

Leucis
gull

1952

February 19

Amos. Cloudy. Feels like rain. Relatively warm.
Gulls fly up as I am. On perch. Alarm calls.
Quality subsides. Set.

violet burst of ...
fly gulls on perch ...
No posturing. Neck usually a little ...
on ground higher pitched & lower ...
huddle ... No
flying wild gull ...
posture ...
another ...
gulls starting to come down ...
head horizontal. Gull ...

little contesting ...
start out high ...
then several ...
disputations ...

Both gulls get away from me.

Other gull then comes in and away with it.

(Particularly looking for a second)

Its capture not possible by itself - but

if you handle with a net

apparently impossible to capture.

Gull in the air with wings spread

both sides of jaw hangs in air

in background.

Gull walking around in other posture.

It can't raise neck and the head full

of air.

At 8:30

Gull defects this posture, apparently

directed at chicks.

but perhaps at neighbor

gull. Combination of

V & F probably followed

by both.

Heathbell moves away at this

adult gull steals food from juv. Both

responds by one FB cry.

Several ruffs. Actual pecking. Hungry

Faint handwritten notes at the top of the page, possibly describing a procedure or observation.



...making part of which it
was modified U

...is as often as made after you not
...at beginning of scuffle
...?

...paddling in pool

...outlet of ...

...around a ...
...by long ...
...circumstances

Leaving ... 9.00 a.m.

... ..
... ..
... ..
... ..
... ..

July 20

June 7:05. Clear

147



Either I think also I saw a lot of
... ..
... ..

In F, the work is not as long as in B. G.
... ..

... ..
... ..
... ..
... ..

The measurements
...
...
...
...
...

The birds were very parallel. U - 7 feet west
One bird looked straight away from the other,
...
...



11



Fountain Pen
Bond



Suitable for all
Fountain Pens







Saturday
March 22

Arrive hide (out 2-00 hide) 3:30.
Very windy. Birds on water & on land

Gulls go very high as it takes a long
time to get into hide. Hear on water, for hide
Others apparently gone

Some gulls on water 3:37 They go
very high

As birds when they first came to the
beach. Due to weather? Due to late in
day? 3:47. Finally coming closer 4:05?

A

Sunday
March 23

Leave track 5:30. Gulls go
very high

Colder than last few days.
Cloudy

Coming lower 5:42

Have plane in air 5:51. Then very
much lower still. Starting to land 5:54
Plane 5:55. Quickly breaks up.

All ~~off~~ down, except noise on
mainland near birds.

Interesting copulation attempt.

♂ stands by ♀. ♀ does PB, pecks at his bill,
not at all vigorous. ♂ stands beside her, HB.
HB very weak, practically no bobbing, but
continuous. ♂ puts on ♀'s back (HB not
increasing before hand), stands there, continues
HB as before, falls or is pushed off, at first
copulatory movement. ♂ flies off 6:03

March 23 ~~19~~

Buds on mandible left of hole.
Circular flight, with ventral in between
open by time I turn around

A pair further away. Same pair

Bud right in front hole. Pumping. U.

Shies back with ♀. Mutual ♀ flies off
at least 3 buds in front hole. Flight between
2. All fly off.

One back. Sweats. F. Ch. at
flying buds, walks right in E. Walks back pumping
still in E. Preens headshake. U - semi F at
flying buds. Preens. Sweats. Headshake 6:13
in E. Relaxes. Walks right. U at flying
buds (come off at them). Headshake. Preens.
Walks right, quite some distance. U. Headshake.
There has been another bird, far to the right,
who flies off as this bird (A) approaches.
A starts relaxed, headshake, relaxes.

March 23 III

A walks back left. U & means. (I think this is bird with station in front of hill (both stations probably). Standing. Preening. Headshake followed by rubbing ~~wing~~ ^{head} along wing. Seems to have stiff leg as walks left. Stands R as bird lands. Bird F's back. Third bird lands, flies off. Two birds in front of hill. Several mutuals (some at flying birds). New bird, ♀ with white spot behind eye, flies off. It does too.

A back waved. G.C. (HF at flying bird). Stands in E. Goes left. Gets involved in neighbor's dispute. F. Then HF when completely alone, after neighbors have flown. Flies. Back. Running left in E. ♀ lands. Mutual (alternately, ♀ up from F last). ♀ walks in E. Several G.C.'s by both. ♀ flies up. ♀ back. Mutual. ♀ flies up, near with

March 23 IV

C₂ had no white spot, different ♀)

angry at flying bird (♀ definitely more aggressive)
Several confused disputes.

A alone now c: 23 flies off quickly
attack call. Back seems to prefer left front
station. Seems unimpaired. Dispute left neighbor
who chokes in return - general disputing far
left, much F-ing. Can't tell which, if any, is
A, gone now anyhow.

Bird lands right of. Driven off by another
bird, A presumably. G.C.'s runs ~~way~~ left to
station. Rather weak. G.C.'s in E. Feet at
ground. Walks further left. All other birds left
seem to have gone. Drives off landing bird
with V-F-E-(HF?) flies up. Back
right. Walks left in E. G.C. with HF.
G.C. as goes further left (has an enormous
tenton) flying very far left G.C. - very partial
constantly. Notch comes down. Walks right in E

March 23 IV

6:40 Flees up

(Birds on mainland do not seem very active, as a rule, today)

Watching pair on beach. ♂ parades around in E. Chas. Choke. Once peck at ground (as this cut, mov. choking?; sometimes tail goes up). ♀ follows, one or two FB, sometimes in E; sometimes relaxed, then flees up.

A back in front of hole 6:43 Walks right. Flees up. Back raised. Call ———
of C. HF at flying birds. Again Walks left. Flees up. Back raised. Walks left. F with one neighbor. Repeated A does E-HF. Second neighbor flees off. Just neighbor, ♀, FB;

A in E. Pecks at ground. Flees off

Back in front of hole with ♀ (same ♀, I think). The FB's, follows him as he walks along in E. Both walk left. Mutual F.

March 23 VI

A above B-HF (aggressive, bill pointed down) Both relax, Preening. Both ♀ at flying buds. ♀ flees off. ♂ remains quite relaxed. Occas. weak ♀ at flying buds. Dredlands. A-U-F Both fly up.

A back. Cally.

Colony not very noisy today. A walks around. ♀ C. ♀. Hubble at sunset on ground (OCB movement). Walks left 7:02. ♀ lands. Mutual. (♀ out of F later). ♀ FB (rather submissive). ♂ Cpr. ♂ walks away in E. ♀ m. ♀ flees up at another bird, ♂ follows. Back practically immediately. Behavior much as usual. Sudden flees up.

Barb's "Not Approach" call. F. Huddle ♀ c. relaxes, walks along. Flees up. Back walking busily. ♀ c. 2 birds land. Immediately

March 23 VII

fly up as A F's. (about orientation
After G-C's A seems to be mostly facing
South, most gulls fly over head. A does
not seem to re-orientate himself to face any
particular bird. Just does as it comes)

Orndorff's A. Mutual \nearrow \searrow New bird

flies off, A does same a moment later

Pair left. A & G? Mutual. G does
another F. In semi-E, humping. G walks

a little, in E, head bent away from G, flies

off. That was A. I think still left. Orndorff's

Both F. A up in E. Other bird comes
 \searrow \nearrow out of F later, flies away. A makes

several humps that sound like AB ones.

Orndorff's by A, (he does not seem to turn away
as bird land), mutual, new bird flies off, A

flies off with attack call. Back usual. 9:17

March 23 III

Plenty of chinking on beach, can't see any copulations at moment

A back. Mutual with ♀. ♀ flies up of C. raises. ♀ lands. Mutual. (♀ stays in F much longer than A) A in very extreme E-HF-Cpr-pr. ♀ in weak E, preening. 7:30 Starts several minutes. Agrees up preening, quit. Starts punched up. ♀ preens vigorously. A goes back in E for a minute, then preens some more. Relaxes. Both preen. Both U-F-E-HF (away from each other) at flycatchers. Back to preening. ♂ flies up. ♀ preening, swears, flies away, as close as few feet above her.

A back in med. N.A. call. On land tail up, neck bent, head down, "hr-hr-hr" call for a second. Walks around. G.C.'s

Pair on water. ♀ FB. ♂ darts at

March 23 IX

one neighbor, then ♀ clashes at another. Then ♂ reply? Afterwards pair moving quietly about for a while.

A behavior as usual 7:40 ♀ down. Both mutual with 2 F's. ♀ out of last F much later than ♂, as usual ♂ in E,

♂ in, ♀ another F, slight E, flies up as another bird flies overhead.

Looks very much as if ♀'s did F more than ♂'s (argument for submissive element in F?) ♂'s do more E. (F probably is submissive. Even in ♀'s should prove equally as aggressive as ♂'s, the stranger or new bird on territory should be less aggressive than owner.)

A back 7:49.

Looking again at heart. Don't see any copulations during course of a few minutes.

March 33 ~~33~~

A' back with ♀. Mutual. Again ♀ layers
w/ F. ♂ flies, back, below his half of mutual,
♀ just starts ♂ in E. Alt. C. pr. Mouth
♀ C. Tremor of prolegs. Chases ♀ F
at her. Leaves up, swallows back.
Both E-HF ♀ dandy relaxed, ♂ E, C. pr.
♂ walks away knowing. ♀ follows F. ♂
copy, E, HF. ♀ relaxed, eats. ♂ flies up.
Happy, relaxed. ♂ in E, HF way. ♀ not of her
but doesn't do anything FB. ♂ flies up back
F-E-HF. ♀ just does weak F (not very
extended neck). Both ♀ C. (♀ in F long)
Again. ♂ goes into E-HF after each one,
Decas. feeds at ground. General dispute
involving 3 birds

March 23 ~~21~~

What's going on? Some flying & Choking
between 3 birds! Actual chasing. All fly up 8:05.
& back some distance apart (think one of these
birds: A) yes, walks near. Purring.
Chokes (apparently at flying bird) Ch-U-F.
Q C as if lands. ~~Both~~ Q in F longer.
Q one more F. A B-HF, flies off. Back.
Does his self mutual. Q just stands.
Run off in anxiety, flies off. A flies off
yes. ~~Both~~ apparently to left neighbor's
boundary. Choking between 3 birds. Q
lands by A. Mutual (Q in F longer).
A flies off. General dispute with left neighbor
again.

Now (8:07? watch stopped)
Back in part of hide. Q down. Again Mutual
(A's lay better) Q in F longer. Both relax.
A walks left in B.

March 23 XII

Major panic 8:11. Breaks up very quickly. Another 8:11:30. A's back out. Both dispute with third bird. Fing. Third bird flies off. ♀ A stays in F much longer than ♂ ♂ E-HF (much of this HF is not typical, head turns away from ♀ as approach to E, no sudden jerk). ♀ flies off as ♂ walks away in E. ♂ G C's considerably.

Sudden panic 8:15. Breaks up quickly. A not back quickly. Birds left also gone. (In any case, it wasn't I that frightened them.)

Looking for copulations or hearts again 8:25. Couldn't find any.

Leaving 8:30

Not all birds go up as I leave. Generally start to land before I reach gate. Then panic as I move toward flowerbed field.

March 23 ~~XIII~~

Quite a number on flooded field & even more
on adjacent field. As upquads
Were in trap fields on ground and first
approached.

March 23
Tuesday

Arrive hide (A) at 5:42 a.m.
Gulls hardly disturbed at all
Apparently no birds in front of hide,
even as we approach.

Gray. Overcast. Occas rain.
Gulls noisier than they have recently
been this morning.

A back F-E. ♀ lands, F, E, etc.
A very E, Cpr (then consist of near touching,
no tail manipulation of feathers. Both
relax 5:50. Then mutual (provoked by
flying bird?). A walks in E, Cpr. ♀

March 25 #

much more relaxed. Mutual at flying level.
♀ flies off. A remains, keeping V's, bumps,
G.C., etc. In E as ♀ lands (wings showing)
♀ momentarily F, flies off. A flies off a
moment later. 5:52.

Back very soon. N.A. call. Feeling
rather alert. Bumps. V (shifts as flying
level more apparent). Then several complete
G.C.'s. Shows white wings in E to very
low flying level. Standing in E practically
all the time. Series of V's. Wings kept
shows white wings (unconspicuous)
as ♀ lands. Stays in E. ♀ F-E-WF. A
Cpr. ♀ relaxes. A preening now. Then E.

Both G.C. at flying level. ♀ momentarily
choking movement in middle of it. Flies off.
A alone now. G.C.'s. (at moment of
coming out of F, I wear hooded HB = "hi")

March 25 III

Once he HF to flying level. Walls left
Peels at ground. HF at flying level, who
lands momentarily, flees on. Qc then
peels at ground, "hoons". Now quiet
HF as Q lands. Both V-F (rather indistinct)
Q flees off unmed. Peels at ground (looks
autochthonous)

V as Q lands Both F at
same time. Q up in Anxiety Posture. A in
B. A does V-F-B-HF. Q walks away
in Aux. Q flees up. Then A does, giving
attack call.

Back left unmed with Th.a.
call. In B. Keeps HF at flying level
Shows white nape as Q levels. Q in F unmed.
A in B for a while, then F. Both out of
it at same time. B-HF. Q flees off. Then
A unmed flees after third level with attack call.

March 23 III

Back usual. Behaving as usual 6:07.
Rain quite heavy now.
♀ back. Again ♂ shows nape until
♀ lands. Mutual (♀ later & longer than ♂)
B-HF. ♂ C pr. N y up. Both back
♂ pr. ♀ pecks at ground. ♀ C. ♂ HF
away from ♀. ♀ now in submiss. ♂ in E.
♀ pecks at ground. ♂ pr. Walks away in
dir. E. Pecks at ground several times.
Repeatedly. ♀ follows, semi-E ♂
walks back. ♀ follows. ♂ in usual E then
♀ dips follow again. ♂ pecks at ground,
mollowing movements. (Looks like
normal feeding) ♀ following, also once
pecks at ground. ♂ apparently remaining
from end to end of his territory. Suddenly
♀ G.C.'s repeatedly at flying birds. ♂ in
E, G.C.; HF away from ♀. 6:17 Both pr.

March 25 IV

now. Both G.C. & flies off. Follow
her for some time. No aggressive behavior
While I am following her, A only G.C.'s
when she flies by. I usually lose her when
she lands on her with. It is certainly noticeable
that A is not G.C.ing at every bird that
flies by.

Flies off back on to G.C. lands.
Both F. & flies off. I missed flies off,
swoops at another bird, back with N.A.

Flies off again. Back with G.
Mutual. G. flies off. Circular flight, no
aggressive behavior. Mutual. G. flies off.
Circular flight. No aggressive behavior
Then lands on her with. Cannot follow her
closely, but suspect she displays with
another G.) 6:27

G. back. (G. greets her with F,
panted away) Mutual. G. flies off missed.

March 25 VI

Can only follow her flight for several
mounds. No aggressive behavior ♂
vol. G.C. & scream when she flies near
(one or 2 minor exceptions)

Rain pouring down @ 1:31 p.m.
♂ Hopes now

Bird levels. G.C.'s with particularly
hoarse voice. Diver off by another bird.
(presumably A). This one flies off. A back
@ 1:38. Behaving as usual. Walking
about. Clear, saw G.C. Feeding
Quite relaxed now. Probably due to the
rain. G.C. as ♀ flies near. Then ♂ (very
momentary as she lands) then U-F (neutral)
then up in E (♂ first). HF both. Then
fly up, ♂ first. I follow ♀. Circular flight
No aggressive behavior. Lands a moment
after ♂ (who has not been flying near her)

March 25 VII

Both just E ♀ with bent head.
Mud bed lands. Much ♀ in dispute.
♀ & third bird flies off. A ♂ remains a
moment. Certainly looked as if 2 or 3
AB with his then flew up. swooped
at least 4 times.

When I look back no birds in
a ten. 6:48. A ♂ on water. Flies to
ten. then a quick ch int. mov. (head
down, tail up) as birds fly very close over
head. then preens, laterally

AF, then GC. a bird flies overhead.
Mud lands. Mutual. This new bird driven off
by ♀. Mutual. ♂ out of fruit. Walks away
in extreme E. ♀ follows FB. ♂ hoon. ♀ &
♂ both preen. ♀ FB. ♂ hoon. ♂ regurg
(not real choking posture, tail not high)
Both cat. ♂ walks away in E. ♀ follows.

March 25 ~~1974~~

Two FB. ♂ hovers. Two, ♀s, both relaxed, presumably then Mutual (♂'s-F's).
E. HF. (♀ in flight) Walk around. ♂ in
E. hovers. ♀ FB. swooped at by 3rd
bird. all fly off

♂ back in. G.C.'s. Flutters in
near E. ♂-F as bud buds. Other bird V-F
then driven off by A ♀ with F. ♀ follows ♂
FB. then dispute with neighbors. All
fly off.

♂ lands N.A. call (as usual).
Shows rape in E as bird flies overhead.
Several G.C.'s. Shows rape in E as ♀
lands on top of him. Mutual (♀ in flight)
then E-FF by both. ♂ Cps. Bird bird
starts to land. ♀ flies off. Follow her for
a few seconds until she lands on branch.
No aggressive behavior. ♂ drives off 3rd

March 25 ~~X~~

Q leads. A shows rape. Mutual
Q flies off, circles, while I can follow her
no aggressive behavior except a few low
intensity means. She is swooped at,

R is had flown off. Back. Q back
(A not showing rape) Mutual. Q in F
Cage. Then Q flies off, circle again
& again & again, etc. No aggressive behavior
AQC's on B as she flies overhead.

Finally I leave her. 7:21

A gone now 7:25

There seem to be occasional upflights
of small sections of the colony today. Don't
really putative of the nature of panic

A? flies to left now. Q leads
Mutual. (Q in F cage). A off aggressive
flight. Back mutual. Q to A requiring
(head not far down, tail definitely down)

at least a flight.

Much as ~~is~~

off again. Makes several of these little aggressive flights. On return of goes into flight. ~~off~~ immediately, or almost immediately, in E. of FB, or reverses. In these feedings the tail is not high. While off, ~~off~~ put stand on tern.

♀ flies off, then ♂ flies off. ♂ back right. Walks left in E. ♀ back. Wape shown by ♂ as he lands. Mutual ♀ in F longer. ♀ flies off. ♂ stands a minute. Then flies off on very aggressive flight. Does sudden leanness of lead ♂ to make aggressive flights ~~is~~ ^{Not too common}

♂ back. ♀ back ♂ shows wape. Mutual ♂ in F longer. ♀ in ans. ♂ flies off in agg. flight. Back Mutual. ♀ flies off. 7:37

March 25 ~~VI~~

♂ just stands. Occasional humps, U's,
U-F's. HF & nape shown as ♀ lands.
♀ in F longer. Then both B-HF. ♀ flies
off, A remains. Kumpus & U's. Occas.
G.C's. Shows nape to flying bird.
Walks around in E. G.C's. Kumpus.
Head shake. AB. Turns head, shows nape
as ♀ lands, then stands in E, C pr., flies
off. ♀ in F. Then stands when ♂ flies off.

A seems to be having disputes with
left neighbor. Some aggressive chasing (body
conspicuously tilted with tail very high).

Back in front of hide. H.A. call
7:43 G.C's walks in E. Shows nape
as bird (♀?) lands. Series of U's & F's
by both. Alternating (I think A ahead of
other). Other bird flies off.

A saw me suddenly, flew off 7:48.

March 25 III

Watching pair on mainland. ♀ FB. ♂
HB (not intensive). ♂ jumps on ♀'s back
(HB had not changed previous). Immediately
falls or is pushed off. ♀ in E afterwards

A back to night 7:51.

Don't think there have been many
copulations on mainland today, or on heath
A back narrower. Pressing U's, etc.
Walks around a bit. HF ab flying buds

Pair land on left. Mutual. ♂ flies off.
Back. Series of U's & F's with A. Stage
♂ flies off. A HF and leaves. Then walks to
♀ in log. E. Mutual? Many saw lots of
flying about. I lose track.

A back night. Now pressing 8:00
Swooping & Chasing certainly still
quite common.

Shows rape as ♀ lands. Heads in E

March 25 ~~26~~

♀ F. flees off. After this A does V F.
Then flees off. Back mixed. Good
deal of Cing. F away from ♀ as she
lands. Both F. ♀ out of F room.

♀ in very erect ~~♀~~, rather than neck, constantly
waving head back & forth, occasional TB.
Then third bird lands. General upheaval.

Now A back of C. - Shows up as ♀?
Cads. Mutual. ♀? flees off. Then A flees
off with attack call.

Back practically mixed.
Done for quite a long time & is normal
behavior.

No copulations on the feather at
the moment. Choking also rare or absent.

A flees off -
Blow, if certainly not particularly
noisy now. Back for right 8:24. Just

March 25 ~~XIV~~

standing. Then walks along in semi-F, semi-submissive posture, pumping, & flees off. (see me?)

There is a bird perched again. Doing nothing much.

Sudden scuffle between 3 birds to crest. One remains. A? & many V-F's as another bird lands. Much F wing. Other bird flees off. Then A? does. Bird left perched by another bird. Further have both members of pair. A defending territory against intruders (probable) or 2 pairs performing mutual display (unprobable). Seems to be really aggressive.

Now original bird retreat. Feeding F's practically ceases. Now bird right along same tree. They separate.

March 25 ~~24~~

Right bird chases at flycatcher. Then joined
by ♀. Mound mutual. QFB. ♂ knows.

Reynolds (at moderate height)
wallflower. swooped by
bird. General dispute.



All fly up.

One back. Pumping 8:32

? I think right birds must be A
Only one there.

? Rain starting again. 8:35

? Right bird joined by another. Then a third.
Great deal of V-FE (sounded). General

? disputing. Then all fly up. Then general
dispute left. I am completely confused.

? A back front left? God alone

? knows Birds right are gone. Bird
back left. Both birds meaning (not
particularly at each other. Both fairly quiet
I know.

March 29 ~~1971~~

Project flies up back. Both mean
F's, B's. Other birds landing near. Strange
there is no chasing between the two Not
even now there is any dispute between them!

Now it certainly looks like 2 ♂'s
with 2 territories. Why no more disputing?
Because original territory so large?
Because birds in between?

Right bird walks left. Both doing
a great deal of U-Fing. Some mutual AF.
Left bird now smaller. Is it actually A ♀?
Left bird retreats. Right one in egg-E.
Right one. U-F as bird lands. General
dispute. Walks right in egg-E after
other bird has flown. Left again. This
~~project~~ ^{project} that is obviously A ♂. I think left
bird must be A ♀.

Look left to see dispute. Neighbor in
egg-chasing. A ♀? He is off. A species. Some

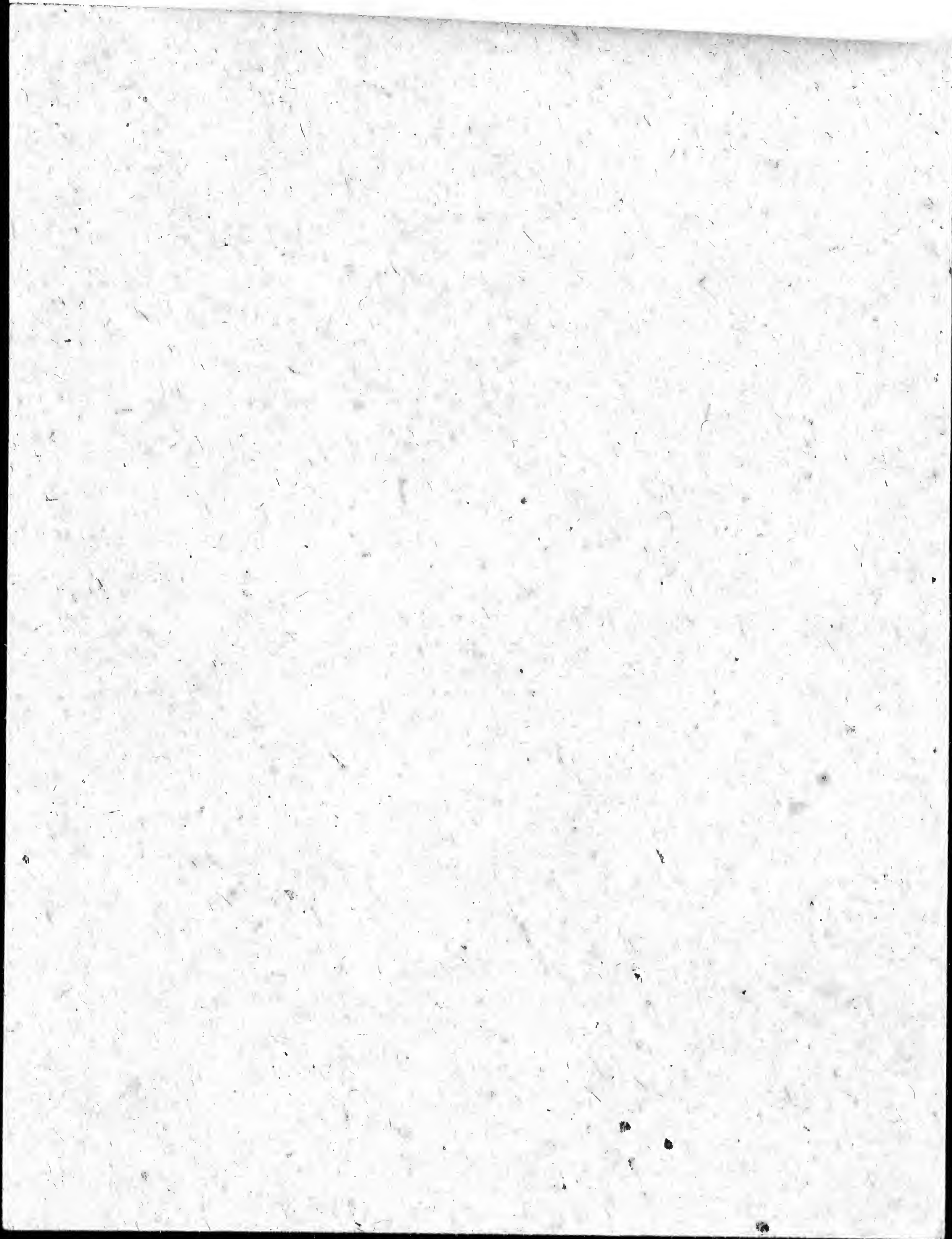
March 25 ~~XXXX~~

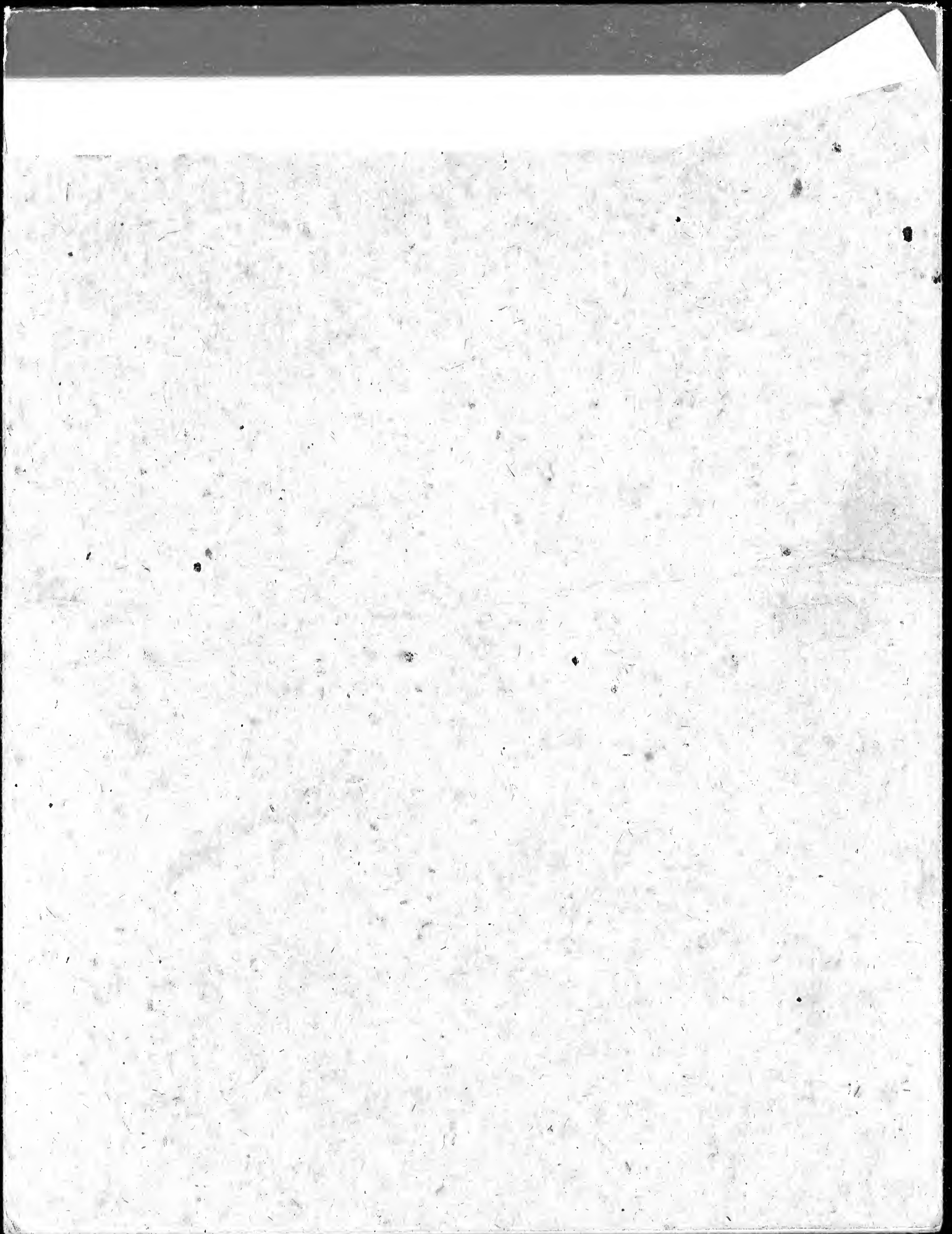
threatening. Neighbor & retreats. A stanch
a few minutes. Then flies up 8:51.

Back usual with N.A. call. Stanch.
Pushes at series of intruders. Flies off himself
Back right, chasing off stranger. Walks left
in egg. E.

Lots of birds flying low-overhead,
seems landing movements. A is kept
being U-ing & F-ing. One I took of landed.
Brief normal mutual, then of flew off
Leaving myself 9:00.









Fountain Pen
Bond



Suitable for all
Fountain Pens







V

Wednesday
March 26

Amie D-DD hide 2:25. Cold.
Windy. Overcast.

Most gulls just fly to water far side
of beach. Show in coming back. Due to weather?

One on water in front of hide 2:40. One on
beach. Coming close all.

♀ FB on water. Fed by ♂ ♀ carp
not raised. Unwed. after both dip & head-shake.
Then ♂ unwed. flies off on aggressive attack.

Bird slightly left, front hide D?
Joined by ♀. Mutual. ♂ more ♀ sexual
naive, head beat, 2 FB. ♂ advances. ♀
flees. ♂ remains.

DD back front hide. Walks left.
Rump up. Vis. D no reaction. DD doing a
great many v's. Some preening.

March 26 II

O flies up - 2:48 A few minutes later
DD does

Watching pair on water. ♀ FB. ♂ reappears
twice. Both dip after feeding. ♂ once dips
before feeding. No aggressive behavior, usual
afterwards

back. ^{or D} Lands nearby. Tail slightly
up, humming noise on landing (practically
certain) Relaxes wings

Up again

D back. N.A. call. Stand. Wings
O, lands. Mutual. DD lands. ♀ D flies off. D &
DD choke, tail high. pair to left. M?
Mutual at same time. Then ♂ M chokes (tail
high). Not apparent at ♀, who stands a
foot or so away, does one or two not very
easy FB. This choking of ♂ M was probably
directed at neighbor, D & DD (feet toward)

March III

M♂ walks away in E. M♀ FB faintly
M♂ finally reforms (tail not high) ♀
eats. ♂ flies off in aggressive flight.

Meanwhile D & DD have reached
stage of actual combat.

When I look back 3:00. All gone
no birds. Fly off. Birds. Chokes at flying
bird who lands left. D? DD pursues B
flies off. D back? far left. DD of C as D back
D of C at fly level. ♀ lands. Mutual. ♂ walks
away in E. ♀ FB out of scapulars, but
not raised. ♂ bends head to ground. (tail
not high), walks away in E, relaxes.

Other pair D? Not attacked by DD. Possibly
M? All 3 relaxed now. 3:05

Bird lands between M pair & DD. M
pair walk forward in F. Then E, mutual HF.
♀ makes more forward aggression. Another bird

Mar 26 IV

Qards in M ten. chased off. Food
where other storage level is, drives it off
remains, this is D. DD did some chinking
during the ruffle. All quiet now 3:08

D ♀ leads D♂ in E shows escape.
Stay in E. ♀ F then E-NE. Then
both fly off 3:11

DD ♀ c. re excited to face flying bird?
Yes. I think so.

All 3 birds (M pair & DD) very quiet.
DD flies off. Back with NA call. Off
again (Light is unfortunate, may be able to
see me. Back NA call. off M ♀ flies off
then M♂. M pair back. Mutual (C in F long)
DD back. Focuses at M's, but not apparently
very intense. M♂ walks in E to spot where
10 ago, choked? before. I now see there is
a little crack of twigs there. It chokes again?
(is this det. site)

Mar 26 ~~1~~

three. Complete. Leg movements. Lets down
& apparently just stands. Is this display
directed at Q or DD? Then pair walk
away. Threaten for neighbors. Is our
hypothesis about chasing correct? This is
a rather puzzling example. There certainly
did not seem to be any vigorous dispute
with DD

Panic (major) 3:25. Breaks up
fairly rapidly

Another major panic 3:27. Quickly
breaks up, but, as usual, it takes longer
for wandering birds to come back

All not back 3:31. Plenty of birds
in health, but none than usual?

M's back, far to left 3:33. Doug absolutely
nothing.

Q fed on water. No aggressive behavior

Mar 26 VI

D back 3:36 D lands close by. Choke.
Long moan, rather than short, abrupt
one. Both standing quietly. If this is D,
it is peculiar in that it walks left, now
standing left of nest-site. Walks right.
F, then turns showing white rump to DD.
DD chokes at return.

D & DD are certainly dull. Wish I
had better view of N pair.

Major's plane 3:44. Then D & Q lands
by D (if these are D) Mutual (Q in F (long))
Then of course DD chokes & F, alternate &
mugled. D & F walks toward him. Also does
alternate & mugled Choke & F. Q F, one or
2 FB. DD flies up! D & F walks away in
F, pecks at ground several times. Both D
fly up.

DD back usual.

Mar 26 III

Does the fact that the ♂ hovers during aggressive
chasing, explain why ♀'s sometimes FB in
boundary disputes like the above?

Do the relatively great number of pauses
this afternoon due to lowered reproductive
drive of colony as a whole? Also yesterday
afternoon.

DD flies up 3:50.

M or D back with N.A call. Rather
far left. Just stands. Joined by mate. Mutual.
♀ FB. Reflex off. Back. No mutual. ♀
FB partially. ♂ head & head to ground and
times (tail not high). Walls away in E.
Both fly off. (Doubtless this was M.)

During feeding tail is somewhat (a few
degrees I think) elevated from horizontal? But
beak not lowered & body wall is not tilted

Nothing on mainland near me now.

4:00

Mar 21st VIII

Then D lands with full call. Just
stands & at flying bird. Then just stands
of E as bird (♀) approaches. In E
(oriented to down-slope). Mutual of
flies off. Back to D lands at same time.
Then just flies ♀ of HF over with ♂.
♀ is definitely more aggressive. Changes to
call fly off. D pair back. Mutual (♀ in
down). Then stand. Both seek at ground
successive times. Then. In air - E flies
off. Remaining bird just stands. ♂
back. ♀ does U-F (oriented away from ♂)
before he lands. Then in E when he lands.
He does U-F-E on land.

Both fly off in major panic 4:07

I think the only times when ♀ does
not usually F more than ♂ is when he returns
from little circular flights

Mar 26 IX

Another major panic 4:07:30 Buds
on health slow to alight.

Panic again 4:08. Contact stating
that buds on water come down first, or at
least most buds come down on water first.
They now 4:09 form an immense rope. Few
on health.

Major panic 4:10. Breaks up
fairly rapidly. Again majority land on
water. Sledge then gradually fly up from
water to health. Flare flying low overhead
do not start panic.

No buds back in front of hide yet.
Watt's length TB on water. ♀ seems
to be getting no response at all 4:21.
Still only one bud on whale mandible.
No activity about four.

Leaving myself 4:23

I

Thursday
March 27

Arrive M-D-DD beds. Slightly
shifted. Very cold this morning 27° Fahren.
Beginning to cloud over. Seemed to be a
great many gulls around, as we approach.

Gulls went quite high, coming
down on water far side beach immediately.

Major (game?) 5:38 All flying,
not very close. Settle back on water.

Other gulls just circling. Some seem to be
settling on far water all the time. Circling
much closer now - 5:48. Starting to land

5:48:30. Coming down in masses now, as
much on beach as on water. No birds in
front of hole yet.

Out to left. ♀ FB. ♂ walks away

Mar 27 I

in E, headshook or peels at ground. Both
Max & sit down. Both fly off. 5:53

One back very shortly. Reluctant approach
(because no other buds on mainland nearby?)
Just stands. Gets down (due to cold pressure.)
A few traps at flying bud. Stands up. Shakes out
plumage. Very relaxed. G.C. (flying away from
water). Again. Relaxes. G.C. ♀ approaches.
Then up in E (showing rope and lands) Both
in E. Cpr. ♂ flies a few yards to dive off
into water, who flies up toward ♀ flies to join
♂. No show, no peels or lands. Both preen.
♀? flies up. This is pair N.

Remaining bud stands. Then walks
"susp"ing. Relaxes. V.F. pointed at. Landing
bud. ♀ also must land. Both F. Other
bud flies off. Both in E. Preen. Fly off a
few yards, ♂ first. In E on landing ♀ FB over

Mar 27 III

or twice. ♂ in E. Then both relax. Both U-F
at flying buds. Both relax. Got down much
this morning. Neither, apparently, is "P" pair.
D+D pair shown up.

Both M pair walk after interaction in
E, ♀ first. Then relax, press. Walk toward
intuder (juv.) at "P" end. ♂ F-E. ♀ E.
Relax. Press. Stand. ♂ walks away in E,
then flees. ♀ remains. ♂ back much
further right. ♀ flies to juv. Both F-♀
in strong E. Walks away. Flies up. Jack
no real display. ♂ in E. ♀ FB twice. ♂
walks away, presses.

D? appar. back. Flies off unaided.
M ♀ onto down. ♂ just stands.

Both walk at mutually pair. ♂ F-U-F-E. ♀
F (long)-E. ♀ out of F before ♂. Both press.
Both fly off. 6:12.

March 27 IV

Two birds now in M. terr. One juv., one ad. Both green unconcernedly, close together. Another adult lands. Preens. Can there be no? Juv. is down bank a little Juv. walks to top bank. Between the other two.

Sun shining rather feebly @:17

Now another adult preening in M. terr.

①? back preening. Stands. Preens

Now a dispute at M. One bird drives juv away with F. Then walks at 2 other birds F. Both off. Juv. back inconspicuous in distance. Right threat by "P." M. bird just standing. White-face lands between juv. & "M". ad just in just lands then runs toward juv. & whiteface who retreat.

Don't doing much. Just means
occas.

M. bird just walks along a bit.
Stands very hunched up @:23. One F at

Mar 27 IV

flying bird. Then one G.C. 6:26. U-F-U-F
as flying bird lands latter flies off. Then Fat
juv. who retreats a little. Then relax. Then
nurtures at juv who retreats in a hurry. With
help of "P" bird juv. is finally driven off.

M bird walks toward birds. Starts to
"pup" as neck goes up. Must be alarm. Then
relaxes a little still pup-ing. Juvs lands in
tree. Is chased by M in egg E. Both fly up.
M back. N.A. call - then G.C. then relaxes U at
flying birds

D seems to have gone now

A great deal of FB on water as usual

6:37. D G.C. Redbill & vireo with many
prominent in tree light. That? Both. Both
in E. ♂ flies off. Back unused. ♀ in E
♂ either momentarily peck at ground or F then E. ♀ & ♂
Both Patagon
Both ♂ flies off. Back both E. ♀ FB. ♂
flies off. Back. Both in E. ♂ walks off

May 27 III

relaxed. ♂ walks to ♀. Good down, brown
(one HF!) with head down. ♀ FB. ♂
rearing? ♂ flies off. Back. Both in
♀ showing white rope a bit. Both peck
at ground several times. Both preen.

During this above feeding ♂'s
tail was practically horizontal, if not completely
so @ 43.

M ♀ completely relaxed. ♂ in E.
Occasional ♀ c. Walks away. Relaxes
(are there 2 causally related? think it is quite
common)

♂ in E. Picks up twig. Pumps
it back by ♀. Then in rope posture Tail
well up. Do it again. Again. Again. Once
actually snaps. Again. ♀ just preens.
Doing it steadily. Now no longer much E.
Carp not very relaxed. No sound. Fully

Mar 27 VII

Feathers fluffed out slightly during snapping process.

He is pulling up masses of nest material
♀ just starts. Occasional sneezes. One of HF
then back to work of fluffing @ 1:30

Back used. ♀ HF as he leaves. Fin
E. Fluffing again ♀ just starts relaxed.
(Did I see me, God I hope not).

This is probably second beginning of nest.

On different note from yesterday's checking into

♀ still just standing @ 2:56.

Doesn't seem to pay any attention to flying
birds. Walks toward hide. Now right of
old nest-site. Now fluffing.

When back left screaming at
then G.C. before ♀ lands. In E showing rope
as she comes in ♀ display? Both E. Then
♂ walks right. Semi-relaxed. Semi E.
F at D neighbor. D & DD checking each other

Mar 27 VIII

F's be HF at ♀ who has spurned him, but who is not displaying. Both display ♂
QC ♂ F's at D & DD who are still chokung.
Then M ♂ chokes in old nest-site. Then
both M F at D pair & DD

During all this D ♂ & DD have
been chokung. D ♂ possibly by ♀ who FB.
D ♂ has tail high, above wings, during
this obvious aggressive chokung.

M pair rush to other end of tree.
♂ brings twig to ♀. Third site. Hoops.
♀ quit preening.

D ♂ now feeds ♀. Tail not
high, or at least breast not lowered

As ♂ is now nest-building at
second site. ♀ stands beside him. Just
preens. 7:12

Mar 27 ~~IX~~

DQ is still FB. ♂ pecks at ground. Lowers head. Tail not high (not very high). Feels at ground. Walks away in E. Reverses back with N.A. call. ♀ shows wings then pecks at ground. ♂ in E. Pecks at ground then 2 HB's. A few more

Are M pair gone? Or have they gone very far left?

D♂ flies off. ♀ just starts. F as head leads left. Satter advances in F. Drives ♀ right. Dispersibly M. D♂ lands. All 3 F.

One flies off. DD back chokes 2 remaining birds other than DD seem to be pair. Both E HF. ♂ walks away in West E, then flies off.

M pair back left
Little mix up (me, I mean)

Mar 27 ~~IX~~

D + DD chasing M pair north
toward them. F? stops. M ♀ seen. ♂
picks up wing. M ♂ F at neighbors. ♀ out
slightly. ♂ HF at ♀. ♂ moves at neighbors
♀ F. Deholes. DD screams. M ♀ closes.
Then M ♂ considerable display
which I find very hard to follow.

Now ~~at~~ 7:23. All quiet. Three
birds in front of hole. One is DD. Who
are the other 2? I think M pair. All
fly up. M pair back used. Both in E. ♂
head in HF position. Both seen.
F's as DD birds. ♂ M in slight chokung
out. mov. ? Then screams in U. Relaxes.
DD flies up. Back. M ♂ moves away.
HF with M ♀. All relaxed now - 7:26.
M ♀ flies to M ♂ who is in F by second
nest-site. Both E Relax

Mar 27 ~~VI~~

D is back near D. Both behaving as usual
M pair drive off into under with F. Then
mutual E-HF. Then preen & one or twice
FB. Both back to preening 7:29. ♂ walks
around areas in E. Both preening intently.
Both react at intruding pair, who fly off. Then
mutual E-HF. ♂ walks in E. Flies off.
Back ♀ in E, shows rap. A F-E. Walks
away in E. Flies up. Back Both E.
♂ HF walks away a little. Flies off. ♀
walks up. Flies off heavily 7:37.
One M back usual. U-F.

Reacts at "P" pair in repeated F's. They
seem to be chasing (below the bank). M bird
walks away a little. Releases. "P" bird appears
again on top bank. Then the other M bird
F's. Flies away. Chokes. "P" ♂ chokes
in return. M walks away. ♀ C. Cat flying

Mar 27 ~~XII~~

bird?) All three birds green. M picks
up sticks (must be F) deposits on mound
site. Scrapes. Releases G-C's at flying birds.
Once at "P" had an inflexion over head 7:44.

M quite relaxed now. Then Intertax
& walk land at practically same time. Much
F wing. Intertax & fly up. ♂ back used.
♀ shows scrape in E. ♂ (with possible
pulsing F?) in E. Both fly up after ♀ has
made a few FB notes. Back. Mutual.

close ♂ walk away in E. ♀ follows in E. ♂
scrapes or chokes (tail high, couldn't hear
sound) in site. ♀ FB. ♂ walk away
collecting in m. Groaning noise. ♀ follows.
Both in choke? posture. ♂ then scrapes collecting
more in m. ♀ releases. ♂ makes a few chirps
while collecting. Might have prooded?
Don't think so. ♂ deposits some in m in
site. Both fly up

Mar 27 ~~III~~

Back used. Not together. ♂ at site.
♀ walks to him FB. ♂ in close posture
(cannot tell if he knows). ♂ makes two
little circular flights & shows wings each
time he comes back. ♂ walks right in E
Polaris. Dues 7:55

♂ of C at flycatcher.

Must note down that mutual
display on arrival of either or both birds
seems common today. Due to advance in
breeding cycle?

Both M fly off. One back attached
by D ♂ who has been display with D⁺
M back? Preens at edge of D
tree. Another bird suddenly appears from water-
bank, D? Both quiet. Rises up. Jaws
note left ♂ standing by nest-site. Both
relaxed. Obs. preening 8:03.

March 27 XIV

♀ M into down. ♂ continues preening
of ♀ C. Both fly off 8:10. One back
off again used. One back preening just starts
♀ C as one of "P" lands.

P pair. ♀ FB. ♂ feeds her. Tail
not high

M flies off 8:14. Back used. With
N.A. call. ♀ C again as ♀ lands. M back F.
then HF. ♀ retreats in front of him.

Seems to be "P" ♀ M flies off 8:16

Back used with N.A. call. Walks
toward side. Starts "prep"ing several
U's & ♀ C's. Releases ♀ C (not at D or DD
another is present). Doing quite a series
of ♀ C's. F (pointed toward her) as ♀ lands.
♀ in F. Both B & HF ♂ flies off. ♀ shows
repeated lands. He in B. ♀ FB. Both
fly off, or just

Mar 27 XV

M back. N A call. ♀ birds
lyth. ♀ FB. ♂ bends head. Fin E. ♂
flies up. ♀ follows 8:25

M back 8:27 Silent Walks down
Trees. Starts. Flies up. Back out 8:32.
"pup"ing. Flies up. Pan back part of side
♀ FB. Fin E (neck rather forward, head
lent down), humming. Disappears below
bank. Jowed by ♀ Over appears. Trees
flies off.

One back, far left ? 8:40

Another lands medium left. Of. This
one is undoubtedly M. Runs a little
sight as DD lands. Then stops. Standing
silently. Note land. Mutual. ♀ flies off

"P" ♂ collecting masses of n.m.

"P" ♀ F. Then collects some n.m. Follows
♂. Both disappear down bank. Is

Mar 27 XVI

nest-site there?

Landings of stranger ~~to~~ between
P's & M's. Probable lots of F's from both
couple. Generally flying up.

M pair back. Mutual of flies up
Back. ♀ shows nape. FB. ♂ flies, back.
♂ napes in site. Both fly up.

Both "P"s seem to be collecting

mm.

"P" pair mutual display. ♂ flies off
immed. Back some distance from ♀ ♀ FB
♂ flies off mid-back mid. ♀ FB again. ♂
in E

M pair back ♀ FB frontally. ♂
in B unusual. Head down, tail not high.
♀ keeps FB ♂ keeps in E. ♂ pedicel
ground Both fly off. ♀ part 8:33.
Back. screaming low distance

Mar 27

XVII

apart. In E. of HF. Both adopt
choke posture. ^{or snape.} of collection. Snaps.
This is third site. 2 driven off as another
bird lands. "P" = Much Fing by both birds.

Low E-NF. Both go far left. Lost
practically from sight. One flies up. Lands
in M ten. in front of hole. Flies back left
so there is HF after F in aggressive
boundary disputes. Between disputants, when
mate not present.

M. busy collecting in m. Then
stands. Then collects more. All this at third
site. Just stands 9:00. Walks right.
Puls at ground. stands. Preens. Sweats & V.
Then G.C. Then flies off 9:02.

Looking at heart for a while.
~~then certainly~~ Can't see any copulation
attempts at the moment 9:07.

Mar 27 XVIII

All birds except DD seem to have gone
from in front of the hide. He is sitting down
peacefully.

M pair lands. On M bird + "P" bird?
No M pull ♀. ♀ in F much longer down
nutcrack Mch. H. ♂ flies off & back in
front of hide. ♀ walks part way to him. Then
stops. ♀ walks near. In F other bird last
♂ runs left. ♀ pursuing all the while.
He is mostly in F. He int. He pulls at
ground. ♀ pulls him. Apparently not
or. He flies up 9:12. M bird (with ♀?)
chases another nutcracker away with walk &
F. Walks right. stands. Then chases off
intruding pair by "P". ♂ to involved in F about
with "P" pair. some Choking

 ?
moping

 choking

Appearance
in nest?

Mar 27

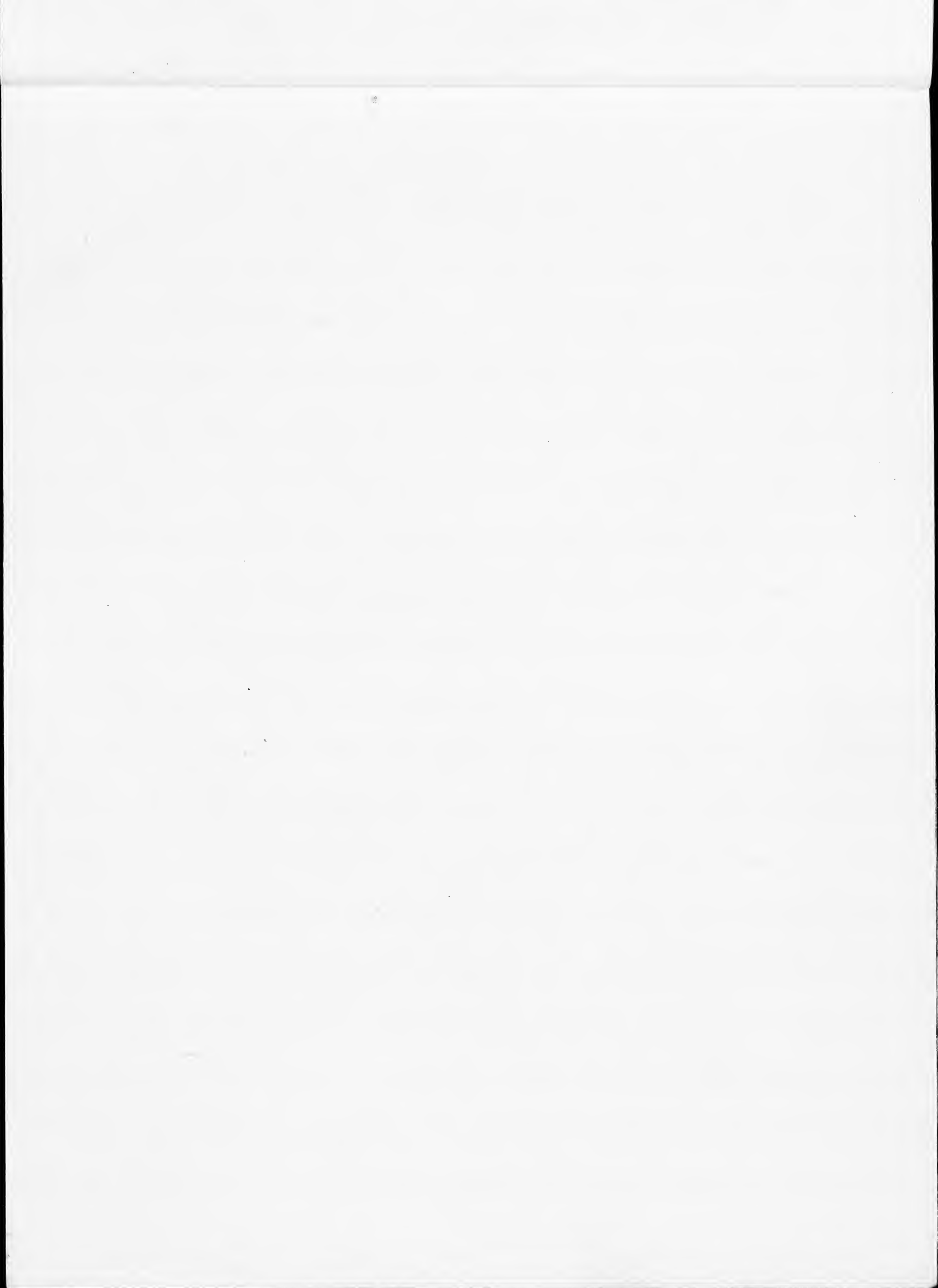
~~XIX~~

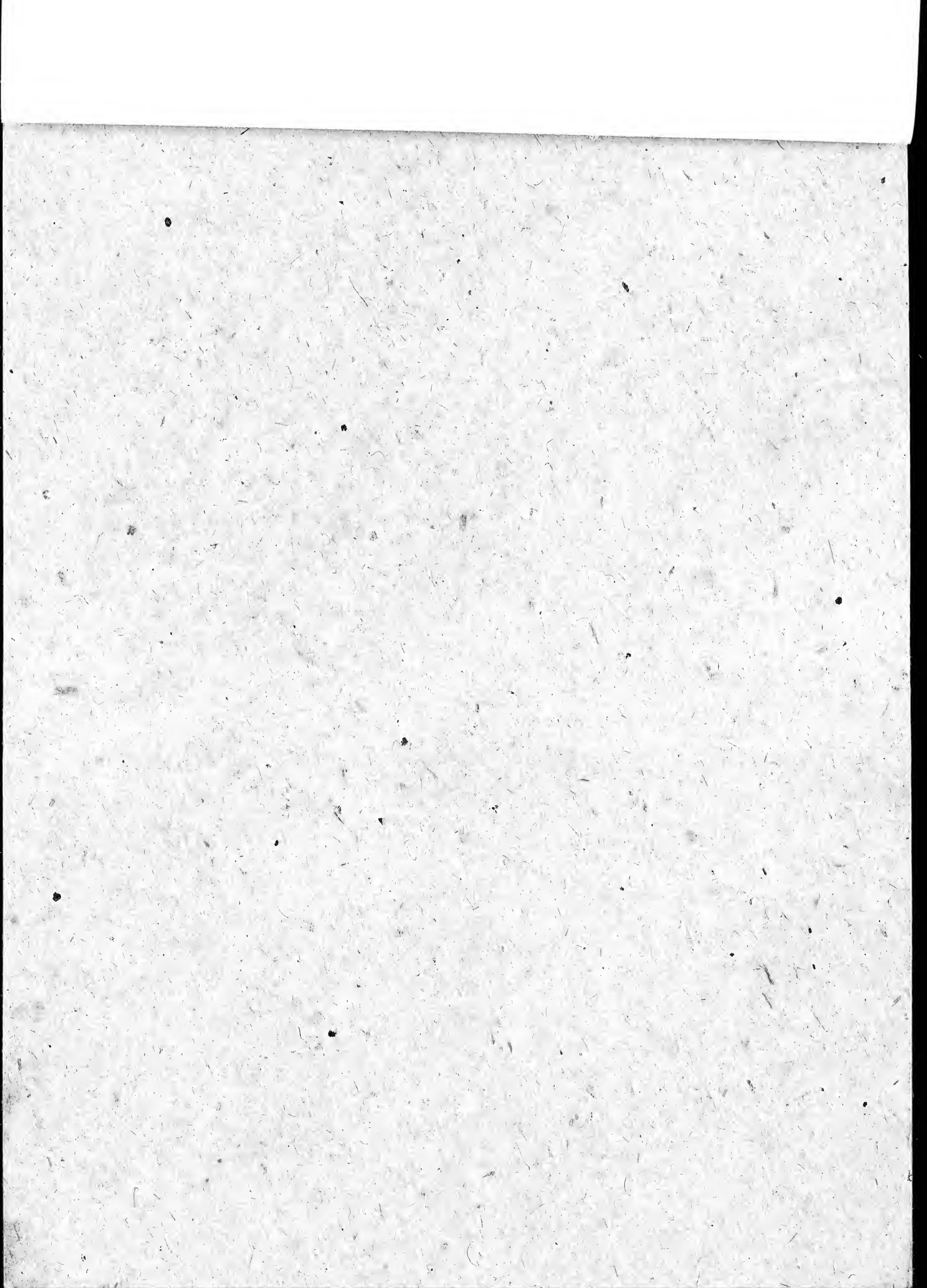
M pair back near. ♀ FB. ♂ puts
head to ground. Noon? Tail not high.
Walks away in E. ♀ continues FB. ♂ puts
head to ground twice more. Tail not well
high. Flees off. Back. ♀ FB still. ♂ in
E. Head ♀ again. Again tail not well
high. One bird flees off, then the other ♀. 18.

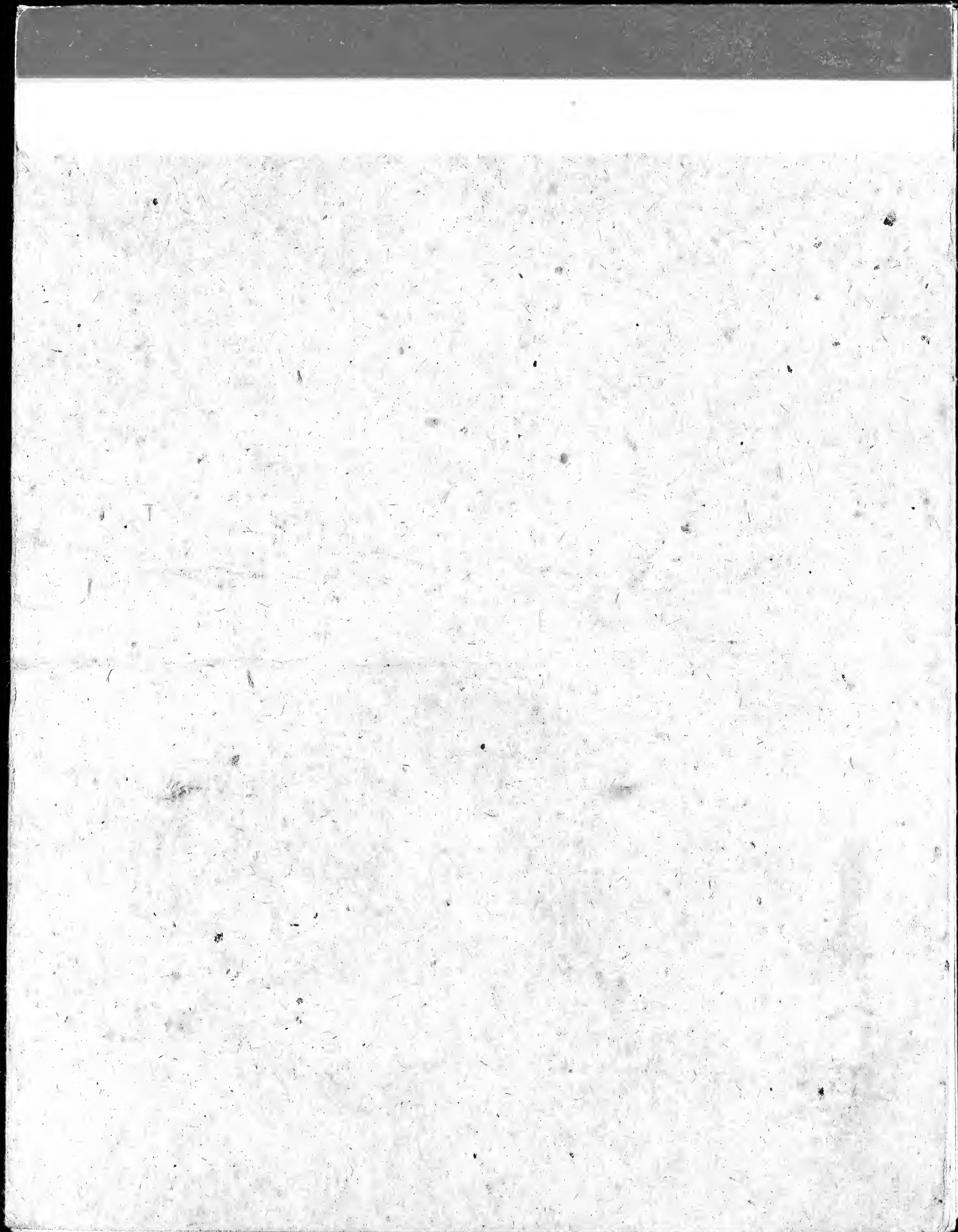
Both soon back ♀ put. Mutual
with E WF. Just stand. Preen. Don't
seem to attack 3 birds, 2 juv & 1 ad.,
who loudly "p" and chirp. Feather do
"p" pair. Then one of the M's does. ♂
Drives off 2 with rushes & F. One juv.
remains. All stand, quietly now.
♀ walks to ♂ in relaxed submissive
posture. Both preen. ♂ walks away in
number E. Then walks back to ♀ as
she walks to "p". ♂ F at "p" ?

Mar 27 ~~XX~~

Both pairs F at window who fly off.
Both M's fly off 9:23. Back in E.
♀ one or two FB. ♂ in E. ♀ walks right
♀ flies off, followed by ♂
State opportunity to put roof
up. 9:26
Leaving 9:30









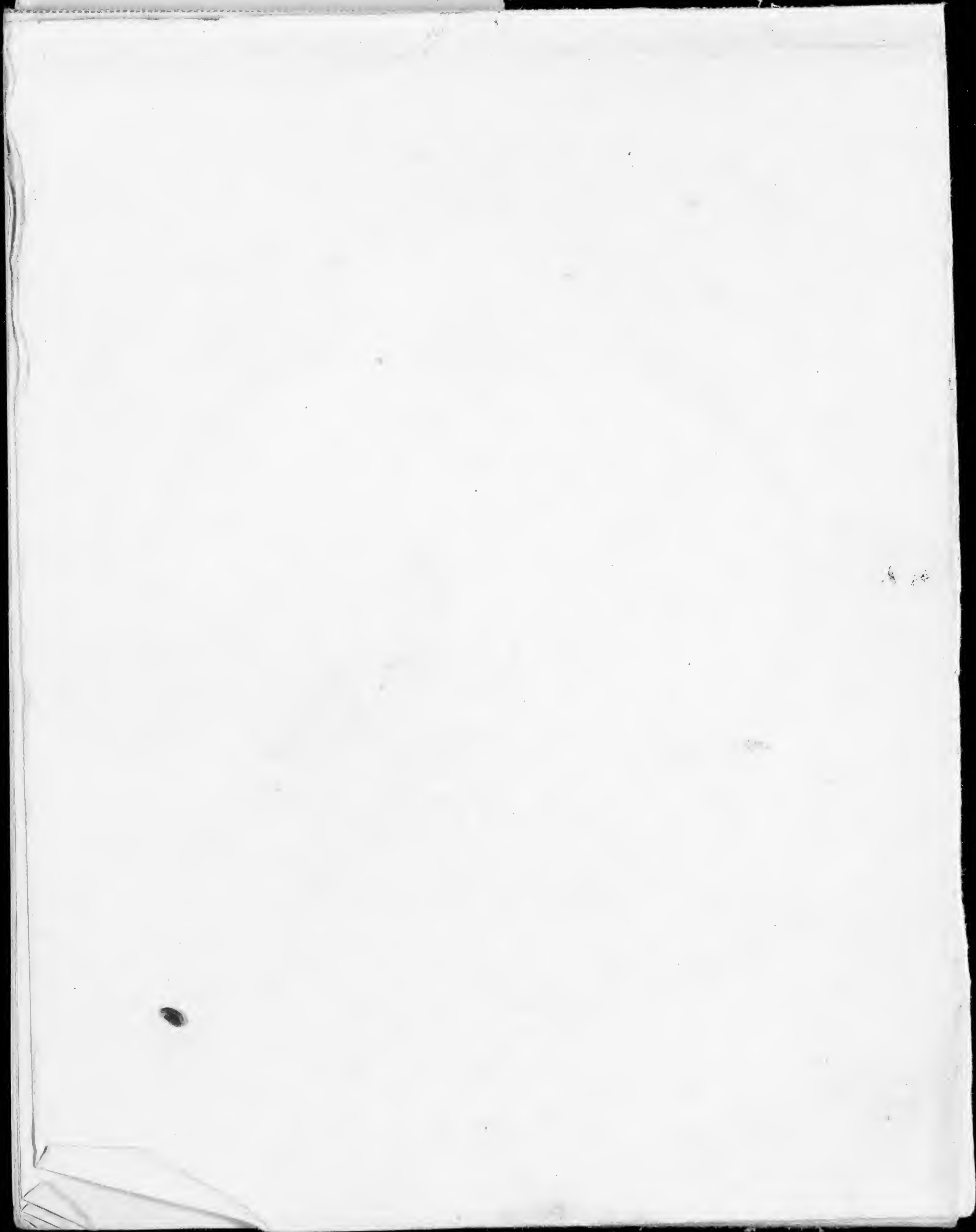
Fountain Pen
Bond



Suitable for all
Fountain Pens







✓
Saturday
March 29

Arrive hole (crawling) 5:05.
Overcast, cold. Moderate winds.

Succeeded in not alarming gulls on
water & on beach. There don't seem to be any birds on mainland. Still
quite dark. Gulls not doing very much now.
Mostly just sitting or moving quietly. A little
aggressive behavior on beach.

No birds on mainland at all. Even
on far side 5:25.

Obs. examples of mutuals on both
beach & water 5:40. No copulations seen
yet (have been really looking for them)

About 3 birds on mainland on far side

Behavior in general much as all week.
Even less intense. No copulations 5:40

March 29 #

Still quite incredibly windy. Expect birds to blow off at any moment.

Watching pairs on mainland. A pair apparently chiding &/or scolding. Involved in dispute as to whose lands. Quicker down off with F's primarily. Note one bird after mate has flown, does V-F-HF - peeks at intruder.

Still only a pair on mainland 6:00 a.m. Still no copulations seen on beach. Now a few more birds on fair mainland 6:02.

There are undoubtedly ~~several~~ few birds here today. I think they are getting fewer as the morning wears on 6:15.

Leaving myself. Taking down beds. Ignorant of its flapping. Must be deterring birds.

I

Thursday
March 31

Arrive A bird 3:45 Cold. Largely
mumy. Gulls start to land faintly
North in distance, however. Another pair
3:48. Gradually getting nearer. None
on mainland yet. Pair 3:49. Gulls
break up. Don't seem to be any gulls on
outskirts of beach. Gull on midland.
Rather far away. Some faint near on beach
3:53.

Some aggressive chasing on beach. In
one case, bird does it immediately on alighting
alone. Actually quite a bit of chasing on
beach.

Watching apparent pair on beach.
Doing nothing. One flies up, other remains

March 31 II

Absolutely placid.

Three pairs on mainland right.
X (on stump), Y, Z. Y & Z both preening
(in pairs). Single X on stump 4:04
Other X back. Did not watch display. All preening.

Bird lands in A area, flies up after
a minute. Birds are utterly placid
at the moment. Five birds in area. All
of C to various degrees and flying ^{in air} ~~in air~~
with birds. One pair? Choke (fanning
back other) with flies off. Then etc 4:10
Now 3 again. General preening area?

Y pair. ♀ 2 F's then one FB.
♂ does E-Cpr-p. All utters now.

A back temporary. Gone almost
immediately. On water. ♀ lands. Clamoral
mutual. ♀ flies off ♂ to land. Joined by
♀ ~~with~~

March 31 III

Sudden dispute in front hole 2
pairs. Lots of F-wag. One pair flees off.
Other pair remains & quarrel. ♂ in age 5
walks away, then toward ♀, she flees off usual.
Seem to be a number of similar flights &
retreats. Age 5 certainly seems int. near
of attack. (Other birds retreat from it in a
hurry. Only one egg. Choking. Choked alone.
Now one A bud alone 4:20 ^{on pond})

Quas means & U's of Cas ♀ lands Postal
at her ♂ ♂ ↓ ♀. Mutual ♀ in F long ♂
walks away in 5 they quarrel. A few means
♀ seems nervous. About hole? Then
starts to pee. Both fly off 4:26 On
water.

Several nice clannical mutuals
on water.

March 31 IV

Don't see any copulations on hearts
4:32.

A back sight 4:36. Occasional
measures or bumps. Walks left. Stands. Release
of C as Q approaches (F away from her)
Then E (showing shape as she lands).
Mutual. A walks away, in E Q
stands in E (one on a MB from E) Walks
after A. Both Q eat flying bird
followed by mutual HF. Q flees off.
A flies to heady water

A joins water. Intermittent 4:39.
Occasional V's at flying birds.

FB of feeding on water and F's
tail not kept.

A back Q joins. Mutual Q
in F lounge. Both E, C. One flies up
Pursuing bird stands alert, Q. C's flies up

March 31 ~~IV~~

A back usual. Flies up, usual.
Does it see me? Overhead, trying?
Down with N.A. call usual fast to reject
(N.A. call "Kreooo-kreooo-kreooo-kreoo
kree-kree-kreoo-kreoo-kreoo"?)

A pit standing, ocean preening
4:50. U & seems to fly up. Release
Again. Release Again. Release. Flies up.
On water now?

Birds in X area not doing much.
Some FB. No result. ♀ flies off. (Hood
of A?, looked like it, but so unam' & very
agg. ♂).

Nothing much happening. Learning
5:00 to give A chance to get used to hole.

\$

Tuesday
April,

Clear Cold. Arrived A bed 5:15.
Gulls go high. Coming a little lower 5:27
Start to land 5:30. Then raised. pause. Then
lower again. Actually there seems to be a
large flock slightly to the left, on the water,
short peculiar. They stay there. Not many,
compared with the great numbers here when
I arrived. Flock has spread a little. 5:38
Some birds circling over the beach.

Starting to land there 5:38.30 Whole
flock on water flies up as Canada Goose comes.
Some land on water further left. Goose
is swooped upon.

A pair land ^{right} left. Mutual. One
makes circular flight. Back. Mutual.
Gps. Both off. ♂? back. ♀ joins, etc.

April 1 II

Now A returns alone. Stands Hoams,
Walker left still screaming. This off, in
apparently non-aggressive flight. Back
right. Occas. purring. Mostly just standing
hunched up. A little preening 5:47.

Walker left. Pedicel at ground. Relaxes.
Tries O cards. A does F (away from
her, as she lands). ♀ does F, then another
♂ out of F just. Both E-HF. A Cpr.
♀ flies off. Back same performance. ♀ flies
off. Cpr. comment under wing?

A screams, bent head on HF, at
flying but 5:51. Relaxes. Occas. screams.
Crouching up rapidly now.

A flies away.

Apparently successful copulation on
beak in distance. Officially thrown off.
When stands in E, Cpr.

April 1 III

Apparently unsuccessful one at 4.
(Both birds I saw had bill closed). When
over, both birds in E. One flees off.

A pair back. Mutual. ♀ flees off. ♂
flees. Quite intense.

Minor pair 6:02. Quietly breaks
up. A back used. Traces

x pair back practically together.

Mutual, ♀ FB. ♂ walks away in E
(partially obscured by stump). Presumably
puts head to ground. Certain tail moderate
high. ♂ flees off used.

When I look up ♂ x in back.

♀ sitting down, FB occasionally, ♂
standing beside her, FB continuous in
submissive posture. Then jumps on ♀'s
back, a few cop. movements, thrown off.

April 1 #

♀? flies off.

A walks left finally. Quite silent. Standing relaxed on station.

✓ A great many birds (6 or 7) right of X & Y. Very placid, mostly preening. In fact, a sudden lull.

A means. Flies off.

|| A pair a little mutual to B. Then ♂ adopts posture, flies off

following thickly now to 17.

♂ x talk. No mate have dispute with neighbors. Some F-wing. Then ♂ x walks around in B, tail raised above wing. (I presume this is because when wings were spread in momentary, the tail got "caught".) Now still heavy wind. Gulls

April 1st

not very active.

X pair drive of uteruses with
F's then mutual off. Then ♂ rather nibbles
a ♀'s hood & face before starting to preen
himself Pencil.

Actually, I don't think
am separating X & Y correctly. Most of the
stuff about X pair, should actually be Y.

Now turning out 6:32
Then leaves again. Birds on mainland
have done nothing but preen since it
started.

Pair in distance ♀ FB. Frequency
tail not high, breast not lowered. Then ♀
continues FB. ♂ then waves FB with occasional
peck at ground. ♀ also peck at ground
once or twice. ♂ quite submissive in FB
Then both relax, preen 6:39

April 1

III

Snow stopped now.

Some birds scream, F, choke?, when
geese come on land. Others fly up or ignore
them. Two pairs of geese apparently
Some gulls swoop at them.

A back joined by another bird. Mutual.
Then A pecks other unknown. Other flies off.
A in B. Pelares

Good deal of mutual FB at same
pair as previous (Y, I think). A with some
WB Not succeeding. A walks away finally.

Snow stopped for some time now
c:47, but still overcast

Pair left. Then joined c:49, as
geese have fight. Pair breaks up
rather rapidly. Gulls swoop at geese

Pair right. Good deal of mutuals.
Circular flights. ♀ FB points. A hovers

April 18th

in E. (Intercepted mutual between
hooning & F call) Now of alone in
front of hole. Must be a swarming & U's
of casinate levels Painted at it. Mutual
at. Wate flies off. (Notice plumage
is scattered in F).

Am out now - 6:54.

A pair staveling swarming.

Not much going on on mainland
now. 1 pair preening, ♀ over to B. Then
Mutual E. Both fly off.

A possibly ♀. Mutual. Again
F call sounds away like hooning. ♀
flies off. Or is that she further along
right? Both birds standing relaxed, a
few yards apart. ♀ flies off. ♂ advances
left, F ing at numerous birds there.

April 1 ~~11~~

They fly off.

A pair land again. Mutual ♀
reality repeatedly. ♂ flies off. Then
♀. On back usual. Very quiet. ♀ back
several F's ~~♂~~ walks away in E. ♀ pous
Then both F (at flying bird?). Neutral
HF ♂ flies off. Back mutual. ♀ FB
♂ walks away, broods, regurgates, swallows
again. ♀ got some food I think. After he
walks away she pecks at ground. ♂ flies
off. Back. ♀ F toward him as he lands.
♂ put in E. ♀ FB, ♂ walks away in
E, flies off. Back. Mutual ♀ FB.
♂ walks away in E. Broods. Regurgates
(tail low, neck not very bent). ♀ lots.
Continues FB. ♂ in E, broods, regurgates
more. flies up

April 1 ~~IX~~

Dark. Q in F lounge during mutual.
Q FB twice. ♂ walks away in E. Tail at
ground. Q walks to him in B. ♂ hovers
in E. Pups of cats (not very greedy).
Both go to water to pee. Then away
7:17 Mutual on water

Good deal of FB going on on
mainland now. Some mutual FB. Both
birds quite submissive. Then ♂ jumps suddenly
on Q's back. Wing beats. Falls off. Q
dashes at neighbors most aggressive. Then
group spread. Then in E. Then both pee.

Seems to be a relatively new pair
between A & X. Now a single bird
between new pair & A. This bird retreats
as A advances in aggressive E. Then
both pee. All A possibly Q. Mutual

April 1 ~~2~~

Two Flies. ♂ walks left in E. ♀
follows. ♂ flying (did ♀ FB??) ♂ flies off.
Back mutual. ♀ FB. ♂ flies off. Back
chases neighbor in E. Neighbor flies off.
At this moment A picks ground (displace-
ment?). Then another intruder. Both
A in E. Intruder off. A mutual E-HF.
Then fly off 7:31. A back moved. Quiet
on station.

They certainly aren't very active
now. A leaves quickly. Actually has just
walked left. Followed by ♀. Mutual ♀
flies off. Back. Mutual off. Back
mutual off. Back. Mutual off (this
time I think definite because of advanced
in age - E). ♂ walks right. Picks
something off ground & swallows it. ♀ toward

April 1 XI

♀ as becomes back. Mated ♂ Cpr.
♀ flies off again. A leaves mustine later
7:43.

Pair in distance ♀ FB practically.
♂ perches at ground. Then ♂ to water
dip & head shake repeated. ♀ runs
along bank FBing. Then join ♂ in water.

Things very dull indeed on
mainland 7:55. Some copulations in distance
on beach.

All but one bird gone from
this side of the mainland.

Leaving 8:10.

Thursday
April 2

Arrived C-C-H hide 4:35
a.m. Clear, Cold (31°). Still rather
dark. Gulls go high early as we
approach.

Are the gulls higher early in the
morning than later in the day?

Getting lower 5:16. Starting to
land 5:18. 1 bird back. Some cooing.
Now land sight. Now, 5:25, a pair there.
Preening, sitting down on frost. ♀ sits
down with tail waggle.

Gulls as a whole seem to be in
fairly tight flock on water. Lots on
beach.

Bird far right near N? This
up 5:30. Pair on right group shortly later.

April 3 ~~II~~

Simple, wonderful Footing from A to N I
5:35 Can't see any copulations on beach at
the moment. Gulls seem relatively placid. Due
to the frost. Up! One cop., unsuccessful,
♂ pulled downward abt 2 several times.
Couldn't see preliminaries or sequence

Seem rising 5:42

♂ back upright. Stands. Hits
down. Seem to weak V (while sitting) abt
a flying bird. Again 5:45 Stands up to
do of C as mate lands (the F first in direction
on mate lands, then away) Mutual E-HF

Original bird flies off. Mate sits down
♂ back. Mutual. ♀ FB. ♂ ut. near-segging
Walking along with this. Occas. HF. ♂
flies off. ♀ sitting down. ♂ back V-F-E.
♀ just shows wape while sitting. ♂
flies off again. Mate. Then ♀ does.

April 3 III

O or L bud back Think it is O.

5:51 Just standing, hunched up.

Majori pause 5:52. One of last to go up. Quail breaks up Bud lands in L-area. Get the O bud. J.C. W. bud back in O Both just standing.

Bud back right also (I think bud far left must be A)

God, what a dull morning. Bud in L-C ten. walks left, pecks at ground, flies off 6:00 Pan down left. Tentative. Fly off (or just). or? back, flies off again.

Looking right for a while.

There is absolutely nothing there except that one single bud H or J I suppose. Looking rather more wide awake than previously.

6:10. One J.C. Relaxes

April 3 IV

Copulations on beach very rare today.
Frost doesn't seem to be melting at all

I gone now - Only A remains now -
He is gone 6:18. I bird back alone Does

III F on beach - 6:22. Just stands.

Pair left. Probably cc. Preparing.
Q flies off. ♂ just stands 6:35 Does a little
preening. One rather weak G.C. Shows nape in
E as Q lands. Then F. Q in F later, then
another F, after ♂ back in E. ♂ Cps.

Both in E. ♂ advances. Q retreats, flies
off. ♂ relaxes. Standing very hunched up.
(This is bird with hanging right wing).
Clear means & V at flying back. Shows
nape & then V's mean, but flying and
pines on. Then vigorous G.C.

April 3 IV

Pair & single bird to right. All
just passing. Then another single bird
further on H-T-K?

Mutual at C. ♀ in flight. ♂
flies off (provoking H to G.C.) Back unaid.
♀ in E. ♂ = then starts to preen. ♀ is a
FD noise. ♂ keeps on preening. Tail
feet & neck down. Preening gets faster (more
choking like). While doing this tail is
moderately raised; but breast is not
lowered. Finally ♀ flies off. ♂
stops preening unaid. Starts to preen.

(Was his tail raise in any way connected
with damaged wing?)

♂ C ♂ makes one G.C. 6:54.
Puls at ground several times. Then just
starts.

H joined by mate. Does F away from
direction mate comes in Both fly off.

April 3 IV

One back alone used. Walk around. Falls
at ground. Joined by ♀. ♂ in E earlier & out
earlier. ♂ in E. ♀ fly off. ♂ involved in
Flying dispute with J. Retreat. Then ♂ pair
fly off. By this time C has gone also 7:03

Watching pair in distance. ♂ appears in
climb or scrape posture. ♀ walks to him. ♂
♂ dashes at neighbor, chases it off. Walks
back in E. Then jumps on ♀'s back (without
no preliminary HB) Long mutual copulatory
attempt, apparently successful. ♀ made a few HB
movements during this. Finally gets off.

Both E-IV

H or J shows rape as ♀ lands. Mutual
fly off. Back. ♀ just in E. ♀ HB
♂ walks away finally regains. (tail
not high) ♂ usual. attacks neighbor
Both fly off. Both back, neighbor driven
off with it. ♀ peels at ground several

April 3 III

times, interspersed with FB. ♂ flies off.
Back as ♀ shows wings & HT. ♀ FB Fed.
♂ off. Back as ♀ shows wings & HT ♀
FB (considerable HB) Either nibbles at ♂
or wings bill on him. Then ♂ FB (call & slight
head movement) in E (no HB). Jumps on
♀'s back. Immediately dips off. Then both
in E. ♂ walks away in E, ♀ relaxes.
Both fly off.

I think that ♀ did exceptional
amount of picking at ground & head shaking &
during above performance. Presuming movement
Did ♂ do it also?

Back 17:16. Preema. Mutual
(Cowbird, ♂, ca F much longer) ♀ FB. Then ♂ dashes
off, attacks H, both fly off. ~~FB~~ ♂ back
♀ put shows wings in E. ♂ in E. ♂
attacks H again. Both ♂ fly off. Back
♀ shows wings. ♂ in E. Walks away.

April 3 VIII

Start to moon. Open back to ♀, who
FB. Both HF. ♂ walks away. Flies off
♂ back, pulls at ground. Both E.
♂ walks away, back. ♀ FB. ♂ moon.
Walks away in E. Walks down bank
Back to ♀, back to bank (when on slope
of bank tail is very high, is this purely
mechanical necessity?) ♀ standing
quittered. ♂ eventually releases a little
♂ pulls at slopes but on ground.
Down slope of bank again. (Is this to
clean bill ????) Back. Feet at
ground, seems to be well unpin. ♀ asleep
Walks up as he approaches. He seems agitated.
7:25 ♂ VOF as it flies overhead. Then
walks to where it has landed, dust it off,
flies after it. Back. ♀ doesn't display.
Both moon, ♂ finally flies off. Back with N.A.

April 3 ~~IX~~

call. No display at all Both pieces
♀ flies off. Then ♂ does 11:31.

Angle & bud back 11:35, also nudge
C bud. Both just standing. T walks to
H, chokes, advances further, chokes again
(can't hear noise) H chokes in return. T
walks back. Q lands Both mutual CQ
2 F's to ♂'s one. ♀ flies off

CC apparently back. Retreat before
F of C. C chokes a little more. Chokes
T in choking posture as H pair land
CC gone.

Look up to find both T pair there.

WB. ♀ FB. ♂ flies off, back Q just in
E. ♂ peels ground on just landing. ~~Travels~~
Mechanical flies off. Back. ♂ F Q just
to him FB. ♂ walks to HB pair (where
Q has been FB). Both H choke. T walks

April 3 ~~4~~

away. ♀ continues FB (much HB from E)
♂ starts to FB (in E, practically no HB)
Jump on ♀, slips off unmed. Both in E.
♂ walks away in E. ♀ follows FB.
Both areas AF (not synchronized) ♂
preens occs. Both off. ♂ first

One ♂ back 7:45. It preens
quite preening, as are ♀ pair. ♂ walks
left in ant E. Flies up, back with slight
N.A. call. Does F unmed. Then relaxes.
Then flies away again 7:51

It buds on ground where the
2 birds used to be at first. Seem to be
practically all preening. Communal area?

♂ back. N.A. call. Then
starts, giving a few short "prr" like
calls. Turns right around & shows
rape as ♀ land. Both give a rather weak

April 3 ~~IV~~

mutual. ♂ flies off, back. ♀ in E, showing
wings as he lands. No display. ♂ flies off.
Back. ♀ shows wings. ♂ walks around in E.
Then adopts wrap or choke posture (can't
hear any sound) Peeling at straw?

Both fly up. ♀ past 7:57.

Seems to be an upflight of birds
in communal area. (D-DD-N old area)
Were they driven off by rightful owners

// C twice visited by ♀.
Apparently not amused. Typical
mutual displays each time. But
C seems aggressive, ♀ afraid. Once ♀
circled hesitantly around C, in F all the
time but periodically flicking head away
from him. Sort of HF in F. Each time
♀ finally flew off as C advanced in E.
♀ once or twice gave FB after mutual //

April 3 XII

Peruliar day. Nutsy & sunny at
same time. Frost melted now 8:05.
I back, chasing off intruder. Then
stands C, who is practically in front of
hole, has begun to give vigorous G.C.'s
I flies off

|| C joined by ♀. Mutual. ♀ gives
one more than ♂. ♀ FB twice. ♂ flies
off. swoops repeatedly. Back with N.A. call.
♂ F's at level. ♀ just in ♂'s hooves.
♀ now alarmed, doesn't FB, retreats
♂ flies off. Back off hooves. ♀ flies
off. ♀ relaxes, stops hovering around.
8:12

I pair present
C flies off. Back with N.A. call.
♀ joins him. Mutual. ♀ in F loopy. ♂
starts to preen vigorously. Both G.C. at

April 3. 1844

flying bird. Pair by steps. One carries
straw. Both start to peck. One of the
birds again collects lots of twigs & deposits
them. Is this ♀? Both of C at
flying birds. Bird that collected twigs
seems in E much of the time. Remaining
less than mate. 8:20.

Sudden panic 8:22. Rita?
Quill breaks up, but stump pair
don't come back. Another panic 8:23.
Quill breaks up. C back 8:26.
Another panic 8:27. Breaks up again.
But not very thoroughly.



30

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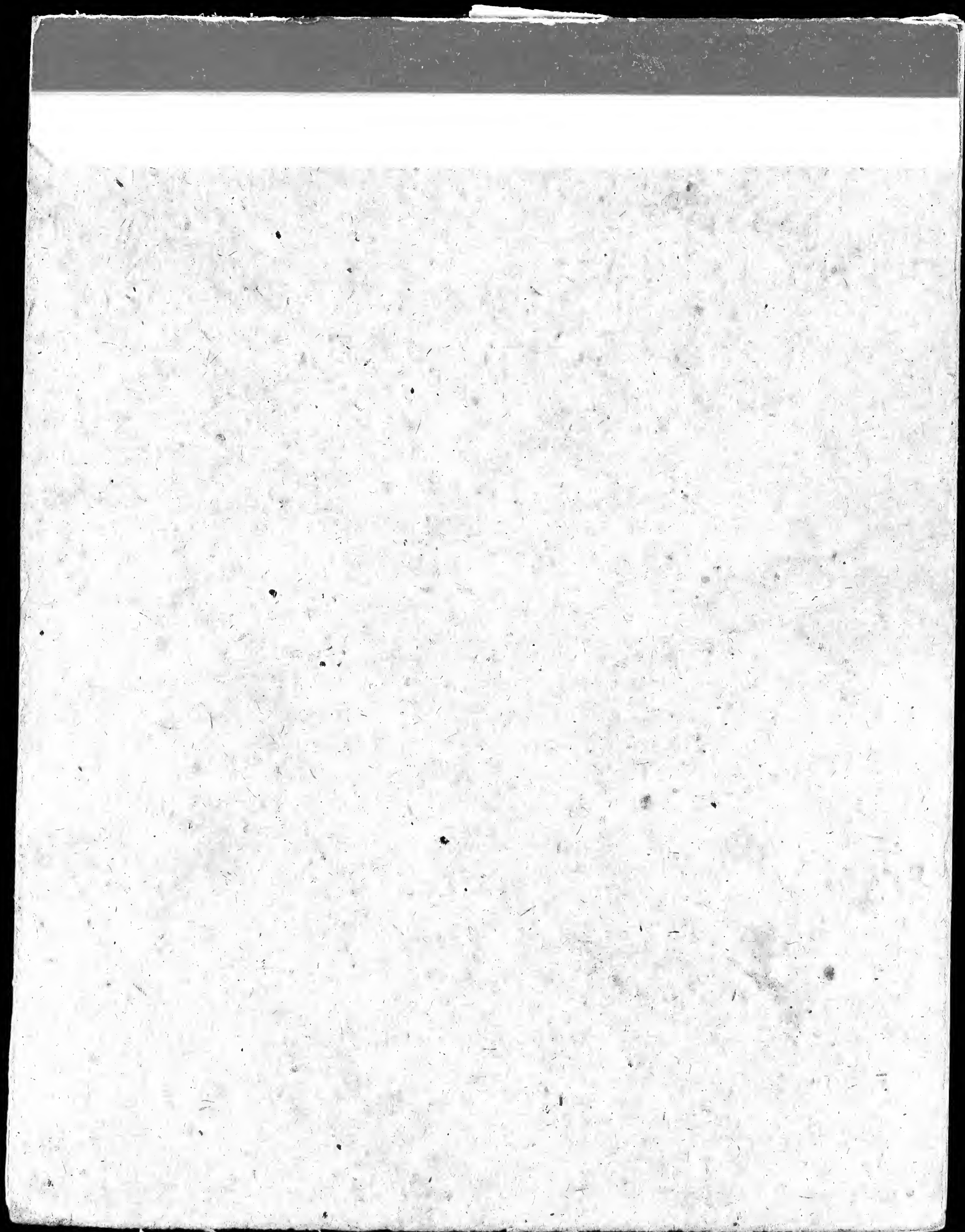
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MADE IN

ENGLAND.







Friday
April 4

Arrived tide 2:40 p.m. Warm
cloudy.

Arrive unaccompanied. Gulls
don't go up very much on barrier. None
on mainland yet, except 5 2:45.

Just preceding, he is (possibly he is H, but I
doubt it. In E (uttering a series of sounds).
Then both F? After's away unpaired.

♂ back with Na call. ♀ shows rap. ♂ in
E. Both peck at ground, both fly off.

One J back? Rather far right.
Alone. Does F on landing. In this R.

J back alone now G.C.

One of the birds by the stump now 2:57
Goes again unpaired. ♀ flies off later.

April 4 #

A joined by mate. Mutual, ^{♀ FB} ♂ flies to water. ♀ follows. Continue FB, with no result apparently.

Did my putting roof up frighten gulls? Don't think it could have. Only a pair on whole mainland now 2:55

|||| One example of momentary mutual FB on water

Notice gulls often give "N.A." call when landing on water. Observed aggressive

I am fairly certain C is floating on water in front of hole. Very relaxed, looked a rare blue. seen at a flying bird. 3:03
Yes it is C, damaged wing.

I back being noting
No copulations on beach seen.
Very dull so far 3:12
Unsuccessful copulation on beach.


~~~~~<sup>♩</sup>

April 4 III

20

A gull swimming on water. Semi E  
prattles. Giving Attack call. 2 birds  
retreat before it. Quills droop

T & C both gone now. T back.  
C & Q back swimming. Quills  
droop. Then J.C. Actually it is C & Q.  
Starts preening.

FB on water. A constant chirp  
bills preen. Q preens also. Occasional J.C.  
Not very intense. Mostly preening

Pair O back 3:32 Landing in  
E. ♂ off, then ♀ goes.

Pair L back. ♂ lands first in E,  
shows nape, as ♀ lands in E. Both start to  
preen vigorously 3:37 Both fly off, as another  
bird lands near in F. Is this L? It  
starts to preen. A fourth bird lands this side  
stump and starts to preen. Is this L? 3:40

April 4 ~~II~~

This bird L shows rape as ♀ lands.  
♀ in E. ♂ goes back to preening. ♀ remains in  
E, looks at ground twice, finally starts to  
preen also.

C sound as day

Suddenly L ♂ & C fly off. O & L ♀  
continue preening. L ♀ gives J.C.

Roof falls down!!

L ♀ doing a lot of preening ♂ & interlocks  
lands. Interlocks fly off. ♂ & ♀ F (♂ with tail  
above wing). ♂ does a couple of little circular  
flights. Each time ♀ shows rape. Then both  
preen. ♀ a little FB.

Pair land on stump. Great deal  
F wing with "L" pair who eventually retreat.  
Both ♀'s FB afterwards. FB wing of L ♀ seems  
to provoke ♂ to attack "L". L ♀ eventually  
fed. Then ♂ HB irregularly. C seems to have



April 4 ~~IV~~

~~11~~ called on both downbeat & upbeat;  
♂ moves ♀. Gets off insect. Peels ground.  
Flies off.

During FB ♂ often peels at ground  
back.

I am totally confused by "L" - L2  
situation. Both pairs present  
Pair right in front of beds. ♀  
FB constantly. I really feel (no humming,  
stute). ♂ flies off to water & joins her.  
Both move off. 3:58

Christ! How shall we get?

B C, "L" pair, and one L2 fly  
up. Why? Warn't me. Other L2 goes  
"L" back moved. ♀ in momentary F. Both in  
B. Thick bird lands. Lots of Fing. Both  
members of a pair & together

Once one bird peels at ground.

April 4 VI

One of "L" birds, the ♂, in choke or scrape,  
posture. ♀ FB. Then both preen. Third bird,  
L2, has been joined by mate, then fly off 4:05  
♀ "L" flies off. Back. ♂ shows rape both  
in E. Both preen.

Note that if any part of mutual  
ceremony is performed at all it is E. Why?

Both G.C. at flying bird. Mutual  
HF. ♂ makes begins to preen. Sounds like  
FB call, both fly off 4:12

♂ bird back down. Does  
several F's. Provokes L2 to F and  
choke both. seems as pair land on feet  
of bird. CC or G. Both preen  
♂ makes single FB cry in submissive. Back  
to preening. Does some more FB. Then preens  
again. Still ♀. Both fly off, ♀ first 4:20.  
FB at J. ♀ probably submissive.



April 4 VIII

sometimes in E. Eventually fed. ♂ would  
flee off. No aggressive behavior while I could  
follow him. Back. ♀ HF to show nape  
as he approaches. Both in E. Then both  
peek at ground several times. ♂ walks  
to bank. Hands, tail in air (due to slope).  
♀ flees off. ♂ follows. One back mount

Another bud-label. One advances  
in F, other retreats in E, flees off.

Notice them when bud label,  
it is rather pitched forward. (hence I been  
describing this sometimes as choke or F-  
posture?)

Heard. Judge ♂ bud now - 4:28

Leaving myself 4:40

NW

N

I

Saturday  
April 8

Arrived bird 5:00 a.m. cloudy.  
Moderate T°. Gulls on beach & water  
start to settle rapidly. Mainland  
birds, as usual, no late.

Stack 5:15. Joined by mate. Both in  
E. ♀ FB. ♂ runs away in E. Fly off.  
Back. ♀ HF as before in, showing nape.  
♂ walks away in E, but head; ♀ FB  
with HB; ♂ flies off. ♂ back as  
intermediate land. Later driven off by F's  
from ♂ & ♀. Both in E. ♂ HF repeated.  
♀ FB (in E), ♂ walks away in E, (pr),  
both fly off. 5:20.

Now no birds around except K  
or N. 5:27

Stack Walks along in E. Vat  
flying bird. Walks left in E, not very extreme.

more example, little response  
from ♂



April 5 II

Then tumbles back

Pair back left. ♀ FB in submissive posture. ♂ moves in, walls away, ♀ flees ♂ flees off. Back again, ♂ first. Mutual ♀ in F longer. Fly off to front hide. Some display. Both holding quiet. ♀ flees off.

♂ screams, shows wings, as she returns and ♀ does momentarily. Both preen again. ♀ peers at ground several times. This must be pair I used to call C and Rita has called Q. 5:33 ♀ flees off. ♂ starts to scream the moment she leaves. Quietly

quits down. Then Q. C. F as Q lands. ♀ does 2 F's (so is in them longer than ♂) Both E. ♂ flees off. Then ♀ does.

I think they may have come back left. Anyhow pair there. ♀ FB. ♂ feeling good. Pair doing something at "i" area. Quiet

April 5 III

bird chokes. ♂'s of both pairs peck  
at ground while ♀'s FB  
suddenly. Pair on stump, L, Back! One  
flies up. 5:40. Finally other L flies off.  
10 & 11 bird back Both preen.  
flies off. Then L remains in F before mate  
leaves Both in F Both preen. One flies off.  
♀ back meaning starts to preen  
immediately. Quite intrusive. ♀ F as ♀ leads  
some distance away. ♀ F, walks to ♂. ♂ in  
B, C, M, M. ♀ remains in F, then E, HF. A few  
FB, starts to preen also ♀ pecks at ground.  
flies off. ♂ follows. 5:52.  
all birds but single L gone now  
It is just standing quietly on stump. Occasionally  
preening. Finally flies off 5:59.  
Bird back meaning in Casa, flies  
off again.  
Single T & K pair not doing much.



April 5 IV

CC is land with hanging wings

One K flies off JF's & attacks bud that starts to land nearby.

~~Back~~ back again... This is CC. She rather swoon sounds to keep. Pells at ground. U-F as Q lands (F bent away from her). Both mutual (Q in F long). F-HF J flies off. Q does not display. JF at Q who is choking. CC's walk off Q preserves. J had produced previous

L, C?, C, & Q, single buds present now, all quiet. Just 3 fly off at same time. Q remains quiet. C & means at flying bud. 6:10. Again. Walks right. Then left. CC lands with F. Q swoons & chokes (tail not high). Q J lands Q FF. CC chokes (tail not high) Q Q is jpl. J makes a few HB as Q keeps FF. Pells at ground several times (looks like not now).

April 5 II

of regurg). ♀ continues FB (submissive).  
♂ starts to FB (practically as submissive as  
♀). ♀ flees off. ♂ flees off

C just peering now. O & L just  
standing. 6:15 C & O remain. O does  
F as abductor and leads. Then advances in  
normal posture. Intruder flees off. 6:17

Gulls don't seem to mind  
wood pigeon & starling's feed on them.

Long dispute at O. Series of F's.

E-HF in between. Then O chokes on  
wings. Intruder flees off

Disputing between C, steeper,  
Q pair. C chokes vigorously after wings flees  
off. Dispute now seems with Q pair. Q  
♀ w/ FB vigorous. Q ♂ w/ E. Q pair  
walk away. Q still FB (quite submissive).  
♂ does a few FB movements (quite submissive).



April 5 IV

When HB develops. Head gets higher each time, irregularly. Call on downbeat. Jumps on ♀. She ~~does~~ stops FB. No fall-off. Meanly. Copulation attempt sets CC off on more choline. ♀ ♀ dashes toward CC, chokes. Then one ♀ flies off. I turn ♀. Back. FB. off again @:20

Good deal of dispute in Ori region. Mostly F's. One loud chokes. Another bird runs away in E, with moderate then weak.

5  
Circular. L pair have been having little mutual flights. Some mutual display. ♀ walks back. ♀ FB. ♂ walks away, ♀ runs to him, FB practically in sub-umbone. Feeding? ♂ starts to FB on semi-sub-umbone. Gradually neck gets higher. Irregular process. FB continues irregularly. Not much or no CB.

♂ jumps on ♀'s back. ♀ stops FB. ♂ means? (couldn't hear). ♂ stands, a

April 5 III

minute. Down on tarse. Starts beating wings. ♀ FB once or twice. ♂ chirps & must occur. utters something, but can't hear.

Agitation gets going, cloacae come in contact 4 or 5 times. Long pauses in between when ♂ sits quietly with folded wings on ♀'s back. Finally ♂ gets off. Both in E. ♀ peels at ground. Both fly off.

FB out. ♀ FB from E. Finally fed. Continues FB. Fed again. Both in E. ♂ walks away, flies off, ♀ follows at 4:45

At the moment, O, L, & CC are very quiet. Then a jowling ♀. Mutual ♀ has one more F. Both in E. ♂ walks away, ♀ follows. ♂ chirps. ♀ F. Then FB. ♀ walks away in E. ♂ preening some chirps. ♀ flies off, or relaxes.

♂ back. ♀ chirps. Walks along.



April 5 VIII

relaxes. Rump. Flies off, as does CC.  
CC back unmed.

Birds on night very quiet. H. 5 pairs  
K? 5 pair of widgeon. ♂ pressure. 6:55

CC remains, HF, as L comes down  
Then prolonged F as C keeps latter  
walks away in E (mod. thick nest). CC  
starts to choke and ♀ pair leaves. ♀

♀ FB, fed, flies off then ♂ does 7:02.  
CC back to pressure.

L ♂ on stump, just landing ♀  
walks around FB (mod. sub.). ♂ flies down  
♀ FB (sub.). ♂ regurg. ♀ eats. ♀ continues  
FB. ♂ with high neck, not really the same.  
Then regurg again. Both fly off

Only CC around now - 7:09. Not  
doing much either. L pair back. ♀ F. ♂ flies  
off. ♀ G. C. stands F as ♂ birds.

typical

April 5 IX

♀ remains in Flange, than ♂. Both relax.  
C? levels. Provokes F from C who  
then flees off. C walks toward L pair  
who F. C back. One L flees off. All  
relax. C flees off. Roof falls down!  
Other L back. 7:14 Flees off Back!  
Mutual B. Both preen.

Roof falls down again! Wood  
coming up. Still no sign of smoke

Wood pigeons fighting in the  
distance. Quickly break up

C joined by ♀. Mutual, both  
fly off 7:25. Only single L left on this  
side. It flees off now. Sudden panic

7:25 Trials up quickly. C back. Stand  
alert. Fly up again. Was this panic  
caused by shot in distance? Slightly  
delayed reaction, if true.



April 5 ~~19~~

Only J's back on mandarin now - 7:28  
♀ FB in nest. ♂ walks around in E after feeding.  
Flies off, circles, last to view - ♀ stands a  
while. Then flies off also - 7:30

H or J back. Practically silent approach.  
Just stands G.C. to flying bird. Febrer.  
Walks about. Pulls at ground. Think J is ♂.  
Roof falls down!

Gutter (very) dull now.

J does repeated G.C. at flying birds.  
7:37. F as intruder. ♀ arrives. Gutter  
off. Both J remain in E. ♂ out fed. Both  
E. ♂ flies off, back, mutual, ♂ off again  
Back. ♀ in E. ♂ N.A. call, now. F ? in  
E. Both preen. Mutual F. ♀ flies off, back  
with N.A.; both in E. ♀ FB. ♂ walks away  
in E. ♂ choke, ♀ F at flying bird. ♂  
flies off ♀ quite relaxed when ♂ returns. ♂

April 5 XI

Back with a ♀ shows nose. Both E.  
♂ walks to back (tail high, pruned, webbed).  
♀ relaxes & continues promenade. Peeks at  
ground once. ♀ flies off. ♂ remains in same  
alert posture 7:41. Peeks at ground several  
times. Relax now. Goes on pedaling. Preen.

Roof down again!

♀ back Mutual. ♂ off again. ♀ preens  
♂ back (♀ does away from him as he lands)  
Mutual. ♂ off again

No sign of other birds by hole.

Left after panic apparently.

Remaining ♂ doing absolutely  
nothing at all.

Leaving myself 7:55.



V

Sunday  
April 6

Arrive hide 5:00 a.m. Clear. Moderate temperature. Gulls (mostly) go up as it takes time to get into hide; roof down, etc. Don't go high. Start to settle fairly quickly.

Repeated panics. Large numbers of gulls down far north & left water 5:10.

More & more coming down all the time now - gulls on main land, as usual, are landing.

Gulls on mainland far right 5:18  
They always seem just to come back. Are other gulls frightened by hide? Still no near mainland birds back 5:27

Minor panic 5:31. Quietly breaks up.  
No birds on left mainland at all.  
What has happened? Not even birds past  
A few come back (we aren't even there, when  
we arrived this morning, fairly certain)

April 6 II

Watch birds on beach for a while. Large amounts of FB, quite a few copulations

On H back 5:45 Walks right, must be J. Joined by mate. ♀ FB. Both F at water, ♀ FB more (from E) ♂ runs around in E. Flees off. ♀ unwed begins to preen V, mean, means rape in E - HF as if lands. FB again, more HB and more sub-mimic ♀ head shakes & preening in midst of FB. ♂ makes FB calls & head toss in E. Walks away, to bank. Then both fly up 5:50

On back, unwed V-mean. Stands. Walks around. Looks around, quite alert, walks some more. Then flies off 5:54.

Back. Intubates ♀ lands. He starts to FB with HB. He unwed. runs away in E. She follows, FB all the time. He makes a few regards out. more. Then flies. ♀ unwed. relaxes.

K pair & intubates back. Dispute. Intubates seems to be J or ♂. He must be ♀ in E.



April 6 III

She pays no attention. ♂ begins to preen.  
♀ flies off, then ♂ does.

One back with rudimentary N.A. call,  
noting but a few keeps. Stands. Runs around  
5:58 Then flies off.

Sun going behind clouds 6:00  
♂ back Stands. Off. Back with  
rudimentary N.A. Is this H? Single bird to  
pair to right. ♂ & ♀ pair? All preening.

Then bird off again. Back (would)  
Run around U-mean at flying bird. Stands.  
♀ C to bird who lands by ♂. ♂ F's and dives  
off. Then it flies off. 6:07  
Full back

peculiar performance. ♂ joins by ♂.  
Large series of U-F's, some synchronous, some  
not. Much walking around in E. ♀ HF  
several times. ♀ adopts extreme Choke or scrape

Not sitting down or leg-lifting

April 15

posture. Could not hear any humming. Bill  
certainly closed. One flew off. Was this really  
pair, or hostile encounter. Seemed to be pair.

Pair back on stump left of A. 6:20.  
FB at J. ♀ just FB, then more  
submissive (as usual?) ♂ regurgitates.

Flies to water. Bill dipping & head shaking  
♀ joins him. Does same. ♀ FB a while. Then  
decides on 6:25.

J, J, K's all gone now. pair  
maggie and beck. ♀ pulled by ♀, who FB, ♂  
flies off. Back with N.A. ♀ HF took over  
naps. ♂ in F ♀ present. Then ♂ walks  
toward her in F (I think provoked by J pair  
who advance in F). ♀ HF FB. ♂ walks to J's  
in F. Much Fug (chase between 2 males)  
Both J chase (♀ more than ♂). More Fug  
Orientation either toward, parallel, or away from



April 15

opponent. Del of H FB every time of faced  
her in E? ♂ was conspicuously pecking at  
♂ picking up, leaves & twigs in semi-crook  
posture at one time. Another bird lands,  
divers off by ♂ H, both fly up. Then ♂ J  
advances on ♀ H in E, latter retreats ♂  
H returns. Quees as before. This time ♂  
H chokes in return as J pair choke  
General flying about. Now, 6:37, both  
pairs preening peacefully. H's fly off. 15?  
does. One H back.

K pair gone. H preening. 15 preening, 1 ♂  
asleep 6:45. Looks as if the peak, if one can call  
it that, of the morning is past.

Then H gently mate. Both in E. ♀  
FB with KB. ♂ runs around in E Peck at ground.  
♀ head down, one preens rapidly  
momentarily in middle of FB ♂ preens (relaxed?).

April 6 VI

Both fly off. Wings and back practically unraised,  
10:46.

A back for a moment?

It walks around a bit, pecks vigorously  
at ground. Fairly certainly ate something.

flies off 10:50 Back Presumably off again. Back

V certainly seems to alternate with

F on water during disputes

CC now seems to be swimming right  
in front of hide. Blaming on him! Why doesn't  
he copulate?

One aggressive looking on hearth.

Wings spread, body slightly tilted, head down,  
tail very high indeed





April 6, ~~VII~~

Nottingham on mainland 7:15. A great deal going on on bedrocks, but I can't get a good view. Lots of buffing & depression chalking. Some mapping.

Many more examples of U-shaped & alternate with F on water. 7:22.

Leaving myself











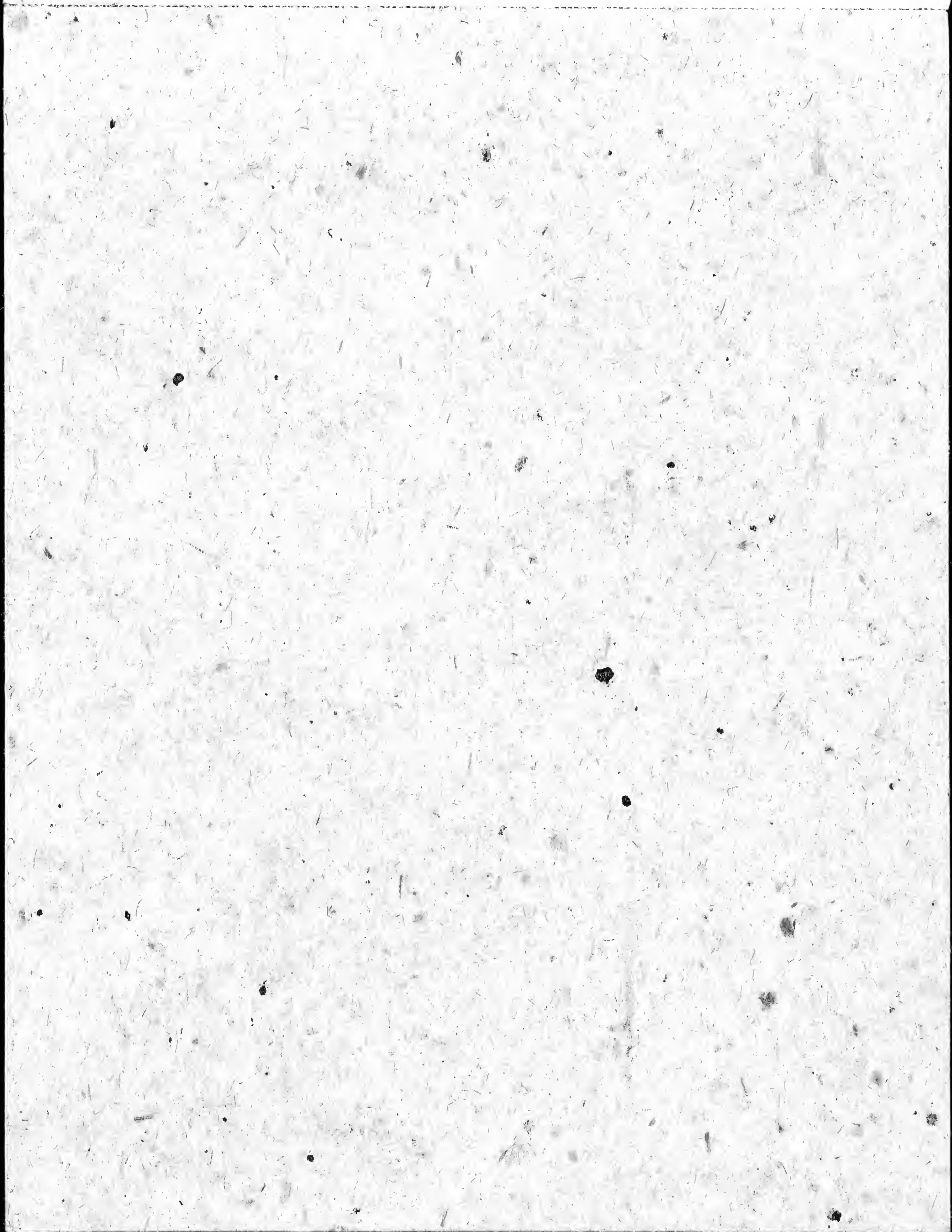
Dear Mrs.

I have just received the four  
memos which you have sent me. I am at  
the present time spending 5 months here in  
Norfolk doing zoological field work. I would  
therefore, be impossible for me to come to Oxford  
for an examination on April 23rd. Could you  
arrange for me to take the examination, some-where  
near here, at Wingham or Watton for instance?

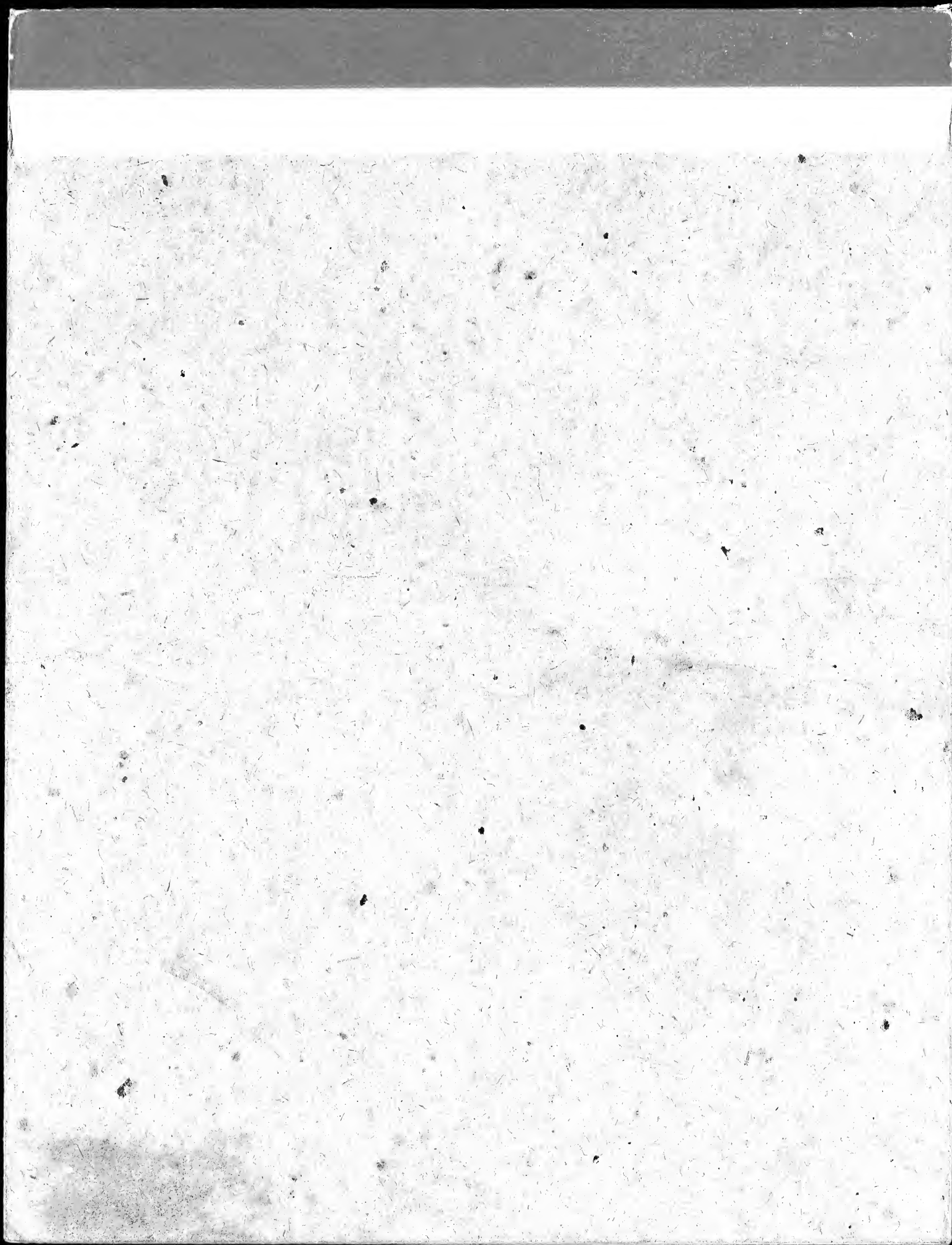
There is one thing that ~~rather~~  
puzzles me about the form you sent me.

It reads rather as if I had not yet begun  
treatment. You are aware, I <sup>trust</sup> hope, that  
I completed the treatment practically two  
months ago.

I have put my new mailing  
address at the bottom of this letter.











20

II



F

Wednesday  
April 9

Arrive hole 5:00 Warm. Clear at  
the moment. Fair time to get in. Gulls  
go high. Coming gradually lower now - 5:12.

Coming down on beach now - 5:15

Copulation of means appearing along  
tail wing as it falls off.

QFB in water, flies off, attacks  
meopiles.

Foto of sea water.

Notes of copulations & chiding on  
beach

Immense fall cop. without prelu.

A. p. p. p. q. back. If unred. Then well  
around alternate with prelu. at ground  
level like ch. int. now.



April 9 - II

Following experimental Appar. No. 18.  
Hands

Lots of mutual FB in one pair. FUEB,  
only one of two FB. Polaris

More nest-building on health

Time 5:39,

Chasing. Followed twice by actual  
attacks. 5:42

U+V alternating by aggressive level  
on health

Unsuccessful copulation. Followed  
by pecking at ground (rather common)

Another pair 5:45

Female makes several abortive  
attacks at 5:48.

F usually keeps bill closed  
during copulations. Ind. equal is E  
by one or both birds.

April 9 III

When regurgitating, ♂'s usually have caudal  
joints somewhat raised?, or at least not buried  
in scapulars. c. 08

Q FB, ♂ regurg. as usual Q ante.  
♂ dashes to right hand border. Both ♂'s  
U-F repeatedly. Turn one another & parallel.  
Int. mov. choking? Chugual ♂ walks  
away. Q FB again.

(subalton)  
Copulation half in water. ♂ falls off as  
Q moves away.

Q Choking in defense of terr.?

Two mutual FB Q rather submissive.  
♂ moves away in E, one or a HF, occurs  
pecks at ground, a HF from E. Finally  
regurg. Q ante. Then ♂ ~~starts~~ starts  
to FB in submissive. Gradually walk away &  
get more HF. (I think Q kept on FB)  
Then ♂ jumps on Q sit a minute then



April 9 ~~IV~~

||| Start wing beating & tail wagging. Get off.  
Both in air, peck at ground several times  
6:27

Quite a bit of carrying on in  
company on the ground

↑ Tipting in the air followed by  
pecking at the ground.

↑ Bird apparently depending on, walking  
in air, actual attack, peck U & checking.  
Downy semi clobe several times pecked  
upwardly at ground. Repeatedly also  
pecked head away from opponent. Both  
clearing F & clobe 6:37

↑ Panopanic 6:38. Burst of  
burst cackling noise in a tight flock

||| Two birds chase along side one  
another for some time then one dashes off to  
attack third bird, back, both chase some more, then

April 9<sup>th</sup>

an fight occurs between them 6:44

Major panic as Range falls  
graps out 6:52

Major panic 6:53 Quilley  
breakup.

Feeding at ground by ♂ after copulation  
Feeds with ♂ off.

Several nice examples of ♂'s flying  
up aggressively when ♀ is FB 7:06

Changes of threat behavior during  
along-continued battle. Lots of Ch. 7:10

Pair. ♀ FB. ♂ finally negotiates  
♀ eats. Repeats FB. A few FB in some - 7:15  
When FB subsides, then starts FB. Neck

inflates. Height gradually, much in the usual  
fashion, but more explosive. ♂ jumps on ♀  
back (perhaps once or a couple of times)

Then sits quietly. ♀ walks away, then returns



April 9 VI.

off. ♀ keeps on FB. A WB on water  
Jumps on ♀ back. Moves off as before. ♀ keeps  
on FB near

1-21\* Took up to see of copulation, being  
dressed off by another bird, when I think later  
fed the ♀ N135

Unsuccessful copulation on water.

of standing on water of 1 ♂ FB very often

Many rather quiet when ♀ is

Several birds picking up sticks  
several times on water.

Time 8:02. Very noisy.

Notes.

Twenty birds like seen

April 11 - I

~~Friday~~  
April 11

Arrive - ride 5:00. Gulls go  
high because entry into field takes a  
long time.

Starting to land, on far water, 5:12.  
Minor panic. Pygmy Gulls start to  
mottle

All at the water with a few minor  
panics

A great many copulations on  
beach already 5:15

Watching male and on beach  
Repeated GC - 3 birds. Mutual court  
two prominent HF's) 5:15. hen ♀  
3/4 back. Both off, ♀ just.

Re-start (voluntary) steps  
immediately apparent? ♀ off



April 11 #

M

Follow below on page. 9 levels. 11a  
 whole momentary. 5 FB from E.  
 ♀ fly off. Both both fly off 5:27  
 ♂ both GC toward gas deland. Then E  
 HF. ♀ F after landing then E-HF both  
 present & fly off. Follow FB with HB  
 for quite some time. ♂ back. No display  
 ♂ E. 9 FBs (now out as excited)  
 ♀ again. ♀ starts 1-F-E at ♂  
 on the land. ♂ in E, present & stands  
 in E. Both fly around each several  
 times. ♂ at flying back. ♂ stops  
 following in E. Both F (1st part) Both  
 fly off. ♂ just 5:33  
 ♂ back. Following & GC's  
 usually route. Both fly off. Both  
 fly off. 5:42  
 Both remain.

April 11 III

Flounders of arctic species, Peltichthys, seen off shore of island, pines Bay  
Muller's - 5:49

I think today as a whole is relatively  
westerly this morning. Breeze in sea >

7 A. Cawls. Mutual of TB  
with NB. Flounders away in E. Birds  
heard to be in wood especially. Small flocks of  
Puffins off. At first. Still back in wood.  
Puffins. with just start

Getting colder now - 5:58

Bird collecting in m on beach

Thrushes at stands 6:02

Wood birds perching on slapping now.

Found Cawls on stump. 11 call

in E. At present. Both in E. Both

mean of EB with NB. Flounders lead to

ground. Puffins? Puffins off

S  
200



April 11 IV

Stand back. I am not looking for a  
while as light is so abnormal. Anyhow  
pair fly off around 6:12. One back toward  
Honey window-temp.

S. Pair little aerial flights  
either show-nape or F (away from direction  
partner comes in). Q does F more than ♂.  
Walk together with n call. In E. Pair  
♂ pecks at ground. Both relax to 17 then  
♂ walks around in aggressive E. Pecks at  
ground (looks like hollowing), relaxes.  
Both Q call flying but, followed by  
mutual HF. Back to preening. (Not  
sure which bird is which yet) off to  
mutual HF again.

Finals look in E area. Also  
single bird between L & S. 2 mins off  
A. intertwined with F. Then pair of start 6:22

April 11 IV

♀ S is alone. Both pursuing vigorously  
A bird does 2 F's a bird lands. Bird it  
Latter in E whole time. A flies off. Bird?  
Some distance away. Other bird walks  
toward it in "alarm" E. A does U-F.  
Other bird flies off.

Spall seem unfably placed  
Both of Cat flying bird. A-F

♀ A F-B with HB. A in E. Cpu.  
A walks away & follows F-B in E.  
A flies away in E. & flies after.  
A-F Both was 6:30

♀ S F at flying bird. A just  
to Both was. Both start to go to sleep  
6:35

Looking back at south now  
6:38

Two birds together in distance. One



April 11 III

in extreme Chelony posture. Then both in  
= take head & rise up. ~~Back~~ sweeps  
upward. Back. Note? Shows vapor  
Less tracks in ruffle. (This Chelony certainly  
recovered aggressive)

And a little jolts ground. Chelony  
Dashes at regular who flies off. Falls  
at ground again. I think this is of a pair.

Pair of birds Chelony together. One  
flies off. Birds remain here also 6:48

Not quite a few populations,  
but in great distance

Both 5 round arly 6:57

One now aggressive Chelony  
on earth. Wings & tail up. Couldn't be  
seen when it was directed 7:07

2 pairs gone now 7:11 On water  
in front of hole?

April 11 VII

deal in chick justice on mainland.  
Attached by another who stops, then flies off.  
Chick laid then released (Apparently chick  
introduced) 7:13

Got back with N.A. call. F

U-F-U-F as glands. Mutual ♀ out  
of F later. E HF ♀ head head head head  
head head head head head head head head  
head head head head head head head head  
head head head head head head head head  
after she has gone back with N.A. Then  
flies off with

major game 7:15 Quail

breaks up

population at I but can't  
see it for stamp.

Got back 7:23

~~7:24~~

Another game 7:24. Quail

breaks up

leaving myself 7:30



~~Nothing this morning~~

I

Saturday  
April 14

Anna's birds 3:05 in Mann. Cloudy.  
Weak sunshine.

Gulls start to settle again practically  
immediately.

Span on beach 3:08 Start to enter or  
collect. One pair off the other slaves by  
back row. Copulation in distance. Mann  
after 3:17. One followed by both of  
a pulling at ground. No copulations seen  
3:19. All they were numerous on first  
alighting.

No FB on water in front of hole at  
the moment. Mostly juveniles, however.

Mann gone 3:20 Another 3:20:30  
starts to break up quickly.

April 12 II

Sanctuary of FB was on terrace. It  
ignores his F. piece off

Large fall on water, passing (common  
fall from the entrance?? very delicious)  
Pieces not molested. Then piece up,  
swayed at.

Still no FB on water in front of hole.  
Fall of fall there was

Minor pairs. Pieces major  
3:27 Starts to look up rapidly

Very dull this afternoon, as far as  
birds are watching concerned

Another very minor pair 3:35  
F followed by various peck, on

water

Piece on beach & piece of. Both  
F-E. Q FB once. Then both piece  
sway only by carrying a lot of



April 12 III

birds to fly up.

Exposition followed by a good deal of pinning

Really quite noisy today.

Choking on heat. Apparently almost

at one bird who walks by. A third bird (of  
choking bird FB's own) walking bird finally  
falls off 3:45

Disruptive exposition of FB in

R sub. of FB with steady moderate HB

Then jumps on & back. Humors falls off. Head  
falls off. a piece

Exposition actual attack on myself

followed by choking for a while.

Choking for a while.

Major piece 3:55

It now definitely to be the fever  
who is causing all the commotion 4:02

April 12 II

Starting to observe again 4:05  
Fish on beach immediately across from me and  
along

Fish going on in water beach but  
nothing near enough to see clearly

Major game 4:20. Can't see what  
caused it, if anything. Another one 4:21.  
Suddenly start to break up

Fish on beach. AFB in sand (F),  
then return E, TB near front. Jump above  
G, also flashing or fish pit. If you've been  
FB in substrate. Then both sides.

2 birds on beach chinking  
One bird then does V, attacks other bird  
Both chase. Mate of one bird (call it 1)  
pursues chinking. Then 1 does E-V-F-V (observed  
more or less at same time 2 chokes. Then 2  
attacks general area with chinking 4:31



April 12 V

Another minor panic 4:33. Quickly  
back up.

Some FB on water near 4:35

Prod on beach. Does V-F as if landing.

Long extreme F by both birds. Then both in E.

A starts above wings, puts wings above it, then  
tail above wings again, then puts one wing above

it. While this has been going on a Ke Bee

FB in E, then flies off. Follows

I noticed, in the above case, that

A had ~~wings~~ carpal joint held very  
widely away from body. Extreme. Tail

above primaries <sup>often</sup> ~~always~~ accompanies this

extreme posture = 4:40

Gull flying about carrying large  
masses of wet material.

Another minor panic 4:47

Quite a bit of FB on water near call

April 12 VI

in "hoo-hoo-hoo-hoo"  
or "hoo-hoo-hoo-hoo" etc. sometimes  
"hoo-hoo" or "hoo-hoo"

5:52 back 4:52 (not looking at it  
or a moment) then again. Think 5  
pair in front of hole on water. ♀ FB

♂ back on stump N.A. call. In E  
shows up as ♀ approaches with M.  
♀ FB with HB ♂ flies off ♀ FB once or twice  
more then relaxes, pieces. Flies up

with another minor game 3:58. Quickly  
look back with digit N.A. ♂ on stump.

♀ on ground. Stand then relax. ♀ picks  
up ground, both pieces. Both just stand,  
hunched up. Do a little more moving.

Stand 5:01. Both suddenly nervous. ♂ flies  
off ♀ remains, watches flying bird, then flies  
off.



April 12 VIII

Leaving myself 5:10

Sunday  
April 13

Arrived Bede 4:40. Warm. Windless.  
Cloudy. Still quite dark.

Gulls go high. First gull lands  
4:48 Others getting lower  
General landing 4:50

Gull on mainland north of Bede I?  
Arrived with N.G. call. I saw 3 birds  
there. Some U-F wing. Then 2 of pair  
J (~~K~~) began to FB us. Stops during  
general panic 4:54. Starts again. I  
startly hunched up. Walks to forintuter  
which flies off. Both B then green. One  
flies off 4:59

H just standing rather alert. Remaining  
F is quite relaxed.

April 13 F

K bird does U-F toward mate before it  
lands. Then both immediately start to  
preen. (Little display seen above)  
H flies off. Path 5 run forward. A nearby  
Both relax. ♀ flies off. 4:50. ♂ just  
stands.

2 H's back. Mutual. ♀ FB with  
slight HB from ♂. A shows. Puts  
head to ground. Then both fly off.  
♂ has retreated during this. (Should  
this be H-J or J-K?)

H back with NA call. Other 5  
back. Woolly play. Then original 5 take  
chase posture. Attacks. Newcomer. Both  
stand in E. Original 5 back again. Again  
attacks. Other retreats a little. Both  
stand in E. Both chase. Original 5  
down in chase. Newcomer picks up ground.



April 13 III

Original chokes again. Newcomer  
regurgitates then walks as if alone.

Then newcomer (♂) tries to mount  
original bird (♀) is driven off, flies  
off. Then ♀ flies off 3:05

A pair back Mutual. ♀ FB in  
submissive. ♂ moves, regurgitates.  
♀ starts to FB again, just with MB then  
submissive. ♂ regurgitates ♀ sits ♂  
walks away, flies off ♀ starts, pecks  
at ground etc. Fully relaxed ♂  
walk with MA. No display except  
pecks ground. Walk together both  
piece now.

Many birds to left of hide also

3:08.

Third bird lands by pair. Much  
V-ing - F-ing - a bird choke! Then all three

April 13 IV

seen. Which bird is which. Single bird  
nearest me, pair a few feet further away.  
♀ pair. ♂ FB, just with HB, then  
submissive. ♂ in E, finally gyrate  
with brooding. One flies off nearby.  
Remaining bird does C at flying birds. Then  
flies off 5:13.

Birds in A-O-L region don't  
seem to be doing much.

♀ ? bird back 5:17. Slight  
H.A. call. Stands, shakes head, releases  
Finally flies off.

At least 6 birds in front of S hole  
now, one from S pair!!!!!!

♂ pair. ♂ shows rape in E as ♀  
lands. ♀ F. Then ♀ FB with HB from E, ♂  
pecks ground. ♀ gets more submissive every time  
♂ lowers head. In the end?  
Both stand, once peck ground. Both fly off



April 13 IV

April 13 IV

Three birds feeding peacefully left of  
side 5:25.

H pair. ♀ FB. ♂ regurg with honey  
♂ flies off with attack call. ♂ back with NA.  
♀ HF touches nape as he lands. ♀ one FB.  
Both stand. ♂? flies off. Bird back.  
Quitted by V-F of T-bird. Retreats then  
♂ T back. V-F at retreat as he flies off.  
T ♂ per. T ♀ pick at ground. Then ♂ pick  
at ground. ♂ pursues ♀ releases ♀ U-bird  
chase. (at flying bird) flies off, ♂ follows  
T bird (alone) just preceding. Bud.  
Approaches from N direction in E. T does U  
Both U-F. Pair. New bird flies off.  
at bird back. NA call. Makes  
out plume, pursues, stands. U at flying  
birds (these seem definitely directed at flying



April 13 VII

birds, flies off

All birds left of hole are gone now,  
until I reached 8:34. J & I descend  
a flycatcher then F as Q lands. Then  
both in E. Q chokes (cannot hear call).

A starts in E. (rather than back) Q perches,  
chokes again (can hear screaming, start  
knowingly wheel back) When Q? (at  
least the smaller bird) turns toward  
large one it flinches. Small bird in  
J & I aggressive E, chokes near corner a  
little, and it finally, with obvious  
reluctance, flies off.

J bird walks back a little  
toward its territory (it is with at the moment)  
Hards. Once V Runs away as H lands  
with HA.

Q H lands. Both birds in E. Queen.

April 13 VIII.

Stand 5:40 Q starts to FB with AB.  
F regurg? Both stand. Q head shake. Then  
FB in more submissive posture F regurgitates  
walks around in E, pecks at ground Both  
stand & preen. F pecks ground, walks  
around a little. F does V-F at flycatcher.  
& then returns in U.

Both J together near Q FB.  
F runs to H, F's H's F-back.

General dispute. Q J FB move. F regurg  
H pair preen. F J flies off to water to  
preen. Then disappears. Back. Q J HF as  
he comes in. General dispute with H's

Much V-Fing. Both F's choke together  
then retreat. Back to preening. 5:46

5:49 H F starts to walk around in E  
then preens some more

Swans flying around without landing



April 13 IX

much disturbance

H ♂ flies off, back with Cerythra  
F. ♀ ignores him. I retreat a little

Cc Volk (that is correct) called  
Q called today. Drives off intruder with F's.  
Both I retreat for intruder with  
U's & F's. Intruder flies off. I's present

It makes repeated U's at flying  
birds ♂ back with V.A. Both birds in  
E ♂ FB with HB ♂ Cps. Then pieces

♀ FB gets more subdominant. She circles  
around ♂, who turns away preening.

♂ walking around with usual stretched  
neck. Occas. puts head to ground. ♀ hops  
on FB and flutters. ♂ starts to FB in F  
without HB then puts head to ground.

Some flying. A few more ♂ FB. Then  
♂ apparently flying. ♀ eats, well away.

April 13 75

Both peck at ground, fly off 5:57

Many birds left of hole again

H bird back missing Prevelis T's

to advance in F. H bird pointedly back.

Both retreat On floor. Another bird

lands. H bird & T mean at it. Flies

off. Finally H bird flies off when T advances

in aggressive E, then both fly off.

All birds gone from hole  
neighborhood for the time being 6:05

T pair back. Now they are preening  
intensely

H back with NA call. All three  
birds do mounting F, relax. ♀ H back.

H pair do mutual F, pointed at each other.

T pair F, dip it down. ♂ H flies off. ♀ H  
shows wings with HF as ♂ back. No

display. Then mutual F. ♀ flies off 6:10



April 13 XI

One ♂ always near, uttering. It  
also preening.

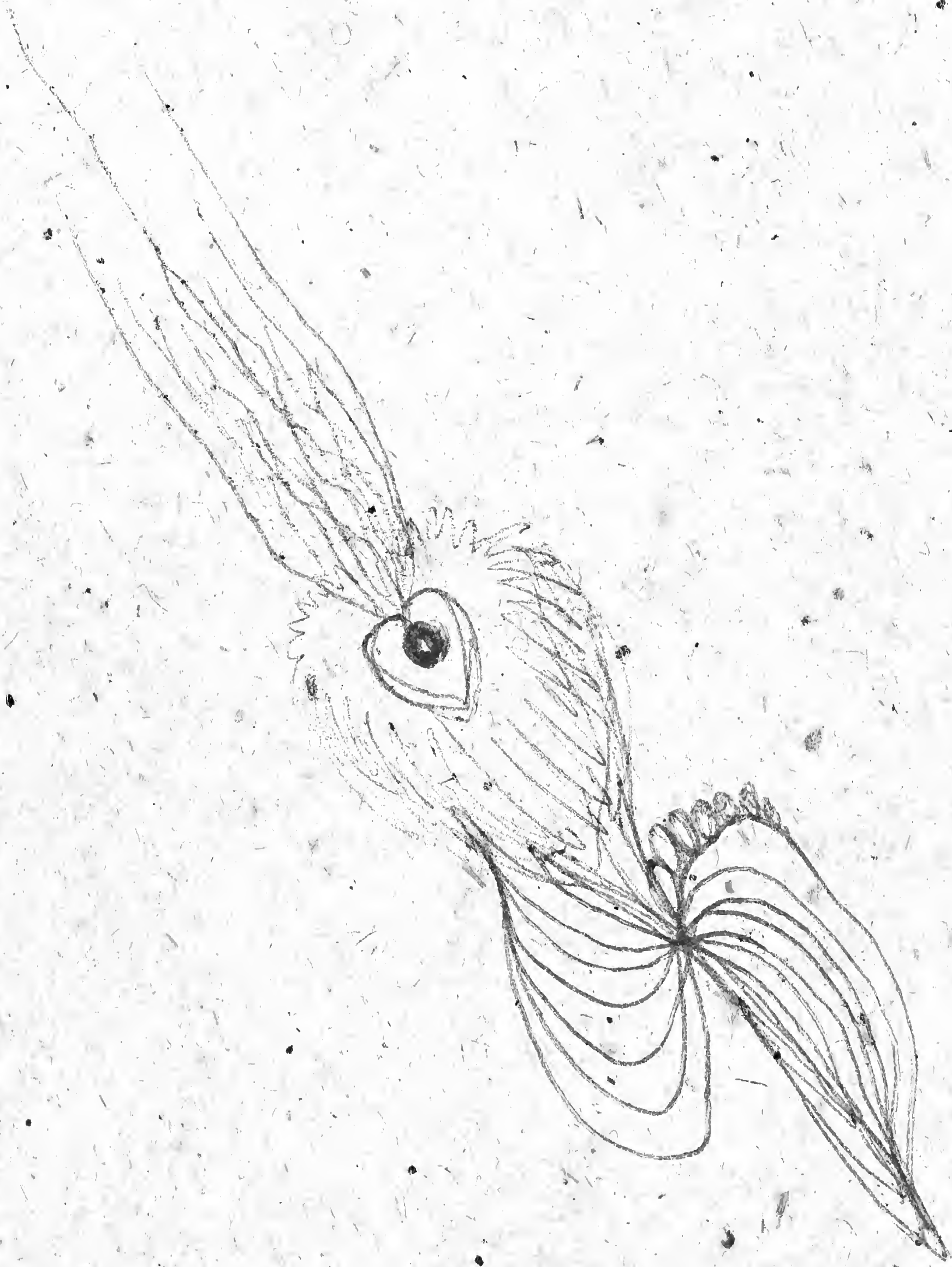
Cost swimming by is absolutely  
unrelated.

Major panic @ 13. Heart buds.  
One ♂ flies up. Other ♂ & ♀ look alert. ♀ & ♂  
do slight F int. mov. As ♂ come back  
open back to preening.

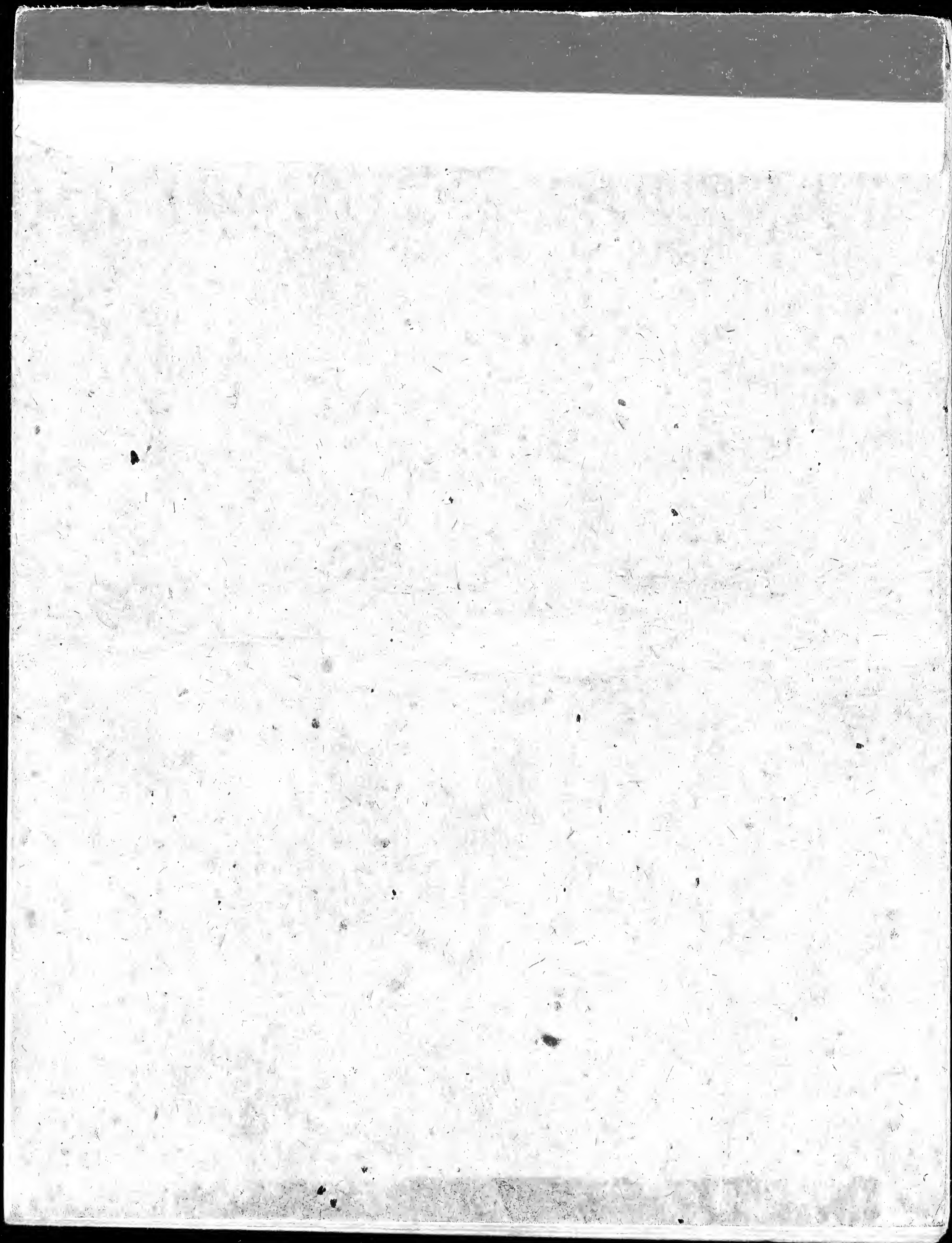
No doubt that these two pairs, at  
least, are beginning to co-habitate.

All three V-F as mutuals (and ♀  
more than ♂) then relay.

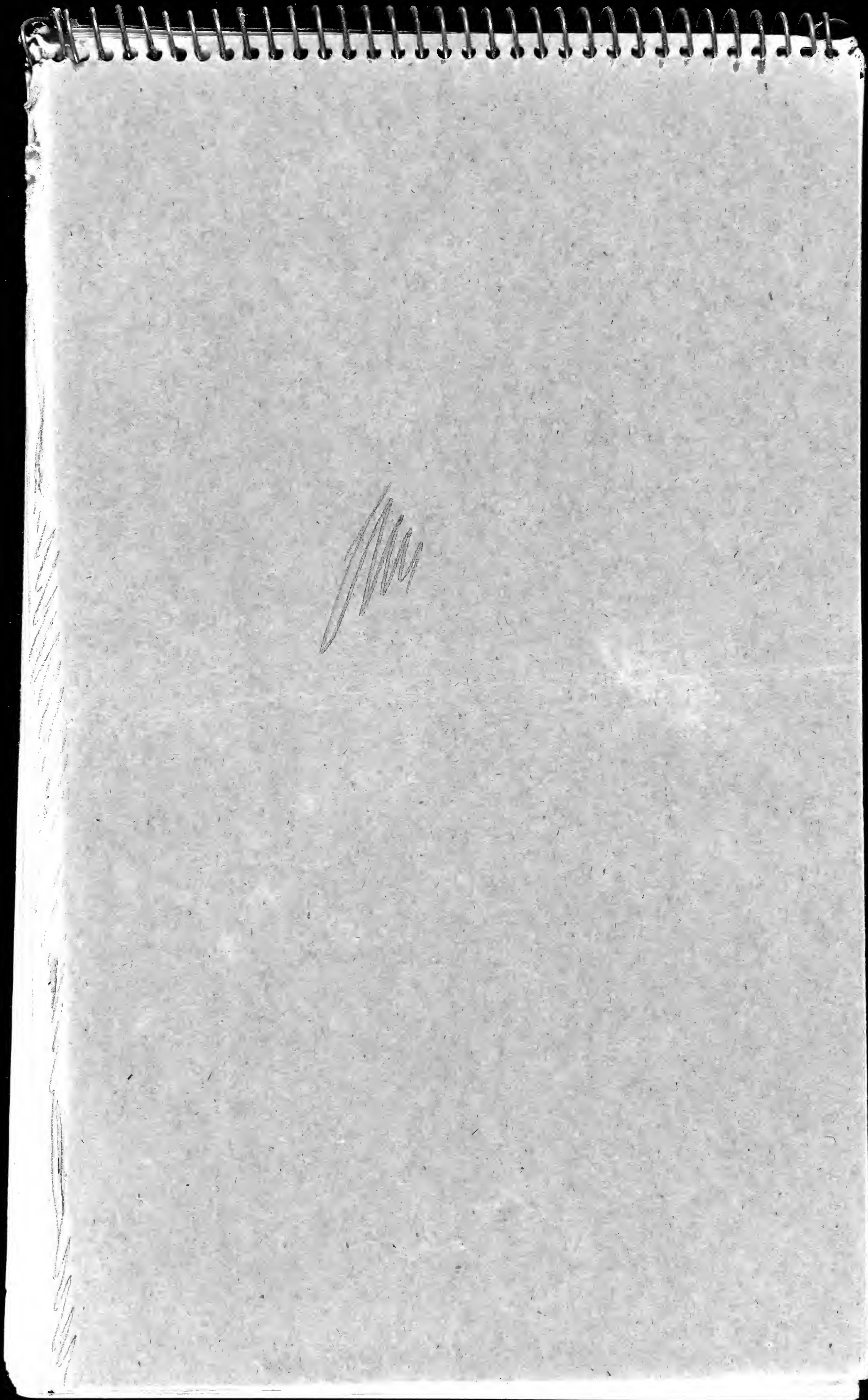
Pair to left of hole are also just joining.  
♀ H back. Long mutual V-F. ♀  
starts FB with ♂ from E. Gets more  
ubiquitous. ♂ moves. Rejoices. ♀ acts  
of HF. ♂ flies off, ♀ follows.  
♂? back immediately with N. A call.



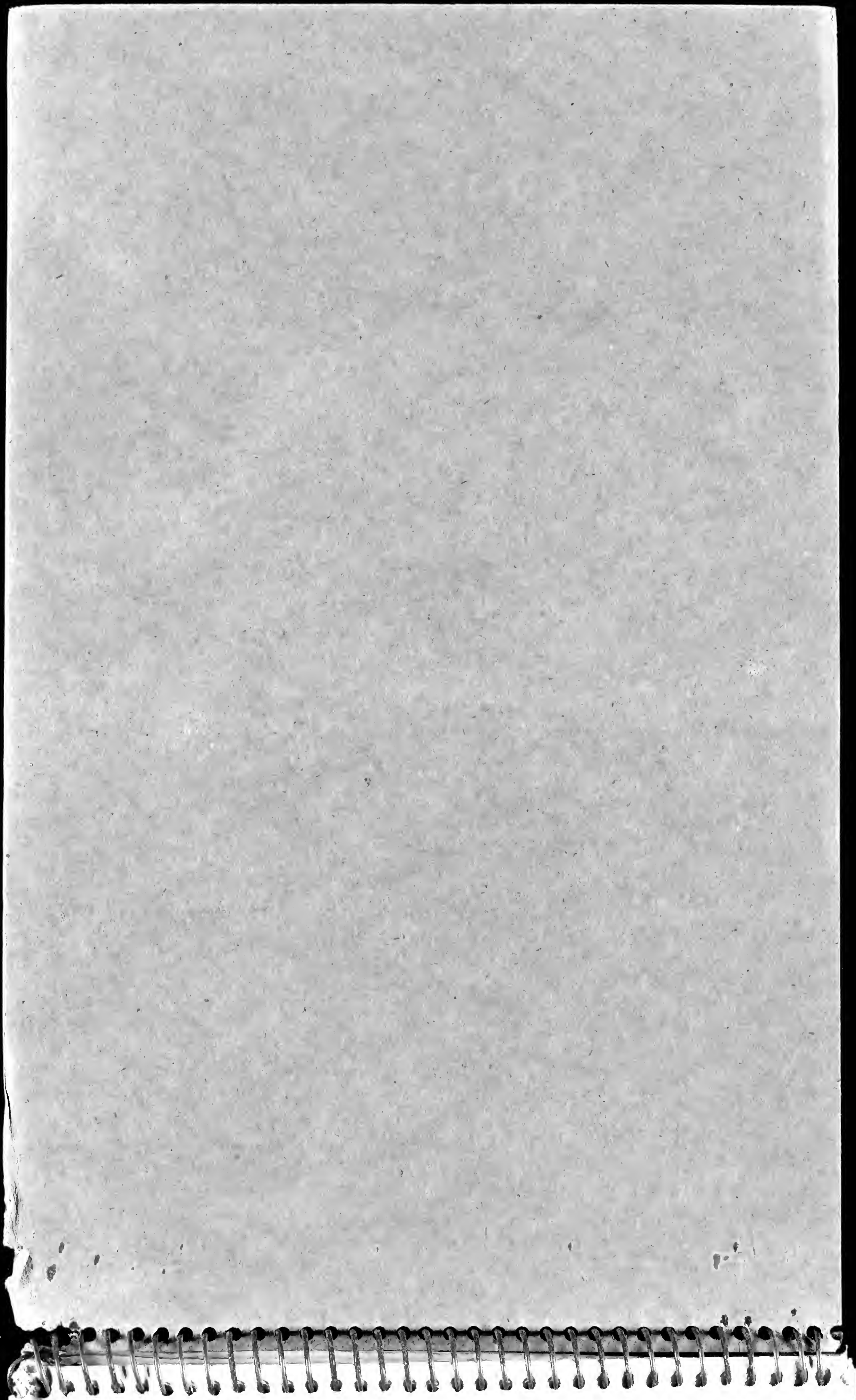












17/11/11 11

April 13 XII

Just stands. Walks around a bit. Feeding  
semi-alert. Then U-F at flying bird.  
Stands, U-F at flying bird. Then eats  
something on ground @ 21. Walks  
around stands. F-U-F as water  
lands. T pair F also (toward one  
another) Int water flies off. T pair go  
back to preening. H does a little more  
feeding. Walks around a little bit more.  
(How nervous can you get?). Jewel  
lands by T's. Int water off. Int  
display, quit rushes.

T & A picks something up, swallows  
it. ♀ wakes up, rushes to him, FB in sub.  
Both preen. ♀ FB again then relaxes @ 28

H does faint F, then E as ♀ lands.

♀ does more intense & longer F, then E-

HF. T pair start to F at one another



April 13 XIII

H pair walk to them in 5. Then all four begin to preen 6:31

K pair preening also.

Q H V at fly bed. of

Choke, E, HF. J flies off. Q just stands relaxed

Q ignites left. CC chokes at

another pair (Q). Q & Q FB. J walks away. Back chokes at C. Q pair walk away CC pecks at ground. Q pair relax.

CC does V-F. Pecks at ground. One Q flies off.

Choking sound seems identical with sound of J during feeding. Usually, however, more long drawn-out.

Another bird joins CC - Q warble. CC & Q choke (apparently at one another)

April 13 XIV

Also V's. Thrashed flee off. Q  
chokes some more. C chokes momentarily  
in return. Then both relax. Press. More  
choking together. Both relax. More  
mutual choking. (Is choking somewhat  
quieter, less "ow" or hissing quality  
about it, than of feeding call??).  
6:40 Still more choking. (None of this  
is very intense, however). Both relax.  
C walks away left. Flee off. Q presses.  
C? back N.A. call. Q chokes  
intensely. Shits. C chokes a moment, low  
intensity. Walks away Q relax.

Dance 6:46

C presses. Q does V-F ad flying  
bud. Both V-F as general birds  
near birds. Q dashes at it. Several  
flee off. Q & C relax



April 13 ~~13~~

Q joined by ♀ who FB. CC  
chokes entirely. ♀ Q chokes at her.  
All three birds V. CC chokes again.  
Q ♀ chokes. ♀ ♀ FB some more (in  
sub. CC chokes some more. Relaxes  
means food starts up. Q ♂'s throat.  
CC chokes some more. Q ♀ FB were  
♂ finally regurgitates ♀ flies off ♂  
swallows back vomit. CC continues  
choking. hits down. Stops choking when  
Q ♂ flies off. 6:58

CC chokes again when Q comes  
back with N.A. call. Q finally stops. CC  
goes to sleep. Wakes up as third bird  
lands near Q. Q chokes again. ♀ strings  
in to with fairly thin neck. Q ♀ back.  
Mutual. CC continues choking. Q pair  
relax. CC shuts up.

April 13 ~~XVI~~

C up in lengthy u. Chases  
any pair who move left. Then are  
then F'd at by C pair. Two pairs  
stand in E, facing their neck. Fly  
off 7:02

~~Two back to H.~~ Two back to  
H. ♀ utty down. ♂ lands with NA.  
♂ in E. ♂ walks to ♀, hovers. ♀ FB  
Under lands. ♂ H dives it off with  
attack call. Back to ♀, hovers,  
♀ FB, ♂ regurg. (tail facing high)  
♀ fed. Both fly off 7:05

Am attempting to skin through  
now. Sky rather steel grey.

Copulation at C. Didn't get  
pulsinares. ♀ wings (carpn out of scapular,  
not held away from body) angled so that  
pulsinares hang low. Feather bed called



April 13 XVII

during performance. After getting off  
both in E. ♀ HF. ♂ walked away  
with tail wagge from side to side  
(after dismount) ♂ flies off. After  
a while ♀ does 7:13

C dashes at ♀ & chokes after  
V. ♀ flies off. C pursued by ♀ (on foot)  
who FB in rather submissive. C  
stretched neck. Pecks at ground. Cpr.  
Then attacks neighbor Back ♀ FB again  
(quite submissive) ♂ regurgitates (I think  
swallows back part of it). ♀ hops on  
FB. ♂ peck at ground. ♀ flies off  
7:17 ♂ relaves.

C chokes at C peacefully over  
head Then much more intense as ♀  
land. C pair lunged at each other  
All fly up with very minor panic.

April 13 XVIII

7:20. Both C and Q back  
Some distance apart ignoring one  
another.

# chokung vigorously (sounds  
much now like typical hooting) Bud  
stays nearby, moving then FB  
Presumably mate. (This chokung might  
have been directed at J pair who flew  
off some time before it ended). H or  
up, hovers, regurgitates, in usual  
posture. Q eats & flies off, then Q does

J pair back. 7:25. No display.  
Stand & preen. H back with slight  
nest approach cry. Starts to preen.

Bud lands near H pair. Attached  
fly of in aggressive E. Intruder (who  
is in no display posture) retreats away.



April 13 XIX

I think it is the same intruder who  
is chased back by K and. Both in  
egg. E (neck tilted rather far forward)  
Intruder flees off 7:29.

Sun shiny quite brightly now.  
Seems to be some dispute at G

Bud with juv. wings in length F  
at another adult bud. This latter just  
standing in semi E. Then this latter  
attacks juv. who adopts extreme E  
(rather thick neck) bent head to semi E.  
Juvenal walks around in E, very extreme.

Has a dispute with C & flees off  
C approaches G, looks a  
little. Retreats.

Mallards & Gadwall swimming  
by are not attacked 7:35

C does length F at new bud, who

April 13 ~~XX~~

also F's length, then flies off,

Single H bird & J pair are  
sound asleep 7:37 Q flies off. Bird on  
Q-L-C again as gone. CC is watching

♀ C bagging feathers. I of fed

♂ starts to FB with HB. ♀ FB in sub.

♂ getting more out, jangling. Jingly  
walks away

CC chokes at Q. Then moves  
off to chase any intruder near C. C pair  
also advance on intruder who quickly  
retreats.

In bird near hole. Preening  
& playing with twig 7:43.

What I have been calling C pair  
is apparently the pair on the near step.

In any case, the ♀ has flown there.

CC advances in F on Q



April 13 XXI

Letter, instead of threatening, just  
flee's off.

Introducer lands by C. Great deal  
of F-wing. C of W E, capri way out,  
tail above wings. Both C fly off.  
Then intruder does. C pair backs unsteadily  
pursuing. One flies off again. 7:48.

Is basic "skeleton" of E merely  
an intention movement of flying?

Both attack or escape. Then other  
elements (either of attack or escape drive)  
may or may not be superimposed on it

C pair back? No, I don't  
think so. Another bird there collecting manes  
Just material. Then flies off 7:52.

Both I pair & H pair sleeping  
peacefully together.

April 13 XXII

Minor panic 7:58.

General dispute in C region. Three  
ducks C pair & intruder. Ducks remain at  
lath other in V for a while (head  
more or less horizontal). Then intruder  
walks away, collects lots of n in, then  
flies off. C pair begin FB. Aal just  
with HPB, then more sub. ♀ gets a little more  
sub as they go on. Gradually stops.

Then general pandemonium.

8:00. General dispute at C & CC. Lots  
of intruders. Long dispute between C & ♀  
pair. C chokes a long time. ♀ & ♀ FB's.  
Is she fed? Then ♀ (♀?) has double  
dispute with C. Dashes at him. Stops  
Then means in V. Other ♀ flies off. Eventually  
remaining ♀ does CC has used before  
this 8:03





April 13 ~~XXIII~~

Now only 2 remains on left.

H pair have flown. T pair still asleep.

H pair back. N.A. call both in

E. Several ~~at~~ F. Q FB ~~are~~. Both

preen. Q continues FB with HB. Both

preen Q FB seem more, getting more

submissive. ♂ gives one or two FB

calls in E. ♂ preens. ♀ walks away &

preens. Both preening intently now

8:10. Then ♂ flies off. ♀ goes on

preening

Both wife & I are

preening now. Things seem relatively

quiet, but the colony as a whole is a madhouse.

Light, however, very bad for looking at  
hearts.

(H pair)

FBing going on at HB. Q quite

submissive. ♂ has head to ground several



C check next page

April 13 ~~XXIV~~

tries (couldn't hear hearing). Does one or two FB in E. Theudades at interler with long call. Back. ♀ keeps on FB. ♂ backs head to ground. ♀ keeps on FB. ♂ one or two FB in E (his voice is rather more nervous than hers) Very little HB. The pupser ♀'s back copulation apparently successful. ♀ forced to sit down. One picks up at him. ♂ meowed, short, rhythmic (apparently same as V call) on first attempt on ♀. Bill wide open. Then bill closed or practically closed. Short rhythmic sounds like F call. Continued without break throughout the copulation. When it was over. Both stood in E. ♀ flew off. ♂ stood with lengthy tail waggle after discharge.



April 13 ~~1947~~

In this copulation above ♀ stopped  
FB as soon as ♂ mounted. ♂ may  
times pecked viciously downward at her

♂ pair back 8:23 some  
dispute with intruder. Fly off. Back  
again. Mutual. Both preen vigorously

Pair collecting nest material  
just past 5 pair. Nest-material  
collecting has been much more conspicuous  
than ever before this morning

Both ♂ & ♀ at intruder (♀ less  
than ♂) 8:30. ♀ U's (apparently at  
flying lid). ♂ hovers while sitting down  
(low intensity chokling). Intruder lands.  
♂ hovers more intently in chokling  
posture. Intruder flies off. ♂ hovers in  
choke for a while. Then it's dash off  
to chase another intruder. Back, ♀ making

April 13 XXVI

rather bank FB cues. A moans,  
regrps with tail somewhat higher than  
usual though not nearly as high as in  
choking. Feeds ♀. Both fly off  
(probably choking, rather less brooding &  
more rhythmic) in T bird who is  
sitting down 8:33

All sorts of disputing in K area.

♂ H back in extreme choking

immed. analyzing ♀ F, then FB.

♂ with stretched neck & walks

away. ♀ Vat flycatcher, then more FB.

♂ flies off, 8:36. ♀ relaxes. Does Vat  
flycatcher (seems definitely directed at

the flycatcher as she turns head & looks

at in in process) 8:40. sits down.

cc and ♀ pair are pairing. cc

flies off.



April 13 XXVII

Watching H pair again ♀  
FB (getting more used). A sits down, ♀  
jumps 8:45 ♀ sits down. Both seem  
okay now.

Lots of birds around collecting  
n.m.

CC back, just near

~~Leaving myself~~ Intruder lands

by CC & ♀. All ~~attract~~ do F's at it. So  
stands a while until E, then flies off.

Then CC & ♀ have dispute. A great  
deal of chasing interspersed with V's.

Then both ♀'s FB. CC continues to  
chase. ♀ ♀ pulls up twig deposit.

♀ of choke again at CC. Several  
muffled notes. Another intruder comes.

Chased off with V's & F's by ♀ again.  
CC relaxes. ♀ of go, back toward CC.

April 13 ~~XXVIII~~

Both choke. CC wooten of ♂  
Sudden manes of uterus all changed  
by CC & ♀ pair with U's of F's piling.  
CC goes on choking practically uninterrupted.  
Tingling, low-intensity, choking sound  
much more like ordinary feeling known.  
CC finally begins to peer. ♀ pair have  
been peering for some time 8:55  
Leaving myself 9:00.



I

Monday  
April 14

Arrive birds 3:00 p.m. Warm, sunny,  
windy. Gulls don't go up very much.  
Come down on beach very quickly 3:05

Back down by steps 3:06. Just  
stands semi-alert still then flies off.  
No birds back mainland yet 3:12.

Looking at beach birds for a  
while. Copulations, nest-budding, chattering  
(pair & single bird). Many flights. Some  
look as if sitting on nests.

Have been drawing copulations  
3:27. Still no birds on mainland near me.  
Ditto due to wind.

Howl back 3:35. I think H,  
standing very alert. Her up in a minute.

April 14 #

None of the usual pairs seem to be on  
mainland. Devoted except for grass wand-  
ling bud 3:38

D Choking with wings raised & tail  
bent back, after gulls have flown up in  
attack? No. 2 gulls on kaite do it  
standing in ordinary choke posture. Suddenly  
raise wings, up goes tail, (movement toward  
opponent?), back in usual choke, then wings  
& tail up again, back to usual choke,  
max. 3:49

Tail partly spread in above case.

V preceding actual attack, followed  
by F, HF with mate (after opponent has  
fled)

H pair back 3:53 Preening  
vigorous. Single J? back. Pecking at  
ground. Collecting n.m. Then mate's back.



April 14 III

Chaco intruder in aggregation B. Intruder  
mus to H ten. H pair start U-F. Intruder  
flees off. H pair & S F at one another.  
Relax. Start to preen.

Noticeable that S is very close  
to H. All three side by side. No disputes.  
Habituation presumably

H pair & C back. Preening  
or sitting down. 3:56.

Very dull.

H pair F at one another  
when intruder lands. Intruder flees off  
quickly

S joined by mate. N.A. call.

No display

Intruder lands by H. General  
muffle. Both H. F, at one another,  
(I think intruder took initiative in attack).

April 14 IV

Intuder flees off. Both H stand in  
E. QFB once. Both fly off. One  
back unweel. 4:04.

Unsuccessful copulation at O.  
||| ♂ HB (unusually intense?) Moments  
♀. She runs off. ♂ falls off, ♂ starts  
to HB again. ♀ in E. ♂ flees off.

Lots of birds in front of hide  
to collect nest material.

Have been drawing for some  
time now 4:25. Nothing much happened  
near hide. A few intruders. A great deal of  
singing & preening.

H ♂ back to join mate.

||| Provokes slight F from T pair. Does a little  
F itself. Quickly subdues 4:28

||| C does faint F at u. m. collecting  
intruder, who retreats unweel.



April 14 IV

Looking at health to see if I  
can sketch wing-up chokung.

Wing-up, tail up, chokung both  
before & after aggressive dash.

Rita should be coming  
along any moment now - 8:00

I

Tuesday  
April 15

Arrived hide 4:50. Warm. Cloudy  
Occasional rain. Gulls start to settle  
fairly quickly. Minor panic 4:52  
T pair back. 3:58. Both in E.  
♀ makes several choking <sup>low intensity</sup> movements.  
Then so does ♂ (I think they maybe  
feeding). Walking about in E. At least  
one of them is brooding. ♂ regurgitates  
quickly. Swallows it down again. One  
flies off.

H pair back. All 3 birds F, H pair  
together. T chokes, rhythmic. ♂ H regurgitates  
with brooding. But swallows it. H pair in  
E. ♀ starts FB with E. T means.  
♂ H starts to put head to ground. ♀  
stops FB eventually. Other T back. Both



April 15 II

// pair F together. Then start to preen  
5:03

Quite a few buds left of birds.  
also preening, H & T pair seem quite  
placid now. All buds left are gone.  
Both H suddenly in E. Hum. ♂ flies  
off 5:13. Back unaid. ♀ in E, ♂ in F-E.  
Both start to preen again. C back.  
Just standing One ♂ flies off.

Very slow indeed now - 5:18  
Both H remain at flying bud. Quickly  
relax. Go back to preening. Then remain some  
more. ♂ flies off. ♀ relaxes, then moves in  
U.

||| ♂ ♀ rushes to bud who is advancing  
on foot from K area. ♂ ♀ in agg E. Other  
bud in less agg. E. When they meet both  
E-HF. Then ♂ ♀ Chokes repeatedly.

April 15 III

Other bird suddenly attempts to mount her.  
General ruffle. Other bird driven off  
FQ moves eye back to preening S123.  
Both Q scream, U-F at flying buds.

HQ HF as if lands. He F, then

B. Q starts FB with HB Both F at  
flying buds; fly off. Back of first.  
F together. Q starts usual FB with substitute  
HB. A squeaks. Q feeds. Q keeps on FB,  
rather submissive. ♂ FB from E with  
little HB. Both look alert as panic  
overcomes colony S126. Don't fly up.  
Relax as panic presently breaks up. Then  
♂ flies off. Then ♀ does.

One H back with NA call.

Provokes S to choke (this choking sound  
certainly did differ from hooting) Both  
seen.



April 15 IV

Q pair have been back. ♂ fed  
♀ Potts preening.

H ♀ back. Both ♂ A & J  
do F. ♂ H does HF, immediately goes  
back to preening 5:32. One H flees off  
again.

Starting to rain again 5:37.

♂ H back with N.A. ♀ in E, HF  
to show rape, one FB call. ♂ in F, E,  
starts to preen. Then ♀ does some more FB,  
at first from E with considerable bobbing.  
Gets a little more submissive. Both remain  
at flying level. Then ♂ starts to hooon.  
Tends head to ground. Walls around.  
♀ follows, FB in sub. ♂ still hoooning  
puts head to ground several times  
(♂ has carpi held away from body, ♀ has  
carpi practically in under scapulars).

April 15 IV

♀ FB is getting rather infrequent. ♂ has stopped brooding. ♂ pedaling at ground in peculiar jittery fashion. Then ♂ walks away in B without head. Noises. Regurgitates.

♀ FB practically. Eats? Both fly off.

I have been joined by water.

♀ FB practically. Fed once? ♀ FB again. Fed again. FB again. Fed some more. ♂ flies off to water to preen. ♀ joins him there.

5:44

I back. ♀ F before ♂ lands? Both B-NF start to preen again.

Canada goose right outside hole, in water

Another pair at 5:47. Doem to affect J. ♀ starts FB in submission ♂ standing just hunched up. (A back with N.A.) ♂ flies off.



April 15 VI

Q has had a ♀ with him for part  
of the morning. Now standing alone.  
Now rape as ♀ lands. Q used begins  
FB. ♂ feeds her. Q begins FB by putting  
ally again. ♂ puts head to ground. Up.  
Q FB. ♂ stands with moderate bowed  
head. Q keeps on FB by quite submissive.  
♂ starts FB in submission. Q runs  
away in E (nibbling). ♂ follows.  
Q peeks at ground once or twice. ♂ neck gets  
a little higher as he gets near her. She  
walks up & down, mostly in E. He  
follows. Both stop. Then a  
moment. ♂ flies off 5:58.

// H♀ does F before ♂ lands (pointed  
at him). Then E-HF as he lands. He does F  
on landing, then E. Then ♂ flies off, attacks  
J. Back usual. Both birds E. Q starts to

April 15 III

FB practically. If she fed? ♂ starts  
to FB with, practically no NB. ♂ suddenly  
mounts ♀. Starts flapping wings. ♀ stops  
FB. ♂ utters short rhythmic means,  
changing from V mean to F mean in quality  
Bill more or less open. Then ♂ falls  
off, before he has started tail movements, or  
before ♀ has moved wings. (While on her  
back he pecked downward at her). After  
he gets off they are both in E. ♂ preens.  
Then pecks downward, makes 2 or 3  
repeated nest-building movements with  
wings in bill Both fly off. Back.  
♂ flies off. Then another bird lands  
by the ♀. F between them. A ♂ back  
lands on top of stayer who flies off.  
A pair seen 6:10 Then they both fly off  
at same time //



April 15 ~~1971~~

Sudden panic @ 1:15. Starts on  
mainland. I pair wake up, but don't  
fly off. Quills go back to sleep. I looks  
alert, but doesn't fly off either.

O, CC, & I pair now present left.  
Not doing much. 6:20 O flies off.

I pair apparently feeding. Once  
when O picks something up, I makes to him  
FB, he HF. Quills relax.

I & Q FB's frantically finally fed.

~~They are FB~~ Then O & FB's in submission.

Sudden one or 2 HB. Jump on Q's back.  
Sits quietly. (Q's tail up). Then starts  
copulatory movements. Falls off island. Stands.  
Both do a little preening. No sign of E.

A great deal of fun at N. Both  
birds in contact very extensive E's. Walking  
about. Some HF. Some Choking (once with

April 15 ~~18~~

muffled attack) Finally one flies off.  
Back, some more of same. (Can't see well  
enough to describe accurately) Indoubtedly  
however, bird in most extreme E (possibly  
aggressive) walked away from the other.  
Also noticeable that front view of extreme  
E, like this, shows white all around  
dark face.

Practically nothing going on on  
the mainland now - all birds asleep or  
preening 6:40

Looking at hearts now 6:47  
Birds seem to be sitting on hearts with  
typical tail waggle & foot movements  
associated with sitting on nests. A  
good deal of n.u. collecting is going on.

Q ♀ FB. Fed Quite submissive.  
Then ♂ flies off.



April 15 ~~X~~

Rain starting again 6:53

Other ♀ flew off, then one is  
back unred with N.A. call. Start collecting  
n.m. Drops it. Then flies off. Back  
with slight N.A.

It suddenly down off by change  
by ♂ ♀. ♀ in egg E, but not very high,  
neck leaning forward (typical?) ♀  
walks back to ♂. FB twice. Then  
starts to preen. 7:02

Rain continuing nicely. 7:10

It pair back with N.A. In E. Then

relax, preen. ♂ pecks at ground. Picks  
up. N.M. Kroons (rhythmic chokung-type).  
Does a few quite complete sideways nest  
building movements with and without  
N.M. ♀ FB once, both ♀ off unred.

(see back of page)



~~III~~ 51 mph

April 13 ~~VI~~

Angle H, back, meowing, stands,  
flies off.

♀ being fed with a great deal of  
mooing ♂? Then ♀ walks along in  
semi-cloke posture. Mooing ♂  
regress, swallows back. Tries to  
mount ♀. Better fight. Both walk  
along. Low intensity chinking. Mostly  
by ♀. Definite mooing call.  
Cloaca open. Neck very greatly thickened.  
Then ♀ dashes at intruder which flies off.  
♀ back to chinking. Another intruder.  
Provokes more chinking. Then ♂ flies  
off ♀ stops chinking although intruder is  
still around. Was this actually ♂?

In the above account, must  
emphasize that chinking was low-intensity  
Practically identical with feeding posture.



~~IX~~ 51 pm

April 15 ~~XII~~

Remaining Q flies off. 7:24.

cc → Panic 7:25. Quickly breaks up  
Q pair back Q FB. ♂ puts beak to  
ground. ♂ flies off. Back. Q FB, again  
♂ regurgitates. Q keeps on FB, ♂ with  
high neck ♂ picks at ground several  
times. Q flies off, ♂ follows

Q pair dispute with H or intruders.

♂ rudies in aggressive E. Intruders

fly off. J's preen. Q FB ♂ FB a little  
too. Both submissively then preening. H?  
bird back. Much V-ug-F-ug.

Both J's choke occasionally (typical sound  
when extreme) (More hoarse when less extreme)  
H bird usually confronted to V's. Then  
picks J bird. Fight continues stops. H

preens. Q J FB. Then more challenge  
V's. Then 2 more birds come down!



April 15 ZM

General confusion. Resolves itself into 2 pairs. J's much ~~more~~ Choking. All do more of U's, right in each others faces. Mutual FB by A's in midst of dispute. After fight is over. J's walk away.

Mutual FB continue at H  
♂ FB in E, little HB. ♂ falls off immediately.  
Both stand in E. Preen, Grasp feet.

J's have also begun mutual FB after fight. ♂'s HB rather irregular, toward end FB in E. Jump on ♀'s back. Copulation apparently normal. Only one contact of cloaca. Over very shortly.

During the copulation ♂ uttered a short rhythmic "hum-hum-hum". Rather like brooding, less plaintive. Rather like Choking, now long drawn out.



April 15 XIV

Only one I left now - 7:40 just  
preening. Other I back, no deploy starts  
to preen immediately

Copulation at K followed Q.E.

One of the birds plays vigorously with u.m.

The other flies off unprovoked. 7:45

H ♀ does HF to show nape as  
of lards. ♂ F-E. ♀ FB, just in front,  
then more submissive with HB. ♂ preens.  
♀ shuts up.

Both I's & H's F at utterance. Intentional  
flies off. Other bird relaxes. Back to  
preening. It ♂ walks around. Then preens.

7:55

Sudden dispute as bird walks to  
it's front left. Prod meaning. As just one of  
the H's gives choking sound while just  
sitting (heads neck just normal, not down)







Shorthand  
Note Book  
L

FOR PEN OR PENCIL



U = Upright  
O = Oblique  
F = Forward

Apr 20

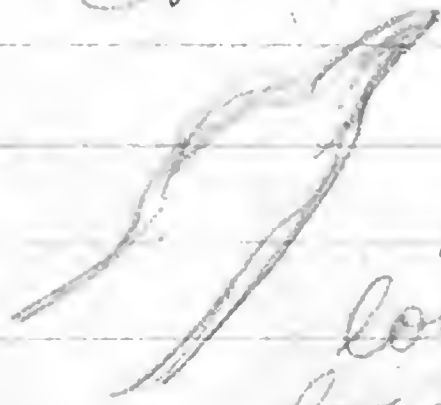
5:00 - 11:30. Listening to  
Apparently two pairs. Hyderabad. Just  
Departed U. After attempt for ...

Choking out. Just PNT with body horizontal; can ...

Attack behavior quite like B & G

And on roof, when you ... O-F-U

One "typical" Oblique ...  
one. Introductory phase



Apparently ...  
a Forward call  
loud, but not quite as  
loud as normal ...

Oblique call. Definitely, one, ...  
after HD oblique.

NB in progress at one box



1. "Landing Call" by one bird only. Not  
near any other birds.

Again then some 3 (others) landed birds  
before 12:00. Some - some - some sound  
both before and after 12:00. 12:00

♀ FB. Just like ♀ B h G. ♂ runs about  
and then down to ground. Making what seems  
to be harsh version of ♂ B h G. Male Feeding  
Call. I can't tell whether the ♀ is actually  
fed. 12:07. Sound of FB is "Tree" (this  
means the <sup>10</sup>th note - that is  
the only one I can hear).

Juv. Gull giving "Kah-ah-ah". Just  
before flew up to roof. Sounds like attack call  
No ritualized posture.

Again Male Feeding Call?

Common Gull 2nd Phase Trumpet.  
Like Humboldt's. Head not far down.

Again Male Feeding Call. Quite unmistakable  
Female FB

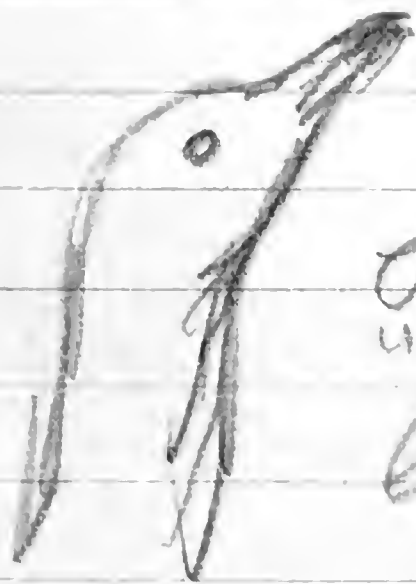
April 28 ~~1981~~ 1982

Boundary dispute Constant Choking of  
PAT with moans Between ♂ of two male  
pairs. Posture with Head. ~~Spine~~ ~~Back~~ ~~Head~~  
Regurgitation, more than like ~~Normal~~ ~~Call~~  
Choking.

Again trace of Sanding Call as full comes  
down right beside others 12:25

One thought I heard Choking-type  
Call. Couldn't see posture in time

Bird lands with Sanding Call beside another  
Both in U. ~~Posture~~ ~~Posture~~ ~~Posture~~  
same posture



Before HDO, with definite  
"Krrr" sound. This is definitely  
low-intensity F.

Price review of ♂ Regurg pattern ♂  
reacting to FB of first year bird. ~~Loose~~ ~~Male~~  
Feeding Call. Then ♂ in U can't see whether



April 27 1955

is actually thrown up but has a few more feathers  
 on - of course, but it looks like a piece of  
 additional feathers.

the bird I with you - it's a very  
 nice one - I like it. It's about a bit  
 just old V, now, when I'm not good at

Just looking by partner in back. Definite  
 call. Then goes into semi F  
 posture. Looks sharply away from  
 partner. is this HF? Then flies off again.

From a pair of birds, with  
 one partner. It goes into a posture  
 looks away from opponent, then back  
 this was just a definite warning - jerk -  
 game like B & G. Unintentional HF

Boundary dispute. No real fighting. Lots  
 of ch. int. moves. One one of the birds sat  
 down, as in B & G column. No sound audible  
 then ch. int. moves occur when gull clucks  
 at neighbor, and then stops back on boundary  
 line!

April 28 V

~~scribble~~

Gull close, U on albatross, were some  
others in communal area. No response.

U is probably low intensity. low also

Seems to be almost N.P. going on. I think they are sitting yet.

A feeding call (???) lay solitary male on ground towards flying birds

Head shake & "Kek" by solitary male. Looks rather as if it were going to cast pellet

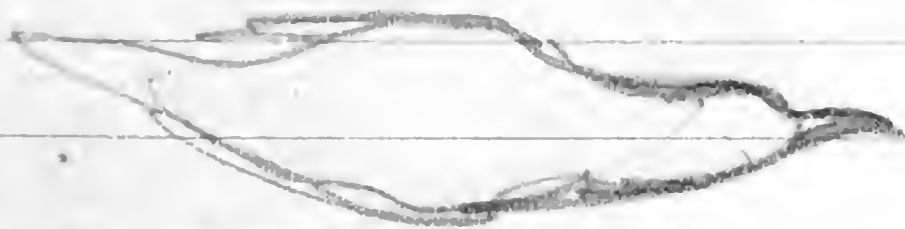
~~scribble~~ sitting.

U after attack

~~scribble~~

Gull lands by feet box. Has something in bill. Peculiar posture. Not quite forward.

Ordinarily raised head and neck.



Getting peculiar call. Like bird

intermediate between Male Feeding Call and Low call. Then another gull lands beside



Apr. 28

11  
12  
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27  
28  
29  
30  
31

Both V head movements typical that's (looking) down & up. Both depart. (repeated) of kids. A series of copulation calls. Just like B. big. Jump on top of ♀. Copulation call. Both under V. Male with suspicious always feeds. A dashes off to attack nearby. Can't follow directly. Cut

♂ had swallowed back food in nose. Both run to side. ♀ begins to utter. ♀ begins to utter. A dashes off to attack. Both depart. (repeated) of kids. A series of copulation calls. Just like B. big. Jump on top of ♀. Copulation call. Both under V. Male with suspicious always feeds. A dashes off to attack nearby. Can't follow directly. Cut

This was like an evading brief cop attempt both almost called. Feeding of ♀. Copulation call. No mutual TB.

2:25 V after charge (In many of these V's, the carpal joints are little raised)  
Again, same ♂ as above, goes into posture



April 28 VIII

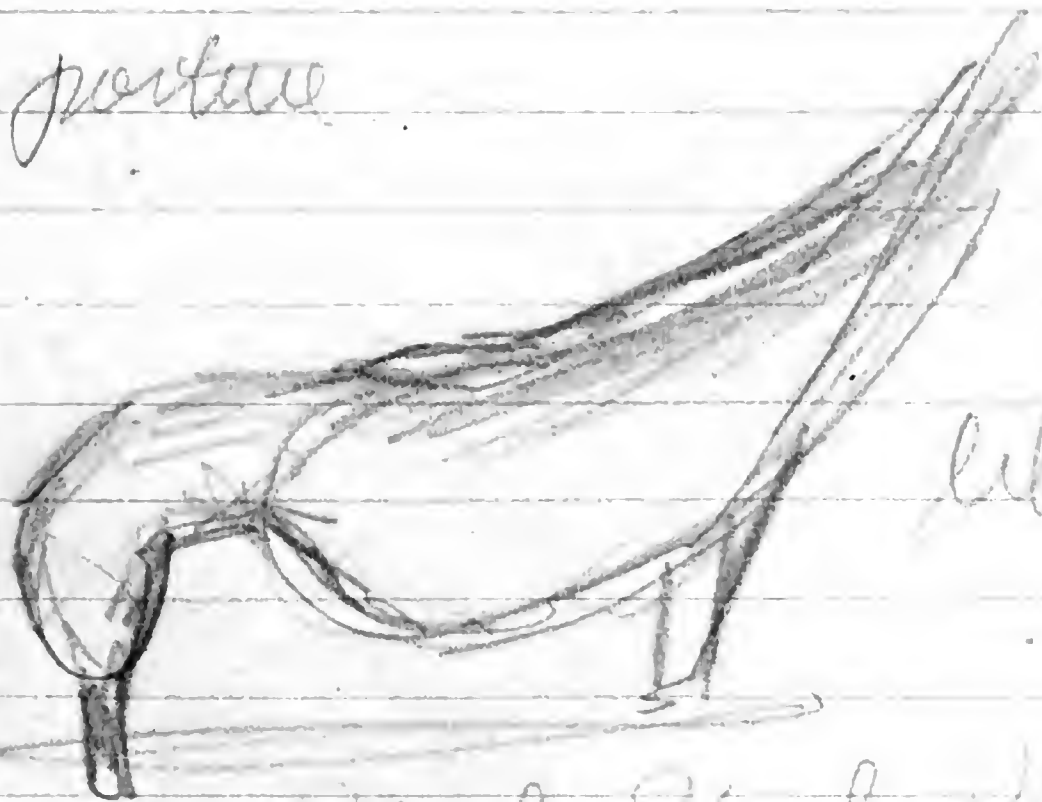
Before requesting for                                  Again very hard  
lets                                  & Male Family Call

When juvenile joins  $\sigma$  with adult  
associates, then  $\sigma$  halting  $\sigma$   $\sigma$  100,  
but can hear. Definite high intensity sound  
look up to see  $\sigma$   $\sigma$  juv in the juv  
picking at  $\sigma$ 's bill.  $\sigma$  slightly tuck neck  
then  $\sigma$  starts irregular "Kuh Kuh  
Kuh", runs after juv, who runs away.  
Bobbin V.  $\sigma$  comes up stands in V. Then  
darkest to attack other juv, a neighbor.  
V after attack &  $\sigma$   $\sigma$  themselves

V after attack V after escape

Ch. V. toward Ibis

Ch. posture



Very much  
like "Kuh Kuh Kuh"

Definite "Kuh-Kuh-Kuh"  
sound



April 27 1911

V after attack on Ibis

It has been mentioned that I also  
It did (I suppose) I am confident that I shall see  
how far out to report from the hill

Looking at this room. Near water  
directed out forward



Almost this  
effect

2:47

Watching A who seems related to  
juvenile. (Let us call him J) The juv is  
on stump that seems to be station I seen  
relief feeding on far side of cage. J flies  
to side of stump carrying food in bill  
stands giving very harsh, shrill, version  
of Male Feeding Call. Very penetrating  
juvenile draw beyond. J keeps on. I  
sometimes stands in the posture



April 28th

Female J. swallows the food 3:00

||||| This male Male Feeding Call is exactly the same sound I heard the other ♂ make earlier (see above), with food in his mouth before the female got the food

||||| Some of the Chipping sparrows are accompanied by Male Feeding Call

||||| Some of the Silver Gull F's are as low as dully in my B.H.G. drawings. Some are no more than head-tones. None, apparently, are as low as the more extreme B.H.G. notes that other species are subject to in certain circumstances

||||| I pair, and one other at least, are certainly not completely broody. Leaving nest site deserted for periods of time

||||| Very dull now. Siesta time

||||| It is gradually cold, grey and almost rainy

||||| Dispute between pairs & Skua Oblique attack. O after attack



April 28 1955

Miscellaneous was accompanied by several that  
thought I was of F. but only in the high  
(superimposed upon H. type) form



Unfamiliar attack

Various fight between d. g. & B. h. g.  
B. h. g. attacked d. g. ... after attack

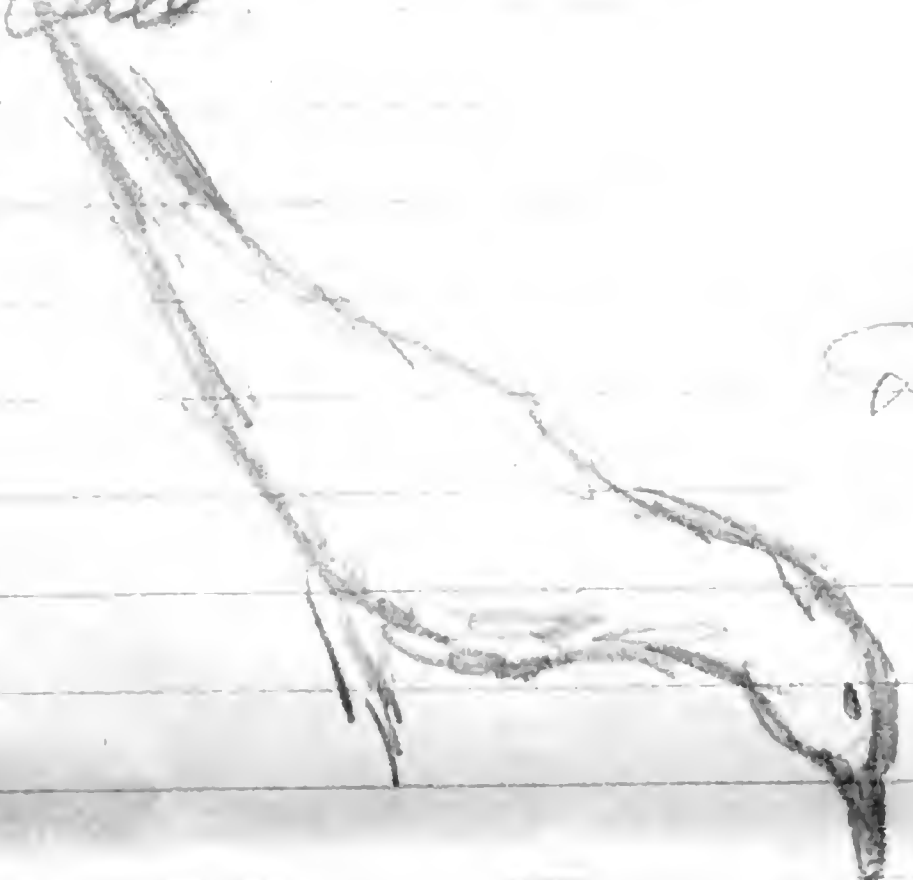
Some of g. chirping seems to be associated  
with Male Feeding Call. Certainly some of the  
B. h. g. chirping was

Pouring rain now

♂ returns to g. by hut. ♂ gives MFC,  
heads head to ground. Goes on a long time  
of B. h. g. three times with long intervals. Then  
sings of gives O-choke. Pair retreat  
Retreats ♂ gives two "Heal" calls

April 28 VI

Then long dispute O. J. (OF)  
after attack Much Choking  
Low Choking with MFC low with  
Choking call

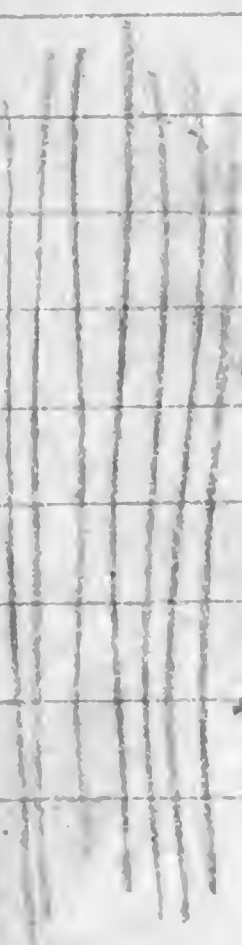


Choking posture  
Diagonal

4:04

(OF) = F head position or O body posture

Copulation attempt AH. Returns  
on foot to female by West. No display except  
pop-up, low-intensity U. A starts uttering  
weak MFC short syllables. ♀ begins FB  
at first with stretched neck. Gradually ♀  
begins HB. Pecks ♂'s bill occasionally.  
♀ is begging in sub, without a trace  
of HB. ♂ still just stand. Still stretched







Extreme Blg Jowled

April 28 1911

upward Sea stopped giving MFC sudden  
starts up and down with breast  
movement, well, rather jipped, behind  
of 2 days of 2 days to 2 days of call  
in some movement. They are in  
the 10 days on top of 20 days of 10 days  
during. They do not go down, they hold  
to hold the movement. I went on some  
shuffled this, looking from side to side  
of peaks down at her 3 times. The peaks  
upward occur. I see stops top call  
starts FB again gradually increasing in  
frequency. Then it falls off. Both in the

starts up 10  
to FB

with head phase  
begin to rise. Both walk to pool and  
bathe 4:17.

Again has stopped momentarily  
I have heard Landing call again  
again today.

copulation attempt. Perhaps successful,  
but I doubt it. Didn't see pellets. I  
afterwards. HF by one? Goodshako. You have



April 28 XIII

||||| This Cop call sounds much like high intensity Chasing call. 4:32

||||| (O) before attack (O) after attack  
(O) after attack (O) after attack

||||| (This last pattern  
observed) 4:32

||||| P feeds. General procedure. No  
sound of ...

||||| J of standing ...  
does O-F - U-H-F. HF unmountable  
like B49. (I think this outbreak provoked by  
neighbours.

||||| F before attack. U after.  
Another peculiar F produce



April 28 1912

Ch. species attack. After attack

I of same adjacent with posture  
3 pictures



Had I seen a similar scene  
feed birds walk  
Again this is in twisted posture

of feed ♀. Usual sequence of  
postures



Little Gull 1953

Arrive tide 3:22 Warm sunny

up

Little Gull

response when another lands - still far away

U after slightly. Inland response OS U to alighted land. Down SSSS (all with ticks) U. S to flying bird. S U (again's with ticks) U. Again up, down again OS

All birds in flight

others 3:53

Mostly preening. Then sound asleep 4:02. (Down to the Blg's love motions. Then sound off by Blg's land further away. S to flying bird. UU. asleep. 4:15 O<sup>3</sup>

Arrive 4:21. Quietly over UU U

PFP. One, apparently, two birds feeding in S together

I think these birds are probably already in pairs. All gone after pause 4:39. One back, several hundred yards away. One lands by other. S-U, S-U. New corner flies off. Then old bird repeated O'O's. New corner does S and another S toward flying bird. I think

How low Shrike, around sunset) U UV (after alighting)

O O (with nesting) S-U S

one red year in water

successive S-U, S-U very common sometimes for U, U

Low tone O-S-U - bill dipping

"Success" with S "Reich" with O

one success call with O in "Reich" call. Also

found "winning" (tail) don't know where

But head conspicuous in some U's

S is often not vertical

Particular distinctive motion with something O >



O posture (high)

Now all meaning together

Tail like wings in many O's, at least.

U U

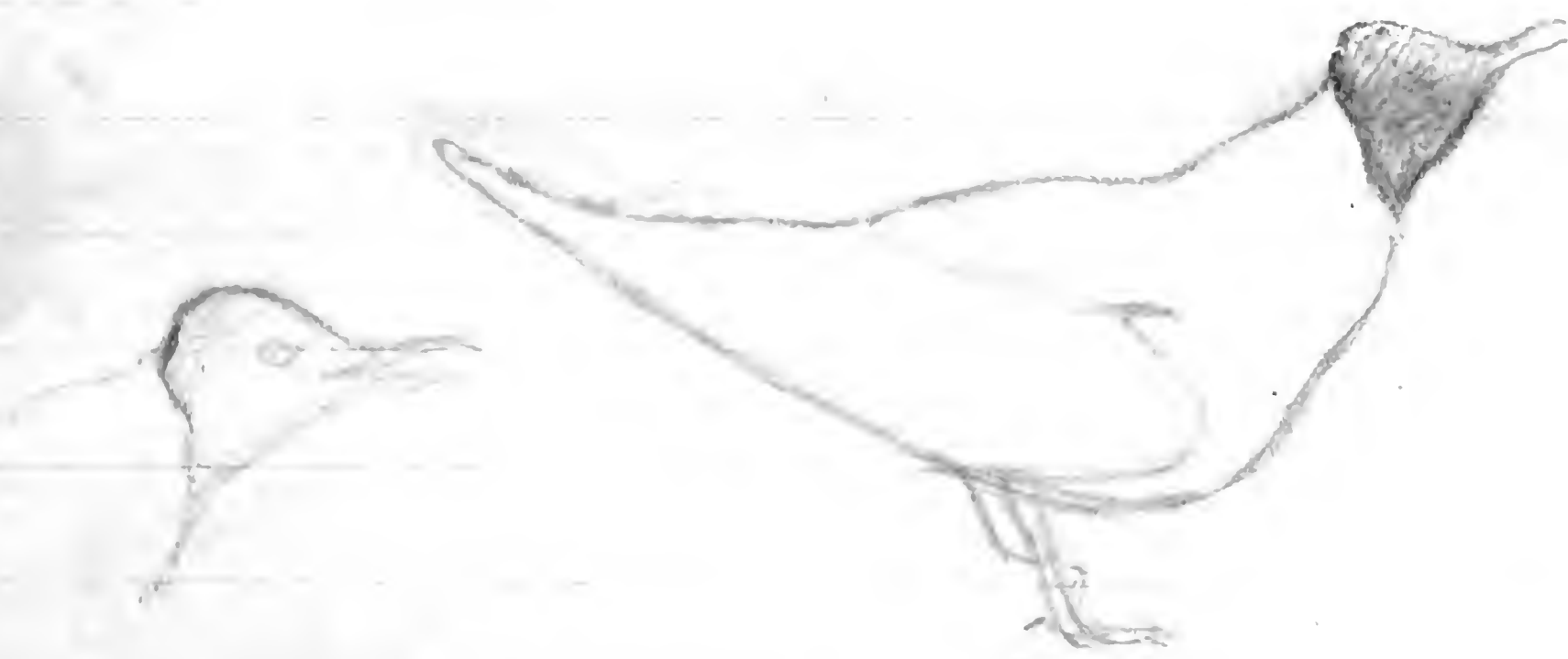


O posture?

[S] (definitely without prelim O)



8:45. Sunday, New York  
U U



Oblique  
(this is about right  
I think)

0000000 8:26 (Some of these Obliques may have been  
directed toward the water)

0000

UU

S-S-U

S-U S-U U

(The sketch flying at followed by  
preening. Exactly like neutral of B. G.)

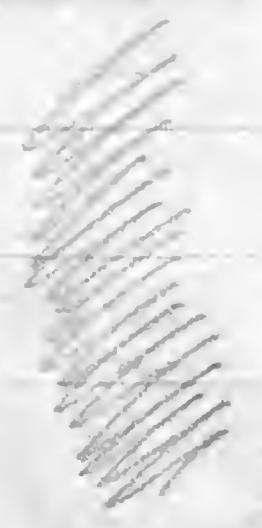
00 0 00 (Some of these Obliques to flying  
birds are accompanied by drawing in of neck)

One of the Little Gulls makes typical (B. G.) pellet  
casting movements

UU

Landing Call "beeh beeh beeh beeh beeh beeh"

or "beeh beeh beeh beeh beeh beeh beeh"



to connect. ... turned back from  
0000

2:25 P.m. (came after I got in, unfortunately)

Actual song call ... heh heh heh heh heh

05 05 (again, I thought, pivoting in O)

Very close [O's & S's] to flying birds. Low intensity  
O with "heh" ... heh heh heh heh heh  
heh heh as O-S-O (I am certainly right about typical  
O and S calls 2:40)

My drawing of nest hood in Unconnect.

All gone now

Carpal joints not raised in O. (I don't even think  
they were raised in S)

Back again V V [S] I don't think carpal joints  
can be far out in either of these displays.

Bird in S attached.

Both birds in V after Capulation attempt

Actual fight. Couldn't hear noise, except probably  
song call



May 2 III

UU UU SU-SU

FB = Condo - head round.

Very narrow



Very little

Very little Head-toss, but some

Bill opens & shuts rapidly during both O and S. Gets less widely open on the latter than on the former

00S0

Didn't see prelims of that previous Cop attempt, but one of the birds had been FB w/ Jim's first previous

0000 0SU0SU

O preceding attack.

O Sudden panic caused by Jesus and then all off into a full flight.

00S0S 0000 UU<sup>5</sup>U<sup>5</sup>00U<sup>4</sup>S<sup>4</sup>0<sup>4</sup>

UU 00S<sup>3</sup>

UU Bud in U attacked. 0000 U<sup>7</sup>S<sup>7</sup>S<sup>7</sup>0<sup>7</sup>U<sup>9</sup>U<sup>9</sup>

Bud in U attacked Bud in S attacked. UU.

An aerial fight. 00S<sup>2</sup>

Long, repeated, aerial fight. Apparently about, but Long call after birds separate.

OS (The stretch bent back more than vertical)

$$\begin{array}{r} 17 \\ 54 \\ \hline 71 \end{array}$$

$$\begin{array}{r} 13 \\ 8 \\ \hline 21 \end{array}$$



May 2 IV

O U O S 7 2 0 0 0 0 5 5 5 5 0 0 0 0 0 0 0 5 0 O O

U-U U-U 3:42 O O

O S U - U O S \ U U U 3:47 5 5 5 0 0 U S O

the aerial fighting pattern is like that of B. h. g., but no scan-swoop.

Superior end of body feathers in O Perhaps slightly more so.

Tail structure slight above wing tips in O

O S O S S U U U U U O S (Hutch without raised lip)

Many attacks (aerial) from no posture at all  
Whole eyelids like Jews

O S - U

(One eye, away from opponent, closed during the other eye).  
"Aux" Upright. Don't know about

4:12

"Aux" Upright seems to have horizontal bill. Often then upper part of neck.

O O S O S

One bird (with eye still closed, must be injured) apparently FB. Semi-bunched. Flight HB, almost pure slight head toss.

Weak sound "Kip" ? as FB fly

All gone again now 4:20

OO

Hill dull 4:50, 5:00

F

Page 3

Arrive hole 5:30 a.m. Sun up. No gulls in front of hole.  
First little gull seen on ridge 5:50. More.

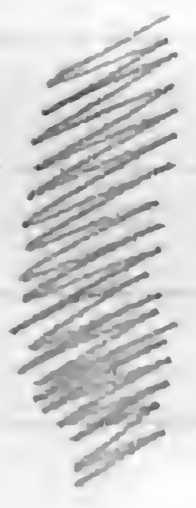
First B.h.g. down on this ridge 5:50. Second 5:57. Sun  
lands a second, and then moves on 6:02.

B.h.g.'s right in front of hole 6:22. Move away steadily.  
Ruff and Feares are present. B.h.g.'s land again 6:22.

3 Little Gulls fly by in P.F.P. (I hope they didn't see me)  
Land. UU OO Fight on landing, but neither  
fighter displays afterwards 6:35.

One gave landing call on alighting.  
Small attack from no gull at all.

Now, 6:45, only two left; doing nothing at all.  
OO UU  
OO UU



Aerial fighting. Sudden acceleration of wing beats. Horizontal  
flight for a second. Fly up above opponent. Slight sweep as  
fly down onto opponent. ("Sweep" much less conspicuous  
than B.h.g. form).

No display by two birds when newcomer alights.



All chased off by B.h.g. Aerial fights. Sudden acceleration.  
The acceleration in glide before stretch. Very slight indications  
of swoop before attack, soars after attack.



May 3 II

U preceding attack ... time ... back again 7:04

with primary breast ... 7:15 ... apparently no ... after attack

no posture either before or after  
[OOOSS] Many attacks with no posture either before  
or after [O] OOS [OS]

Low-intensity ... "lek lek lek" > In Oblique  
Posture

There are now four taking part in the PFB  
All apparently gone 7:57, 8:21

"lek lek lek - lek" sound in air. Precedes  
true song call.

Back again, but very far away.  
This definitely seems to be a two.

Back 10:41

attach UUUU [O] UOS UU<sup>5</sup>SS. O before flying up to  
OSU [OOOSSS]

U after copulation attempt

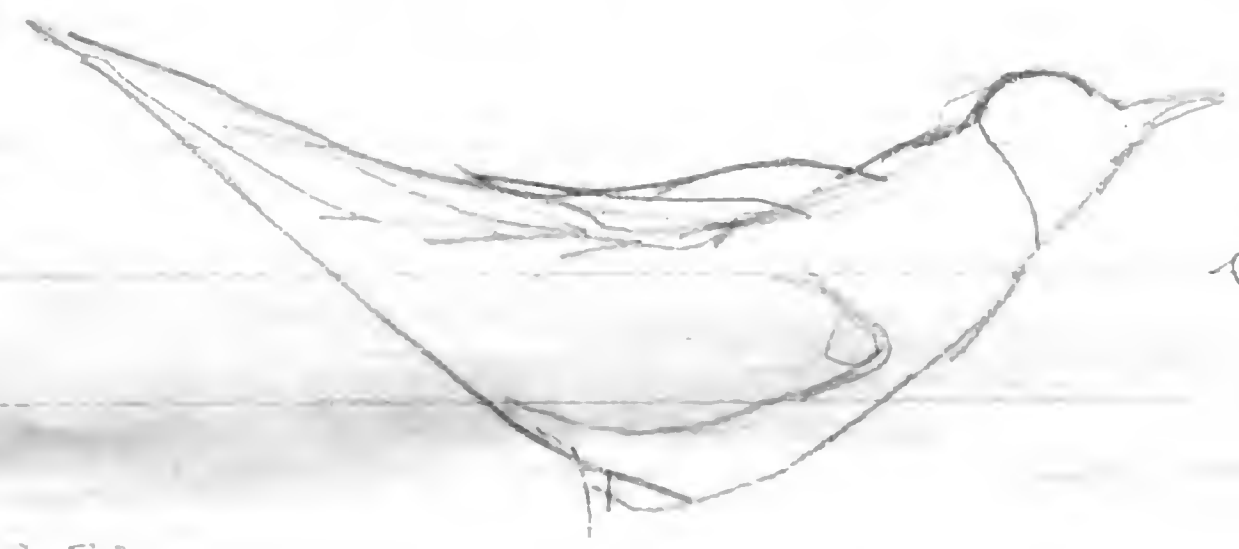
May 3 III



Travelled seems identical with Vela... 11:37

U UU [00SS] | [0] | 00 000SS 000SS 00  
UU OSU(PAT)U UU OSU000000S00005'UU  
0000000000<sup>22</sup>SSSSSS

Flight preceded & followed by...  
UUS<sup>22</sup> OS<sup>22</sup> OS<sup>22</sup> | 000<sup>42</sup> OS<sup>22</sup> U<sup>19</sup> 12:00 [0] OSO | OS | 0 |  
[OS000] [00] [0] [00S] 000 Bud w O attached  
000S 000SS OS<sup>29</sup> 12:10 Bud w O attached



Some Oblique Postures

0 | 0 | 005

All gone again now, 12:30  
Now my old three are back, at a great distance, but  
that is all.

0 [00] 0

Nothing doing 1:12, 1:20  
Leaving myself 1:30



July 4  
Friday

with [unclear] [unclear] will be [unclear]  
[unclear] [unclear] [unclear] (OS OS)

7 11  
7 15 11 li long withing  
[unclear] [unclear] 8 25  
All gone.

Four appear in PFB 9:02 Leave again.  
Two back [unclear] 9:20 Four down 9:25 (OS OS)  
(OS OS) [unclear] [unclear] [unclear] [unclear]

not about as you may  
neighborhood

(11-11-11) (11-11-11) (11-11-11)  
at 5:47

None on ground yet - 6:05, 6:25, 6:50  
Then on ground at 6:51. Just into your gain

6:57

Nothing on ground yet 7:12. Fog seems to be

moving in again 7:18

Three back 10:55 (SS) U-U-U. One goes  
immediately. Gone 11:15

Back 11:40. 000 UU

I think showing signs of FB. One sitting just  
leaves 3rd. No hesitation for a while, even though the third  
one is pinned against them. Then a scuffle. Pinned  
followed by retreat posture by anybody. Seen in the

Delayed long call, always, before flying up.

[O] O-S-E E [O] OSE-SE



February 1968

Two birds

Again & Again      Now apparently gone 8:48      Now again  
Two down      S-U-U      U-U

Just off to "cruising" in one or both birds before

Off again immediately 8:05

Come down 8:17 as the rain starts again

Now another pair settles 8:18

revisions of the Spruzet, slight difference in angle of bill.  
Great difference in thickness of neck  
5th bird appears

Notice sideways approach as mutual O-S-U

on ground 8:24

OSOSUOOV

Arise and/or plume now 8:35

U-U

Three fly off on PFS? One goes off first, meaning  
"hang back as do all gulls flying up", then two follow,  
then other two.

May 11

How long talk of them 8:50



head of mutual

upright

One flying - Yes 9:03 Lands 9:10. I have  
right of it. Down! Back again 9:16. Accuses.  
A trace of sunshine 9:20 Yes quickly. Rain 9:21  
gull goes far far away 9:26.  
Two back, without my noticing 9:33 Off again on

OTO 9:33

Two back 9:41

OOOOOO SSSS UUU Two go

Bird stands in upright. Looking from side to side  
continually. 9:47

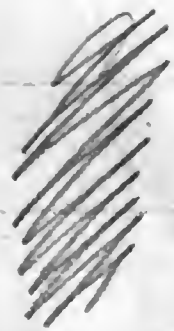
SS (silent?) UU

Some around, under, 1:37 Land 1:55

OOO UUUVO OSO UU

That "tik-tik-tik" sounded rather like "tucka-tucka-  
tucka-tucka" call, but more like Alarm call than usual.

Two, back, gone 2:37





Day 7  
Friday

Opus ... ..  
... ..

7:37 Fly about Sandy  
P etc continually 8:50

COOS } Just quiet at present 8:10 OSOS

10) ... ..

Back 1:35 Four around DS 00 OS 0 00



Sketch Posture

"tue tue tue tue" as they fly over birds. Also on dry land.

TS  
0000 SSS V VVO

May 7th

Bud in S attached Bud in S attached Bud in S attached  
attached Bud in S attached Bud in S attached

Much jumping, but...  
JTV etc. Mutuals often O-S-U

Attack from O mm Bud in S attached Bud in U  
attached mm Attack from U Bud in S attached

OOOOO SSSSSS At least 9 birds present  
OS OS UU  
OOSSUOSOSOOOOSUOOOO OSO-OSO  
Attached bud in S attached

Again & again Crackling call over birds and while  
landing.

All up again. PFP-ing 2:48

S 4:23 Three around. seem to be PFP-ing all  
around OS OS OS S U.U

Attack from U mm on bud in U

Crackling on landing.

Gone 4:37

OS Back OOO SSSS OOSSO UUU  
OSU-U Gone 4:53



Friday  
Page

Two little yucks around, UU U

Bathing OO O 0000 Both fly up for PFP 6:23

Still gone 6:52. Not even a sound of them in the neighborhood

7:17 New arrival 7:23 Permuting three in PFP. Flying quite

near No. four One lands on far edge all do O three up

then the fourth PFP. Four on water, far away. 7:29 Then

another PFP 6 on ground, various places. Inert. 7:35

Also some flying, I think OO OSS U after delimiting attack

Most of them up again 7:37

Define bounding call, uuu, uuuu uuuuuu uuuuuuuu uuuuuuuuuu

mate UU, U-U.

Mutual FB probably, feeding of female by male possible, possible copulation. Copulation apparently successful. Both birds departing in U afterwards. (This was on tiny bare lump, a foot above water)

PFP on somewhere 7:45

2 down nearby OU-U UUU OOSS

Crashly by birds flying over head

Cop attempt ♂ goes to neighbor. Both in U.

Neighbor retreats ♂ returns. Begun "Kip" call with slight

HB. Walks to female. No move on her part ♂ continues FB &

HB. Does 3 pecking movements in midair. Then HB suddenly

increases in height ♂ jumps on ♀ back. She runs away. Both

May 2<sup>nd</sup>

stand no apparent display. → walk to ♀ Does a little more  
to, find with HB, then in Humeral or relaxed stops. Both  
legs to press in relaxed fashion 7:55

0 [DOUS] UU

can I think. ♂ FIB in Humeral, jumping in HB.  
Again & Again interrupted by rapid preceding movements.  
No apparent response by ♀ ♂. monoch. ♂ falls off, unbalanced  
Both in V. ♂ jerks ground. ♂ means ♀ means 8:01.

All up now.

Heard again 8:40 Land, far far away

Apparently still gone 9:08 Two flying about 9:09

gone again



Little Gull, 1953

Atricilla

head toss

Long call of Atricilla "how-how-how-how"  
etc. Rather more like that of large gulls than is the  
long call of any other Hooded Gull I have heard.

Quip with one head-toss, higher pitch "how"

Long call starts very diagonal. Gets more horizontal, neck  
more retracted before end.

Carpal held widely out during long-call proper, less widely  
during head-toss

Head-toss call possibly more usual than the other



~~what the~~

Dear Dr. Morrison.

~~I am~~ At the suggestion of Dr. East Mays, of the American Museum of Natural History, I am writing to ask you for some information.

I am at the present time, ~~completing~~ ~~my~~ ~~Ph.D.~~ ~~degree~~ ~~and~~ ~~am~~ ~~working~~ ~~on~~ ~~a~~ ~~graduate~~ ~~degree~~ ~~doing~~ ~~graduate~~ ~~research~~ ~~at~~ ~~Oxford~~ ~~University~~, on a grant from the National Science Foundation. I am working in the field of animal behavior, under the supervision of Dr. W. T. Sulzberger. ~~I am~~

~~I am~~ ~~working~~ ~~on~~ ~~a~~ ~~graduate~~ ~~degree~~ ~~and~~ ~~am~~ ~~working~~ ~~on~~ ~~a~~ ~~graduate~~ ~~degree~~ ~~doing~~ ~~graduate~~ ~~research~~ ~~at~~ ~~Oxford~~ ~~University~~, on a grant from the National Science Foundation. I am working in the field of animal behavior, under the supervision of Dr. W. T. Sulzberger. ~~I am~~

Blue Gull  
1952

Shorthand  
Note Book  
L

FOR PEN OR PENCIL



$E = \frac{1}{2} \rho v^2 = \text{Cal/cm}^2$


E = Ereet = (Upright)  
V = Upward = (Oblique)  
F = Forward

1952

Sunday  
May 11

Arrive Silver Gull cage 5.07 cloudy  
damp day. Gulls fly up as I arrive.

Some V-ing on perch. One followed  
by an F (F call quite loud & penetrating)

B. h. G. suddenly starts chasing h. G.  
Most of the time they just move out of the  
way. One time, however, a gull (one of the  
nesting ones) comes out postures with B. h. G.  
Latter in V-F. Latter mostly in V. Then  
Duce.  Then E (like V, but no  
call) Then int. mov. Ch.?

When B. h. G. does same. Quickly breaks  
up 5:21

Again same and involved in



dispute looked like E afterwards  
(Should mention that earlier when  
B.G. was flying around fighting it  
with S.G. No response, except  
possibly faint weak E)

Juv. Gulls in near-alarm E  
when they land near me ??? 5:32

Seems to be absolutely sure of  
of our ship now. (Although B.G. seems  
to be trying to start things.)

Very dull now 5:51

B.G. then starts pecking with  
a strong. Over then lots of E-WF.  
S.G. doesn't post back. In spec. also ans.  
E (but can't see it). Then S.G. begins  
FB (this is definitely adult) presumably ♀.  
FB behavior just like that of ♀ B.G.  
Same sub. Then B.G. ♂ flies off, attacks



May 11 II

members. 5:58

Of course I have been seeing  
the V of the Silver Gull. Time & again.  
I also again expressed by unity of its  
fidelity, and... could  
we came a few S.G. V together. Followed  
by mutual (fau... maintained, but not  
vegetative) Then our flies of the other might  
have been in momentary low-intensity E, but  
that is all, and even that is not sure.

S.G. is particularly with  
S.G. latter not paying very much attention  
One V-F. Then in what might be called  
moderately  
them well E (with carpal joints raised a  
little 6:27

Aggressive V 3 times preceded  
calls (1 against chorus, 2 against  
other S.G.) Call during raised pre-attacks



May 11 III

(voice was rather muffled, I think).

One of the h.g.'s fleeing before the  
above bird was in an x. posture. Bill  
pointed a bit upward, long thin neck, com-  
mod. raised)

From several times noticed this  
mutter ("head-toss") bill pointed obliquely  
upward in or after h.g. U. In the case of  
one of the juv's, it was just as another  
landed behind it to 137

Things quiet again now  
shelter dispute which I could  
not well see. Between h.g. & h.g.  
h.g. apparently changed. Then stood in  
x posture with bill markedly upward. Then  
stood in E or U posture making rather  
muffled booming noise, while h.g. choked.  
Again stands in this E or U posture, "hums",

May 4 IV

while B. h. g. chokes. Occasionally puts  
head led to ground also. Dispute breaks  
up 6:52

They seem to be clearing up a  
bit now

Bitter fight between B. h. g.  
& A. g. (same one). A. g. rushes in either  
E or U (quite quiet, but not I think  
completely) then real dispute. Finally  
B. h. g. breaks away & flies. A. g. then  
in U, then bill pointed obliquely upward,  
then flies to water, previous 6:57



The B. h. g. is again behaving  
frantically, for no apparent reason 7:05

A. g. attack here in E or U  
posture. Occasional U call. Occasional



May 11 IV

bill wide open without sound.  
After heon leaves one of the gulls  
stays in E for a moment

I have just been told that there  
are 2 pairs nesting fairly obvious. These  
etc off birds who have been involved in disputes  
with B.H.G. They are both standing now,  
preening, on their heels.

Rather dull now 7:30

After a little dispute with a thorn, one  
of the paired birds stands in rather low  
intensity E posture, carpi out of feathers,  
but not very spread

There does appear to be an E posture  
comparable to that of B.H.G.  
semi E after attack 7:41

May 11 VI

One of the jaegers walks around in  
E near chow. Looks quite egg, bill  
pointing slightly downward, carpi not  
spread as far as they often are in ♀ h 9<sup>3</sup>  
sees a few muffed chicks

Jan starting

H. J. in ~~obvious~~ aggressive chase  
in raised head-down posture. Tail  
goes up after opponent flies, but hardly an  
E.

Run 7.48

Little dispute between jaeger gull  
& chow. Gull alternating muffed notes  
with V. Ocas. Ocas put at ground  
(might have been int. mov. of ch.)

Going for a walk 8:00

III  
New behavior of a juv, 9:27. Feeding



May 11 ~~III~~

a skua First a long contumelious  
U Then a mod. long k. Body diagonal  
(that is, mostly neck). Rather reminiscent  
of their "S" posture.



Then it goes into rather thin neck, horizontal  
bill, E. Another pair and 2 red ruffles  
at first. First circles around skua,  
gradual relaxation.

Dispute. 2 birds (at least one  
probably off bird of pair) Mostly U, neck  
reaches. Pair bird much of the time in  
what looked like low-intensity shoving. Head  
all down, wings raised, body approx. horizontal

9.40

Since I see a gull such at another.

May 11 VIII

in more or less "relaxed" posture.  
Then stops short, momentary E, relaxes  
Another attack from E. And  
another one from V. 1:10

It seems as if, in T, head were  
depressed diagonally upward more strongly  
than in the case with B.L.G.

E postures have not been  
conspicuous today



Monday  
May 12

Arrive B.G. cage 5:17. Warm.

Clear day.

Apparently not much of interest going on.

Off land of one of the sitting birds is chased off station by J. Then stands in area E (?) Neck tall & thin, head & bill horizontal, wings out at feathers, makes rather a plaintive "krooning" "power" sound. Low intensity long call? Then relaxes when J. leaves.

E, after attack, quickly followed by relaxation.

B.G. again seems most active of all the gulls 5:32

May 12 II

How much aggression  $\equiv$  looks like  
int. mov. of  $\cup$  in this species.

Look disputing when juv. gets on  
top of humul, but I can't follow it 5:42

Offspring of one of the nesting pairs.

In  $\cup$  posture, more or less, during dispute  
with  $\cup$ . I think giving ruffled wing  
call notes. Rather "hrooming" in effect.

Repeatedly pecks at ground (or at least  
over  $\cup$ 's back & bill to ground) 5:48

Some bird has to get off humul when  
Chorus lands. Stands on ground beside it  
in  $\cup$  posture. Neck stretched, more or less  
vertical. Carpi raised (not as much as in  
B.h.g.) Bill inclined slightly downward.  
Osc. hrooming / hump. Then suddenly  
Chorus advances.  $\cup$  has to retreat  
hunched. In same posture as above, but



May 12 III

head & bell are obliquely inclined upward

Very noticeable. 5:50

↳ by both birds after one changes  
to the other. Quite egg, E, but neck vertical  
(rather like I have drawn it in D.H.G.

6:01

Clouding over rapidly now. Looks  
very much like rain coming up.

Very nice egg E (neck more or  
less vertical, bell inclined slightly but  
definitely downward, carpi. mod raised)  
by off bird when intruder comes near  
nest. This E followed upward. An egg.  
Very, semi attack. Intruder retreats  
precipitately. Attacker stops suddenly  
Head & bell inclined vertically upward,  
at the moment it stops. Only carpi a  
mod. Then V., low uterine. Then



May 12 IV

1) larvae 6:10.

Should mention that I also saw this head & bill obliquely upward at the moment a "climbed" attack was stopped.

Notice that often during V the wings are not held out as far away from the body as they would be by the B.L.G.

Another dispute between 2 of birds. One bird lowers head & bill to ground momentarily several times. I think it is low-intensity display. Muffled version of long call. Rather hoarse & plaintive. (Not as much so as B.L.G. feeding call).

A little dispute between off-bird & 2 Chorus. Gill in E much of the time. Then, when running away from advancing Chorus, its head & bill are pointed strongly



May 12 IV

but obliquely upward (much more so than in air. E / B.L.G.) 6:26

Thrup very dull now 6:45, but the weather is improving

One of the off birds has dispute with ♀ edge duck, by hand Runny around in E or V. Tail spread

feet, wings raised.



Attending various humps, a what sounded like B.L.G attack call

Again notice that yell running from Chorus has bill pointed obliquely upward. 6:53

Again one of the off birds has a dispute with a Chorus. Tail walking in E. Some V?? Then what maybe cut. mov. shaking with plaintive muffled note (generally pleasant long call)

May 12 VI

When it was away from Chorus,  
(several times), head bill angled  
obliquely upward. One or two posture  
to utter a few ruffled hump like notes  
7:02.

Took like rain again 7:10

S.G. don't seem to give any  
sort of N.A. call when they land. The  
B.G. practically always does.

Of course I immediately do an of  
land do it when it lands by himself.  
Seems more or less I call. Continues after  
landing. Some depart out of sight.

Fitting along now - 7:29

Gulls all asleep or preening.  
Gull in more or less I posture,

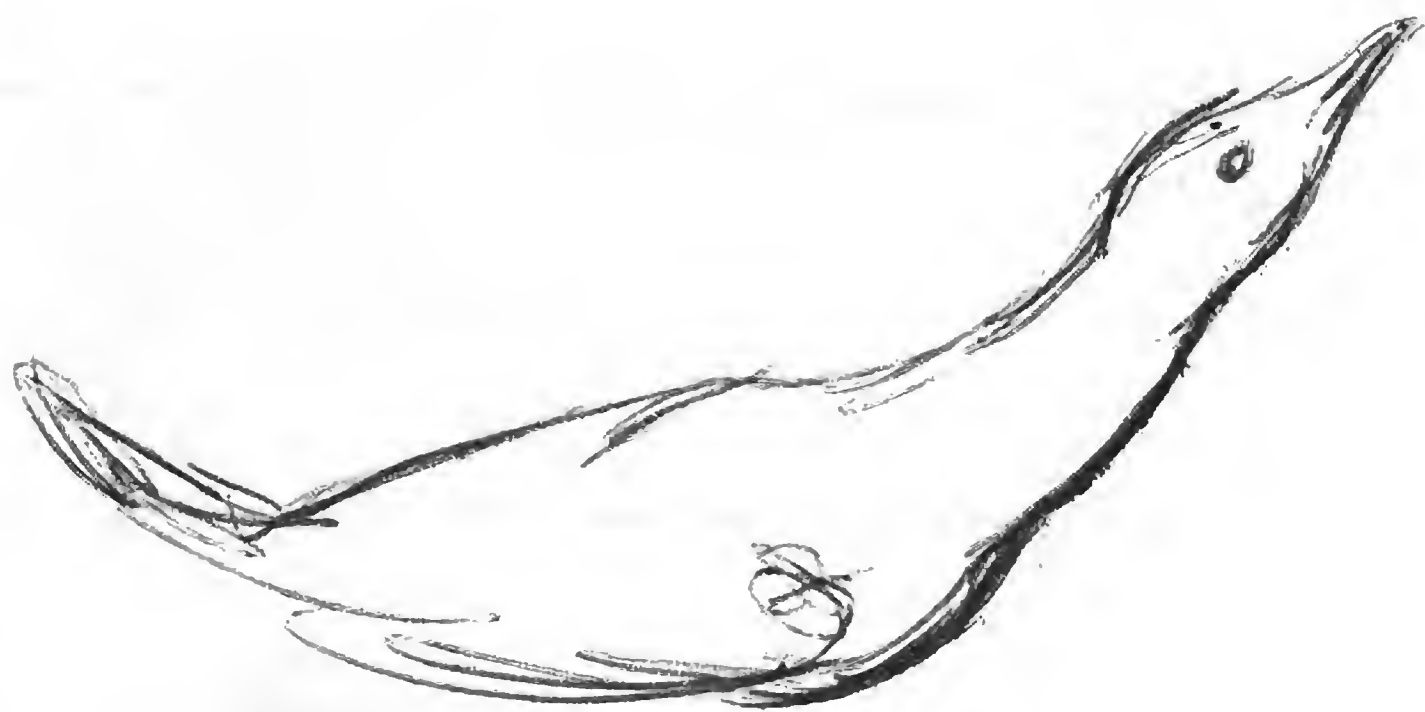
without call (extreme E) at chorus then  
presumably taking it. now - 7:55



May 12 VII

going to leave myself for a while 8:05  
Display by off bird, on ground, when

King Shag flies to humul roof. Same to (?) -  
U - same to (?)



Same to posture

9:47.

Preed in E after attack (neck  
vertical, breast very prominent)

Walking up cage so I  
don't expect to see much more.

Attack from E 10:18

Alarm call, when danger comes  
near nest, seems identical with that  
of B h g.

♀ h g displaying with B h g

May 17 ~~17~~

U-F-E (thin neck) Family of  
but I don't think so 10:28

Little Dispute between 2 of  
birds. One making little "blunted" notes  
(E looked like U)  
from E. The other made ch. int. movements,  
including, practically sitting down. Noise,  
if any, must have been minimal. Long call.  
The more aggressive bird, after about 3  
"blunted" notes, also made ch. int.  
+ mov. Then both relax 10:41

Semi F or Semi S, then F, then,  
then relax, during our dispute.

2 birds in posture like U, but  
reluct. Do we call this agg. E? 11:13



Tuesday  
May 13

Arrive P.G. cage 5:00 a.m.  
Clear fairly cold

Gulls not disturbed by my  
arrival. P.H.G. causing ruckus as usual.

2 juvs. V-ing at one another  
|| No real F-followers! Juvs have stopped  
F-ing you admit. This spring they seem  
to be on their own.

Don't seem to be doing much.  
Just pecking or sleeping.

|| Early V-F by 5:00 when P.H.G.  
comes near nest. Complete high intensity  
|| pattern 5:17.

|| They were still there morning  
|| 5:30.

May

of ideas being. One of the off  
birds apparently. In the bill included  
slightly also inward, but neck not very  
thick. Actually pecked at B. h. g. once

off bird running away from g  
side. Then on the side rock  
scales egg. Sees "scup" actually  
is low intensity & I think quality  
alone 3:52

Another way of depicting. All  
birds congregate when sides obstructed  
birds on nest. Off bird runs away  
all intruders. Attacks at least twice  
from U. two separate. Other birds just  
retreat. Except one pair who U-T

One pair U-T at another. latter  
in their nests U. Two birds from side  
to side slightly but not, I think, real



WAF 3:56

Behavior of B.h.g. & d.g.

Typically inconspicuous. Sometimes

called B.h.g. ♂ had U-F-15-NFC

Then both disappeared from sight.

Looked after them to see if d.g. E-U-F-

E. (E with them walk, bill held out)

or inclined slightly downward, wings

slightly raised). Then d.g. begins

FB from E with HB ♂ B.h.g. flies

off back, uttering attack call. Then

both preen together. ♂ B.h.g. U-F-

then relax. Both preen 6:23.

♂ B.h.g. F ♀ d.g. preens

him. ♂ U-F. Both relax, preen.

♂ B.h.g. E HF, relaxes, then ♀ d.g.

E, then walks away 6:27.

♂ B.h.g. chokes another d.g.







3:30 1:30 - 4:35

~~4:30~~ 7:22  
4:30 9:30

5:30 - 7:50

~~33/8~~



Another mutual display between  
L.G. ♀, & ♂ B.G. ♀ starts after  
♂, U, F (very long sustained for a L.G.)



Fly ♀ L.G.

then ♀ goes into E. Very tall, very  
thin, neck Head more or less horizontal



Head turned slightly  
occasionally from side to  
side. Didn't look  
like HF

then ♂ B.G. flies off  
shows other birds a long time growing  
long all round 8:08

All quiet now

Another mutual between same  
 again. Again in long interval (1)  
 ball pointed strongly upward)  
 they go behind steps, reappear at 1  
 slides -  $\frac{1}{2}$  of track by then ball  $\frac{1}{2}$   
 ball slightly upward). The accuracy  
 they had away from  $\frac{1}{2}$ , not concerned  
 with  $\frac{1}{2}$  of the floor when there  
 was another  $\frac{1}{2}$  of nearly who might  
 have been cause of breaking) 8:12  
~~performance of the ball~~

Again a mutual between same  
 again. Can't see much of it. Again  
 in  $\frac{1}{2}$  pointing slightly upward. Then  $\frac{1}{2}$   
 (again slightly upward). Then  $\frac{1}{2}$  down  
 off again. While performance not very  
 rigorous 8:22  
 Both frequently go ball to step



Bkg

Lg

arr v.

✓

agg v

✓

o

✓



F

✓

ch

✓

HF

1/2

♀ FB

✓

♂ Request

✓

♂ FB

????X

♂ Cop. Call

✓

♂ Feeding Call

✓

arrill Long Call

✓

Landing Call

✓

DFP

?????

Wednesday  
May 14

Close by cage 5:00 still  
quite dark, as it is going to rain at  
any moment.

Falls pig up to peaches  
and down again. In fact  
mostly they are just feeding 5:15  
The pig has now responded  
with absolutely no response

Things happening at all 5:35  
pig just does not seem

very interested  
unusually quiet 5:50

only a petty dispute between  
2 birds (initially both off birds)  
shaking the ground with a denture,





May 14 III

except for many many part the bird  
was sitting attack all in U.

Again B. h. g. displaying with  
another call. The latter being U,  
momentarily F, plus a few  
down. Followed by a B. h. g. who  
U-F-E-U-E-U-E all the while  
in E sitting at feeding call. A R. g.  
part of the time in E (all I could see  
was back view, again noticed how  
stem neck was and how highly stretched  
with neck.

more dispute at next same time  
start of B. h. g. off again (making  
new posture. Bird could be low  
intensity, clucking or a feeding posture,  
more or feeding call. No response  
from R. g. 19658



July 14 IV

During above display, where  $\sigma$  was in E, she turned head from side to side. Does look like HF

Notice that E is oriented with head pointing upward if apparent in above.

E twice preceding attacks B & C apparently pointing downward 7:03

Learning myself 7:15

Notice that in V posture neck strongly inclined forward.

Neutral display between B & G  $\sigma$  &  $\sigma$  ♀. latter in E (rather than neck, not very tense appearing) after F. Tr  
sup of HF 7:16

Learning myself before rain rally breaks 7:21



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The page contains extremely faint, illegible text that appears to be bleed-through from the reverse side. The text is organized into several horizontal lines, suggesting a list or a series of entries. The lines are spaced out vertically, with approximately 15-20 lines of text visible across the page. The characters are too light to be read accurately, but they seem to follow a structured format, possibly including names, dates, or short descriptions.

A. Lanius Long Call

"krooo - krooooo - krooooo"

ascending  
pitch

soft, fairly long drawn. Head & neck  
inclined obliquely upward & forward.

Then "krooo - krooo - krooo - krooo"; faster,  
shorter, head pointed vertically upward.

Bill wide open.

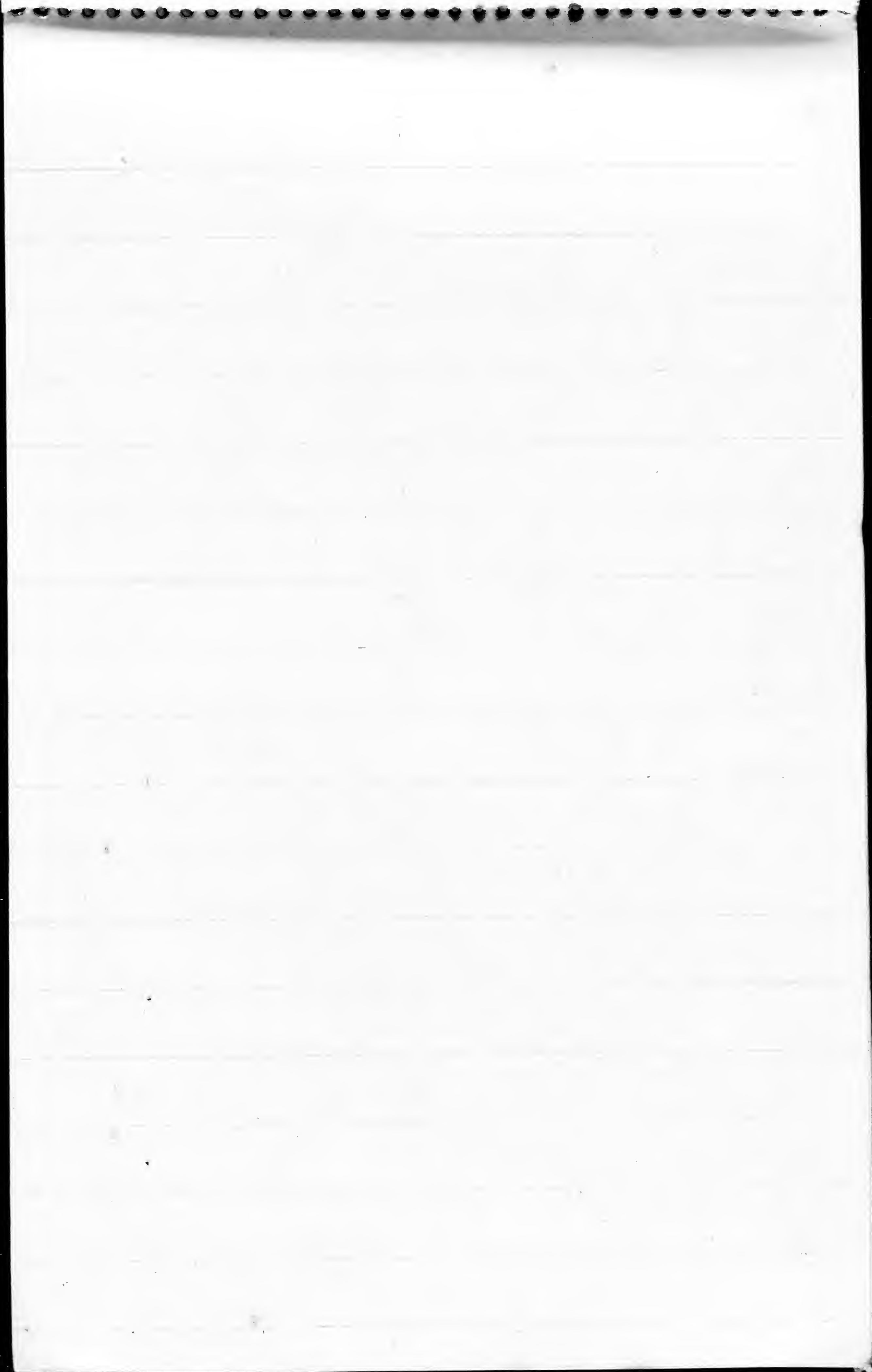
descending  
pitch

Head first horizontal, then vertical,  
then horizontal. Calls go up then down  
in pitch. Longest around first rising-  
vertical transition.

Wings not raised (as last call)

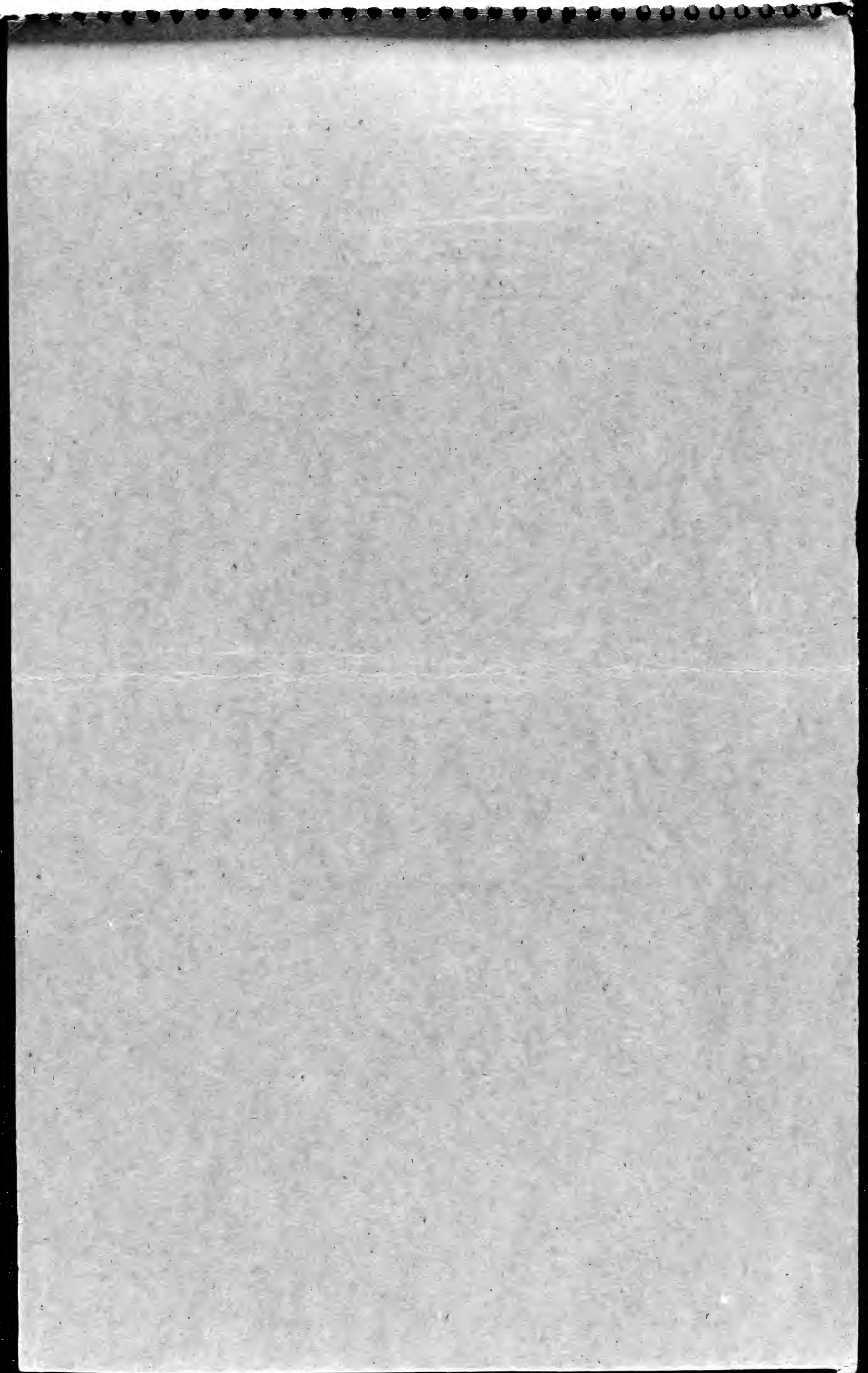
Two low, kroooooo notes  
gradually getting shorter.



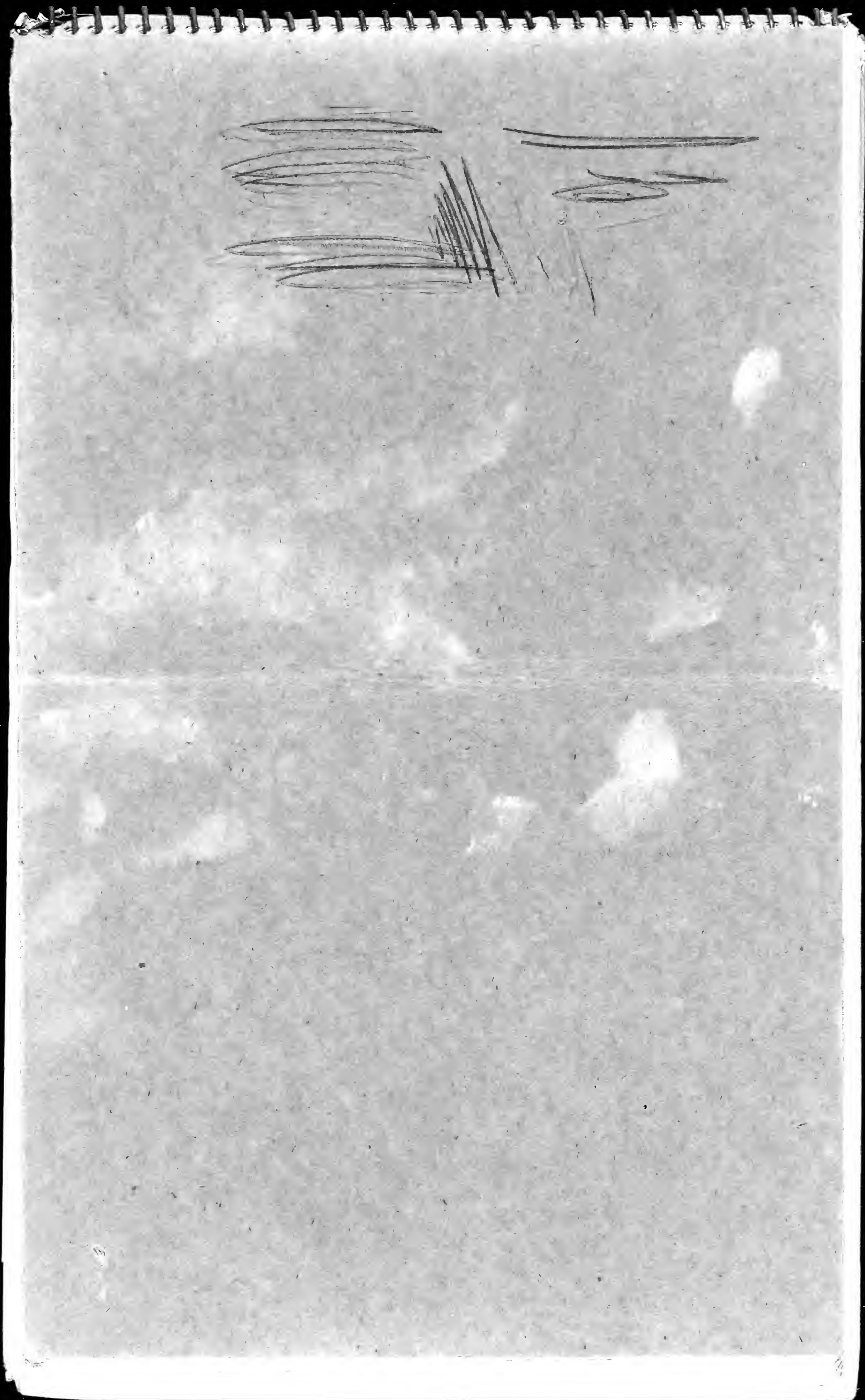














Bonaparte's Gull

1953

FRIDAY

AUGUST 14

1. Aerial Long Call Note "Kree aah" (Banjo twang)  
accompanying posture just like B. h. G.
2. Ground Long Call "Krah Krah Krah Krah"
3. Landing Call. "Typical form heard only once (definite) usually  
silent on landing Occasionally single note"
4. Uprights? Very low intensity Both Aggressive & Anxiety
5. Oblique. Common. With Long Call (at least most of time) some  
versions like B. h. G. High intensity & low intensity. Other  
versions much higher stretch. Same sound? Approaching  
vertical?  
Oblique and Long Call often preceding attack. Oblique  
only a trace of true Oblique posture, definite "krah" sound
6. Forwards? Occasionally alternated with Obliques Look like  
B. h. G. Forwards, but neck apparently less extended

---

In none of the ground displays (observed well) are  
the carpal joints prominently lifted away from the body. Also  
no cases of tail raising