Workbook for Risk Assessment and Adaptation Planning Part 2: Assessment

This document is the second part of the Workbook for the Adapt Northern Heritage tool Risk Assessment and Adaptation Planning: Guidance on Managing the Impacts of Climate Change on Northern Historic Places.

This Workbook should be used in conjunction with this Guidance.

This part of the Workbook should be used to perform an assessment of a historic place, as part of the risk management process described in the Guidance. To commence this process, please start with part 1 of this Workbook in order to select an Assessment Level and Assessment Type and identify the historic places to be assessed.

If you have chosen the Assessment Type **Singular Historic Place**, please complete this document.

If you have chosen the Assessment Type **Group of Historic Places**, please complete this document for each historic place in the group, for which an assessment is required.

If you have chosen the Assessment Type **Place Categories**, please complete this document for each place category, for which an assessment is required.

For assessments at **Standard Level** only tables marked in green should be completed.

For assessments at **Advanced Level** tables marked in green and blue should be completed.

For assessments at **Advanced Plus Level** tables in green and blue should be completed and tables in purple can be completed as required.

Grey table cells indicate information carried over from previous tables in the risk management process. Yellow cells indicated information transferred from scale tables in the Guidance.

In this document, additional rows in tables can be created as required. For Adaptation Planning, tables can be duplicated as required. Rows and tables not used can be deleted. This cover page and the last page of this document can be deleted after completion of the assessment.

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Historic Places and Cultural Significance

Historic place overview

Name of historic place to b	Place ID if applicable					
Description of historic place and its wider surroundings						
Brief description of historic place						
Brief description of place's immediate surroundings						
Brief description of places' wider environs						

Place elements

Place elements (Advanced Level)							
Identify place elements e.g. walls, roof, bridge, woodland, building	Principal material / matter e.g. live organic matter, peat, stone, timber	Description / comments if required					

Cultural significance

Con	Conservation policies						
ID	Document title	Author(s)	Version	Date			
1							
2							
3							

Cultural heritage designations									
Designation		Title		Reference	Comments				
Rating of key cultural significance values									
Key value		Rating	Comments /	reasons					
Implications of cultu	ral heritag	e designa	ations (Adva	nced Level)					
Designation	Title		Conferred mar	nagement implicat	ions				
Cultural significance	Cultural significance ratings of place elements (Advanced Level)								
Place elements	Rating			ing					

Climate, hazards and impacts

Site observations, hazards and climate drivers (optional)

Observed damages and deterioration								
Damage and deterioration observed at historic place	Impact type	Environmental hazard associated with observations	Climate drivers					
	☑ damage☐ deterioration							
	☑ damage ☐ deterioration							
	☑ damage☐ deterioration							

Climate drivers and environmental hazards									
Climate drivers	Climate trer	nds	Environmental ha	azards					
Description of	Observed	Projected	Description of	Increase in relevar	nce				
variables	trends	trends	hazards	observed	projected				
				□ increase	□ increase				
				☐ decrease	☐ decrease				
				□ no change	□ no change				
				□ increase	☐ increase				
				☐ decrease	☐ decrease				
				□ no change	□ no change				

Impacts on hi	Impacts on historic place								
Environmental haz	zard	Impacts on histor	ric place						
Description of haz	ard	Description of ob	served or potent	ial impacts II	Impact type				
					damage deterioration				
					damage deterioration				
					damage deterioration				
					damage deterioration				
Impacts on hi	Impacts on historic place with affected place elements (Advanced Level)								
Environmental haz	zards	Impacts on histori	c place	Place elements affected					
Impacts on hi	istoric place	with affected lo	ocations (Adv	anced Level)					
Environmental hazards	Impacts on historic place	Place elements affected	Exposure duration of impact	Impact intensity	Impact likelihood				
			☐ decreasing ☐ increasing ☐ no change Comments:	☐ decreasing ☐ increasing ☐ no change Comments:	☐ decreasing ☐ increasing ☐ no change Comments:				
			☐ decreasing ☐ increasing ☐ no change Comments:	☐ decreasing ☐ increasing ☐ no change Comments:	☐ decreasing ☐ increasing ☐ no change Comments:				

Hazard register

Hazard Reg	ster				(Advanced Level)						
Climate drivers	Climate trer	nds	Environmental hazards			Impact on historic place					
Description of variables	Observed trends	Projected trends	Description of observed or potential hazard	Change in relevo	ance projected	Description of observed or potential impacts	Impact types	Affected location	Length of exposure to impact	Intensity of impact	Likelihood of impact to occur
				☑ increase ☐ decrease ☐ no change	☑ increase ☐ decrease ☐ no change		☑ damage ☐ deterioration		☐ decreasing ☐ increasing ☑ no change	□decreasing ☑ increasing □ no change	☐ decreasing ☑ increasing ☐ no change
				☑ increase ☐ decrease ☐ no change	☑ increase ☐ decrease ☐ no change		☑ damage ☐ deterioration		☑ decreasing ☐ increasing ☐ no change	□decreasing ☑ increasing □ no change	☐ decreasing ☑ increasing ☐ no change

Risk register

Risk register for mu	Risk register for multiple time horizons										
Impact Time horizon #1: Today							Time horizon #2: !				
Impact ID and description	Likelihood rating	•		Inherent risk rating definition	Acceptability of risk	Recommendations for action	Likelihood rating	1 '		Inherent risk rating definition	 Recommendations for action

Risk register	isk register for multiple time horizons (Advanced Level)																	
Impact	Place elements			Time horizon #1: Today			Time horizon #2: !				Time horizon #3: 1							
	Place element affected	Significance rating	Vulnerability rating	Intensity rating			Inherent risk rating	Heritage risk rating	Intensity rating	Likelihood rating	Severity rating		Heritage risk rating		Likelihood rating	,	Inherent risk rating	Heritage risk rating

Summary of risk register

Sumr Level	nary of Risk Register (ind	 □ Standard level: Risks ratings are 0-16 (inherent risk) □ Advanced level: Risk ratings are 0-64 (heritage risk) 						
List of	unacceptable risks							
	isks consider as unacceptable I by decreasing risk rating	at the resp	pective time h	norizons				
Impact ID	Description			Risk rating				
טו	Description		Time horizon	Time horizon 2	Time horizon 3			
				Today	HOHZOH Z	110112011 3		
	t-ranked acceptable risks multiple if of the same rating	at time hor	rizon #1)					
Impact								
ID	Description			Risk rating				
				Time horizon 1	Time horizon 2	Time horizon 3		
				Today				
Summa	ary of increasing risks							
Summa	ary of decreasing risks							
Effect	of occurrence of impacts on ke	ey cultural l	heritage value	es				
Key va	lues	Current rating	Revised rating	Comments				
Conclu	sions							

Adaptation Planning

Identifying adaptation measures

For each considered impact, the following table must be completed.

When following *Standard Level* assessment, please refer to the inherent risk rating. For *Advanced Level* assessment, please use the heritage risk rating.

Impa	Impact to be investigated							
Impact description								
Associa	ated hazard							
Risk rat	ting							
Impact	ID							
Long	glist of adaptation	on measures						
PROTE	СТ							
P1								
P2								
STREN	GTHEN							
S1								
S2								
RELOC	ATE							
R1								
R2								
RESPO	ND TO DAMAGE							
D1								
D2								
MANA	GING LOSS							
L1								
L2	L2							
MANA	GE UNCERTAINTY							
I1								
12								

Appraising adaptation measures

Adaptation measure appraisal					
Impact / Measure ID					
Adaptation measure (short title)					
Details of measure (brief description)					
Adaptation type					
Location where measure would be installed (If working at Advanced Level, use place elements.)				
If adaptation type is Prote	ct, Strengthen, Relocate <i>or</i> Re	espond to Damage, use below	v table:		
Adaptation measure	es appraisal: Adjustmen	t of severity rating (Sta	ndard Level		
Effect of measure on risk The risk would be					
Associated effect on severity rating Severity rating would					
If the answer to the first query is left unchanged or increased, stop the appraisal of the measure concerned.					
Adaptation measure	e appraisal: Adjustment	of ratings (Advanced L	evel)		
Change to	Scale of change using refined responses of Error! Reference source not found.	Adjusting intensity / vulnerability rating using data from Error! Reference source not found.	Adjusting heritage risk rating		
exposure duration of place to impact					
magnitude of impact on place					
vulnerability of the place to impact					

If adaptation type is Managing Loss, use below table:				
Managing Loss appraisal				
How would the measure support communities?				
Which specific communities would be supported?				
Are the answers to the two questions above considered sufficiently relevant to explore measure further?	 Yes, explore this adaptation measure further No, file this idea of an adaption measure and proceed to next measure on long-list 			
If the answer to the last question was no, stop	o the appraisal of the measure concerned.			
If adaptation type is Manage Uncertainty, use	below table:			
Manage Uncertainty appraisal				
How would the considered measure reduce uncertainty?				
How would the considered measure support other relevant measures?				
Are the answers to the two questions above considered sufficiently relevant to explore measure further?	 Yes, explore this adaptation measure further No, file this idea of an adaption measure and proceed to next measure on long-list 			
If the answer to the last question was no, stop	o the appraisal of the measure concerned.			
Regardless of adaptation type, continue with	the table below:			
Potential effects on cultural signific	ance			
Descriptive rating of effect on cultural significance of the place	 □ unacceptably adverse □ acceptably adverse subject to mitigation □ acceptably adverse without mitigation □ neutral □ beneficial 			
If the response above was "subject to mitigation", name examples for how this might be achieved.				
If the answer to the first query was unacceptably adverse or was acceptably adverse subject to mitigation, with no suitable example identified in the second query, top the appraisal of the measure concerned.				

Regardless of adaptation type, continue with the table below, if assessing at Advanced Level:				
Potential economic, environmental and	d social effects (Advanced Level)			
Descriptive rating of economic effects	 □ unacceptably adverse □ acceptably adverse subject to mitigation □ acceptably adverse without mitigation □ neutral □ beneficial 			
Descriptive rating of environmental effects	 unacceptably adverse acceptably adverse subject to mitigation acceptably adverse without mitigation neutral beneficial 			
Descriptive rating of social effects	 unacceptably adverse acceptably adverse subject to mitigation acceptably adverse without mitigation neutral beneficial 			
If any of the responses above was "subject to mitigation", name examples for how this might be achieved.				
If the answer to the first query was unacceptably adverse or was acceptably adverse subject to mitigation, with no suitable example identified in the second query, stop the appraisal of the measure concerned.				

If an adaptation measure has not been rejected through the process above, please enter its details in the *Adaptation Measures Register* overleaf. Thereafter, assess the next adaptation measures from the longlist.

Once all longlisted adaptation measures have been appraised and accepted measures recorded in the *Adaptation Measures Register*, proceed to section Adaptation Strategy.

Adaptation Measures Register

Adaptation Measures Register					(Advanced Level)			
Impact investigated ID								
Impact / Measure ID	Adaptation measure (short title)	Adaptation type	Location where measure would be installed	Potential effect on cultural significance including mitigation example	Include in summary	Potential economic effects including mitigation example	Potential environmental effects including mitigation example	Potential social effects including mitigation example
			1		□ include			
					□ include			
Impact investigated ID								
Impact / Measure ID	Adaptation measure (short title)	Adaptation type	Location where measure would be installed	Potential effect on cultural significance including mitigation example	Include in summary	Potential economic effects including mitigation example	Potential environmental effects including mitigation example	Potential social effects including mitigation example
					□ include			
					□ include			

Summarising the adaptation measures

Summary of Adaptation Measures Register						
Impact / Measure ID	Adapta measui (short ti	re	Adaptation type	Location where measure would be installed	Potential effect on cultural significance including mitigation example	
Impact investigated					Impact ID	
Impact investigated					Impact ID	

Summaries for Groups of Historic Places and Place Categories

If you have chosen to assess a group of historic places, please include the following table.						
Ge	Geographic information (group of historic places)					
ID	Name of place	Place's address	Place's extent			
1						
2						
3						
Summary of assessment of group of historic places						

If you	If you have chosen to assess place categories, please include the following table.				
Geographic information (place categories)					
ID	Name of category	Description of category			
1					
2	2				
3					
Summary of assessment of place categories					

Advanced Plus: Adaptation Planning

Appraising feasibility and viability

Feasibility and viability assessment of adaptation measure					
Feasibility					
Complexity describe the complexity involved in the design, implementation and operation of the measure	 extremely complex highly complex moderate complexity simple very simple 				
Expertise / knowledge describe the availability and level of expertise and knowledge required to design and implement the measures	 □ readily available □ readily available but specialist □ not available but can be developed short term □ not available but might be developed mid-term □ not available and unlikely to be developed longer term 				
Responsible organisation identify the principal organisation responsible for the measure					
Viability					
Investment cost describe cost estimate for design, implementation and start-up of the measure	 □ very high cost □ high cost □ moderate cost □ low cost □ very low cost 				
Operation cost describe cost estimate for future operation and longer-term maintenance of the measure	 □ very high cost □ high cost □ moderate cost □ low cost □ very low cost 				
Timeframe describe suitable period or point in time to implement the measure		for example, in 30 years or in 2070 or when the first river flood reaches the building			

Barriers and limits, prerequisites, maladaptation and dependencies

Barriers and limits		
Restrictions	Mitigation activities	Barrier or
Identify restrictions which might prevent the measure's design and implementation	Identify activities to overcome the restriction	limit?
		□ barrier □ limit
		□ barrier □ limit
Prerequisites, maladaptation and o	lependencies	
Prerequisites Identify any activities or conditions required to a and implement measure	lesign	
Maladaptation Identify how, in future, the measure might hinde implementation of other measures	er the	
Dependencies List any measure(s) which could be beneficially combined with the measure investigated		
Assessment of pathways		
Pathways roadmap		
Insert here a single image / photograph of t	he produced pathways roadmap	
Describe each of the created pathways		
Name the preferred pathway, stating the rea	asons for this preference	
		C.1
State the actions, resources and responsibili preferred pathway	ties needed to commence the implementation	on of the
Define timescale for the next review of the a	adaptation pathways, including reason	

This is the end of the second part of the Workbook. Tables not used in the assessment above should now be deleted. This page and the front page of this document can be deleted also.

If you have chosen to assess a **singular historic place**, please proceed to part 3.

If you have chosen to assess a **group of historic places**, please complete another copy of this part 2 for the next required place. Once all places, for which an assessment is required, have been completed, please proceed to part 3.

If you have chosen to assess **place categories**, please complete another copy of this part 2 for the next required category. Once all categories, for which an assessment is required, have been completed, please proceed to part 3.