

turned out together on to hawberland
mountains, & one particular breed
is found to succeed so much
better than all the others,
that it fairly drives the others
to death: I do here say
that natural selection picks
out the breed, & would lead
to improve it too abominably
to have formed it. -

Many thanks for sad & opinionous
admonition: I must confess
you will I have seen ⁱⁿ Bees &
which making, I see no definitely what
- furniture, I see no definitely what
- Bees enjoy the individuals;
& I would venture to predict
that it has a victory on bills
sides instead of on off the side,

18.

Down Bromley Kent

Nov. 29.

My dear Gray

This shall be such an extraordinary
note as you have never received
from me, for it shall not contain
one single question or request.
I thank you for your unpeopled
opⁿ of views. Every criticism from
a good man - is of value to me.
What you hint at generally is
very very true, that of work
will be given up by metrical &
large parts & no mean parts
of being called into discussion.
comment even being fully
indictive from too few facts. -

I had not thought of your objection
of my using the term "natural
selection" as an agent; I
use it much as a scientist
does to ward demudation, for
an agent, specifying the result
of several combined actions.

I will take care to explain
my usage of inference, what I
mean of the term; for I
must use it, otherwise I ^{1st} &
now ^{2nd} have to expand it
^{Then miserably expanded}
into some such formula as
the following, "the tendency to the
preservation of ~~right~~ ^{survival} to the severe struggle
for life to which all organic

beings at some time or generation are
exposed) & say the slightest
variation in any part, which
is of the slightest use or service
to the life of the individual
which has been carried; together
with the tendency to its inheritance
any variation, which was of no
use whatever to the individual,
would not be preserved & thus
we get of "natural selection". But
I will not weary you of going
on; as I do not suppose I do
make my meaning clearer without
large expansion. — I will off at
one other sentence: ~~now come~~
^{f. these}
& several varieties ^{have been} been

natural cause, t. a species
produced by the separate act of
the Hand of God. But I am
running on foolishly. - By
the way I met to other day
Phillips, the Palaeontologist, & he
asked me "How do you define
a species?" - I answered "I cannot"
he said "at last" J.
W. Leopold
has pointed out to my time
definitions, any form which
has ever had a specific
name!

I am infinitely obliged to you
for your offer (if you can even
find time, & how much overworked
you seem to be) of considering

Gray 18th
for the sort of cap & pointed
petals can be pushed into
each other both ways, but
when this is off one velocity
it can be pulled (as far as
I have seen) off one way:
Leopold, I observe, brings forward
Fumaria as a genus which
will be wiped off natural
means, where I suspect it
means, that it is found in direct
relation to some rising!!
I sent you Gardner's Climber
with little notice in Kidney
Beans: since writing it, I have
noticed a most curious lot
of Beans naturally capped, & the
seed-coats affected by the frost

act of fortification, like fortifications
Pea case. - By the way I must
tell you what I heard yesterday,
that ~~there~~ ^{is} in your tree, but no
subject of ^(Balanus) copy of individuals.
Barnacles, are hermaphrodite &
with their well shut up shell offer
as great difficulty to copying
as can well be conceived: I
find one individual with
monstrosities & imperfect penis, but
not with fertilized ova; but I
had not time to determine whether it might
not be case of parthenogenesis or
a strange accident of some
floating ~~hermaphrodite~~; well yesterday I
had an account of a man who
watching ^{one} letter, saw one
patient it was informed

penis, & inserted it in the shell of an
existing individual! So here is a
load off my mind. —

You speak of species not having
any material basis to rest on;
but is the ex. gr. gaster hermaphrodite
than deciding what deserves to be
called a variety & be designated
by a specific name. When I was
at ^{the} Terrestrial work, I knew I
had to have no other difficulty
than (great enough) than deciding
whether to form a new distinct
variety & deserve a name; & at
least to be hampered with undetermined
a unanswered question whether
it was a true species. What
a jinx it is for a well
marked variety, produced &

My dear Gray
Your hearty affec'd
C. Darwin

How I wish I knew what large
(or large it must be) ~~accents~~ ^{with a Hairy Bee}
visits a fertilized *Lobelia*
fulgens in its native home;
do you know any southern
young Botanist who would look to
this? I would come & plant
with a very coarse gauge
cap, & then not a pod would
set I believe. But if
you have written of your
& a set of questions or requests!

again Gray 18.
a bit of close weaving, such as
Hooke would perhaps think
together: you could not do me
a more essential service.
If you do it, will you please
late, if in your power, large
& small orders as they come,
so properly there may be some
difference in the size. In large
natural & small broken families.
I intend to go up the
with Ledebour, as far as
new varieties are concerned.
all
In Ledebour & many other
Floras, I find to take unusual

of the large genera presenting
most varieties. In the
British Flora, & in Walpers'
aid, I have struck out
the most trifling varieties
& I find the rule holds
good, as it also does
with the forms which
most British Botanists rank
as species, but which some
one Botanist has considered
a variety. This rule, as
I must consider it of the
large genera varying most,

I look at as most
^{fr. y. work} important, & I believe it
to be the foundation of the
method in which all
members ^{in dependence} of
being are grouped together
with ~~but~~ ^{that} I take ^{names} ~~names~~
calling ^{by} principle of dependence
ie belonging to ^{from extinction} the
~~or~~ present ⁱⁿ presentation of the
most different members of
each group. But I am
annoying myself & scribbling
away all of my notes
without any ^{use} ~~use~~.

Farewell, & believe



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