

FORMAT		
1. Name of resource	Archival Adaptation to Climate Change	
2. Location	https://www.tandfonline.com/doi/pdf/10.1080/15487733.2015.11908146?needAccess=true	
3. Alternative location		
4. Author[s]	Tansey, E.	
5. Publisher/producer/host	Sustainability: Science, Practice and Policy	
6. Year	2015	
7. Suggested citation	Tansey, E. (2015). Archival adaptation to climate change. <i>Sustainability: Science, Practice and Policy</i> 11(2): 45-56, DOI: 10.1080/15487733.2015.11908146.	
8. Languages in which available	English	
9. Geographic area resource relates to	Global (primarily US)	
10. Does the resource relate to a specific time frame?		
11. Type	Report	X
	Toolkit/Framework/Roadmap	
	Sign-post to other resource (database)	
	Case studies	
	Other	
12. If this is part of an initiative, what is the initiative?		
COLLECTIONS AND COLLECTIONS-BASED INSTITUTIONS		
13. Explicit links to collections	Yes	
14. Explicit links to museums/libraries/archives	Yes	
15. Types of institutions the resource covers	Museums	
	Archives	X
	Libraries	
	Other	
16. Does the resource relate to specific disciplines?	Arts, humanities and social sciences: philosophy, psychology, religion, social sciences, law, politics, language, arts and recreation, architecture, literature, history, geography and ethnology,	X

	anthropology, archaeology	
	Science, natural history, technology, medicine, engineering, manufacturing	X
17. If no explicit links to collections, justification for inclusion		
HOW IT CONTRIBUTES TO SUSTAINABLE DEVELOPMENT		
18. Collections-related activities the resource relates to (mark all that apply)		
Develop collections to protect and safeguard wider cultural and natural heritage more effectively, for example by targeting collecting to threatened forms of heritage in strategic ways		
Use collections to promote learning and educational opportunities that contribute to sustainable development more effectively, for example education for sustainable development and sustainable lifestyles, human rights, gender equality, promotion of a culture of peace and non-violence, global citizenship and appreciation of cultural diversity and of culture’s contribution to sustainable development and/or skills development relating to collections		
Use collections to promote cultural participation/social inclusion more effectively, for example by reducing barriers to participation, to ensure no-one is ‘left behind’		
Use collections to promote sustainable tourism more effectively, for example by developing new products based on local cultural heritage, and/or considering the rights of stakeholder groups in relation to collections		
Use collections to support research that contributes to sustainable development (including all forms of personal and self-directed research at all levels that make use of stored collections) more effectively, for example by providing effective facilities, collections and information to meet researchers’ needs		
Make decisions around collections that contribute to sustainable development more effectively	X	
i. employment (recruiting, staff training, staff safety)	X	
ii. energy consumption, greenhouse gas emissions, reduction, monitoring and reporting		
iii. waste management and reduction of waste		
iv. transport (forms of transport, energy use)		
v. commercial activities including copyright and IP		
vi. governance and management	X	
vii. security, disaster preparedness and risk reduction	X	
Direct external leadership, partnerships and collaborations towards sustainable development more effectively, for example	X	

by developing impactful partnerships		
19. Does the resource relate clearly to any international conventions (mark all that apply)?		
Culture conventions:		
1952, 71 Protection of Copyright and Neighbouring Rights		
1954 Protection of Cultural Property in the Event of Armed Conflict	X	
1970 Fighting Against the Illicit Trafficking of Cultural Property		
1972 Protection of the World Cultural and Natural Heritage		
2001 Protection of the Underwater Cultural Heritage		
2003 Safeguarding of the Intangible Cultural Heritage		
2005 Protection and Promotion of the Diversity of Cultural Expressions		
Rio Conventions:		
Convention on Biological Diversity (CBD), Convention to Combat Desertification (UNCCD), Framework Convention on Climate Change (UNFCCC)		
AIMS AND CONTENT		
20. What issues does the resource aim to address?	<p>“Discussion of the likely impacts of climate change on archives is significantly deficient in the archival profession. Archives hold rare and unique materials that are irreplaceable and institutional adaptation to climate change is critical to the survival of these resources. The earliest effects of climate change are likely to be increased weather events that threaten the physical safety of holdings. Hurricanes, floods, and fires pose particular risks to archives due to potential damage to buildings as well as from limitations of local infrastructure to rapidly respond to disasters. Disaster preparedness for archives needs to include planning responses to a wide variety of situations that threaten holdings. As societies begin to adapt to climate change, archivists should consider how values of sustainability and resiliency might inform archival practice.”</p>	
21. Intended audience of resource	Archivists	
22. Process of development		
23. Organisation/structure/contents	<ul style="list-style-type: none"> • Introduction • Cultural heritage and climate change • Embedding sustainability and resilience in archival practice • Revisiting traditional archival practice • Sustainable choices that support resiliency • Disasters • Long-term adaptation • Sea-level rise 	

	<ul style="list-style-type: none"> • Future research • Conclusion
FRAMEWORKS	
24. Framework structure	<p>A framework “to envision how archivists could shift to sustainable and resilient practices that incorporate disaster awareness” revisited several core archival practices:</p> <ul style="list-style-type: none"> • Appraisal and acquisition • Arrangement and description • Preservation • Reference and access • Outreach and advocacy <p>“American archivists should consider the following topics to develop a robust professional response to climate change:</p> <ul style="list-style-type: none"> • Conduct a comprehensive census of financial and collection losses sustained by American archives due to disasters associated with global climate change. Currently, there is no accreditation body for American archives, so this effort would either have to be a research project (likely sponsored by a large organization such as the Society of American Archivists) or a reporting infrastructure would need to be established. • Examine archives that are developing or implementing climate-adaptation plans. More research is needed to determine whether any archives are formulating these plans or whether staff assume that the parent organization will take the lead on adaptation issues. • Investigate FEMA and insurance-company payouts to American archives for material losses. Collection of this information could help archivists inform stakeholders on the potential risks of inadequate facilities or staffing to care for records. • Prepare a comprehensive survey of American archival repositories located in geographically vulnerable areas threatened by sea-level rise. Particular attention should be paid to territories and associated states, many of which are far more vulnerable to rising sea levels due to their isolated oceanic geography than mainland archives. This information could be used to inform new priorities for archival grant programs such as the Institute for Museum and Library Services or the National Historical Publications and Records Commission.

	<p>These organizations may consider creating new grants to help archivists with collection adaptation and relocation efforts.</p> <ul style="list-style-type: none"> Assess the current state of regional and national coordination of cultural heritage emergency response organizations. Currently, many of these efforts are scattered and cultural heritage staff may be unaware of resources available during a crisis.
25. Relevant policy considerations	Yes
26. Resources for implementation identified	No
27. Specific assessment points/indicators/milestones/action plan for monitoring	Yes
28. ASPECTS OF SUSTAINABILITY COVERED BY RESOURCE (mark all that apply)	
People (social sustainability)	X
Planet (environmental sustainability)	X
Prosperity (economic sustainability)	X
Peace	X
Partnerships	X
29. CROSS-CUTTING CONSIDERATIONS COVERED BY RESOURCE (mark all that apply)	
Gender perspectives	
North and South perspectives	
HOW THE RESOURCE CONTRIBUTES TO AGENDA 2030 AND THE SDGs	
HOW AGENDA 2030 AND THE SDGs FEATURE IN THE RESOURCE	
30. SDGs and Agenda 2030 specifically mentioned?	No
31. SDGs specifically mentioned?	No
32. SDG targets specifically mentioned?	No
33. SDG indicators specifically mentioned?	No
SDGs AND SDG TARGETS AND LINKAGES	
34. Comments on SDG	Implementing the resource contributes to SDGs and targets

linkages	<p>related to protecting and safeguarding cultural and natural heritage (SDG 11.4), and ensuring ongoing access to cultural property (SDG 1.4). As a focus is around archivists' practices, it contributes to SDG 4.4. (skills and training). The framework is focused on strengthening resilience and adaptive capacity to climate-related hazards (SDG 13.1), and improving institutional capacity on climate change mitigation and adaptation (SDG 13.3). The resource to develop a national-level overview of archival management, contributing to SDG 13.2, 'Integrate climate change measures into national policies, strategies and planning and natural disasters in all countries'. The focus on disaster preparedness and disaster response contributes to SDG 11.B, which aims to increase the number of cities and human settlements adopting and implementing integrated policies for disaster risk management and climate change mitigation and adaptation. Ensuring collections information is well looked after and in accessible, notably via digital means, contributes to SDG 9.1 (sustainable, resilient and inclusive infrastructure) and SDG 16.10 (ensure public access to information and ensure fundamental freedoms). The situation of archives in Global South countries at risk from climate change is discussed, and relates to SDG 9.A (Facilitate sustainable infrastructure development for developing countries). The aim is to develop effective institutions (SDG 16.6).</p>
35. SDGs and SDG targets the resource helps advance	
<p>SDG 1: End poverty in all its forms everywhere 1.4 By 2030, ensure that all men and women, in particular the poor and the vulnerable, have equal rights to economic resources, as well as access to basic services, ownership and control over land and other forms of property, inheritance, natural resources, appropriate new technology and financial services, including microfinance</p>	<p>Numbers and proportions of people from particular groups using collections in comparison with demographics in broader society.</p> <p>Numbers of people accessing collections.</p> <p>Number of targeted programmes that aim to enhance access to collections by disadvantaged groups.</p> <p>Sustainable tourism that enhances local communities' access to basic services, ownership and control over land and other forms of property (including cultural and natural heritage), as well as to technology and markets.</p> <p>Involvement of people from disadvantaged groups in decision-making activities and processes relating to collections and collections-based institutions.</p>

<p>SDG 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all</p> <p>4.4 By 2030, substantially increase the number of youth and adults who have relevant skills, including technical and vocational skills, for employment, decent jobs and entrepreneurship</p>	<p>Number of young people and adults in skills-development activities and programmes drawing on collections, for employment, decent jobs and entrepreneurship</p> <p>Increase in number of young people and adults in such programmes</p> <p>Number and proportion of staff who have received training in the last year, to better support their contribution to the SDGs.</p> <p>Programs and processes in place to ensure the availability of a skilled workforce.</p>
<p>SDG 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation</p> <p>9.1 Develop quality, reliable, sustainable and resilient infrastructure, including regional and transborder infrastructure, to support economic development and human well-being, with a focus on affordable and equitable access for all</p>	<p>Development of research-useful collections to support reliable, sustainable and resilient use by researchers and others.</p> <p>Number and proportion of collections facilities and stores that support economic development and human well-being.</p> <p>Number and proportion of collections facilities and stores that provide affordable and equitable access for all.</p> <p>Investment in collections facilities.</p> <p>Inclusion of collections information in regional and transborder initiatives, notably via digital access for discoverability.</p>
<p>SDG 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation</p> <p>9.A Facilitate sustainable and resilient infrastructure development in developing countries through enhanced financial, technological and technical support to African countries, least developed countries, landlocked</p>	<p>Plans in place to support development of sustainable and resilient infrastructure in developing countries through financial, technological and technical support, for example through:</p> <ul style="list-style-type: none"> i. joint projects, ii. funding bids, iii. sharing equipment, collections and collections information as appropriate, iv. in order to support development of high-quality infrastructures for sustainable development, research and innovation.

developing countries and small island developing States.	
SDG 11. Make cities and human settlements inclusive, safe, resilient and sustainable 11.4 Strengthen efforts to protect and safeguard the world's cultural and natural heritage	<p><i>11.4.1 Total expenditure (public and private) per capita spent on the preservation, protection and conservation of all cultural and natural heritage, by type of heritage</i></p> <p>Plans, policies and procedures in place for the safe use of collections for a variety of purposes, protecting and safeguarding both collections and those who use them.</p> <p>Plans, policies and procedures in place for the identification, safeguarding and protection of cultural and natural heritage at risk.</p> <p>Collecting programmes in place to protect, safeguard and make use of cultural and natural heritage, addressing the needs of communities and stakeholders, and ensuring that collections can be an effective resource for sustainable development.</p> <p>Number and diversity of educational, awareness-raising, research programmes, and partnerships that aim to strengthen protection of cultural and natural heritage.</p>
SDG 11. Make cities and human settlements inclusive, safe, resilient and sustainable 11.B By 2020, substantially increase the number of cities and human settlements adopting and implementing integrated policies and plans towards inclusion, resource efficiency, mitigation and adaptation to climate change, resilience to disasters, and develop and implement, in line with the Sendai Framework for Disaster Risk Reduction 2015-2030, holistic disaster risk management at all	<p><i>11.B.1 Proportion of local governments that adopt and implement local disaster risk reduction strategies in line with the Sendai Framework for Disaster Risk Reduction 2015-2030a</i></p> <p>Disaster Risk Reduction strategies and plans in place, in line with the Sendai Framework for Disaster Risk Reduction, to ensure collecting institutions and collections are factored into planning, and contribute effectively to Disaster Risk Reduction.</p>

levels	
SDG 13. Take urgent action to combat climate change and its impacts 13.1 Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters in all countries	Plans in place for near and longer term to withstand and actively adapt to climate-related hazards and natural disasters.
SDG 13. Take urgent action to combat climate change and its impacts 13.2 Integrate climate change measures into national policies, strategies and planning	National organisations, institutions and networks relating to collections and collections-based institutions to have integrated climate change measures into policies, strategies and planning relating to collections and collections-based institutions, including funding and other resourcing considerations.
SDG 13. Take urgent action to combat climate change and its impacts 13.3 Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning	Plans in place to enhance positive contributions to addressing climate change through use of collections. Plans in place to ensure collections, collections institutions and broader society can adapt effectively to climate change. Plans in place for effective education and awareness raising on climate change mitigation, adaptation, impact reduction and early warning. Plans in place to reduce negative contributions of collections-related functions, e.g. measuring greenhouse emissions with plans and targets in place to reduce them.
SDG 16. Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels. 16.6 Develop effective, accountable and transparent institutions at all levels	16.6.2 Proportion of the population [audience/users/non-users] satisfied with their last experience of public services Access to information, and accountability policies and mechanisms, in place. Effective institutional arrangements, both for own working and for working in partnership with other sectors, in place. Plans and arrangements in place for extraordinary circumstances such as natural and human-caused disasters. Effective arrangements in place to fulfil legal and social obligations and responsibilities. Effective arrangements in place for transparent

		communication and reporting of institutional performance. Effective arrangements in place for transparent decision-making and accountability.			
SDG 16. Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels. 16.10 Ensure public access to information and protect fundamental freedoms, in accordance with national legislation and international agreements		Adopt and implement constitutional, statutory and/or policy guarantees for public access to information. Plans in place, and plans implemented to enhance public access to information relating to collections. Plans in place, and plans implemented to support fundamental freedoms, in line with human rights, national and international agreements and legislation. Plans and procedures in place for public access to information relating to the operation and management of collections-based institutions. Complaint mechanism in place for public to use where public access to information and fundamental freedoms not supported or fulfilled.			
SDG 17. Partnerships for the goals 17.14 Enhance policy coherence for sustainable development		Proportion of policies that incorporate sustainable development considerations, linking to SDGs and targets. Incorporation of policy considerations from outside the collections sector into policies of collections-based institutions, to facilitate partnerships and effectiveness.			
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	