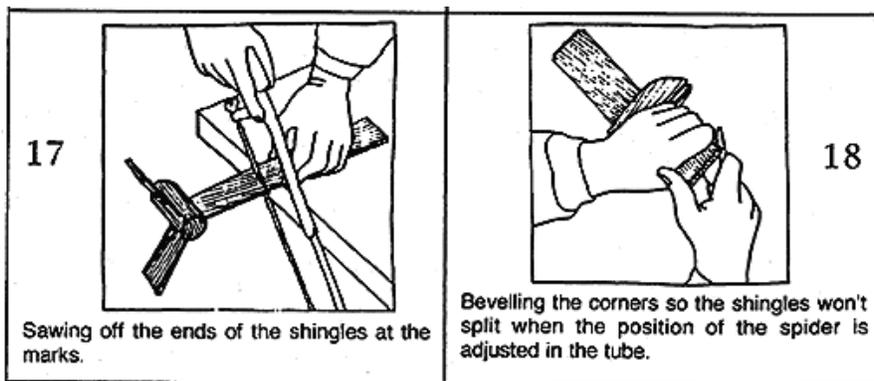


THE ENVIRONMENTAL SCIENCE PROGRAM 2006 | ts# 6.
Under most circumstances, I'd say you are right. When is most?



These hands are those of a professional. These trip slips are truly deep, however, I leave it to you, the tripslip-ee to stay alert and sift through the non-sense (of which I admit there will be plenty) and blatant disregard for line-breaks and somehow find the quality information that will prove to be immeasurable in the days to come.

Today and/or tomorrows trip (depending on when you read this):

CABOT WOODS.

It's got a long rock wall with a big oak tree at the north end.

Pertinent Information:

Ts# (trip slip number): 6
D|t (date and times): July 12, 2006 / 9am-4pm
Ml (meeting location): Brown middle school
L (leaders): Jonathan Rivnay {617-645-1379} & Lyuda Kovalchuke {617-558-5567}
vEq (various equipment): Hiking boots, Lots o' Water, Lunch, Field Kit (Raingear, First Aid, etc.), Notebook/pencils/pens, Love and/or devotion and/or emotion, Lucky Charms.

Informational Haikus {i5|7|5}:

It's called Edmands Park.
Cabot Woods has 'nother name?
Yes, It does indeed.

Newton politics.
But a park established here!
Many learn'ed eyes.

Glacial formations,
So much succession in swing
What about the trees!

Esker formation:
Water channels through glacier,
Sediment remains.

Boston.com predicts:

Wednesday,
July 12, 2006



m. sunny
H84 / L68

Boston.com won't attempt it, but the National Weather Service says: Mostly sunny, with a high around 83.

My conclusion: again, bring your raingear and lots of water.

Who: Lynda "Kns" Kovalchuk
617-558-5567

Jon "Athen" Rivnay
617-645-1379

Meet at: Brown Middle School

When: 9am - 4pm

Supplies: Lunch, H₂O, hiking boots, ram gear, extra boot laces, 1st aid kit, sunblock, bug spray, Cabot's ice cream?

Well, well, well, it looks like tomorrow you, Jon, and I will be heading to Cabot Woods! Cabot woods is really cool for a variety of reasons. One is that it was Newton's first ever woodland park! The Edmonds family gave Cabot woods to the City of Newton in 1913; that's why C.W. is also called Edmonds Park. Another reason Cabot rocks is more geological; the park is home to an estee, a long snakey hill that was formed in a glacier. We'll hopefully talk about just how this happened tomorrow. I hope you're excited for tomorrow, because Cabot Woods is an awesome trip!

an estee



In case of an emergency, your child will be brought to: Newton Wellesley Hospital
This program must comply with the regulations of the 617-243-6000 Department of Public Health and must be licensed by the City of Newton Health Department

Cabot Woods

Tuesday, July 5, 1994

Times: 9am-2pm

Leader: Daniel Ordorica (244-5023)

Tripslip #2

Equipment: Daypack

(don't forget Lunch

Water

and Boots)

Okay, here it is, your first "real" trip...this trip is a hike to Cabot Woods (near Cabot school) where we will be able to see a whole mess of different unique environmental occurrences. Among others we will look at a pond, a victim of pond succession, it no longer resembles any pond you've ever seen (there's hardly any water left) and you will come to understand how most ponds go through this process of changing from a pool of water to a prairie.

Also, you will be able to see an esker, a geological formation created by a glacier. We will learn a bit about glaciers, how they're formed and their major contribution to our geological environment. We will discuss the three different types of rocks most often found in the Newton area, and how they are formed.

Finally, since we are amongst the trees, we will learn what makes up a tree. The different parts of a tree, how a tree works, and the different types of trees that you will be able to see in Newton.

Chances are, we will be carrying a water test kit along with us, so that we are able to test what little water is left in Cabot Woods. You will learn to take a water sample, and perhaps test it's pH, Nitrogen content, or Phosphate content.

"You must cut down the mightiest tree in the forest with . . . a herring!!!"

CABOT

9am - 4pm
meet @ Brown

July 11, 2005
trip slip # 5

Your leaders:
Jeff Huenes-Moore
(617-332-9306)
David Krinsky
(617-332-4439)

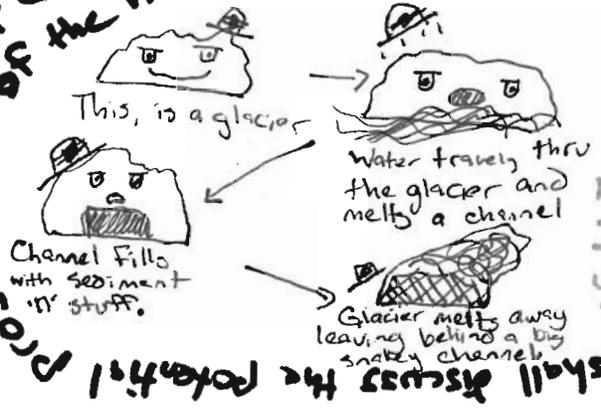
Woods

Bring: Boots, H₂O,
Lunch, Field kit,
First aid kit, Pens,
Notebook,

Cabot Woods, a.k.a known
as (just kidding, I know what
aka stands for) Edmands Park
is located, strangely, near the
Cabot Elementary School. Now,

Cabot woods used to be one of our cities first Woodland
Parks which was given

to our city by the
prestigious Edmands Family, which makes
the two and boots
cross
we shall discuss the potential
of the one and only
debate of geology. Does anyone know what an Esker
is? look inside
firewell.
yourself.
into an Esker
of formney
you'll have the power
I hope that one day
initiation of an Esker.
and formation and
have it, the creation
There you



Amos Lawrence Edmands. While

In case of emergency, your child will be brought to:
Newton Wellesley Hospital: 617-243-6000.
This program must comply with the regulations of the Massachusetts Dept. of
Public Health and must be licensed by the city of Newton Health Department.

Cabot Woods

IT'S ALSO CALLED EDWARDS PARK!!!!

SHUT UP.



Trip slip #7
Thursday, July 10, 2003
(GABE'S BIRTHDAY)

Brown Middle School

9 AM - 4 PM

Joey Backer
617-969-0288

Maddie Logowitz
617-969-7689

AND IT'S GEOLOGY DAY AT ENVI-SCI!!

Okay, gumshoes, here's the skinny: Today we're clunking off to Cabot Woods, which is (not surprisingly) near Cabot Elementary School. No sweat, much. Cabot Woods was Newton's first Woodlands Park, given to the City by the Edmands Family (hence the official-type name) in 1913, in memory of one J. Wiley and one Amos Lawrence Edmands. Very cool. And we'll delve into the ever-popular subject of pond succession, focusing on the ways outside factors can speed up the life cycle of a pond; that is called accelerated eutrophication by cool people in general.

- EQUIPMENT -

 - Hiking Boots, 2 Liters Water, Lunch, Field Kit,
 - Raingear, First Aid, Notebook, Salamander

But of course, the Big News of the Day is that we are celebrating Geology Day here at Envi-sci!! Cabot Woods is very, well, geological... it has an esker!



Here we have a glacier.



Water runs through the glacier and melts a channel.



Channel fills with sediment 'n' stuff.



Glacier melts away, and big snaky hill is left behind.

THE BIRTH OF AN ESKER...

Cabot Woods

Trip slip #5

Leader:

Jeff "Lost For Words" DeCew

617-964-7845

"Fearless" Lyuda Kovalchuk

Special Items:

A sundial based wristwatch.

Required Items:

Hiking Boots

WATER (2 liters)

A Lunch

Field Kit

Raingear

First Aid

Notebook

Sun screen

Bug Repellant

Optional Items:

Cabot Cheese

Cheddar or

Extra Sharp

Wood

A Glacier (a part of

Meeting Place:

Brown Middle

School!

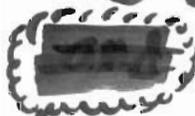
Times:

Meet: 9:00 AM

Leave 4:00 PM

Well, hello Envi-Sci-ers!

Please take a step into my little trip slip. It's exciting because we will be discussing

 (because it is just cool) WX. For those who don't know, WX is

Weather.

CLOUDS: these fluffy misty things are part of the water-cycle which helps sustain life!

FRONTS: these invisible giants are the driving forces of WX, for their movement and collisions lead to some of the most phenomenal events (like tornadoes)

MORE TO COME
(much more)

617-243-6000



In case of an emergency, your child will be brought to: Newton-Wellesley Hospital -- 617-243-6000

This program must comply with the regulations of the Massachusetts Department of Public Health and must be licensed by the City of Newton Health Department.

CABOT



a tree ↑

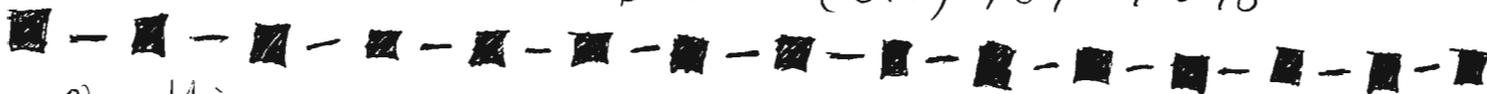
Trip slip # 5 7/8/04 **Woods**

Where: Brown Middle School When: 9am - 4pm

Equipment: boots, water, lunch, raingear, notebook/
pencil, 1st aid

Leaders: Lyuda Kovalchuk (617) 558-5567

Jeff "DQ" DeCew (617) 964-7845



On this exciting trip we will set off for Cabot Woods, which was Newton's first ever woodland park. Cabot Woods is also called Edmands Park. "Why?" you may be wondering. I will tell you.

It's because it was the Edmands family that gave the park to the City of Newton in the first place. This happened in 1913, so Edmands Park is pretty old. It is also quite cool because it contains many different kinds of trees, a wetland that used to be a skating pond, and, above all, an ESKER. "What is an esker?" you ask. An esker is a long, snakey hill that was formed when sediment and dirt and stuff clogged up a river in a glacier. When the glacier melted away, all that was left was the ridge of sediment.

In case of an emergency, your child will be brought to: Newton-Wellesley Hospital 617-243-6000

This program must comply with the regulations of the Massachusetts Department of Public Health and must be licensed by the City of Newton Health Department.

Sediment

Leader: Amelia "Def" Runyan (617-244-8836)
meet@ Brown Middle School
Times: 8:30 AM - 4:00 PM

Equipment: Water, Lunch, boots, field kit

Ice cream
cone,
get it?
Cabots?

J. Wiley

A. Lawrence



Cabot

Woods



Watch out
for poison
ivy!

poison ivy is
a member
of the sumac
family and
is very yucky
to have!

LEAVES
OF
3
Let it be!

a.k.a
Edmands Park

Edmands park was Newton's first woodland park. The Edmands family gave the park to the city in memory of J. Wiley and A. Lawrence Edmands.

At Cabot woods there is an esker. What is an Esker? An esker is the thing formed when a river runs through a glacier and deposits all kinds of much and when the glacier moves away, it leaves a long thing ~~hilly~~ ^{twice} hilly thing, which is an esker.

And since by ~~now~~ ^{of} ~~you~~ ^{I made a mistake!} now you all know about pond succession like the back of your hand  you can tell me all about it because there is a pond there that is barely even a pond because it has gone through accelerated eutrophication. cool word. cold chillin. Cabots woods is mostly an oak forest but it also has a lot of cool maples, beeches, birches poplars and other cool trees.

Catch ya on the flipside!

Cabot

Woods



tree + squirrel

JULY 10th * BROWN * 9:00AM

Maddie: 617-964-7699

Joey: 617-969-0288

BRING THE USUAL:

boots, lunch, water, notebook/pen, raingear

This is a fun trip because Cabot Woods is the coolest place ever. And it will be extra fun, you know why? Because although there is a perfect example of pond succession we will not be learning about it. Oh no, we have something much more exciting to do! We are going esker hunting! And no its not an animal (The program does not support the killing of poor, defenseless animals, unless of course their head would look really cool when mounted) it is actually a ridge! Back in the day, when glaciers covered MA, a stream carrying sediment and rocks would form under a glacier. The pressure formed a ridge, which remains today. Our goal is to find the esker.



Leaders:

Jenny Casavant
(969-2776)

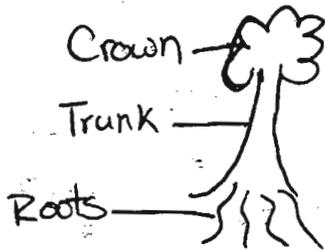
Alex Kraus
(964-7768)

Trip slip # 2
7/2/96
9AM - 2PM



CABOT

WOODS

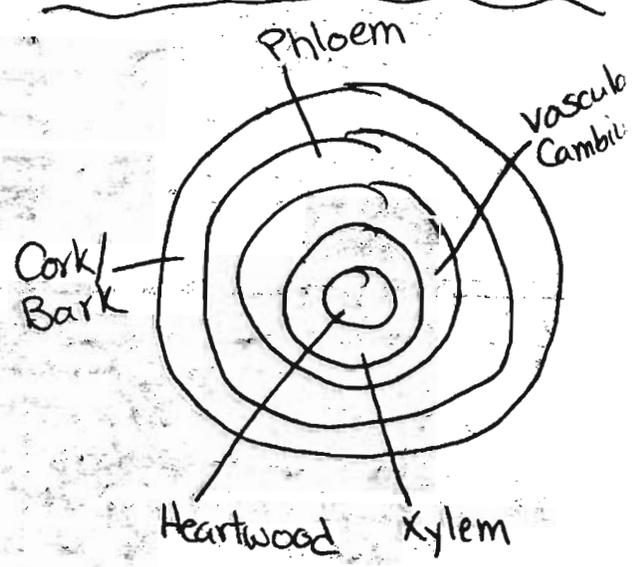


EQUIPMENT

- Daypack
- Notebook
- Pencils
- Lunch
- Water
- Boots
- 1st Aid Kit

Aww Yeah! This is our first real trip! Woo Hoo! Alrighty, we're going to Cabot Woods so take a wild guess what we're going to be talking about a lot; Right, trees. Cabot Woods is also called Edmand's Park because it was donated to the city by the Edmands Family in 1913. Hmm.. What other fun things can we learn in Cabot Woods? Ahh. We can see what's left of Edmands Pond (which isn't much). Why did there used to be a pond, but now it's going away? Don't know? Well we'll talk about it when we get there. Cabot Woods is also an esker. What in God's name is an esker? Well we can also talk about that and other cool glacial and geological stuff.

The Inside of a Tree Trunk



Leaders:

Jenny Casavant
(969-2776)

Gordon Zoble
(244-9304)

Trip slip #2

July 5, 1995

9AM - 2PM

Cabot Woods

Equipment: Boots,
Water, lunch, daypack,
notebook, pencils, First
Aid kit, Extra bootlaces,
pocket knife

POND SUCCESSION

Bare Bottom - sandy bottom,
no fish, hardly any plants



Submerged Vegetation -
some underwater plants, small
fish and other animals



Emerging Vegetation -
Cattails, purple loosestrife



Temporary Pond and Prairie-
marsh



What stage is Edmunds
Pond in??

Well, today is your first real trip! Woo Hoo! Today we'll be traveling to Cabot Woods, otherwise known as Edmunds Park. When we get there we will see (what used to be) Edmunds Pond which has undergone pond succession. While we're at Cabot Woods we'll also look at different types of trees and their different parts.

Be sure to bring lots of water and since we're going into the woods, bug repellent might be good to have.

CABOT WOODS

EQUIPMENT: water, lunch, boots, notebook, pencil, field kit (suggested)

you will
definitely
need
it.
100 things

Today we will be going to Cabot

we will be talking about 10 forest stages
starts either at a marsh or bog stage
pond and forest succession through to
climax and then climatic stages. How
and forest succession will start age
to you think would grow in these stages and why?

In Cabot woods there is an aspen. The color is in
floor bed of
would cause

Go

tree - us to be 15-20 feet tall. What other
characteristics must it have? We also could take
about the parts of the ~~tree~~ ^{trunk} to crown, bark,
Cambium, phloem and xylem. We will take a cross section
these parts do and why they are important to keep the
tree alive

How is a Glacier formed? The
rock layers will grow ~~falls~~ ^{falls} and form
to 30 meters from top to bottom are
the st. form, D. the pressure would be

What are you going to wear?
Wooded Park

with your woods-to leader!
LEAH THOMAS 537-2763

7/9/91 9am-2pm

What do you want? Field kit, H₂O!,
LUNCH + SUB
REPELLANT

Edmund's Park is 33 Acres yet we will not walk all 33. Yeah! I do hope however that we can walk a larger portion of it. Edmund's Park is basically a large woody area with a marsh in the middle. Think about what we may see there.

Some questions to ask yourself:
What kinds of trees will I see there?
How am I going to get there?

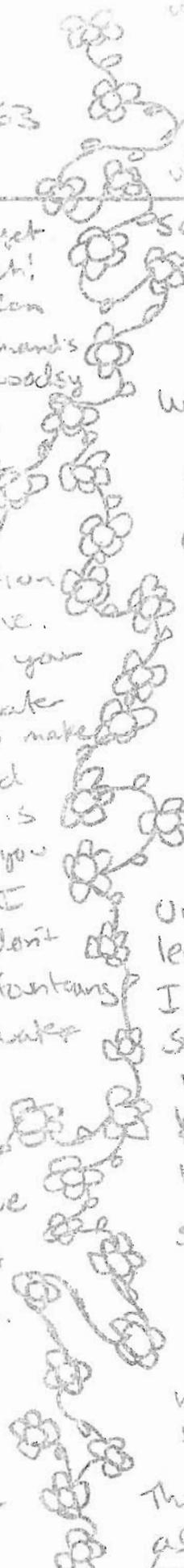
Well...
Figure out the trees for yourself but pull out your map and figure out where we are going and take a look at the area. Are there a lot of large roads surrounding it? Will the area be especially polluted or not? If the area is polluted where is it coming from and what could it lead to?

This week is water conservation week so we must be conservative. The water that you carry on your backs will be the ONLY water you are allowed to drink so make sure your canteen works and you have enough water. This is not meant to scare you, if you don't happen to have enough I will share with you, I just don't want you guys using water bottles or going anywhere else for water besides the group.

Once we get there we will be learning a few major things. I know that you all know pond succession so when we get there you can tell me what stage the pond is in. I know you also know what Forest Succession is so you can teach me that too. But here's my question:

A word about water testing: we will indeed be testing the quality of the water in Cabot woods. These tests should be done as accurately as possible because they will be given to the city and many other places for careful reading.

How do trees exist? what makes them alive and able to breathe? why are they green? Think of all the questions I've asked and try and answer them for yourself. we will find more



Leaders:

Jenny Casavant
(969-2776)

Alex Kraus
(964-7768)

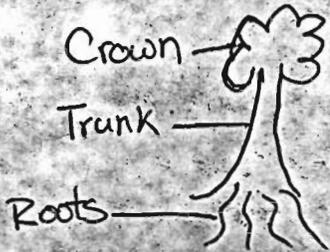
Trip slip # 2

7/2/96

9AM - 2PM



CABOT
WOODS

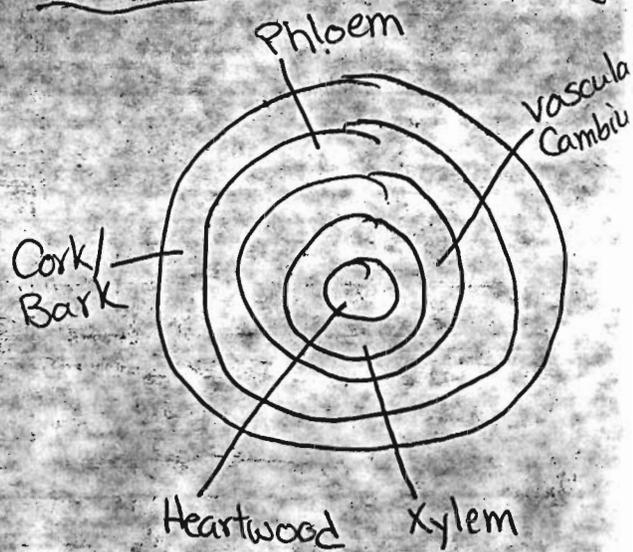


EQUIPMENT

Daypack
Notebook
Pencils
Lunch
Water
Boots
1st Aid Kit

Aww Yeah! This is our first real trip! Woo Hoo! Alrighty, we're going to Cabot Woods so take a wild guess what we're going to be talking about a lot; Right, trees. Cabot Woods is also called Edmand's Park because it was donated to the city by the Edmands Family in 1913. Hmm... What other fun things can we learn in Cabot Woods? Ahh. We can see what's left of Edmand's Pond (which isn't much). Why did there used to be a pond, but now it's going away? Don't know? Well we'll talk about it when we get there. Cabot Woods is also an asker. What in God's name is an asker? Well, we can also talk about that and other cool glacial and geological stuff.

The Inside of a Tree Trunk



CABOT WOODS

Place: Brown

Times: 9am - 2pm

Equipment: Field kit

Trip slip # 2

July 2, 1999

Leaders: Michael DYEN 244-0285

Jonathan R. May 527-1849

YEEEEEEAAA AAA AAA A A A H!

Our first real trip. Is not this exciting. I know I'm excited. Our first real trip at ENVI-SCI, it's wonderful.

Anyway, today we will be heading towards Cabot Woods. This will be a fun little trip. Cabot Woods is a cool place. It is sort of special as well, wanna know why? I'll give a hint, it has to do with ESKERS. Now, you may be asking your selves, "what can Cabot Woods possibly have to do with ESKERS?" Or, you could be asking your selves, what is an ESKER? Or, you could be asking your selves a zillion other questions that I could only guess at, but you should be only asking about these two questions. I'll help you out with one of these questions.

An ESKER is usually a curved ridge made up of gravelly and sandy drift, which is believed to have been formed by streams under or in glacial ice. Doesn't that make sense?, No... well we will make it make sense when we get to Cabot woods. I hope everyone is ready.



Alex Kraus

Page - 2 PM

(507-7768)

Jenny Casavant
969-2776

Cabot Woods

...also known as Edmands Park

Did You Know...

... Edmands Park was Newton's first woodland park given to the city by the Edmands family in 1913 in Memory of J. Wiley and A. Lawrence Edmands. J. Wiley was A. Lawrence's father

Equipment

- Backpack
- Field book
- Pencils
- Wrench
- Water
- Boots
- First Aid kit

Pond Succession

Ever wonder why that little pond in the middle of Cabot Woods is slowly disappearing? Now you know why!

The Stages -

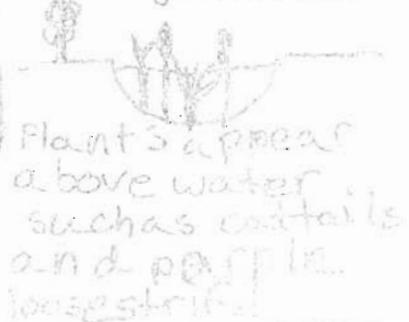
1. Bare Bottom



2. Submerged Vegetation



3. Emerged Vegetation



4. Temporary Pond and Prairie



At this point there will be water in the pond at certain times. Eventually there won't be water.

What's an Esker?

Another big Question. An Esker is formed when a river runs through a glacier and deposits material which becomes exposed when the glacier melts away.

The first real Trip. Yeah! A wonderful excuse to use all the many things you learned on the first day.

HOORAH!



A Happy Student
Exploring Cabot Woods.

Poison Ivy Alert

Tell do we all know what Poison Ivy looks like. If something has three shiny leaves don't touch it!



Trip slip # 2

Leaders: Pam Mahoney (527-5831)
Stacy Sanchez (965-4988)

Date: July 2, 1992

Times: 9AM - 2PM

Destination: Cabot Woods

Equipment: Day pack
Boots
Notebook
Pencils
1st Aid kit
Water
Lunch
Raingear
Extra bootlaces
Small knife
BUG REPELLANT

There are MANY different types of trees with MANY types of leaves.

SIMPLE: COMPOUND:



LOBED



(the space in between is called a SINUS)



ALTERNATE



PALMATE



PINNATE

Today we are going to Cabot Woods (Edmunds Park). In the middle of the woods there is a "pond" - but, it appears (is) filling in! Why is it doing this? Through a process of EUTROPHICATION - the "filling in of a pond" to become a marsh.

① LAKE



② POND



(plants begin to invade the water)

③ MARSH



(The edges are filled with plant life. The original lake is now much smaller).

④ CLIMAX FOREST



Make sure you bring plenty of water for tomorrow!
Also, wear comfortable socks (thick ones) and have enough moleskin to prevent blisters.

Trip slip #3

Leader: Gail (964-5857)

Date: July 5, 1990

Times: 9am - 2pm

Destination: Edmunds Park

Equipment: Field kit

Today we will be walking to Edmunds Park, a wood with a "pond" (also called Cabot Woods). This will be a decent hike so make sure your boots are comfortable and that you have plenty of mole skin and socks.

Eutrophication:

LAKE



No Bikes Allowed on Bridge

you may even see this sign!

"What is Pond Succession?"

- 14 mm

Eskers

The major formation that we will be seeing at Edmund's is the esker. An esker is formed when a glacier starts to melt from underneath and deposits a long snake like form resembling an upside down river bed.

Something completely different to think about.

Leaves

Simple: (unlobed)



(lobed)



(serrated)



Examples?

Compound: (opposite)



(alternate)



(palmate)



CABOT WOODS

Stacy Sanchez
Trip #2
July 2, 1993

Meet at Newton South.
Times: 9am - 2pm

Equipment: day pack, boots, water, lunch,
notebook, pencils, 1st aid kit, Raingear,
bug repellent

In Cabot Woods, also called Edmand's Park, we'll not only identify trees and wildflowers like you did yesterday. We'll also see a

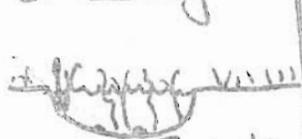
temporary pond and prairie there, one of the important stages of pond succession. Pond

succession is the process of a pond turning into a meadow. There are four main stages:

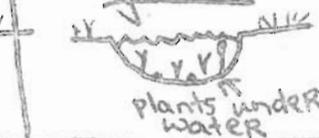
1. Bare-bottom



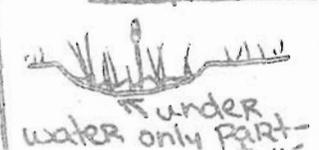
3. Emergent



2. Submerged vegetation



4. Temporary Pond & Prairie



What will we see in Cabot woods? Well, we'll see lots and lots of trees for one! This here is a tree trunk (duh!) But do you know what the different parts of the trunk are? You'll find out these parts today!

One of the things we'll be talking about at Cabot Woods is the esker there. An esker is a glacial formation; a ridge that was formed when a stream flowed through a glacier (or underneath of a glacier), leaving silt and debris. When the glacier melted the debris remained in a ridge. This ridge is an esker, and we'll see one of these at Cabot Woods.

Hi! Your leader today is me, Stacy Sanchez (965-4988) For your first trip out of South, we'll be going to Cabot Woods. It will be your responsibility to remember how to orient the map and to use the map and compass to get us to Cabot Woods. Then, in Cabot Woods, you'll have to find your way around just using the compass because there are no road signs inside the park.

Fun vocab word: Eutrophication: a pond, of few due to over-fertilization, which results in high algae levels. Do you think that human interference (by fertilization, detritus) is good or bad? or neither?

Esker formed by deposits from a river under a glacier



Cabot Woods

Trip Slip # 2

When:

9am - 2pm
July 2, 1999

Where to Meet:

Brown Middle School

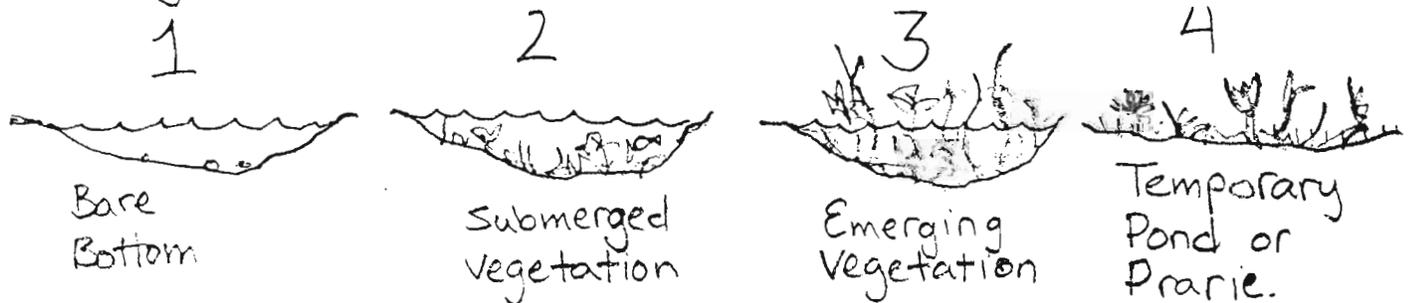
Leaders:

Jonathan Rivnay 527-1849
Mike Dyen 244-0285

Equipment:

Hiking Boots, WATER,
Super Yummy Lunch, and Field Kit
(Raingear, First Aid, Notebook etc.)

Hey everyone! this is our first trip! we will be going to Cabot Woods (if you couldn't tell by the title on this trip slip. Today we get to use some of the stuff we learned on the First Day, and we get to identify more stuff! Today we are also going to learn about **ESKERS** - which are a long ridge of sand and gravel formed by a stream in or under a glacier. Cabot Woods also has a pond, so we are going to learn about: **POND SUCCESSION**



CABOT WOODS

Place: Brown

Trip slip # 2

Times: 9am - 2pm

July 2, 1999

Equipment: Field kit

Leaders: Michael DYEN 244-0285

Jonathan R. May 527-1849

YEEEEEEAAA AAA AAA AAA AHAH!

Our first real trip. Is not this exciting. I know I'm excited. Our first real trip at ENVI-SCI, it's wonderful.

Anyway, today we will be heading towards Cabot Woods. This will be a fun little trip. Cabot Woods is a cool place. It is sort of special as well, wanna know why? I'll give a hint, it has to do with ESKERS. Now, you may be asking your selves, "what can Cabot Woods possibly have to do with ESKERS?" Or, you could be asking your selves, what is an ESKER? Or, you could be asking your selves a zillion other questions that I could only guess at, but you should be only asking about these two questions.

I'll help you out with one of these questions

An ESKER is usually a curved ridge made up of gravelly and sandy drift, which is believed to have been formed by streams under or in glacial ice. Doesn't that make sense?, No... well we will make it make sense when we get to Cabot woods. I hope everyone is ready.



Cabot

Leaders: Julie
964-7248

Danny
738-0269

Woods

Trip # 2

9-2 July 5, 2000

Meet @ Brown

Equipment:

Boots, WATER,
Yummy Lunch, field kit
including rain gear.

OKAY! This is our first real hop-to it trip. Today we will be able to use the skills that we learned on the first day, like using a map & compass. A cool thing we will see at Cabot Woods are called ESKERS. They are a long ridge of sand and gravel formed by a stream in or under a glacier. We will also discuss pond succession.

- STAGES OF POND SUCCESSION -

①



Bare
Bottom

(nothing there)

②



Submerged
Vegetation

③



Emerging
Vegetation

④



Temporary
Pond
or
prairie.

Trip slip #2

July 5, 2000

Leaders:

- Danny Tagoda
(738-0269)
- Julie Greenwald
(964-7248)

What to Bring:

- field kit
- H₂O
- boots
- lunch
- first aid kit

I hope everyone has a great 4th of July! When you return Cabot woods awaits! Cabot woods is a great trip to start off the year. We will be using a lot of the stuff we learned on Monday, as well as learning about Eskers, Pond successions + LUNCH! Come on Wednesday to learn more!

7/11/04 9-3

PLAN DAY 30-70

OUTDOOR SKILLS = CABOT WOODS!

Necessary stuff	optional stuff
map	rope, 2-3ft length
water	* Compass
day pack	watch w/ hands!
tools	small block of wood
etc...	

* THINK who you are & what you are doing
 know compass way
 orient
 know just w/ compass
 knots
 look at plants & how they grow
 make sun dial?
 plant i.d. gear
 all of these at back

If you have a
 watch
 compass, point
 at
 hour hand of
 the sun. S will
 be very between
 12 and the
 hour hand. It will
 be 150° away



SUN DIAL



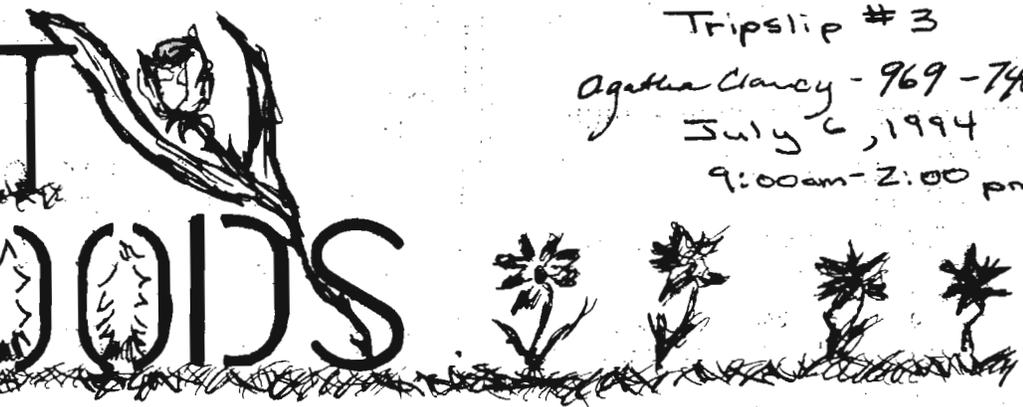
If you bring a block of wood about the size of the square on the left, you can make a sundial. I'll have errors and some parts to put the diagram on the block. The pointer that casts the shadow will be made of thin cardboard, a rt triangle w/ a 35° angle. If we were perfectionists, the scale and pointer would reflect our latitude (roughly 42°). But our sundial is so small that these errors won't be noticed. This is a crude two-piece. To use, set the dial to the North.

VERY IMPORTANT KNOTS



ALSO WE'LL MEASURE TREES

CABOT WOODS



Trip slip # 3

Agatha Clancy - 969-740

July 6, 1994

9:00am - 2:00 pm

EQUIPMENT: water, lunch, boots, notebook, pencil, first aid kit (bug spray)
 you will definitely need it.

Today we will be going to Cabot Woods. One of the things we will be talking about is forest succession. Forest succession starts either at marsh or bog stage or pioneering stage because pond and forest succession merge together. After these stages are midstage and then climax stage. After this the trees will die and forest succession will start again. What kind of trees do you think would grow in these stages and why?

In Cabot Woods there is an esker. An esker is a river bed of rocks. See if you are able to find it. What would cause an esker?

We will also discuss about trees. What makes them trees and what are the different shapes of leaves and needles that we use to tell them apart. To be a tree a tree has to be 13-20 feet tall. What other characteristics must it possess. We also could talk about the parts of the ~~tree~~ trees. Such as the crown, cork, cambium, phloem and xylem. We will talk about what these parts do and why they are important to keep the trees alive.

How is a glacier formed? The temperature in an area lowers and snow ~~falls~~ falls and forms lots of pressure. It has to 30 meters from top to bottom and it takes 200 years at least to form. As the pressure builds the ice at the bottom of the glacier melts and the glacier moves.

CABOT WOODS

Stacy Sanchez
 Trip #2
 July 2, 1993

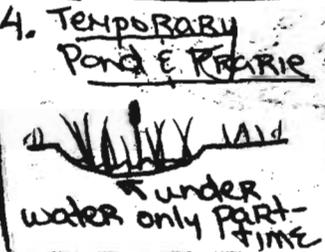
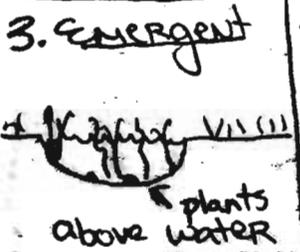
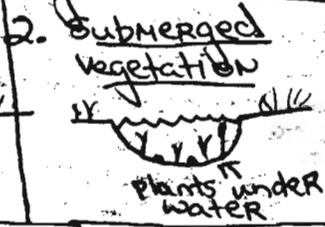
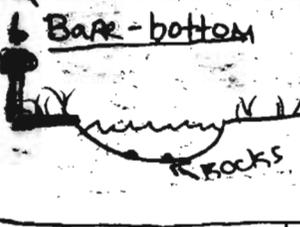
Meet at Newton South.

Times: 9 am - 2 pm

Equipment: day pack, boots, water, lunch, notebook, pencils, 1st aid kit, Raingear, bug repellent

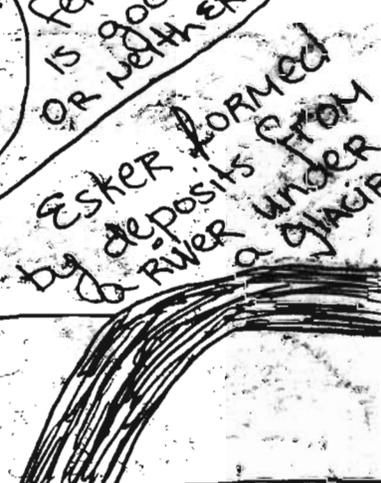
In Cabot Woods, also called Edmand's Park, we'll not only identify trees and wildflowers like you did yesterday. We'll also see a

temporary pond and prairie there, one of the important stages of pond succession. Pond succession is the process of a pond turning into a meadow. There are four main stages:



Hi! Your leader today is me, Stacy Sanchez (965-4988) is for your first trip out of South, we'll be going to Cabot Woods. It will be your responsibility to remember how to orient the map and to use the map and compass to get us to Cabot Woods. Then, in Cabot Woods, you'll have to find your way around just using the compass because there are no road signs inside the park.

Fun vocab word: Eutrophication: the premature aging of a pond, often due to over-fertilization, which results in high algae levels. Do you think that human interference (by fertilization, etc.) is good or bad? OR neither?



What will we see in Cabot woods? Well, we'll see lots and lots of trees for ONE! This here is a tree trunk (uh!) But do you know what the different parts of the trunk are? You'll find out these parts today!

One of the things we'll be talking about at Cabot Woods is the esker there. An esker is a glacial formation; a ridge that was formed when a stream flowed through a glacier (or underneath of a glacier), leaving silt and debris. When the glacier melted the debris remained in a ridge. This ridge is an esker, and we'll see one of these at Cabot Woods.

Leader: Rachel Kuller 332-5932

9AM to 2 PM

EQUIPMENT'S Field Kit
(List of 10 items)

July 6, 1993

TRIP SLIP # 64

CABOT WOODS...

... is a great place to learn about pond succession!

What stage is the "pond" at Cabot Woods in 7?

Stages are:

- PIONEER / BARE BOTTOM STAGE
- SUBMERGED VEGETATION STAGE
- EMERGING VEGETATION STAGE
- TEMPORARY POND & PRARIE STAGE
- CLIMAX or FOREST STAGE



LEAVES OF
③
LETTERS

Warning for
D. W. Ivy!!
A member of
the Sumac family,
RHUS Radicans
contains a highly
poisonous juice, which is
released when the plant
is crushed or broken.

The oxygen cycle returns O_2 to the environment, which then forms into many different compounds, like CO_2 , H_2O etc.
What other environmental cycles are we aware of?

"Edmonds Park" (Cabot Woods) was Newton's first woodland park, given by the Edmonds family in 1913 in memory of J. Wiley and A. Lawrence Edmonds. J. Wiley was Amos Lawrence's father.

"FOOD FOR YOUR FISH:"

An **ESKER** is formed when a river runs through a glacier and deposits material, which becomes exposed when the glacier melts away.

ESKER at Cabot Woods is great for sledding!

