FORMAT					
1. Name of resour		GBIF Current Best Practices for Generalizing Sensitive Species Occurrence Data			
2. Location		https://docs.gbif.org/sensitive-species-best-			
		ces/master/en/	E' A E 4 O		
3. Alternative loca		//doi.org/10.15468/doc	<u>-5 p4-5g10</u>		
4. Author[s]		D. Chapman			
5. Publisher/produ host	ucer/ GBIF				
6. Year	2020				
7. Suggested citat	Gener availal	Chapman, A. D. (2020). Current Best Practices for Generalizing Sensitive Species Occurrence Data. GBIF, available at <u>https://docs.gbif.org/sensitive-species-best- practices/master/en/</u>			
8. Languages in w available	hich Englisl	h, French, Spanish (web	page trans	lates automatically)	
9. Geographic are		l			
resource relates					
10. Does the resour					
relate to a spec	ific				
time frame?					
11. Туре	Repor	Report			
		Toolkit/Framework/Roadmap Yes			
	Sign-p	Sign-post to other resource (database)			
	Case s	Case studies Yes		Yes	
	Other				
12. If this is part of initiative, what the initiative?					
COLLECTIONS AND CO	LLECTIONS-BA	SED INSTITUTIONS			
13. Explicit links to collections	Yes				
14. Explicit links to	Yes	Yes			
museums/libra rchives	ries/a				
15. Types of institu	tions Muse	Museums X			
the resource co	vers Archiv	Archives			
	Librari	Libraries			
	Other				
16. Types of collections/disc es the resource covers	iplin scienc psycho scienc	numanities and social es: philosophy, ology, religion, social es, law, politics, age, arts and			

	recreation, architecture,			
	literature, history,			
	geography and ethnology,			
	anthropology, archaeology			
	Science, natural history,	Х		
	technology, medicine,			
	engineering, manufacturing			
17. If no explicit links to				
collections,				
justification for				
inclusion				
HOW IT CONTRIBUTES TO SU	STAINABLE DEVELOPMENT			
	tivities the resource relates to	(mark al	I that apply)	
	ct and safeguard wider cultural	-	X	
	vely , for example by targeting	and	~	
_				
—	s of heritage in strategic ways			
Use collections to promote le	-			
	e to sustainable development n			
	ation for sustainable developme	ent		
and sustainable lifestyles, hur				
promotion of a culture of pea	-			
citizenship and appreciation of	of cultural diversity and of cultur	re's		
contribution to sustainable de	evelopment and/or skills develo	pment		
relating to collections				
Use collections to promote c	ultural participation/social incluent	usion		
more effectively, for example	e by reducing barriers to particip	oation,		
to ensure no-one is 'left behin	nd'			
Use collections to promote s	ustainable tourism more effect	ively,		
-	w products based on local cultu	-		
	the rights of stakeholder groups			
relation to collections				
Use collections to support research that contributes to X				
	cluding all forms of personal and	d 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				
i. employment (recruiting, staff training, staff safety)				
ii. energy consumption, greenhouse gas emissions,				
reduction, monitoring and reporting				
iii. waste managemer	nt and reduction of waste			
iv. transport (forms o	f transport, energy use)			
v. commercial activit	ies including copyright and IP			
vi. governance and m	anagement		Х	
	preparedness and risk reduction			
, ,				

Direct external leadership, p	artnerships and collaborations	Х	
	ment more effectively, for example		
by developing impactful part			
	ate clearly to any international conven	tions (mark all that	
Culture conventions:			
1952, 71 Protection of Copyr	ight and Neighbouring Rights		
1954 Protection of Cultural P	roperty in the Event of Armed Conflict		
1970 Fighting Against the Illic	it Trafficking of Cultural Property		
1972 Protection of the World	Cultural and Natural Heritage	Х	
2001 Protection of the Under			
2003 Safeguarding of the Inta			
	on of the Diversity of Cultural		
Expressions			
Rio Conventions:			
—	ersity (CBD), Convention to Combat	X	
	nework Convention on Climate		
Change (UNFCCC) AIMS AND CONTENT			
20. What issues does	"This document aims to provide best	practice (or best	
the resource aim to address? 21. Intended audience	 occurrence data, and provide guidance on how to make as much data available without at the same time opening up the species to harm because data has been placed in the public domain. It is now more than a decade since the first Guide was published, and this new publication is designed to bring those practices up to date and to incorporate the experiences gained by institutions that have implemented the Guide in whole or in part." (Objectives) 		
of resource	 "This work is designed for those who need, or want to know how they can best make as much data available on sensitive taxa as possible without that published data leading to harm to the species. This document is also for individuals or organizations faced with developing a policy on dealing with sensitive primary species occurrence data and writing inhouse documentation consistent with current best practice. Above all, this document will help end users of the data to understand the implications of trying to use records that may have been generalized to protect sensitive species, and how to understand the meaning of generalization at different precisions " (Audience) 		
	how to understand the meaning of ge	•	
22. Process of		neralization at	

	endangered or commercially valuable taxa) was a concern of GBIF – the Global Biodiversity Information Facility – from its beginning. The GBIF Secretariat has a vested interest in making data available via its portals, but at the same time respecting the wishes of data providers to restrict information on sensitive taxa. In early 2006, GBIF initiated a process to address this issue, especially in relation to data to be shared through the GBIF network and made visible through GBIF.org and other data aggregating initiatives" (Introduction)
23. Organisation/structu re/contents	 Introduction Objectives Audience Scope Principles Determining sensitivity Generalizing textual information Generalizing spatial information Documentation and metadata Authentication and authorization Implementations Afterword Glossary
FRAMEWORKS	
24. Framework structure	The resource identifies a set of high-level principles for the sharing of sensitive biodiversity-related data that can be considered as a framework:
	 The management of sensitive data is integral to ethical data management.
	 Wherever possible, environmental information should be freely available to all. Generally this benefits the environment by increasing awareness, enabling better decision-making and reducing risk of damage.
	 Public release of information can sometimes result in environmental harm. In such cases availability of information may need to be controlled; although the presumption remains in favour of release and any restrictions should be assessed and reviewed rigorously.

	4. All data regarded as being sensitive should include a date for review of their sensitivity status, along with documented reasons for the sensitivity status. The date for review may be short or long depending on the nature of the sensitivity.
	 Whenever a data provider receives an application for enhanced access to restricted data, they should avoid assuming continued sensitivity and use it as an opportunity to revisit the determination.
	 If the data is to be restricted for distribution, then this should only be done to a copy of the data at the time of their distribution. Data should never be altered, falsified or deleted from the stored record.
	 Documentation is essential for many reasons, and where data have been restricted or generalized, it is important that the reason(s) for the categorization is recorded as metadata that remains with the record.
	 8. Where data is restricted or generalized for distribution (such as the name of a collector, textual locality information, etc.), this should be documented by replacing with appropriate wording – the field should not be left blank or null.
	 There are extremely strong reasons not to restrict data on related collections (e.g. collector's numbers in sequence, collector's name, etc.) because of the restrictions this places on data quality and data validation procedures, etc.
	10. Users of sensitive data should comply with any and all restrictions of access that the data provider has placed on the data. If granted enhanced access to restricted information, users must not compromise or otherwise infringe the confidentiality of such information.
	11. Data providers should respect the needs of data users to have access to data and documentation in order to determine the 'fitness for use' of the data and to ensure that analyses are robust and not misleading.
25. Relevant policy considerations	Yes

26. Resources for	Yes
implementation	
identified	
27. Specific assessment	Yes
points/indicators/mi	
lestones/action plan	
for monitoring	
28. ASPECTS OF SUSTAIN	ABILITY COVERED BY RESOURCE (mark all that apply)
People (social sustainability)	
Planet (environmental	X
sustainability)	
Prosperity (economic	
sustainability)	
Peace	X
Partnerships	X
29. CROSS-CUTTING CON	SIDERATIONS COVERED BY RESOURCE (mark all that apply)
Gender perspectives	
North and South	
perspectives	
• •	IBUTES TO AGENDA 2030 AND THE SDGs
HOW AGENDA 2030 AND TH	E SDGs FEATURE IN THE RESOURCE
30. SDGs and Agenda	No
2030 specifically	
mentioned?	
31. SDGs specifically	No
mentioned?	
32. SDG targets	No
specifically	
mentioned?	
33. SDG indicators	No
specifically	
mentioned?	
SDGs AND SDG TARGETS AN	D LINKAGES
34. Comments on SDG	The resource can support SDG targets related to
linkages	conservation of natural heritage, and effective management
	of biodiversity information.
	In terms of conservation of natural heritage, these include
	11.4 (protection and safeguarding of cultural and natural
	heritage), 14.2 (conservation of marine and coastal
	habitats), 15.1 (sustainable use of nature) and 15.5
	(reversing habitat destruction and extinctions), 15.7
	(reducing supply and demand for trafficked wildlife) and
	15.C (strengthen global efforts to combat poaching and
	trafficking of protected species).

	In terms of effective management of information, these include 9.5 (support scientific research), 16.6 (effective, accountable and transparent institutions) and 16.10 (protect the right to information and fundamental freedoms), and 17.16 (global partnerships, including sharing of information).
35. SDGs and SDG targets	s the resource helps advance
SDG 9. Build resilient	
infrastructure, promote	Number and proportion of collections facilities that
inclusive and sustainable	effectively support research and researchers.
industrialization	
9.5 Enhance scientific	Number and proportion of staff who are appropriately
research, upgrade the	skilled to undertake and support collections-based research.
technological capabilities of	
industrial sectors in all	Expenditure on initiatives to enhance and upgrade
countries, in particular	collections facilities.
developing countries,	
including, by 2030,	Numbers of staff engaged in supporting and developing
encouraging innovation and	research use based on collections.
substantially increasing the	
number of research and	Number of initiatives to encourage innovation drawing on
development workers per 1	collections.
million people and public	
and private research and	Increase in number of research and development workers
development spending	per 1 million people.
	Increase in public and private research and development spending being used to develop and make use of
	collections.
SDG 11. Make cities and	
human settlements	11.4.1 Total expenditure (public and private) per capita
inclusive, safe, resilient and	spent on the preservation, protection and conservation of
sustainable	all cultural and natural heritage, by type of heritage
11.4 Strengthen efforts to	
protect and safeguard the	Plans, policies and procedures in place for the safe use of
world's cultural and natural	collections for a variety of purposes, protecting and
heritage	safeguarding both collections and those who use them.
	Plans, policies and procedures in place for the
	identification, safeguarding and protection of cultural and
	natural heritage at risk.
	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
	neede of commandes and stakenolders, and ensuring that

	collections can be an effective resource for sustainable
	development.
	Number and diversity of educational, awareness-raising,
	research programmes, and partnerships that aim to
	strengthen protection of cultural and natural heritage.
SDG 14 Conserve and	
sustainably use the oceans,	Proportion of marine and coastal areas in a good ecological
seas and marine resources for sustainable	condition
development	Numbers of educational and awareness-raising
14.2 By 2020, sustainably	programmes, research activities, and partnerships drawing
manage and protect marine	on collections aiming to support protection of marine and
and coastal ecosystems to	coastal areas.
avoid significant adverse impacts, including by	
strengthening their	
resilience, and take action	
for their restoration in	
order to achieve healthy	
and productive oceans SDG 15 Protect, restore	
and promote sustainable	Proportion of terrestrial and inland freshwater systems in a
use of terrestrial	good ecological condition.
ecosystems, sustainably	
manage forests, combat	Information on, programmes relating to, collections
desertification, and halt and reverse land	development, and partnerships relating to terrestrial and freshwater systems drawing on collections in place, to
degradation and halt	support their protection and effective functioning.
biodiversity loss	
15.1 By 2020, ensure the	
conservation, restoration and sustainable use of	
terrestrial and inland	
freshwater ecosystems and	
their services, in particular	
forests, wetlands,	
mountains and drylands, in line with obligations under	
international agreements	
SDG 15 Protect, restore	
and promote sustainable	Number and proportion of habitats, notably endangered
use of terrestrial	habitats, and species with favourable conservation status,
ecosystems, sustainably manage forests, combat	with special reference to locally, nationally and globally endangered species.
desertification, and halt	
,,	

and reverse land degradation and halt	Information on, programmes relating to, collections development, and partnerships relating to habitats and
biodiversity loss	species drawing on collections in place, to support their
15.5 Take urgent and	protection and continued existence.
significant action to reduce	
the degradation of natural	Measures taken to enhance biodiversity value of green
-	
habitats, halt the loss of	space associated with collections institutions.
biodiversity and, by 2020,	
protect and prevent the	
extinction of threatened	
species	
SDG 15 Protect, restore	
and promote sustainable	Policies and plans in place to ensure objects and specimens
use of terrestrial	of protected species (for example ivory, rhino horn) in
ecosystems, sustainably	collections are protected against theft and do not enter
manage forests, combat	supply chains.
desertification, and halt	
and reverse land	Policies and plans in place to ensure that objects and
degradation and halt	specimens are only acquired in line with national and
biodiversity loss	international legislation, or with legal dispensation.
15.7 Take urgent action to	
end poaching and	Information on, programmes relating to, collections
trafficking of protected	development, and partnerships relating to poached and
species of flora and fauna	trafficked species, notably protected and endangered
and address both demand	species, to end poaching and trafficking.
and supply of illegal wildlife	
products	
SDG 15 Protect, restore	
and promote sustainable	Policies and plans in place to ensure objects and specimens
use of terrestrial	of protected species (for example ivory, rhino horn) in
ecosystems, sustainably	collections are protected against theft and do not enter
manage forests, combat	supply chains.
desertification, and halt	
and reverse land	Policies and plans in place to ensure that objects and
degradation and halt	specimens are only acquired in line with national and
biodiversity loss	international legislation, or with legal dispensation.
15.C Enhance global	
support for efforts to	Revenue generated to combat poaching and trafficking of
combat poaching and	protected species, and to support local communities to
trafficking of protected	pursue sustainable livelihoods.
species, including by	Direct financial support cives to projects and exercise the
increasing the capacity of	Direct financial support given to projects and organisations
local communities to	to combat poaching and trafficking of protected species,
pursue sustainable	and to support local communities to pursue sustainable
livelihood opportunities	livelihoods.

SDG 16. Promote peaceful	
and inclusive societies for	16.6.2 Proportion of the population [audience/users/non-
sustainable development,	users] satisfied with their last experience of public services
provide access to justice	Access to information, and accountability policies and
for all and build effective,	mechanisms, in place.
accountable and inclusive	
institutions at all levels.	Effective institutional arrangements, both for own working
16.6 Develop effective,	and for working in partnership with other sectors, in place.
accountable and	
transparent institutions at	Plans and arrangements in place for extraordinary
all levels	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	Adopt and implement constitutional, statutory and/or
sustainable development,	policy guarantees for public access to information.
provide access to justice	
for all and build effective,	Plans in place, and plans implemented to enhance public
accountable and inclusive	access to information relating to collections.
institutions at all levels.	
16.10 Ensure public access	Plans in place, and plans implemented to support
to information and protect	fundamental freedoms, in line with human rights, national
fundamental freedoms, in	and international agreements and legislation.
accordance with national	Diana and proceedures in place for public passes to
legislation and international agreements	Plans and procedures in place for public access to information relating to the operation and management of
agreements	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	Number and/or increase in number, and diversity of global
17.16 Enhance the global	and international multi-stakeholder partnerships that share
partnership for sustainable	collection-related knowledge, expertise, technology and
development,	financial resources to address the SDGs, or that otherwise
complemented by multi-	involve collections-based organisations and institutions.
stakeholder partnerships	
that mobilize and share	

knowledge, ex technology an resources, to s achievement of sustainable de goals in all cou particular deve countries	d financial support the of the evelopment intries, in	and internation developing cou	r increase in num nal multi-stakeh Intries that shar pertise, technolo Gs.	older partnersh e collection-rel	ips involving ated	
1	2	3	4	5	6	
7	8	<mark>9</mark>	10	<mark>11</mark>	12	
13	<mark>14</mark>	15 16 17				