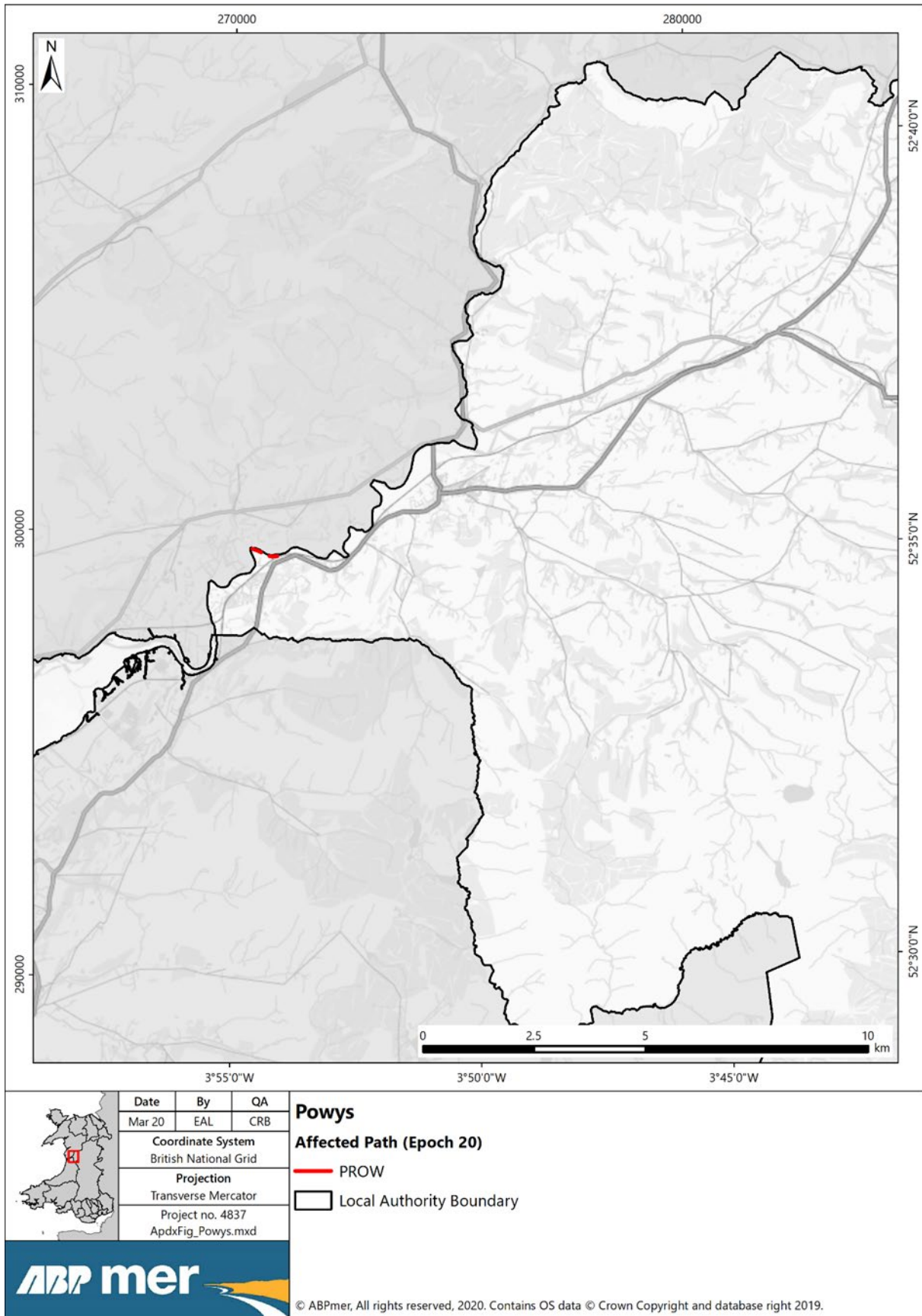


Figure B.2. 34: Affected footpaths, Epoch 20, Powys.



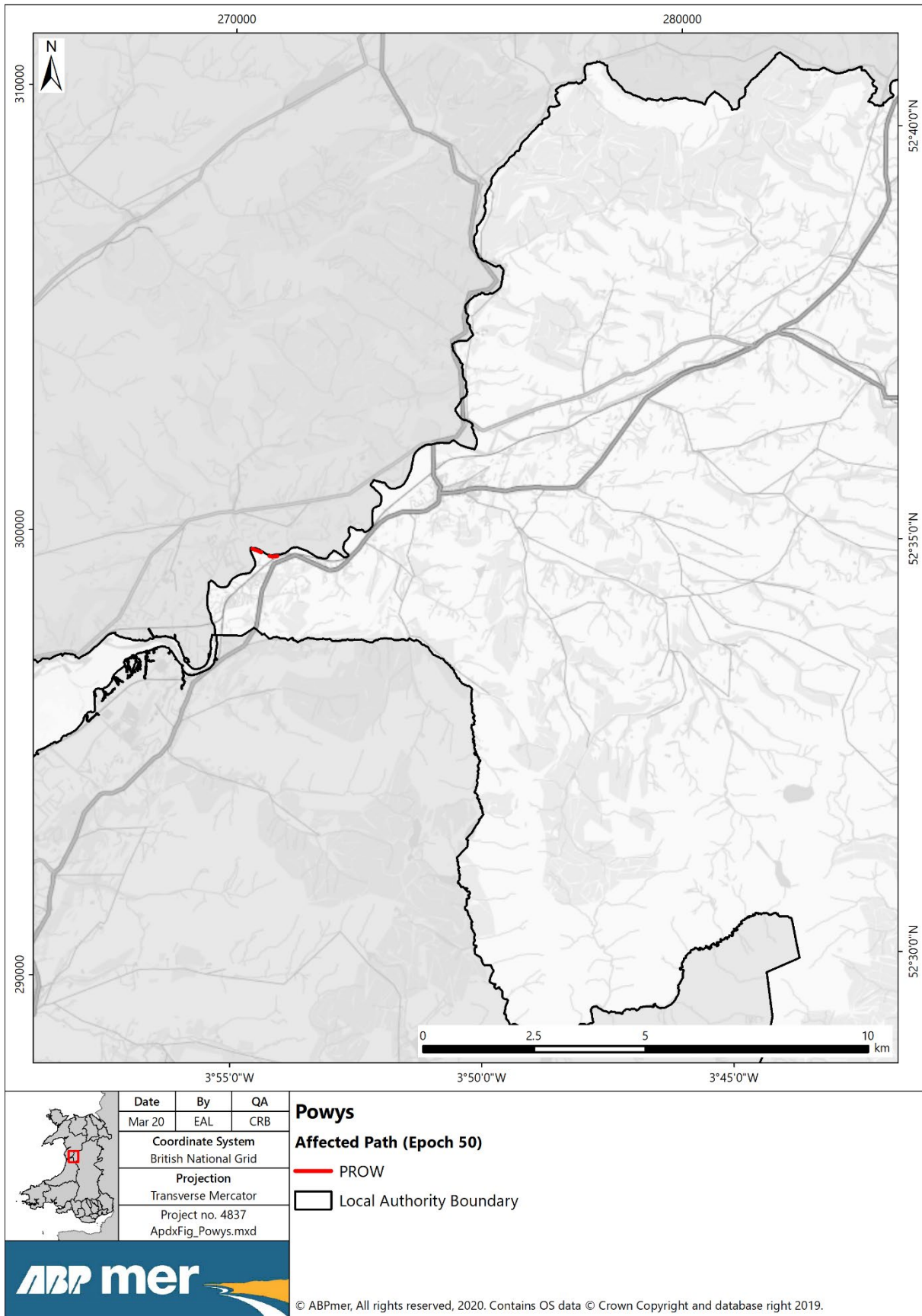


Figure B.2. 35: Affected footpaths, Epoch 50, Powys.

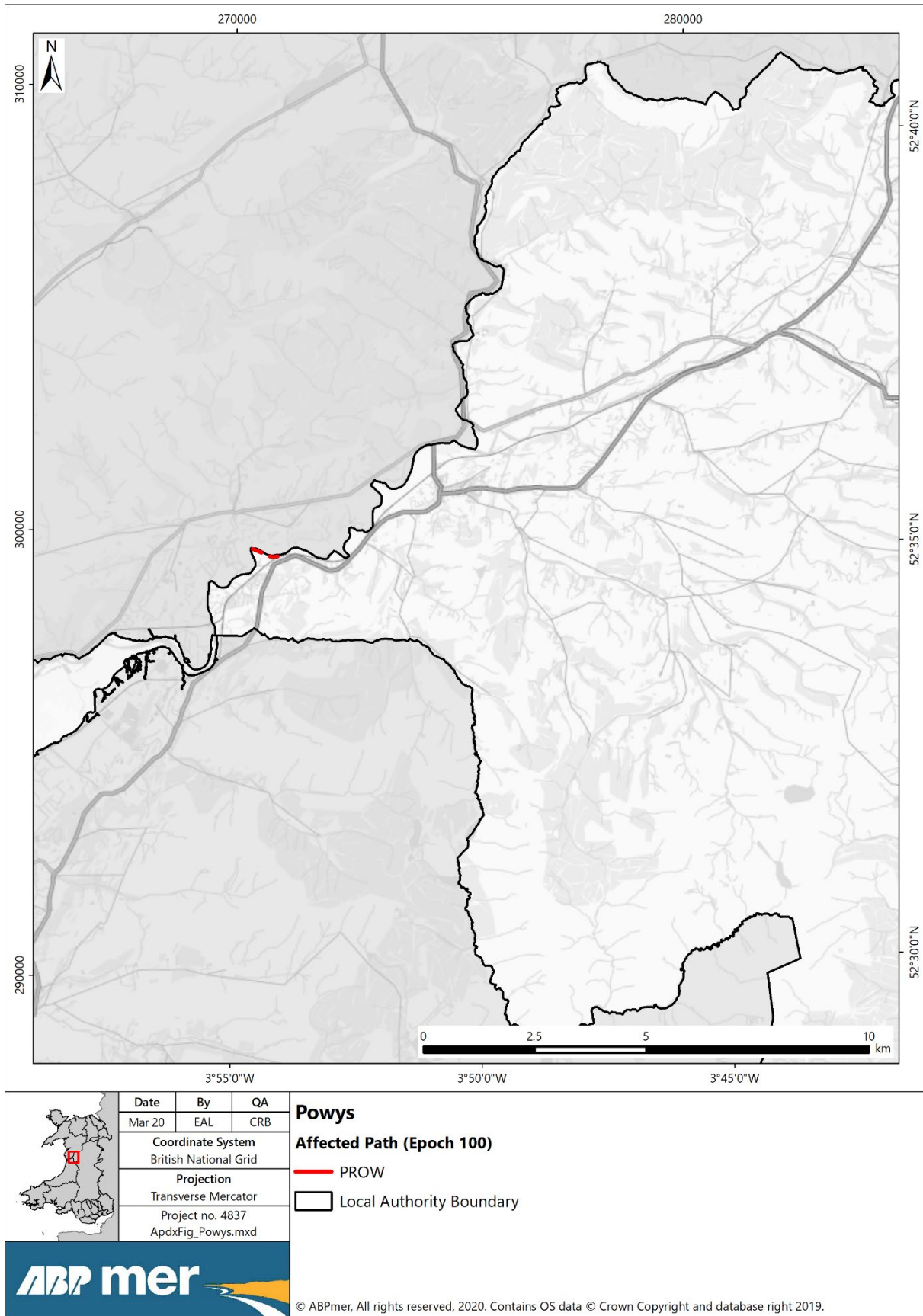


Figure B.2. 36: Affected footpaths, Epoch 100, Powys.

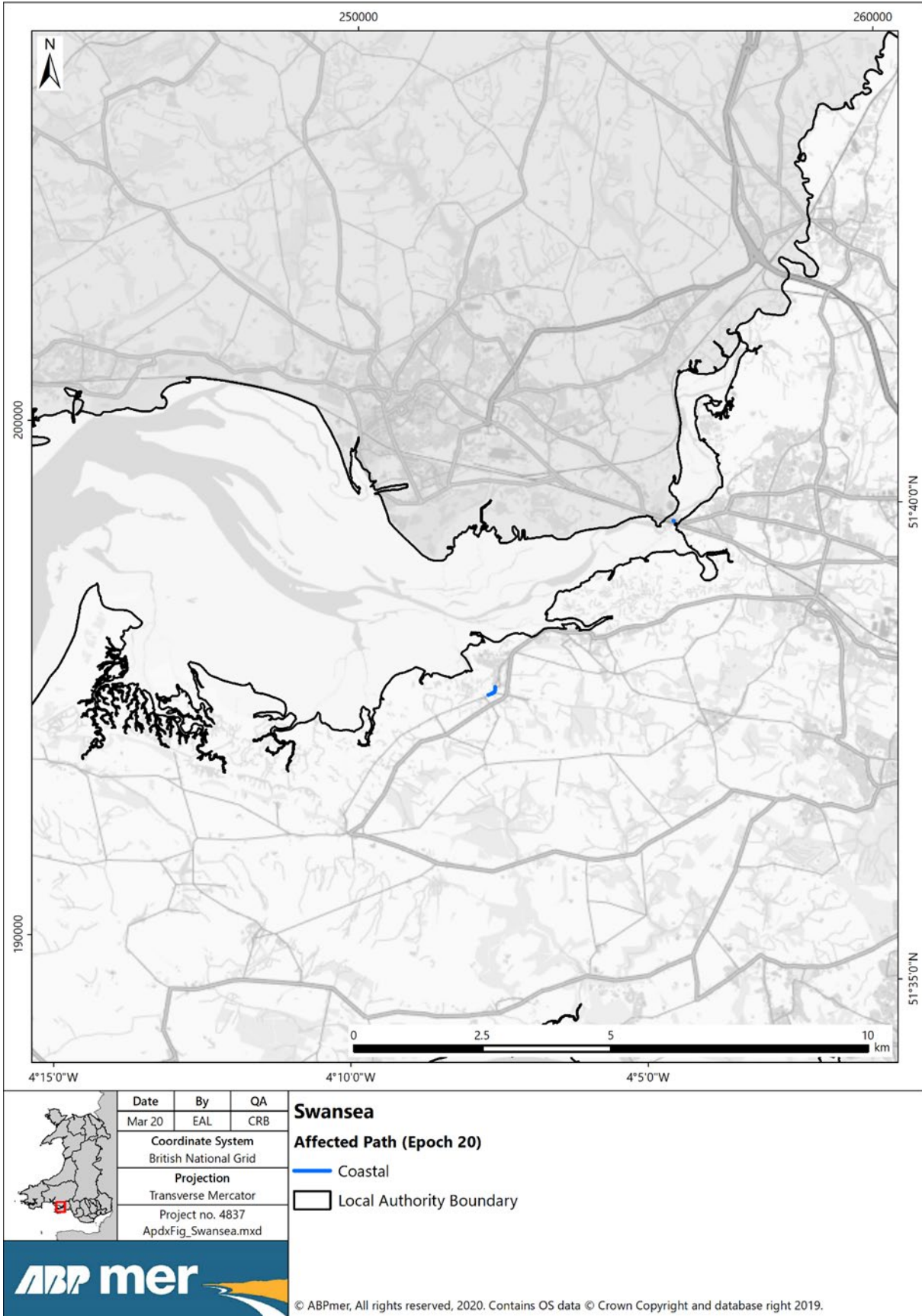


Figure B.2. 37: Affected footpaths, Epoch 20, Swansea.



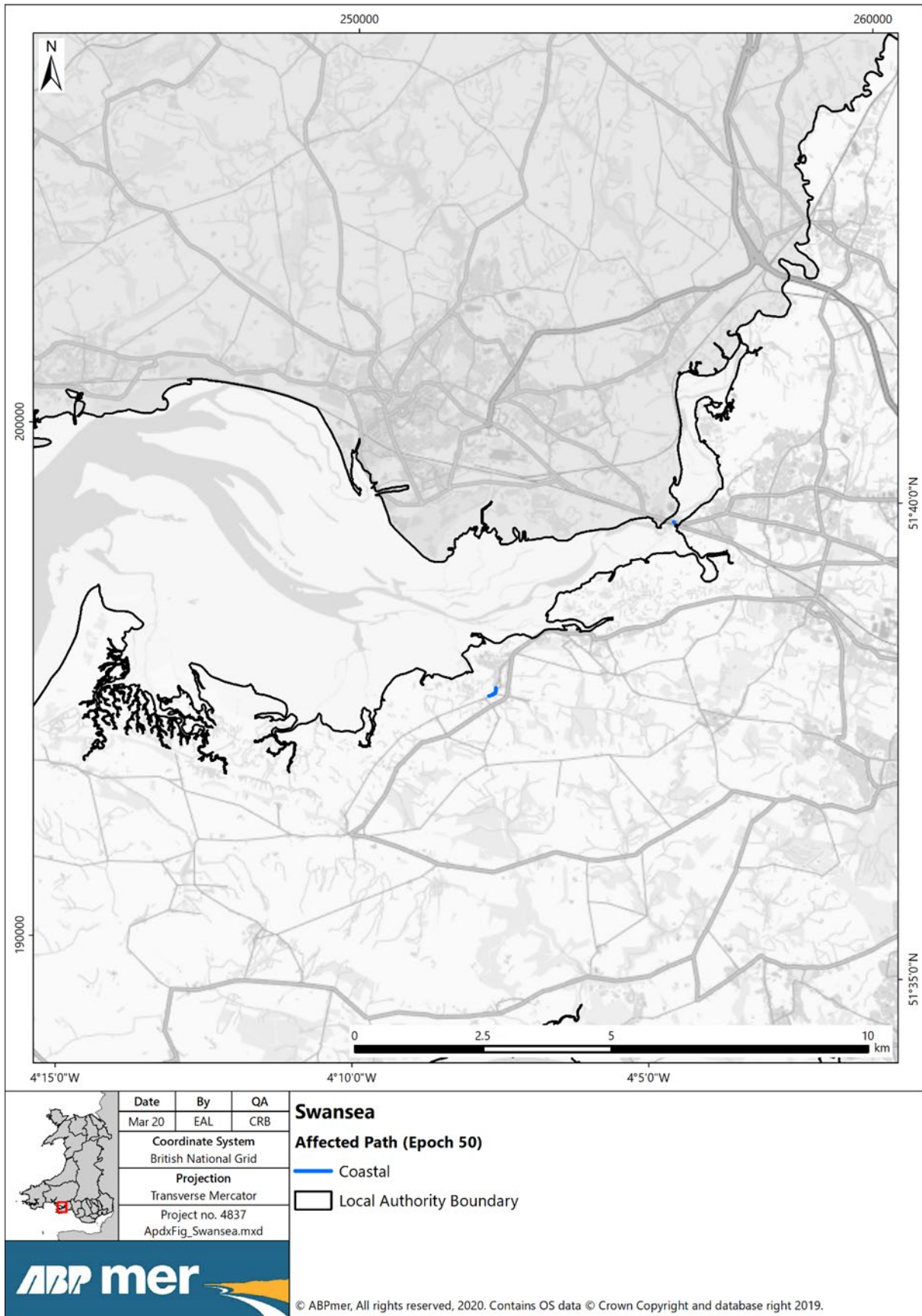


Figure B.2. 38: Affected footpaths, Epoch 50, Swansea.

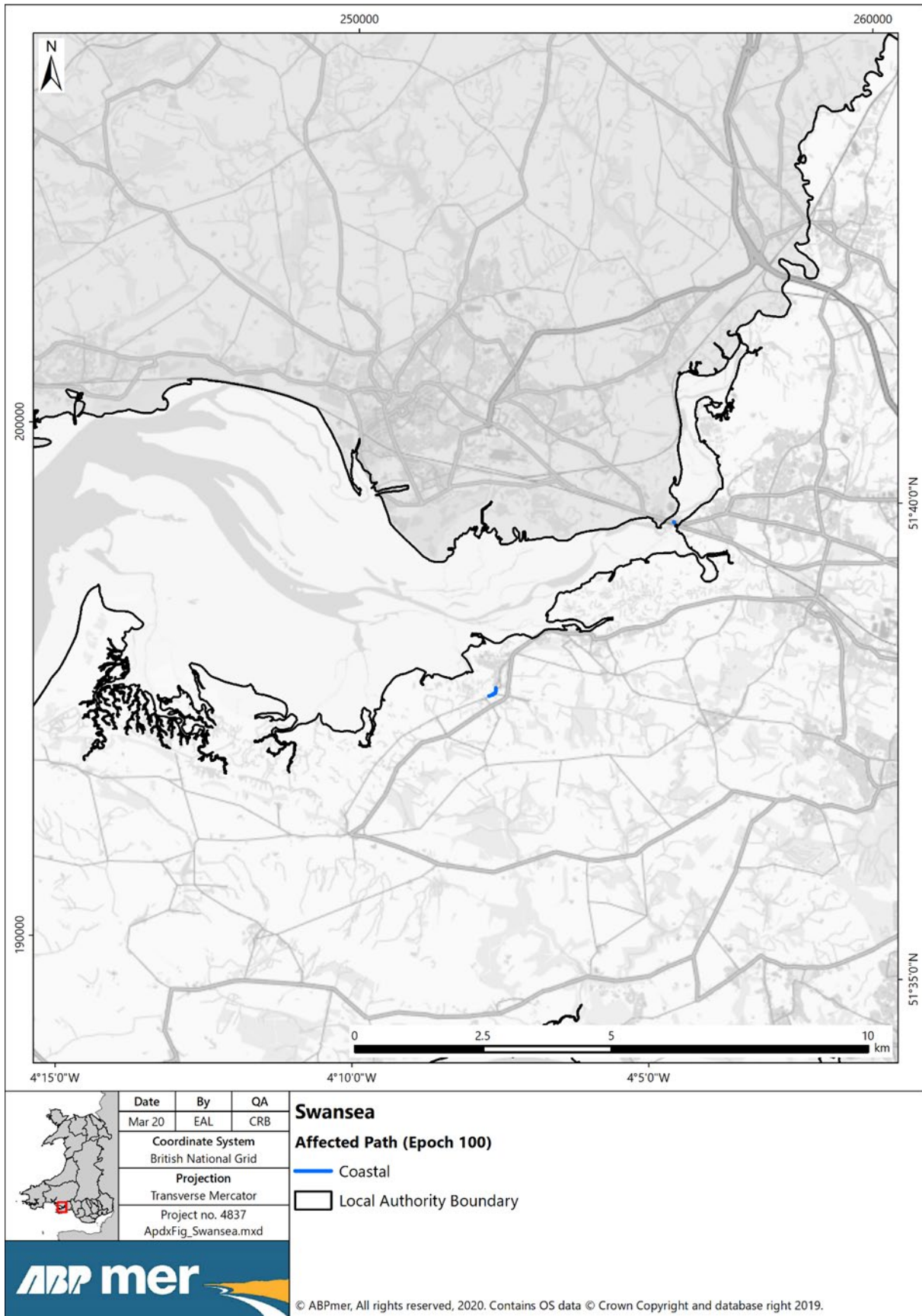


Figure B.2. 39: Affected footpaths, Epoch 100, Swansea.

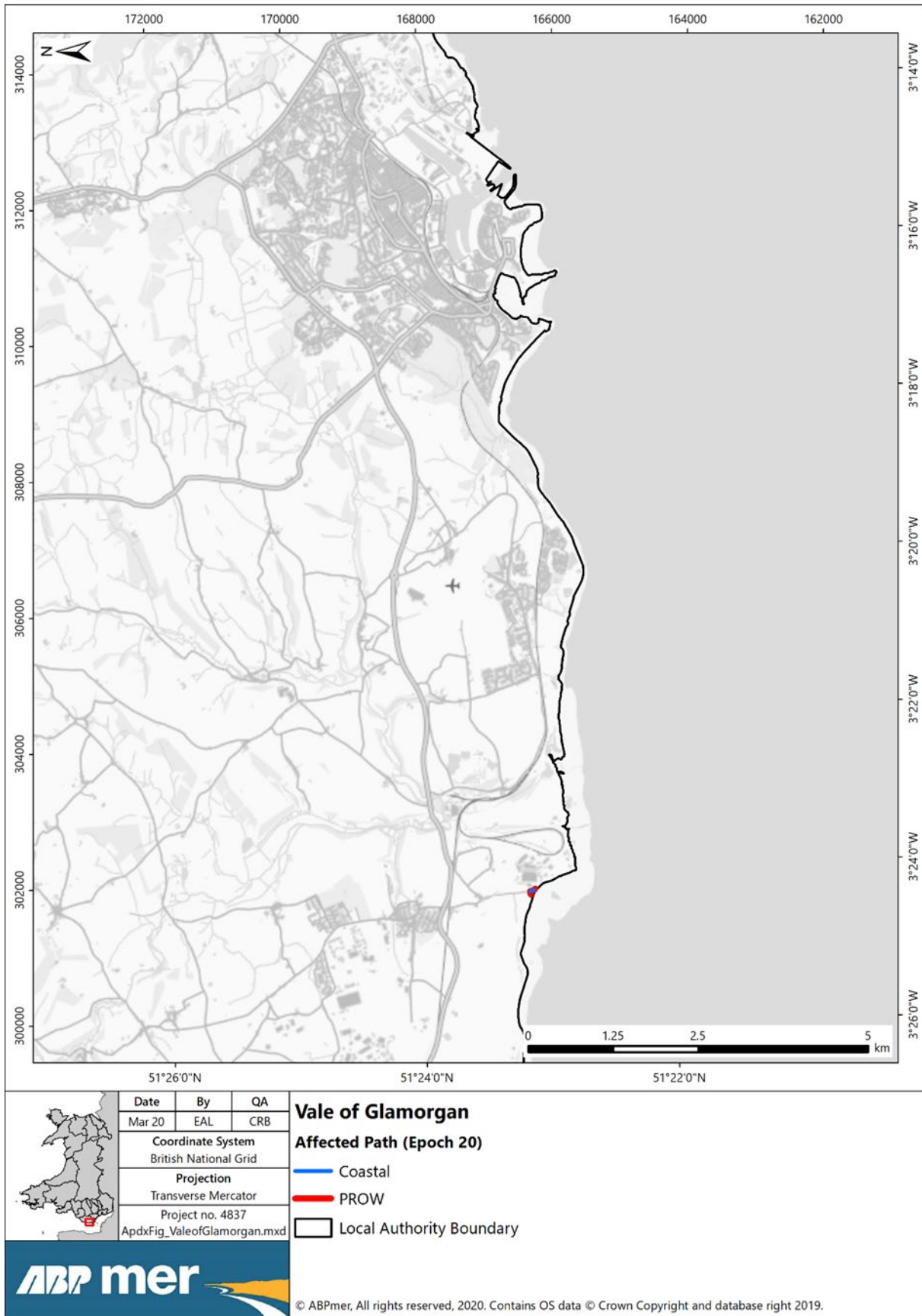


Figure B.2. 40: Affected footpaths, Epoch 20, Vale of Glamorgan.



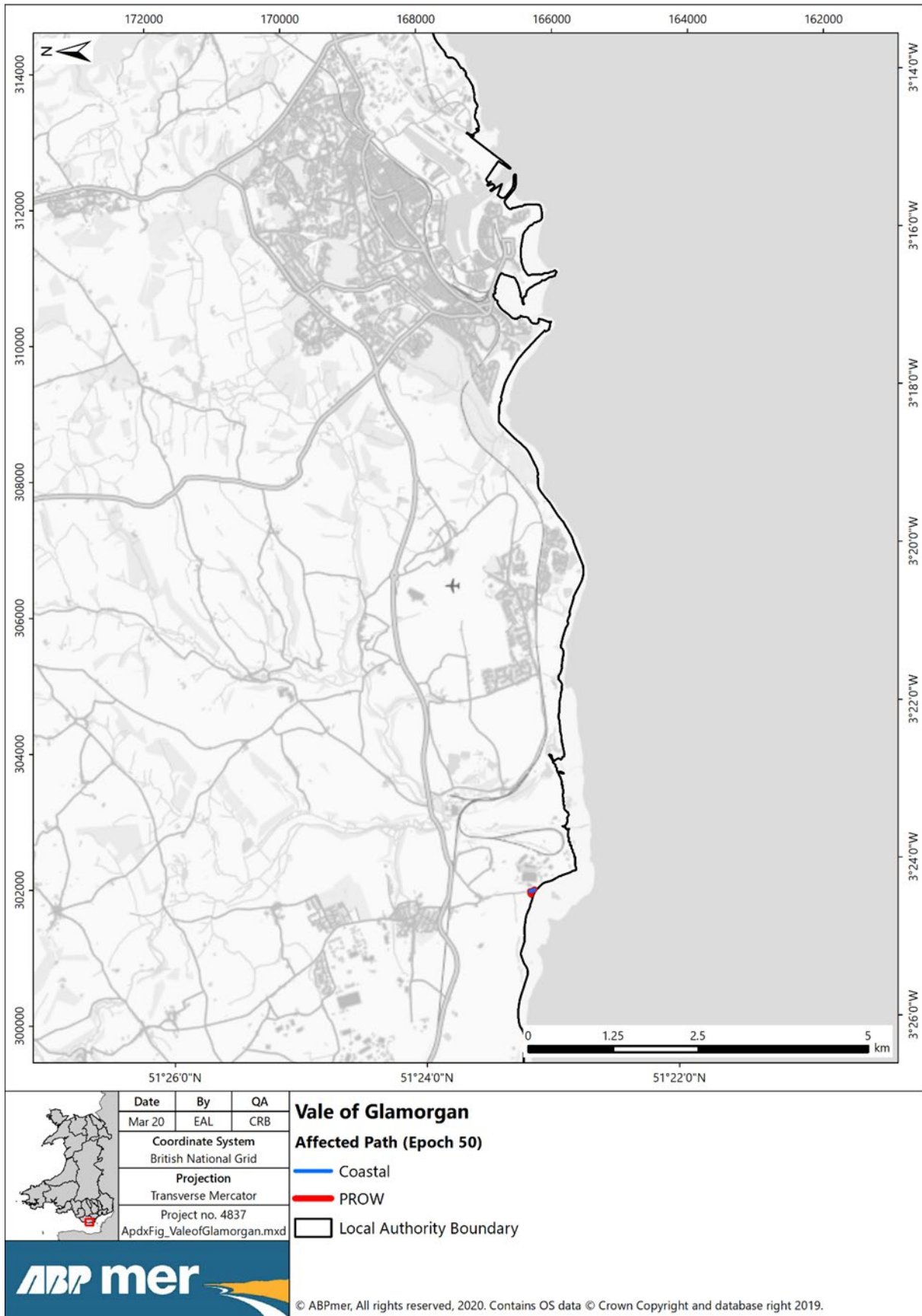


Figure B.2. 41: Affected footpaths, Epoch 50, Vale of Glamorgan.

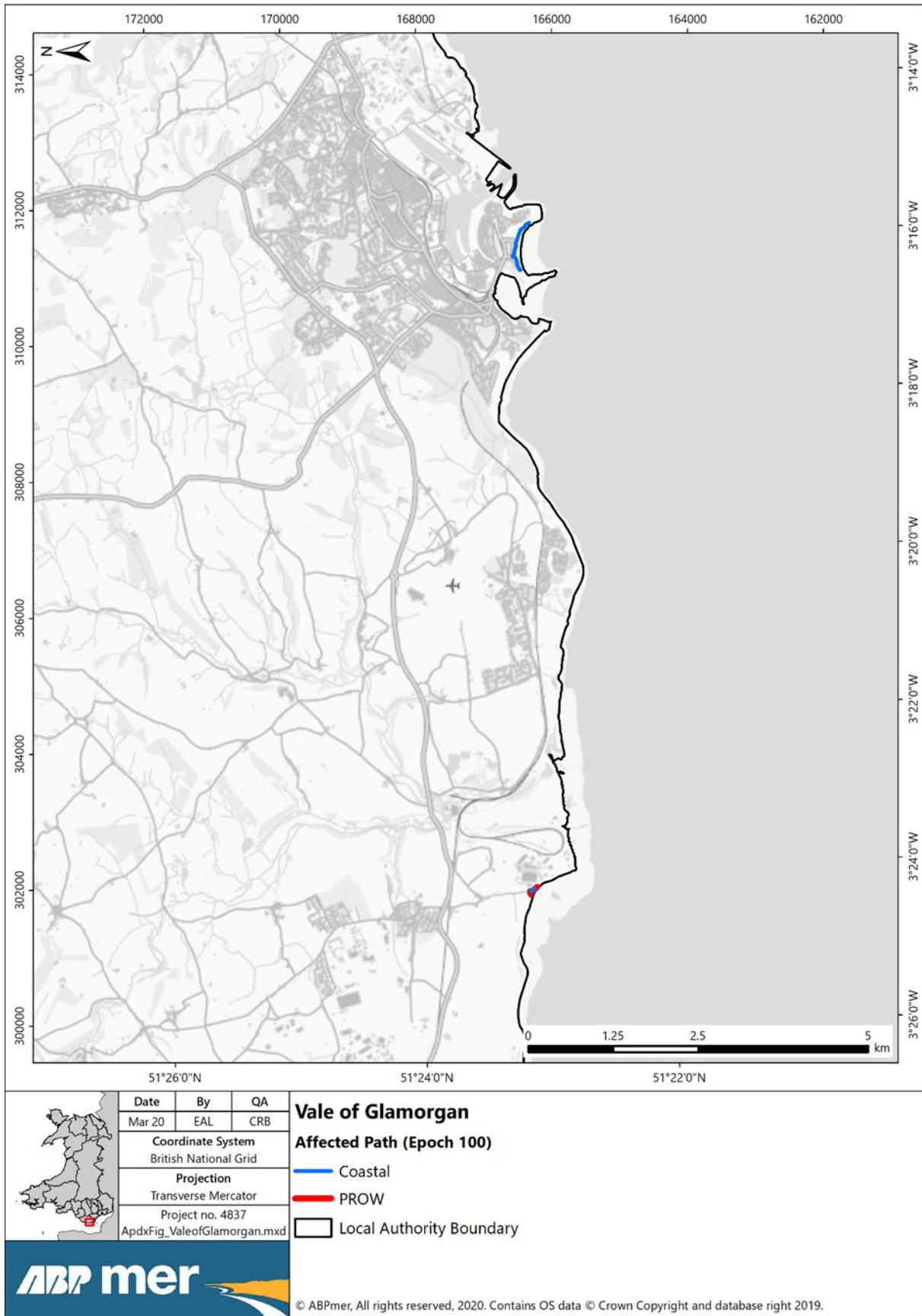


Figure B.2. 42: Affected footpaths, Epoch 100, Vale of Glamorgan.

## B.3. Tables of affected footpaths per Local Authority

**Table B.3. 1:** Bridgend – Epoch 1 (2005-2025).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1501436	PU 6.2	n/a	n/a	Coastal3	n/a	260	<500	No
WALL1500857	PU 6.2	n/a	n/a	Coastal3	n/a	165	<500	No

**Table B.3. 2:** Bridgend – Epoch 2 (2025-2055).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
WALL1500328	PU 7.1	n/a	n/a	Coastal3	n/a	329	0	No
EMB1501436	PU 6.2	n/a	n/a	Coastal3	n/a	260	<500	No
WALL1500440	PU 7.1	n/a	n/a	Coastal3	n/a	178	<500	No
WALL1500857	PU 6.2	n/a	n/a	Coastal3	n/a	165	<500	No

**Table B.3. 3:** Bridgend - Epoch 3 (2055-2105).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1501436	PU 6.2	n/a	n/a	Coastal3	n/a	260	<500	No
WALL1500328	PU 7.1	n/a	n/a	Coastal3	n/a	329	0	No
WALL1500440	PU 7.1	n/a	n/a	Coastal3	n/a	178	<500	No
WALL1500857	PU 6.2	n/a	n/a	Coastal3	n/a	165	<500	No

**Table B.3. 4:** Carmarthenshire - Epoch 1 (2005-2025).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1500804	PU 14.3	n/a	n/a	PROW26434	301/11/25/3	632	0	No
ADD131	PU 14.3	n/a	n/a	PROW26434	301/11/25/3	475	<500	Yes
ADD130	PU 14.5	PU 14.6	n/a	PROW26428	301/11/2/1	453	<500	Yes
EMB1500840	PU 12.6	n/a	n/a	Coastal6	n/a	385	0	No
EMB1501110	PU 14.11	n/a	n/a	PROW26314	497/23/25	252	0	No
ADD130	PU 14.5	PU 14.6	n/a	Coastal6	n/a	188	<500	Yes
ADD130	PU 14.5	PU 14.6	n/a	PROW26427	301/11/1	179	<500	Yes
EMB1500840	PU 12.6	n/a	n/a	PROW29503	380/36/140	174	0	No
ADD131	PU 14.3	n/a	n/a	Coastal6	n/a	144	<500	Yes
EMB1500591	PU 12.6	n/a	n/a	PROW29495	380/36/121	127	0	No
ADD72	PU 14.15	n/a	n/a	Coastal6	n/a	114	500-1000	Yes
EMB1500981	PU 14.11	n/a	n/a	PROW26310	497/23/23	77	0	No
ADD131	PU 14.3	n/a	n/a	PROW26433	301/11/25/2	30	<500	Yes
EMB1500387	PU 14.11	n/a	n/a	PROW26310	497/23/23	82	0	No
EMB1500803	PU 14.11	n/a	n/a	PROW26314	497/23/25	53	0	No
WALL1500245	PU 14.11	n/a	n/a	PROW26310	497/23/23	37	0	No
EMB1500414	PU 14.11	n/a	n/a	PROW26310	497/23/23	46	0	No
EMB1501270	PU 14.11	n/a	n/a	PROW26314	497/23/25	39	0	No
EMB1500414	PU 14.11	n/a	n/a	PROW26314	497/23/25	33	0	No
WALL1500543	PU 14.11	n/a	n/a	PROW26314	497/23/25	37	0	No
EMB1501270	PU 14.11	n/a	n/a	PROW26310	497/23/23	27	0	No
ADD131	PU 14.3	n/a	n/a	PROW26431	301/11/26/1	12	<500	Yes
WALL1500284	PU 14.11	n/a	n/a	PROW26310	497/23/23	8	0	No
WALL1500543	PU 14.11	n/a	n/a	PROW26310	497/23/23	5	0	No
ADD131	PU 14.3	n/a	n/a	PROW26432	301/11/25/1	5	<500	Yes
WALL1500903	PU 14.11	n/a	n/a	PROW26310	497/23/23	9	0	No
ADD130	PU 14.5	PU 14.6	n/a	PROW26426	301/11/2/2	1	<500	Yes

**Table B.3. 5:** Carmarthenshire - Epoch 2 (2005-2025).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1500804	PU 14.3	n/a	n/a	PROW26434	301/11/25/3	632	0	No
ADD131	PU 14.3	n/a	n/a	PROW26434	301/11/25/3	475	<500	Yes
ADD130	PU 14.5	PU 14.6	n/a	PROW26428	301/11/2/1	453	<500	Yes
EMB1500840	PU 12.6	n/a	n/a	Coastal6	n/a	385	0	No
WALL1500595	PU 12.7	n/a	n/a	PROW29504	380/36/138	231	>1000	Yes
EMB1501110	PU 14.11	n/a	n/a	PROW26314	497/23/25	252	0	No
WALL1500595	PU 12.7	n/a	n/a	Coastal6	n/a	199	>1000	Yes
WALL1500595	PU 12.7	n/a	n/a	PROW29505	380/36/132/2	197	>1000	Yes
ADD130	PU 14.5	PU 14.6	n/a	Coastal6	n/a	188	<500	Yes
ADD130	PU 14.5	PU 14.6	n/a	PROW26427	301/11/1	179	<500	Yes
EMB1500840	PU 12.6	n/a	n/a	PROW29503	380/36/140	174	0	No
ADD131	PU 14.3	n/a	n/a	Coastal6	n/a	144	<500	Yes
EMB1500591	PU 12.6	n/a	n/a	PROW29495	380/36/121	127	0	No
ADD72	PU 14.15	n/a	n/a	Coastal6	n/a	114	500-1000	Yes
EMB1500981	PU 14.11	n/a	n/a	PROW26310	497/23/23	77	0	No
ADD131	PU 14.3	n/a	n/a	PROW26433	301/11/25/2	30	<500	Yes
EMB1500387	PU 14.11	n/a	n/a	PROW26310	497/23/23	82	0	No
EMB1500803	PU 14.11	n/a	n/a	PROW26314	497/23/25	53	0	No
WALL1500245	PU 14.11	n/a	n/a	PROW26310	497/23/23	37	0	No
EMB1500414	PU 14.11	n/a	n/a	PROW26310	497/23/23	46	0	No
EMB1501270	PU 14.11	n/a	n/a	PROW26314	497/23/25	39	0	No
EMB1500414	PU 14.11	n/a	n/a	PROW26314	497/23/25	33	0	No
WALL1500543	PU 14.11	n/a	n/a	PROW26314	497/23/25	37	0	No
EMB1501270	PU 14.11	n/a	n/a	PROW26310	497/23/23	27	0	No
ADD131	PU 14.3	n/a	n/a	PROW26431	301/11/26/1	12	<500	Yes
WALL1500284	PU 14.11	n/a	n/a	PROW26310	497/23/23	8	0	No
WALL1500543	PU 14.11	n/a	n/a	PROW26310	497/23/23	5	0	No

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
ADD131	PU 14.3	n/a	n/a	PROW26432	301/11/25/1	5	<500	Yes
WALL1500903	PU 14.11	n/a	n/a	PROW26310	497/23/23	9	0	No
ADD130	PU 14.5	PU 14.6	n/a	PROW26426	301/11/2/2	1	<500	Yes



**Table B.3. 6:** Carmarthenshire - Epoch 3 (2055-2105)

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
ADD130	PU 14.5	PU 14.6	n/a	PROW26428	301/11/2/1	453	<500	Yes
ADD130	PU 14.5	PU 14.6	n/a	Coastal6	n/a	188	<500	Yes
ADD130	PU 14.5	PU 14.6	n/a	PROW26427	301/11/1	179	<500	Yes
ADD130	PU 14.5	PU 14.6	n/a	PROW26426	301/11/2/2	1	<500	Yes
ADD131	PU 14.3	n/a	n/a	PROW26434	301/11/25/3	475	<500	Yes
ADD131	PU 14.3	n/a	n/a	Coastal6	n/a	144	<500	Yes
ADD131	PU 14.3	n/a	n/a	PROW26433	301/11/25/2	30	<500	Yes
ADD131	PU 14.3	n/a	n/a	PROW26431	301/11/26/1	12	<500	Yes
ADD131	PU 14.3	n/a	n/a	PROW26432	301/11/25/1	5	<500	Yes
ADD72	PU 14.15	n/a	n/a	Coastal6	n/a	114	500-1000	Yes
EMB1500387	PU 14.11	n/a	n/a	PROW26310	497/23/23	82	0	No
EMB1500414	PU 14.11	n/a	n/a	PROW26310	497/23/23	46	0	No
EMB1500414	PU 14.11	n/a	n/a	PROW26314	497/23/25	33	0	No
EMB1500591	PU 12.6	n/a	n/a	PROW29495	380/36/121	127	0	No
EMB1500803	PU 14.11	n/a	n/a	PROW26314	497/23/25	53	0	No
EMB1500804	PU 14.3	n/a	n/a	PROW26434	301/11/25/3	632	0	No
EMB1500840	PU 12.6	n/a	n/a	Coastal6	n/a	385	0	No
EMB1500840	PU 12.6	n/a	n/a	PROW29503	380/36/140	174	0	No
EMB1500981	PU 14.11	n/a	n/a	PROW26310	497/23/23	77	0	No
EMB1501110	PU 14.11	n/a	n/a	PROW26314	497/23/25	252	0	No
EMB1501270	PU 14.11	n/a	n/a	PROW26314	497/23/25	39	0	No
EMB1501270	PU 14.11	n/a	n/a	PROW26310	497/23/23	27	0	No
WALL1500245	PU 14.11	n/a	n/a	PROW26310	497/23/23	37	0	No
WALL1500284	PU 14.11	n/a	n/a	PROW26310	497/23/23	8	0	No
WALL1500476	PU 15.2	n/a	n/a	Coastal6	n/a	252	<500	No
WALL1500476	PU 15.2	n/a	n/a	PROW24988	635/56/5	48	<500	No
WALL1500476	PU 15.2	n/a	n/a	PROW24993	635/56/O/12	25	<500	No

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
WALL1500543	PU 14.11	n/a	n/a	PROW26314	497/23/25	37	0	No
WALL1500543	PU 14.11	n/a	n/a	PROW26310	497/23/23	5	0	No
WALL1500595	PU 12.7	n/a	n/a	PROW29504	380/36/138	231	>1000	Yes
WALL1500595	PU 12.7	n/a	n/a	Coastal6	n/a	199	>1000	Yes
WALL1500595	PU 12.7	n/a	n/a	PROW29505	380/36/132/2	197	>1000	Yes
WALL1500903	PU 14.11	n/a	n/a	PROW26310	497/23/23	9	0	No

**Table B.3. 7:** Ceredigion – Epoch 1 (2005-2025).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1500650	9.2	n/a	n/a	Coastal23	n/a	668	<500	No
EMB1500650	9.2	n/a	n/a	PROW27801	24/11/16/2	641	<500	No
ADD119	8.9	n/a	n/a	Coastal23	n/a	559	<500	No
ADD114	9.5	n/a	n/a	PROW27799	324/11/10/1	309	<500	No
ADD118	9.2	n/a	n/a	Coastal23	n/a	280	>1000	Yes
ADD118	9.2	n/a	n/a	PROW27810	24/11/17	235	>1000	Yes
EMB1500940	9.2	n/a	n/a	PROW27812	24/11/16/1	175	>1000	Yes
EMB1500650	9.2	n/a	n/a	PROW27809	24/11/12/3	140	<500	No
WALL1800126	10.1	n/a	n/a	Coastal23	n/a	137	500-1000	Yes
EMB1500650	9.2	n/a	n/a	PROW27798	24/11/15	135	<500	No
EMB1500940	9.2	n/a	n/a	Coastal23	n/a	125	>1000	Yes
EMB1500940	9.2	n/a	n/a	PROW27810	24/11/17	122	>1000	Yes
ADD200	8.8	n/a	n/a	PROW27980	491/33/5	114	0	No
EMB1500650	9.2	n/a	n/a	PROW27804	24/11/13	106	<500	No
ADD200	8.8	n/a	n/a	PROW27984	491/33/31/2	89	0	No
WALL1800126	10.1	n/a	n/a	PROW29662	79/2/25	81	500-1000	Yes
ADD118	9.2	n/a	n/a	PROW27811	24/15/40	38	>1000	Yes
WALL1800126	10.1	n/a	n/a	PROW29658	79/2/22	27	500-1000	Yes
EMB1500650	9.2	n/a	n/a	PROW27810	24/11/17	20	<500	No
EMB1500650	9.2	n/a	n/a	PROW27812	24/11/16/1	19	<500	No
WALL1800126	10.1	n/a	n/a	PROW29668	79/2/24/2	15	500-1000	Yes
WALL1500969	9.5	n/a	n/a	PROW27808	24/11/14	14	0	No

**Table B.3. 8:** Ceredigion – Epoch 2 (2025-2055).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1500650	9.2	n/a	n/a	Coastal23	n/a	668	<500	No
EMB1500650	9.2	n/a	n/a	PROW27801	24/11/16/2	641	<500	No
ADD119	8.9	n/a	n/a	Coastal23	n/a	559	<500	No
ADD114	9.5	n/a	n/a	PROW27799	324/11/10/1	309	<500	No
ADD118	9.2	n/a	n/a	Coastal23	n/a	280	>1000	Yes
ADD118	9.2	n/a	n/a	PROW27810	24/11/17	235	>1000	Yes
EMB1500940	9.2	n/a	n/a	PROW27812	24/11/16/1	175	>1000	Yes
EMB1500650	9.2	n/a	n/a	PROW27809	24/11/12/3	140	<500	No
WALL1800126	10.1	n/a	n/a	Coastal23	n/a	137	500-1000	Yes
EMB1500650	9.2	n/a	n/a	PROW27798	24/11/15	135	<500	No
EMB1500940	9.2	n/a	n/a	Coastal23	n/a	125	>1000	Yes
EMB1500940	9.2	n/a	n/a	PROW27810	24/11/17	122	>1000	Yes
ADD200	8.8	n/a	n/a	PROW27980	491/33/5	114	0	No
WALL1500035	10.3	n/a	n/a	PROW29563	79/2/5	111	500-1000	Yes
EMB1500650	9.2	n/a	n/a	PROW27804	24/11/13	106	<500	No
ADD200	8.8	n/a	n/a	PROW27984	491/33/31/2	89	0	No
WALL1500035	10.3	n/a	n/a	PROW29532	79/2/4	83	500-1000	Yes
WALL1800126	10.1	n/a	n/a	PROW29662	79/2/25	81	500-1000	Yes
ADD118	9.2	n/a	n/a	PROW27811	24/15/40	38	>1000	Yes
WALL1800126	10.1	n/a	n/a	PROW29658	79/2/22	27	500-1000	Yes
EMB1500650	9.2	n/a	n/a	PROW27810	24/11/17	20	<500	No
EMB1500650	9.2	n/a	n/a	PROW27812	24/11/16/1	19	<500	No
WALL1800126	10.1	n/a	n/a	PROW29668	79/2/24/2	15	500-1000	Yes
WALL1500969	9.5	n/a	n/a	PROW27808	24/11/14	14	0	No

**Table B.3. 9:** Ceredigion – Epoch 3 (2055-2105).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
ADD114	9.5	n/a	n/a	PROW27799	324/11/10/1	309	<500	No
ADD118	9.2	n/a	n/a	Coastal23	n/a	280	>1000	Yes
ADD118	9.2	n/a	n/a	PROW27810	24/11/17	235	>1000	Yes
ADD118	9.2	n/a	n/a	PROW27811	24/15/40	38	>1000	Yes
ADD119	8.9	n/a	n/a	Coastal23	n/a	559	<500	No
ADD200	8.8	n/a	n/a	PROW27980	491/33/5	114	0	No
ADD200	8.8	n/a	n/a	PROW27984	491/33/31/2	89	0	No
EMB1500021	10.6	n/a	n/a	PROW29528	448/3/22	65	0	No
EMB1500095	10.6	n/a	n/a	PROW29527	448/5/51	138	<500	No
EMB1500095	10.6	n/a	n/a	PROW29524	79/2/2	56	<500	No
EMB1500095	10.6	n/a	n/a	PROW29522	448/5/43	4	<500	No
EMB1500109	10.6	n/a	n/a	PROW29528	448/3/22	194	>1000	No
EMB1500522	10.6	n/a	n/a	PROW29562	79/2/29	1775	500-1000	Yes
EMB1500522	10.6	n/a	n/a	PROW29612	79/2/28	1299	500-1000	Yes
EMB1500522	10.6	n/a	n/a	Coastal23	n/a	350	500-1000	Yes
EMB1500522	10.6	n/a	n/a	PROW29628	245/5/41	132	500-1000	Yes
EMB1500522	10.6	n/a	n/a	PROW29618	79/2/30/1	131	500-1000	Yes
EMB1500522	10.6	n/a	n/a	PROW29563	79/2/5	137	500-1000	Yes
EMB1500522	10.6	n/a	n/a	PROW29635	79/2/27	69	500-1000	Yes
EMB1500522	10.6	n/a	n/a	PROW29615	245/2/32	34	500-1000	Yes
EMB1500650	9.2	n/a	n/a	Coastal23	n/a	668	<500	No
EMB1500650	9.2	n/a	n/a	PROW27801	24/11/16/2	641	<500	No
EMB1500650	9.2	n/a	n/a	PROW27809	24/11/12/3	140	<500	No
EMB1500650	9.2	n/a	n/a	PROW27798	24/11/15	135	<500	No
EMB1500650	9.2	n/a	n/a	PROW27804	24/11/13	106	<500	No
EMB1500650	9.2	n/a	n/a	PROW27810	24/11/17	20	<500	No
EMB1500650	9.2	n/a	n/a	PROW27812	24/11/16/1	19	<500	No



Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1500772	10.6	n/a	n/a	PROW29528	448/3/22	1467	>1000	No
EMB1500810	10.6	n/a	n/a	PROW29521	79/2/3	64	<500	No
EMB1500814	10.6	n/a	n/a	PROW29562	79/2/29	1817	500-1000	Yes
EMB1500814	10.6	n/a	n/a	PROW29612	79/2/28	1299	500-1000	Yes
EMB1500814	10.6	n/a	n/a	PROW29661	79/2/26	806	500-1000	Yes
EMB1500814	10.6	n/a	n/a	PROW29635	79/2/27	571	500-1000	Yes
EMB1500814	10.6	n/a	n/a	Coastal23	n/a	432	500-1000	Yes
EMB1500814	10.6	n/a	n/a	PROW29636	79/2/31	178	500-1000	Yes
EMB1500814	10.6	n/a	n/a	PROW29628	245/5/41	218	500-1000	Yes
EMB1500814	10.6	n/a	n/a	PROW29618	79/2/30/1	92	500-1000	Yes
EMB1500814	10.6	n/a	n/a	PROW29563	79/2/5	76	500-1000	Yes
EMB1500814	10.6	n/a	n/a	PROW29527	448/5/51	61	500-1000	Yes
EMB1500814	10.6	n/a	n/a	PROW29615	245/2/32	34	500-1000	Yes
EMB1500940	9.2	n/a	n/a	PROW27812	24/11/16/1	175	>1000	Yes
EMB1500940	9.2	n/a	n/a	Coastal23	n/a	125	>1000	Yes
EMB1500940	9.2	n/a	n/a	PROW27810	24/11/17	122	>1000	Yes
EMB1500996	10.6	n/a	n/a	PROW29521	79/2/3	273	500-1000	Yes
EMB1500996	10.6	n/a	n/a	PROW29522	448/5/43	174	500-1000	Yes
EMB1501215	10.6	n/a	n/a	PROW29522	448/5/43	273	0	No
EMB1501215	10.6	n/a	n/a	PROW29521	79/2/3	143	0	No
EMB1501340	10.6	n/a	n/a	PROW29528	448/3/22	1494	>1000	Yes
EMB1501362	10.6	n/a	n/a	PROW29522	448/5/43	109	<500	No
WALL1500035	10.3	n/a	n/a	PROW29563	79/2/5	111	500-1000	Yes
WALL1500035	10.3	n/a	n/a	PROW29532	79/2/4	83	500-1000	Yes
WALL1500104	10.2	n/a	n/a	Coastal23	n/a	625	500-1000	Yes
WALL1500104	10.2	n/a	n/a	PROW29611	79/2/10	58	500-1000	Yes
WALL1500104	10.2	n/a	n/a	PROW29607	79/2/9	45	500-1000	Yes
WALL1500104	10.2	n/a	n/a	PROW29631	79/2/15	34	500-1000	Yes
WALL1500104	10.2	n/a	n/a	PROW29641	79/2/17	32	500-1000	Yes

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
WALL1500104	10.2	n/a	n/a	PROW29637	79/2/16	27	500-1000	Yes
WALL1500104	10.2	n/a	n/a	PROW29627	79/2/14	27	500-1000	Yes
WALL1500104	10.2	n/a	n/a	PROW29622	79/2/13	27	500-1000	Yes
WALL1500104	10.2	n/a	n/a	PROW29642	79/2/18	24	500-1000	Yes
WALL1500104	10.2	n/a	n/a	PROW29620	79/2/11	21	500-1000	Yes
WALL1500104	10.2	n/a	n/a	PROW29621	79/2/12	16	500-1000	Yes
WALL1500104	10.2	n/a	n/a	PROW29644	79/2/19	9	500-1000	Yes
WALL1500304	9.4	n/a	n/a	Coastal23	n/a	169	0	No
WALL1500427	10.2	n/a	n/a	Coastal23	n/a	356	500-1000	Yes
WALL1500427	10.2	n/a	n/a	PROW29655	79/2/21	136	500-1000	Yes
WALL1500427	10.2	n/a	n/a	PROW29647	79/2/20	40	500-1000	Yes
WALL1500427	10.2	n/a	n/a	PROW29658	79/2/22	12	500-1000	Yes
WALL1500711	10.2	n/a	n/a	Coastal23	n/a	232	500-1000	Yes
WALL1500711	10.2	n/a	n/a	PROW29599	79/2/7	61	500-1000	Yes
WALL1500711	10.2	n/a	n/a	PROW29602	79/2/8	52	500-1000	Yes
WALL1500711	10.2	n/a	n/a	PROW29617	79/2/30/2	51	500-1000	Yes
WALL1500711	10.2	n/a	n/a	PROW29607	79/2/9	50	500-1000	Yes
WALL1500969	9.5	n/a	n/a	PROW27808	24/11/14	14	0	No
WALL1800126	10.2	n/a	n/a	PROW29662	79/2/25	81	500-1000	Yes
WALL1800126	10.2	n/a	n/a	Coastal23	n/a	137	500-1000	Yes
WALL1800126	10.2	n/a	n/a	PROW29668	79/2/24/2	15	500-1000	Yes
WALL1800126	10.2	n/a	n/a	PROW29658	79/2/22	27	500-1000	Yes

**Table B.3. 10:** Conwy – Epoch 1 (2005-2025).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1500046	16.32	n/a	n/a	Coastal7	n/a	785	<500	No
WALL1500731	11a PU1.1	n/a	n/a	Coastal7	n/a	664	0	No
EMB1500046	16.32	n/a	n/a	PROW15228	399/1/2	570	<500	No
EMB1501456	16.32	n/a	n/a	PROW15266	399/1/1	567	<500	No
EMB1501456	16.32	n/a	n/a	Coastal7	n/a	566	<500	No
WALL1500731	11a PU1.1	n/a	n/a	PROW16956	363/89/3	244	0	No
EMB1500046	16.32	n/a	n/a	PROW15266	399/1/1	216	<500	No
WALL1500731	11a PU1.1	n/a	n/a	PROW16955	363/90/1	84	0	No
WALL1500731	11a PU1.1	n/a	n/a	PROW16954	363/90/2	73	0	No
WALL1500731	11a PU1.1	n/a	n/a	PROW16953	363/92	72	0	No
WALL1500731	11a PU1.1	n/a	n/a	PROW16951	363/89/2	65	0	No
WALL1500731	11a PU1.1	n/a	n/a	PROW16957	363/91	64	0	No
WALL1500731	11a PU1.1	n/a	n/a	PROW16941	363/88/1	47	0	No
WALL1500731	11a PU1.1	n/a	n/a	PROW16958	363/89/4	42	0	No

**Table B.3. 11:** Conwy – Epoch 2 (2025-2055).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1501502	20.19	n/a	n/a	PROW17723	792/1	1453	500-1000	Yes
EMB1501237	20.19	n/a	n/a	PROW17675	348/31	3267	500-1000	Yes
EMB1500819	20.19	n/a	n/a	PROW17675	348/31	958	<500	No
EMB1500893	11a PU3.2	n/a	n/a	PROW4765	304/17/2	898	>1000	Yes
EMB1500046	16.32	n/a	n/a	Coastal7	n/a	785	<500	No
WALL1500731	11a PU1.1	n/a	n/a	Coastal7	n/a	664	0	No
EMB1501253	20.19	n/a	n/a	PROW17675	348/31	604	<500	No
EMB1500046	16.32	n/a	n/a	PROW15228	399/1/2	570	<500	No
EMB1501456	16.32	n/a	n/a	PROW15266	399/1/1	567	<500	No
EMB1501456	16.32	n/a	n/a	Coastal7	n/a	566	<500	No
EMB1501328	20.19	n/a	n/a	PROW17683	792/2/4	744	<500	Yes
EMB1501059	20.19	n/a	n/a	PROW17615	208/14	469	>1000	Yes
EMB1501410	20.19	n/a	n/a	PROW17615	208/14	715	>1000	Yes
EMB1501410	20.19	n/a	n/a	PROW17611	208/1	596	>1000	Yes
EMB1500893	11a PU3.2	n/a	n/a	PROW4757	304/17/1	262	>1000	Yes
WALL1500731	11a PU1.1	n/a	n/a	PROW16956	363/89/3	244	0	No
EMB1501031	20.19	n/a	n/a	PROW17683	792/2/4	227	>1000	Yes
EMB1501031	20.19	n/a	n/a	PROW17675	348/31	259	>1000	Yes
EMB1500046	16.32	n/a	n/a	PROW15266	399/1/1	216	<500	No
EMB1501059	20.19	n/a	n/a	PROW17611	208/1	312	>1000	Yes
EMB1501237	20.19	n/a	n/a	PROW17688	792/2/3	203	500-1000	Yes
EMB1501502	20.19	n/a	n/a	PROW17688	792/2/3	346	500-1000	Yes
EMB1501502	20.19	n/a	n/a	PROW17675	348/31	238	500-1000	Yes
EMB1501328	20.19	n/a	n/a	PROW17684	792/3/3	196	<500	Yes
EMB1501031	20.19	n/a	n/a	PROW17686	792/2/1	345	>1000	Yes
EMB1501328	20.19	n/a	n/a	PROW17686	792/2/1	348	<500	Yes
EMB1501237	20.19	n/a	n/a	PROW17686	792/2/1	226	500-1000	Yes

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
WALL1500731	11a PU1.1	n/a	n/a	PROW16955	363/90/1	84	0	No
WALL1500731	11a PU1.1	n/a	n/a	PROW16954	363/90/2	73	0	No
WALL1500731	11a PU1.1	n/a	n/a	PROW16953	363/92	72	0	No
EMB1501502	20.19	n/a	n/a	PROW17689	792/15/3	134	500-1000	Yes
EMB1500535	20.19	n/a	n/a	PROW17611	208/1	97	500-1000	Yes
WALL1500731	11a PU1.1	n/a	n/a	PROW16951	363/89/2	65	0	No
WALL1500731	11a PU1.1	n/a	n/a	PROW16957	363/91	64	0	No
EMB1501237	20.19	n/a	n/a	PROW17689	792/15/3	63	500-1000	Yes
EMB1500535	20.19	n/a	n/a	PROW17615	208/14	92	500-1000	Yes
EMB1500893	11a PU3.2	n/a	n/a	PROW4756	304/17/3	55	>1000	Yes
HG GRD1508561	20.19	n/a	n/a	PROW17615	208/14	55	>1000	No
WALL1500731	11a PU1.1	n/a	n/a	PROW16941	363/88/1	47	0	No
EMB1501502	20.19	n/a	n/a	PROW17686	792/2/1	46	500-1000	Yes
WALL1500731	11a PU1.1	n/a	n/a	PROW16958	363/89/4	42	0	No
EMB1501197	20.19	n/a	n/a	PROW17615	208/14	31	<500	No
EMB1501197	20.19	n/a	n/a	PROW17611	208/1	30	<500	No
EMB1501328	20.19	n/a	n/a	PROW17687	792/2/2	13	<500	Yes
EMB1501328	20.19	n/a	n/a	PROW17673	792/14	10	<500	Yes



**Table B.3. 12:** Conwy – Epoch 3 (2055-2105).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1500046	16.33	n/a	n/a	Coastal7	n/a	134	<500	No
EMB1500046	16.33	n/a	n/a	PROW15228	399/1/2	131	<500	No
EMB1500535	20.19	n/a	n/a	PROW17611	208/1	97	500-1000	Yes
EMB1500535	20.19	n/a	n/a	PROW17615	208/14	92	500-1000	Yes
EMB1500579	20.8	n/a	n/a	Coastal7	n/a	767	0	No
EMB1500586	20.8	n/a	n/a	Coastal7	n/a	62	0	No
EMB1500819	20.19	n/a	n/a	PROW17675	348/31	958	<500	No
EMB1500893	11a PU3.2	n/a	n/a	PROW4765	304/17/2	898	>1000	Yes
EMB1500893	11a PU3.2	n/a	n/a	PROW4757	304/17/1	262	>1000	Yes
EMB1500893	11a PU3.2	n/a	n/a	PROW4756	304/17/3	55	>1000	Yes
EMB1501031	20.19	n/a	n/a	PROW17683	792/2/4	227	>1000	Yes
EMB1501031	20.19	n/a	n/a	PROW17675	348/31	259	>1000	Yes
EMB1501031	20.19	n/a	n/a	PROW17686	792/2/1	345	>1000	Yes
EMB1501059	20.19	n/a	n/a	PROW17615	208/14	469	>1000	Yes
EMB1501059	20.19	n/a	n/a	PROW17611	208/1	312	>1000	Yes
EMB1501197	20.19	n/a	n/a	PROW17615	208/14	31	<500	No
EMB1501197	20.19	n/a	n/a	PROW17611	208/1	30	<500	No
EMB1501237	20.19	n/a	n/a	PROW17675	348/31	3267	500-1000	Yes
EMB1501237	20.19	n/a	n/a	PROW17688	792/2/3	203	500-1000	Yes
EMB1501237	20.19	n/a	n/a	PROW17686	792/2/1	226	500-1000	Yes
EMB1501237	20.19	n/a	n/a	PROW17689	792/15/3	63	500-1000	Yes
EMB1501253	20.19	n/a	n/a	PROW17675	348/31	604	<500	No
EMB1501328	20.19	n/a	n/a	PROW17683	792/2/4	744	<500	Yes
EMB1501328	20.19	n/a	n/a	PROW17684	792/3/3	196	<500	Yes
EMB1501328	20.19	n/a	n/a	PROW17686	792/2/1	348	<500	Yes
EMB1501328	20.19	n/a	n/a	PROW17687	792/2/2	13	<500	Yes
EMB1501328	20.19	n/a	n/a	PROW17673	792/14	10	<500	Yes

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1501410	20.19	n/a	n/a	PROW17615	208/14	715	>1000	Yes
EMB1501410	20.19	n/a	n/a	PROW17611	208/1	596	>1000	Yes
EMB1501502	20.19	n/a	n/a	PROW17723	792/1	1453	500-1000	Yes
EMB1501502	20.19	n/a	n/a	PROW17688	792/2/3	346	500-1000	Yes
EMB1501502	20.19	n/a	n/a	PROW17675	348/31	238	500-1000	Yes
EMB1501502	20.19	n/a	n/a	PROW17689	792/15/3	134	500-1000	Yes
EMB1501502	20.19	n/a	n/a	PROW17686	792/2/1	46	500-1000	Yes
EMB1501508	20.8	n/a	n/a	Coastal7	n/a	74	0	No
HG GRD1508561	20.19	n/a	n/a	PROW17615	208/14	55	>1000	No
HG GRD1513200	20.8	n/a	n/a	Coastal7	n/a	694	0	No
WALL1500227	20.3	n/a	n/a	Coastal7	n/a	68	0	No
WALL1500312	16.33	n/a	n/a	Coastal7	n/a	28	<500	No
WALL1500396	20.8	n/a	n/a	Coastal7	n/a	675	0	No
WALL1500557	16.33	n/a	n/a	Coastal7	n/a	168	<500	Yes
WALL1500557	16.33	n/a	n/a	PROW15228	399/1/2	15	<500	Yes
WALL1500703	16.33	n/a	n/a	Coastal7	n/a	96	<500	No
WALL1500731	11a PU1.1	n/a	n/a	Coastal7	n/a	664	0	No
WALL1500731	11a PU1.1	n/a	n/a	PROW16956	363/89/3	244	0	No
WALL1500731	11a PU1.1	n/a	n/a	PROW16955	363/90/1	84	0	No
WALL1500731	11a PU1.1	n/a	n/a	PROW16954	363/90/2	73	0	No
WALL1500731	11a PU1.1	n/a	n/a	PROW16953	363/92	72	0	No
WALL1500731	11a PU1.1	n/a	n/a	PROW16951	363/89/2	65	0	No
WALL1500731	11a PU1.1	n/a	n/a	PROW16957	363/91	64	0	No
WALL1500731	11a PU1.1	n/a	n/a	PROW16941	363/88/1	47	0	No
WALL1500731	11a PU1.1	n/a	n/a	PROW16958	363/89/4	42	0	No
WALL1500805	20.11	n/a	n/a	Coastal7	n/a	708	0	No
WALL1500820	16.33	n/a	n/a	Coastal7	n/a	89	<500	No

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
WALL1500887	20.9	20.8	n/a	Coastal7	n/a	718	<500	No
WALL1500887	20.9	n/a	n/a	PROW17002	164/42	64	<500	No
WALL1500887	20.8	20.9	n/a	PROW16986	164/41	15	<500	No
WALL1500901	16.33	n/a	n/a	Coastal7	n/a	218	<500	No
WALL1500901	16.33	n/a	n/a	PROW15228	399/1/2	217	<500	No
WALL1504550	16.33	n/a	n/a	Coastal7	n/a	191	<500	No
WALL1504550	16.33	n/a	n/a	PROW15228	399/1/2	127	<500	No

**Table B.3. 13:** Denbighshire – Epoch 1 (2005-2025).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
WALL1500602	11a PU4.4	n/a	n/a	Coastal9	n/a	159	0	No
WALL1800136	11a PU4.4	n/a	n/a	Coastal21	n/a	153	0	No
EMB1800001	11a PU4.4	n/a	n/a	PROW61149	682/25/3	120	<500	No
WALL1800136	11a PU4.4	n/a	n/a	Coastal9	n/a	88	0	No
EMB1800001	11a PU4.4	n/a	n/a	Coastal9	n/a	79	<500	No
ADD7	11a PU4.4	n/a	n/a	Coastal9	n/a	63	<500	No
WALL1500602	11a PU4.4	n/a	n/a	PROW61154	682/28	39	0	No

**Table B.3. 14:** Denbighshire – Epoch 2 (2025-2055).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1501083	11a PU3.2	n/a	n/a	PROW61094	72/12	1682	>1000	Yes
EMB1500849	11a PU3.3	n/a	n/a	PROW61340	704/30	814	<500	No
EMB1500552	11a PU3.3	n/a	n/a	PROW61093	705/16	586	0	No
EMB1501517	11a PU3.3	n/a	n/a	PROW61340	704/30	317	500-1000	Yes
EMB1500713	11a PU3.3	n/a	n/a	PROW61358	704/29	835	<500	No
ADD175	11a PU3.3	n/a	n/a	PROW61341	704/31	340	500-1000	Yes
WALL1500602	11a PU4.4	n/a	n/a	Coastal9	n/a	159	0	No
WALL1800136	11a PU4.4	n/a	n/a	Coastal21	n/a	153	0	No
WALL1500214	11a PU3.3	n/a	n/a	PROW61358	704/29	309	0	No
EMB1501355	11a PU3.2	n/a	n/a	PROW61094	72/12	120	0	No
EMB1800001	11a PU4.4	n/a	n/a	PROW61149	682/25/3	120	<500	No
ADD175	11a PU3.3	n/a	n/a	PROW61358	704/29	139	500-1000	Yes
EMB1501355	11a PU3.3	n/a	n/a	PROW61358	704/29	201	0	No
WALL1800136	11a PU4.4	n/a	n/a	Coastal9	n/a	88	0	No
EMB1500713	11a PU3.3	n/a	n/a	PROW61341	704/31	135	<500	No
EMB1500896	11a PU3.3	n/a	n/a	PROW61358	704/29	82	<500	No
EMB1800001	11a PU4.4	n/a	n/a	Coastal9	n/a	79	<500	No
EMB1500809	11a PU3.3	n/a	n/a	PROW61093	705/16	68	<500	No
ADD7	11a PU4.4	n/a	n/a	Coastal9	n/a	63	<500	No
EMB1500849	11a PU3.3	n/a	n/a	PROW61093	705/16	59	<500	No
EMB1501517	11a PU3.3	n/a	n/a	PROW61341	704/31	85	500-1000	Yes
EMB1501517	11a PU3.3	n/a	n/a	PROW61358	704/29	65	500-1000	Yes
WALL1500602	11a PU4.4	n/a	n/a	PROW61154	682/28	39	0	No



**Table B.3. 15:** Denbighshire – Epoch 3 (2055-2105)

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
ADD175	11a PU3.3	n/a	n/a	PROW61341	704/31	340	500-1000	Yes
ADD175	11a PU3.3	n/a	n/a	PROW61358	704/29	139	500-1000	Yes
ADD7	11a PU4.4	n/a	n/a	Coastal9	n/a	63	<500	No
EMB1500552	11a PU3.3	n/a	n/a	PROW61093	705/16	586	0	No
EMB1500713	11a PU3.3	n/a	n/a	PROW61358	704/29	754	<500	No
EMB1500713	11a PU3.3	n/a	n/a	PROW61341	704/31	135	<500	No
EMB1500713	11a PU3.2	11a PU3.3	n/a	PROW61358	704/29	82	<500	No
EMB1500809	11a PU3.3	n/a	n/a	PROW61093	705/16	68	<500	No
EMB1500849	11a PU3.3	n/a	n/a	PROW61340	704/30	814	<500	No
EMB1500849	11a PU3.3	n/a	n/a	PROW61093	705/16	59	<500	No
EMB1500896	11a PU3.3	n/a	n/a	PROW61358	704/29	82	<500	No
EMB1501083	11a PU3.2	n/a	n/a	PROW61094	72/12	1682	>1000	Yes
EMB1501355	11a PU3.2	11a PU3.3	n/a	PROW61094	72/12	120	0	No
EMB1501355	11a PU3.2	11a PU3.3	n/a	PROW61358	704/29	109	0	No
EMB1501355	11a PU3.3	n/a	n/a	PROW61358	704/29	92	0	No
EMB1501517	11a PU3.3	n/a	n/a	PROW61340	704/30	317	500-1000	Yes
EMB1501517	11a PU3.3	n/a	n/a	PROW61341	704/31	85	500-1000	Yes
EMB1501517	11a PU3.3	n/a	n/a	PROW61358	704/29	65	500-1000	Yes
EMB1800001	11a PU4.4	n/a	n/a	PROW61149	682/25/3	120	<500	No
EMB1800001	11a PU4.4	n/a	n/a	Coastal9	n/a	79	<500	No
WALL1500214	11a PU3.3	n/a	n/a	PROW61358	704/29	227	0	No
WALL1500214	11a PU3.2	11a PU3.3	n/a	PROW61358	704/29	82	0	No
WALL1500602	11a PU4.4	n/a	n/a	Coastal9	n/a	159	0	No
WALL1500602	11a PU4.4	n/a	n/a	PROW61154	682/28	39	0	No
WALL1800136	11a PU4.4	n/a	n/a	Coastal21	n/a	153	0	No
WALL1800136	11a PU4.4	n/a	n/a	Coastal9	n/a	88	0	No

**Table B.3. 16:** Flintshire - Epoch 1 (2005-2025)

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1500386	11a PU4.4	n/a	n/a	PROW5934	323/27/1	174	0	No
EMB1500386	11a PU4.4	n/a	n/a	Coastal10	n/a	134	0	No

**Table B.3. 17:** Flintshire – Epoch 2 (2025-2055).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1501075	11a PU5.2	n/a	n/a	Coastal10	n/a	3251	0	No
EMB1501321	11a PU5.2	n/a	n/a	Coastal10	n/a	1896	<500	Yes
EMB1501135	11a PU5.2	n/a	n/a	Coastal10	n/a	1523	<500	Yes
EMB1501075	11a PU5.2	n/a	n/a	PROW1	292/38/2	1559	0	No
EMB1501321	11a PU5.2	n/a	n/a	PROW56	36/77/1	1337	<500	Yes
EMB1501075	11a PU5.2	n/a	n/a	PROW6183	576/70/1	1277	0	No
EMB1501135	11a PU5.2	n/a	n/a	PROW6145	576/69/1	960	<500	Yes
EMB1501098	11a PU5.2	n/a	n/a	Coastal10	n/a	930	<500	Yes
EMB1501098	11a PU5.2	n/a	n/a	PROW7	36/76/1	910	<500	Yes
EMB1500420	11a PU5.2	n/a	n/a	Coastal10	n/a	1288	0	No
EMB1500420	11a PU5.2	n/a	n/a	PROW3	292/39	1016	0	No
EMB1501135	11a PU5.2	n/a	n/a	PROW6062	576/102A	557	<500	Yes
EMB1501321	11a PU5.2	n/a	n/a	PROW26	36/77/2	557	<500	Yes
EMB1501178	11a PU5.2	n/a	n/a	Coastal10	n/a	790	<500	No
EMB1501075	11a PU5.2	n/a	n/a	Coastal26	n/a	336	0	No
EMB1501211	11a PU5.2	n/a	n/a	Coastal10	n/a	474	0	No
ADD91	11a PU5.2	n/a	n/a	Coastal10	n/a	253	<500	No
EMB1500551	11a PU5.2	n/a	n/a	PROW6098	576/69/3	257	0	No
EMB1500551	11a PU5.2	n/a	n/a	Coastal26	n/a	257	0	No
EMB1500465	11a PU5.2	n/a	n/a	Coastal10	n/a	383	<500	No
EMB1501211	11a PU5.2	n/a	n/a	PROW6183	576/70/1	197	0	No
EMB1500551	11a PU5.2	n/a	n/a	Coastal10	n/a	294	0	No
EMB1500386	11a PU4.4	n/a	n/a	PROW5934	323/27/1	174	0	No
EMB1501075	11a PU5.2	n/a	n/a	PROW3	292/39	155	0	No
EMB1500465	11a PU5.2	n/a	n/a	PROW4	36/76/2	143	<500	No
EMB1501098	11a PU5.2	n/a	n/a	PROW5	36/75	132	<500	Yes
EMB1500465	11a PU5.2	n/a	n/a	PROW3	292/39	186	<500	No

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1500420	11a PU5.2	n/a	n/a	PROW1	292/38/2	132	0	No
EMB1501135	11a PU5.2	n/a	n/a	PROW6098	576/69/3	137	<500	Yes
EMB1501075	11a PU5.2	n/a	n/a	PROW6145	576/69/1	232	0	No
EMB1500551	11a PU5.2	n/a	n/a	PROW6145	576/69/1	116	0	No
EMB1501211	11a PU5.2	n/a	n/a	PROW6145	576/69/1	279	0	No
EMB1501178	11a PU5.2	n/a	n/a	PROW26	36/77/2	115	<500	No
EMB1501135	11a PU5.2	n/a	n/a	Coastal26	n/a	128	<500	Yes
EMB1501075	11a PU5.2	n/a	n/a	PROW6188	576/42/1	111	0	No
EMB1500551	11a PU5.2	n/a	n/a	PROW6062	576/102A	111	0	No
EMB1501075	11a PU5.2	n/a	n/a	PROW6186	576/42/3	105	0	No
EMB1500386	11a PU4.4	n/a	n/a	Coastal10	n/a	92	0	No
EMB1501075	11a PU5.2	n/a	n/a	PROW6194	576/42/2	79	0	No
EMB1500551	11a PU5.2	n/a	n/a	PROW6074	576/62/2	68	0	No
EMB1501098	11a PU5.2	n/a	n/a	PROW4	36/76/2	10	<500	Yes
EMB1500420	11a PU5.2	n/a	n/a	PROW2	292/38/1	1	0	No

**Table B.3. 18:** Flintshire – Epoch 3 (2055-2105).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
ADD91	11a PU5.2	n/a	n/a	Coastal10	n/a	253	<500	No
EMB1500386	11a PU4.4	n/a	n/a	PROW5934	323/27/1	174	0	No
EMB1500386	11a PU4.4	n/a	n/a	Coastal10	n/a	92	0	No
EMB1500420	11a PU5.2	n/a	n/a	Coastal10	n/a	1288	0	No
EMB1500420	11a PU5.2	n/a	n/a	PROW3	292/39	1016	0	No
EMB1500420	11a PU5.2	n/a	n/a	PROW1	292/38/2	132	0	No
EMB1500420	11a PU5.2	n/a	n/a	PROW2	292/38/1	1	0	No
EMB1500465	11a PU5.2	n/a	n/a	Coastal10	n/a	383	<500	No
EMB1500465	11a PU5.2	n/a	n/a	PROW4	36/76/2	143	<500	No
EMB1500465	11a PU5.2	n/a	n/a	PROW3	292/39	186	<500	No
EMB1500551	11a PU5.2	n/a	n/a	PROW6098	576/69/3	257	0	No
EMB1500551	11a PU5.2	n/a	n/a	Coastal26	n/a	257	0	No
EMB1500551	11a PU5.2	n/a	n/a	Coastal10	n/a	294	0	No
EMB1500551	11a PU5.2	n/a	n/a	PROW6145	576/69/1	116	0	No
EMB1500551	11a PU5.2	n/a	n/a	PROW6062	576/102A	111	0	No
EMB1500551	11a PU5.2	n/a	n/a	PROW6074	576/62/2	68	0	No
EMB1501075	11a PU5.2	n/a	n/a	Coastal10	n/a	3251	0	No
EMB1501075	11a PU5.2	n/a	n/a	PROW1	292/38/2	1559	0	No
EMB1501075	11a PU5.2	n/a	n/a	PROW6183	576/70/1	1277	0	No
EMB1501075	11a PU5.2	n/a	n/a	Coastal26	n/a	336	0	No
EMB1501075	11a PU5.2	n/a	n/a	PROW3	292/39	155	0	No
EMB1501075	11a PU5.2	n/a	n/a	PROW6145	576/69/1	232	0	No
EMB1501075	11a PU5.2	n/a	n/a	PROW6188	576/42/1	111	0	No
EMB1501075	11a PU5.2	n/a	n/a	PROW6186	576/42/3	105	0	No
EMB1501075	11a PU5.2	n/a	n/a	PROW6194	576/42/2	79	0	No
EMB1501098	11a PU5.2	n/a	n/a	Coastal10	n/a	930	<500	Yes



Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1501098	11a PU5.2	n/a	n/a	PROW7	36/76/1	910	<500	Yes
EMB1501098	11a PU5.2	n/a	n/a	PROW5	36/75	132	<500	Yes
EMB1501098	11a PU5.2	n/a	n/a	PROW4	36/76/2	10	<500	Yes
EMB1501135	11a PU5.2	n/a	n/a	Coastal10	n/a	1523	<500	Yes
EMB1501135	11a PU5.2	n/a	n/a	PROW6145	576/69/1	960	<500	Yes
EMB1501135	11a PU5.2	n/a	n/a	PROW6062	576/102A	557	<500	Yes
EMB1501135	11a PU5.2	n/a	n/a	PROW6098	576/69/3	137	<500	Yes
EMB1501135	11a PU5.2	n/a	n/a	Coastal26	n/a	128	<500	Yes
EMB1501178	11a PU5.2	n/a	n/a	Coastal10	n/a	790	<500	No
EMB1501178	11a PU5.2	n/a	n/a	PROW26	36/77/2	115	<500	No
EMB1501211	11a PU5.2	n/a	n/a	Coastal10	n/a	474	0	No
EMB1501211	11a PU5.2	n/a	n/a	PROW6183	576/70/1	197	0	No
EMB1501211	11a PU5.2	n/a	n/a	PROW6145	576/69/1	279	0	No
EMB1501321	11a PU5.2	n/a	n/a	Coastal10	n/a	1896	<500	Yes
EMB1501321	11a PU5.2	n/a	n/a	PROW56	36/77/1	1337	<500	Yes
EMB1501321	11a PU5.2	n/a	n/a	PROW26	36/77/2	557	<500	Yes

**Table B.3. 19:** Gwynedd – Epoch 1 (2005-2025).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1500298	16.4	n/a	n/a	Coastal24	n/a	1367	>1000	Yes
HG GRD1503508	12.11	n/a	n/a	PROW15972	535/38	789	<500	No
EMB1500589	10.10	n/a	n/a	PROW16840	644/53	901	<500	Yes
WALL1500487	14.11	n/a	n/a	Coastal24	n/a	694	0	No
ADD19	12.11	n/a	n/a	PROW15935	535/39/2	634	<500	No
EMB1500589	10.10	n/a	n/a	PROW19127	644/10	698	<500	Yes
EMB1501228	11.13	n/a	n/a	PROW16487	381/61/1	503	<500	No
WALL1500487	14.11	n/a	n/a	PROW9247	591/34/3	463	0	No
ADD110	10.15	n/a	n/a	Coastal24	n/a	459	0	No
WALL1500639	10.15	n/a	n/a	Coastal24	n/a	744	500-1000	Yes
EMB1500659	12.11	n/a	n/a	PROW15939	535/39/1	673	<500	No
EMB1501300	11.13	n/a	n/a	PROW16521	44/37	374	500-1000	Yes
ADD35	11.5	n/a	n/a	PROW16605	35/13/1	517	<500	No
EMB1501225	12.10	n/a	n/a	Coastal24	n/a	349	500-1000	Yes
ADD224	11.12	n/a	n/a	PROW18885	209/4	329	<500	No
ADD110	10.15	n/a	n/a	PROW15158	813/106/3	328	0	No
ADD21	12.7	n/a	n/a	PROW14640	763/10	379	<500	Yes
EMB1500910	11.5	n/a	n/a	Coastal24	n/a	260	500-1000	Yes
WALL1700050	11.5	n/a	n/a	Coastal24	n/a	234	500-1000	Yes
WALL1900006	11.5	n/a	n/a	Coastal24	n/a	260	500-1000	Yes
ADD222	12.10	n/a	n/a	Coastal24	n/a	223	<500	No
EMB1500084	12.10	12.12	n/a	PROW16057	647/26/2	219	<500	No
EMB1501393	12.11	n/a	n/a	PROW15939	535/39/1	268	<500	No
EMB1500086	12.11	n/a	n/a	PROW15939	535/39/1	386	<500	No
EMB1500296	12.12	n/a	n/a	PROW16065	647/24	192	<500	No
EMB1500120	12.22	n/a	n/a	PROW12564	523/54/4	186	500-1000	Yes
WALL1500487	14.11	n/a	n/a	PROW9229	591/20/1	179	0	No

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
WALL1500487	14.11	n/a	n/a	PROW9224	591/34/7	179	0	No
EMB1500120	12.22	12.23	n/a	PROW12566	523/54/5	173	500-1000	Yes
EMB1500298	16.4	n/a	n/a	PROW11653	364/3	171	>1000	Yes
ADD30	11.13	n/a	n/a	PROW16490	381/62	157	500-1000	Yes
WALL1600013	12.19	n/a	n/a	PROW14581	172/2/2	143	0	No
EMB1500589	10.10	n/a	n/a	PROW16846	644/52/1	142	<500	Yes
ADD223	12.7	n/a	n/a	PROW14640	763/10	173	<500	No
ADD54	10.10	n/a	n/a	PROW16840	644/53	126	<500	No
EMB1500589	10.10	n/a	n/a	PROW16872	644/52/2	123	<500	Yes
ADD52	10.10	n/a	n/a	PROW19127	644/10	120	<500	No
WALL1500386	11.5	n/a	n/a	PROW16605	35/13/1	126	<500	No
EMB1501225	12.10	n/a	n/a	PROW16069	763/49/1	115	500-1000	Yes
EMB1500910	11.5	n/a	n/a	PROW16605	35/13/1	251	500-1000	Yes
WALL1500909	11.5	n/a	n/a	PROW16605	35/13/1	190	<500	No
EMB1600018	15.6	n/a	n/a	PROW11976	154/15	101	<500	No
EMB1500872	11.10	n/a	n/a	PROW16531	35/36	95	<500	No
WALL1900006	11.5	n/a	n/a	PROW16605	35/13/1	140	500-1000	Yes
ADD188	10.15	n/a	n/a	PROW15158	813/106/3	169	500-1000	Yes
EMB1500895	16.4	n/a	n/a	Coastal24	n/a	81	>1000	Yes
WALL1500056	16.4	n/a	n/a	Coastal24	n/a	102	>1000	Yes
EMB1500657	12.7	n/a	n/a	PROW14650	763/7/2	73	>1000	Yes
EMB1500657	12.7	n/a	n/a	Coastal24	n/a	73	>1000	Yes
EMB1500120	12.22	n/a	n/a	PROW12561	523/54/1	71	500-1000	Yes
WALL1600013	12.19	n/a	n/a	Coastal24	n/a	64	0	No
WALL1500487	14.11	n/a	n/a	PROW9221	591/20/4	63	0	No
EMB1600018	15.6	n/a	n/a	PROW11988	154/54/1	62	<500	No
WALL1500487	14.11	n/a	n/a	PROW9223	591/20B/2	59	0	No
ADD223	12.7	n/a	n/a	PROW14641	763/14/2	44	<500	No
WALL1700050	11.5	n/a	n/a	PROW16605	35/13/1	42	500-1000	Yes

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
ADD223	12.7	n/a	n/a	Coastal24	n/a	39	<500	No
WALL1500487	14.11	n/a	n/a	PROW9218	591/20D	34	0	No
EMB1500494	12.11	n/a	n/a	PROW15939	535/39/1	53	<500	No
EMB1500959	12.7	n/a	n/a	PROW14653	763/11	27	<500	No
EMB1500019	11.10	n/a	n/a	PROW16531	35/36	26	<500	No
EMB1500154	11.12	11.13	n/a	PROW16452	381/67/2	18	<500	No
EMB1500959	12.7	n/a	n/a	Coastal24	n/a	14	<500	No
EMB1500154	11.12	11.13	n/a	PROW16456	381/67/1	12	<500	No
EMB1500296	12.12	n/a	n/a	PROW16061	647/26/1	9	<500	No
WALL1500487	14.11	n/a	n/a	PROW9225	591/34/1	8	0	No
EMB1500154	11.12	11.13	n/a	PROW16453	381/79/1	8	<500	No
WALL1500487	14.11	n/a	n/a	PROW9228	591/20B/1	3	0	No
WALL1500487	14.11	n/a	n/a	PROW9235	591/34/2	2	0	No

**Table B.3. 20:** Gwynedd – Epoch 2 (2025-2055).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1500666	12.9	n/a	n/a	Coastal24	n/a	2580	500-1000	Yes
EMB1501428	16.5	n/a	n/a	PROW11623	364/86/2	2311	>1000	Yes
WALL1700050	11.4	n/a	n/a	Coastal24	n/a	1945	500-1000	Yes
EMB1500910	11.6	n/a	n/a	PROW16605	35/13/1	2049	500-1000	Yes
EMB1500910	11.6	n/a	n/a	Coastal24	n/a	1978	500-1000	Yes
EMB1500298	16.4	n/a	n/a	Coastal24	n/a	1367	>1000	Yes
EMB1500170	13.8	n/a	n/a	Coastal24	n/a	1167	500-1000	Yes
WALL1500128	11.15	n/a	n/a	Coastal24	n/a	1118	0	No
EMB1500666	12.9	n/a	n/a	PROW16141	763/6/1	1111	500-1000	Yes
EMB1501428	16.5	n/a	n/a	Coastal24	n/a	1044	>1000	Yes
EMB1500080	10.18	n/a	n/a	PROW15133	813/7/4	985	<500	Yes
EMB1500080	10.18	n/a	n/a	PROW15118	96/1/9	841	<500	Yes
HG GRD1503508	12.11	n/a	n/a	PROW15972	535/38	789	<500	No
EMB1501225	12.10	12.9	n/a	Coastal24	n/a	785	500-1000	Yes
EMB1500589	10.10	n/a	n/a	PROW16840	644/53	901	<500	Yes
EMB1500170	13.8	n/a	n/a	PROW9681	330/22/2	740	500-1000	Yes
EMB1500666	12.9	n/a	n/a	PROW16112	763/6/3	734	500-1000	Yes
EMB1500666	12.9	n/a	n/a	PROW16102	763/44	712	500-1000	Yes
WALL1500487	14.11	15.2	n/a	Coastal24	n/a	694	0	No
EMB1501428	16.5	n/a	n/a	PROW11670	364/87	658	>1000	Yes
ADD18	13.7	n/a	n/a	PROW9651	685/5	656	500-1000	No
ADD18	13.7	n/a	n/a	Coastal24	n/a	654	500-1000	No
ADD19	12.11	n/a	n/a	PROW15935	535/39/2	634	<500	No
EMB1500589	10.10	n/a	n/a	PROW19127	644/10	698	<500	Yes
EMB1501228	11.13	n/a	n/a	PROW16487	381/61/1	503	<500	No
EMB1500422	12.3	n/a	n/a	PROW14839	328/1/2	530	<500	Yes



Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1500080	10.18	n/a	n/a	PROW15122	96/1/2	487	<500	Yes
EMB1500422	12.3	n/a	n/a	Coastal24	n/a	885	<500	Yes
WALL1500487	14.11	15.2	n/a	PROW9247	591/34/3	463	0	No
ADD110	10.15	n/a	n/a	Coastal24	n/a	459	0	No
WALL1500639	10.15	n/a	n/a	Coastal24	n/a	744	500-1000	Yes
WALL1500056	16.3	n/a	n/a	Coastal24	n/a	557	>1000	Yes
EMB1500712	12.3	n/a	n/a	Coastal24	n/a	410	<500	No
EMB1500659	12.11	n/a	n/a	PROW15939	535/39/1	673	<500	No
EMB1500435	12.9	n/a	n/a	PROW16151	763/6/2	392	500-1000	Yes
EMB1500695	10.18	n/a	n/a	Coastal24	n/a	378	0	No
EMB1501300	11.13	n/a	n/a	PROW16521	44/37	374	500-1000	Yes
EMB1500435	12.9	n/a	n/a	PROW14650	763/7/2	378	500-1000	Yes
ADD35	11.5	n/a	n/a	PROW16605	35/13/1	517	<500	No
ADD109	10.18	n/a	n/a	PROW15119	813/107	436	0	No
EMB1500695	10.18	n/a	n/a	PROW15119	813/107	390	0	No
ADD224	11.12	n/a	n/a	PROW18885	209/4	329	<500	No
EMB1500080	10.18	n/a	n/a	PROW15130	813/4/3	328	<500	Yes
EMB1500080	10.18	n/a	n/a	PROW15127	96/1/4	315	<500	Yes
EMB1500422	12.3	n/a	n/a	PROW14840	328/1/1	426	<500	Yes
EMB1500080	10.18	n/a	n/a	PROW15129	96/1/5	312	<500	Yes
EMB1500080	10.18	n/a	n/a	PROW15124	813/4/5	302	<500	Yes
EMB1501225	12.10	12.9	n/a	PROW16102	763/44	292	500-1000	Yes
EMB1500338	11.9	n/a	n/a	PROW16589	35/13/2	357	500-1000	Yes
EMB1500080	10.18	n/a	n/a	PROW15128	813/4/2	278	<500	Yes
ADD110	10.15	n/a	n/a	PROW15158	813/106/3	328	0	No
ADD21	12.7	n/a	n/a	PROW14640	763/10	379	<500	Yes
EMB1500910	11.4	n/a	n/a	Coastal24	n/a	234	500-1000	Yes
WALL1900006	11.4	n/a	n/a	Coastal24	n/a	234	500-1000	Yes

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
ADD34	11.6	n/a	n/a	Coastal24	n/a	270	500-1000	Yes
ADD106	11.6	n/a	n/a	Coastal24	n/a	358	500-1000	Yes
ADD222	12.10	n/a	n/a	Coastal24	n/a	223	<500	No
EMB1500084	12.10	12.12	n/a	PROW16057	647/26/2	219	<500	No
EMB1500170	13.8	n/a	n/a	PROW9656	475/29/2	217	500-1000	Yes
ADD34	11.6	n/a	n/a	PROW16605	35/13/1	355	500-1000	Yes
ADD106	11.6	n/a	n/a	PROW16605	35/13/1	236	500-1000	Yes
EMB1500467	12.9	n/a	n/a	PROW14650	763/7/2	204	500-1000	Yes
EMB1500657	12.9	n/a	n/a	PROW14650	763/7/2	207	>1000	Yes
EMB1501393	12.11	n/a	n/a	PROW15939	535/39/1	268	<500	No
EMB1500086	12.11	n/a	n/a	PROW15939	535/39/1	386	<500	No
EMB1500080	10.18	n/a	n/a	PROW15121	375/3/1	192	<500	Yes
EMB1500296	12.12	n/a	n/a	PROW16065	647/24	192	<500	No
WALL1500159	11.9	n/a	n/a	PROW16605	35/13/1	186	500-1000	Yes
EMB1500120	12.22	n/a	n/a	PROW12564	523/54/4	186	500-1000	Yes
EMB1500467	12.9	n/a	n/a	PROW16151	763/6/2	187	500-1000	Yes
EMB1500657	12.9	n/a	n/a	PROW16151	763/6/2	186	>1000	Yes
WALL1500487	14.11	15.2	n/a	PROW9229	591/20/1	179	0	No
WALL1500487	14.11	15.2	n/a	PROW9224	591/34/7	179	0	No
WALL1500127	13.14	n/a	n/a	Coastal24	n/a	177	0	No
ADD97	12.3	n/a	n/a	PROW14848	328/82/2	175	<500	No
EMB1500120	12.22	12.23	n/a	PROW12566	523/54/5	173	500-1000	Yes
EMB1500298	16.4	n/a	n/a	PROW11653	364/3	171	>1000	Yes
ADD30	11.13	n/a	n/a	PROW16490	381/62	157	500-1000	Yes
EMB1500467	12.9	n/a	n/a	Coastal24	n/a	247	500-1000	Yes
EMB1500657	12.9	n/a	n/a	Coastal24	n/a	143	>1000	Yes
WALL1600013	12.19	n/a	n/a	PROW14581	172/2/2	143	0	No
EMB1500589	10.10	n/a	n/a	PROW16846	644/52/1	142	<500	Yes

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
WALL1500645	12.24	n/a	n/a	PROW12568	523/88	140	0	No
ADD223	12.7	n/a	n/a	PROW14640	763/10	173	<500	No
EMB1500666	12.9	n/a	n/a	PROW16113	763/5/2	134	500-1000	Yes
EMB1501000	11.9	n/a	n/a	PROW16595	35/14/5	133	500-1000	Yes
EMB1500080	10.18	n/a	n/a	PROW15120	96/1/1	131	<500	Yes
WALL1500138	14.8	n/a	n/a	Coastal24	n/a	226	0	No
EMB1500467	12.9	n/a	n/a	PROW16142	763/8/1	130	500-1000	Yes
EMB1500657	12.9	n/a	n/a	PROW16142	763/8/1	145	>1000	Yes
EMB1500170	13.8	n/a	n/a	PROW9662	475/29/1	130	500-1000	Yes
EMB1500666	12.9	n/a	n/a	PROW16122	763/5/1	127	500-1000	Yes
EMB1500080	10.18	n/a	n/a	PROW15132	96/3	126	<500	Yes
ADD54	10.10	n/a	n/a	PROW16840	644/53	126	<500	No
EMB1500080	10.18	n/a	n/a	PROW15126	96/1/3	123	<500	Yes
EMB1500589	10.10	n/a	n/a	PROW16872	644/52/2	123	<500	Yes
ADD52	10.10	n/a	n/a	PROW19127	644/10	120	<500	No
EMB1500895	16.3	n/a	n/a	Coastal24	n/a	118	>1000	Yes
EMB1501428	16.5	n/a	n/a	PROW11637	512/1	118	>1000	Yes
EMB1500467	12.9	n/a	n/a	PROW16140	763/8/2	127	500-1000	Yes
WALL1500386	11.5	n/a	n/a	PROW16605	35/13/1	126	<500	No
EMB1501225	12.10	12.9	n/a	PROW16069	763/49/1	115	500-1000	Yes
EMB1500712	12.3	n/a	n/a	PROW14840	328/1/1	114	<500	No
EMB1500967	12.3	n/a	n/a	PROW14846	328/84	113	>1000	Yes
EMB1500910	11.5	n/a	n/a	PROW16605	35/13/1	111	500-1000	Yes
WALL1500909	11.5	n/a	n/a	PROW16605	35/13/1	190	<500	No
EMB1500170	13.8	n/a	n/a	PROW9657	475/15/2	106	500-1000	Yes
EMB1500467	12.9	n/a	n/a	PROW16141	763/6/1	114	500-1000	Yes
EMB1600018	15.6	n/a	n/a	PROW11976	154/15	101	<500	No
WALL1600001	11.4	n/a	n/a	Coastal24	n/a	98	500-1000	Yes

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1500872	11.10	n/a	n/a	PROW16531	35/36	95	<500	No
WALL1500874	14.8	n/a	n/a	Coastal24	n/a	179	0	No
WALL1500131	12.17	n/a	n/a	Coastal24	n/a	95	0	No
WALL1900006	11.6	n/a	n/a	PROW16605	35/13/1	93	500-1000	Yes
EMB1501363	11.9	n/a	n/a	PROW16589	35/13/2	93	500-1000	Yes
ADD188	10.15	n/a	n/a	PROW15158	813/106/3	169	500-1000	Yes
EMB1501000	11.9	n/a	n/a	PROW16589	35/13/2	92	500-1000	Yes
WALL1500128	11.15	n/a	n/a	PROW16535	44/25/1	91	0	No
WALL1500127	13.14	n/a	n/a	PROW10257	384/26/1	90	0	No
WALL1500131	12.17	n/a	n/a	PROW14551	172/13/3	83	0	No
WALL1500343	11.15	n/a	n/a	Coastal24	n/a	78	0	No
EMB1501000	11.9	n/a	n/a	PROW16605	35/13/1	77	500-1000	Yes
EMB1500120	12.22	n/a	n/a	PROW12561	523/54/1	71	500-1000	Yes
WALL1500874	14.8	n/a	n/a	PROW10258	11/124	65	0	No
WALL1500138	14.8	n/a	n/a	PROW10258	11/124	65	0	No
WALL1600013	12.19	n/a	n/a	Coastal24	n/a	64	0	No
WALL1500487	14.11	15.2	n/a	PROW9221	591/20/4	63	0	No
EMB1500422	12.3	n/a	n/a	PROW14826	392/48	63	<500	Yes
EMB1500712	12.3	n/a	n/a	PROW14826	392/48	63	<500	No
EMB1600018	15.6	n/a	n/a	PROW11988	154/54/1	62	<500	No
EMB1500170	13.8	n/a	n/a	PROW9682	330/22/1	61	500-1000	Yes
EMB1500797	11.9	n/a	n/a	PROW16589	35/13/2	59	<500	No
WALL1500487	14.11	15.2	n/a	PROW9223	591/20B/2	59	0	No
EMB1800076	11.9	n/a	n/a	PROW16605	35/13/1	59	<500	No
EMB1500080	10.18	n/a	n/a	PROW15131	813/11/2	56	<500	Yes
WALL1500251	15.2	n/a	n/a	PROW9271	591/19/3	55	0	No
WALL1500251	15.2	n/a	n/a	Coastal24	n/a	54	0	No
WALL1500874	14.8	n/a	n/a	PROW10251	11/16/1	51	0	No

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1500170	13.8	n/a	n/a	PROW9704	330/23	48	500-1000	Yes
EMB1500080	10.18	n/a	n/a	PROW15123	375/999/2	47	<500	Yes
EMB1500435	12.9	n/a	n/a	PROW16162	763/7/1	45	500-1000	Yes
EMB1500080	10.18	n/a	n/a	PROW15125	813/4/1	44	<500	Yes
ADD109	10.18	n/a	n/a	Coastal24	n/a	44	0	No
ADD223	12.7	n/a	n/a	PROW14641	763/14/2	44	<500	No
EMB1500910	11.4	11.5	11.6	PROW16605	35/13/1	47	500-1000	Yes
WALL1700050	11.4	11.5	11.6	PROW16605	35/13/1	42	500-1000	Yes
WALL1900006	11.5	11.6	n/a	PROW16605	35/13/1	47	500-1000	Yes
ADD223	12.7	n/a	n/a	Coastal24	n/a	39	<500	No
WALL1500487	14.11	15.2	n/a	PROW9218	591/20D	34	0	No
EMB1500712	12.3	n/a	n/a	PROW14839	328/1/2	30	<500	No
EMB1500494	12.11	n/a	n/a	PROW15939	535/39/1	53	<500	No
EMB1500959	12.7	n/a	n/a	PROW14653	763/11	27	<500	No
WALL1900006	11.6	n/a	n/a	Coastal24	n/a	26	500-1000	Yes
EMB1500019	11.10	n/a	n/a	PROW16531	35/36	26	<500	No
EMB1501428	16.5	n/a	n/a	PROW11625	364/86/1	24	>1000	Yes
EMB1500422	12.3	n/a	n/a	PROW14822	392/30	19	<500	Yes
EMB1500154	11.12	11.13	n/a	PROW16452	381/67/2	18	<500	No
EMB1501140	11.9	n/a	n/a	PROW16589	35/13/2	18	<500	No
WALL1500128	11.15	n/a	n/a	PROW16547	44/26/1	15	0	No
EMB1500959	12.7	n/a	n/a	Coastal24	n/a	14	<500	No
EMB1500657	12.9	n/a	n/a	PROW16141	763/6/1	13	>1000	Yes
EMB1500154	11.12	11.13	n/a	PROW16456	381/67/1	12	<500	No
EMB1500657	12.9	n/a	n/a	PROW16140	763/8/2	9	>1000	Yes
EMB1500296	12.12	n/a	n/a	PROW16061	647/26/1	9	<500	No
WALL1500487	14.11	15.2	n/a	PROW9225	591/34/1	8	0	No
EMB1500154	11.12	11.13	n/a	PROW16453	381/79/1	8	<500	No

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
WALL1500487	14.11	15.2	n/a	PROW9228	591/20B/1	3	0	No
WALL1500487	14.11	15.2	n/a	PROW9235	591/34/2	2	0	No
WALL1500128	11.15	n/a	n/a	PROW16529	44/24	1	0	No
EMB1504786	11.9	n/a	n/a	PROW16601	35/11	0	<500	No



**Table B.3. 21:** Gwynedd – Epoch 3 (2055-2105)

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
ADD106	11.6	n/a	n/a	Coastal24	n/a	358	500-1000	which
ADD106	11.6	n/a	n/a	PROW16605	35/13/1	236	500-1000	Yes
ADD109	10.18	n/a	n/a	PROW15119	813/107	436	0	No
ADD109	10.18	n/a	n/a	Coastal24	n/a	44	0	No
ADD110	10.15	n/a	n/a	Coastal24	n/a	459	0	No
ADD110	10.15	n/a	n/a	PROW15158	813/106/3	328	0	No
ADD18	13.7	n/a	n/a	PROW9651	685/5	656	500-1000	No
ADD18	13.7	n/a	n/a	Coastal24	n/a	654	500-1000	No
ADD188	10.15	n/a	n/a	PROW15158	813/106/3	169	500-1000	Yes
ADD19	12.11	n/a	n/a	PROW15935	535/39/2	634	<500	No
ADD21	12.7	n/a	n/a	PROW14640	763/10	379	<500	Yes
ADD222	12.10	n/a	n/a	Coastal24	n/a	223	<500	No
ADD223	12.7	n/a	n/a	PROW14640	763/10	173	<500	No
ADD223	12.7	n/a	n/a	PROW14641	763/14/2	44	<500	No
ADD223	12.7	n/a	n/a	Coastal24	n/a	39	<500	No
ADD224	11.12	n/a	n/a	PROW18885	209/4	329	<500	No
ADD30	11.13	n/a	n/a	PROW16490	381/62	157	500-1000	Yes
ADD34	11.6	n/a	n/a	Coastal24	n/a	270	500-1000	Yes
ADD34	11.6	n/a	n/a	PROW16605	35/13/1	355	500-1000	Yes
ADD35	11.5	n/a	n/a	PROW16605	35/13/1	517	<500	No
ADD52	10.10	n/a	n/a	PROW19127	644/10	120	<500	No
ADD54	10.10	n/a	n/a	PROW16840	644/53	126	<500	No
ADD97	12.3	n/a	n/a	PROW14848	328/82/2	175	<500	No
EMB1500019	11.10	n/a	n/a	PROW16531	35/36	26	<500	No
EMB1500080	10.18	n/a	n/a	PROW15133	813/7/4	985	<500	Yes
EMB1500080	10.18	n/a	n/a	PROW15118	96/1/9	841	<500	Yes
EMB1500080	10.18	n/a	n/a	PROW15122	96/1/2	487	<500	Yes

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1500080	10.18	n/a	n/a	PROW15130	813/4/3	328	<500	Yes
EMB1500080	10.18	n/a	n/a	PROW15127	96/1/4	315	<500	Yes
EMB1500080	10.18	n/a	n/a	PROW15129	96/1/5	312	<500	Yes
EMB1500080	10.18	n/a	n/a	PROW15124	813/4/5	302	<500	Yes
EMB1500080	10.18	n/a	n/a	PROW15128	813/4/2	278	<500	Yes
EMB1500080	10.18	n/a	n/a	PROW15121	375/3/1	192	<500	Yes
EMB1500080	10.18	n/a	n/a	PROW15120	96/1/1	131	<500	Yes
EMB1500080	10.18	n/a	n/a	PROW15132	96/3	126	<500	Yes
EMB1500080	10.18	n/a	n/a	PROW15126	96/1/3	123	<500	Yes
EMB1500080	10.18	n/a	n/a	PROW15131	813/11/2	56	<500	Yes
EMB1500080	10.18	n/a	n/a	PROW15123	375/999/2	47	<500	Yes
EMB1500080	10.18	n/a	n/a	PROW15125	813/4/1	44	<500	Yes
EMB1500084	12.10	12.12	n/a	PROW16057	647/26/2	219	<500	No
EMB1500086	12.11	n/a	n/a	PROW15939	535/39/1	386	<500	No
EMB1500120	12.22	12.23	n/a	PROW12564	523/54/4	186	500-1000	Yes
EMB1500120	12.22	12.23	n/a	PROW12566	523/54/5	173	500-1000	Yes
EMB1500120	12.22	12.23	n/a	PROW12561	523/54/1	71	500-1000	Yes
EMB1500154	11.12	11.13	n/a	PROW16452	381/67/2	18	<500	No
EMB1500154	11.12	11.13	n/a	PROW16456	381/67/1	12	<500	No
EMB1500154	11.12	11.13	n/a	PROW16453	381/79/1	8	<500	No
EMB1500170	13.8	n/a	n/a	Coastal24	n/a	1167	500-1000	Yes
EMB1500170	13.8	n/a	n/a	PROW9681	330/22/2	740	500-1000	Yes
EMB1500170	13.8	n/a	n/a	PROW9656	475/29/2	217	500-1000	Yes
EMB1500170	13.8	n/a	n/a	PROW9662	475/29/1	130	500-1000	Yes
EMB1500170	13.8	n/a	n/a	PROW9657	475/15/2	106	500-1000	Yes
EMB1500170	13.8	n/a	n/a	PROW9682	330/22/1	61	500-1000	Yes
EMB1500170	13.8	n/a	n/a	PROW9704	330/23	48	500-1000	Yes
EMB1500296	12.12	n/a	n/a	PROW16065	647/24	192	<500	No
EMB1500296	12.12	n/a	n/a	PROW16061	647/26/1	9	<500	No

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1500298	16.4	n/a	n/a	Coastal24	n/a	1367	>1000	Yes
EMB1500298	16.4	n/a	n/a	PROW11653	364/3	171	>1000	Yes
EMB1500338	11.9	n/a	n/a	PROW16589	35/13/2	357	500-1000	Yes
EMB1500422	12.3	n/a	n/a	PROW14839	328/1/2	530	<500	Yes
EMB1500422	12.3	n/a	n/a	Coastal24	n/a	885	<500	Yes
EMB1500422	12.3	n/a	n/a	PROW14840	328/1/1	426	<500	Yes
EMB1500422	12.3	n/a	n/a	PROW14826	392/48	63	<500	Yes
EMB1500422	12.3	n/a	n/a	PROW14822	392/30	19	<500	Yes
EMB1500435	12.9	n/a	n/a	PROW16151	763/6/2	392	500-1000	Yes
EMB1500435	12.9	n/a	n/a	PROW14650	763/7/2	378	500-1000	Yes
EMB1500435	12.9	n/a	n/a	PROW16162	763/7/1	45	500-1000	Yes
EMB1500467	12.9	n/a	n/a	PROW14650	763/7/2	204	500-1000	Yes
EMB1500467	12.9	n/a	n/a	PROW16151	763/6/2	187	500-1000	Yes
EMB1500467	12.9	n/a	n/a	Coastal24	n/a	247	500-1000	Yes
EMB1500467	12.9	n/a	n/a	PROW16142	763/8/1	130	500-1000	Yes
EMB1500467	12.9	n/a	n/a	PROW16140	763/8/2	127	500-1000	Yes
EMB1500467	12.9	n/a	n/a	PROW16141	763/6/1	114	500-1000	Yes
EMB1500494	12.11	n/a	n/a	PROW15939	535/39/1	53	<500	No
EMB1500589	10.10	n/a	n/a	PROW16840	644/53	901	<500	Yes
EMB1500589	10.10	n/a	n/a	PROW19127	644/10	698	<500	Yes
EMB1500589	10.10	n/a	n/a	PROW16846	644/52/1	142	<500	Yes
EMB1500589	10.10	n/a	n/a	PROW16872	644/52/2	123	<500	Yes
EMB1500657	12.9	n/a	n/a	PROW14650	763/7/2	207	>1000	Yes
EMB1500657	12.9	n/a	n/a	PROW16151	763/6/2	186	>1000	Yes
EMB1500657	12.9	n/a	n/a	Coastal24	n/a	143	>1000	Yes
EMB1500657	12.9	n/a	n/a	PROW16142	763/8/1	145	>1000	Yes
EMB1500657	12.9	n/a	n/a	PROW16141	763/6/1	13	>1000	Yes
EMB1500657	12.9	n/a	n/a	PROW16140	763/8/2	9	>1000	Yes
EMB1500659	12.11	n/a	n/a	PROW15939	535/39/1	673	<500	No

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1500666	12.9	n/a	n/a	Coastal24	n/a	2580	500-1000	Yes
EMB1500666	12.9	n/a	n/a	PROW16141	763/6/1	1111	500-1000	Yes
EMB1500666	12.9	n/a	n/a	PROW16112	763/6/3	734	500-1000	Yes
EMB1500666	12.9	n/a	n/a	PROW16102	763/44	712	500-1000	Yes
EMB1500666	12.9	n/a	n/a	PROW16113	763/5/2	134	500-1000	Yes
EMB1500666	12.9	n/a	n/a	PROW16122	763/5/1	127	500-1000	Yes
EMB1500695	10.18	n/a	n/a	Coastal24	n/a	378	0	No
EMB1500695	10.18	n/a	n/a	PROW15119	813/107	390	0	No
EMB1500712	12.3	n/a	n/a	Coastal24	n/a	410	<500	No
EMB1500712	12.3	n/a	n/a	PROW14840	328/1/1	114	<500	No
EMB1500712	12.3	n/a	n/a	PROW14826	392/48	63	<500	No
EMB1500712	12.3	n/a	n/a	PROW14839	328/1/2	30	<500	No
EMB1500797	11.9	n/a	n/a	PROW16589	35/13/2	59	<500	No
EMB1500872	11.10	n/a	n/a	PROW16531	35/36	95	<500	No
EMB1500895	16.3	16.4	n/a	Coastal24	n/a	118	>1000	Yes
EMB1500910	11.6	n/a	n/a	PROW16605	35/13/1	1956	500-1000	Yes
EMB1500910	11.6	n/a	n/a	Coastal24	n/a	1952	500-1000	Yes
EMB1500910	11.4	n/a	n/a	Coastal24	n/a	234	500-1000	Yes
EMB1500910	11.5	n/a	n/a	PROW16605	35/13/1	111	500-1000	Yes
EMB1500910	11.4	11.5	11.6	PROW16605	35/13/1	140	500-1000	Yes
EMB1500910	11.4	11.5	11.6	Coastal24	n/a	26	500-1000	Yes
EMB1500959	12.7	n/a	n/a	PROW14653	763/11	27	<500	No
EMB1500959	12.7	n/a	n/a	Coastal24	n/a	14	<500	No
EMB1500967	12.3	n/a	n/a	PROW14846	328/84	113	>1000	Yes
EMB1501000	11.9	n/a	n/a	PROW16595	35/14/5	133	500-1000	Yes
EMB1501000	11.9	n/a	n/a	PROW16589	35/13/2	92	500-1000	Yes
EMB1501000	11.9	n/a	n/a	PROW16605	35/13/1	77	500-1000	Yes
EMB1501140	11.9	n/a	n/a	PROW16589	35/13/2	18	<500	No
EMB1501225	12.10	12.9	n/a	Coastal24	n/a	785	500-1000	Yes

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1501225	12.10	12.9	n/a	PROW16102	763/44	292	500-1000	Yes
EMB1501225	12.10	12.9	n/a	PROW16069	763/49/1	115	500-1000	Yes
EMB1501228	11.13	n/a	n/a	PROW16487	381/61/1	503	<500	No
EMB1501300	11.13	n/a	n/a	PROW16521	44/37	374	500-1000	Yes
EMB1501363	11.9	n/a	n/a	PROW16589	35/13/2	93	500-1000	Yes
EMB1501393	12.11	n/a	n/a	PROW15939	535/39/1	268	<500	No
EMB1501428	16.5	n/a	n/a	PROW11623	364/86/2	2311	>1000	Yes
EMB1501428	16.5	n/a	n/a	Coastal24	n/a	1044	>1000	Yes
EMB1501428	16.5	n/a	n/a	PROW11670	364/87	658	>1000	Yes
EMB1501428	16.5	n/a	n/a	PROW11637	512/1	118	>1000	Yes
EMB1501428	16.5	n/a	n/a	PROW11625	364/86/1	24	>1000	Yes
EMB1504786	11.9	n/a	n/a	PROW16601	35/11	0	<500	No
EMB1600018	15.6	n/a	n/a	PROW11976	154/15	101	<500	No
EMB1600018	15.6	n/a	n/a	PROW11988	154/54/1	62	<500	No
EMB1800076	11.9	n/a	n/a	PROW16605	35/13/1	59	<500	No
HG GRD1503508	12.11	n/a	n/a	PROW15972	535/38	789	<500	No
WALL1500056	16.3	16.4	n/a	Coastal24	n/a	557	>1000	Yes
WALL1500127	13.14	n/a	n/a	Coastal24	n/a	177	0	No
WALL1500127	13.14	n/a	n/a	PROW10257	384/26/1	90	0	No
WALL1500128	11.15	n/a	n/a	Coastal24	n/a	1118	0	No
WALL1500128	11.15	n/a	n/a	PROW16535	44/25/1	91	0	No
WALL1500128	11.15	n/a	n/a	PROW16547	44/26/1	15	0	No
WALL1500128	11.15	n/a	n/a	PROW16529	44/24	1	0	No
WALL1500131	12.17	12.18	n/a	Coastal24	n/a	752	0	No
WALL1500131	12.17	12.18	n/a	PROW14543	172/4	301	0	No
WALL1500131	12.17	12.18	n/a	PROW14551	172/13/3	83	0	No
WALL1500159	11.9	n/a	n/a	PROW16605	35/13/1	186	500-1000	Yes
WALL1500251	15.2	n/a	n/a	PROW9271	591/19/3	55	0	No
WALL1500251	15.2	n/a	n/a	Coastal24	n/a	54	0	No

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
WALL1500343	11.15	n/a	n/a	Coastal24	n/a	78	0	No
WALL1500386	11.5	n/a	n/a	PROW16605	35/13/1	126	<500	No
WALL1500487	14.11	15.2	n/a	Coastal24	n/a	694	0	No
WALL1500487	14.11	15.2	n/a	PROW9247	591/34/3	463	0	No
WALL1500487	14.11	15.2	n/a	PROW9229	591/20/1	179	0	No
WALL1500487	14.11	15.2	n/a	PROW9224	591/34/7	179	0	No
WALL1500487	14.11	15.2	n/a	PROW9221	591/20/4	63	0	No
WALL1500487	14.11	15.2	n/a	PROW9223	591/20B/2	59	0	No
WALL1500487	14.11	15.2	n/a	PROW9218	591/20D	34	0	No
WALL1500487	14.11	15.2	n/a	PROW9225	591/34/1	8	0	No
WALL1500487	14.11	15.2	n/a	PROW9228	591/20B/1	3	0	No
WALL1500487	14.11	15.2	n/a	PROW9235	591/34/2	2	0	No
WALL1500639	10.15	n/a	n/a	Coastal24	n/a	744	500-1000	Yes
WALL1500645	12.24	n/a	n/a	PROW12568	523/88	140	0	No
WALL1500909	11.5	n/a	n/a	PROW16605	35/13/1	190	<500	No
WALL1600001	11.4	n/a	n/a	Coastal24	n/a	98	500-1000	Yes
WALL1600013	12.19	n/a	n/a	PROW14581	172/2/2	143	0	No
WALL1600013	12.19	n/a	n/a	Coastal24	n/a	64	0	No
WALL1700050	11.4	n/a	n/a	Coastal24	n/a	1945	500-1000	Yes
WALL1700050	11.4	11.5	11.6	PROW16605	35/13/1	42	500-1000	Yes
WALL1900006	11.5	n/a	n/a	Coastal24	n/a	234	500-1000	Yes
WALL1900006	11.5	11.6	n/a	PROW16605	35/13/1	140	500-1000	Yes
WALL1900006	11.5	11.6	n/a	Coastal24	n/a	26	500-1000	Yes



**Table B.3. 22:** Isle of Anglesey – Epoch 1 (2005-2025).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
WALL1500221	16.18	n/a	n/a	Coastal1	n/a	1349	0	No
WALL1500763	16.25	n/a	n/a	Coastal1	n/a	432	<500	No
WALL1500221	16.18	n/a	n/a	PROW13078	560/13	361	0	No
WALL1500194	17.9	n/a	n/a	Coastal1	n/a	316	0	No
EMB1500834	16.6	n/a	n/a	PROW11501	703/66/2	310	500-1000	Yes
EMB1500834	16.6	n/a	n/a	Coastal1	n/a	275	500-1000	Yes
WALL1500845	16.25	n/a	n/a	Coastal1	n/a	245	<500	No
WALL1500221	16.20	n/a	n/a	Coastal1	n/a	242	0	No
WALL1500060	16.25	n/a	n/a	Coastal1	n/a	209	0	No
EMB1500834	16.6	n/a	n/a	PROW11500	703/67/1	156	500-1000	Yes
EMB1500451	17.22	n/a	n/a	Coastal1	n/a	150	<500	Yes
EMB1500451	17.22	n/a	n/a	PROW8689	387/1/3	150	<500	Yes
WALL1500221	16.18	n/a	n/a	PROW13060	560/11/1	129	0	No
EMB1500834	16.6	n/a	n/a	PROW11514	703/66/1	122	500-1000	Yes
WALL1500194	17.9	n/a	n/a	PROW8818	783/6/2	114	0	No
WALL1500221	16.18	n/a	n/a	PROW13049	560/11/3	74	0	No
WALL1500060	16.25	n/a	n/a	PROW15213	48/1	65	0	No
WALL1500221	16.18	n/a	n/a	PROW13048	560/12	64	0	No
WALL1500060	16.23	n/a	n/a	Coastal1	n/a	60	0	No
WALL1500221	16.20	n/a	n/a	PROW13006	560/4	57	0	No
WALL1500221	16.18	n/a	n/a	PROW13064	560/11/2	56	0	No
EMB1501174	17.19	n/a	n/a	PROW8846	698/20/1	39	<500	Yes

**Table B.3. 23:** Isle of Anglesey – Epoch 2 (2025-2055).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
WALL1500221	16.18	n/a	n/a	Coastal1	n/a	1349	0	No
WALL1500763	16.25	n/a	n/a	Coastal1	n/a	432	<500	No
WALL1500221	16.18	n/a	n/a	PROW13078	560/13	361	0	No
WALL1500194	17.9	n/a	n/a	Coastal1	n/a	316	0	No
EMB1500834	16.6	n/a	n/a	PROW11501	703/66/2	310	500-1000	Yes
EMB1500834	16.6	n/a	n/a	Coastal1	n/a	275	500-1000	Yes
WALL1500845	16.25	n/a	n/a	Coastal1	n/a	245	<500	No
WALL1500221	16.20	n/a	n/a	Coastal1	n/a	242	0	No
EMB1500834	16.6	n/a	n/a	PROW11500	703/67/1	156	500-1000	Yes
EMB1500451	17.22	n/a	n/a	Coastal1	n/a	150	<500	Yes
EMB1500451	17.22	n/a	n/a	PROW8689	387/1/3	150	<500	Yes
WALL1500060	16.25	n/a	n/a	Coastal1	n/a	149	0	No
WALL1500221	16.18	n/a	n/a	PROW13060	560/11/1	129	0	No
EMB1500834	16.6	n/a	n/a	PROW11514	703/66/1	122	500-1000	Yes
WALL1500194	17.9	n/a	n/a	PROW8818	783/6/2	114	0	No
WALL1500221	16.18	n/a	n/a	PROW13049	560/11/3	74	0	No
WALL1500060	16.25	n/a	n/a	PROW15213	48/1	65	0	No
WALL1500221	16.18	n/a	n/a	PROW13048	560/12	64	0	No
WALL1500060	16.23	n/a	n/a	Coastal1	n/a	60	0	No
WALL1500221	16.20	n/a	n/a	PROW13006	560/4	57	0	No
WALL1500221	16.18	n/a	n/a	PROW13064	560/11/2	56	0	No
EMB1501174	17.19	n/a	n/a	PROW8846	698/20/1	39	<500	Yes

**Table B.3. 24:** Isle of Anglesey – Epoch 3 (2055-2105).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1500451	17.22	n/a	n/a	Coastal1	n/a	150	<500	Yes
EMB1500451	17.22	n/a	n/a	PROW8689	387/1/3	150	<500	Yes
EMB1500834	16.6	n/a	n/a	PROW11501	703/66/2	310	500-1000	Yes
EMB1500834	16.6	n/a	n/a	Coastal1	n/a	275	500-1000	Yes
EMB1500834	16.6	n/a	n/a	PROW11500	703/67/1	156	500-1000	Yes
EMB1500834	16.6	n/a	n/a	PROW11514	703/66/1	122	500-1000	Yes
EMB1501080	16.22	n/a	n/a	Coastal1	n/a	520	<500	No
EMB1501174	17.19	n/a	n/a	PROW8846	698/20/1	39	<500	Yes
WALL1500060	16.25	n/a	n/a	Coastal1	n/a	149	0	No
WALL1500060	16.25	n/a	n/a	PROW15213	48/1	65	0	No
WALL1500060	16.23	n/a	n/a	Coastal1	n/a	60	0	No
WALL1500078	16.22	n/a	n/a	Coastal1	n/a	382	<500	No
WALL1500194	17.9	n/a	n/a	Coastal1	n/a	316	0	No
WALL1500194	17.9	n/a	n/a	PROW8818	783/6/2	114	0	No
WALL1500221	16.18	n/a	n/a	Coastal1	n/a	1349	0	No
WALL1500221	16.18	n/a	n/a	PROW13078	560/13	361	0	No
WALL1500221	16.20	n/a	n/a	Coastal1	n/a	220	0	No
WALL1500221	16.18	n/a	n/a	PROW13060	560/11/1	129	0	No
WALL1500221	16.18	n/a	n/a	PROW13049	560/11/3	74	0	No
WALL1500221	16.18	n/a	n/a	PROW13048	560/12	64	0	No
WALL1500221	16.20	n/a	n/a	PROW13006	560/4	57	0	No
WALL1500221	16.18	n/a	n/a	PROW13064	560/11/2	56	0	No
WALL1500635	16.22	n/a	n/a	Coastal1	n/a	372	<500	No
WALL1500635	16.21	16.22	n/a	Coastal1	n/a	31	<500	No
WALL1500657	16.21	n/a	n/a	Coastal1	n/a	345	<500	No
WALL1500718	19.10	n/a	n/a	Coastal1	n/a	348	0	No
WALL1500718	19.10	n/a	n/a	PROW12670	397/51	113	0	No

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
WALL1500718	19.10	n/a	n/a	PROW12662	397/60/3	69	0	No
WALL1500763	16.25	n/a	n/a	Coastal1	n/a	432	<500	No
WALL1500780	16.21	n/a	n/a	Coastal1	n/a	531	0	No
WALL1500845	16.25	n/a	n/a	Coastal1	n/a	245	<500	No
WALL1500910	16.22	n/a	n/a	Coastal1	n/a	99	0	No
WALL1600025	16.22	n/a	n/a	Coastal1	n/a	252	<500	No
WALL1700161	16.21	n/a	n/a	Coastal1	n/a	98	0	No
WALL1700162	16.21	n/a	n/a	Coastal1	n/a	111	0	No

**Table B.3. 25:** Monmouthshire – Epoch 1 (2005-2025).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
WALL1500671	WYE1	n/a	n/a	Coastal11	n/a	131	0	No
WALL1500431	WYE1	n/a	n/a	Coastal11	n/a	343	0	No
EMB1501227	WYE1	n/a	n/a	Coastal11	n/a	131	0	No
WALL1500218	WYE1	n/a	n/a	Coastal11	n/a	103	0	No
WALL1500565	WYE1	n/a	n/a	Coastal11	n/a	46	0	No
WALL1500197	WYE1	n/a	n/a	Coastal11	n/a	13	0	No
WALL1500525	WYE1	n/a	n/a	Coastal11	n/a	2	0	No

**Table B.3. 26:** Monmouthshire – Epoch 2 (2025-2055).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
WALL1500671	WYE1	n/a	n/a	Coastal11	n/a	131	0	No
WALL1500431	WYE1	n/a	n/a	Coastal11	n/a	343	0	No
EMB1501227	WYE1	n/a	n/a	Coastal11	n/a	131	0	No
WALL1500218	WYE1	n/a	n/a	Coastal11	n/a	103	0	No
WALL1500565	WYE1	n/a	n/a	Coastal11	n/a	46	0	No
WALL1500197	WYE1	n/a	n/a	Coastal11	n/a	13	0	No
WALL1500525	WYE1	n/a	n/a	Coastal11	n/a	2	0	No

**Table B.3. 27:** Monmouthshire – Epoch 3 (2055-2105).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1501227	WYE1	n/a	n/a	Coastal11	n/a	131	0	No
WALL1500197	WYE1	n/a	n/a	Coastal11	n/a	13	0	No
WALL1500218	WYE1	n/a	n/a	Coastal11	n/a	103	0	No
WALL1500431	WYE1	n/a	n/a	Coastal11	n/a	343	0	No
WALL1500525	WYE1	n/a	n/a	Coastal11	n/a	2	0	No
WALL1500565	WYE1	n/a	n/a	Coastal11	n/a	46	0	No
WALL1500671	WYE1	n/a	n/a	Coastal11	n/a	131	0	No

**Table B.3. 28:** Newport – Epoch 1 (2005–2025).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1500446	NEW3	n/a	n/a	PROW52790	109/34	38	<500	No
EMB1501106	NEW3	n/a	n/a	PROW52752	109/1	6	<500	No

**Table B.3. 29:** Newport – Epoch 2 (2025–2055).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1500446	NEW3	n/a	n/a	PROW52790	109/34	38	<500	No
EMB1501106	NEW3	n/a	n/a	PROW52752	109/1	6	<500	No



**Table B.3. 30:** Newport – Epoch 3 (2055–2105).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1500446	NEW3	n/a	n/a	PROW52790	109/34	38	<500	No
EMB1501106	NEW3	n/a	n/a	PROW52752	109/1	6	<500	No

**Table B.3. 31:** Pembrokeshire – Epoch 1 (2005-2025).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
PEM_NGB4	2.10	2.11	n/a	PROW71882	607/CP/385	620	0	No
PEM_NGB4	2.10	2.11	n/a	Coastal16	n/a	617	0	No
PEM_NGB3	2.11	n/a	n/a	Coastal16	n/a	456	>1000	Yes
PEM_NGB3	2.11	n/a	n/a	PROW71882	607/CP/385	452	>1000	Yes
PEM_NGB7	2.10	n/a	n/a	Coastal16	n/a	280	<500	No
PEM_NGB7	2.10	n/a	n/a	PROW71882	607/CP/385	280	<500	No
ADD65	PU 21.2	n/a	n/a	Coastal16	n/a	273	<500	No
PEM_AA13	PU 16.1	n/a	n/a	PROW72091	32/CP/596	271	<500	No
WALL1500438	PU 16.1	n/a	n/a	PROW72091	32/CP/596	278	0	No
ADD65	PU 21.2	n/a	n/a	PROW71789	751/CP/291	270	<500	No
PEM_LHA3	2.1	n/a	n/a	Coastal16	n/a	268	0	No
PEM_LHA3	2.1	n/a	n/a	PROW71717	768/CP/219	225	0	No
EMB1500082	PU 16.1	n/a	n/a	Coastal16	n/a	210	<500	No
EMB1500138	2.12	n/a	n/a	Coastal16	n/a	159	0	No
EMB1500138	2.12	n/a	n/a	PROW71882	607/CP/385	157	0	No
PEM_AA13	PU 16.1	n/a	n/a	Coastal16	n/a	142	<500	No
WALL1500438	PU 16.1	n/a	n/a	Coastal16	n/a	156	0	No
PEM_AA13	PU 16.1	n/a	n/a	PROW70303	32/1/32	132	<500	No
WALL1500438	PU 16.1	n/a	n/a	PROW70303	32/1/32	129	0	No
PEM_NGB4	2.10	n/a	n/a	PROW71382	607/80/20	85	0	No
ADD65	PU 21.2	n/a	n/a	Coastal17	n/a	80	<500	No
ADD65	PU 21.2	n/a	n/a	PROW71780	549/CP/282	77	<500	No
EMB1500138	2.12	n/a	n/a	PROW71381	82/5/36	69	0	No
PEM_NGB2	2.11	n/a	n/a	Coastal16	n/a	85	>1000	Yes
PEM_NGB2	2.11	n/a	n/a	PROW71882	607/CP/385	84	>1000	Yes
PEM_LHA3	2.1	n/a	n/a	PROW71723	768/CP/225	43	0	No
PEM_AA01	PU 16.3	n/a	n/a	Coastal16	n/a	41	<500	No

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
WALL1500211	PU 16.3	n/a	n/a	Coastal16	n/a	41	<500	No
PEM_AA01	PU 16.3	n/a	n/a	PROW72091	32/CP/596	33	<500	No
WALL1500211	PU 16.3	n/a	n/a	PROW72091	32/CP/596	33	<500	No
EMB1500138	2.11	2.12	n/a	PROW71882	607/CP/385	24	0	No
EMB1500138	2.11	2.12	n/a	Coastal16	n/a	23	0	No
PEM_NPPC9	4.14	n/a	n/a	Coastal16	n/a	23	<500	No
PEM_NPPC9	4.14	n/a	n/a	PROW71545	604/CP/47	23	<500	No
PEM_AA01	PU 16.3	n/a	n/a	PROW72097	32/CP/608	22	<500	No
WALL1500211	PU 16.3	n/a	n/a	PROW72097	32/CP/608	23	<500	No

**Table B.3. 32:** Pembrokeshire – Epoch 2 (2025-2055).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
PEM_NGB4	2.10	2.11	n/a	PROW71882	607/CP/385	620	0	No
PEM_NGB4	2.10	2.11	n/a	Coastal16	n/a	617	0	No
PEM_NGB3	2.11	n/a	n/a	Coastal16	n/a	456	>1000	Yes
PEM_NGB3	2.11	n/a	n/a	PROW71882	607/CP/385	452	>1000	Yes
PEM_NGB7	2.10	n/a	n/a	Coastal16	n/a	280	<500	No
PEM_NGB7	2.10	n/a	n/a	PROW71882	607/CP/385	280	<500	No
ADD65	PU 21.2	n/a	n/a	Coastal16	n/a	273	<500	No
PEM_AA13	PU 16.1	n/a	n/a	PROW72091	32/CP/596	271	<500	No
WALL1500438	PU 16.1	n/a	n/a	PROW72091	32/CP/596	278	0	No
ADD65	PU 21.2	n/a	n/a	PROW71789	751/CP/291	270	<500	No
PEM_LHA3	2.1	n/a	n/a	Coastal16	n/a	268	0	No
PEM_LHA3	2.1	n/a	n/a	PROW71717	768/CP/219	225	0	No
EMB1500082	PU 16.1	n/a	n/a	Coastal16	n/a	210	<500	No
EMB1500138	2.12	n/a	n/a	Coastal16	n/a	159	0	No
EMB1500138	2.12	n/a	n/a	PROW71882	607/CP/385	157	0	No
PEM_AA13	PU 16.1	n/a	n/a	Coastal16	n/a	142	<500	No
WALL1500438	PU 16.1	n/a	n/a	Coastal16	n/a	156	0	No
PEM_BRHB1	2.5	n/a	n/a	Coastal16	n/a	142	0	No
PEM_BRHB1	2.5	n/a	n/a	PROW71723	768/CP/225	141	0	No
PEM_AA13	PU 16.1	n/a	n/a	PROW70303	32/1/32	132	<500	No
WALL1500438	PU 16.1	n/a	n/a	PROW70303	32/1/32	129	0	No
PEM_GEKB7	PU 20.6	n/a	n/a	PROW71819	567/CP/322	157	0	No
PEM_GEKB7	PU 20.6	n/a	n/a	Coastal16	n/a	158	0	No
PEM_NGB4	2.10	n/a	n/a	PROW71382	607/80/20	85	0	No
ADD65	PU 21.2	n/a	n/a	Coastal17	n/a	80	<500	No
ADD65	PU 21.2	n/a	n/a	PROW71780	549/CP/282	77	<500	No
EMB1500138	2.12	n/a	n/a	PROW71381	82/5/36	69	0	No

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
PEM_NGB2	2.11	n/a	n/a	Coastal16	n/a	85	>1000	Yes
PEM_BRHA3	2.5	n/a	n/a	PROW71723	768/CP/225	61	<500	No
PEM_BRHA3	2.5	n/a	n/a	Coastal16	n/a	61	<500	No
PEM_NGB2	2.11	n/a	n/a	PROW71882	607/CP/385	84	>1000	Yes
PEM_LHA3	2.1	n/a	n/a	PROW71723	768/CP/225	43	0	No
PEM_AA01	PU 16.3	n/a	n/a	Coastal16	n/a	41	<500	No
WALL1500211	PU 16.3	n/a	n/a	Coastal16	n/a	41	<500	No
PEM_BRHA4	2.5	n/a	n/a	Coastal16	n/a	41	<500	No
PEM_BRHA4	2.5	n/a	n/a	PROW71723	768/CP/225	41	<500	No
PEM_BRHA1	2.5	n/a	n/a	Coastal16	n/a	34	0	No
PEM_AA01	PU 16.3	n/a	n/a	PROW72091	32/CP/596	33	<500	No
WALL1500211	PU 16.3	n/a	n/a	PROW72091	32/CP/596	34	<500	No
PEM_GEKB6	PU 20.6	n/a	n/a	Coastal16	n/a	33	0	No
PEM_GEKB6	PU 20.6	n/a	n/a	PROW71819	567/CP/322	33	0	No
EMB1500138	2.11	2.12	n/a	PROW71882	607/CP/385	24	0	No
EMB1500138	2.11	2.12	n/a	Coastal16	n/a	23	0	No
PEM_NPPC9	4.14	n/a	n/a	Coastal16	n/a	23	<500	No
PEM_BRHA1	2.5	n/a	n/a	PROW71723	768/CP/225	23	0	No
PEM_NPPC9	4.14	n/a	n/a	PROW71545	604/CP/47	23	<500	No
PEM_AA01	PU 16.3	n/a	n/a	PROW72097	32/CP/608	22	<500	No
WALL1500211	PU 16.3	n/a	n/a	PROW72097	32/CP/608	23	<500	No
PEM_BRHA1	2.5	n/a	n/a	PROW71890	768/CP/393	8	0	No

**Table B.3. 33:** Pembrokeshire – Epoch 3 (2055-2105).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
ADD65	PU 21.2	n/a	n/a	Coastal16	n/a	273	<500	No
ADD65	PU 21.2	n/a	n/a	PROW71789	751/CP/291	270	<500	No
ADD65	PU 21.2	n/a	n/a	Coastal17	n/a	80	<500	No
ADD65	PU 21.2	n/a	n/a	PROW71780	549/CP/282	77	<500	No
EMB1500082	PU 16.1	n/a	n/a	Coastal16	n/a	210	<500	No
EMB1500138	2.12	n/a	n/a	Coastal16	n/a	159	0	No
EMB1500138	2.12	n/a	n/a	PROW71882	607/CP/385	157	0	No
EMB1500138	2.12	n/a	n/a	PROW71381	82/5/36	69	0	No
EMB1500138	2.11	2.12	n/a	PROW71882	607/CP/385	24	0	No
EMB1500138	2.11	2.12	n/a	Coastal16	n/a	23	0	No
PEM_AA01	PU 16.2	PU 16.3	n/a	PROW72091	32/CP/596	160	<500	No
PEM_AA01	PU 16.2	PU 16.3	n/a	Coastal16	n/a	159	<500	No
PEM_AA01	PU 16.2	PU 16.3	n/a	PROW72097	32/CP/608	22	<500	No
PEM_AA02	PU 16.2	n/a	n/a	PROW72091	32/CP/596	72	0	No
PEM_AA02	PU 16.2	n/a	n/a	Coastal16	n/a	62	0	No
PEM_AA13	PU 16.1	PU 16.2	n/a	PROW72091	32/CP/596	491	<500	No
PEM_AA13	PU 16.1	PU 16.2	n/a	Coastal16	n/a	488	<500	No
PEM_AA13	PU 16.1	PU 16.2	n/a	PROW70303	32/1/32	132	<500	No
PEM_BRHA1	2.6	n/a	n/a	Coastal16	n/a	34	0	No
PEM_BRHA1	2.6	n/a	n/a	PROW71723	768/CP/225	23	0	No
PEM_BRHA1	2.6	n/a	n/a	PROW71890	768/CP/393	8	0	No
PEM_BRHA3	2.5	n/a	n/a	PROW71723	768/CP/225	61	<500	No
PEM_BRHA3	2.5	n/a	n/a	Coastal16	n/a	61	<500	No
PEM_BRHA4	2.5	n/a	n/a	Coastal16	n/a	41	<500	No
PEM_BRHA4	2.5	n/a	n/a	PROW71723	768/CP/225	41	<500	No
PEM_BRHB1	2.4	2.5	n/a	Coastal16	n/a	142	0	No
PEM_BRHB1	2.4	2.5	n/a	PROW71723	768/CP/225	141	0	No



Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
PEM_BRHB2	2.4	n/a	n/a	PROW71723	768/CP/225	15	<500	No
PEM_BRHB2	2.4	n/a	n/a	Coastal16	n/a	15	<500	No
PEM_BRHB5	2.4	n/a	n/a	PROW71723	768/CP/225	225	<500	No
PEM_BRHB5	2.4	n/a	n/a	Coastal16	n/a	224	<500	No
PEM_BRHB6	2.4	n/a	n/a	Coastal16	n/a	52	<500	No
PEM_BRHB6	2.4	n/a	n/a	PROW71723	768/CP/225	51	<500	No
PEM_BRHC1	2.4	n/a	n/a	PROW71723	768/CP/225	33	0	No
PEM_BRHC1	2.4	n/a	n/a	Coastal16	n/a	33	0	No
PEM_BRHC2	2.4	n/a	n/a	PROW71723	768/CP/225	11	0	No
PEM_BRHC2	2.4	n/a	n/a	Coastal16	n/a	10	0	No
PEM_DALB1	PU 21.3	n/a	n/a	Coastal16	n/a	33	0	No
PEM_DALB1	PU 21.3	n/a	n/a	PROW71779	199/CP/281	33	0	No
PEM_DALB1	PU 21.3	n/a	n/a	PROW71084	199/15/26	12	0	No
PEM_DALB2	PU 21.3	n/a	n/a	Coastal16	n/a	23	0	No
PEM_DALB2	PU 21.3	n/a	n/a	PROW71779	199/CP/281	23	0	No
PEM_DALB3	PU 21.3	n/a	n/a	PROW71080	199/15/2	125	0	No
PEM_DALB3	PU 21.3	n/a	n/a	PROW71779	199/CP/281	58	0	No
PEM_DALB3	PU 21.3	n/a	n/a	Coastal16	n/a	46	0	No
PEM_DALB3	PU 21.3	n/a	n/a	PROW71079	199/15/3	19	0	No
PEM_DALC1	PU 21.3	n/a	n/a	Coastal16	n/a	156	0	No
PEM_DALC1	PU 21.3	n/a	n/a	PROW71779	199/CP/281	153	0	No
PEM_DALC3	PU 21.3	n/a	n/a	PROW71779	199/CP/281	15	0	No
PEM_DALC3	PU 21.3	n/a	n/a	Coastal16	n/a	15	0	No
PEM_DALC4	PU 21.3	n/a	n/a	Coastal16	n/a	51	0	No
PEM_DALC4	PU 21.3	n/a	n/a	PROW71779	199/CP/281	51	0	No
PEM_GEKB6	PU 20.6	n/a	n/a	Coastal16	n/a	33	0	No
PEM_GEKB6	PU 20.6	n/a	n/a	PROW71819	567/CP/322	33	0	No
PEM_GEKB7	PU 20.6	n/a	n/a	PROW71819	567/CP/322	157	0	No
PEM_GEKB7	PU 20.6	n/a	n/a	Coastal16	n/a	158	0	No

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
PEM_LHA3	2.1	2.2	n/a	Coastal16	n/a	268	0	No
PEM_LHA3	2.1	2.2	n/a	PROW71717	768/CP/219	225	0	No
PEM_LHA3	2.1	2.2	n/a	PROW71723	768/CP/225	43	0	No
PEM_NGB2	2.11	n/a	n/a	Coastal16	n/a	85	>1000	Yes
PEM_NGB2	2.11	n/a	n/a	PROW71882	607/CP/385	84	>1000	Yes
PEM_NGB3	2.11	n/a	n/a	Coastal16	n/a	456	>1000	Yes
PEM_NGB3	2.11	n/a	n/a	PROW71882	607/CP/385	452	>1000	Yes
PEM_NGB4	2.10	2.11	n/a	PROW71882	607/CP/385	620	0	No
PEM_NGB4	2.10	2.11	n/a	Coastal16	n/a	617	0	No
PEM_NGB4	2.10	n/a	n/a	PROW71382	607/80/20	85	0	No
PEM_NGB7	2.10	n/a	n/a	Coastal16	n/a	280	<500	No
PEM_NGB7	2.10	n/a	n/a	PROW71882	607/CP/385	280	<500	No
PEM_NPPC2	4.15	n/a	n/a	Coastal16	n/a	42	<500	No
PEM_NPPC2	4.15	n/a	n/a	PROW71545	604/CP/47	42	<500	No
PEM_NPPC9	4.14	n/a	n/a	Coastal16	n/a	23	<500	No
PEM_NPPC9	4.14	n/a	n/a	PROW71545	604/CP/47	23	<500	No
WALL1500211	PU 16.2	PU 16.3	n/a	PROW72091	32/CP/596	229	<500	No
WALL1500211	PU 16.2	PU 16.3	n/a	Coastal16	n/a	222	<500	No
WALL1500211	PU 16.2	PU 16.3	n/a	PROW72097	32/CP/608	23	<500	No
WALL1500438	PU 16.1	PU 16.2	n/a	PROW72091	32/CP/596	503	0	No
WALL1500438	PU 16.1	PU 16.2	n/a	Coastal16	n/a	507	0	No
WALL1500438	PU 16.1	PU 16.2	n/a	PROW70303	32/1/32	129	0	No

**Table B.3. 34:** Powys – Epoch 1 (2005–2025).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
ADD53	10.10	n/a	n/a	PROW35037	106/1/4	185	<500	No
ADD52	10.10	n/a	n/a	PROW35037	106/1/4	213	<500	No
EMB1500589	10.10	n/a	n/a	PROW35037	106/1/4	62	<500	Yes

**Table B.3. 35:** Powys - Epoch 2 (2025-2055).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
ADD53	10.10	n/a	n/a	PROW35037	106/1/4	185	<500	No
ADD52	10.10	n/a	n/a	PROW35037	106/1/4	213	<500	No
EMB1500589	10.10	n/a	n/a	PROW35037	106/1/4	62	<500	Yes

**Table B.3. 36:** Powys – Epoch 3 (2055-2105).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
ADD52	10.10	n/a	n/a	PROW35037	106/1/4	213	<500	No
ADD53	10.10	n/a	n/a	PROW35037	106/1/4	185	<500	No
EMB1500589	10.10	n/a	n/a	PROW35037	106/1/4	62	<500	Yes

**Table B.3. 37:** Swansea – Epoch 1 (2005-2025).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1501289	PU 12.1	n/a	n/a	Coastal19	n/a	237	<500	No
EMB1500840	PU 12.6	n/a	n/a	Coastal19	n/a	14	0	No

**Table B.3. 38:** Swansea – Epoch 2 (2025-2055).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1501289	PU 12.1	n/a	n/a	Coastal19	n/a	237	<500	No
EMB1500840	PU 12.6	n/a	n/a	Coastal19	n/a	14	0	No

**Table B.3. 39:** Swansea – Epoch 3 (2055-2105).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
EMB1500840	PU 12.6	n/a	n/a	Coastal19	n/a	14	0	No
EMB1501289	PU 12.1	n/a	n/a	Coastal19	n/a	237	<500	No

**Table B.3. 40:** Vale of Glamorgan – Epoch 1 (2005-2025).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
WALL1500919	PU 5.1	n/a	n/a	PROW72648	739/EX582	89	0	No
WALL1500919	PU 5.1	n/a	n/a	Coastal25	n/a	62	0	No
WALL1500919	PU 5.1	n/a	n/a	PROW72697	739/EX636	49	0	No

**Table B.3. 41:** Vale of Glamorgan – Epoch 2 (2025-2055).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
WALL1500919	PU 5.1	n/a	n/a	PROW72648	739/EX582	75	0	No
WALL1500919	PU 5.1	n/a	n/a	Coastal25	n/a	62	0	No
WALL1500919	PU 5.1	n/a	n/a	PROW72697	739/EX636	49	0	No

**Table B.3. 42:** Vale of Glamorgan – Epoch 3 (2055-2105).

Defence ID	Affecting Policy1	Affecting Policy2	Affecting Policy3	Affected Path ID	Path Ref	Path Affected Length_m	Inland Flood Reach (m)	Additional Paths Affected
WALL1500749	PU 2.3	n/a	n/a	Coastal25	n/a	831	0	No
WALL1500919	PU 5.1	n/a	n/a	PROW72648	739/EX582	122	0	No
WALL1500919	PU 5.1	n/a	n/a	Coastal25	n/a	83	0	No
WALL1500919	PU 5.1	n/a	n/a	PROW72697	739/EX636	49	0	No

## Data Archive Appendix

Data outputs associated with this project are archived in on server-based storage at Natural Resources Wales.

The data archive contains:

- [A] The final report in Microsoft Word and Adobe PDF formats.
- [B] A full set of maps produced in JPEG format.
- [C] A series of GIS layers on which the maps in the report are based with a series of word documents detailing the data processing and structure of the GIS layers

Metadata for this project is publicly accessible through Natural Resources Wales' Library Catalogue <https://libcat.naturalresources.wales> (English Version) and <https://catllyfr.cyfoethnaturiol.cymru> (Welsh Version) by searching 'Dataset Titles'. The metadata is held as record no 124997.

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