

Amphibian Migrations and Road Crossings Project Volunteer Training
February 22, 2024 5:00PM - 7:00PM
Hudson River Estuary Program

1 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:00:05.102 --> 00:00:11.369

Hi everyone! welcome to tonight's Amphibian Migrations and Road Crossings virtual training.

2 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:00:11.369 --> 00:00:21.060

Uh, thank you for joining us. Um, my name is Emma Clements, I'm the project assistant. Uh, and I'm here tonight with Laura Heady and Madeline McDonald, my colleagues.

3 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:00:21.060 --> 00:00:27.720

Um, and I'm going to get into some Webex housekeeping before we get into the meat and potatoes of this training tonight.

4"Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:00:27.720 --> 00:00:41.610

So, you can adjust speaker settings at the top menu under audio and video. Remember, we do recommend using your phone to call in, um, or to have it call you just because, you know, it reduces those glitches.

5 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:00:41.610 --> 00:00:48.030

And any sound and audio issues. And if you have any technical difficulties, just ask us in a chat box.

6"Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:00:48.030 --> 00:00:57.090

Um, which is in the lower right hand corner. Please send any questions through our Q and A box.

7 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:00:57.090 --> 00:01:16.740

Just don't use the chat box if you can for any questions. So everyone can see them. Um, any reminder you will not be able to see other attendees names. If you write something in the chat box it will go to just our team. Um, if you don't see the Q and A box, click the 3 white dots in the lower corner, um, the lower right hand corner to expand your options.

8"Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:01:16.740 --> 00:01:22.347

I am going to pass back to Laura. Great.

9"Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:01:22.347 --> 00:01:44.630

Thanks thanks, Emma. Can you hear me? Okay. Great. All right. Um, yes, welcome everybody so happy to have you all join us. Um, and before I jump in just big thanks to Madeline and Emma, who are co-presenting today as well as our colleague sherrri who is online to help us with any technical problems we might have but we really appreciate

10"Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:01:44.630 --> 00:01:48.630

you, uh, joining us for the virtual training um.

11"Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:01:48.630 --> 00:01:51.780

I'm Laura Heady I'm the Conservation and Land Use Program Coordinator

12"Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:01:51.780 --> 00:01:58.050

with the DEC's Hudson River Estuary program and Cornell University.

13 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:01:58.050 --> 00:02:07.890

So, uh, before I jump in, if you read, uh, the email that Madeline sent out, and the information shared with you, when you first registered.

14"Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:02:07.890 --> 00:02:16.050

Uh, you know, that today is kind of a condensed version of our in person trainings so we can't cover everything tonight. Uh, but we hope that.

15 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:02:16.050 --> 00:02:20.760

You've viewed the recommended YouTube modules and that those.

16 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:02:20.760 --> 00:02:36.750

Presentations in combination with other online resources and tonight's session will prepare you for volunteering and help you better understand how you go about volunteering. Uh, so we hope you did your homework and watched those modules.

17 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:02:36.750 --> 00:02:56.750

Okay, so we have a lot to cover we're gonna jump right in. Um, you probably gathered if you watch the introductory, uh, module that the amphibian migrations and road crossings project is, um, a project of the Hudson River estuary program in collaboration with Cornell University, and the.

18 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:02:56.750 --> 00:03:05.610

Hudson River Estuary Program focuses not only on the estuary portion of the river, which is the tidal part of the river, but it also includes the

19 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:03:05.610 --> 00:03:22.890

lands and water bodies that drain into the Estuary and help to keep the watershed healthy, help to keep the ecosystem functioning and that includes forests and wetlands uh, which we'll be talking about today. So, all of those pieces of the, the drainage that goes into the estuary are important for maintaining its health.

20 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:03:22.890 --> 00:03:42.890

For those of you new to the estuary program, it's a non regulatory program within the New York State Department of Environmental Conservation, and our work is outlined in a 5 year action agenda that has strategies and targets that we work on to achieve these key benefits. That are listed on the slide and we're actually.

21 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:03:42.890 --> 00:03:57.630

Currently working on our next 5 years strategy, which will start in 2026. so, uh, already thinking ahead to the next well, 5 years at end in 2030. so you can read all about all about that on the DEC website.

22 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:03:57.630 --> 00:04:03.420

And just as a reminder, there's the map that shows the drainage, the green area.

23 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:04:03.420 --> 00:04:09.390

Is the watershed that connects the lands, uh, to the, uh, tidal portion of the Hudson River

24 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:04:09.390 --> 00:04:30.770

And at the Estuary program, I lead our conservation and land use team, which focuses on helping municipalities and land trusts and other partners that are working throughout the watershed to help protect important natural areas through planning. Um, and so if you're interested in learning more about.

25 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:04:30.770 --> 00:04:50.770

That approach through, uh, local conservation, regional conservation. You can learn about that on our website, which, uh, Emma will share the email address in the chat box. And there's lots of information about bio diversity as well as examples of how this approach is being used through communities around the Hudson Valley.

26 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:04:50.770 --> 00:05:03.269

So, I guess before I get into the project, I'll just share a little bit of my own story and how I came to the amphibian migrations project. So I've been working on.

27 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:05:03.269 --> 00:05:16.469

Conservation planning with municipalities and the Hudson Valley for, uh, 20 years now about. And, uh, before that, I actually did my graduate work out in Idaho where I was working on a pigmy rabbit.

28 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:05:16.469 --> 00:05:36.469

Habitat study as well as helping with the mountain lions study and, you know, in Idaho, the biggest conservation challenges were related to management of some of the desert and the, you know, the the conflict with ranching needs, um, as well as, um, habitat fragmentation, uh, to some extreme, there's just some extent, but not.

29 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:05:36.469 --> 00:05:56.469

To the extremes that we see here, so when I moved to New York and started working on Blanding's turtle habitat conservation, I quickly learned about, uh, the the impact of development and roads that fragment habitat. So, in the case of Blanding's turtle, they are semi aquatic freshwater turtle. They were trying to move from their.

30 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:05:56.469 --> 00:06:16.469

Core wetland areas upland to go, um, and lay eggs and they often ran into roads and so, um, seeing the difference between the issues out West and and the East really helped me understand the kinds of threats that we face when we think about wildlife conservation and so, in New York, I really gained a love

31 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:06:16.469 --> 00:06:29.699

Of a vernal pools and so our amphibian migrations and road crossings project is something that started back in 2009 um, to to help people learn about this group of amphibians species that live in a forest.

32 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:06:29.699 --> 00:06:49.699

And migrate to these small wetlands called woodland pools in early spring, and late winter, um, to breed and then they return back to the forest. And, um, as you can imagine, uh, many of the species that are moving across the landscape to get from one, part of their habitat to the other encounter roads on the way. And so for.

33 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:06:49.699 --> 00:06:59.699

vernal pool, breeding, amphibians that resulting mortality is, uh, can be significant even in low traffic roads. So, um, that's one of the reasons why.

34 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:06:59.699 --> 00:07:03.179

Many amphibian species are actually of conservation concern.

35 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:07:03.179 --> 00:07:16.319

And so, before, kind of getting any further into today's presentations, I just want to make sure everybody understands what makes an amphibian an amphibian. And I like to share the anecdote that I once heard.

36 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:07:16.319 --> 00:07:36.319

Uh, David Sedaris giving a presentation during one of his book tours, um, at, uh, I think it was in Poughkeepsie, and he referred to turtles as amphibians and I cringed in the audience and I waited on the signing the book signing line to make sure, he knew that, uh, turtles are actually reptiles, not amphibians so it's always a good reminder not to.

37 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:07:36.319 --> 00:07:56.319

assume. I just wanted to go over what makes an amphibian an amphibian. in part. I mean, a big part is that they're ectothermic, meaning that they really rely on their surroundings and their environment to control their body temperature. And so that's one of the reasons why their migration nights when we try to predict when they're going to be migrating are so

38 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:07:56.319 --> 00:08:18.319

Tied to temperature. another reason why we can predict their migration is, is there a need for their skin to stay moist. Right. So, we, we expect they're going to really make their major Overland movements on rainy nights so that their skin can stay moist. And the reason that's important is because their skin is permeable and it transfers both oxygen and water.

39 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:08:18.319 --> 00:08:31.889

Directly through their skin and they live on land and water and so if I jump ahead here at my slides, the word amphibian, uh, means amphi refers to both kinds. and bio-

40 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:08:31.889 --> 00:08:42.869

Life. so both kinds, they live on both kinds of habitat, both, uh, land and water. And in the case of the amphibians were, uh, talking about it and most most amphibian species in New York.

41 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:08:42.869 --> 00:08:48.479

They return to water to breed, but they live on land and there are some examples of.

42 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:08:48.479 --> 00:08:53.909

amphibians that live in water all the time, the ones we're talking about tonight, live in the forest.

43 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:08:53.909 --> 00:08:56.999

So they're upland species, and they breed in water.

44 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:08:56.999 --> 00:09:09.599

And they have very fragile eggs and, uh, in this example, here we see, um, some probably either spotted or Jefferson's salamander eggs, probably spotted and they're, um, they have these embryos.

45 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:09:09.599 --> 00:09:26.399

That are surrounded by a little jelly envelope and that jelly is what keeps them, um, uh, protected in the water. But also, if things start to dry up a little bit in the temporary waters, where they are, that helps to keep them, um, uh, to keep keep them moist.

46 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:09:26.399 --> 00:09:33.179

And then I also just wanted to pause to share a little bit about the amazing diversity.

47 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:09:33.179 --> 00:09:36.329

That we have here in the Hudson Valley, so, in the state of New York.

48 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:09:36.329 --> 00:09:56.329

We have, um, let's see, 32 species of amphibians that includes frogs, toads and salamanders and of those 32 species that are known to occur in New York state about 85% of them occur right here in the Hudson Valley. And that's because we have such amazing diversity of habitat types.

49 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:09:56.329 --> 00:10:06.599

So, when I talk about, like, why should we care about biodiversity? Like, what is the role of local governments or land trusts or conservation organizations helping to protect.

50 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:10:06.599 --> 00:10:21.239

Our diversity is like the Hudson Valley is like, a really important part of New York biodiversity. So we all have a role, whether we're at the landowner stage, or the state agency stage. We all have a role to play in, um, conserving this amazing diversity that we have.

51 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:10:21.239 --> 00:10:32.729

And so, yeah, so let me just take a minute to reflect on the goals of this project. Some of which you might have heard about in the YouTube presentation. But it includes that, um.

52 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:10:32.729 --> 00:10:37.079

We're raising awareness, right. So a lot of people I talk to.

53 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:10:37.079 --> 00:10:47.579

They have never even heard of a vernal pool, or woodland pool. they might not understand the importance of the connections between vernal pools and forest habitat. And they might not understand.

54 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:10:47.579 --> 00:11:00.719

How our land use decisions where we decide to place a road, or a house, or a development, or a new strip mall? How that placement of that development really can impact the land and the landscape.

55 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:11:00.719 --> 00:11:07.769

So, raising awareness, we also are using this project as a means to locate crossings where.

56 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:11:07.769 --> 00:11:15.119

Migrating amphibians are encountering roads because it's not like there's a big map that existed before this project.

57 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:11:15.119 --> 00:11:19.409

And even now, we're just still building our understanding of where.

58 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:11:19.409 --> 00:11:33.299

There is high levels of activity in certain road locations. So, uh, we're learning about those road locations. We're learning where road mortality is high, and we're also learning about the conditions of the migration so we could identify potential conservation opportunities.

59 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:11:33.299 --> 00:11:40.559

Of course, we also want to provide a safe and rewarding experience for volunteers and help people connect to nature.

60 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:11:40.559 --> 00:11:45.779

I often joke that if I was to hang up a flyer at the library and say,

61 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:11:45.779 --> 00:11:49.919

You know, I'm giving a lecture on habitat fragmentation and land use.

62 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:11:49.919 --> 00:12:08.879

There's probably some of us who would be like yeah, I'm there, but I think if I put up a sign of an amazingly charismatic salamander face, instead of going to be talking about amphibians and salamanders and frogs and toads, then more people would show up. And so through this project, we're hoping to help connect people to this.

63 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:12:08.879 --> 00:12:15.359

Aspect of nature that very few people know about, but also understand the threats and the ways we have a role in addressing those threats.

64 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:12:15.359 --> 00:12:30.179

Of course, through that, hopefully support, hopefully people will support local conservation initiative. So, if your town, for example, is proposing to start protecting vernal pools, then maybe you would show up.

65 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:12:30.179 --> 00:12:49.529

To support that, uh, initiative, because of your understanding that you've gained through this project. And then finally, I hope the data that our, our volunteers are collecting might be used by other, uh, collaborative science researchers to maybe ask more questions about the ecology of some of these species.

66 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:12:49.529 --> 00:13:09.529

And so quickly, then I just want to share a little bit of the progress on those goals since the project started in 2009. and that includes we've had over 1000 volunteers, participate, not all a 1000 have participated every year of the 15 years of the project. Some have participated for more.

67 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:13:09.529 --> 00:13:21.209

And others, we definitely want to see repeat volunteering. Uh, we have had almost 1500 surveys at different road locations throughout the valley in that time.

68 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:13:21.209 --> 00:13:25.859

We've also had some folks join us from outside of the watershed. Um.

69 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:13:25.859 --> 00:13:45.859

And we appreciate that as well there's been over 65,000, amphibians counted. Um, and fortunately 75% of those were live and and over more than 38,000 were helped to move across the road. And so, uh, that's an amazing immediate impact.

70 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:13:45.859 --> 00:13:52.109

And about 20 species have been observed.

71 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:13:52.109 --> 00:14:12.109

And if you watch the modules, you would have gotten a good taste of the ecology, hopefully, of woodland pools. So to see who did their homework madeline's gonna queue up a little survey. And what I would love it. If everybody could write in a word or a phrase that describes woodland pools, and we'll see if.

72 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:14:12.109 --> 00:14:20.909

everybody, you know, did their homework and watched the YouTube video. I'm going to just add the words vernal pool to get myself started here.

73 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:14:20.909 --> 00:14:28.529

So, I can see what everybody adds. Oh, okay. I'm going to start reading off some of the, um.

74 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:14:28.529 --> 00:14:40.889

Some of some of the great feedback you're already or some of the great words we're using. So, uh, seasonal, ephemeral, temporary, transient. Those are great. So, those kind of help.

75 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:14:40.889 --> 00:14:47.909

Uh, remind us that these are pools that are only here for part of the year. So they're generally filled with water.

76 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:14:47.909 --> 00:15:02.669

Um, in, um, uh, late winter and spring, and then they dry up in the summer. They're temporary, right. So, they're also, um, their standing water in the forest often found at the base of a slope. Um.

77 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:15:02.669 --> 00:15:10.559

They're temporary and isolated. That's right. So they sit in a little isolated basin, uh, in the forest.

78 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:15:10.559 --> 00:15:25.559

And that leads them often, uh, drying up in summer. So, in that little isolated basin, they're collecting snowmelt, they're collecting rainwater but then, because there's not a steady supply of water, they're drying up in summer.

79 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:15:25.559 --> 00:15:30.389

See, I'm also seeing full of frogs. That's right.

80 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:15:30.389 --> 00:15:50.389

Uh, noisy from all the frogs calling. I'm assuming a nursery, right. So, because they're seasonally flooded and because they don't have fish, um, or consistent water supply they're, um, a really good nursery for developing frog eggs and tadpoles and salamander eggs and larval salamanders.

81 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:15:50.389 --> 00:15:55.409

They're also peaceful. Uh, yes. Um, and.

82 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:15:55.409 --> 00:16:15.409

That's great and important to habitat and they're vulnerable. That's right. They're vulnerable. And for those of you, who've been paying attention. You'll know that there has been a Pre proposal for New York state to expand its protection of New York States, fresh water wetlands to article 24. and that would include some protection of vernal pools. So it's a very exciting change.

83 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:16:15.409 --> 00:16:35.409

Potentially in New York's wetland regulations, so great. Thanks. It looks like many of you did your homework and I appreciate all the feedback. So, Madeline, we can, um, wrap that up and I'm going to just point out that this slide has kind of a good montage of all the different looks what the pool might have.

84 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:16:35.409 --> 00:16:40.559

Um, through different times of the year.

85 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:16:40.559 --> 00:16:52.049

Oh, yeah, and as a reminder, this is all, uh, covered in YouTube training part 1 and, and I think Emma, if you haven't already, maybe you could share the YouTube modules. The link for the YouTube modules.

86 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:16:52.049 --> 00:17:12.049

So, when do, um, uh, vernal pool, breeding amphibians, uh, make their journeys to woodland pools from the forest and so it depends on where you live for those of us in the Hudson Valley. Generally, this trend has been in late February is kind of early, but it's not unheard of.

87 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:17:12.049 --> 00:17:30.629

And we're actually already looking ahead to next week when conditions look potentially possible, but they leave their winter shelters in the forest. For wood frogs they're probably frozen solid like this photo, where they become little frog popsicles that are completely immobile and inactive.

88 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:17:30.629 --> 00:17:50.489

Some of the salamander species are down in tunnels underground like, in the, the boroughs of small mammals. They might be in the channels that are created by roots, but just kind of hunker down in different crevices where they can, um, pretty much be inactive for the winter. And they're.

89 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:17:50.489 --> 00:18:01.319

They remain in that state until conditions line up and and we look for conditions that include, uh, as I mentioned rain, uh, which is important for their skin to stay moist.

90 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:18:01.319 --> 00:18:13.079

The ground is thawed and nighttime temperatures are around 40 degrees Fahrenheit and when we get a mix of these perfect conditions, we'll see. Um.

91 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:18:13.079 --> 00:18:21.599

Many, uh, individuals leave their forest overwintering, habitat and move to vernal pools for breeding. And I often joke that this.

92 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:18:21.599 --> 00:18:30.569

This image is not to scale, but it gives you a sense of like, in areas where there's no roads, you might have this beautiful, contiguous unfragmented forest.

93 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:18:30.569 --> 00:18:45.179

With some pools scattered throughout and on one of the big nights of the year when all the conditions are right. We'll see movement of all of these amphibians to the pools. And, uh, you know, but sadly, in many parts of the Northeast, um.

94 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:18:45.179 --> 00:18:52.139

We actually see this kind of migration happening where the amphibians need to, um.

95 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:18:52.139 --> 00:19:12.139

Travel across roads and long driveways and as I mentioned earlier, research has shown, and even in low traffic areas. There can be significant mortality. And so, again, getting back to the how you all did such a great job characterizing vernal pools because they dry up. It's important. For these amphibians to get to the pools.

96 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:19:12.139 --> 00:19:32.139

as early as They can, as soon as that abundance of water is present for them to breed, and hopefully have their young develop and leave the pools before they dry up in the summertime and so, um, kind of keeping track of where these migrations are happening on the landscape where they're encountering roads.

97 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:19:32.139 --> 00:19:40.469

Is where, um, volunteers come in and where this project comes in and where you can help if you decide to be involved or if you, maybe you already are.

98 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:19:40.469 --> 00:19:49.469

Um, and I'm going to shift gears to to Madeline and I, I just want to, uh, before I do give a little shout out.

99 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:19:49.469 --> 00:20:09.469

To I think we have some partners tonight hosting some other participants watching at a watch party, including Vassar college. Hello to vassar. and also Hudson highlands land trust. So hello to you. And then also just wanted to say hi to anybody who views this as a recording after tonight. So, we really appreciate everybody.

100 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:20:09.469 --> 00:20:16.737

who has joined us and with that Madeline, and I'm going to stop sharing and have you talk about what volunteers can do to get involved.

101 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:20:16.737 --> 00:20:36.589

Thanks Laura. Hi, everyone, I'm Madeline. I'm the assistant coordinator for this project, and I worked for the Hudson River Estuary program in conjunction with Cornell University, and I'm going to talk a little bit about what being a volunteer with this project even looks like. Laura gave some great background for vernal pools.

102 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:20:36.589 --> 00:20:39.929

But let's talk a little bit about what you all can do to get involved.

103 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:20:39.929 --> 00:20:51.239

So, I'll be referencing the volunteer handbook throughout this section. It is available on our Web site. If you're following along, we'll try and keep up with some page numbers for you as well.

104 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:20:51.239 --> 00:21:11.239

But what is an Am&RC volunteer even do well, first, way that you help us is by finding and documenting road crossings throughout the Hudson Valley. We don't know where all the amphibians are crossing roads in this region. So it's helpful for us to have. It documented through volunteers through you all who have eyes everywhere throughout.

105 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:21:11.239 --> 00:21:24.449

Hudson Valley, and then once you've found these amphibians crossing the road, and you've seen that you've seen areas where there could be some mortality it's also great. If you go out there and help them cross the road and.

106 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:21:24.449 --> 00:21:27.869

Try to prevent them from getting hit by cars. Um.

107 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:21:27.869 --> 00:21:33.179

Of course, we want you to all to do this safely and we'll talk a little bit more on how to do that later in this presentation.

108 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:21:33.179 --> 00:21:53.179

And then, while you're out there, that was my, my Siri wanted to get involved with this presentation. Um, but once you're out there, when you're helping amphibians cross the road. Um, it is also great. If you could record that information for us, let us know what frogs and salamanders are crossing and also record some data.

109 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:21:53.179 --> 00:21:59.759

The weather the traffic, um, and then also counting the dead amphibians that you encounter on your road.

110 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:21:59.759 --> 00:22:15.839

And most importantly, we want you to be safe when you're out there it is your number 1 priority it's your responsibility to stay safe. It is going to be a dark, rainy night when the amphibians are crossing. So, if you're out there with them, it's important to be really safe and like I said We'll talk about that later.

111 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:22:15.839 --> 00:22:32.399

So, what are your responsibilities? Well, we like, if you sign up for our AM&RC project emails, you can do that on our website. So the website's up in the top, right corner to subscribe to our email blasts. You have to scroll all the way down to the bottom.

112 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:22:32.399 --> 00:22:44.639

And when you do that, it's best to click daily, rather than the digest option. If you get our digest emails, they come on Sundays and if we're warning you about a crossing on a Saturday, you might miss it.

113 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:22:44.639 --> 00:22:58.859

So, what what these emails do, we'll send out information about potentially more trainings and then Laura, and I also keep track of the weather and we'll warn you if we think that the crossing conditions look good for a nice night to see some cool amphibians.

114 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:22:58.859 --> 00:23:10.739

Okay, so the next thing we like our volunteers to do is attended training, which you all already doing right now but if you need more information, or if you need to brush up on some of the things that we talk about today.

115 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:23:10.739 --> 00:23:24.869

We have a YouTube series, a YouTube video series that have different modules to help you refresh. Maybe what you forgotten after tonight, maybe if the migrations in a month or so, you'll need some, some more reminders on what what the procedures are.

116 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:23:24.869 --> 00:23:41.939

Um, and then we also ask that you read through our volunteer handbook it's also available on our website. Um, and we're on page 3 right now, if you're following along there are some really helpful tips and tricks in the volunteer handbook. So, it's helpful to read it from cover to cover.

117 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:23:41.939 --> 00:24:03.319

And then we also ask that, you learn to identify different species of salamanders and frogs that are in this region. So, we have about 8 that we consider to be the most commonly seen species. Those are in the ID guide also on our website, and we ask that you learn to identify them so that you can best record the species that you see out.

118 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:24:03.319 --> 00:24:21.479

When you go out on an amphibian night crossing and we have a YouTube video for that as well. So, if you, if you need a little brush up on your amphibian ID skills, please go to our YouTube page and watch the 5th video, which is the amphibian identification video. And I think if you.

119 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:24:21.479 --> 00:24:25.499

If you did your homework before, it's not you might have already watched this YouTube video.

120 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:24:25.499 --> 00:24:47.209

And then if you leave this training tonight, and you just think, wow, I loved it. I need some more information about vernal pools and amphibians. These are some great resources for you to learn a little bit more if you've really gotten a hooked on vernal pool science and amphibian identification so these are on our website, you can you can get a link.

121 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:24:47.209 --> 00:24:53.939

For these different books on our website, but you can also write them down right now. And they're in the, um, the volunteer book as well.

122 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:24:53.939 --> 00:25:05.789

All right, so, like I said, safety is the number 1 important thing to think of the night. You go out on a volunteer crossing. So what can you do to stay safe and be prepared.

123 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:25:05.789 --> 00:25:25.789

Like said number 1 important thing, keep yourself safe. Let's all where our reflective safety vest when we're out crossing the road with our little froggy friends, you're gonna wanna wear something with reflective material on the vest. And you're also going to want to wear a head lamp. So, cars can really see you, they're not going to be expecting to see people.

124 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:25:25.789 --> 00:25:35.309

Their own, they're not going to be expected to see people on the road on the dark rainy night. So it's really important to to wear something reflective and to have flashlights.

125 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:25:35.309 --> 00:25:54.749

It's also, I mean, we say it's a warm night when the frogs cross. It's warm to frogs. It's not so warm for us. So, it's going to be cold wear a lot of layers wear rain gear, if you have rain pants wear those as well, but just be prepared to stay, stay prepared for the weather by wearing those warm layers.

126 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:25:54.749 --> 00:26:11.309

And bring a buddy, it's not good to go out alone. You're out on the road it's dark. It's very distracting. There's so many great frogs and salamanders crossing, and it can be distracting. So it's good to have a buddy. So both of you can be on the lookout for cars and be on the lookout for frogs.

127 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:26:11.309 --> 00:26:30.929

And stay alert, so it's sometimes nice. 1 person can be focused on the ID of these amphibians and taking notes and recording data. And then 1 person can be kind of the lookout keeping their eyes on the road for cars. So, it's nice to kind of have a system like that, where you can switch back and forth.

128 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:26:30.929 --> 00:26:40.709

And please do not interfere with traffic. It's not our job. Don't interfere with the traffic or drivers or a flag down any drivers when you're out volunteering with us.

129 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:26:40.709 --> 00:27:00.709

And if, you know, you might not flag them down, but they might stop and talk to you. Because, like I said, they're not expecting to see people hanging out on the side of the road on a rainy night. So, if a car does stop, it can be helpful to have our woodland pool conservation fact, sheet also on our website and our little vehicle sign that you can put in your car.

130 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:27:00.709 --> 00:27:10.409

And it has little QR code for our website. So if you do have some curious drivers asking questions, you can, you can refer them to these materials.

131 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:27:10.409 --> 00:27:28.739

So Here's our checklist for the night of this is in our handbook on page 3 we have quite a few things. I'm not going to read everything out loud, but some of those optional items, a blinking light. If you're a cyclist or a biker, it can be helpful to have even more lights on the back of your vest to make yourself even more visible.

132 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:27:28.739 --> 00:27:36.239

If you're in a place that gets a lot of amphibians and you're wanting to cross a bunch at the same time, you can bring a clean bucket out.

133 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:27:36.239 --> 00:27:56.239

Um, it's important that needs to be clean, because we don't want any fragrance or, um, dirt, touching the amphibians. They are very sensitive. Um, you can also bring spatula out. Unfortunately, you will likely see dead amphibians if you go out and volunteer. So so it's not for the faint of heart to pull a dead frog or salamander off the road.

134 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:27:56.239 --> 00:28:06.359

So, it can be nice if you want to move 1 record it, and then move it off the road with spatula and you're going to take lots of photos to bring a camera or phone.

135 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:28:06.359 --> 00:28:10.949

Uh, a brimmed hat will help, keep the rain out of your face and umbrella could do that as well.

136 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:28:10.949 --> 00:28:32.119

So you might have some children, in your life who really want to see a spotted salamander but there are some things to consider before you take a child out on a volunteer crossing. So, are they going to follow directions? Can they be safe around traffic? Can they be gentle with these amphibians and will there be a ratio of one adult to each child?

137 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:28:32.119 --> 00:28:37.499

If you've answered no, to any of these questions consider not bringing them and wait until they're a little bit older.

138 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:28:37.499 --> 00:28:40.799

And this is on page 5 with the volunteer handbook if you are following along.

139 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:28:40.799 --> 00:29:02.659

Okay, so next that we ask that you watch the weather, we will try and email you before a good condition. The good conditions for road crossing, but there's some regional differences in weather. You might be at a higher elevation where it's a little bit colder, or you might be further north or further south than Laura and I, so it's good to know what weather to

140 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:29:02.659 --> 00:29:10.499

Look for so these amphibians need a few days of dry, warm weather. They need to be completely thawed.

141 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:29:10.499 --> 00:29:21.809

Um, but they will start moving on a rainy night, a warm, rainy night, as you say, which means that they'll wait until after sunset when the weather is above 40 degrees and raining and they will cross.

142 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:29:21.809 --> 00:29:27.719

Likely, as long as it's raining, but you need those few more days to thaw them out in advance. Um.

143 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:29:27.719 --> 00:29:38.399

So this is kind of like an a perfect example of what the weather could look like. Um, on this little picture screenshot on the right what a perfect condition could look like, uh, for a crossing.

144 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:29:38.399 --> 00:29:49.469

And we might get multiple crossings this year could be a lot of little ones. We could get 1, big night, a couple of big nights. So it varies year to year. And we'll try and keep you in the loop. Um, as those nights come up.

145 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:29:53.219 --> 00:30:00.359

Okay, so let's remember the next thing we need to do is to be careful with the amphibians that we're trying to help move across the road.

146 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:30:00.359 --> 00:30:06.659

When you're assisting them, we don't want to hurt them. There's a couple things we like to think of when we go out the night of.

147 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:30:06.659 --> 00:30:23.249

You're gonna want to park in a spot that's just a little bit far further away from where the actual crossing is because we don't want to run them over with our car. We're going to help them move away from cars and we're going to want to park also where we're not directly in front of a house or someone's home. try to be respectful of.

148 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:30:23.249 --> 00:30:43.249

Private property as you can, and when you're out walking along the road, let's also try not to step on the amphibians. Uh, it's nice. This picture up on the right hand. Corner shows a really great practice of flooding the, the road with a bunch of lights. Those people all have headlamps on and they have flashlights in their hands. So really.

149 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:30:43.249 --> 00:31:03.249

flooding the road with light helps you prevent from- it helps you not step on an amphibian and it's also nice to try and stay on the street as much as possible, keep your feet on the street obviously, unless it's unsafe. The amphibians are a little bit harder to spot in the grass. So if you're walking in the grass, you could potentially step on them. So where, where it.

150 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:31:03.249 --> 00:31:23.969

safe Try and stay in the street and flood the light. and make sure your hands are clean. I said the bucket needs to be clean as well, but make sure your hands are clean, clean and free of sanitizers, scented lotions. All those sanitizers and scents can really disturb the skin of the amphibian. They like to breathe through their skin. So try and keep.

151 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:31:23.969 --> 00:31:31.469

Your hands free of all those the night of and try and keep them damp. You can wet your hands with some rain water um, before you pick one up.

152 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:31:31.469 --> 00:31:47.759

And when you are picking them up to move them, please move them in the direction, they were already going. We don't really know they could be going in different directions. You could be out having amphibians going in opposite directions of each other. Just trying to keep them in the direction they were going. They know where they want to go.

153 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:31:47.759 --> 00:31:54.569

If you're moving a dead amphibian with a spatula, you can just move it off the side.

154 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:31:54.569 --> 00:32:03.719

And when you do move them, maintain that gentle grip, but you can hold them firmly. They're not, they're not so sensitive to that. Just don't squeeze them.

155 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:32:03.719 --> 00:32:15.989

And try and handle them as little as possible. We don't want to warm up their skin. They're out on these cold nights, but if the more you hold them, the more you're going to be warming them, which isn't great for them.

156 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:32:15.989 --> 00:32:25.675

And with that, I'm going to pass it off to Laura, who is going to be talking a little bit more about recording data and submitting your observations.

157 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:32:25.675 --> 00:32:30.569

Great Thank you Madeleine. Let me just share.

158 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:32:30.569 --> 00:32:45.959

Okay, yeah, so, as Madeline said, I'm going to talk a little bit about, um, collecting data, which is an important part of the project. And I will say that if you.

159 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:32:45.959 --> 00:32:54.989

Uh, or going out, just to witness the migration and help move them across the road you know, we appreciate that as well. Hopefully.

160 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:32:54.989 --> 00:32:58.349

Tonight's training will also help you recognize that.

161 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:32:58.349 --> 00:33:02.969

If you are able to take the time to collect accurate data.

162 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:33:02.969 --> 00:33:08.459

Those have a lot of value for us being able to use this project as kind of a springboard.

163 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:33:08.459 --> 00:33:20.399

For conservation action, so Here's some tips on collecting data. Um, so you're going to be hearing from Emma in a little bit about entering your data online, but when you go out.

164 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:33:20.399 --> 00:33:30.119

On the night of the migration, we suggest you bring a clipboard with your, um, a printed data form on it. And, uh, if you can see me, um.

165 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:33:30.119 --> 00:33:39.179

We'd like to use our laminated ID guide to protect the, um, data form let's see. Where can I get that in there? We go, um, uh, the laminate ID guide.

166 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:33:39.179 --> 00:33:59.179

To protect the data form, and he'll keep it dry. You could also use like, a plastic sleeve, um, in any case, record your data on a printed form. Um, and then you can use that to enter your data online when you're back inside and you're comfortable sitting in front of the computer. We also would like it. If you could use a different data.

167 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:33:59.179 --> 00:34:07.139

A form for each road you go to, because I'm going to show you a screenshot later of our Excel database, but we have over.

168 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:34:07.139 --> 00:34:19.619

1500 roads each representing a different road stretch and when people combine roads into the same spot, it kind of minimizes the value of the geographic data for us.

169 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:34:19.619 --> 00:34:26.429

We also really are encouraging and actually close to requiring.

170 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:34:26.429 --> 00:34:31.529

This year that volunteers take a photo.

171 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:34:31.529 --> 00:34:40.409

A representative photo of every species you see so we're not asking for a photo of every individual. You see, but if you go out and do you see a spotted Salamander.

172 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:34:40.409 --> 00:34:59.579

A red back salamander, American toad and a wood frog we want a picture of each of those species so that we know that you've identified them correctly, this is also gonna improve the quality of our data, the ability for us to use it. Um, on the slide, right now you're seeing a photo that I took of a 4 toed salamander and.

173 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:34:59.579 --> 00:35:05.069

What's good about this while I can't actually count the number of toes on the rear.

174 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:35:05.069 --> 00:35:25.069

A foot in this example, which would be very hard to see anyway I can see the white belly with the black dots, which are a signature characteristic of this species. So, when when you take photos don't take a photo that makes us think that individual is in a witness protection program because it's so blurry. We can't make.

175 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:35:25.069 --> 00:35:45.029

Who it is, um, instead we want to see some indicator of the of the characteristic that lets us know for sure. That's what we're talking about. That's the species that we, uh, need to identify. So, um, we also encourage you to take photos of any species that you can't identify that you want to help with and you're able to upload those.

176 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:35:45.029 --> 00:35:50.759

When you enter your data, but you also could always email them, uh, to 1 of us. And we'll try to help you. But again.

177 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:35:50.759 --> 00:36:07.769

Multiple angles, and it's not a bad idea to practice using your smart phone or your camera out in the dark, uh, go practice, taking pictures of some, maybe some sticks in your yard or some rocks to learn how to focus at night and use the flash.

178 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:36:07.769 --> 00:36:26.849

Um, so that you can get some clear shots. You're welcome to continue, um, collecting data for as little as long as you would like I'll talk a little bit about this later. But a couple hours is a good, good number depending on how many people you have. And how many eyes are on the on the road.

179 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:36:26.849 --> 00:36:46.849

but again too one thing to think about in terms of when to turn it in for the night is that traffic does start to peter off as the night progresses so the risk of mortality of the amphibians on the road also decreases so um i feel like a lot of people go out from maybe between the window of 8Pm-11PM depending on

180 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:36:46.849 --> 00:36:55.769

if We've already hit the daylight savings time and the clocks what's springing forward. Um, but again they're moving around at night in the dark.

181 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:36:55.769 --> 00:37:05.909

Also, a big reminder to when you 1st, start out, take a minute to fill out some of the basics on your data form before you even get on the road what time you're starting.

182 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:37:05.909 --> 00:37:16.049

Where you are, um, the temperature, when you 1st start, and then you'll also keep track of the traffic. So about how many cars go by in a 20 minute period.

183 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:37:16.049 --> 00:37:21.179

We're also going to want to know the distance of the road you surveyed and that also.

184 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:37:21.179 --> 00:37:41.179

Helps with, um, uh, uh, how we look at the data geographically and I'll show you an example of that, uh, later, uh, in the presentations. And then also, um, Madeline shared some, uh, cautionary advice about ensuring that you're not causing mortality and amphibians. And so that would include when you're leaving.

185 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:37:41.179 --> 00:37:51.299

The site, and when you're driving home, we know that some people are uncomfortable with the idea of even taking their car out on rainy nights because they live in an area where there's so much amphibian activity.

186 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:37:51.299 --> 00:38:11.299

If that's the case, then you can't do it safely, then maybe you should avoid being out on the road but if you can do it safely park your car safely leave the site safely without causing more mortality amphibians um, then hopefully the value of your helping move them across the roads and collecting data, uh, outweighs, um, and and eliminates any concerns about.

187 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:38:11.299 --> 00:38:17.100

Uh, driving over any more amphibians when you're coming or leaving the site.

188 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:38:17.100 --> 00:38:27.090

Another big important piece of the science aspect of this project is to submit your data even if you don't see amphibians or even if you just see a few because.

189 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:38:27.090 --> 00:38:47.090

If somebody down in Putnam county is out and it's raining and it's 45 degrees, and they're seeing lots of amphibians and their gathering data and I go out and I have rain in 45 degrees in Rosendale but I'm not seeing anything then chances are if it was good habitat I would, but I'm probably in a spot that doesn't and those data.

190 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:38:47.090 --> 00:38:59.070

Help us understand the migration help us understand where important habitats might be. So we definitely want 0 data, um, as well as, uh, you know, if you have a lot of positive data, where you have seen amphibians.

191 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:38:59.070 --> 00:39:11.910

And then I just want to point out a close up of the data form I've been referring to on my clipboard. So there's a few sections is to draw your attention to on your screen. Again. We want to have the start and end time and temperature.

192 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:39:11.910 --> 00:39:15.600

You're going to characterize a little bit about the conditions in terms of weather.

193 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:39:15.600 --> 00:39:35.600

And also, 3 different potential categories of traffic, low medium or high where you kind of keep track of how many cars you hear in a 20 minute period. And then we get information from you on the migration costing location when you enter data, as you'll see from Emma's presentation, you will have a chance to actually put it on a map. But we.

194 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:39:35.600 --> 00:39:41.250

These descriptive parts of the data form to help us make sure that.

195 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:39:41.250 --> 00:40:01.250

Where your point is on the map is where you said, you thought you are, so that there weren't any issues with, um, maybe the mapping wrong. We also want contact information for you and, um, for anybody in your group that helps us, you know, follow up. For example, if we want to share some information or send you a little, thank you. And then on the back side is where.

196 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:40:01.250 --> 00:40:21.250

You'll track the live and dead salamanders species and frogs and toads and, you know, you can use kind of tick marks if you want, while you're gathering your data and collecting, um, or observing how many you're seeing and then you'll transfer that into the the online data form, and then as much as you're able kind of indicate, what's the general direction that they've been moving.

197 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:40:21.250 --> 00:40:30.030

In the evening, if it's too variable, because they're going back and forth, you not back and forth, but they might be going in 2 directions. You can let us know that.

198 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:40:30.030 --> 00:40:42.330

The reason that might happen is because, uh, males often arrive before females and on a subsequent migration night, you might actually see females, arriving, males, leaving, depending on what species they are.

199 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:40:42.330 --> 00:41:02.330

Um, you might also see late later arrivals of species, like, spotted salamander that might not move as early as Jefferson or blue spotted salamander or wood frogs so, we're kind of curious if you have a general sense of the direction they're moving. And then, uh, let us know how many you actually moved across the road and then you can share additional comments and all of this kind of.

200 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:41:02.330 --> 00:41:14.130

Connects to the online data form, which I'm going to stop sharing and let Emma take over now and walk you through how survey123 connects with this. So that you can now.

201 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:41:14.130 --> 00:41:18.060

Share your data digitally, and I'll just add that, um, this.

202 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

00:41:18.060 --> 00:41:35.094

Uh, opportunity for volunteers to enter their data themselves is a huge time saver for us in trying to understand handwriting and to actually enter paper data forms. But it also gives you a chance to double check and triple check what you enter. Um, so we just ask you to be careful as you do that.

203 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:41:35.094 --> 00:41:39.390

So, Emma take it away. Uh, and thank you. Oh, thanks, Laura.

204 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:41:39.390 --> 00:41:56.040

All right all right, so I will be walking you through our online data form. It's important that our volunteers really know how to correctly enter data online to reduce the amount of followup as Laura was just saying that we need to do, but also to keep our data as accurate as possible.

205 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:41:56.040 --> 00:42:11.010

So this is our online data form, and we hope our volunteers use it to submit the data, but when you're out on a migration night, you can use, or you can have the paper data form handy to record observations. You can either print it or have it up on your phone.

206 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:42:11.010 --> 00:42:23.520

And use some scrap paper to record your observations if you're out and then we want you to come home and enter the observations using our online data form. Uh, we do have the instructions in a PDF format.

207 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:42:23.520 --> 00:42:43.520

On our Web page, if you need to refer back to anything during this training during the demo, but you can also email me if you have any issues with the data form, or if you have any follow up questions, or during the season if you're having any issues or questions just let me know and yeah, we recommend using a desktop or laptop.

208 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:42:43.520 --> 00:42:53.070

Um, and a browser, such as pro and Microsoft edge to enter your data. But if you don't have a computer of some sort, you can actually use your phone as well um, to enter data.

209 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:42:53.070 --> 00:42:57.840

So, let's get into it, so this is our hello page.

210 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:42:57.840 --> 00:43:02.700

Welcome page, uh, next the 1st page is the date and time.

211 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:43:02.700 --> 00:43:16.110

Uh, so it's pretty self explanatory and also I've pre-filled a lot of information just to keep it moving along but yeah, we will. Have you enter the start time and date.

212 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:43:16.110 --> 00:43:23.100

And then the end time and date, and we have a handy little, uh, tool here where, you know, a little calendar pops up.

213 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:43:23.100 --> 00:43:28.890

And what we really want you to look for here is making sure that you are.

214 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:43:28.890 --> 00:43:33.900

Using P. M. and AM we don't want daytime observations, right.

215 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:43:33.900 --> 00:43:45.870

Uh, so it'll tell you, it'll yell at you in bright red writing, but, uh, I need to also estimate your survey duration as well down there, which is, uh.

216 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:43:45.870 --> 00:43:49.200

A nice thing to have as well. I think.

217 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:43:49.200 --> 00:43:57.390

Uh, let's go into the next section, so this is let me see if I can zoom in a little bit just cause, uh, this is temperature information.

218 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:43:57.390 --> 00:44:06.300

And Laura mentioned that this is these are kind of the observations, like, especially these 1st few pages, these observations will probably be.

219 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:44:06.300 --> 00:44:18.510

Good to jot down before, um, or, you know, on your way. If you have a buddy that can jot down these observations before you go out, um, at a survey location. Um, so.

220 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:44:18.510 --> 00:44:25.590

Once again, this will yell at you, let's say that I accidentally only put 4 instead of 45.

221 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:44:25.590 --> 00:44:35.430

Um, a little emoji kind of like thinking face, kind of like hmmm I don't know about that. You gotta check that again will pop up. Oopsie I made a mistake. There. We go.

222 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:44:35.430 --> 00:44:39.270

Um, and, you know, we always have some kind of space for comments.

223 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:44:39.270 --> 00:44:43.290

Um, if you feel like, its needed, definitely add it.

224 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:44:43.290 --> 00:44:56.310

I'm going to go to the next section to our weather conditions and traffic information once again with our conditions try and kind of think about that ahead of time.

225 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:44:56.310 --> 00:45:01.170

Um, so precipitation conditions during your survey.

226 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:45:01.170 --> 00:45:06.210

Um, did you observe any additional weather conditions during your surveys? So we have fog.

227 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:45:06.210 --> 00:45:11.070

Was it windy? Was there a light breeze or you didnt uh.

228 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:45:11.070 --> 00:45:17.280

Observe any of these weather conditions and then weather conditions in the past 24 hours.

229 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:45:17.280 --> 00:45:21.120

And then we're going to ask you about traffic conditions.

230 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:45:21.120 --> 00:45:25.980

Um, so, you know, light, medium or heavy, um, do your best.

231 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:45:25.980 --> 00:45:29.580

Uh, to count the amount of cars, every 20 minutes.

232 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:45:29.580 --> 00:45:36.420

The next section is crossing location information. Um.

233 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:45:36.420 --> 00:45:53.280

So, we only list the counties that we focus on here, but we do have an option for other. So, anyone that's submitting data that's outside of our focus area. You can, um, we'll have a place for you to enter in your municipality as well. Um, but if I choose.

234 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:45:53.280 --> 00:45:56.760

Uh, any of these counties I chose.

235 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:45:56.760 --> 00:46:16.760

ulster , another text box, this or this. Sorry this question will pop up town village or city. Um, and the municipalities that are in each of those counties. Those are the only ones that That'll show up. So, um, it's kind of nice in that way reduces more error. And it's a lot easier for our volunteers as well. Um, but if you.

236 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:46:16.760 --> 00:46:20.370

Don't know, don't worry. You don't have to enter in a municipality.

237 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:46:20.370 --> 00:46:24.270

Um, and the next, uh, we have road name.

238 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:46:24.270 --> 00:46:33.150

Nearest crossroad have you surveyed this route before? Is this a road crossing that you surveyed last year or a couple of years ago?

239 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:46:33.150 --> 00:46:53.150

Approximate length of the road you surveyed in miles please. So let's say I put in 5,000 feet. You know, sometimes we get that and we have to follow up and, like, you know, what was the actual length of the stretch? So I didn't mean that.

240 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:46:53.150 --> 00:47:02.190

I'm at half, .5 miles. Um, and we do have a little conversion or a reminder here. If you need to convert um.

241 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:47:02.190 --> 00:47:09.030

Additional comments on your crossing location once again, we kind of have another comment area if you need it.

242 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:47:09.030 --> 00:47:12.420

Um, move on to the next section.

243 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:47:12.420 --> 00:47:15.628

Are there any questions popping up?

244 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

00:47:15.628 --> 00:47:18.549

Laura or Madeline. no questions just yet.

245 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:47:18.549 --> 00:47:23.040

No, no questions yet. great Well, thank you. Um.

246 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:47:23.040 --> 00:47:42.030

All right now we're entering the map section. Uh, I'm gonna spend a little bit of time on this, just because I do get, I feel like this is where the most questions pop up and it can be pretty. it can seem a bit daunting if you haven't, you know, use maybe like a mapping tool or, um, you know, just in general, uh.

247 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:47:42.030 --> 00:47:45.120

When it comes to this, um.

248 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:47:45.120 --> 00:47:58.830

The way that it looks it can come off as a kind of confusing thing, but don't worry. It's not I promise it gets easier by the way. Um, so, 1st of all, I'm going to just let, you know, what's happening over here on the left hand side.

249 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:47:58.830 --> 00:48:09.840

Um, before anything, what I want folks to do is, I want you to go down here. Um, if I hover over it, it says large map. I want you to click that.

250 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:48:09.840 --> 00:48:13.350

Because it expands that a lot easier to see.

251 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:48:13.350 --> 00:48:24.870

Um, and then I've already changed the way that my Map looks, but you can go over here in the upper right hand corner and you can actually change.

252 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:48:24.870 --> 00:48:38.280

The way that you want it to look now, I like the streets version and the open street map version, just because it's a lot easier to see buildings and, you know, different, you know.

253 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:48:38.280 --> 00:48:41.370

Uh, features on the map, um, so I.

254 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:48:41.370 --> 00:48:50.640

Use that, but, you know, whatever floats your boat whatever makes sense. And then over here are some really important.

255 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:48:50.640 --> 00:49:06.060

Things as well, which are the zoom in and out functions now, if you already know. Yeah. Well, you probably do your road crossing. Now I put in this is where the new paltz office is. this is where we work.

256 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:49:06.060 --> 00:49:09.120

Um, on this road.

257 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:49:09.120 --> 00:49:12.330

I put the road name in it automatically came up.

258 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:49:12.330 --> 00:49:31.650

Now, even if you have, let's say, you knew the house number, or you knew, that was your midpoint, right? You're like, okay, this, this mailbox here on this road. This is the middle of my survey. You can put that in, but what we want you to do is zoom a really close on this road. And this is.

259 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:49:31.650 --> 00:49:37.830

The, the minus button is the zoom out function. The plus is the zoom in function. Um, now you see.

260 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:49:37.830 --> 00:49:44.760

How it kind of went off the road stretch a bit there, what we want you to do, and you can use the left button on your mouse.

261 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:49:44.760 --> 00:49:52.290

Is move that, there we go, so it's right on that road stretch. So let's say this is the midpoint of my road.

262 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:49:52.290 --> 00:50:12.290

And I can point out too, that if you click this little house button up here, it just goes back to that default view. That was how it was in the beginning. If you need that if you're like, wait a 2nd, hold on. Let me redo this. You can, and then this here, I'm not going to push that because you'll see my location. You can actually push that.

263 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:50:12.290 --> 00:50:20.700

And it'll, it'll focus into your location and I believe it also has to do with your personal device. So, if you don't have that enabled, um, like.

264 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:50:20.700 --> 00:50:29.640

Within your computer, then I don't think it'll work, but if you do, then it'll, it'll focus right in. And where you are.

265 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:50:29.640 --> 00:50:47.910

Um, anyway, so now I've used the left button on my mouse to put the pinpoint down in my mid point to me, that looks good. Let me exit all that, to me, this looks great. Um, I can even zoom it a little bit more. This is my midpoint. Cool. I'm gonna all you have to do is click out.

266 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:50:47.910 --> 00:51:00.810

And if you, if you feel like, you want to delete it, you can and restart. It's right here. All it does is delete your pinpoint and it goes back to default. So you can do that. But to me, this looks good. I'm going to exit out.

267 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:51:00.810 --> 00:51:07.440

Right. Um, now we are asking folks, um, this is optional, but encouraged

268 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:51:07.440 --> 00:51:16.770

Uh, we are encouraging more folks to use this feature last year. It was actually a new feature. Um, but, yeah, we would like more folks to enter your start and your end points.

269 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:51:16.770 --> 00:51:20.640

Of the road stretch that you surveyed. Um, so.

270 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:51:20.640 --> 00:51:24.690

I clicked. Yes. And what will happen is that.

271 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:51:24.690 --> 00:51:28.110

It'll actually start with your midpoint.

272 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:51:28.110 --> 00:51:36.870

Um, in the 1st map here, where I'm going to put the starting point of my survey. Uh, so once again, I'm going to enlarge the map.

273 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:51:36.870 --> 00:51:42.630

And I'm going to zoom in and there we go. There's my mid point.

274 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:51:42.630 --> 00:51:46.350

But I know that I started.

275 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:51:46.350 --> 00:51:55.110

Say here and that looks good to me. I can zoom in a little bit more if I want to just to make completely sure.

276 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:51:55.110 --> 00:52:00.570

Uh, good to go, I'm going to go to the end point and.

277 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:52:00.570 --> 00:52:12.300

It's pretty zoomed out and it shouldn't be doing that. So, this is another thing. This is good that we're working through this right now, because I want this to be much more zoomed in when you are doing this.

278 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:52:12.300 --> 00:52:15.960

I'm going to enlarge the map again, just because it's easier.

279 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:52:15.960 --> 00:52:19.170

And here, you'll see, it's on that midpoint.

280 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:52:19.170 --> 00:52:22.560

Oh, no sorry this is the starting point of my location.

281 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:52:22.560 --> 00:52:27.810

And I want to find that end point say here.

282 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:52:27.810 --> 00:52:36.210

Zoom in a little bit more there we go once again. Clicking that - using the left button on your mouse.

283 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:52:36.210 --> 00:52:47.580

Uh, you know, don't be afraid to click around play around with it. Um, you're not gonna make any mistakes by doing that, but just make sure that your, uh, pinpoint is on the road stretch.

284 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:52:47.580 --> 00:52:53.640

Um, and and zoomed in enough where, um, you know, cause look at this if I zoom all the way out right?

285 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:52:53.640 --> 00:52:58.170

And let's say I put my pinpoint there. Well.

286 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:52:58.170 --> 00:53:01.980

Zoom in zoom in. Right? It's not accurate.

287 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:53:01.980 --> 00:53:06.330

So, please try and zoom in as much as you can. Um.

288 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:53:06.330 --> 00:53:09.600

Let me put it back on the road stretch and I feel good about that.

289 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:53:09.600 --> 00:53:14.190

Uh, and, yeah, you just have to click the X in the upper right hand corner out of that map.

290 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:53:14.190 --> 00:53:20.820

Uh, and this is good, and I don't have any additional comments on my crossing locations. So I'm going to head to the next section.

291 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:53:20.820 --> 00:53:27.750

All right, next section is contact information, which is very important for us.

292 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:53:27.750 --> 00:53:47.750

So, if this is your 1st time submitting data for the 2024 migration season, you will fill out a little bit more information than you would if you were returning, you're submitting another data form. So, I'm going to show you that instead of if you were a returning volunteer, submitting another data form and we're, we're, we're in the.

293 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:53:47.750 --> 00:54:07.230

The midst of trying to associate volunteers with this ID, which will, then all you'll have to do is put in your volunteer ID number and then we'll have your contact information. So you won't have to add all that information, which will be awesome. But right now, let's go through what you what, what we want you to add.

294 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:54:07.230 --> 00:54:12.930

Uh, 1st, name last name, your volunteer ID if you have it.

295 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:54:12.930 --> 00:54:16.980

Um, which right now, uh, none of our volunteers do, uh, in the works.

296 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:54:16.980 --> 00:54:19.980

Your phone number email address.

297 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:54:19.980 --> 00:54:25.020

Street address town, city, state, zip code.

298 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:54:25.020 --> 00:54:29.550

All pretty self explanatory and then this whole number of volunteers in your group.

299 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:54:29.550 --> 00:54:40.860

Including yourself remember that and this is also important. I just want to make sure, um, 1 thing that I want to drive home is if you can't get.

300 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:54:40.860 --> 00:54:50.820

The volunteers in your group, like, if you're with a big group, um, then do your best to get last name- first name and last names it's okay if you can't get all their emails.

301 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:54:50.820 --> 00:54:55.860

Um, but, yeah, definitely try for 1st and last name if people aren't if folks aren't.

302 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:54:55.860 --> 00:55:00.210

Comfortable with putting their last name. Maybe just the initial.

303 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:55:00.210 --> 00:55:11.460

Um, and, you know, uh, if you can get their email address, that'd be great. So we can follow up and but if not then yeah, the, the, uh, initial of their last name would be great just because we have.

304 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:55:11.460 --> 00:55:19.380

So many volunteers and in our database. So if you put Paula and we have another paula, how do I know that That's not.

305 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:55:19.380 --> 00:55:30.900

That Paula, or a returning volunteer what? If it's a new volunteer? So we really want to be able to identify our unique volunteers. The individuals for our project.

306 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:55:30.900 --> 00:55:34.500

Um, so, yes, pretty self explanatory there.

307 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:55:34.500 --> 00:55:42.840

Have you intended an in person or virtual and mercy volunteer training, or watched our 5 training modules on YouTube? Um.

308 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:55:42.840 --> 00:55:46.260

You can choose all that you've you've gone to, or attended.

309 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:55:46.260 --> 00:55:49.320

And then are you volunteering with an AM&RC partner.

310 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:55:52.920 --> 00:56:02.160

Next is amphibian information uh, very important. Right. Um, so even if you did, didn't see anything, please still.

311 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:56:08.310 --> 00:56:20.040

submit data. So, I'm going to say that I did see amphibians on this night. So, 1st, you will want to submit any of your salamander observations. Um, you will most likely only need to click on the 1st header.

312 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:56:20.040 --> 00:56:31.290

As these are the species that are most commonly encountered during a migration night, if you need a refresher on what the species look like, you can always use our amphibian identification guide.

313 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:56:31.290 --> 00:56:42.450

Um, which I'll go back, uh, is actually if you click yes, it's right here, it'll come up a link and you can click that and have it as you're entering your species.

314 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:56:42.450 --> 00:56:52.620

Um, but also under each species, um, we have a link that takes you to a page where you can see photos and descriptions.

315 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:56:52.620 --> 00:56:57.780

So, I put that I saw 20 live spotted salamanders.

316 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:56:57.780 --> 00:57:02.940

Uh, 1 dead spotted salamander, um, and you know what, I.

317 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:57:02.940 --> 00:57:10.020

Saw a, I saw 4 four toed salamanders, which was exciting for me. Um, so.

318 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:57:10.020 --> 00:57:20.010

What's going to happen here and I don't need to click on any of the other less commonly encountered or unknown or other cause I didn't see any of those. Um, but just know that they are there.

319 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:57:20.010 --> 00:57:27.030

Um, and what's going to happen now, is it's going to ask me, um, specifically.

320 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:57:27.030 --> 00:57:30.120

Uh, did I see a four toed Salamander.

321 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:57:30.120 --> 00:57:34.290

Um, and, uh, this is just because.

322 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:57:34.290 --> 00:57:42.390

You know, we want to we want to make sure that you did see it. Right? And Laura mentioned earlier that we were wanting you to take photos of each, um.

323 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:57:42.390 --> 00:57:58.770

Each of the species that you saw, and because this does get commonly confused with the red back Salamander and I'll go over. Actually a couple ways is how you can kind of differentiate the two. We are going to ask folks to send in photos of four toed salamanders.

324 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:57:58.770 --> 00:58:10.050

So, you'll see, here, there will be a place where you can upload a photo and I, it's very easy. You can either, um.

325 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:58:10.050 --> 00:58:14.250

I'll show you when I delete this, delete the file.

326 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:58:14.250 --> 00:58:18.540

Um, and it'll come up drop image here, or you select an image um.

327 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:58:18.540 --> 00:58:22.560

So, basically you can drag and drop from your folder locations.

328 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:58:22.560 --> 00:58:42.560

Uh, this, I'm using a photo that Laura took of a four toed, a great photo. Um, and basically it's just letting me drag and drop or drag and drop, uh, the photo right into here. And you'll see that when I do that, it automatically changes, um, the formatting of it. So, it's because my last name, my 1st initial, the date.

329 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:58:42.560 --> 00:58:48.570

Uh, the county and what it is, um, which is great, so try not to, uh, you can rename them.

330 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:58:48.570 --> 00:59:02.700

Um, but try not to, I mean, if you see anything wrong, then, you know, let us know, but it should be correct to what you've already added so far within the survey. Um, so good to me and, you know, we have these kind of, um.

331 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:59:02.700 --> 00:59:08.880

Additional identification information, um.

332 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:59:08.880 --> 00:59:27.600

What you want to call them? I'm losing the word for this, but it's basically you can walk through this. It gives you kind of another way to go through and be, like, didn't really see a four toed salamander. Um, which I think is a great way to really confirm. And really drive home for folks. If you saw that species.

333 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:59:27.600 --> 00:59:30.780

So, let's head into the next section.

334 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:59:30.780 --> 00:59:35.550

Which is the same section that for frogs and toads.

335 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:59:35.550 --> 00:59:49.740

Um, but it looks the same, it's the same kind of format. Um, like I mentioned with the salamanders, you'll probably only need to click on that. 1st, dropdown. Um, the most common, you know, common species that you encounter on a migration night.

336 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:59:49.740 --> 00:59:55.500

Um, but I actually didn't see any frogs and toads this night. So I'm going to skip this section altogether.

337 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

00:59:55.500 --> 01:00:17.660

So you are now, an amphibian crossing guard we have a question here and it tallies how many live amphibians you saw total, and all of those that you observed. How many did you - approximately how many did you and your group have across the road? So let's say that 22 of them needed help across the road.

338 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:00:17.660 --> 01:00:34.560

Well, maybe 2 of the four toed salamanders were on their way they knew where they are going I didn't need to help them. So I'm going to say 22 salamander or sorry yeah, 22 salamanders here. Um, and if you're able please indicate the general compass direction. Um, so I use my phone for this. There's a, uh, a on.

339 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:00:34.560 --> 01:00:40.770

iphone's, I'm not sure about other phones. Um, but it does have like, a little compass that you can use.

340 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:00:40.770 --> 01:00:45.210

Pretty easy, but if a compass, you can also use that. Of course. Um, and.

341 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:00:45.210 --> 01:00:48.420

We're also happy to receive any other interesting photos.

342 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:00:48.420 --> 01:00:53.760

Um, so, uh, we have a limit of 5 just because, um, I can get.

343 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:00:53.760 --> 01:01:05.490

They might get glitchy if there's more than 5 photos submitted in this area. So we want to reduce that. But if you have more than 5 photos, and you want to share them with us, feel free to email us and our.

344 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:01:05.490 --> 01:01:23.610

Program or, sorry yeah, our project email, which we'll probably have at the end of our slides so you can jot that down. Yeah, we love seeing photos of volunteers in their safety gear. Remember so safety vests um.

345 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:01:23.610 --> 01:01:37.080

And the last page here is actually a recap of your data entry, which is an amazing new kind of feature, um, that we added last year.

346 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:01:37.080 --> 01:01:41.550

Um, so please make sure to go through this and, uh.

347 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:01:41.550 --> 01:01:51.090

You know, in as much detail as you can, um, really, really look at it. Um, and if you have if you're, like, wait a 2nd, I, you know, I didn't see.

348 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:01:51.090 --> 01:02:04.140

24 live, salamanders I only saw 2 or whatever. You can go back. You just have to click the back button in- on each page and you should have no issues with going back through your survey.

349 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:02:04.140 --> 01:02:12.750

Um, but, yeah, obviously, let me know if something doesn't look right and you weren't able to go back in your survey. Um, but this all looks.

350 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:02:12.750 --> 01:02:22.530

Great to me, I checked it all out and the last slide is just a thank you or sorry the last page is a thank you. Um, but please make sure um.

351 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:02:22.530 --> 01:02:38.790

To submit your data for, and there will actually be if you do have, uh, if you surveyed more than 1 road crossing or road stretch sorry, then there will be an option where you can submit another data form right after you submit. So.

352 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:02:38.790 --> 01:02:48.289

All right, we're going to move away from survey123 but if there's any questions, Laura Madeline, that maybe.

353 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:02:48.289 --> 01:02:58.528

Relate to any of the survey123. thanks, Emma. There's a few questions, but, um, they're not specific to survey123 necessarily. So I'm going to hold off.

354 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:02:58.528 --> 01:03:01.980

And we can get to these, maybe during the Q and a time.

355 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:03:01.980 --> 01:03:05.610

Sure, yeah, sure. Um, all right Thank you.

356 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:03:05.610 --> 01:03:09.690

Okay, I'll switch gears over to.

357 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:03:09.690 --> 01:03:13.110

the other Presentation now.

358 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:03:13.110 --> 01:03:20.970

Uh, and we're going to go over commonly so commonly asked questions. Um, I'm going to start out the section um.

359 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:03:20.970 --> 01:03:32.790

With reviewing, some vernal pool, breeding species that are commonly confused with other species, and then pass the mic over to Laura, who will review some, um, additional questions that folks have.

360 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:03:32.790 --> 01:03:54.560

So, if you watched module 5 of our YouTube training series, you would have seen that the red back, salamander can often get confused with the four toed salamander and vice versa. However, the lead back phase of the red back salamander can also get confused for a Jefferson blue spotted salamander complex.

361 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:03:54.560 --> 01:04:00.780

Let's go over some ways, uh, that you could use to feel more confident in your identifications.

362 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:04:04.380 --> 01:04:24.380

So here are various adorable photos of the Jefferson blues, but a salamander complex. And, as I said, the salamander can be confused with the lead back phase of the right back. Salamander. Um, kind of due to that, like grey ish base color, um, with the light flecking across the sides of the body.

363 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:04:24.380 --> 01:04:44.380

But, you know, the word that comes to mind, when I look at these photos, or if I think about a Jefferson blue spotted salamander is robust, they are definitely robust in size. The total length of a Jefferson blue spotted can be up to 7.5 inches. But even on their.

364 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:04:44.380 --> 01:05:05.660

Smaller size, they are almost at the maximum size of what a red back salamander can grow to be and you'll see in the next slide it probably will be more apparent when I show a redback Salamander. Um, so really try and focus on that robust- the robust body wide head and they're long toes, which are.

365 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:05:05.660 --> 01:05:10.170

Shown well, and pretty much all of these photos, um, they're kind of.

366 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:05:10.170 --> 01:05:13.350

Like finger like, you know.

367 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:05:13.350 --> 01:05:32.100

So, here we have the side by side, so this is the northern red back salamander in the lead phase. So they have these 2 main color morphs that we're seeing that our volunteers are seeing, which is the red back and the lead back phase. Um.

368 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:05:32.100 --> 01:05:38.130

Well, you do say that there is a similar coloration here, but really look at that body shape.

369 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:05:38.130 --> 01:05:49.680

Um, you know, slender is what comes to mind when I think about a northern red back salamander. Um, and, yeah, like I mentioned, they can only reach out to about 4 inches in their total length.

370 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:05:49.680 --> 01:05:53.970

But, yeah, definitely look at that robust versus slender. Right?

371 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:05:53.970 --> 01:06:11.880

All right, and here we have that red back phase of the, or both of these. Oh, I did mention that that both of these customers have been seen by volunteers. So it's good to get yourself acquainted with both collaborations. Um, and.

372 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:06:11.880 --> 01:06:16.920

This coloration, this color morph can be confused with the four toed salamander .

373 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:06:16.920 --> 01:06:21.180

Which looks like this.

374 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:06:21.180 --> 01:06:29.820

So, on the right side is our four toed salamander and on the left side is the red back Salamander uh.

375 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:06:29.820 --> 01:06:32.970

Both salamanders are quite slender in appearance.

376 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:06:32.970 --> 01:06:39.840

Um, the red back salamander has a very distinct brick red orange Stripe on its back

377 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:06:39.840 --> 01:06:56.100

And the four toed can have a very similar orange coloration as you as you see in the upper photo there of the four toed. however, a big giveaway and Laura already mentioned, this is the belly shown in the lower right. Photo here.

378 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:06:56.100 --> 01:07:16.100

Which is white with those black spots and the red back salamander has what folks are call a salt and pepper belly. It's very gray ish in coloration. So if you put a tablespoon of salt and tablespoon of pepper together, you mix it all around. That's kind of what the red back salamanders belly looks like. So.

379 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:07:16.100 --> 01:07:33.840

It's definitely different from the four toed salamander and the four toed salamander also has this constriction at the base of the tail, um, which the red back salamander does not have. Um, and Laura also mentioned this, they have four toes on their hind feet, which the red back salamander does not have. Um, but.

380 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:07:33.840 --> 01:07:38.062

Really hard to see that when you're out on a rainy, dark night. Um, so.

381 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:07:38.062 --> 01:07:41.100

Definitely go with that belly. Uh, if you can.

382 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:07:41.100 --> 01:07:51.030

Yeah, do you mind if I chime in for a second of course yeah, I just wanted to point out this. 1st slide is great to have up.

383 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:07:51.030 --> 01:07:55.800

Um, the other reason we're putting putting these out, um.

384 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:07:55.800 --> 01:08:04.590

Is with the case of the red back and the four toed salamander. the red back salamander as you would have, I think learned in the YouTube module.

385 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:08:04.590 --> 01:08:12.930

It is like the most ubiquitous terrestrial salamander in our forest. We expect to see them, you know, whenever we roll over a log.

386 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:08:12.930 --> 01:08:22.440

Pull up a rock there's a red back salamander. four toed Salamander on the other. Extreme is a species of concern in New York state.

387 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:08:22.440 --> 01:08:36.960

Um, and so the fact that volunteers see them during a migration is very exciting and so we want to make sure the volunteers understand the difference and aren't misdiagnosing- misidentifying red back salamanders as four toed, or vice versa.

388 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:08:36.960 --> 01:08:42.150

So, you know, nailing this, this characteristic, uh, difference is important and.

389 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:08:42.150 --> 01:09:02.150

I'll also point out that neither of these species would be considered an obligate vernal pool breeder. However, four toed Salamander can sometimes breed in sphagnum moss near pools. So they may be using pools whereas red back salamander breeds completely terrestrially. So, even ecologically, they're very different in terms of the niche that they.

390 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:09:02.150 --> 01:09:10.558

They fill, but they are sometimes seen. redbacks are sometimes seeing during migrations. We're seeing more and more four toed now that people.

391 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:09:10.558 --> 01:09:18.270

Know, what they are and what to look for so I just wanted to point that out Emma thank you for letting me dive in. Yeah, of course. Thanks, Laura. Um.

392 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:09:18.270 --> 01:09:31.800

Right. So let's just go over some takeaways before we head into some commonly confused frog species. Um, so, yeah, Jefferson blue spotted salamander

393 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:09:31.800 --> 01:09:51.800

Remember a large, robust body, um, exceedingly long toes. wide head. northern redback salamander has these 2 different color morphs, but they are the same species and we're not asking you to write that out in your data form either. We just want to know if it's a red back salamander . Um, but, you know, good to know because we want you to be able to.

394 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:09:51.800 --> 01:09:55.500

Make sure that you're putting down the right species right? So.

395 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:09:55.500 --> 01:10:12.840

Remember the northern red back salamanders is slender, kind of small petite body, and the four toed salamander, um, slender petite body, but it has that bright white belly with the black spots on it. While the red back salamander has that.

396 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:10:12.840 --> 01:10:32.040

Salt and pepper belly right. Um, and then they have this kind of constriction at the base of the tail. But we also go into, um, you know, a couple more, uh, ways to differentiate the 2 in our, uh, module 5 of our training, um, on YouTube as well if you want to get, uh, you know, more in depth with that as well.

397 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:10:32.040 --> 01:10:37.350

Right. So moving on to uh-

398 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:10:37.350 --> 01:10:57.350

Some other confusing, uh, identifications so the wood frog can be confused for the spring peeper sometimes and then I'll go into the spring peeper, which can be confused with the gray tree frog. Um, but, yeah, it's really important. This is our, uh, only vernal pool, breeding, uh, species.

399 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:10:57.350 --> 01:11:07.290

or obligate species of frogs and toads so it's really important that you get this down for identification. Um, the wood frog has this really.

400 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:11:07.290 --> 01:11:24.240

The mask is what we call a raccoon mask, right? Sometimes it's not as apparent, though. Um, so it's good as well to know that they have these distinct ridges that run down their back, but also this bright, white, upper lip.

401 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:11:24.240 --> 01:11:40.440

Um, so, if that kind of, uh, dark around the eyes, if it's not as a parent, and you're kind of, like, is it would frog then definitely look, um, for those dorsal lateral ridges and then that bright white, upper lip is also a big giveaway.

402 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:11:40.440 --> 01:11:46.290

And, yeah, wood frog vs. grey tree frog vs. spring peeper

403 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:11:46.290 --> 01:11:54.480

Um, Here's kind of the side by sides. Uh, we have, uh, the spring peeper, so look at the size of that spring peeper, right? It's.

404 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:11:54.480 --> 01:12:10.950

It's 0.5 to 1.5 inches you can't tell in this picture. It looks like it's big, but just know that it's quite small. Um, they can reach up to 1.5 inches- like. That's that's that's pretty small. And when you see them out out about, it can be quite alarming to be like.

405 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:12:10.950 --> 01:12:14.880

I, you know, I can't believe that -that's a frog. Um.

406 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:12:14.880 --> 01:12:25.650

And they have this very distinct X on the back. Sometimes it's not as apparent. So, um, you know, look for some other things, such as toe pads.

407 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:12:25.650 --> 01:12:32.640

Um, the size once again, that is a big giveaway of a spring peeper um, compared to the wood frog.

408 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:12:32.640 --> 01:12:52.640

Which can reach up to 3 inches long. Yeah. And just make sure wood frog mask. bright white, upper lip and the dorsal lateral ridges that spring peeper much smaller X on the back has these toe pads and is much smaller. And then the gray tree frog compared to the spring peeper, the grey tree frog.

409 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:12:52.640 --> 01:13:13.580

And, you know, kind of be similar size, but they're definitely on the larger scale of a spring peeper. Um, but they do have this giveaway of this yellowish thigh area, or groin area. So, you can tell if it's a tree frog -gray tree frog, um, versus the spring peeper, because of that, the spring peeper does not have that. Um, they have.

410 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:13:13.580 --> 01:13:19.920

Have these dark splotches on their back and not that distinctive X and then they also have the toe pads.

411 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:13:19.920 --> 01:13:35.640

Um, but, uh, yeah, so I would definitely make sure you look at that X in the back for the spring peeper, and then the yellowish groin area for the grey tree frog. Um, but then, yeah, just look at that back coloration as well. You can tell that there is a difference there. Um.

412 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:13:35.640 --> 01:13:43.092

Right. So I think I'm going to pass it back to Laura to go over some other.

413 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:13:43.092 --> 01:13:48.090

Commonly asked questions.

414 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:13:48.090 --> 01:13:54.780

Great, thank you. Emma. Um, let's see. Pull up my slides.

415 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:13:54.780 --> 01:13:58.800

Okay, uh, hopefully you are seeing.

416 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:13:58.800 --> 01:14:01.920

The slide, uh.

417 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:14:01.920 --> 01:14:08.160

So, I'm going to start with a question we get frequently, which is, I don't know where there's a crossing.

418 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:14:08.160 --> 01:14:28.160

Where can I go to survey? And I just wanted to give a little shout out to Cara gentry from Wallkill Valley land trust for taking 1 of the most incredible migration photos. Ever. I feel like this little wood frog looks so thin. And my guess.

419 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:14:28.160 --> 01:14:36.330

Is it again has been frozen all winter and not active and not eating and decided during the migration, uh, to have a snack uh.

420 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:14:36.330 --> 01:14:56.330

Although it's really probably thinking about breeding it's probably also hungry, but I love that this picture captures wood frog having an earthworm while moving across the road. Um, but in any case, where do you

go to survey? So, there's a couple of answers to this 1. um, 1 is we do have a YouTube module on how do you use.

421 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:14:56.330 --> 01:15:12.060

Different map resources as well as studies that have been done, maybe by your municipality, or by regional organization that might have really detailed wetland and forest maps. Because again, these are all species that live in the forest. You know.

422 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:15:12.060 --> 01:15:15.930

The migration, you'll, they'll certainly be species that are out in about.

423 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:15:15.930 --> 01:15:21.000

That aren't part of this core vernal pool breeding group Um.

424 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:15:21.000 --> 01:15:41.000

-we care about them, but we're really focusing on vernal pool breeders. So, what we want you to do is to find roads that are fragmenting or bisecting a forested area that has small wetlands in it. If you happen to know where there's vernal pools. That's perfect. We don't know. There's not like a great map of vernal pools. We don't always know where they are.

425 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:15:41.000 --> 01:16:01.310

1 thing you can do is listen for the chorus of wood frogs, which are the males singing from Vernal pools to lure in the females with their kind of quacking sound. And if you hear that sound at night on a rainy evening, or even even if you're just driving around, trying to find.

426 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:16:01.310 --> 01:16:21.310

vernal pools, you might hear them singing, you know, on a dry day. But that will tip off to you where there's good habitat. Because that would be a good representative of where there's a pool habitat in close proximity to forest habitat. Um, you also can ask around and see if any of your.

427 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:16:21.310 --> 01:16:28.410

neighbors or friends, usually if you start talking about this incredible migration phenomenon.

428 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:16:28.410 --> 01:16:40.830

That can help. people will respond. Oh, yeah, I know where there's a great crossing location. I've seen that. I've seen where there's hundreds of salamanders crossing the road.

429 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:16:40.830 --> 01:16:45.540

We also, I think there was a question just popped up about having a map.

430 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:16:45.540 --> 01:17:03.780

We don't actually share a public map of known crossing locations because of the threat of collection of these very charismatic and beautiful species by those who are maybe participating in the illegal selling and trade of amphibians. Um.

431 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:17:03.780 --> 01:17:17.100

You might have seen there was just an article about the DEC busting somebody with an endangered Tiger salamander from Long Island just recently. So, this is not something. This is something we take. Seriously.

432 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:17:17.100 --> 01:17:37.100

However, I'm going to share a little bit some of our initial kind of data analysis we've been doing in collaboration with Elise Edwards, who's working on a PhD at Cornell to be able to start consolidating and sharing location data in a way. That is not so specific that will be revealing kind of.

433 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:17:37.100 --> 01:17:54.900

A vulnerable location, and also we are working with our partners, which I'm going to share a slide now of our partners who are organizing volunteers locally. This, this project is challenging, because we're covering a giant geographic area. I showed you that map in the beginning of the Hudson Valley.

434 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:17:54.900 --> 01:18:01.620

Or the estuary watershed, and we're a small team that work on this project.

435 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:18:01.620 --> 01:18:21.620

And it's difficult, we can't be out everywhere on a migration night. However, our partners are really amazing in helping organize volunteers locally. And so I've put some logos of some of our partners who were helping, and I'm sharing with them some data to help them connect volunteers. With others to go out at certain locations so.

436 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:18:21.620 --> 01:18:36.270

Kind of moving from south to North across the watershed starting out at the southern end of the watershed in Westchester County. The towns of Bedford and Pound Ridge their conservation boards are actually organizing volunteers locally.

437 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:18:36.270 --> 01:18:45.300

Teatown Lake Reservation is also for a number of years have been organizing volunteers locally, and they're holding an in person training next week.

438 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:18:45.300 --> 01:18:53.610

Uh, we also have, as I mentioned, Hudson Highlands Land Trust in Putnam County, helping organize volunteers and hopefully watching our training tonight.

439 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:18:53.610 --> 01:19:01.800

We also in the mid Hudson in Ulster County have Wallkill Valley Land Trust who will be joining us for our in person training in New Paltz on Saturday.

440 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:19:01.800 --> 01:19:21.800

And in Dutchess County, Bard College has been organizing students. Vassar College is organizing students, and also members of the community and hopefully also watching us tonight with some, some volunteers, and also in Red Hook and Rhinebeck we have Climate Smart Rhinebeck.

441 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:19:21.800 --> 01:19:35.640

And the sawkill watershed community organizing volunteers up in that part of dutchess county further north, the town of ancram conservation advisory council is just getting started and trying out organizing volunteers.

442 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:19:35.640 --> 01:19:55.640

I just saw Kim chime in from rensselaer plateau alliance for participants, interested in participating up on the plateau in Rensselaer County, and other parts of the county. And then in Albany county we have a volunteer who has been participating in AM&RC for the last few years. And he is offered to organize folks.

443 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:19:55.640 --> 01:20:03.930

In the northern part of the county, so if you're in any of these areas, you can email Madeline, Emma or myself.

444 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:20:03.930 --> 01:20:12.330

We'll try to connect you to the partner, or you can if you have a contact, you can reach out to them yourself and they might be sharing some of their contact info.

445 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:20:12.330 --> 01:20:18.900

In the chat, which we can also copy and paste into the chat Emma Madeline.

446 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:20:18.900 --> 01:20:37.590

So that's 1 way to find out where there's a crossing, but I also want to just remind you that we're really interested in finding where crossings are that we don't know about. So, there is the benefit of you getting out and doing a little bit of what we call a windshield survey, which we describe in a handbook and in a module of going out and trying to find new locations.

447 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:20:37.590 --> 01:20:47.310

Okay, the other question we also hear frequently is how many volunteers should survey at a single location. So hopefully madeline drove home. The, the.

448 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:20:47.310 --> 01:20:54.360

Very, um, seriousness and the importance of being safe and so we don't want 1 person going out alone, ever.

449 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:20:54.360 --> 01:21:13.050

2 peoples great 3, peoples, even better. Um, because you again, you want to be thinking about somebody collecting data, you want to think about somebody actually helping cross the amphibians and yelling out the tallies of what they're seeing to the recorder somebody else paying attention to the traffic is important because it is very easy to get.

450 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:21:13.050 --> 01:21:24.390

Caught up in the amphibians and not being paying attention to cars. So we don't want you to flag down the cars or obstruct traffic.

451 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:21:24.390 --> 01:21:28.170

However, we do want you to keep track of cars for your safety.

452 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:21:28.170 --> 01:21:38.940

We did, we were interested in thinking about, you know, how long should a volunteer go out from kind of a scientific perspective so, Elise did a little bit of analysis to look at.

453 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:21:38.940 --> 01:21:44.760

Hours of volunteers on surveys to get a sense of, at what point does.

454 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:21:44.760 --> 01:21:54.420

The returns start, start diminishing in terms of the number of hours you're out and what we found was that at around 5 to 6 hours per survey.

455 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:21:54.420 --> 01:22:07.560

Effort kind of dwindled, so it was optimized about 5 to 6 hours. So when we say that, we don't mean you as an individual need to go out for 5 to 6 hours, unless you're by yourself. That's when we would it would be the ideal sweet spot.

456 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:22:07.560 --> 01:22:27.560

We were talking about volunteer hours so if Emma Madeline, and I go out the 3 of us, go out for 2 hours and that's 6 hours of volunteer time at a particular site. And so we kind of do the math, the number of volunteers times, the number of hours equals volunteer hours. So if you have 5 people out for 1 hour, you should.

457 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:22:27.560 --> 01:22:32.790

To be seeing, just as much as 1 person out for 6 hours. That's what this analysis kind of indicated.

458 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:22:32.790 --> 01:22:42.240

Again, it's up to you to go out for as little or as long as you'd like and as long as you're comfortable but again that 5 to 6 hours per survey was the sweet spot.

459 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:22:42.240 --> 01:22:59.430

Volunteer hours, some other questions we get asked is what, if you live outside the estuary- watershed, and we have had lots of volunteers growing number each year, send me data from outside of the watershed. And while I don't have.

460 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:22:59.430 --> 01:23:15.120

A partner network, I'm not working outside the Hudson Valley myself. I will send your data to the DEC staff at your appropriate regional headquarters. So they'll have those data. And we also, of course, are keeping them in our database.

461 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:23:15.120 --> 01:23:33.450

Another question we get asked frequently, is, is it okay to handle amphibians and what about gloves and what I'll share about that is that it's understood that nitrile gloves are. Okay if you prefer to do that to actually, um.

462 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:23:33.450 --> 01:23:42.840

Where gloves while you're out, you know, no powdery gloves that would transfer over to the skin of the volunteers and also just remind you that.

463 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:23:42.840 --> 01:23:56.340

When you're out using your hands is fine as long as they're completely cleaned to watch them off, it's open water before you leave your house while you're out in the rain, just get them wet from the rainwater and and that should be fine.

464 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:23:56.340 --> 01:24:09.840

But do you keep in mind that some frogs and toads produce some irritating toxins so you don't want to be handling a toad and then, like, rubbing your contact lenses or your face, or touching your mouth? Um, kind of think about.

465 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:24:09.840 --> 01:24:21.630

The rules, we've all follow during coven about keeping your hands away from your face. That's a good thing to do during a migration. If you're switching between sites, you might want to just kind of, you know.

466 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:24:21.630 --> 01:24:25.500

rub your hands together with the water, uh, and kind of.

467 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:24:25.500 --> 01:24:45.500

Clean them off in that way or you can just go home and wash your hands with soap and water. If you're going to a very different site later in the evening, and then again runs with rain water when you get to the site, um, dont be eating and handling amphibians and then going back to your car eating more. That's all bad. So, keep your hands clean and limit touching anything else while you're handling amphibians.

468 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:24:45.500 --> 01:24:52.080

The other thing I wanted to remind everybody, and this gets back at the, um.

469 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:24:52.080 --> 01:24:55.440

Uh, 2 issues, uh.

470 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:24:55.440 --> 01:25:11.130

And this is going into social media, I was not an Instagram user until I started this project and decided Instagram was a great way for volunteers across the Hudson Valley to virtually stay connected to each other. Right? Because it's really hard to know.

471 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:25:11.130 --> 01:25:26.430

If you're Kim up on Rensselaer plateau, uh, what Camilla is seeing down in Putnam County, for example, and maybe, um, uh, you know, on the same night, it's a way to know who's seeing what and so what I like to encourage volunteers to do if you use social media.

472 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:25:26.430 --> 01:25:46.430

Is to go on Instagram and share some photos of what you're seeing and say I'm in Rosendale. It's 42 degrees Fahrenheit. It's raining lightly and I'm seeing lots of spotted salamanders and put that out in real time. So that other people in other parts of our watershed can know that there's activity and the best way for people to find.

473 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:25:46.430 --> 01:25:52.620

That is to use the #amphibianmigrationHV for Hudson Valley.

474 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:25:52.620 --> 01:26:04.200

You know, use that in your in your post, and then you can also search for that hashtag and you can see photos from the past and you can also see what's going on that evening.

475 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:26:04.200 --> 01:26:21.330

But what I would warn against is revealing specific location, uh, road names, for example, because again, we just want to avoid making it easy for people with bad intentions to be able to get out and collect amphibians. That might be vulnerable to collection.

476 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:26:21.330 --> 01:26:31.800

Okay, so now, let's see, I'm going to maybe stop sharing for a moment and look at the Q and a box. Um.

477 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:26:31.800 --> 01:26:42.870

Uh, for a little bit, and then we'll get back into a few more slides and the presentation. Um, I did see that there were some questions in the chat. So, um.

478 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:26:42.870 --> 01:26:49.770

Uh, I will just, um, let's see, I've already answered 1. um, okay.

479 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:26:49.770 --> 01:27:09.770

Uh, George Hi, George asked about, if amphibian is heading in a poor direction, where there's poor habitat, should we redirect that critter. So, I don't like to think of any of the amphibians as being misguided. You know, a lot of them return almost all to their natal pools. So they're actually going to the pool where they.

480 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:27:09.770 --> 01:27:12.900

emerged themselves so this is like, potentially.

481 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:27:12.900 --> 01:27:27.780

Hundreds of years of history, for some of these local populations, if not longer and in general with any wildlife on roads, um, we like to just think that they know where they're going and we don't like to assume anything different from that. So, um.

482 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:27:27.780 --> 01:27:34.410

So, just move them in the direction they're going. There was also a question about if there isn't a lot of traffic.

483 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:27:34.410 --> 01:27:41.880

Do you need to move them across the road and so we're going to let you be the judge of that if it feels like it's a road with no movement of cars.

484 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:27:41.880 --> 01:27:56.430

Then, you know, you want to just kind of let them the amphibians move. That's fine. And hopefully, if you're collecting data, you can note who's moving across the road and it's fine if you don't want to handle them and move them across. Um.

485 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:27:56.430 --> 01:28:00.750

Let's see, uh, great. You got Kim there? Uh.

486 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:28:00.750 --> 01:28:22.380

Oh, in terms of leaving a particular road and possibly going to another location again, because we don't know the areas local areas as well as you. Do we leave it up to you. You're welcome to stay at one location. If you feel like you're making a difference. And you're, you're I know some volunteers will tell us.

487 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:28:22.380 --> 01:28:32.610

There were so many activities, so many amphibians moving. We wish there were more people there and so we're going to try to connect people to those locations. But if that's the case, then you feel like you're making a difference in not in preventing mortality.

488 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:28:32.610 --> 01:28:40.470

Then you can just stay at that location. Um, if you, uh, have been there, maybe for an hour and there's not a, you know, you've kind of captured.

489 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:28:40.470 --> 01:28:55.710

The amount of activity for that location um, and you want to see if there's in a better spot you're welcome to do that too, as long as you're telling us to start and end time and the location you're at. That's really all, we need to kind of help interpret what, um, what you're seeing, but, you know.

490 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:28:55.710 --> 01:29:01.800

There's like the 2 elements in this project, right? There is the immediate and I'm going to talk about this actually, but there's the immediate benefit.

491 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:29:01.800 --> 01:29:13.650

Of preventing mortality, there's a longer term benefit of us learning about the migration learning about how the integrations occurring across our geographic area. So.

492 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:29:13.650 --> 01:29:20.670

This, I'll just preface, you know, the next part of the presentation is a little bit about what we're doing with the data.

493 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:29:20.670 --> 01:29:25.350

And I'm sure many of you heard of the expression citizen science.

494 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:29:25.350 --> 01:29:33.270

Usually, those are projects that have a specific research question. Right? So you might have a research project.

495 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:29:33.270 --> 01:29:53.270

And there's recognition by the practitioner that it would really benefit from a lot of data collection by volunteers in this situation. It's a little bit different that we didn't go into this project with a specific research question. I already shared with you the goals of the project. And it wasn't specifically about research, so we're not telling people to go out for X number of minutes for X. number of distance

496 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:29:53.270 --> 01:30:05.940

Those those are a little bit left up to the judgment of the volunteer at the site, in terms of their own personal safety, what they're seeing. And so hopefully that answer is that question and.

497 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:30:05.940 --> 01:30:10.830

Uh, let's see, uh, there was also a question if we're requiring photos.

498 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:30:10.830 --> 01:30:17.940

Of each species, every time you go out, so say, you go out for 3 different evening migrations.

499 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:30:17.940 --> 01:30:21.750

Do we want you to take photos every night? Um, so.

500 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:30:21.750 --> 01:30:25.620

Of course, if you're a long term.

501 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:30:25.620 --> 01:30:39.120

Volunteer, and we've recognized that you've known, you've learned the identifications, we'll take that into account however, as the database grows and the level participation grows and you could nod if I'm right. I think last year we had 340 volunteers approximately.

502 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:30:39.120 --> 01:30:46.680

Something along those lines 300 or something so it's hard at some point it's going to get to a point where we're not going to necessarily know. Oh, yeah.

503 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:30:46.680 --> 01:30:58.710

That's John Smith, he's been volunteering for 10 years. We know he knows his stuff, you know, so having the photos, even if they're just for our files so we can go to them and say.

504 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:30:58.710 --> 01:31:02.310

This is unusual. This person identified a.

505 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:31:02.310 --> 01:31:07.200

fowler's told which has only been seen a couple times in the 15 years of the project.

506 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:31:07.200 --> 01:31:16.680

We want to be able to go say, let's look at their survey123 upload and yes. Okay. They did they did photograph a fowlers toad we can say. That's correct. And.

507 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:31:16.680 --> 01:31:28.470

Um, it's really has to do with the volume of data we're getting in. So it is helpful. If you send a representative photo of each pieces, you see each night, um, as much as you can, uh, that helps us because honestly this past year.

508 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:31:28.470 --> 01:31:36.240

We weren't going back and saying, okay, Madeline McDonald said she saw a four toed salamander on March 22nd, but she has no photo.

509 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:31:36.240 --> 01:31:53.070

Okay, but March 3rd, she did have a photo so we're gonna say that we think she knows what a four toed salamander is, but we don't like that gray area. We want a black and white. You knew it you, you validated your observation with a photo. So, hopefully, hopefully, that helps explain why we're asking the photos.

510 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:31:53.070 --> 01:31:56.729

Madeline or Emma is there anything you want to point out

511 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:31:56.729 --> 01:32:00.419

any other Q and A's here.

512 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:32:00.419 --> 01:32:05.579

Oh, what's the best way to pick them up? Great question and look.

513 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:32:05.579 --> 01:32:25.579

I have a little can you see my little salamander that somebody made me at a Playdough, so you don't want to pick up salamanders by their toes I mean, well, by their tail, sorry. Or their toes is actually long toed. Jefferson salamander might be jumping. Anyway, you want to if possible.

514 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:32:25.579 --> 01:32:35.039

Pick them up in your in your hand, and kind of loosely cover them with your other hand, and move them across the road and just gently put them on the ground and let them be on their way.

515 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:32:35.039 --> 01:32:47.249

I will say I'm going to show you my standard, uh, a prop here. If if, if I had something large like this, um, uh, C sponge.

516 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:32:47.249 --> 01:32:54.959

You might have a big American toad that you're not comfortable with picking up. What I'll do is I'll use my laminated ID sheet.

517 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:32:54.959 --> 01:33:16.249

So, to kind of scoot under the code and then put my hand over it and move it across like that. And then, uh, and then let it go on to the side of the road because they are cold. And some of them have literally been probably active for less than 24 hours of the season. Right? They've just defrosted. They've just started moving about again and they're not going to be really active.

518 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:33:16.249 --> 01:33:24.269

However, if you have a really active frog or code, you might be able to kind of just nudge it from behind and it'll hop across without you having to lift it up.

519 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:33:24.269 --> 01:33:42.299

Okay. Um, okay keep the temperature prediction emails coming. Uh, yeah, that those are gonna be included in, um, the, uh, bulletins that we send out through DEC delivers.

520 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:33:42.299 --> 01:33:48.359

And, uh, I'm going to go out and a limb here and just tell everybody that.

521 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:33:48.359 --> 01:33:53.339

I'm going to ask subscribe all of you who registered tonight.

522 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:33:53.339 --> 01:33:58.229

To avoid any challenges with trying to get yourself to subscribed to DEC delivers.

523 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:33:58.229 --> 01:34:18.229

I'll just tell you, I don't send out a lot. It's really just during this time of year, it'll provide predictions for when migration looks good. It'll give you updates on what people are seeing and will provide a little bit more education. And if you get that, and you're like, I don't really want to read this too much email you can go to the bottom. And I was unsubscribed yourself.

524 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:34:18.229 --> 01:34:21.719

So, that's how we'll keep the predictions going.

525 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:34:21.719 --> 01:34:25.859

Um, and and with that said, I do want to point out.

526 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:34:25.859 --> 01:34:30.659

That the Hudson Valley is a.

527 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:34:30.659 --> 01:34:36.719

You know, the reason why it's so biodiverse is because we have everything from high elevation areas like.

528 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:34:36.719 --> 01:34:41.429

The Catskills, the Hudson islands, the rensselaer plateau to low river valleys.

529 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:34:41.429 --> 01:34:47.909

We have the difference from the northern end of the range to the southern end and the Hudson Valley. So all those.

530 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:34:47.909 --> 01:34:54.269

Factors will factor into who's seeing what and when so I'll always couch.

531 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:34:54.269 --> 01:35:01.619

The prediction with check your local conditions, because sometimes we'll even see rain in 1 town and, like, you know.

532 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:35:01.619 --> 01:35:05.939

50 miles away there was no rain in that town. So, um.

533 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:35:05.939 --> 01:35:13.105

I see some of these questions referred to the to the data analysis So should I maybe.

534 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:35:13.105 --> 01:35:15.403

Into that does that make sense or.

535 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

01:35:15.403 --> 01:35:21.161

Madeline, or are you seeing anything else that I was just going to say? Cool. Sorry.

536 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:35:21.161 --> 01:35:22.321

I understand the question.

537 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:35:22.321 --> 01:35:28.925

I was saying that are left. I think you answer in the next part of your presentation. Okay great. I was just going to say that.

538 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:35:28.925 --> 01:35:34.409

I can follow up with Adrian about the issues that she's having related to survey123

539 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:35:34.409 --> 01:35:41.279

Oh, great, thank you. Okay, let's do that. And then we'll try if there's time again we can get to more Q and a.

540 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:35:41.279 --> 01:35:50.669

All right. Great.

541 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:35:50.669 --> 01:35:59.219

Okay, so yes, I'm going to do a little bit of some stories about the data and, and a little debrief.

542 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:35:59.219 --> 01:36:08.759

Before we wrap up, so I just wanted to go back to where we began with our project goals and just kind of.

543 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:36:08.759 --> 01:36:12.449

Ponder, uh, how are we doing and I'm I.

544 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:36:12.449 --> 01:36:19.649

I'm not going to get enough time tonight to go through all the progress on these different goals, but I did want to just touch on raising awareness.

545 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:36:19.649 --> 01:36:23.789

And also, um, the idea of.

546 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:36:23.789 --> 01:36:29.489

Uh, identifying conservation opportunities and creating a foundation for asking research questions.

547 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:36:29.489 --> 01:36:35.399

So, in terms of raising awareness, I'm really thrilled that our DEC delivers.

548 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:36:35.399 --> 01:36:55.399

Bulletin subscription is now over 2000 people and I know all those 2000. people are not volunteering. And so, what that means is, there's a lot of people interested in this and learning about it and I'm hoping all of you who are on the Webex tonight are going to tell some people about this and we'll just continue to help spread the word.

549 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:36:55.399 --> 01:37:17.209

And, you know, I think if I look back to when I started talking to different audiences about vernal pools, maybe 15 years ago, they were probably not as well known as they are now. And there's so many great programs, uh, different field trips that are organized by different groups. There's, um, uh, you know, a lot of news.

550 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:37:17.209 --> 01:37:23.279

About vernal pool amphibians I feel like more and more people know about it, which is so great. And I'll just say.

551 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:37:23.279 --> 01:37:38.129

Thanks to this project too. We've had coverage on this topic in Smithsonian and the New York Times WNYC, lots of local papers. And so to me, that helps us really hit that. 1st goal of just raising awareness.

552 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:37:38.129 --> 01:37:48.509

But I did want to share a little bit about data analysis. So this is just a fraction of our database to give you a sense of.

553 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:37:48.509 --> 01:37:51.929

What it looks like, and, uh, the amount of.

554 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:37:51.929 --> 01:37:59.399

Data pieces that come from each of your surveys each row. There is a survey and there's a lot of.

555 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:37:59.399 --> 01:38:06.359

Follow up, that's often involved if the data aren't entered correctly into survey 123. so that's why we really gave Emma.

556 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:38:06.359 --> 01:38:13.649

A lot of opportunity to remind you of what, um, some of the best practices are, when entering your data.

557 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:38:13.649 --> 01:38:31.139

But some of the questions we had about our data, or what can they reveal us in terms of trends about migration conditions volunteer activity I shared 1 part of that this evening also. Can they point us in the direction of Where is mitigation needed.

558 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:38:31.139 --> 01:38:35.429

To address road mortality, such as a temporary road closure.

559 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:38:35.429 --> 01:38:44.909

And also can the data inform local conservation planning because getting back to I told you.

560 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:38:44.909 --> 01:39:04.909

I lead our conservation of land use team with the estuary program. We're working with a lot of people who are interested in having data. That can be used for making land use decisions. So we want to try to figure out how can this project feedback into that work and I just wanted to point out the screenshot in the lower right corner of the slide. That was from.

561 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:39:04.909 --> 01:39:09.869

A webinar we hosted a series of 3 webinars

562 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:39:09.869 --> 01:39:17.099

22 years ago or 3 years ago, they're all on our project website and.

563 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:39:17.099 --> 01:39:21.359

1 of them features 2 case studies went from Vermont. When from New Hampshire.

564 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:39:21.359 --> 01:39:41.359

About how amphibian crossing data were used to close a road in Keane, New Hampshire and put in this really incredible salamander and wildlife tunnel in Vermont. And so, if you're interested in kind of ways, that long term data collection at the same location can yield enough data to make these.

565 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:39:41.359 --> 01:39:59.189

Of interventions, which are significant. Um, I suggest you take take a look at those Webinars and we can also share that in our follow up email after tonight. But I will just drive home that idea that we can't just have a couple of years of data. A couple hours of survey and say oh, yeah.

566 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:39:59.189 --> 01:40:08.069

We can close this road. It really requires repeated data at the same locations for a number of years. Before those kinds of, uh, big interventions can happen.

567 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:40:08.069 --> 01:40:28.069

Uh, so Here's some trends in terms of the species that have been seen, um, overall from 2009 through 2023. so, on the left hand column, we have the list of the 20 species that have been observed since the project started with, um, 2 additional unknown categories for salamanders and frogs and toads.

568 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:40:28.069 --> 01:40:36.449

And along the X axis, or the numbers, uh, individuals that have been seen, so, the total counts. So.

569 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:40:36.449 --> 01:40:39.899

What I want to point out is that.

570 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:40:39.899 --> 01:40:59.899

The wood frogs and spotted salamander, the green arrows are pointing to species that were really focused on for this project. There wood frog and spotted salamander are in the top 3 of species that we're seeing and so four toed salamander, which is a little bit less common and not necessarily vernal pool breeder. But a

571 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:40:59.899 --> 01:41:09.719

Focus on our project, we're also seeing them in kind of the top 3rd of species. We're seeing and Jefferson blue spotted, which is a obligate pool breeder.

572 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:41:09.719 --> 01:41:13.589

Uh, we're seeing them in high numbers, but not as high.

573 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:41:13.589 --> 01:41:21.389

So, what does this mean? So, based on some of the analyses that again, at Elise Edwards collaborated on.

574 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:41:21.389 --> 01:41:41.389

We're feeling good that volunteers are seeing the target species. Right? So they're going out the right time of year. We're also seeing that they're very responsive to the reminder emails that we send out through. DEC delivers, um, all of these other species that we're seeing fewer numbers of some of them are.

575 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:41:41.389 --> 01:41:54.239

Stream salamanders that happen to just go out on these warm ish, rainy nights to move. Maybe they're finding new habitat. Maybe they're, um, uh, you know, maybe their habitats drying up. So they need to shift to something that has more water.

576 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:41:54.239 --> 01:42:02.999

Or we're seeing some of these species that breed later in the season. Right? So these early spring, late winter breeders.

577 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:42:02.999 --> 01:42:22.229

That's our focus, but we might see some later in the season. That's what we might see more like tree frog, gray tree frog or green frog, or some of the, you know, American toad, for example, some of these pieces that, like, it a little bit warmer a little bit later in the season. Um, so the data also showed us that volunteers are getting out.

578 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:42:22.229 --> 01:42:27.629

Early enough and late enough in the season that we're kind of seeing the tail end of migrations.

579 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:42:27.629 --> 01:42:32.339

With the caveat I will say throughout the Northeast.

580 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:42:32.339 --> 01:42:38.729

There is migration crossing programs like this from Maine, New Jersey, further south, even.

581 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:42:38.729 --> 01:42:44.249

And we all generally use 40 degrees Fahrenheit.

582 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:42:44.249 --> 01:42:48.479

As the sweet spot for migration temperature.

583 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:42:48.479 --> 01:42:57.059

There are data that have shown and studies that have suggested that Jefferson salamanders and that Jefferson blue spotted salamander complex.

584 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:42:57.059 --> 01:43:17.059

will move earlier when it's a little bit colder, even and if you receive my last bulletin, I shared an anecdote of some northern New York practitioners who actually saw Jefferson salamanders, like, digging their way through snow to get to vernal pools that were frozen with just a little bit of margin of.

585 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:43:17.059 --> 01:43:38.609

That was melted along the sides so it's not clear from the way our data are collected, whether the Jefferson salamander species were seeing the lower numbers are because they are less common and there may be increasingly rare in New York state, or if we're not getting out early enough, um, so what I'm encouraging volunteers to do.

586 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:43:38.609 --> 01:43:44.849

For example, next week, right? Of course, everybody, I'm getting text messages Laura next week! migration?

587 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:43:44.849 --> 01:43:52.979

And this is why I, I lose sleep this time of year. I'm like, I don't know, I don't know it's nature. Um, however, uh, what I would say is.

588 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:43:52.979 --> 01:43:59.129

If it seems like, it's, you know, 37 degrees and raining, and it was warm during the day.

589 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:43:59.129 --> 01:44:07.559

Maybe go out and take a look and even if you don't see anything, let us know that, because that will help us. Understand. Okay. We look for Jeffersons. We're not seeing them.

590 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:44:07.559 --> 01:44:20.249

Um, and, yeah, that that's very exciting to me. So I'm encouraging folks if you're willing to handle the cold, the warm for amphibians the cold for us humans, and go out and look. That's great.

591 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:44:20.249 --> 01:44:24.779

We also wanted to point out 1 of the amazing.

592 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:44:24.779 --> 01:44:30.299

Things about this project is that there are miles and miles of roads, right?

593 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:44:30.299 --> 01:44:50.299

Uh, with the fact that, you know, a 100 or so, volunteers might be on roads throughout the Hudson Valley on a single night means there's so many eyes out observing our wildlife in a way. That doesn't happen, because a lot of these pieces that we look at during migration, they're nocturnal. They're very elusive. You know, we don't see them if you're.

594 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:44:50.299 --> 01:44:53.909

Along on a trail in the forest during the day.

595 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:44:53.909 --> 01:45:00.149

Um, and so any kind of new trends might be picked up by volunteers, and 1 of them. I wanted to point out.

596 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:45:00.149 --> 01:45:20.149

Is adema or salt bloat from amphibians that are in aquatic environments where salinity is increasing due to the runoff of stormwater that's carrying salts from road applications. And so I just wanted to share a couple of examples of photos. Um, uh, in case you're seeing salt blow.

597 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:45:20.149 --> 01:45:27.269

That you learned to notice the difference between salt bloat versus a female full of eggs and also again.

598 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:45:27.269 --> 01:45:45.209

When it's doubt, take a picture, so on the left here, we have a photo that was submitted last year by a volunteer and that's a gravid female. Her mid section is swollen. And you can almost look and see in here, you can see kind of the flex that show that there's all those little eggs in her belly.

599 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:45:45.209 --> 01:46:02.249

As opposed to this likely a male that's very bloated. Very irregularly full its body. It looks like it's about to pop. That would be more of a signature of a salt bloat and then on the right here's a very normal looking wood frog these are all wood frogs Um.

600 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:46:02.249 --> 01:46:16.199

And just to circle back to identification skills that Emma went over, you can see from this view, even looking down. Here's that white lip the White lip line. You can see that on each of the frogs. Can you, can you guys nod? Can you see my cursor.

601 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:46:16.199 --> 01:46:36.199

Yeah, great. And then you also, even from this view, you can see there's a little bit of a dark I patch on each of these. So, um, helping you just remember these kinds of characteristics and it's crazy when you look at these dorsal lateral full that go down the back on the wood frog on this bloated 1 they're just like, so extended. It's so sad.

602 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:46:36.199 --> 01:46:48.149

In any case, so, um, you're being out on the roads looking at our amazing diverse amphibians can help us capture any changes that are happening to individual populations and species like this.

603 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:46:48.149 --> 01:46:53.819

Okay, another example I wanted to share and how the data, um.

604 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:46:53.819 --> 01:46:57.719

Are potentially going to be used is, um, this.

605 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:46:57.719 --> 01:47:00.839

Collaboration I had with Elise Edwards, um.

606 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:47:00.839 --> 01:47:03.959

2 years ago we started going, uh, uh.

607 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:47:03.959 --> 01:47:12.029

Painfully slow, go through all of our data and figuring out ways. It could be used. And I thought we had was to combine.

608 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:47:12.029 --> 01:47:17.609

Amphibian migration and road crossing volunteer data with some features like.

609 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:47:17.609 --> 01:47:26.369

Indicators of development, so, things like impervious surfaces, which include roads, rooftops, developed areas.

610 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:47:26.369 --> 01:47:37.979

And also road density as kind of indicators of areas, it would be bad habitat looking at areas of higher habitat value where there's less development and there's more forest cover and more, uh.

611 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:47:37.979 --> 01:47:54.479

Wetlands that would be suggestive of vernal pools and combining that with places where volunteers we're seeing high diversity and high abundance. So a high number of individuals, and a high number of species, and putting all that in to get all that together into a GIS analysis.

612 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:47:54.479 --> 01:48:14.479

And, uh, again, not to reveal specific locations, Elise created this whole grid of Hexagon cells and created a score for each of those cells based on these variables. Was it a low development? High habitat quality, high level of abundance, high level of diversity.

613 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:48:14.479 --> 01:48:34.479

And use that to kind of score each grid, sell with, where are there, um, probably priority areas, where we might want to think about mitigation and I happen to see a chat question, pop up about imagining road closures would be a tough thing to do. And you said it, it is not an easy thing to do.

614 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:48:34.479 --> 01:48:38.579

Because, um, what they, what we learned from the keen example.

615 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:48:38.579 --> 01:48:46.559

Keane New Hampshire example, is that a lot of buildings building and road departments, Highway departments.

616 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:48:46.559 --> 01:48:55.319

Work hours in, or like, maybe 7:00:a m till 3:00:p. M. and they're the ones who have to go out and put the signs up and put the barriers up on a road.

617 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:48:55.319 --> 01:48:59.999

Sometimes we don't actually know the conditions are going to be right for migration until, like.

618 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:48:59.999 --> 01:49:18.299

4PM , 5PM so to make a call that a road is going to be needing to be closed at say noon based on the very erratic and crazy springtime temperatures and weather is really tough and sometimes the road might get closed when the migration conditions

619 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:49:18.299 --> 01:49:25.079

Basically don't happen so that is tricky. Not to mention the inconvenience of residents.

620 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:49:25.079 --> 01:49:33.629

Um, the inconvenience of travelers coming through and so this brings me back again to the importance of raising awareness.

621 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:49:33.629 --> 01:49:42.689

And connecting people to nature, right? So, if people are out and seeing the mortality of amphibians on a high, a high activity road that has high traffic.

622 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:49:42.689 --> 01:49:47.279

That might help build support in the long run. Um, so just keep that in mind.

623 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:49:47.279 --> 01:50:07.279

The other thing I want to just close with another pilot project we just wrapped up with a partnership with the New York, natural heritage program at the end of last year and we're still reviewing the final products of that and thinking about ways to refine. It is to develop what we call important areas.

624 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:50:07.279 --> 01:50:25.409

I always laugh, because we don't come up with very great project names. Um, but these, the idea of important areas, it's a model that the heritage program has used before, uh, for those of you not familiar or the heritage program is the state, um, collaborative, uh, agency partner.

625 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:50:25.409 --> 01:50:33.689

Through the SUNY ESF, environmental science and forestry school.

626 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:50:33.689 --> 01:50:53.689

They sit in the Albany DEC offices. They're an incredible group of scientists who not only have amazing field skills, but also computer modeling skills and the expertise rather not just skills and we've worked with them over the years to develop what we called important areas. For occurrences.

627 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:50:53.689 --> 01:51:05.159

or rare Plants and rare animals because again, we're trying to inform conservation planning. We're trying to inform land use. So if you're a volunteer on the local planning board, and somebody tells you.

628 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:51:05.159 --> 01:51:25.159

Bam this dot on the map shows you where there's a rare bird species that you need to protect. I'm guessing you might, unless you have a degree in ecology and study that bird, you might not know what that bird needs. So, the heritage program developed this model, that would take the local occurrence of a species think about its life history. How far does it travel? What habitat does

629 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:51:25.159 --> 01:51:42.329

it need? and they would use a lot of GIS data to then project an area in a in real area. Associated with that location of what would be a conservation zone needed to support that local population. So we said, well, wait a minute. Well, could we do this.

630 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:51:42.329 --> 01:51:47.459

With the volunteer amphibian data, so we could say this is a known location.

631 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:51:47.459 --> 01:51:57.989

For an assemblage of vernal pool species and we, we pulled out we took away, we didn't include green frogs, American toads, bullfrogs.

632 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:51:57.989 --> 01:52:15.569

We just included the group of species that we think are associated with vernal pools and pulled out, uh, based on some criteria. What we thought were some of the high traffic or high activity areas and said, okay, we know they travel this far. We know they need forest. We know they need wetlands.

633 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:52:15.569 --> 01:52:25.769

Can we develop an important area for vernal pool amphibians? So this is new and hot off the presses and it kind of looks like this, um, set of, uh, diagrams here to give you an idea.

634 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:52:25.769 --> 01:52:30.419

Where we actually had to take road segments that were identified by volunteers.

635 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:52:30.419 --> 01:52:39.659

What does that mean? The road segment that your reporting is actually being scrutinized in projects like this. So, if you're not being specific.

636 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:52:39.659 --> 01:52:45.749

It's going to dilute the value and the accuracy of things we can do with your data.

637 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:52:45.749 --> 01:53:05.749

So this gives you a great example. We, we actually took the roads that you identified the, uh, the, if you gave us only a midpoint and you said you monitor half a mile we had to kind of guess, okay, there was about a quarter mile on either side of this point. We created a road sausage. That's what we called each of these segments and we then decided.

638 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:53:05.749 --> 01:53:25.749

Uh, you know, how to, uh, what, what features of these other map layers to include in that road sausage to then create a zone around it that would warrant conservation if we wanted to maintain those populations. So again, this helps us get back to this question. Can volunteer data be used to identify conservation needs and priorities.

639 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:53:25.749 --> 01:53:43.739

To help these amphibians. So once these data are, uh, reviewed well, the maps reviewed well, we're going to maybe tinker with some of the criteria this year to see if we can't make it even better. Um, and then eventually we'll be able to share these with planners with land trust with communities that are interested in protecting these habitats.

640 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:53:43.739 --> 01:54:00.389

So, all that said, these are the species that you're helping these amazing, beautiful, vernal pool species. We haven't really talked about the incredibly plump and cute marbled salamander tonight. And I'll just say the reason being is that they breed in the fall.

641 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:54:00.389 --> 01:54:06.839

And so there's only been a handful seen in the 15 years of the project.

642 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:54:06.839 --> 01:54:18.689

Because they might just occasionally be out in about, but really they migrate to pools in the fall and that's a whole life history. Uh, that's very interesting. And, um, we can talk about that another time.

643 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:54:18.689 --> 01:54:30.959

So, some of the take home messages about the data, if the data are collected well, and reported well, volunteers and this project, and hopefully help us learn about migration when, and where it's happening.

644 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:54:30.959 --> 01:54:36.239

Again, help us raise awareness so important if we want to justify any.

645 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:54:36.239 --> 01:54:44.009

Conservation actions associated with these data and the project also hope hopefully helping people recognize while we're addressing.

646 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:54:44.009 --> 01:54:52.799

Fragmentation that's here now, let's try to avoid fragmentation in the future. Right? So where do we build? And where do we put roads in the future?

647 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:54:52.799 --> 01:54:58.349

Volunteers also can have the immediate positive impact on helping migrating amphibian.

648 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:54:58.349 --> 01:55:03.389

Survive they've helped to move almost 39,000, amphibians.

649 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:55:03.389 --> 01:55:14.039

They can observe species changes like the salt bloat and then hopefully those are kind of the short term impacts. We can have some longer positive impacts.

650 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:55:14.039 --> 01:55:19.019

A longer term positive impacts, like, um, helping inform where mitigation is needed.

651 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:55:19.019 --> 01:55:35.009

Like, temporary road closures, or infrastructure is any of you who pay attention to wildlife connectivity initiatives you'll know that there's been increased federal funding for these kinds of projects and certainly, right now it's focused on large mammals that cause.

652 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:55:35.009 --> 01:55:43.379

vehicular problems, but more and more, some of this funding might be trickling down to some of our smaller species that also need.

653 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:55:43.379 --> 01:55:46.559

Safe road enclosure or safe road passage.

654 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:55:46.559 --> 01:55:51.659

And then also, the longer term impacts of the project might include, um.

655 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:55:51.659 --> 01:56:06.029

Proactive not pre active well, not reactive, but proactive conservation planning for helpful spaces habitat by knowing about where these crossings are, where the associated habitat is.

656 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:56:06.029 --> 01:56:11.459

Yes, thank you to all of you for contributing to that.

657 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:56:11.459 --> 01:56:15.869

Yeah, and so to debrief tonight, um.

658 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:56:15.869 --> 01:56:21.479

All the resources we've been talking about are on the webpage, which we've shared in the chat.

659 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:56:21.479 --> 01:56:36.029

We do encourage you to take if you have another hour and a half between now and migration just review the YouTube modules. I always joke they're not like National Geographic grade videos, but they do get the points across that. We've kind of gone through quickly today.

660 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:56:36.029 --> 01:56:50.489

We're going to share all of this in a follow up email. You will when you log out of the Webex immediately be directed to a program evaluation, you might get a pop up box telling you, you're going to an external site.

661 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:56:50.489 --> 01:56:57.329

It's that's natural, normal, so just hit continue and hopefully go through and just give us some feedback on tonight. Just a few questions.

662 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:56:57.329 --> 01:57:01.979

Um, and in terms of when to prepare yourself now, now is the best time.

663 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:57:01.979 --> 01:57:09.209

Make sure headlamp is working. Make sure your flashlight is working get your batteries out. Get your rain gear out. Get your data forms. Ready to go.

664 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:57:09.209 --> 01:57:15.539

Uh, and for those of you, who want to stay connected.

665 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:57:15.539 --> 01:57:32.459

Over the course of this year, uh, this season we are for the first time going to be holding an assortment of office hours. We just picked different times each week of March for about an hour. It's a good chance. You can maybe, um, get on. We'll we'll be able to have everybody on camera.

666 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:57:32.459 --> 01:57:44.159

You can chat, you can share photos we can talk about identification challenges, stories of great things you get to see. So we'll be sending out, save the dates on that and, uh, links to join us for that.

667 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:57:44.159 --> 01:58:04.169

So now we're just going to ends with a little art with a little poetry with a favorite poem that I have, that's about American toads. But you can certainly imagine how this would apply to moving our vernal pool amphibian species across the road. And this is a poem called birdfoot's grandpa by Joseph Bruchac.

668 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:58:04.169 --> 01:58:13.559

The old man must have stopped our car 2 dozen times to climb out and gather into his hands. The small toads.

669 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:58:13.559 --> 01:58:18.149

Blinded by our lights and leaping, like, live drops of rain.

670 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:58:18.149 --> 01:58:28.439

The rain was falling, a mist about his white hair, and I kept saying you can't save them all accept it. get back in. We've got places to go.

671 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:58:28.439 --> 01:58:38.669

But leathery hands full of wet brown life, knee, deep in the summer, roadside grass. He just smiled and said they have places to go too.

672 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:58:38.669 --> 01:58:59.839

So, I hope that makes you feel the magic of vernal pools, and vernal pool amphibians. And of the season ahead were really excited that yall joined us and look forward to staying in touch big thanks to Madeline and Emma and sherry for CO presenting and monitoring the Webex.

673 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:58:59.839 --> 01:59:13.049

Tonight and everybody who joined us, um, so there's our contact information. You can always reach us at the woodlandpool@dec.ny.gov email address or to our personal accounts as well.

674 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:59:13.049 --> 01:59:24.681

So, I will, uh, I guess stop, uh, no, I'll keep sharing Madeline and we'll, uh, end the, uh, the program. And, uh, as we mentioned, it'll be recorded.

675 "Emma Clements (she/her), Hudson River Estuary Program" (4019364352)

01:59:24.681 --> 01:59:25.911

We'll we'll be able to share that with, you.

676 "Madeline McDonald (She/her), Hudson River Estuary Program" (3768962304)

01:59:25.911 --> 01:59:28.579

As well, if you want to share it with others or watch it again.

677 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:59:28.579 --> 01:59:34.709

So, thanks everybody, thank you everyone for coming out.

678 "Laura Heady (she/her), Hudson River Estuary Program" (606705920)

01:59:34.709 --> 01:59:37.799

We really enjoy getting to be with you all. Mm. Hmm.