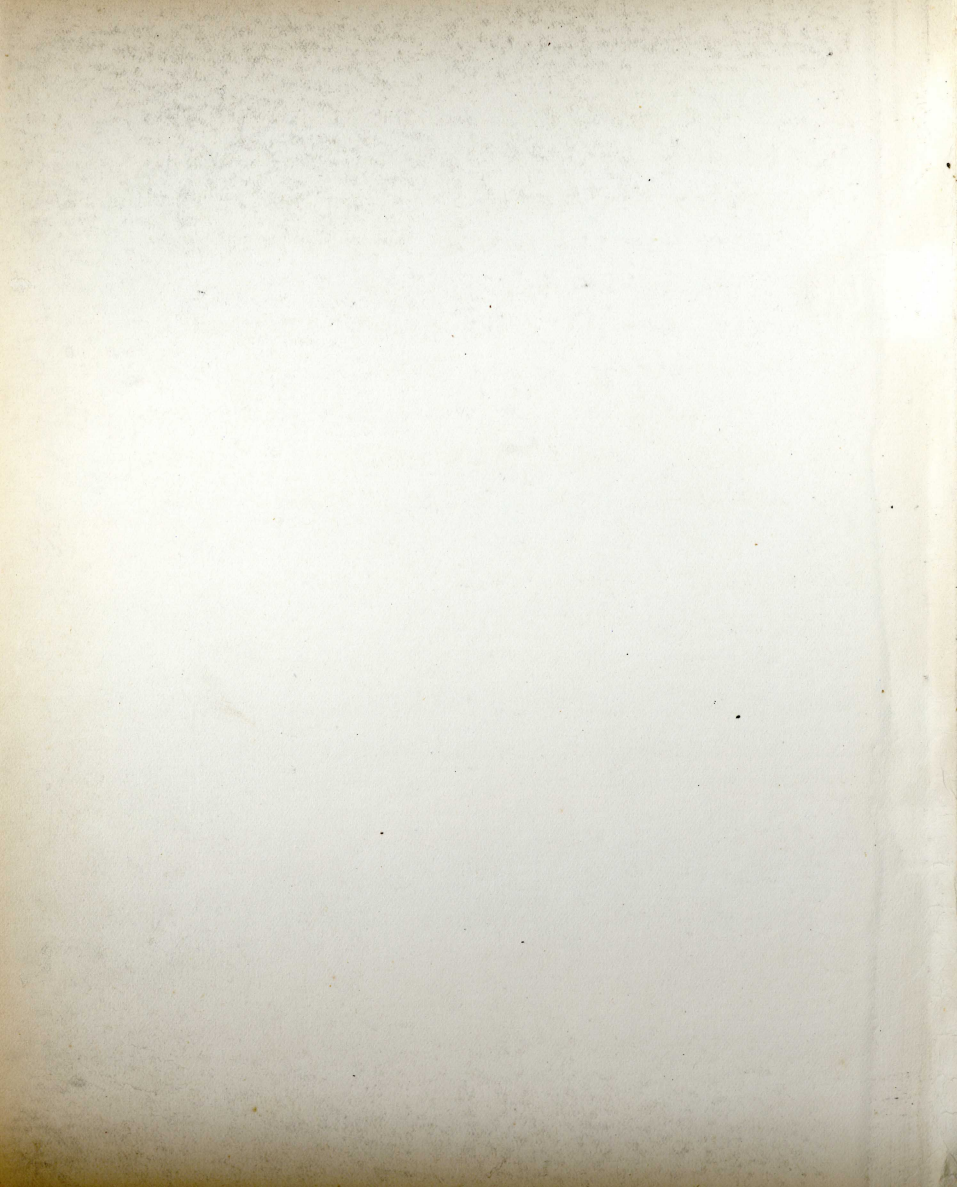
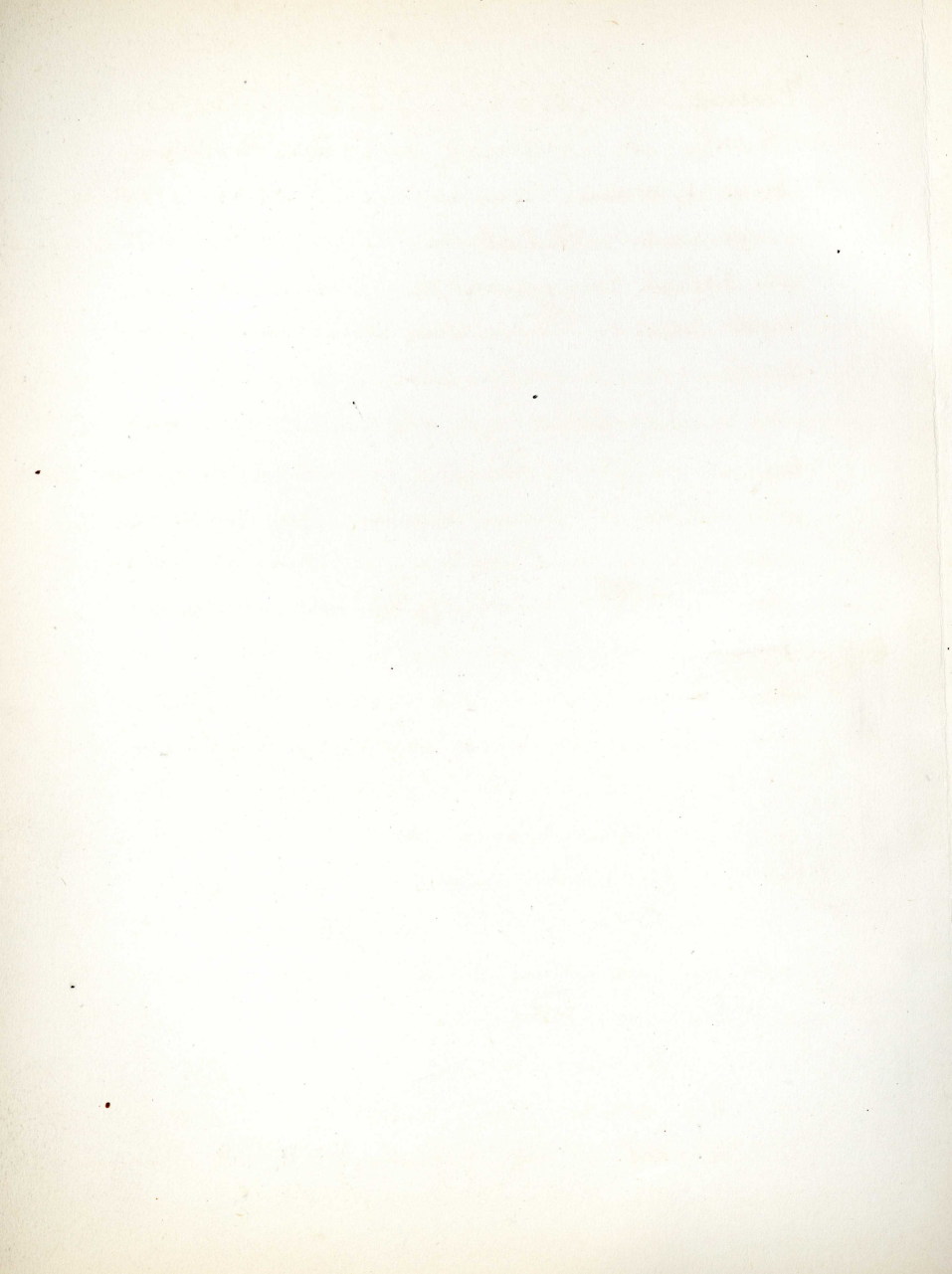


Collecting

Trips ¹⁹³²_{TO} 1934





Thursday Sept. 15 1932.

Went to Thrumcap with Dr Huntsman, Dr Gran
Dr Gran's son, Mackenzie, Kearney, and
Vladykov. Met at the King's Wharf and went to
the Eastern Passage in the Biology Boat.

Had lunch on board and then went to the
Eastern Passage Laboratories where we went over
the laboratories and collected the workers there.

After staying sometime at these laboratories
we all were taken over in the boat to
Range Pier and walked across the island
to Connie's pool. There was practically
nothing growing in this pool except eel grass.
Huntsman examined a lot of this. The stones of
the pool had a lot of black spots over them
that might be the thing over conditions of
some of the forms that appear on these
rocks a little later.

At the north western extremity of
the lagoon there was quite a growth of
Enteromorpha on the lower rocks left
bare by the tide.

The whole party walked as far as the
main exit of the lagoon, quite a number of
them getting their feet wet. There were only
two pairs of ~~waders~~ tall rubber boots for

the party. The algae at the main outlet were in the typical September condition. Chordarum was still present in considerable quantities but was old. The filamentous reds were covered with diatoms. No Sargassum, No Flea, No Chorda Dubia was present at the lowest level.

At this main outlet all except Huntsman and I turned back. We continued around the end of the island. Huntsman got quite enthusiastic regarding the possibility of collecting in and around the lagoon.

In the lagoon I found some Bryopsis.

At the South east corner of the lagoon we met two fishermen from Devil's island. Huntsman spent quite a time talking to them. We walked back along the shore.

Went back in the boat first to Eastern Passage Station then to King's Wharf.

As Fran gave me a lot of information regarding life histories of the algae.

Friday Oct. 14. 1932

Rented the Kupschle and D.W. and I went collecting -
Breakwater.

There was nothing out of the ordinary here. There was
a lot of *Monostroma* below the low water mark
Halosaccion. Plentiful and wiry. Very much branched
~~and~~ and some of the branches small, but no sign
of inflation. I was unable to tell whether or
not this was any new growth. The plants all
looked old and sort of moth-eaten but this may
have been merely the dirt in the harbor.

Chara, all gone

Charadaria one or two plants remaining in spots.

Rhodochorton plentiful but laden with diatoms,
Polyzoum etc. There was not much growth of
filamentous reds. Some could be seen deep down
but, we did not collect any.

Porphyra present in places but not especially plentiful
Fund normal

Alaria not present.

From the breakwater we walked to Point
Pleasant

The tide was fairly low and I was able to
make out on the first (*Laminaria*) reef. I was
hunting for *Adiantum* but did not find any.
Laminaria. Chiefly *Agardhii* apparently all ages

Chondrus was present in great abundance and some of it was fruiting.

On the second reef the tide was low enough for me to wade across to the second line of rocks and I carried D.W. over there too.

Dumontia. Absolutely no trace could be found. Ilea on the furthest out rocks and in the deepest pools there were small plants about three inches long and half an inch wide.

Elysiophon. With the Ilea there were a few plants four or five inches long.

Filamentous Reds. on the furthest out rocks and ~~on the~~ in the deepest pools there were ^{a few} small tufts of filamentous Reds. Apparently just starting.

From the Point we drove around to the Dingle and collected "Mmum".

Saturday October 22 1932.

Dorothy Webster and I went to Thumcap.

Breakfast at my house, Maryone up. 35. Fare to King's Wharf. Weather dull and cool but no rain late in the afternoon the sun came out.

On Mac Noh's Island the ground was pretty wet from the numerous rains and getting down past the search lights the mud was knee deep.

First we went to
Connie's Pool.

There was nothing growing here except eel grass. There was one piece of *Monostroma* about half an inch long, but otherwise the algal growth was non-existent. I have never seen the rocks in this pool so completely devoid of algae.

We were not content with the usual inspection of this pool but returned to it after we had been at its outlets, and went into using the water, examining rocks etc. Even then there was no evidence of any growth.

Noticing something cool I found that the seat of my trousers were thin.

After first inspection of Connie's pool we put on our top coats and left our kits etc in the shelter of the trees as we went along the barrier reef.

Lagoon

There was a rich growth of *Enteromorpha linza* at the North west corner of the lagoon. Otherwise there was nothing growing along the edge. To be sure of this I waded along at many places. The rocks were completely bare, except for the flat ~~and~~ and globular growth of Bluegreens.

Minor Outlet

Nothing growing. The rocks were covered with little ~~columns of~~ globular colonies of *Rivularia* also a flat expansion, that I could not recognize. We took samples of this into the laboratory ~~to~~ and it turned out to be a bluegreen tad, probably another of the *Rivulariaceae*.

Main Outlet

Ulea. There was some to be found but not very much, just ~~an~~ ^{an} occasional and ~~to~~ scanty growth. Some was $\frac{3}{8}$ inch wide and 6 inches long, but most was about 3 inches long.

Zeytonophora

Scarce like the *Ulea* and most of it not more than 4 or 5 inches long. But some

was as long as 8 inches and contained

Polyzophias

There were a number of small red tufts of young plants. We took these into the laboratory for identification. They turned out to be; -

Enteromorpha Linza

a few small plants along with the *Fleca*.

Monostroma

none ~~to~~ observed.

Branched Filamentous green. (one tuft)

Probably a *Cladophora*

Spongomorpha arcta

a few small old tufts, but very rare.

Laminaria Agardhii

a number of small old plants with decayed broken edges.

Chordaria

a few clumps of old string like plants

Chondrus

As usual

~~In general the growth was very scanty~~
Dumontia

We hunted everywhere but could find not the slightest trace of any Dumontia. We even examined and scraped the rocks for hold-fasts:

In general the growth was very scanty.

The tide was low at 7.10 and we were collecting at 10. At this time the tide was starting to run in at every outlet and this interrupted our collecting.

When we got back to our beds in the trees there was a man there with a gun. He said he had taken a shot at a loon, but missed.

The fire wood was very wet but we got a fire going. Dorothy said she was not sleepy, and then went to sleep for two hours. We caught the mid-day duty boat back. 35 tax to Loh, and examined the material on the rocks. The band was gathering in the Murro Room when we got there. It was going out to the football match.

Saturday Nov. 5.

1932.

D.W. and I went to Thurmap. This was the morning after the dance at Sheriff Hall.

Breakfast at my house. Mayalis got it ready. D.W. arrived at 6.30. 35. Taxi to Duty Boat.

At Ferry Wharf I left message for Moore regarding Biology Club trip the next day. On arrival at MacDiabs. we went right to Connie's Pool. Walking was not so muddy as the last day.

Connie's Pool.

Nothing at all growing in this pool except cel. grass.

Put boots on in the usual place. The day was dull but warm.

The level of the lagoon was lower than I had ever seen it before. The main outlet was only half its usual width and at first I did not recognize it. Water was running out of only one other outlet, and only a little trickle at that.

Minor outlets

All except one completely dry.

Main Outlet

The Rocks were completely exposed everywhere except for about thirty feet at south end of outlet where the water was about 10 inches deep.

The growth had greatly increased since last visit

Dumontia

The main object of the trip was observation of this species. A few small but flourishing plants were found at both the main outlet and the largest minor outlet. This is the first observation for this season. The plants were 1 to 2 inches long and a deep purple colour. The ponds were much contorted. Collections were made, but much hunting was necessary to ~~find~~ locate these specimens

Pha

More plentiful than on Oct 22nd but still not abundant

Seytonia

Quite plentiful in spots, forming dense clumps and often averaging 8 inches long

Charadaria

Old fronds still present.

Laminaria Agardhii

A large number of fronds about a foot long.

Alaria esculenta

None.

Sarg.

One large old specimen heavily infected with epiphytes

Chondrus

A rich growth everywhere and no sign of any *Monostroma* growing on it. The growth appeared to be exceptionally luxuriant.

Hormisira

Fairly dense on a few rocks. Collected some for the class.

Bangia

A little present with the *Hormisira*

Porphyra

Some young stages observed.

Enteromorpha Linza

More plentiful than last time. Collected some for class.

Monostroma

None observed.

Spongomorpha arcta

Observed but not common, Collected some for class.

Polyzoria

This was the conspicuous feature in the change of flora. There were small bright red Polyz's everywhere. It was most striking to see these little plants starting up all over the bottom and from the crevice of every rock.

Chaetomorpha

Some bleached floating tangled masses

Before having lunch I hunted for path back through woods but did not find it.

Lunch in grass place where deer resides mightily liked. D.W. slept soundly and would not wake up. Said she wished the boat did not go till 5

On the way past the fort we noticed that they were building a ~~gar~~ garage over one of the big guns.

Walked back in a little over $\frac{1}{2}$ an hour.

Washed Dumontia on arrival at Garrison Pier. 35 taxi to lab.

Changed liquid on Dumontia again.

The reason for the very low level of the lagoon was apparently the low level of the high tides for the previous four or five days, for the low tide level was not below the usual. Apparently the lagoon had not been filled up for some days.

Sunday Nov. 6 1932

Biology Club went to Thrumcap.

It was a marvelous day.

The following went

Miss MacKeen

Jean MacKay.

Probel Cox

Dorothy Webster

Lerna MacLeod.

Marjorie Ball.

Peggy Bell.

Wilmer Fraser

Colder Fraser.

Don Ross

Dawson

Earl Heltz.

Boyd Coady

Graham Simms

Bob Atkins

Kearney.

Jimmie Bill

#113.

The charge for the boat was \$10.

Miss MacKeen was on time but Kearney had gone home to change his trousers

and kept us all waiting. Left at 11 AM and arrived at Range Pier at 11.37.

Walked to usual spot. where we decided to have lunch in the beach the day was so warm.

D.W. I, Bob Cox, Don Ross and I got the water boiling while the others went to Thumcap.

We got the water from the well around it and hauled it before letting any one touch it.

They then ~~for~~ provided the following for lunch. Vegetable Soup, Hot Dogs, Beans and Coffee. They had brought frying pans and the big aluminum pot.

Lorna MacLeod went to sleep as soon as we arrived

Started back at 3.30 boat 4 P.M.

Took tape to lab. Men Macken, D.W. Wilmer Fraser, Jimmie & myself.

While at Thumcap we made a few observations. There was not much washed up large *L. Agardhii* some *L. digitata* and some old *Alavia*

Temperature of water in surf $9\frac{1}{2}^{\circ} \text{C}$

" " " " lagoon 11°C

We hid a bucket beside the bottles.

Sunday Nov. 13. 1932

D.W. and I went to Thumcap.

Breakfast at my house. As Hazel & Winthrop were staying with us I asked Hazel to drive us down but she could not get her car started. Left my house at about 9.10 and left the wharf at about 9.30. D.W. spent some time hunting for a place where she could get some biscuits.

On the way down we saw the duty boat coming back, and learnt for the first time that it runs on Sunday.

We arranged for the boat to come back at 4.30

We walked through the woods to the range but from there on we went around the beach.

At the end of the island I made a collection from the well. The growth there turned out to be *Tribonema*

There was very little wash on the beach although there had been a big storm, but the surf was still very high. There was a strong wind.

Main Outlet

The water was deep, and the current running fast. This with the wind made observation difficult. However, the chief object of the trip was to see if the *Dumortiera* had increased with great rapidity. It ~~was not~~ was possible to see that there was no great increase in the amount of *Dumortiera*. Two collections were made and the plants were about the same size as the week before. Thus there had been no sudden and rapid increase up to this time.

Other conditions were not changed sufficiently to be worthy of note.

~~The~~ Old Chardana was still present. *Dumortiera* was collected in the the minor outlets as well as the main outlet.

No sign of any growth in either the lagoon or Connick's pool.

Before lunch I made a collection from the deer's drinking pool. This turned out to be a rich culture of *Zygnema* and later developed some *Peridinium*.

We had lunch at the deer's abode and caught the boat at 4.25. The boatman charged me \$6, that is \$3 per trip.

On arrival at Halifax we took the

street car to the laboratory and look
care of the material.

On the island we notice that the ~~gas~~
garage over the gun was completed, also
we tried various of the paths from the
Fort end but they were all grown in.
On the way back in the heat we changed
the water in the thermos twice.

When I got back to my house the
Dougherty and the Winkler B's were having
tea.

Thursday Nov. 17

1932

Sarah Webster, Margaret Butler, Miss ^{Johnson.} Jackson
& self went to Acadia in the Frontenac.
We left shortly after lunch and went up in
1 hr & 57 min. Weather slightly rainy.

At Wolfville, I borrowed a book. M. R. B.
had a long talk with Bains, I gave a talk
before the Seminar. Perry Bains, & Roscoe
entertained us for supper. I got a piece of
metal in the tire of the car and had the
outer casing patched. Staided for home in
the dark & rain. Took nearly three hours
to get back. Struck fog. Everything O.K.

Saturday Nov. 26 1932

D.W. and I went to Thumcap

Breakfast at my house. Went down to duty boat in Frontenac and left it on the King's Wharf. Both Janet and Jimmie came down while I was there at breakfast.

Fine day to start with but it got cloudy on the way down in the boat. There was a very high wind from the South West.

The sun rose with a glorious sunrise as we were driving down to the wharf.

On arrival at MacNab's we walked directly to the collecting grounds.

Connie's Pool

Nothing growing, even eel grass appeared to be less!

Put on boots in the usual place and ate Dorothy's peanut butter sandwiches. While we were putting on our boots we observed enormous flocks of sea-gulls on the rocks near the (main) outlet.

By the time we were walking along the reef it had started to rain! The tide was only about half out, thus there was

a swift ^{deep} current at every outlet. But we had brought a glass dish and by means of this we were able to observe the growth very well.

There is no need to give the ordinary forms in detail, all members of the Autumn crop had increased in size and abundance.

Rhodymenia palmata.

A number of young plants of this species were observed. They were about four inches long.

Dumontia filiformis

Collections were made, but the plants were neither abundant or large. They were observed in both the main and minor outlets. In the main outlet they were observed on the lagoon side at the south end. The plants averaged about 2 inches long, but there were some as long as 4 inches. By the time we reached the main outlet it was raining hard.

A number of water temperatures were taken

Main outlet 6.1°

Ocean near main outlet 7.1°

Minor outlet 6.4°

Very quiet, shallow place near shore in lagoon between outlets 6.9°

Temperature of air 9°

Lagoon

There was no growth around the edge of lagoon.

By the time we got back to the park it was not raining so hard. I hid the glass dish with the bottles and collected a jar full of water algae and moss from the well where the deer drink. At first we thought of trying to get inside one of the military huts to get out of the rain, but we found a good sheltered spot under the trees and had our lunch there.

The rain continued as showers.

There were a large number of stripes of *Laminaria longicervis* washed up on the shore. Waited for boat in waiting room and talked to two soldiers and a civilian who were there.

Saw Jean Webster and her officer friend on arrival at the King's wharf.

Frontman O.K. Took material to laboratory. K. Hibb, Grace Murray, and friend were working in lab. when we arrived.

Drove Dorothy to Hall, went home to a hot bath and sleep. Hot bath felt mighty good.

Saturday Dec. 10th. 1932.

D.W. and I went to Thurman.

Breakfast at my house.

Arranged the night before for a boat to call for us at the Range Pier at 4.30. (\$3.00)

3.5 taxi to duty boat.

Going down in the boat the Captain named Faulkner came into the cabin and spoke to us for quite a while regarding sea plants and animals brought up attached to cables. He had worked on a cable ship.

The duty boat called at Jones Point first then at Garrison Pier.

On the way down the island we investigated the hut possibilities. We got into the enclosures around the gun emplacement huts and Dorothy found that the window on the east side was open and a ladder led up to this window in one hut. Then we found the old hut between the ranges and investigated the possibilities of its verandah. We went down to the end of the island through the woods.

There was a thin covering of snow that had just fallen, this covered up the algae on the beach and also made the rocks very slippery.

The bucket that I had partially hidden when

down with the biology club had gone.

On arrival at Little ^NThumcap ~~we~~ we changed our hood in the shelter at the south end and also ate Dorothy's sandwiches.

Before reaching the main outlet I investigated the little bay in the lagoon that lies between Little Thumcap and the main outlet. It is an outlet at high water. There we found a large bed of well developed *Dumontia*. ~~When~~ We made quite a large collection. Taking all varieties of plants in to laboratory just in seawater. (In addition to those preserved in Chron-acetic).

Main Outlet

Dumontia

a few plants were observed but not many

Laminaria & *Agardhi*

The fronds were three or four feet long in certain cases, pulled and often broken.

Ilia & *Syrtoph*

Many large and dense clumps.

Dumontia & *Harmisus*

↑ Plantiful (?)

Chordaria

(very few)
Still, some old fronds remaining.

Filamentous Reds
growing large.

Other forms like Chondrus, Fucus etc as usual.

Minor outlets

Dumontia observed in two or three places, apparently more plentiful than in main outlet.

Lagoon

Still no sign of growth around the edge.
The Enteromorpha linza at the N.W. corner was fruiting abundantly.

Conner's Pool

Nothing growing except at the north end where the water runs out. There we found one little clump of a young green, either Enteromorpha or Monostroma.

As there was snow on the ground we decided to have lunch under the trees where it was fairly dry. I had taken the inside of my old bed-roll so we could sit down. I left Parally and

lunch, and went back for water from the well from which the deer drink. (Peridiman culture also, fuzgenema). The well was frozen over but with only thin ice.

Caught boat at Range Pier at 4.15. Took material to laboratory via street car.

During the next few days we examined the Dumontia very carefully. It contained every kind of plant, small, large, branched, unbranched, etc. But we could find no trace of any reproductive bodies of any kind.

Friday Dec 16

1932

D.W. and I collected on Breakwater & at Point Pleasant. I wanted to get first plants for the examination in Botany 12. This ~~to~~ ~~to~~ took place the next day. It was bitterly cold. We walked both ways, going first to the breakwater.

Nothing especial observed on the breakwater. The side branches of the Halosaccion appeared to be longer broader and more numerous.

At Point Pleasant

Fucus *platycarpus*

We found only one plant with a conceptacle attached but it was getting dark.

Dumontia *filiformis*

Before it got dark Dorothy spotted one small plant of *Dumontia* it was a little tuft with fronds about $\frac{3}{4}$ of an inch long.

We walked back through the park and had some hot tea when we got to the lab.

Tuesday Jan. 9, 1933

Dorothy Webster and I went to Thumrap.

Called up Levin from the Forest Building and arranged to be taken down in the Fisheries Station boat.

Left the King's Wharf at 11. A.M. Cloud Barrak was handling the boat by himself. There was a strong northerly wind blowing and quite a sea running. We anchored at the Garrison Pier and Cloud took us to the wharf in a dory. We had some difficulty in landing on account of the waves. Arranged to have him call back for us at the Range Pier.

Went direct to the collecting and ~~took~~ changed our boats at the usual place

N. W. End of Lagoon.

There was a patch of fair sized *Dumontia* in the shallow water at the N. W. end of Lagoon.

The *Entromorpha* at this spot was very little changed.

Main Outlet

Collected what I thought was *Bangia* for the class. But it was something else. I should look for this next year.

Chordaria. Some old plants still present at northern edge.

Dumontia. Slightly more plentiful than on

December 10th but not yet growing in abundance.
Laminaria Agardhii, plentiful, long and frayed.
Filamentous Reds, large and plentiful.
Flea & *Eurytemora* plentiful
There was no great observable change in most forms.

Spot between Main Outlet and Little Thrumcap.

The *Dumontia* was much more plentiful at this spot. So we made the collection there, also we brought in some still attached to rocks and tried to grow it in the laboratory.

Later on examining ^{all} this *Dumontia* in the laboratory we were unable to detect any fruiting bodies.

Lagoon.

All along the edge occasional clumps of small *Dumontia* plants could be found.

There was no ice anywhere. Collecting was difficult on account of the high wind. Once when bending over Palmer got

blown into the water. Collecting appeared to be especially cold for the hands.

Lunch when the deer sleep.

Started for the boat at 3.30

Caught boat at Range Pier at 4.15

Clada had another man with him, who took us off in a ~~very~~ dory, but still we had some difficulty on account of the wind.

At Mr. King's wharf we saw Shorty Dyer drive off in his car just as we landed.

I went in and thanked him.

Took the street car to the lab.

In the lab we put the Dumortia on the stones in the window and the rest of the Dumortia and what I had mistaken for *Bangia* in a dish.

Tuesday February 7th 1983.

Dorothy Webster & I went to Thurman.

Took Moore's boat to Foes.

The road beyond the Garrison Pier was almost obliterated.

At the place where we usually change over boats the log on which we used to sit and under which we had the bottles hidden was completely washed away and the bottles were smashed. I found the remains of the dish away up in the woods.

The place where *Enteromorpha* grows at the N.W. corner of the Lagoon was covered with ice

2nd Outlet

Dumontia long and plentiful in this outlet we collected it here on the way back.

Desmarestia viridis plentiful

Monostroma starting everywhere

Main Outlet

Dumontia fairly plentiful

Scytonoson long and large.

Pha plentiful and starting to go to pieces.

Desmarestia viridis present.

Polyzophoria long and healthy

Spongomorpha in great quantities

Main Outlet, continued

Hormosira present

Bangia (what I ~~at~~ mistook for *Bangia*) present and turning brown.

Laminaria Agardhii plentiful and long.

Fucus evanescens fruiting everywhere

Asciophyllum large, receptacles almost ripe.

Rhodoglossum in surf with abundant young growth from old fronds.

Lagoon.

Dumontia viridis plentiful

Syrtophora } plentiful but not as rich as
Idea } in 2nd Outlet.

Dumontia }

Dumontia was not collected near little thumcap because it was not as large or as long as in the 2nd Outlet.

Looked at Connie's Pool on way back but could see nothing on account of the ice and because of the mud stirred up when ice was broken.

There was a fair amount of wash on the shore
this included

Chondrus

Alaria

Agarum

Laminaria Agardhii

etc.

Collected 4 bottles of water from well where
the deer drink.

Lunch on beach and built a good sized fire.
A boat entered the lagoon by the main
outlet while we were eating our lunch.

We caught Moore's boat at Range Pier at
exactly 4.30. On the way home Moore picked
up a passenger from one of the Government
boats and as a result took fifty cents off
his price to me.

Tues March 7

1933

D.W. & self went to Trumcap

Breakfast at my house

35 Taxi to boat

On the way to boat we saw Dal. girl running down South St
Florence Hewitt was on the duty boat going down to
her school on McNab's Island.

Duty boat called at Poes first, we got off at the
Garrison Pier.

There was quite a lot of snow on the ground.

Outlets

Dumontia very plentiful everywhere

Desmarsetia viridis plentiful

Bangia appearing everywhere. This was quite
different from what I took for *Bangia* before
the material that I mistook for *Bangia* had
turned brown and was decaying, and I could
not find any healthy strands from which to
identify the former growth.

Ula and *Syrtomon* large and plentiful no
change except being larger.

Monostroma in a very interesting small
halloon stage covered the rocks everywhere.

Dulse in a form that was apparently new
growth was quite plentiful in the main

outlet. It was most plentiful near the breakers but there was quite a lot of it higher up in the shallow water.

Chorda Filum. A few young plants present these were dark brown in colour and covered with a dense coating of hairs. These were spotted first by D.W.

Around the edge of the lagoon the Dumortiera was plentiful

The bed of Entromorpha at the N.W. corner of ~~the~~ the lagoon was still present.

Lunch on the shore.

After lunch a man landed in a boat to collect wood. I gave him a hand. It took 40 min to walk to the boat the walking was very hard.

In the laboratory I neglected to put the main collections in (chiefly Dumortiera) in killing fluid. The next day they had all gone bad.

Before

After lunch I hid another glass dish under a spruce tree near where the deer drink.

Sunday March 18 1934

Went with group of students to Thumcap.

Those who went were

- Donalda Douglas
- Isabel Mackay.
- Isabel Page
- Madelin Page
- Aileen ~~Meagher~~ Meagher.
- Arthur Wright
- Harold Wright
- Bloss Le Page
- Gimmie Bell
- H.V. Bell

Left Met Wright at Laboratory at 9.20 and collected dishes etc which Wright put in my pack sack. Wright carried this to ferry Gimmie went with Wright. I took a tram car left wharf in Moore's boat at 10.20. Wright beat Moore down to eight dollars for trip landed at Naval Pier. Walked along shore to range across to lagoon, over me to south end of island. A strong wind was blowing so nobody went out to Thumcap. Had some trouble locating a good place for lunch. Finally built fire on top of cliff. Day was dull and a fog obscured

the view. Fire not very big. Gimmie got wet and cold. Wright took him for a walk. Later he felt better when he built a snow fort and had a battle with Donald and Isabel MacKay. Started back about 2.40 to catch boat at 3.20. Walked around the shore on east side of island. The woods were full of snow and ice everywhere. My knee hurt me quite a bit. Gimmie got very thirsty. I could not find the well. Some went to ferts for water and brought back a cup full. Gimmie drank it all. Boat called for us a little late. * For both trips he used boat with ~~not~~ small bow cabin. Fairly rough crossing harbor. LePage took pack back to college. Gimmie & I went straight home via street car.

Wednesday May 23 1934

Myself & Vera Farcy collected on the breakwater.

~~Collected~~ A dull day with occasional showers but not cold. Drove down to equator in Frontinas, and took large flasks for sea water I took top boots. V. F. did not.

Collected *Fucus vesiculosus* for Güssow also *Dulse* and *Enteromorpha compressa*.

Brought back samples of various sea-weeds for V. F. to learn names.

✓ The *Chorda Filum* was quite plentiful and was still covered with the brown amulohine filaments

✓ *Dulse* was very scarce and small.

The *Laminaria Agardhii* that usually formed such a dense growth especially at the end of the break-water ~~had~~ was non-existent.

✓ The *Holoserium* was present but not so plentiful as sometimes

The complete absence of the *Laminaras* gave a very unusual appearance to the growth.

Thursday May 24 1924

While down visiting Father for the holiday, I collected some *Fucus vesiculosus* and *Ascophyllum nodosum*. They were each fruiting, and apparently just about ripe. That is more advanced than the plants of these species collected the ~~two~~ day before on the breakwater at Halifax.

Tuesday June 5th. 1934

Went to Thumcap with V. Facey.

The duty boat left early and did not come back to the Garrison Pier till late. It was nearly 6 before I got back to the lab.

The most striking thing noticed during collecting was that the Chondms in the main outlet was practically all gone. The rocks that were formerly covered with a dense mat, were perfectly bare. The purpose of the trip was to get material for dry mounts to be sent to Ottawa. We got these. See No's A.305 - A.307

Monday Sept 17, 1934

Went to Thrumcox to get Chondrus for Miss Butler. Miss Butler went, and also ~~the~~ Madeline and Isabel Page. The duty boat left at 8.15 and returned about 9.45 at Garrison Pier. Artillery officers were on board on both trips.

The eel grass in Connie's pool was growing in quite large patches.

The Chondrus in the main outlet had started to grow, but the fronds were very short. It was difficult to get enough material.

The bathing was good in both the lagoon and in the surf. The water was warm in both places. I went in. I did not take my rubber boots but wore my bathing suit.

$$\begin{array}{r} 325 \\ 162 \\ \hline 163 \end{array}$$

$$\begin{array}{r} 92 \\ 70 \\ \hline 162 \end{array}$$

