

Building a citizen science partnership for research and stewardship

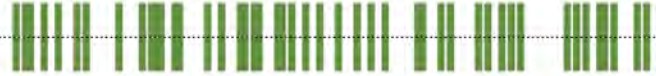
Maine Sustainability and Water Conference
Hannah Webber
Schoodic Institute
March 29, 2018







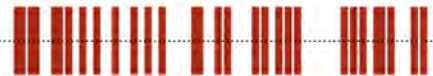
Fruits (2014)



Fruits (2017)



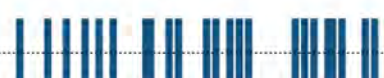
Ripe Fruits (2014)



Ripe Fruits (2017)



Recent Fruit or seed drop (2014)



Recent Fruit or seed drop (2017)



January February March April May June July August September October November December

USA National Phenology Network, www.usanpn.org





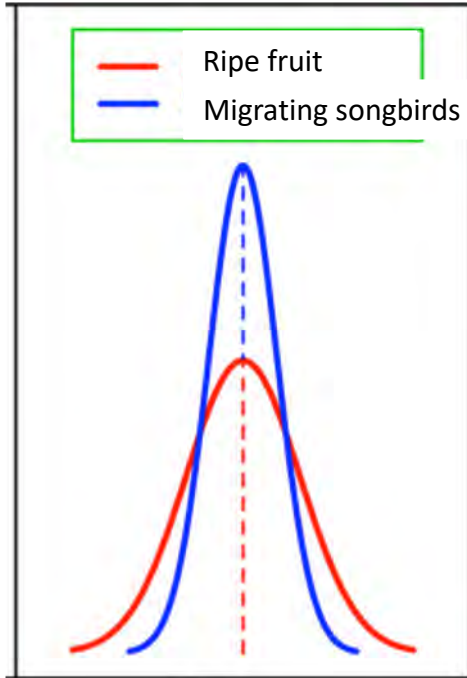
KYLE
© LIMA



SCHOODIC
INSTITUTE
AT ACADIA NATIONAL PARK

As climate warms...

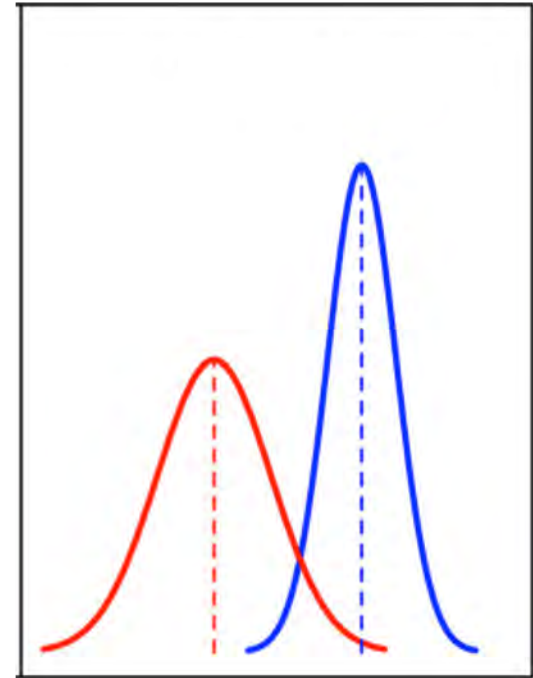
match



?



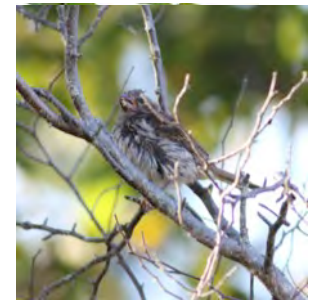
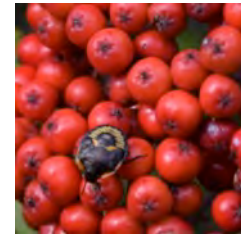
Mismatch



Autumn



Autumn

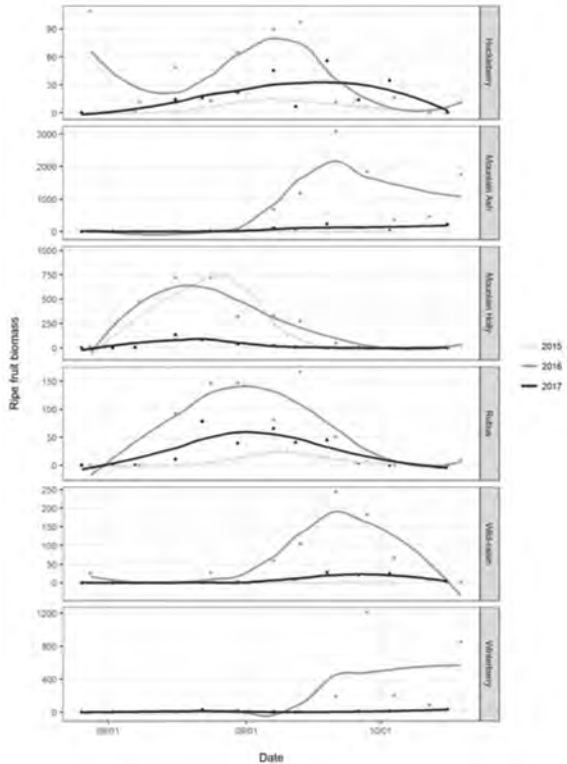


Study goal: Quantify changes to the fall distribution of fruit with respect to Bird migration timing.

Study goal: Quantify changes to the fall distribution of fruit with respect to Bird migration timing.



- Fruit phenology for:
 - Mountain ash
 - Mountain holly
 - Rubus
 - Northern bayberry
 - Black huckleberry
 - Shadbush
 - Wild raisin
 - Winterberry



As well as bird work and insect biomass...



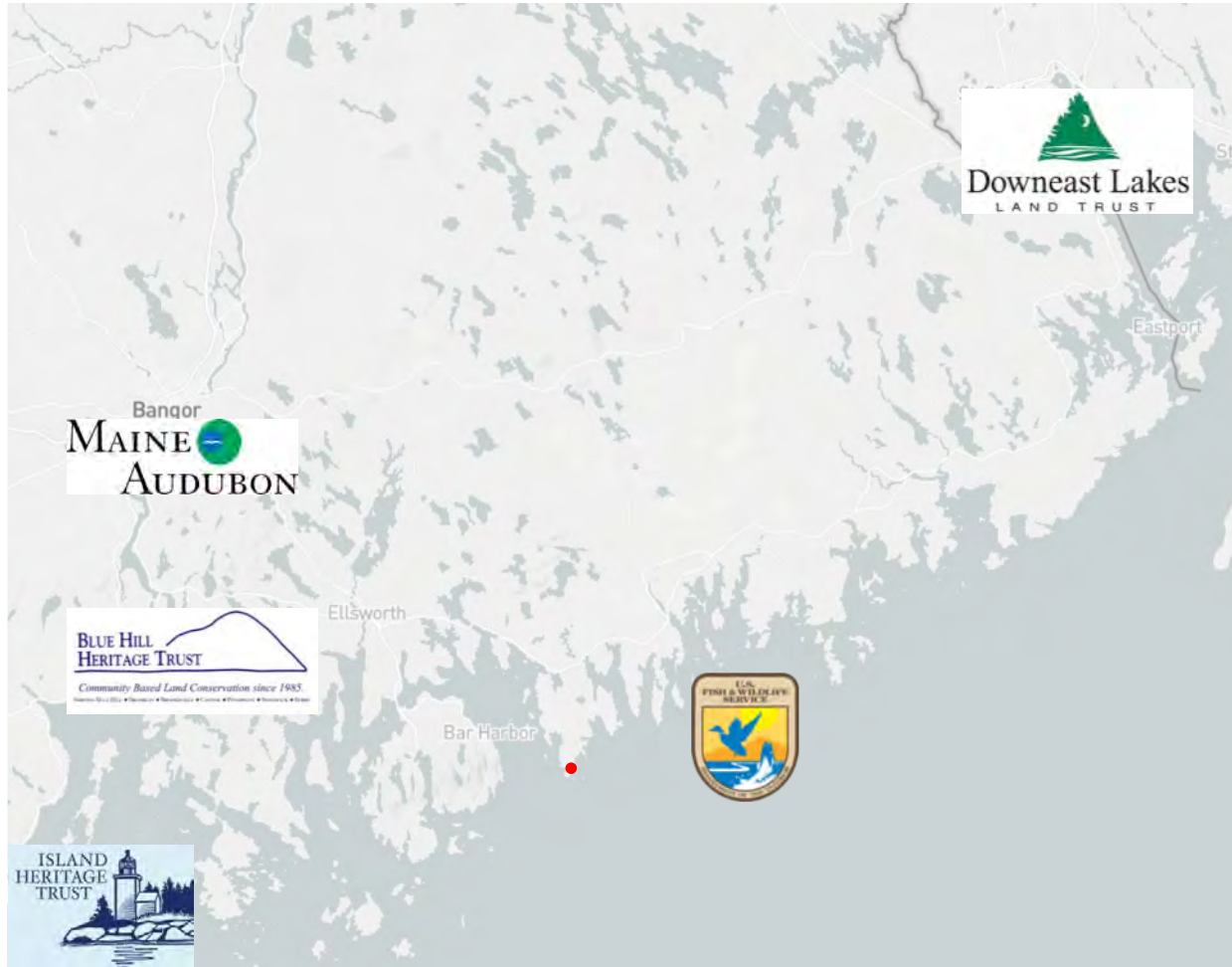
Study sites on Schoodic Peninsula



What can these two sites tell us about regional fruit phenology and availability?



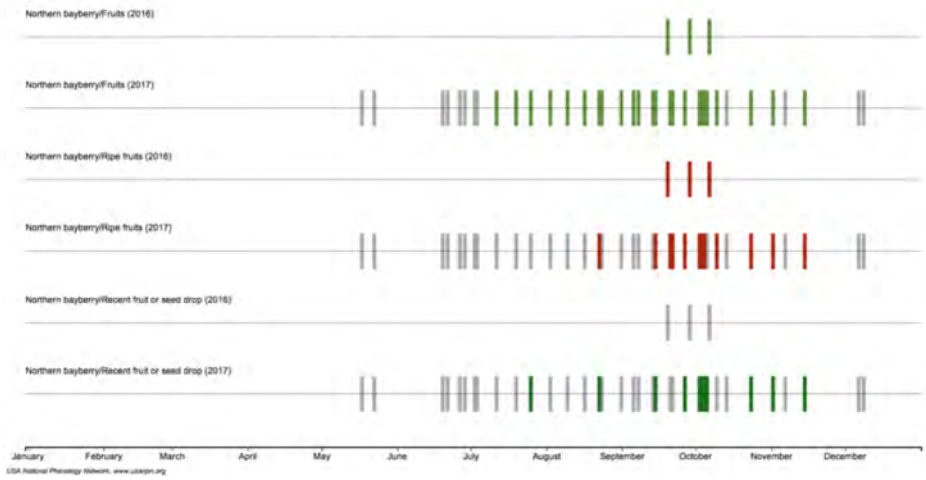
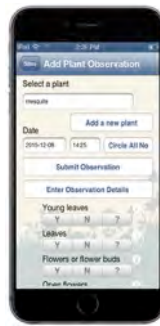
Partners



Goals:

- Expand the geographic range of data collection to support research,
 - Teach about phenology, and
 - Promote the application of citizen science for conservation on conserved lands in the region
-
- Provide opportunities for people to actively engage with the properties,
 - Educate people about how conserved lands are supporting biodiversity, and
 - Build knowledge and skills in the community to support conservation

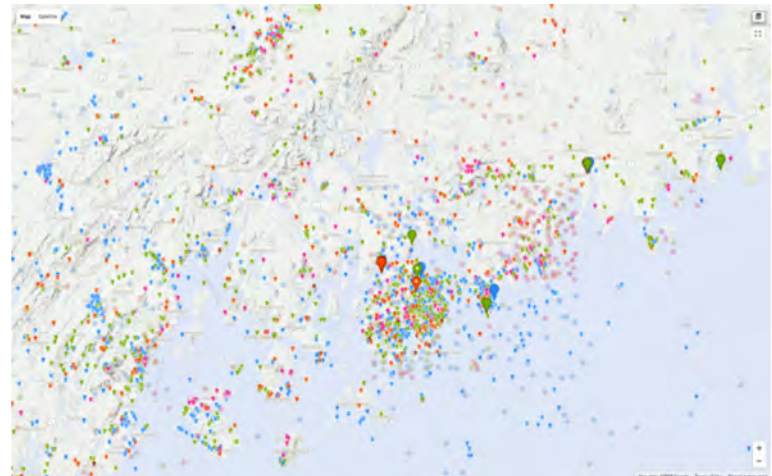
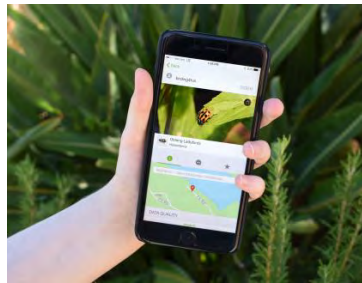




eBird



iNaturalist.org





Fruit! Birds! Insects!=too much, too fast

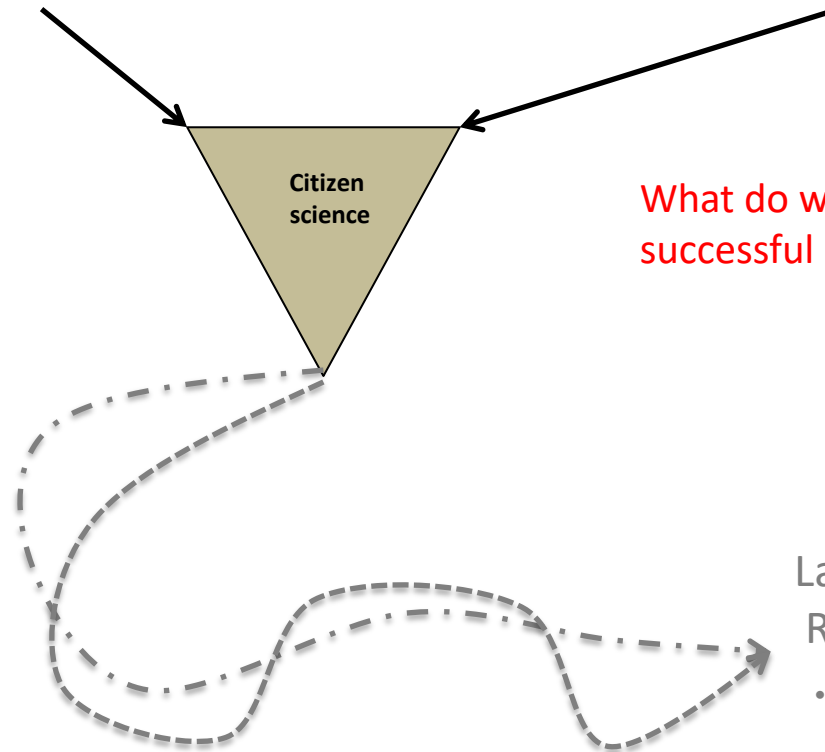


Researchers

- useful data,
- share the research story
- Promote citizen science for conservation

Land trusts

- use tools for conservation actions, including education



What do we need to do here for successful outcomes?

Land trusts and Researchers:

- use tools for conservation actions, including education
- Useful Data
- share the research story

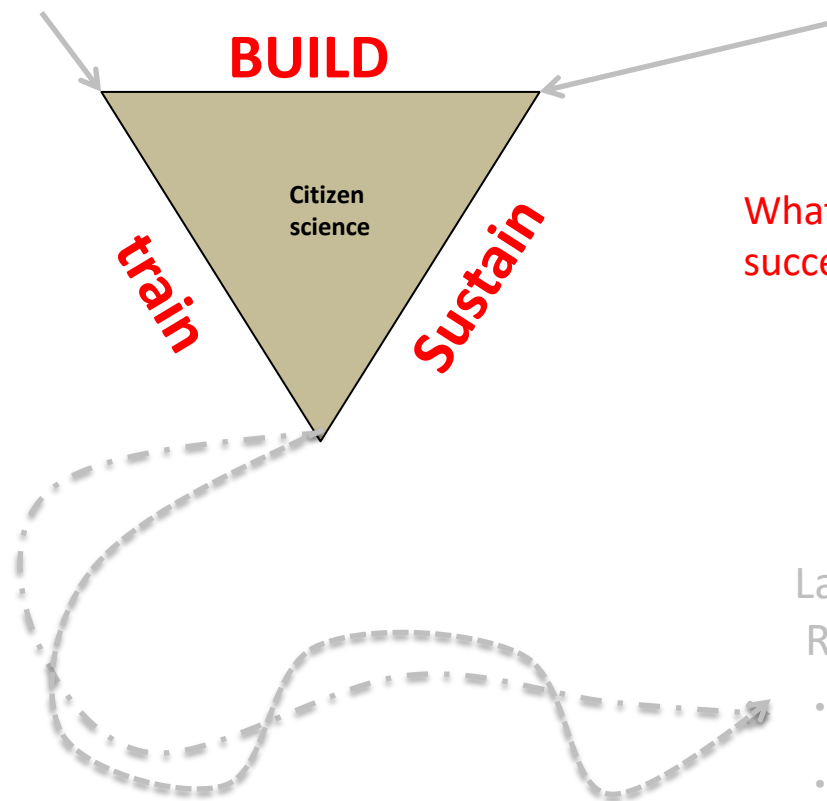


Researchers

- useful data,
- share the research story
- Promote citizen science for conservation

Land trusts

- use tools for conservation actions, including education



What do we need to do here for successful outcomes?

Land trusts and Researchers:

- use tools for conservation actions, including education
- Useful Data
- share the research story

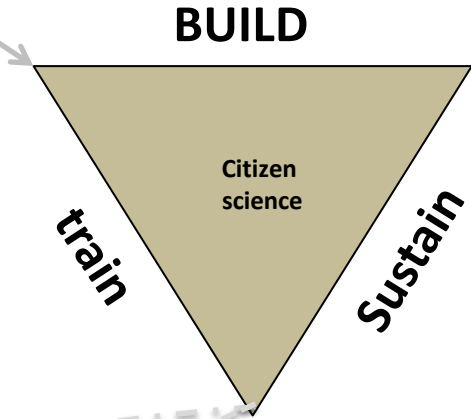


Researchers

- useful data,
- share the research story

Land trusts

- use tools for conservation actions, including education



- What do we really want to understand on a regional scale?
- What can one person or a group get involved with?
- What will take minimal training?

Land trusts and Researchers:

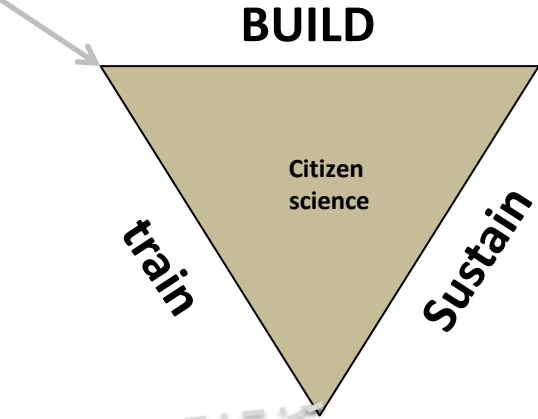
- use tools for conservation actions, including education
- Useful Data
- share the research story

Researchers

- useful data,
- share the research story

Land trusts

- use tools for conservation actions, including education

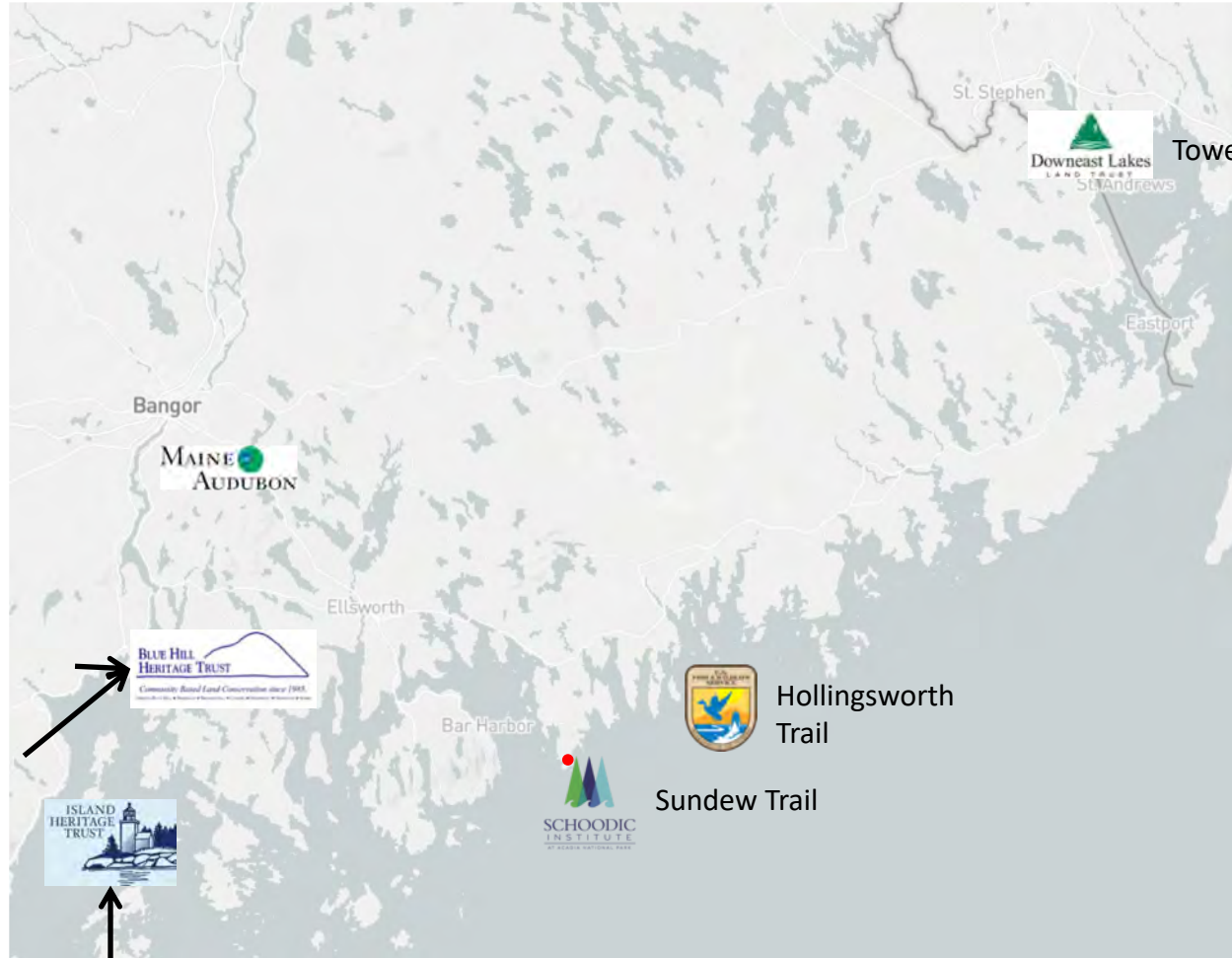


- What do we really want to understand on a regional scale?
- What can one person or a group get involved with?
- What will take minimal training?

Land trusts and Researchers:

- use tools for conservation actions, including education
- Useful Data
- share the research story

FOCUS on phenology!



Tower Hill Trail

FPAC nature Center

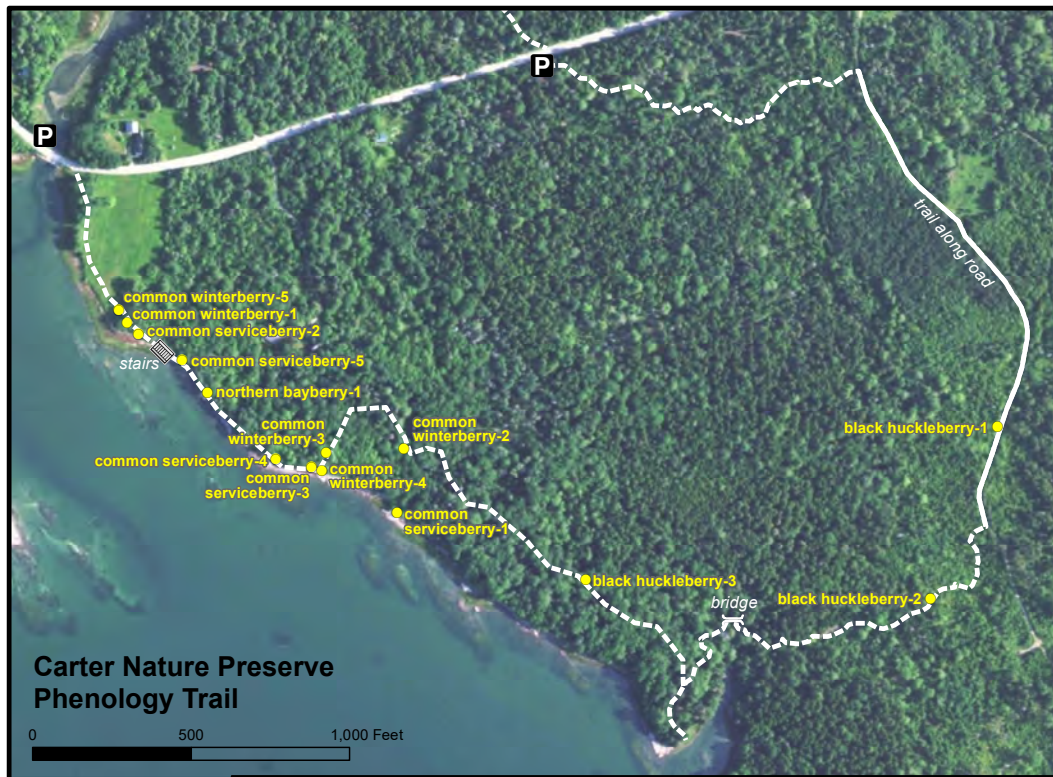
Hundred Acre Wood

Carter Nature Preserve

Hollingsworth Trail

Sundew Trail

Scott's Landing





2018 training dates at
Schoodic:

Wednesdays:

July 11

July 18

July 25

August 1

August 8

August 15

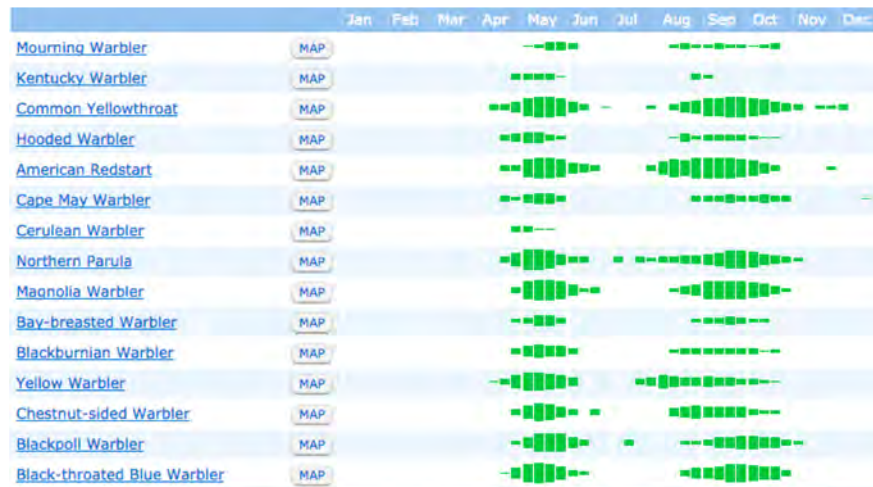
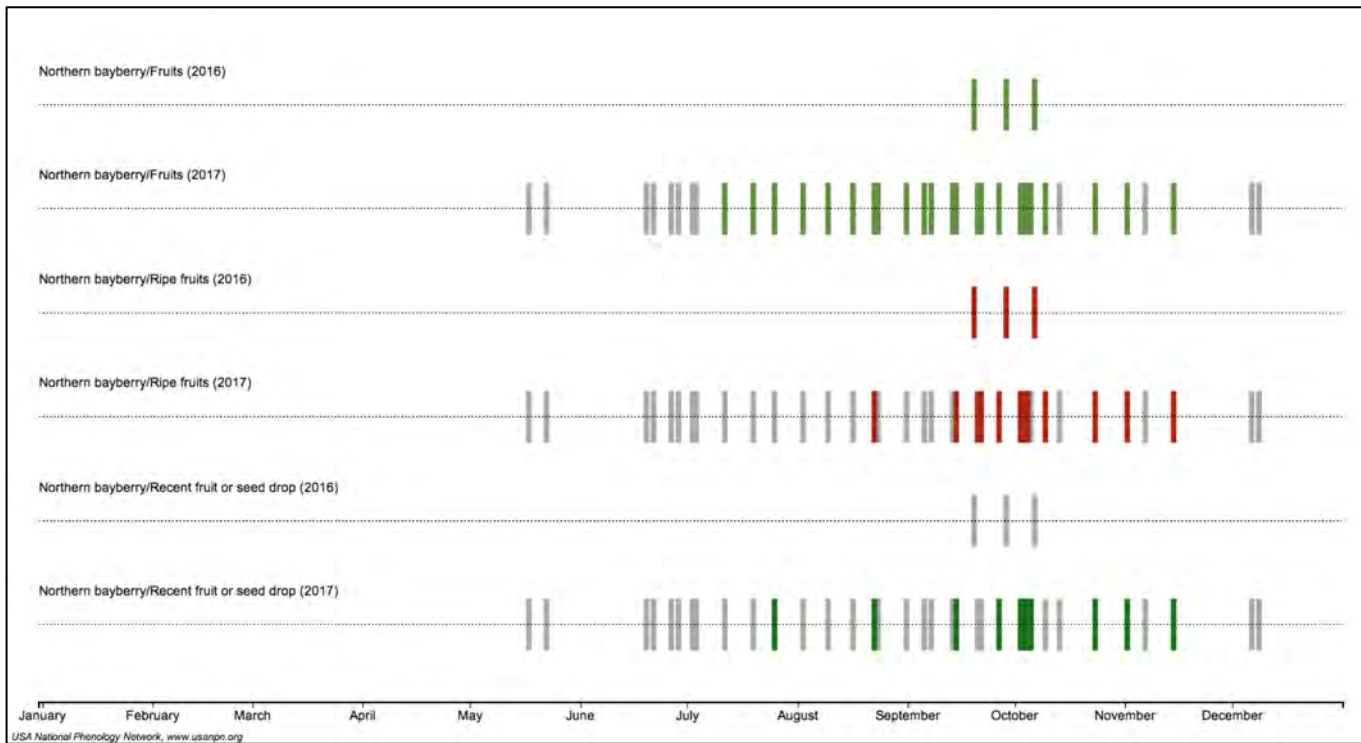
August 22

August 29

Open to anyone

Free*





2017 Frazer Point Intertidal Bioblitz

Event Stats

266
Observations »

50
Species »

14
People »

- #### Most Observations
- hannahwibler (24 observations)
 - cncatt (18 observations)
 - clarewing (26 observations)
 - ajloma (25 observations)
 - scottshelton (23 observations)

- #### Most Species
- hannahwibler (24 species)
 - ajloma (18 species)
 - cncatt (11 species)
 - tbbj_arnst (11 species)
 - scottshelton (11 species)

- #### Most Observed Species
- Great Shore Crab (22 observations)
 - Dog Whisk (18 observations)
 - Blue Mussel (14 observations)
 - Alpine Barnacle (11 observations)
 - Common Periwinkle (9 observations)



Members 16 members

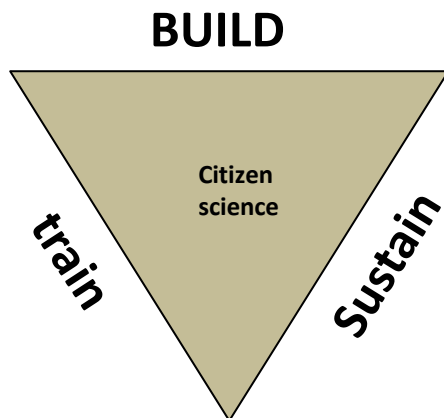
[View all members](#)

Your membership 0 observations

Add from your observations
Download template for use in the bulk uploader

Export observations
Atom / CSV / PDF / CSV

About
The purpose of this bioblitz is to compare the current intertidal invertebrate species with those recorded in a 1977 "bioblitz". It wasn't called this at the time, but similar idea. The participants in this bioblitz will be some Schoodic Institute staff along with an Earthwatch teen volunteer group and the Acadia Teaching Fellows. Along with data collection, the goal of this bioblitz is



Move from:

Move To:

Oral story



Support materials

Building walks



Training

Training



Train the trainer

Data contributor



Data contributor AND data user

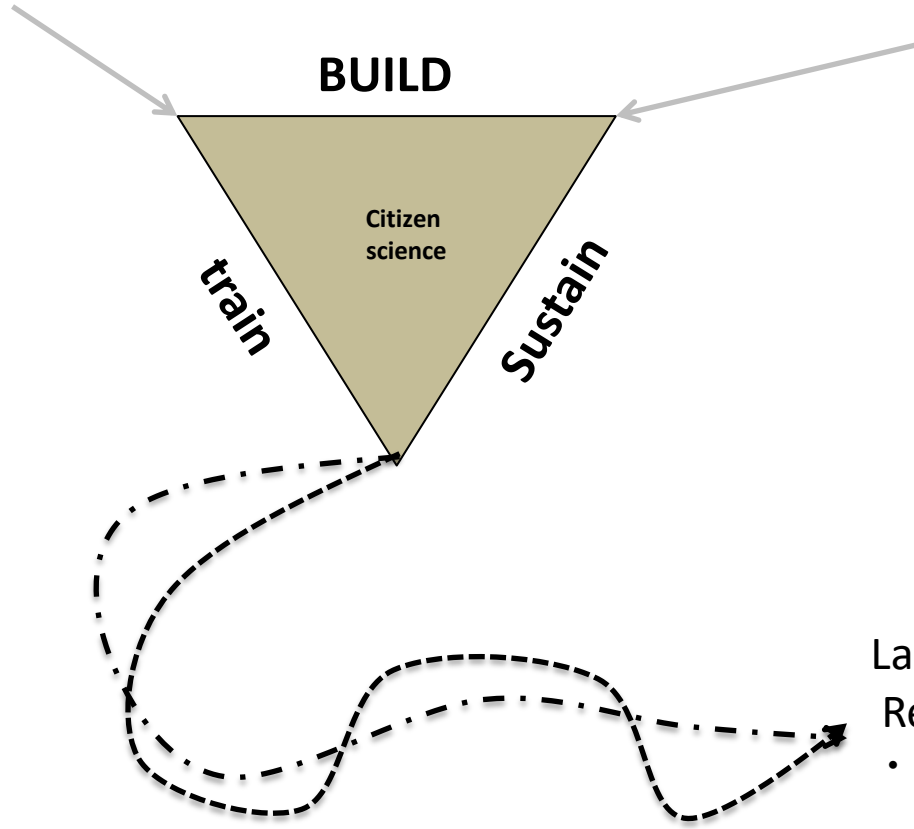


Researchers

- useful data,
- share the research story

Land trusts

- use tools for conservation actions, including education



Land trusts and Researchers:

- use tools for conservation actions, including education
- Useful Data
- share the research story

Thanks! And Questions?



BLUE HILL
HERITAGE TRUST

Community Based Land Conservation since 1985.
SERVING BLUE HILL • BROOKLIN • BROOKVILLE • CASTINE • PENOBSCOT • SEDGWICK • SURRY

MAINE 
AUDUBON



eBird



iNaturalist.org

