Appendix S2: Non-exhaustive list, of international initiatives of the scientific community aiming for sharing ecological data. These initiatives are also supported by intergovernmental climatic and ecological negotiations, such as IPCC (http://www.ipcc.ch/) and IPBES (http://www.ipbes.net/).

Initiative	Description
BioDBCore	BioDBCore (http://biodbcore.org/) is a community-defined, uniform, generic
	description of the 'core attributes of biological databases'
BioSharing	BioSharing (http://biosharing.org/) map the landscape of community
	developed standards in the life sciences, broadly covering biological,
	natural and biomedical sciences.
BOLD	The Barcode of Life Data Systems (http://www.barcodinglife.org) is a
	global online data management system for DNA barcodes (COI gene,
	ITS) with references to voucher specimens (geo-referenced) and
	phylogenetic analyses.
EMP	Earth Microbiome project (http://www.earthmicrobiome.org/) is a
	massively multidisciplinary effort to analyze microbial communities
	across the globe.
DataONE	Data Observation Network for Earth (http://www.dataone.org) is an
	initiative supported by the U.S. National Science Foundation to ensure
	the preservation, access, use and reuse of multi-scale, multi-
	discipline, and multi-national science data via three primary
	cyberinfrastucture elements.
DRYAD	DataDryad.org is a curated general-purpose repository that makes the
	data underlying scientific publications freely reusable.
GBIF	Global Biodiversity Information Facility (http://www.gbif.org) promotes
	and facilitates the mobilization, access, discovery and use of
	information about the occurrence of organisms across time and over
	the planet.
GPDD	The Global Population Dynamics Database
	(http://www3.imperial.ac.uk/cpb/databases/gpdd) hosts animal and
	plant population data, organized in time series.
GSC	Genomic Standards Consortium (http://gensc.org/) aim to bring

	together the genomics community to improve contextual data quality
	for genomic sequence data
TRY	The Plant Trait Database (http://www.try-db.org/TryWeb/Home.php) is
	a collaborative functional trait database with 3 million trait records for
	about 69000 plant species. The trait values are standardized, quality
	checked and made available for scientific projects upon request.