

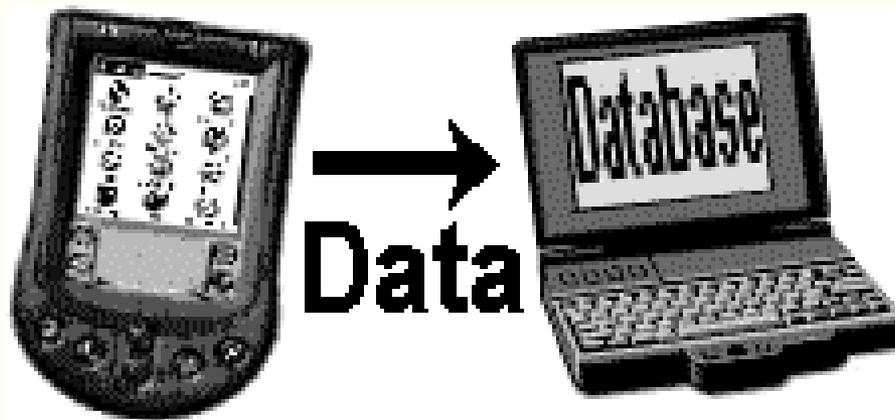


EcoNab and VegSurvey for Field Data Collection



What is EcoNab?

- Collects ecological field data
- Runs on “Palm Pilots”
- Designed to work with MS Access database
- Database directly works with NIISS website



The National Institute of Invasive Species Science

www.niiss.org

The screenshot shows the website's header with the USGS logo, navigation links (Home, About Us, Overview, Home, Contact Us), and a date (October 29th 2006). The main content area features a search form for species information, a list of news items, and a section for local area information. A sidebar on the left provides navigation for data gathering, browsing, contributing, analyzing, and downloading.

USGS Login Welcome guest My Profile October 29th 2006

The National Institute of
Invasive Species Science

[Overview](#) [Home](#) [Contact Us](#)

USGS Fort Collins Science Center *Online*

Gather Data
Field Methods
Field Tools

Browse Data
By Organization
By Location
By Species
By Project
By Map

Contribute Data
Survey Data
New Sightings
Data Standards

Analyze Data
Spreadsheets
GeoRasters

Download Data
Downloads

Contact Us
Help

Register
Login

Species Info

Interested in a specific species? We are collecting data on key invasive species. Type a species:

Search By:	For:
Scientific Name:	<input type="text"/>
Common Name:	<input type="text"/>
NRCS Code:	<input type="text"/>

In The News

- Desert Fires' Damage Will Last [More...](#)
- New USGS Research Factsheet! [More...](#)
- USGS NAS summary graphs available [More...](#)
- USGS NAS launches alert system [More...](#)
- Volunteer Monitoring Program announced [More...](#)

[Show all](#)

In Your Area

What's in your area? Find out!

- [Select an area of interest](#)
- [Query our database](#)
- [View our map](#)

New At NIISS

- Tamarisk Habitat Suitability Map [Read more...](#)
- New NIISS Factsheet available! [Read more...](#)
- Spreadsheets & GeoRasters [Read more...](#)
- Presence attribute now added [Read more...](#)
- New at NIISS & In the News [Read more...](#)

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Step 1: Register with NIISS

USGS



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Registration Information

First Name:	<input type="text"/>	Required
Last Name:	<input type="text"/>	Required
Address:	<input type="text"/>	
Address More:	<input type="text"/>	
City:	<input type="text"/>	
Nation:	<input type="text" value="United States"/>	
If within US, State:	<input type="text" value="None"/>	
Home Phone:	<input type="text"/>	
Work Phone:	<input type="text"/>	
Email:	<input type="text"/>	Required
Login:	<input type="text"/>	Required
Password:	<input type="password"/>	Required
Confirm Password:	<input type="password"/>	Required
Data Use Agreement:	<p>(1) The quality and completeness of data cannot be guaranteed. Users employ these data at their own risk.</p> <p>(2) Users must publicly acknowledge, in conjunction with the use of the data, the data providers whose invasive species data they have used. Data providers may require additional attribution of specific collections within their institution.</p>	
	<input type="checkbox"/> I accept	Required
Got Data?	<input checked="" type="radio"/> No <input type="radio"/> Yes	

Submit



Step 2: Access EcoNab Downloads

- Navigation Bar
 - Gather Data
 - Field Tools
 - Click on “Download Page” under EcoNab heading



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EcoNab Downloads Page

EcoNab - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop

Address http://www.niiss.org/cwis438/gather/EcoNab/EcoNabDownload.php Go Links

USGS Logout Welcome Alycia My Profile January 21st 2007

The National Institute of Invasive Species Science

Field Tools Gather Data Field Methods

EcoNab Help

Welcome to the EcoNab Downloads page

Please read the [License Addendum](#) below before downloading files.

EcoNab core

EcoNab allows you to collect data using an inexpensive "Palm Pilot" PDA.

Make things easy on yourself. Look at the Tutorial before starting the Demo.
EcoNab Tutorial [MS Word document, *EcoNabTutorial.doc*, 641k] [Download](#)

Try EcoNab
EcoNab Demo [Windows application, *EcoNabDemo.exe*, 5,546k]
This Demo program emulates EcoNab on your computer screen.
Please read the first few pages of the tutorial (above) before downloading the Demo.



get EcoNab [Palm application, *EcoNab.prc*, 106k]
This is the core application but you need [Palm Desktop](#) before you can load it on your Palm.
See "More about EcoNab" for details. [Download](#)

More about EcoNab [MS Word document, *AboutEcoNab.doc*, 150k] [Download](#)

VegSurvey database

An Access database you use to import data from your Palm.

More about VegSurvey [MS Word document, *AboutVegSurvey.doc*, 103k] [Download](#)

get the VegSurvey package [Zip file, *PkgVegSurvey.zip*, 1,474k] [Download](#)

FAQs

Answers to some of the first questions that come up.

"What do I need to buy?" [MS Word document, *WhatDoINeedToBuy.doc*, 218k] [Download](#)

"How do I set it up?" [MS Word document, *HowDoISetItUp.doc*, 283k] [Download](#)

Plot Templates

These are example plot templates you can plug directly into EcoNab.
To adapt them, or create ones for your own type of plots, see the Plot Template Tutorial.

— select plot type — [Download](#)

[Zip file, 5-7k] [Download](#)

Plot Template tutorial [MS Word document, *PlotTemplateTutorial.doc*, 482k] [Download](#)

Species Lists

If your study involves many species, pre-loaded lists are a great convenience.

Species List tutorial [MS Word document, *SpeciesListTutorial.doc*, 271k] [Download](#)

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Done Internet



Available for Download

- **EcoNab (Palm Program)**
 - EcoNabTutorial.doc
 - EcoNabDemo.exe
 - EcoNab.prc
 - AboutEcoNab.doc
- **VegSurvey (MS Access Database)**
 - AboutVegSurvey.doc
 - PkgVegSurvey.zip



Available for Download

- Extras
 - WhatDoINeedToBuy.doc
 - HowDoISetItUp.doc
 - PlotTemplateTutorial.doc
 - StateSpeciesList.prc
 - PkgGoGPS.zip
 - PkgUnknowns.zip



What is needed?

- See “WhatDoINeedToBuy.doc”
- Palm Pilot
 - Palm OS PDAs
 - WILL NOT RUN on Blackberry, PocketPC, or any Microsoft mobile operating system
- Palm/GPS connector cable and GPS
- Bluetooth GPS



Is it expensive?

- Geared to low financial end users
- Garmin eTrex, \$100
- Connector Cable, \$30
- Palm Pilot, \$50

- **GRAND TOTAL: \$180**





Recovering Lost Data

- Data archived in “DataNREL.pdb” for every user
- HotSync operation updates
- Can recover any data from last HotSync

- TIPS (AboutEcoNab.doc)
 - HotSync your palm regularly and import data into VegSurvey database
 - Delete plots from Palms after import into VegSurvey
 - Do not use Palm as a backup! Use copy of VegSurvey



Weatherproofing

- Buy weatherproof palm
- Cost: \$100s-\$1000s



- Weatherproof case
- Cost: \$10s-\$100s



- Ziplock bag
- Cost: \$.04/bag





Two Main Features of EcoNab

- Vegetation Inventory
 - Entering number of different species
 - Based on plots of specific design
- Mapping
 - Concerned with one or few species

Plot Header Information

Plot name: 

Select Date... 

Botanist: ▼ 

Recorder:

GPS Zone: 

Easting: Northing:

▼ Datum... Elev: ▼ ? Az:

Notes:

.....

I'll finish later





Customization

- Create custom species lists
 - SpeciesListTutorial.doc
- Create custom plot types
 - PlotTemplateTutorial.doc
- Create customized auxiliary data screens
 - PlotTemplateTutorial.doc



Example: Study Design

- Remote sensing of large non-native trees
- Estimate percent cover from a 'bird's-eye' view
- Total cover does not total more than 100%
- Subjective placement
 - find a homogenous area of interest that needs to be distinguished by remote sensing

Example: Vegetation Inventory-Calibration Plot

Species of Interest

Tamarix sp.

Eleagnus angustifolia

Populus deltoides

Auxiliary Variables

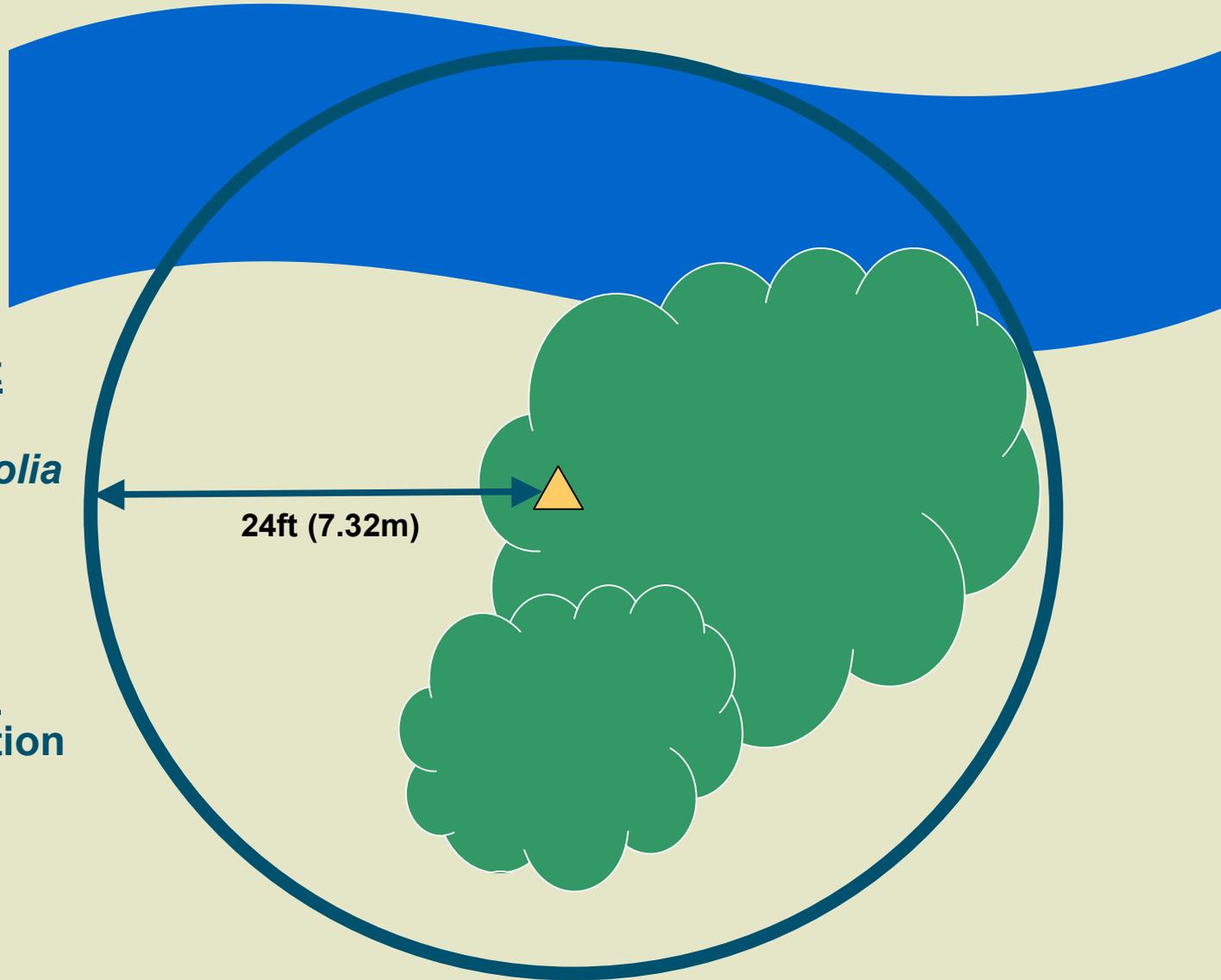
Remaining Vegetation

Bareground

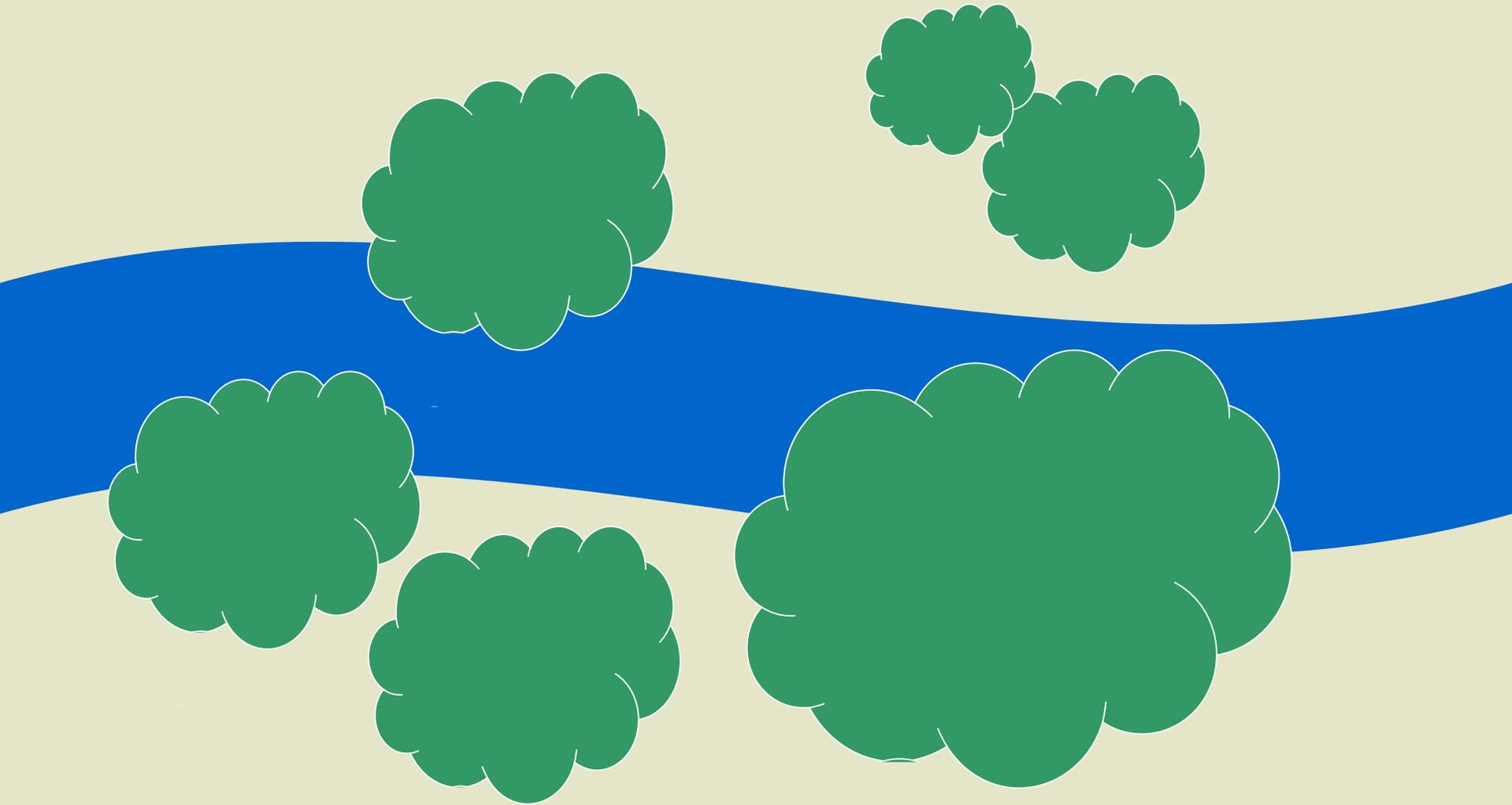
Rock

Water

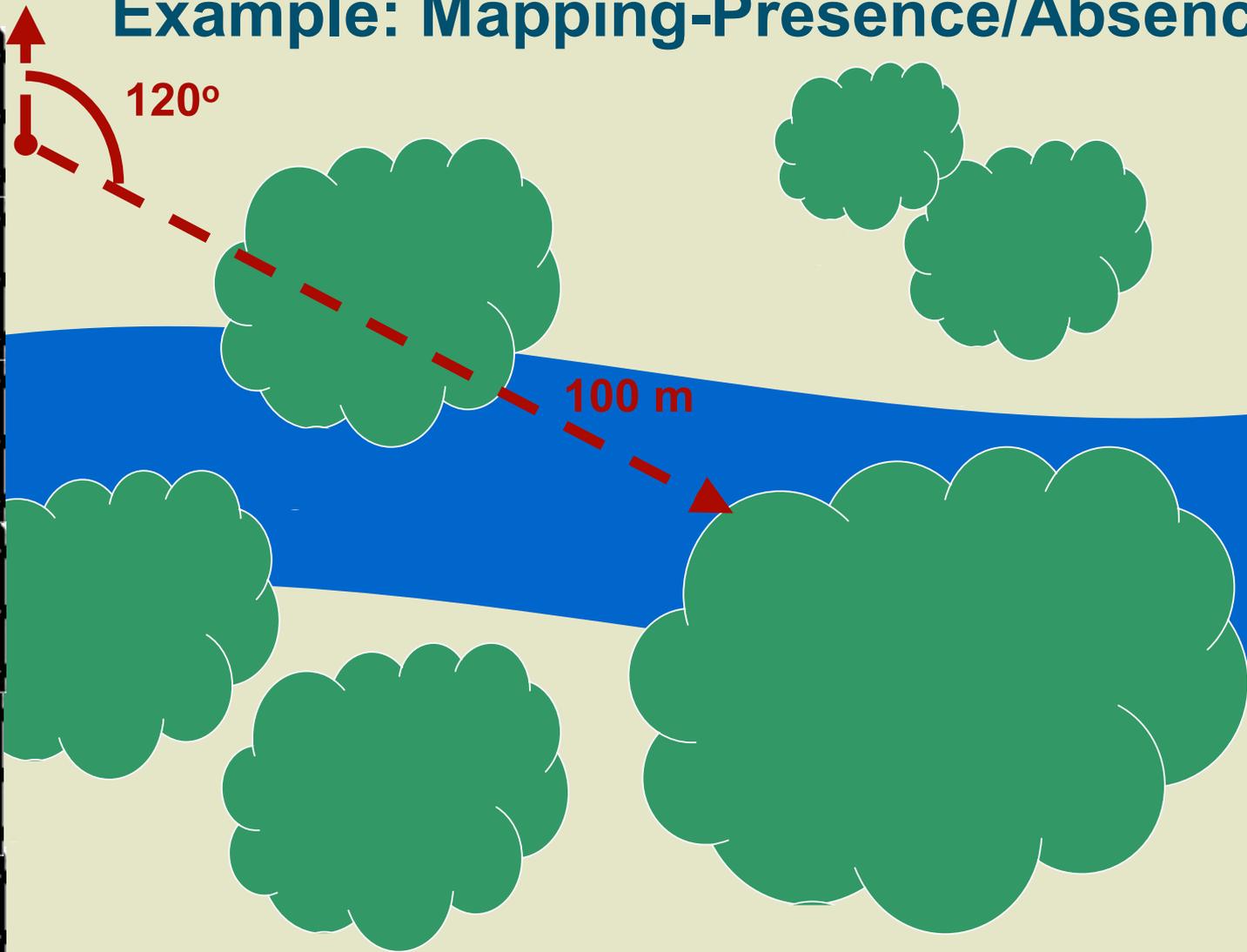
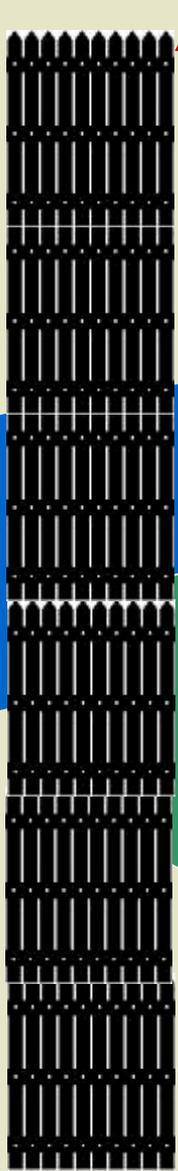
Vegetative Litter



Example: Mapping-Presence/Absence



Example: Mapping-Presence/Absence



Acknowledgements

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 Jim Quinn, Ginger Bradshaw, Sunil Kumar, and many, many others...



For more information contact:

