Biodiversity Without Boundaries 2024 Conference April 8-11, 2024 Seattle, Washington

Draft Agenda SUBJECT TO CHANGE

Registered attendees should access the agenda in the Whova app for the most up-to-date session information

Day	Time	Session/Event
Monday April 8, 2024	All Day	Field Tours Billy Frank Jr. Nisqually National Wildlife Refuge Nisqually is a top birding spot with over 270 bird species reported. A major restoration effort started in 2009, focusing on dike removal and improving salt marsh and estuarine conditions for salmon and wildlife recovery. Diverse habitats attract birds year-round, with early April highlights like various waterfowl, migrating shorebirds, and landbirds. Expect to spot at least 50 bird species on this trip. Carbon River Rainforest (Mount Rainier National Park) The Carbon River is located in the northwest corner of Mount Rainier National Park—cool, mild temperatures and copious annual precipitation support an exemplary, old-growth temperate rainforest. This tour will talk about old-growth forest ecology and conservation and will seek out rare and old growth-dependent lichens. Bald Hill Natural Area Preserve Bald Hill Natural Area Preserve conserves remarkable examples of grassland balds, oak woodlands, and wetland plant communities, along with five rare plants, two rare lichens, and two rare butterflies. During your visit, you'll have the opportunity to observe most of these rare biodiversity features at the site and engage in discussions about the necessary management actions to preserve the viability and ecological integrity of these vital components of Washington's natural heritage. Deception Pass State Park Deception Pass State Park is Washington's most visited state park—for good reason! In addition to having incredible scenic beauty, the park contains an incredible diversity of habitats, such as

		coastal dunes, rocky shorelines, mature coniferous forests, bogs, balds, rare plants and lichens, and a rare butterfly. This trip will explore many of those features as well as dive into the various management activities that park staff are implementing to address significant stressors and restoration of significant natural features.
	All Day	Attendee Arrival
	6:00pm	NatureServe Board Dinner

Day	Time	Session/Event
	8:00am-12:00pm	NatureServe Board Meeting (Board Members and Staff Only)
	8:00am-12:00pm	Optional Meetings
		Ecological Integrity Assessment (EIA) Meeting: 9 am-12pm
		Data Manager workshop: 10:30am-12:00 pm
	1:30-3:15pm	Opening Plenary
		 Welcome & Land Acknowledgement: Chairman Leonard Forsman, Suquamish Tribe Welcome from NatureServe Leadership
		Hilary Franz, Commissioner of Public Lands, WADNR (invited)
		 Joe Rocchio, Program Manager, Washington Natural Heritage Program, Ecological and Cultural Overview of Washington State
		Keynote: Dr. Cristina Eisenberg, Associate Dean for Inclusive Excellence, Maybelle Clark
		Macdonald Director of Tribal Initiatives in Natural Resources, Oregon State University,
Tuesday April 9, 2024		Engaging Tribal Partners in Biodiversity Conservation Science
,	3:15-3:30pm	Break
	3:30-5:15pm	Notes from the Field/Program Highlights
		Conservation Impacts Plenary: This session will explore examples of how network data
		informs regulatory decisions, land use policies, and proactive conservation acquisitions at the local level.
		 John Q. Burkhart, Heritage Botanist, West Virginia Division of Natural Resources,
		The West Virginia Heritage Program's Role in Conservation Partnerships in the Mountain State
		Ryan O'Connor, Ecologist, Wisconsin DNR, Collaborating with land trusts to
		identify and manage globally imperiled oak savannas in Wisconsin: a coarse-
		level metric approach derived from Ecological Integrity Assessments
		 Danielle Marshall, Conservation Biologist, Oregon Department of Agriculture,
		Native Plant Conservation Program, Collaboration for Conservation Impact:

	6:00-8:00pm	 Updating Oregon's list of threatened and endangered plants for the first time in nearly 25 years Tyler Bassett, Botanist, Michigan Natural Features Inventory, Cataloging the Keweenaw: Natural Heritage data as the backbone for public land-use decisions in Michigan's Upper Peninsula Get to Know Explorer Pro! NatureServe Explorer Pro is the definitive source of information for over 100,000 rare and endangered species and ecosystems in North America. No other tool supports data exploration, analysis and visualization like Explorer Pro. In this session we will introduce the top features that make NatureServe Explorer Pro a valuable tool for biodiversity conservation. (30 min) Lori Scott, CIO and Vice President for Technology and Partnerships, NatureServe Welcome Reception
Wednesday April 10,	7:00-8:30am	Breakfast
2024		
	8:30-10:00am	 Concurrent Session 1: NatureServe and iNaturalist: Join NatureServe, the NatureServe Network and iNaturalist at BWB to learn about how the Network leverages iNaturalist to advance biodiversity conservation, how iNaturalist supports broader understanding of nature, and ways iNaturalist and NatureServe can work together to generate more high-quality, precise location data for science and conservation. This is the first of two concurrent sessions. Bryce Maxell, and Kyle Kaskie, Program Coordinator and Biological Data Scientist, Montana Natural Heritage Program - Montana State Library, iNaturalist Data Use in the NatureServe Network Shelley Cooke, Project Manager, NatureServe, Integration of iNaturalist Data in iMapInvasives Allison Siemens-Worsley, National Data Support Biologist, and Randal Greene EBAR Technical Coordinator, NatureServe Canada, iNaturalist Data in Canada - iNaturalist.ca Data Ingestion Tool Matthew Schlesinger, Chief Zoologist, New York Natural Heritage Program, Standardized Surveys and Unstructured Observations Are Complementary in Status Assessments for Pollinators Diana Soteropoulos, Botanist, NatureServe, All Plants Great and Small, Gotta Find 'Em All: Extracting Rare Plant Records from iNaturalist

	Concurrent Session 2: Get to Know Explorer Pro: Take a deeper dive into Explorer Pro and see all the ways this tool could help support your conservation goals. Concurrent Session 3: Vegetation Management for Biodiversity Danielle Horne, Graduate Student, School of Environmental and Forest Sciences, University of Washington, Microsite Conditions of Wenatchee Mountains Checkermallow (Sidalcea oregana var. calva) Gabriel Campbell, Botany Program Manager and Seed Bank Director, Oregon Biodiversity Information Center and Berry Seed Bank, Pacific Northwest Native Coastal Dune Plant Propagation Jesse Lincoln, Conservation Scientist, Michigan Natural Features Inventory, Using GIS-Based Multicriteria Decision Analysis to Identify Recoverable, Fire-Dependent Systems in Michigan's Huron-Manistee National Forest Mitchell O'Neill, Invasive Species Biologist, New York Natural Heritage Program, The intersection of rare and invasive species: combining datasets for element occurrences and invasive species to guide biodiversity conservation.
	 William Forbes, Associate Professor, Stephen F. Austin State University, We're Lumberjacks and We're Okay: Invasive Plant Removal by a University Timbersport Team
10:00-10:30am	Break
10:30am-12:00pm	Concurrent Session 4: NatureServe and iNaturalist: In the second part of this discussion we will discuss how NatureServe, the Network and iNaturalist can develop an on-going collaboration to advance biodiversity conservation in North America.
	 Concurrent Session 5: Climate Change and Biodiversity Bruce E. Young, Interim Chief Scientist and Chief Zoologist, NatureServe, A Revised, Online Climate Change Vulnerability Index for Species Bruce Hoagland, Coordinator, Oklahoma Natural Heritage Inventory, Climate Vulnerability for 18 Ecosystems in the South Central U.S. Patrick McIntyre, Director of Ecology, NatureServe, Updates on NatureServe's Climate Vulnerability Assessments for Ecosystems
	Concurrent Session 6: Collaborations that Support Diversity in Conservation • Caroline Jezierski, Project Manager, NatureServe, NatureServe's Action Plan

	 Claire Singer, Wildlife Biologist (Biodiversity), Northwest Territories Conservation Data Centre, Assessing Species at Risk Using Indigenous Knowledge and Scientific Knowledge David Anderson, Director, Colorado Natural Heritage Program, Colorado Statewide
	 Natural Heritage Survey- a New Ethos for our Work Joshua Cohen, Lead Ecologist, Michigan Natural Features Inventory, Biodiversity
	conservation in the Beaver Island Archipelago - A collaborative partnership between the Little Traverse Bay Bands of Odawa Indians and Michigan Natural Features Inventory
	 Joshua Cohen, Lead Ecologist, Michigan Natural Feature Inventory and Joe Rocchio, Program Manager, Washington Natural Heritage Program, Natural Heritage Cross Training
12:00-2:00pm	Lunch on Own
2:00-3:15pm	Plenary Session
	Program Highlights
	 Scott Loarie, Executive Director, iNaturalist (confirmed)
	 Al for Nature: Artificial intelligence (AI) is changing how information is generated and accessed, including for biodiversity. Join NatureServe, the US Fish and Wildlife Service and others to explore how AI can be applied to scale up provision of meaningful information on extinction risk, taxonomy, species and ecosystem location and condition, as well as trends.
3:15-3:45pm	Break
3:45-5:15pm	Concurrent Session 7: Al for Nature Continued: Take a deeper dive into how Al could support NatureServe and Network in providing high-quality data for conservation decision makers.
	Concurrent Session 8: Unifying the fields of in situ and ex situ conservation
	 Wesley Knapp, Chief Botanist, NatureServe, One is the loneliest number: identifying and
	prioritizing plants of one known occurrence for conservation action
	Katie Heineman, Vice President of Science and Conservation, Center for Plant
	Conservation, Matching Conservation Seed Accessions to Occurrences: A Win-Win
	Partnership between Heritage Programs and the Botanical Garden Community
	Carrie Radcliffe, Director of Conservation Partnerships, Atlanta Botanical Garden Carrie Radcliffe, Director of Conservation Partnerships, Atlanta Botanical Garden
	Southeastern Center for Conservation, Ex situ conservation of imperiled plant species in the Southeastern United States
	 Jennifer Ramp Neale & Alex Seglias, Director of Research & Conservation, Denver Botanic Gardens, Small Seeds Inform Continental Collaboration

2024	8:30-10:00am	Concurrent Session 10: Incorporating distribution and status information for fungi, lichens, and nonvascular plants
Thursday April 11,	7:00-8:30am	Breakfast
	5.55 p	Optional Meetup: Stoup Brewing - Capitol Hill
	5:30 pm	Optional Topical Offsite Chats: See Whova app
		Species of Greatest Conservation Need
		behalf of the Southeastern Plant Conservation Alliance, Southeastern Plants Regional
		Carrie Radcliffe, Director of Conservation Partnerships, Atlanta Botanical Garden, on
		Dakota State Wildlife Action Plan Update Plants and SWAPs (5:15 pm)
		Nicolle Fuka, Natural Resources Specialist, North Dakota Parks & Recreation, North Dakota State Wildlife Action Plan Undate
		Status Rank Factors
		Library, Supporting State Wildlife Action Plan Development by Databasing Conservation
		Dan Bachen, Senior Zoologist, Montana Natural Heritage Program of the Montana State
		Habitats in Texas
		Conservation Opportunity Areas for Species of Greatest Conservation Need and Priority
		 TBD SWAPs Update-West Region Jennifer Marrugo, Texas Parks and Wildlife Department, Ecologist, Modeling
		Northeast Region TRD SWARs Undate-West Region
		Kathleen Walz, Ecologist, New Jersey Dept. of Environmental Protection, SWAPs Update- **Text
		SWAPs Update-Southeast Region
		Joe Lemeris, GIS/Data Manager, South Carolina Department of Natural Resources,
		MN Dept of Natural Resources, SWAPs Update - Midwest Region
		Bruce Carlson, MN Biological Survey Program Manager, Minnesota Biological Survey -
		Concurrent Session 9: SWAPs: Upcoming revisions and what that means for the Network (followed by an optional working session on adding plants to SWAPs)
		Saving Certain Relict Plants
		Laboratories and Arboretum Collaborative Ex-situ Conservation, The Only Option for
		Adam Black, Director of Horticulture and Plant Conservation, Bartlett Tree Research
		conservation in New England

- Gregory M. Mueller, Chair, IUCN Fungal Conservation Committee and Chief Scientist Emeritus, Chicago Botanic Garden, New initiatives are significantly adding data on North American fungal diversity, their distributions, and their conservation status.
- Hannah Huber, Conservation Mycologist, Pennsylvania Natural Heritage Program, Fungal Conservation Beginnings in Pennsylvania
- Jesse Miller, Lead State Botanist, Washington Natural Heritage Program, Eyes on the little guys: Lessons from a collaborative effort to develop a state lichen list for Washington
- Jessica Allen, Associate Professor, Eastern Washington University, Assembling complete and accurate conservation assessments for lichens: Lessons from global Red Listing
- Scott Schuette, Botany Program Manager, Pennsylvania Natural Heritage Program/
 Western Pennsylvania Conservancy, Advancing Bryophyte Conservation using a Multitiered Approach to Building a North American Consensus Checklist of Mosses,
 Liverworts, and Hornworts

Concurrent Session 11: **Biodiversity Valuation**: This session will explore the emerging field of biodiversity valuation, data needs of corporations as they address emerging nature-positive regulations, and how NatureServe and the Network can support the development and monitoring of relevant biodiversity metrics.

- Bruce E. Young, Interim Chief Scientist and Chief Zoologist, NatureServe, *Methods and Data to Support Corporate Biodiversity Valuation*
- Mary Harkness, Project Manager, Ecologist, NatureServe, and Jay Hayek, Forest Nature & Conservation Manager, Drax Biomass, *Understanding Biodiversity Value and Change Detection in Wood Fiber Sourcing Areas*
- Dan Rockefeller, Senior Project Scientist Biodiversity & Ecosystems, Ramboll, A biodiversity metric for the Americas

Concurrent Session 12: Data Visualization for Conservation

- Mike Gill, Director, Biodiversity Indicators Program, NatureServe, *Biodiversity Indicators Program: Leveraging our Global Partnerships to Strengthen NatureServe's Mission*
- D. Todd Jones-Farrand, At-Risk Species Science Coordinator, US Fish & Wildlife Service, Biodiversity Business Intelligence: Case studies in the USFWS

	Sunny Fleming, Industry Lead - State & Local Gov Environment and Conservation, Esri,
	Fortune Tellers of the Future: How Conservationists Are Charting the Future One Map at a Time
	 Chris Fleming, Senior Solutions Engineer, Skytec, Integration of multi-scale, high- cadence, satellite imagery for monitoring areas of high conservation priority
10:00-10:15am	Break
10:15-11:45am	Concurrent Session 13 : Supporting Sustainable Forest Management
	 Allison Gratz, Director of Network Relations, NatureServe, Overview of Certified Forest Companies use of NatureServe Tools and Network Data
	 Chad Leatherwood, Senior Sustainability Transformation Manager, Weyerhaeuser Company, Collaboration to improve data and tools to protect biodiversity in fiber sourcing
	 Healy Hamilton, Chief Scientist, Sustainable Forestry Initiative, Changing expectations of sustainable forestry in a Nature Positive economy
	 Jenniffer Bakke, Manager, Environmental Services, Manulife Investment Management, Case Study - Utilizing NatureServe data to inform management on private farms and forests
	 Concurrent Session 14: Identifying Rare and At-Risk Species: From pollinators to marine mammals, we will explore all the innovative ways conservationists are identifying at-risk species for conservation action. Tara Cornelisse, Invertebrate Zoologist, NatureServe, Status of native insect pollinators of the U.S. and Canada Meghan Rickard, Senior Marine Zoologist, NY Natural Heritage Program, Whale monitoring in the New York Bight Amie Enns, National Data Manager, NatureServe Canada, General Status: Towards assessing all species in Canada Noah Greenwald, Endangered Species Director, Center for Biological Diversity, Using NatureServe Data to Identify Species Needing Consideration for Protection Under the Endangered Species Act Sienna Wessel, State Botanist, Washington Natural Heritage Program, Fantastic Washington Endemics and Where to Find Them: An Assessment of Hotspots and Conservation Gaps

	 Concurrent Session 15: Innovations in Working with Spatial Data Bryce Maxell, Program Coordinator and Braden Burkholder, Data Systems and Sciences Lead Montana Natural Heritage Program, Modeling Predicted Biodiversity to Support Land Use Planning Max Tarjan, Ecological Modeling Program Manager, NatureServe, NatureServe's Species Habitat Modeling Program: Current status and future directions Joseph Weber, Chief of Biodiversity Information and Conservation Tools, Virginia DCR Natural Heritage Program, A Mussel Richness Map for the Virginia Chesapeake Bay Watershed Samantha Stefanoff and Katrina Gaibisels, EBAR Project Team, NatureServe Canada, NatureServe Canada's Ecosystem-based Automated Range (EBAR) project Whitney Weber, DBA & Product Support Specialist, NatureServe, Supporting Data Flow with the Network, BLM and beyond through the Observation Data Standard
12:00-2:00pm	LunchAwards presentationsClosing Remarks
2:00-5:00pm	Optional Side Meetings • EIA Field Tour 2-5 pm (Don)
5:00pm	Conference Ends