

Transcription of John Templeton's Journals

The John Templeton archive is held by the Ulster Museum. The Museum copied the Templeton Journals in half-yearly segments on microfiche (released in PDF) and have made them available to the Belfast Naturalist Field Club to facilitate a project to transcribe these remarkable handwritten Journals into a digital format and make them available to a wider readership.

The result is an accurate, uncorrected and unedited line by line transcription of the pdf copy of the Journals, preserving Templeton's original spelling, erratic punctuation, insertions and layout. The number in bold on the left relates to the Ulster Museum's PDF page number so it is easy to navigate back to the original text. The next number is the date given in the Journal. Occasionally Templeton numbers his Journal pages and where present these are given on the right. Editorial comment is in square brackets, Latin names are in italiics. A fully edited version with footnotes and summary appendices is in preparation.

Templeton Journal 1808 Fiche No 1 1 January to 17 August

Initial transcription

118 pages, 13006 words

PDF	DAY	MONTH/YEAR	JOURNAL PAGE
-----	-----	------------	--------------

2

(1)

January 1808

1 Slight Frost rain and Wind at
night

2 Slight Frost and a Slight hail
shower

That Man was not intended by nature for purposes base and ignoble, none will deny; and, if arguments were wanted, they might be drawn from that eternal inquiry after whatever is grand dignified, or exalted; and, finally, after a state superior to our present terrestrial one. For it is not too much to assert, that we approach the Divinity in nothing so much as

in Wisdom. Hence, as the arts are
connected with Wisdom, as men be-
-come careless of their culture, they
become equally incapable of ful-
-filling the duties of social beings.
For knowledge is what humanizes

Mankind

3

(2)

January 1808

Mankind; reason inclines them to
mildness, but ignorance generates
prejudice, which eradicates every
tender feeling

Tillocks Phil. Mag 14. 219

— Volumes of verbal description
will never convey so true and Idea of
a thing as the most slight sketch.

Hence the source of much of our know-
-ledge of Antiquity, of which language
could convey no adequate Idea.

To be able on the spot to make a
scetch of a fine building beautiful
prospect, or any curious production
of Nature of art, is not only a very
desirable and elegant accomplish-
-ment, but in the highest degree enter-
-taining. To treasure up whatever
may occur in our travels, either for
future use or to illustrate conversa-

-tion, to represent the deeds of the
great

4

(3)

January 1808

great of former ages, to preserve the
features of our most valued friends,
has made this art not only one of
the highest embellishments of
our nature, but the delight of
all ages. The greatest writers
have united to praise, and empires
to encourage it. It has been in
the highest degree morally useful;
and, where it has flourished, con-
ferred honour on the country.

In fact society could not sustain
a more severe loss than in being
deprived of it; as many comforts,
and all those elegancies that
adorn the present state of our
being, must depart with it.

What has been the fate of those
people whose lawgivers forbid the
practice of one part of the ele-
-gant arts? It appears they well

knew

5

(4)

January 1808

knew, that where art resides, wisdom will ever be of the party; and dreaded the downfall of opinions built on a false base.

Wisdom is power, and power is what preserves a nation: hence those who shut the door against knowledge are wilfully seeking their own destruction: such is precisely the present state of the Turkish empire

Ye Gods! what Justice rules the ball!

Freedom and arts together fall:

Fools grant whate'er ambition craves;

And Man once ignorant are slaves.

Pope

What was the fate of Crete, that was so renowned for her wisdom, valour, and laws? How did she sink under the tyranny and oppression of Rome? With their freedom departed their arts, their Sci-

-ences

6

(5)

January 1808

-ences, their valour, and their virtues.

With the loss of Liberty we lose all the ardour nature has furnished us with to strengthen and support

the flame of genius and the ardent
glow of valour: without it we be-
-come destitute of vigorous resolu-
-tion, and sink below the natural
virtue and dignity of our Species

Tillocks Phil Mag. 14. 221

On the Ore Uranium

C. Sage ——Thinking, like all those
who possess any elevation of mind, &
a Philosophical spirit in cultivating
the Sciences, that it is more proper to
consecrate the names of men who
have enriched them by their disco-
-veries, than those of the fabulous
deities, and greatmen who resemble
these deities in a great many points,
C. Sage wished that the name of Ura-
-nium

7

(6)

January 1808

-nium given to this Metal by the
Germans, who called the Planet dis-
-covered by Herschel Uranus, might
be changed. In applauding these
motives, it will perhaps be found
that the names of celebrated Men
ought to be assigned to those things
which have been the particular
objects of their attention, and that

Klaproth, who discovered this metal has a greater right than any other to distinguish it by his name.

The French seem constantly to agree in giving the name of Herschel to the Planet which he brought from that obscurity under which it had been concealed for so many ages; and, by the effect of the same sentiment of justice, the names of Piazzi and Olbers will undoubtedly remain to those discovered by these astronomers.

Zoo-

8

(7)

January 1808

Zoologists and Botanists now consecrate to their masters and friends the Genera and species which they discover; and Mineralogists no doubt will soon follow their example.

The name of Scheele, so justly celebrated, has already been substituted for that of Tungsten.

Tillock Phil Mag. 14. p. 276

Although a Characteristic Generic and specific name would be most desirable yet as after the discovery of numerous species, a new arrangement of the spe

-cies and new characters are often a-
-dopted, a continual fluctuation
in the names will be the consequence
it seems better to distinguish the
species by permanent names, un-
connected with either the Character
or habitation, this last is the most
liable to objection of any, for few plants
are confined by Geographical bounda
-ries

9

(8)

January 1808

-ries, or other situations, therefore *Gal-*
-lica, Germanica, hibernica, petroea
alpina should be laid aside, or
rather never made use of

3 Showers of Snow

4 Frosty Morning Rainy Afternoon

5 Slight Frost Rainy forenoon

Beauvois on the Seeds of *Mosses* and *Fun*

gi - he contends that the seed is con

-tained within the Gills of *Agarics*

&c and considers the seed in the Gills

or points of *Hydnii* as the Pollen and

that it is at the moment of explosion

and consequently after they are fully

evolved that he believes the seeds of

the *Lycopeden*, like those of *Mosses*

are penndated [=pedated].

Mr. de Candolle treats of Parasitical
Mushrooms which are evolved under the
epidermis of vegetables, and which
frequently produce fatal diseases among
several

10

(9)

January 1808

several usefull plants, the rust and smut
which destroys oats and the caries whi-
-ch vitiates Wheat, are probably attri-
butable to this cause. It has hither-
-to been supposed, that these Mush-
-rooms were introduced by the pores
of the Epidermis, but as coloured li-
-quors do not pass through these
pores without difficulty, and as
simple contact has been found
insufficient to impart these dis-
-eases to a healthy plant M. de
C- is of opinion that their germs
are introduced by the roots along with
the nutritive juices which support
the vegetable, and that they circulate
through the vessels till they reach
those places best calculated for their
development He compares them
in this respect to intestinal
worms, which can only subsist in

the interior of the body of Man

and

11

(10)

January 1808

and other Animals. From this theory and from the observation that each species of parasitical mushroom can only propagate itself in plants of the same family, he deduces rules, from which the agriculturalist may derive great advantage in stopping this kind of contagion —————-Mon. Mag 24. p 376

In a Memoir upon Marine Algae, he demonstrates that these plants are not furnished with real roots: that no trace whatever of vessels is discoverable in any part of their structure; that they absorb humidity by their whole surface; and that they liberate oxygen gas, when exposed to light in proportion to their green colour. He also asserts, that the small grains hitherto regarded as seeds are only capsules, and contain grains much smaller, covered with a viscous matter, which fixes them in situations adapted for their

12

(11)

January 1808

their germination

See Monthly Magazine 24. p376

- 6 Mild Moist day without rain
- 7 Same
- 8 Pleasant Mild day without rain
Great Blue titmouse singing
- 9 Misty Wet Morning
Thrush singing
- 10 Barometer 30 - 39
- 11
- 12
- 13 At night came on to blow
hard at W shifted towards the
North
- 14 A great storm at North
Ships driven from their an-
-chors - became very cold about
10 AM Wind fell off at ebb tide

13

(12)

January 1808

- 15 Hard frost and Ice half an inch
thick, but a Mild pleasant day
at 9 PM Ther - 25°
- 16 Snow on the Ground at 9 A.M
Ther - 35
- 17 Frost but not severe road thawed
in the Middle of the day frozen

at Night.

Heard from Mr Frank Rainy that
a Spoonbill had been killed at
Ballydrain Lake

- 18 Mild dry day
19 Wet day
20 Snow Showers Ther at 9 PM 23
21 Snow lying about 2 inches thick
Ther at 9 PM. 25
22 Frosty
23 Frosty
Received from Mr Mackay by
Mr Tennant

14

(13)

January 1808

1 *Saxifraga*

From the Summit of Brandon

2 *cæspitosa* ?

3 *hirsuta*

4 *Geum*

5 *Umbrosa*

6 var *nova*

7 *adscendens*

8 *Silem acaulis*

9 *Churanthus sinnatus*

10 *Arenaria ciliata*

11 *Anthyllis Vulneraria* var 13.

With seed of *Bartsia viscosa*

Centunculus minimus &

Draba incana

- 24 Frost with slight snow Showers
25 Frosty with heavy snow showers
being engaged in removing a ve-
-ry large thorn for Dr Crawford
the water of the melting Snow
by a Cold. Chart was frozen on my

15

(14)

January 1808

hat and Cloth into hard Ice

- 26 Hard frost with some snow show
-ers
27 Snow falling till about 1 AM then
a rapid thaw commenced at Night
began to blow a Storm towards Mor-
-ning blew very hard
28 Snow Showers hard gales during the
night
29 Snow showers
30 Misty day especially in town
I have often observed that while
the whole country was clear the
town was enveloped in Mist, and
from accounts London and other great
Cities, are darkened in proportion to
their size, can the draught of air
towards the centre of town be the
cause of this or can it be owing to
the affinity of Mist to Carbonic

16

(15)

January 1808

Gas which is always rising from col-
-lections of putrifying matter in Cities
and town an observation of Mr. Ten-
-nants made in the Neighbourhood
of Dublin seems to favour this last
opinion, he observed that some mea-
-dows which had been lately ma-
-nured were covered with mist
while the surrounding fields were
clear of it

- 31 Mild day dry and tolerably Clear
Narcissus Psuedo Narcissus
an inch above ground

17

(16)

February 1808

- 1 Mild morning very wet afternoon &
Night
Snowdrops out of the Spatha
- 2 Slight Shower in the Morning a fine
drying day
Found a Microscopic insect like
this its motion very quick sometimes
revolving



- 3 Pleasant day with slight Frost in
the Morning Stormy at night
- 4 The Same - Stormy at night
Attended a Meeting of the Belfast
Academic Institution at the Ex-
-change room when after hearing
the Report of the proceedings of
the Committee the proprietors
proprietors proceeded to the Elec-
-tion. Vice presidents, Managers
Secretary, Treasurer, Honory Visi-
-tors and Ordinary Visitors, one

18

(17)

February 1808

of which I had the honour to be chosen

Received by Mr. Groves a bundle

of Plants from Mr. Underwood of

Glasnevin Garden

1	<i>Silene acaulis</i>	19	<i>Paeonia albiflora</i>
2	<i>Polemonium reptans</i>	20	<i>anomala</i>
3	<i>Adoxa Moschatellina</i>	21	<i>Arenaria ciliata</i>
4	<i>Draba airgoides</i>	22	<i>Poa</i> [2 runs?]

- 5 *Pyrus salicifolia*
- 6 *nivalis*
- 7 *Prunus pensylvanica*
- 8 *Ribes cynosbati*
- 9 — — *petræum*
- 10 — — *spicatum*
- 11 *Syringa chinensis*
- 12 *Asperula cynauchia*
- 13 *Convolvulus lineatus*
- 14 *Salix caprea mas*
- 15 — — *pistillaris*
- 16 *Cistus scabrosus*
- 17 — — *Lidon*
- 18 *Lychnis quadridentata*

5 A Pleasant mild day but Stormy at
night

19

[Repeat of pdf 17: February 1808 (16)]

20

[Repeat of pdf 18: February 1808 (17)]

21

(18)

February 1808

- 6 Frosty Morning but pleasant day
- 7 Mild day Peacock got from Mr Clark
dead.

- 8 Hard frost cold day Chaffinch sings
- 9 Hard frost a thin layer of Snow
very pleasant day
- 10 Pleasant Clear frosty day
- 11 Frosty Morning great snow most part
of the day
- 12 A very evenly layer of Snow
7 or 8 inches deep Ther at 9 PM
24
- 13 Hard frost and bright day Ther at 9
P.M. 24.
Hedge Sparrow and Chaffinch sing
ing
- 14 Snowing all the fore part of the
day, but the Thermometer gradu
-ally rising and the thaw com-
-mensed [?]
- 15 Snow going away Misty day
- 16 Mild pleasant day
Great Blue titmouse singing

22

(19)

February 1808

- 17 Mild pleasant day Ther at 12. 47°
Wren, Woodlark, trush and Chaffinch
singing

Heleoborus hyemalis in Flower

- 18 Mild pleasant day
- 19 Hill showers pleasant, Misty at
Night
- 20 Somewhat Misty but dry and plea
-sant mild day *Erythronium Dens*
Canis emerging.
- 21 Pleasant dark dry day
- 22 Very fine bright day.
- 23 Very fine day
Whin chat and Stone Chat
both here
- 24 Cold dark day
Shovelling Wheat sown yesterday
in the Oak tree field.
That which was sown a few days before
Christmas about 2 inches up,
that which was sown about Old
January scarcely up

23

(20)

February 1808

- 25 Cold dark day dry
Hedge sparrow singing
- 26 Wry gentle rain several times
during the day

27 Warm day gentle Showers
Hepatica in flower buds of Cher
ries and plums whitening
Grafted *Pyrus salcifolia* on Quince
Pear and Apple stock, also on
pieces of roots, which I planted
in a pot covering the cut parts
with earth -
Grafted *Pyrus nivalis* in the
same manner -
Also *Prunus pensylvanica* on
Prunus virginica - and also
one on a cutting of a root whi
-ch I put in a pot - and trans-
-ferred with all the others in the
pots into the greenhouse
Prunus Pensylvanica all failed and all
the Pears grafted on the roots
All Failed

24

(21)

February 1808

28 Rain during the night, a warm
Calm somewhat cloudy day
The Barometer which had
been very high at 30. 49 fell

a little last night.

Snow still lying at some ditch

backs

29 Pleasant Mild day had been

rain during the night

A Blackbird Whistling

Crocus *mæsianicus* some in Fl

Frogs spawn

25

(22)

March 1808

1 Pleasant mild day had been

rain in the night

Planted *Populus alba* & Alders

in the slipped part of the ditch

at the Rushy bog opposite Mr

Gills field.

2 Rain in the Morning about one

became a very fine day

Transplanted 2 Pineapple pippin

and a Pearmine Apple tree in

-to raised lumps in the Orchard

3 Pleasant warm day

Larch shows green at the buds

Frogs croaking in every ditch

this evening

- 4 Pleasant dry day
5 Pleasant bright warm day

Ther at 12 56 —

Cut grafts of *Crataegus tormina*

-*lis* at Belvoir

Grafted

26

(23)

March 1808

grafted on the roots of *Prunus virgini*

-*aca* and *avium*, *Prunus pensylvani*

-*ca* - This method has been lately

described as very successful in

England in the Monthly review

for last month, it by raising

some of the roots out of the ground

inserting the graft and putting

them into the ground leaving 2 or

3 eyes only of the bud above ground

next season these may be raised

and become trees, by this means

one stock will serve for many

years as only some of the roots

will be taken - All Failed

Erythronium Dens Canis, *Taxus*

Scilla bifolia Flowering

6 Slight Frost but bright pleasant
Viola odorata Flowering *Crocus*
vernus Neapolitanus Flowering

7 Cool dry day

8

27

(24)

March 1808

8 Dry pleasant day but cool

Grafted *Prunus pendula* & Yellow
berrried thorn.

9 Cool dry day wind N Easterly

10 Same

11 Same

12 Same

Received from Mr Harvey

Cyclamen hederæfolium

Prinos glabra

Rhus elegans

Philadelphus

Calycanthus

Tamarisc germanica

gallica

No. 30 *Pancreatium maritimum*

71 *Atragene Austriaca*

75 *Robinia Pygmaea*

- 76 *Spinosa*
 80 *Liquidamberimberbe*
 82 *Diospyrus Lotus*
 83 *Daphne pontica*

88

28

(25)

March 1808

- 88 *Spiroea Ulmifolia*
 89 *Thalictroides*
 91 *Tilia microphylla*
 92 ——— *pubescens*
 93 ——— *alba*

from Mr Whitley

Vaccinium crassifolium

—————
 —————

- 13 Cold day wind NE Ther at 9 PM
 29½.
- 14 Ice on the pond which remain
 -ed all day. Mild evening.
 Cornelian Cherry Flowering and
Primula acaulis
- 15 Cold dry day no sun
- 16 Dark cold day a few drops of Sleet
 Transplanted a large *Buddlea*.

- 17 Dark cold dry day. Snow on
the Mountain top
- 18 Dark cold dry day snow remain
ing on the Mountain tops
- 19 Snow falling in small quantity
through the day but melting
in the lowland. Ther at 9 AM 33½
- 20 Cold rain from the East all day

29

(26)

March 1808

- 21 Misty rain from the Eastward
- 22 Dark cool day with snow on the
Mountain tops Wind easterly.
Transplanted the squills at
the end of the Greenhouse and
Prunus carolinianum
- 23 Cold day dry day, but about 9
PM. Solitary flakes of snow falling
- 24 Solitary flakes of snow falling
Ther at 8 AM. 34. Snow showers in
the afternoon
- 25 A snow shower which whitened
the ground. Ther at 8 AM. 33½.
Called NE wind
- 26 Dark cold Morning Ther at 9 AM 38

Wind Easterly

Eulix europæus with flowers

27 Dark cold Morning Ther at 9AM

37 Wind Easterly

28 Dark cold day NE wind. Clear starry
night.

29 Hoar frost and Ice on ditches till after

12

30

(27)

March 1808

12 o'clock.

Leontodon Dens Canis Flowering

Roach appear today at the surface

of the Pond & Bees about *Erica saxatilis*

Brilliant and warm in the sun.

Ther. at 2 PM. 42

30 Frosty Morning Ther at 9 AM 36

Pleasant bright day very mild

Evening

31 Pleasant Warmish day while

the sun shone Ther at 9 AM 36

April

1 Ther at 9 AM. 40 had been some
moisture which appeared on

the Stones about the door in the
Morning - sowed *Bartsia viscosa* *Centun-*
-culus minimus *Draba incana*,

- 2 Ther at 8 AM 35 Pleasant day
with sometimes sunshine
- 3 Ther at 9 AM. 45½ has been a shower
some slight showers towards night
The summer of 1798 a Peahen not getting
leave to hatch layed 23 Eggs

31

(28)

April 1808

- 4 Ther at 9 AM. 51 after a wet stormy
-y night showers during the day
Ther. about 12 59°
Double Daffodils and *Fragaria ste*
-rilis Flo.
- 5 Ther at 9. AM. 48. Windy Wet night
Pleasant day after the rain ceased
with some sunshine
Sowed Myrtle seed
Grafted Harvey Apple 4 grafts in the
Pea field 2 in the Nursery
Grafted 2 *Prunus siberica*
- 6 Ther at 8 AM. 40. dark Morning with
slight rain. Heavy Rain during

the day

7 Ther at 8 AM. 40½ fine Sunny

Morning same through the day

8 Ther at 8 AM 45 - Sunny Morning

after rain drying windy day

Ranunculus Ficaria, Ornithogalum luteum

Flowering

32

(29)

April 1808

9 Ther at 9 AM. 46½. A small shower

during the Day

Oxalis Acetosella, Flowering

Anemone Nemorosa Flowering

On the Coast of C Antrim near

is a recess amidst

the opining rocks which from convenience

for landing has been denominated

the Smugglers hall amidst a variety

of tales of their exploits related by an

Old and enthusiastic Smuggler, was

the following. It is customer for these

people to consign to the care of each

other valuable cargoes which are

conducted by unfailing honour

to a place of Safety, once a valuable

cargo was entrusted to the care of the
relater who had got it safe on shore
and was proceed through the defile
with about 30 others when an alarm
was given that a Customhouse officer
was seen at a distance, and that

ter-

33

(30)

terror inspiring object struck with conster-
-nation the whole gang of Smugglers, but
urged to desperation, on recovering a
little from the fright, the chief advanced
up to the awe inspiring man, with
a pair of pistol, and told him that
a very valuable cargo had been en-
-trusted to his care which he was re-
-solved not to part with, that if he
offered to make any resistance he would
shoot him but that if he went qui-
-etly about his business there was
a horse with a good chest of tea at
his service, the officer took the horse
and tea, and had got to some dis-
-tance when it was discovered that
instead of tea he had got a package

worth above £100, the chief then follow-
-ed after him told him the mistake
and demanded the return of the pac-
-kage which was complied with, and
they

34

(31)

they parted perhaps equally pleased
that they had not met with resistance
This same chief of the Smugglers re-
-lated his having fought when on
board his own vessel, a Revenue cut-
-ter for an hour and a half near the
fair head, and that being even obli-
-ged to run his vessel ashore he had
beat the cutter off.

It is strange that this man had the
most terrible opinion of the unprinci-
-pled people with whom he had to
work, he said he thought of them the
most horrid rascals that ever were
created, that he had by every means
to conform to their caprices, yet
did he continue to associate with
them and seem to find a plea-
-sure which attached him to

these desperate adventures.

Related by Mr R. Robinson

Portrait Painter.

35

(32)

April 1808

10 Ther at 9 AM. 50 pleasant day
with a few drops of Rain in the
forenoon

Bought a hedge hog from
some boys

While the Hare is endowed with swiftness
and the Fox with both speed and cunning
the harmless Hedgehog meekly submit-
-sive endures the most barbarous treat-
-ment without complaint, rolled in its
spiny armour blows only serve to make
it contract itself more forcibly, and its
patient resistance is only overcome
by submersion in water, where the
poor animal to preserve itself from
suffocation is obliged to show its
defenceless head, and exert a facul-
-ty which it has before made use of
when obliged to cross waters in its
nocturnal wanderings.

Content with a Scanty subsistence
derived from roots, fruit, and some say

Worms

36

(33)

April 1808

Worms and insects, it seldom moves far
from its mossy recess, but spends in
Sleep and indolence revolving seasons.

During winter

it is said to Sleep continually but as
it does not like the marmot (*Arctomys*
Marmota) retire under ground where
an equable temperature prevails, this
appears very doubtful, But as it is so
seldom seen even during the sum -
except when taken by force from
its haunt little is known of its plea-
-sures or propensities. It has been
accused of sucking cows, and carrying
off

37

(33)

April 1808

off from an Orchard as many Apples
as it could stick on its prickles both

which on examination of the animal will at once contradict, the first is out of its power from the smallest of its mouth, and the Spines are too close and too short for it to accomplish the second. The celebrated Buffon says he permitted several of them to go about his Garden, that they did little damage, and it was scarcely perceptible that they were there. They lived upon the fruit which fell from the trees, they dug the earth into shallow holes with their snouts, they ate caterpillars, beetles, worms and some kinds of roots; they were also very fond of flesh, which they devoured either raw boiled or roasted, as it was presented to them.

38

(34)

April 1808

11 Ther at 9. AM. 50. Trifling Showers
in Malone heavy in Belfast in the
Evening

Andromeda calyculata Flowering

Sowed Laburnum, White Broom, Thyme

hyssop Summer & winter Savory &c

12 Ther at 9 AM. 51 - pleasant Sun

shine day

13 Ther at 9 AM. 49. Pleasant day

2 Swallows seen at the Road

Viola Canina Flowering

14 Ther at 9 AM 50.

15 Ther. at 8 AM. 47 - Some small

Showers

16 Ther at 9 AM - 45. Clear day

some hail falling

17 Ther at 9 AM. 41. Cold clear day

18 Ther at 9 AM. 40 Snow and hail

Showers

19 Ther at 8 AM. 38. Ice on water

to the middle of the day hail

Showers. Mourne Mountains all

white.

39

(35)

April 1808

20 Ther. at 8 AM. 35.

Willow Wren come *Salix Russeliama*

with leaves 1 inch long

Received from Mr Harvey

and a Shrub supposed

Halesia

Mispilus

21 Ther at 8. AM. 38

Determined a lichen found Decr. 3

1806 and January 7. 1807 to be

Lichen analeptus E. Bot. 1808

Verrucaria analepta. Ach. Pro. 15

22 Ther at 8. 40 Sleet falling Moun-

-tains white after a very stormy

Night Showers through the day

wind strong blasts Nearly North

40

(36)

April 1808

23 Ther at 9 AM. 43. night windy

Windy day wind Northerly

Arabis alpina & *Adonis Vernalis*

Flowering.

Determined *Lecidea pinicola* En. Bot 1851

Found on Scotch Pine Decr. 27. 1807 & Ap 1

23. 1808

Examined and made a figure of the

Red substance observed for a length

of time on the Greenhouse floor

&c Found it *Tremella cruenta* En

Bot. 1800.

24 Ther at 8½ AM. 42½ Pleasant but
not very bright day
Ranunculus amplexicaule Flowering
Made a drawing of Brown crusted
black margin *Opegrapha* fig No. 9
and of *Grimmia crispula* found on
the timber of the 2nd lock
Read the Statistical Survey
of the C. Wexford & Kildare in which
I found a great deal of Curious
matter

41

(37)

April 1808

25 Ther. at 8 AM. 43. Pleasant bright
day

26 Ther at 8 AM. 43. Dry dark
day wind yet Northerly
Talking on the Herring Fishery
(Mr. Tennent gave it as his opinion
that the Herrings comming from the
Northward dividing at the Shetland
Isles, and part goes into the Ger-
-man ocean, the other part
passing by the Hebrides again
divides of the North of Ireland

One body stretching towards the
Scotch Coast the rest passing to
the West coast of Ireland, Lough
Swilly is the first place to the West
-ward where they are found, few or
none in Lough Foyle, and only at
the streight between the Mull of
Can

42

(38)

April 1808
Cantyre [Kintyre] do they begin again to ap-
-pear on the Irish coast, after this
compression of their ranks they ap-
-pear indiscriminately on the
Scotch and Irish coast. So that
the whole space from Lough Swil-
-ly to Tor point is commonly without
Herrings.) Perhaps if the set of the
currents was sufficiently known
this very extraordinary passage of
the herrings might be satisfactori
-ly explained.

27 Ther at 8½ AM. 45. Pleasant warm
day
Saw a Butterfly 1 Swallow

2. Sand Martins

Glechoma hederacea flowering

Found a Black *Dermestes* in the

Greenhouse of which I made a fig

-ure

43

(39)

April 1808

28 Ther at 8½ AM. 45. Pleasant dark
day

29 Pleasant dark

day threatening rain Wind SW

Mispilius canadense Flowering

2 Swallows *Stellari holostea* Fl.

Sent a box of plants to Mr. Mac
-kay and Mr. Underwood

30 Threatening rain

Wind Westerly -

Determined and made a drawing of

Hypnum piliferum E. Bot – 1516 [p 1516 of Eng botany pub 1806 James
Edward Smith]

the figure good of E.B. but the dentition

which appears with a high mag

-nifier on the margin of the leaf

not expressed

Viola tricolor & *Juncus pilosus* Fl.

And *Caltha palustris* flowering

44

(40)

May 1808

1 Ther at 8 AM. 51.

Made a drawing of *Bryum anno-*
-tinum Found in the Moss also

Hypnum cuspidatum.

Made a drawing of *Vorticella*

viridis a very minute animalcule

Found in the drain at the Rushy bog

Montia fontana Fl. & *Chaerophyllum*

sylvestre *Papilio cardaminus* Male

2 Ther at 8 AM. 51. Warm pleasant
day

3 Ther at 8 AM 55. Ther at 2 PM. 65

Narcissus triandrous, *Calathimus*

& *Bulbocodium*, *Pyrus præcox*

Ixia Bulbocodium,

Papilio Urtica Swallows plenty

Rail calling & Martins building

45

(41)

May 1808

4 Ther at 8 AM. 55 Gentle Rain

Cuckoo calling

Made a drawing of *Coccinella 14 punctata*

Found by Miss Jane Tennent

Put out *Arbutus Andrachne*

Prospectus for the Belfast

Monthly Magazine

Written by John Hancock

On the first of September 1808 It is in

-tended to publish- The first Number

of the Belfast Monthly Magazine.

To be published on the first day of

each succeeding Month price 1s-8

In offering a New periodical work to the

patronage of the public it will reason

-ably be expected that some claims

will be advanced in its support....

Of promises we shall be sparing,

as we are desirous to be judged ra-

-ther by our performance, than

by our professions... yet we shall

briefly

46

(42)

briefly state the fare which we de

-sign to present to the Public.

From the arrangements we are ma-

-king, we trust we shall be able to

lay before our readers a large por-
-tion of Original Communica-
-tions, in which the tastes of the
several classes of readers will be
consulted... When at any time we
borrow from other periodical pub-
-lications, we shall candidly ac-
-knowledge the sources whence
we extract, and thus avoid the mea-
-ness of borrowing without making
an acknowledgement.

The Political department will
give an historical review of the
state of Politics; accompanied with
official documents, and other au-
-thentic illustrations of the subject

....

47

(43)

May 1808

....Our aim will be to give a dis-
-passionate view of the passing e-
-vents of this important crisis...

We shall endeavour to inform and
instruct but by no means to inflame
or lull into apathy.... An impar

-tial relation of of Irish occurren-
-ces will form a prominent por-
-tion of this department.

We are promised a series of essays
on the highly important subjects
of manners and morals, which
without offending existing preju-
-dices, we trust will be found to
promote general utility.

Classical dissertations will occa-
-sionally be found in our pages,
though as being less interesting to
the

48

(44)

May 1808

the bulk of our readers, they may be
inserted more sparingly

....It is our wish to furnish the pub-
-lic rather with wholesome, substan-
-tial fare, than curious delicacies.

We hope, however, to offer an accep-
-table desert of fruit, now and then,
in the poetical departments;
but; considering that the poetry may
be reckoned a luxury, and think-

-ing that it does not admit of
mediocrity, we wish to be sparing
in the quantity and choice in
the quality.

We shall endeavour to procure
some original criticisms on new
publications, though from our
local situation it cannot be
expected that we shall regularly
in every number, furnish such

an

49

(45)

an article... Our attention will
be particularly turned to publica-
-tions of peculiar interest to Ireland
or in which Irish authors shall
be especially concerned.

On subjects of Agriculture, as a
matter of prime importance, in
the present state of the country, we
earnestly solicit communications
from the intelligent.... In each
number we design to give a com-
-mercial and agricultural re-
-port, particularly adapted to

Ireland, but occasionally taking
in a wider scope, and also, a
Naturalists and Meteorological
Report.

It is obvious from our local
provincial situation, we
shall have many difficulties

to

50

(45)

to encounter, but we rely for support,
especially on the extensive popula-
tion of Ulster; and if we can fur-
-nish a work, interesting to the
Merchant, the Manufacturer, the
Farmer, and the Mechanic, as
well as to the Man of Letters, and
our Female readers, we trust our
appeal to their liberality will
not be in vain.

The work will be printed and
published by Smith and Lyons
115 High Street to whom com-
-munications free of Postage
are to be sent.

Belfast April 1808

On which I made the follow
ing alterations not however
produced to the public

51

(47)

At the present period when Know-
-ledge has diffused its light from the
Pallace to the Cottage, and Philoso-
-phy established on true principles
no longer wanders amidst the
wilds of conjecture. When a warm
desire for literary information
pervades all ranks of Society, we
are induced with the view of
gratifying the prevailing desire
to undertake a New Periodical
Publication to be entitled the
Belfast Monthly Magazine.
From the arrangements we are
making we trust we shall be
able to lay before our Readers
a large portion of Original com-
-munications, in which the tastes
of the several readers will be

con-

52

(48)

consulted, When at any time we
borrow from other publications we
shall candidly acknowledge the
sources whence we extract.

We are promised a series of essays
on the highly important subject
of Manners and Morals, wherein
the Censor will endeavour to con-
-duct with a gentle hand his
youthful friends along the paths
of virtue.

Classical dissertations will fre-
-quently be found on our pages
and we hope occasionally some
poetry which will not only gra-
-tify the lover of Natural des-
-cription but please the critic.

We shall endeavour to procure
some original criticisms on New
or interesting publications, though
from

53

(49)

from our local situation it cannot
be expected that we shall regularly

in every Number furnish such an article. Our attention will be particularly turned to publications which more immediately relate to Ireland or in which Irish authors shall be especially concerned.

Considering Science and Literature as the true friends of toleration bound by no exclusive rights, System of Monopoly, Sect or party Our political department will Give an historical view of the state of Politics, accompanied with Official documents and other authentic illustrations of the Subject. Our aim will be

to

54

(50)

to give a dispassionate view of passing events. We shall endeavour to inform, but by no means to inflame.

In each Number we design to give a Commercial & Agricultu-

-ral Report particularly adap-
-ted to Ireland but occasionally
taking in a wider scope, and al-
-so a Naturalists and Meteoro-
-logists.

Communications on every sub-
-ject connected with Philosophy
Literature and the Arts will
be thankfully received, but ever
attentive to whatever can con-
-tribute to the welfare of our
Country, none will be more
acceptable than those which

relate

55

(51)

relate to improvements in A-
-griculture and the Arts.

5 Ther at 8 AM. 55 Gentle Showers

Prunus spinosa and *Prunus do-*
-mestica Fl.

Hirundo Apus saw one at

the Linen hall

6 Ther at 8 AM. 54 Gentle Rain

Vaccinium Myrtillus, *Saxifraga*

Hypnoides, Fl. Gooseberries and Furze

in full Flow-

7 Ther at 8 AM. 48. Wet day

8 Ther at 8 AM. 49 Brilliant day,

Wind South

Viola palustris, Rhodora canadensis.

Orchis mascula, Fragaria

vesca Stellaria uliginosa Fl-

Whitethroat came

56

(52)

May 1808

General Remarks on the Peninsula of
the Crimea.

The seasons in this country, and upon
the whole, very unequal. I have known
a winter, that of 1795-6, when,
so early as the 6th of February, all the
spring flowers were everywhere
seen in full bloom, such as the *Vi-*
-ola odorata, Tussilago, Crocus, Col-
-chicum vernalis, Hyacinthus ra-
-cemosus, several kinds of *Ornitho-*
-galum, Cyclamen, Arabis alpina,
and *Fumaria*. During the remainder
of that month, they were buried un-
der a deep snow, though not a sin

-gle day was marked by severe frost.

On the other hand the rigorous winter of 1798-9 and of 1799-1800, continued from the end of October till April, with various degrees of cold, accompanied by violent hurricanes from the North, so as frequently to cause the Mercury to sink 18 degrees

be-

57

(53)

May 1808

below the freezing point; which was likewise the lowest state of the thermometer in 1787. In the last of these winters, the frost was so intensive, during the most boisterous North winds, that not only the whole sea of Azof, together with the Bosphorus, but also great part of the Bay of Kaffa and several creeks of the Black Sea were covered with Ice, sufficiently strong to support the weight of persons crossing both on foot and on horseback. Such inclement winters, as well as copious falls of Snow, are not very common; and the latter seldom remains on the ground

throughout the season. The winds are very variable, and bring rain from the West and Southwest; mild air and frequently mists from the south, serene dry weather from the east; and cold from the North.- Besides the Barometer is subject to sudden changes, and the Climate is so unsettled that

58

(54)

May 1808
that it often varies six or eight times in 24 hours. Fine weather however and heavy storms, which last are but too common generally, follow or precede the Changes of the Moon. The summers in the Crimea are also very irregular. Too frequently droughts prevail for several successive years, even from the beginning of Spring; so that the wells and brooks are dried up; and it is no uncommon thing to see the thermometer stand, in the shade at 29, 30, or even 31 degrees of Reaumur. On the same day, however it often falls

10 or 12 degrees, and there is generally a current of air, which moderates the heat, especially in the Mountainous vallies, that are exposed towards the sea and along the banks of rivers. - Cool and rainy summers are uncommon though they occasionally happen after severe winters.

Pallas Travels through the Southern provinces of the Russian Empire
Vol II. p 376.

59

(55)

From the Same

The most common sort of Fish occurring here, is the mullet, or *Mugil Cephalus*, which swims in large shoals along the whole shore of the Black sea, as far as the Canal of Constantinople; and from the roe of which Bortargo is prepared. Fish of different ages advance in distinct shoals; a fact, which has also been observed in the Bosphorus, and in some parts of the sea of Azof

The above-mentioned observation is not peculiar to the *Mugil Cephalus* I believe few people conversant with fish have not made the same observation, Roach, Perch &c are seldom caught of different sizes at the same time, and few people but must have observed the uniformity in the size of

60

(56)

May 1808
of Herring caught out of the same Shoal, very often the large and the small shoals haunt different places so that Skilful fishermen know where to find them —————
Today I heard from Mr. Dunlop Junr. - a remarkable instance of the sagacity of Foxes A pair of Male and female confined in the Yard of Mr Gillet keeper of the Belfast hotel, had observed through the day 7 ducks in the yard which excited their particular attention when the ducks approached them

they couched in hopes the ducks
would be induced to approach
then while they remained qui-
-etly observing their every motion,
Night however came and the Ducks
retired to rest. The Male Fox then

cutting

61

(57)

May 1808

cutting with his teeth the leather strap
about the neck of the female and which
fastened her to the chain, let her loose
to catch the ducks which she soon
accomplished bringing 3 to the
male and keeping the other four to
herself as appeared when they were
discovered

9

Pleasant day

with a gentle shower but mostly
brilliant.

Erysimum alliaria Fl.

Pied bird came

Went to see the two foxes mentioned
in page 56 found them the a Cur Fox
the female familiar with a young

man which she allowed to lift her
in his arms and carress.

The difference between this kind
and the Greyhound Fox strikes at
first

62

(58)

May 1808

first sight in the shape and length
of the legs, and perhaps in the col-
-our but as these were dirty I could
not be so sure of that. the shape of
the head however was what I thought
the most remarkable character, the
nose was small but the seemed flat-
-ted from the forehead rising more
There haunts. Mr John Sinclair re-
-marks are mostly different this spe-
-cies is found commonly about the
coast inhabiting rocky ground, the
greyhound Fox generally inland
burrowing in a Sandy soil

10 Ther at 8 AM. 49 - Showery Morning
and through the day

Lathræa squamaria, & Orobustulorosus

& *Philolobus crystillina* on Grafting Clay.

Grafted Plum give me by Mr H. Bell

Apple grafts by Mr Bradford & 2 *Daphne*

collina

63

(59)

May 1808

collina

Turned out *Gladiolus Cardinalis* a

plant of this has survived several

winter growing at the side of the

greenhouse wall at the NW end

Planted *Punica granatum* on the

mount at the pond, *Fuschia cocci-*

-nea in the den at the Pond, also

Vaccinium stamineum & one re-

-ceived from Mr. Whitley

Saw at Mr John Russels a tame Buzzard

brought from Ld. Dufferins woods now 1 year old

11 Ther at 8 AM. 53. Showers

Geum rivale Fl.

12 Ther. at 8 AM. 55½

Geranium lucidum, *Ranunculus*

auricomus & *Saxifraga Granulata*

Fl.

13 Ther at 9 AM. 57 Showers

Swifts come

14 Ther at 9 AM. 58½ Showers
Troillius europæus *T. asiaticus*
& *Kalmia glauca* Fl. & *Menyan-*
-thes trifoliata. Grasshopper Lark
Singing in the Evening

64

(60)

May 1808

The Reformed Sexual System of
Linnaeus. By Robt. Thornton MD

Classes

- 1 Monandria
- 2 Diandria
- 3 Triandria
- 4 Tetrandria
- 5 Pentandria
- 6 Hexandria
- 7 Heptandria
- 8 Octandria
- 9 Enneandria
- 10 Decandria
- 11 Dodecandria
- 12 Polyandria
- 13 Cryptogamia

Orders

Orders taken from the number of pistil

-la

- 1 Monogynia
- 2 Digynia
- 3 Trigynia

65

(61)

May 1808

- 4 Tetragynia
- 5 Pentagynia
- 6 Hexagynia
- 7 Heptagynia
- 8 Octogynia
- 9 Enneagynia
- 10 Decagynia
- 11 Dodecagynia
- 12 Polygynia

Orders taken from some curious

particularity in the Stamina

- 13 Didynamia, 4 Stamina long, 2 short
- 14 Tetrodynamia, 6 Sta., 4 long, 2 short.
- 15 Teosandria 20 or more Sta, inserted
on the Calyx or corolla
- 16 Monodelphia filaments united in
one body.
- 17 Diadelphia filaments united, for-
-ming 2 bodies

18 Polyadelphia, filaments united
forming 3 or more
bodies

19 Syngenesia, 5 anthers united
20

66

(62)

May 1808

20 Gynandria Stamina arising from
the pistil

21 Monœcia Stamina apart from
the pistil on the same
plant.

22 Dicecia Stamina apart from
the pistal on different
plants.

23 Polygamia, bisexual flowers and
unisexual.

Class Cryptogamia as the natu-
ral Orders

1 Filices, 2 Musci, 3 Algae 4. Fungi

Remarks

1 The Class 4 Tetrandria being a nume-
-rous one, Linnæus chose to separate
it into two, and an opportunity
presented itself from the considera-

-tion of the differences, which oc-
-cur in plants having 4 Stamina,
from the proportion of these. Di-
-dynamia expresses the difference,
and the flowers are either ringent or
per-

67

(63)

May 1808

personate, a Natural tribe. But as
all the ringent flowers are not inclu-
-ded in the Class Didynamia,
some coming under Cl.2. Diandria
there can be no good reason for
not making this real division of a
Class into an Order. The System
hence becomes more easy and regu-
-lar, and in fact, frequently more
Natural.

2 The Class 6. Hexandria, also rea-
-dily separates into two parts, from
the like consideration of the propor-
-tion in the Stamina, and Tetra-
-dynamia contains the Natural
-tribe of Cruciform plants.

3 The Class 13 Polyandria also rea-

-dily divides into two parts from
the consideration of the insertion
of the Stamina; and one of these,
the Icosandria of Linnæus posses

-ses

68

(64)

May 1808

ses many edible fruits; but as it is
not altogether a natural Class,
therefore, no one can regret seeing
this part distinguished as an or-
-der.

4. In the Monodelphia of Linnæus
many of the numerical names,
which had been used to characterize
the classes, are employed to distin-
-guish the orders or subdivisions,
as Pentandria, Decandria etc. and
hence arises a confusion unavoi-
-dably perplexing to the young stu-
-dent, and which our method, as
is evident completely removes

The same observation applies
to the classes Diadelphia, Poly-
-adelphia, Gynandria, Monœ-

-cia, Diœcia where the same (may I call it so) impropriety occurs. This class in Linnæus is not natural, but, being made into

69

(65)

May 1808

into orders, many of them became natural as orders, as the Colum-niferœ.

5. The Papilionaceous Flowers, as they are generally termed, from the Order Decandria in the Class Diadelphia of Linnæus; but the author, unwilling, as it would seem, to make any breach in so natural an assemblage of Plants, has so far deviated from the principles of his System, as to refer to that Class several Genera which strictly belong to the preceding class, being in fact Monodelphious. This inconvenience is entirely obviated in the present scheme, where Monodelphia and Dia-

-delphia constitute two successive orders in our Class 10 Decandria

6

70

(66)

May 1808

6. Polyadelphia is a small, and as D. Smith observes “rather unnatural class”. Most persons are shocked to see Citrus, the Orange, in this Class, and not in the Icosandria

Class; for Linnæus described it of the Class 18 Polyadelphia Order 3

Icosandria. Now in our reformed sexual System it comes under Class

13. Polyandria order Icosandria in juxta position with other edible fruits, in the subdivision Polyadelphia.

7. Class 5 Pentandria; a numerous class, is subdivided by Syngenesia, and so formed into two classes by Linnæus, the latter of which, however, as containing an order Monogamia, is not therefore altogether a na-

-tural Class. We obviate this
by making Syngenesia an order,
and

71

(67)

May 1808
and the subdivision Polygamia
to contain the natural tribe of
compound flowers; whilst, under
another subdivision, Monoga-
-mia, many plants not having
Compound flowers arrange them-
-selves.

8. Against Gynandria, which
Dr Smith calls “an odd and Mis-
-cellaneous class” there lies the
same objection, as we observed a-
-bove as against the class Dia-
-delphia, the numerical names
of Classes being applied to orders.
In our scheme, Class 2 Diandria
has and order Gynandria which
contains the natural tribe of Or-
-chiser, and these the mind is
delighted to see a natural as-
-semblage embraced in an Order,

if

72

(68)

May 1808

if not in a class. The separation of the remainder cannot be regretted, as not possessing amongst each other the smallest affinity.

9. Monœcia is a miscellaneous class, and borrows the names of its secondary divisions from most of the other Classes, as Monandria Diandria etc may even from Monadelphia, Syngenesia and Gynandria; for all these become, in Linnæus Sexual System, orders. In our scheme Class Triandria, order Monœcia, contains mostly grasses: hence we retain this natural assemblage in the same Class at least if not in the same order.

10. Diœcia The same remarks may apply here as in Monœcia

11 Polygamia subdivides the

Clas-

(69)

May 1808

Classes Monœcia and Dioœcia; the-

-refore in the logic of Science it is

in reality an order

Envy is at rest when the body is laid in

the Silent tomb.

And then only is a Mans merits truly es-

-timated.

Tillock Phil. Mag XXX 253

- 15 Ther at 9 AM. 58½. Pleasant dry
day

*Veronica Chamædrys, Scilla nu-**-tans, Arenaria trinerva Arum**maculatum, Lysimachia ne-**-morum Fl.*

- 16 Ther at 8½ AM. 54½. Pleasant
dry day

- 17 Ther at 8 AM. 51 Pleasant dry
day

Spartium Scoparium Fl.

- 18 Ther at 8 AM. 51. Pleasant warm
day

*Sedum latifolium Scilla companu-**-lata Flow -*

May 1808

On Instinct

Did not experience teaches us how far
the Spirit of System has sometimes
led the greatest of men, we might
be induced to believe, that they
were not serious in this specu-
-lations, or that they had never
attended to the habits and man-
-ners of animals.

No individual possessed of the com-
-mon understanding, can hesi-
-tate to believe, that animals
are conscious of their sensations,
and are determined in their ac-
-tions, by present pleasure or pain;
but it must be also admitted, that
they possess a strong memory, that
they form by repeated experience,
general judgements, founded on
analogy; and that they after-
-wards

May 1808

-wards conduct themselves accor-
-ding to the pleasure or pain
felt in consequence of these deci-
-sions and often in opposition to
the attraction of present pleasure
or pain; and, lastly, that this
principal, well directed, may be
employed by man in their edu-
-cation, and may sometimes lead
animals to the habit of perform-
-ing, with admirable precision,
actions not only in themselves
extremely difficult, but to which
their conformation does not seem
adapted. None of these Philosophers
doubt that animals have various
ways of expressing their wants and
their passions, and that those of
the superior orders whose organiza-
-tion

76

(72)

May 1808

-tion approaches to that of the
human species, are capable of

learning the signification of many
of our words, and obey our orders,
without committing any mistakes.
But independently of these facul-
-ties which in some respects resem-
-ble ours, and which vary in a
considerable degree in the dif-
-ferent classes of animals, natu-
-ralists conceive they have dis-
-covered in certain species other
faculties, which appear to be
essentially different, and to
which they have given the name
of instinct. — There are certain
actions essential to the preserva-
-tion of the species, but which are
often entirely foreign to the ap-
-parent

77

(73)

May 1808

-parent wants of the individual;
they are often also so very compli-
-cated, that were we to attribute
them to intelligence it would pre-
-suppose a degree of foresight

and knowledge, and which no one has yet ventured to ascribe to these species. Such actions can -not be attributed to a princi- -ple of imitation, since it should seem that the individuals, who perform them, had no opportu- -nity of acquiring such know- -ledge, and yet that those of the same species uniformly prac- -tice them nearly in the same manner: lastly, what appears not less remarkable is, that

actions

78 [copy blurred, repeated as 80]

79 [repeat of 77 (73)]

80

(74)

May 1808

actions, which have no reference whatever to the degree of ordinary intelligence, and which become more singular, more acute, and more disinterested, in proportion as the animals, which performed them, belong to Classes less ele-

-vated and more stupid. Thus
it is among the insects, the
Molluscæ, and the worms, that
we observe the most astonishing
instincts; hence it should seem,
that instinct and intelligence,
are two distinct faculties in-
-tended to compensate the want
of each other, as in some respects,
fecundity supplies the place
of strength or longevity, it is
ever by the just proportion of in-
-telligence

81

(75)

May 1808
-telligence, instinct, and physi-
-cal qualities, such as the delica-
-cy of the senses, or the strength of
the body, that the species are
preserved.
Naturalists have, therefore sup-
-posed that animals endowed
with instinct exert these parti-
-cular actions, in consequence of
an internal impulse, wholly

independent of experience, foresight, education, and external agents, or in other terms, that organization alone determines them to act in that peculiar manner. This conclusion has been adopted by most observers who merely differ in explaining in

ex-

82

(76)

May 1808

explaining the mode, in which organization imparts this determination

M. Dupont. See Cuviers report of the transactions of the National Institute

Monthly Mag. Vol. 24. p 487

90 Ther at 9 AM. 53. Brilliant day
Statice armeria, Papaver Cambri-
-cum. & Arenaria ciliata flow

Little Flowers on the *Nymphaea alba* blown in the pond

20 Ther. at 9 AM. 57. Brilliant day
Azalea Pontica Flow.

Black May Fly. plenty.

- 21 Ther. at 9 AM 60. Dark day with
a Gentle shower

White *Lilac* & *Sedum thymifoliar*

Fl. *Veronica montana* in Flower

- 22 Ther at 9 AM. 59. Cloudy with a trifling
Shower

Fly Honeysuckle

83

83

(77)

May 1808

On Confining Birds

The Species of Songbird least objection-
-able to the practice of confinement,
at least in this country, is perhaps
the Canary Bird, in consequence of
its never having enjoyed freedom,
added to its incapacity of sustain-
-ing life under the rigour of our
climate: but even this bird, who
was never initiated into the plea-
-sures of Liberty, and the unres-
-trained enjoyment of air; whene-
-ver allowed, merely to fly about

and enjoy the expanse of a room,
evinces his gratification in every
attitude. He preens his plum-
-age, that plumage that seems
to dictate to him his birthright
to

84

(78)

May 1808
to Liberty; he flirts about in lively
expressions of pleasure, and in un-
-bounded vivacity, in this limited
indulgence of that aerial power
with which nature endowed him,
but which man has denied him the
enjoyment of, for his own personal
gratification.

That the feeling and sentiment of birds
by whatever name we may designate
them, are tender and sympathetic,
their conjugal and parental conduct
amply testifies.

I well remember that when a
Schoolboy, there was not one among
us without his bird. There were two
Male Linnets, who preserved during

their lives, which were protracted
for some years, the most inviolable
at-

85

(79)

May 1808
attachment and friendship. These
Linnets were named Robert and Hen-
-ry; they had not been brought up
together, nor did they belong to the
same person. It was early obser-
-ved that whenever one of the birds
sang, the other bird joined it; and
at night, each slept on that side of
the cage next its friend's. At length
their attachment was more fully
ascertained by this accident. It
was customary to allow the birds
to fly about the chamber in
which they were kept, on clean-
-ing their cages. On one of these
occasions, one of these linnets be-
-ing at Liberty, flew to the cage
of the other; and they were after
-wards

86

(80)

May 1808

wards, now and then, indulged with the privilege of being together in one cage, when they uniformly expressed their high gratification by fluttering towards each other, joining their bills together, and alternately gently picking the tongue of their friend.

At length it was agreed to allow one of these birds to fly abroad in the open-air, whilst the other was placed out in its cage. I have known the friend left at liberty to mix for some hours with the wild Linnets, for this was on a heath or common near the schoolhouse, and regularly to return in the evening to his vacated cage placed near his confined friend. This indulgence of the common was conferred alter-

-nately

87

(81)

May 1808

-nately on Robert and Henry and

with the same undeviating attachment. They never were allowed this liberty together; and probably had it been suffered they would not have returned; for each seemed to enjoy the company of the wild linnets, but so indelible was there mutual attachment, that they preferred imprisonment together, rather than separation.

One of these friends at length died, and the other pined away and soon followed his deceased friend - ad sedes illuc negat ridere quemquam.

Yours etc

J.C. Lettsom

Sambrook Court March 10, 1808

Monthly Mag. 25 Vol. p. 220.

88

(82)

May 1808

23 Ther at 9 AM. 53. Rain during the night. Pleasant day

24 Ther at 8 AM. 51 Rain in the night Pleasant dry warm day

Statice armeria flowering at the point

Fields – *Plantago coronopus*

25 Ther at 9 AM. 51. Rainy Morning

Gentle rain several times through
the day.

Some Flowers blown on *Rhododendron*

Ponticum & Azalea nudiflora

Made Figures of *Ulva defractor*

U. fistuloso

Conferva ornata

——— *dubia*

——— *Flabellifera*

Found on the shore at the point

fields yesterday.

26 Ther at 8 AM. 51. Wet morning

Rain through most of the day

Pedicularis sylvatica Flow

89

(83)

May 1808

27 Ther at 8 AM. 50½ Wet morning

Wet most of the day

Berberis vulgaris Spiraea Chamædry

-folia, Laburnum & Pæonia pere-

-grina flow. Hawthorn, and Pearleaved

Hawthorne.

- 28 Ther, at 8 AM. 53. Rain and thun-
-der at a distance
Aesculus Hippocastanum Rhodo
-dendron ferugineum Spiræa
hypericifolia Sorbus aucuparia
Veronica Beccabunga
- 29 Ther, at 9 AM. 54. Heavy thun-
-der like Showers
- 30 Ther at 8½ 58. Brilliant morn-
-ing and day
Iris siberica Flowering

90

(84)

June 1808

- 1 Ther, at 8½ AM. 54. Brilliant
Morning and day
Triantalis europæa Double Cinnamon
Rose Flowering
- 2 Ther at 8 AM. 54 Rain in the
Morning
Trifolium procumbens, Lotus
corniculatus, Geum urbanum
Double Pœony, *Rosa alpina*
Flow
- 3 Ther at 8 AM. 55 Some rain
Pleasant dark day

4 Ther at 8½ AM. 58½ Brilliant
morning
Halesia tetraptera, *Rosa pendula*
Potentilla anserina, *Pæonia cor-*
-rallina Flow.

5 Ther at 8½ AM. 49. Rain part
of the day
Staphylea pinnata Flow
Transferred *Auricularia Phosphorea*
to the *Confervæ* see Dillwyns British
Confervæ plate 88

and

91

(85)

June 1808
and Sowerbys *Sphæria Betulinæ* to
Opegrapha epipasta En. Bot. 1828

6 Ther. at 9 AM. 53 - Pleasant dark
dry day
Rhinanthus Crista Galli, *Orchis la-*
tifolia, *Orchis maculata*, *Carex pen-*
-dula, *C. strigosa* Fl.

Found *Carex pendula* & *strigosa* by the
side of a little rivulet running from
Mr John McCances into Bonnick
moss. Found in the Bog meadows a *Caltha*

agreeing in part with *Caltha radicans* Lin

Tran Voll. 8. p 324

7 Ther, at 9 AM. 56. Some showers

Lilium bulbiferum & *Iris sambucina*

squalens Fl.

Made a drawing of *Conferva punctalis* found
yesterday at Bonnicks moss

8 Ther at 9 AM. 54 Dark dry day

Made a drawing of *Conferva glomerata*

& *C. amphibia cæspitosa*

92

(86)

June 1808

9 Ther, at 8 AM. 54 Pleasant dark day

In the evening became clear

Herring common in the Market

10 Ther at 9 AM. 58 Brilliant morning

Kalmia angustifolia & *Menzeisia*

Dabæcia Flowering

Received a plant of *Lithospermum*

arvense found by Dr. Tennent in

a Field of Vetches at the end of the

Long pass at Cromack.

11 Ther Brilliant day

Cistus Helianthemum roseum Fl.

the pale lemon colored has been in Flow

-er 5 or 6 days *Iris versicolor* Fl.
Made a drawing of a hedge hog caught
on the 7 it was today become so fa-
-miliar that it lapped milk on the
table beside me while I was painting
its picture, the extraordinary form
of its nostrils, seemingly having a
movable lap distinct from the ori-
-fice is a peculiarity I believe not
seen in other Quadrupeds

93

(87)

June 1808

12 Ther at 8½ AM. 57. Brilliant
Morning

Lychnis Flos Cuculi F

Today I observed that the Hedgehog
had a short tail covered with black
skin on which was a thin covering
of Black hair. the action of eating
is performed somewhat like a pig
but rather more in the lapping way
as all animals whose mouths open
far behind the extremity of the
snout are obliged to do, in order to
lift the liquid without immersing

the nose.

13 Ther at 8½ AM. 62. At 2 PM. 67.

darkish dry day

Lonicera grata Fl. *Lathyrus pra-*
-tensis F

Examined a Willow found at the side
of the Rivulet running from Mr John
McCances towards Bonnick Moss
on the 6th. it seems a variety of *Salix*
aquatica E. Bot.1437. the leaves were
more

94

(88)

June 1808

obovate or ovali ventricosa see plate 8
of Annals of Bot. Vol. 2 fig 31. than the
figure in En. Bot. glaucus underneath
but not perceptibly hairy to the na-
-ked eye, pleasant light green above
stipulæ very small semicordate only
towards the extremity of the shoots.
shoots of the season white green or tin-
-ged with red finally pubescent.

A Hypnum on the stones in the wa-
-ter is *Hypnum riparium*

14 Ther at 8½ AM 56½ Rainy morn

-ing.

Satyrium viride Fl.

Whether *Salix oliefolia* be really a

distinct species from *S. ci-*

-nerea or not I think somewhat

doubtful, but the darker brighter

green, and longer shaped leaves

distinguish them at a distance

In the hedge on the left side of the

road going from Cromack to the new

Lagan bridge and several bushes which

agree

95

(89)

June 1808

agree pretty exactly with the descrip

-tion and figure of En Bot. 1402.

In a Garden hedge on the Belfast side

of Cromack left side of the road I found

yesterday what I take for *Salix Forbi-*

-ana E. Bot 1344. but in the figure the

serrations do not seem so acute and de-

-flected upwards as in my specimen

15 Ther at 9 AM. 56½ Slight showers

Rosa hibernica in full flower not one

Flower appearing on any of the other

Native species. *Hieracium Pilosella*,

Mespilus pyracantha, *Rosa alba*

Flowering & *Rosa spinosissima*

16 Ther at 8 AM. 51. Slight shower in
the morning.

17 Ther. at 8 AM 59. Slight shower

Azalea Glauca & *Floribunda* F

Stellaria graminea *Bunium Bul*

-bocastanum Flow.

Went to see a Grebes nest at Lysters

pond, it had yolk coloured eggs about the

size of a thrushes but longer shaped

96

(90)

June 1808

18 Dry warm day

after wind at night

Hypochæris radicata Fl.

Vicia cracca Fl.

19 Ther at 9AM. 66½ at 3 PM. 70

dark warm day.

Vicia cracca

Lillium Pomponium red & yellow

Epilobium angustifolium Papa-

-ver *orientalis* & *Euphrasia officinalis*

Fl

Wheat Shooting

Blackbird, Wren, Cuckoo, Rail

singing

- 20 Ther, at 9 AM. 65 Dark sultry
day with a slight misty shower
about 12

Papaver dubium Fl *Anthericum*

- *ramosum*

- 21 Ther at 9 AM. 69. Dark sultry
day

Epilobium villosum

Made a drawing of *Conferva multicapsularis*

Dill Bri. *Confervæ* No. 71

- 22 Ther at 9 AM. 68 At 3 PM. 71

Digitalis purpurea *Carex palescens*

Flower *Carex pseudocyperus* coming

from among the leaves *Rosa canina*

flowering & *Rubus corylifolius*

97

(91)

June 1808

- 23 Ther at 9 AM 57 dry day some
bright sunshine

Sambucus nigra *Spiraea salicifolia*

common Fl.

- 24 Ther at 8½ AM. 59. Dry warm day

Rosa tomentosa Red and White. *R.*

arvensis *R. glauca*, *Hypericum*

humifusum.

Observed *Vorticella polypina* on a
Conferva found in the Lagan opposite
the first lock where the water is salt
every tide.

Also *Conferva genuflexa* in an old
Brick hole at Strandmillis

25 Ther at 9 AM. 64½. Sunny day

Robinia hispida flow

Made a drawing of *Conferva aculeata*

26 Ther at 9 AM. 65. Brilliant day

27 Ther at 9 AM. 66. Brilliant day

Spiraea salicifolia alba F

Ther at 3 PM. 73 -

98

(92)

June 1808

28 Ther at 9 AM. 66. Brilliant day

Second sowing of Wheat shooting
third in the shot blade

29 Very Warm

Brilliant day. Rd J. Dubourdiu re-
-lates that in an Island in a small Lake called
Lough Aghery, SE of Lisburn about 3 or

4 Miles, Herons (*Ardea cinerea*) contrary to their usual custom had bred on the ground, but about the year 1803 a parcel of Black headed Gulls (*Larus ridibundis*) drove off the herons and have continued to breed there since, And the Reverend John Dubourdieu is of opinion that the Moths of the cut worm (from his Description the *Phalena humili*) have diminished as he sees the Gulls in the Meadow before his house pursuing like Swallows and catching the Moths even until 11 o'clock at night and at a considerable distance he can hear snap of the Gull when it seizes a Moth (at this time

99

(93)

June 1808
the Gulls may see the Moths as the nights are so light as to appear twilight throughout.)

30

Brilliant very

warm day.

Saw in possession of Mr Henry Bell a specimen off *Phalangium cancroi-des* Dun. 6. 215 which he caught in

the Lapping room

100

(94)

July 1808

1 Ther at 9 AM. 69 at 11 AM 76 at
3 PM. 77. Brilliant day

2 Ther at 9 AM. 63 at 11 AM. 71 at
2 PM. 72. Some cloud

Oats shooting in the Oak tree field

Lonicera Periclymenum Carex interme-
dia, First sown Wheat, *Robinia pseu-*
-do Acacia Fl. & *Ligustrum vulgare*

Found in a Marshy field on the South
side of Strandmillis dam *Agrostis ca-*
-nina, *Carex fulva* E. Bot 1295 and
Carex intermedia in the Marshy
hedge.

3 Ther at 9 AM. 62. Somewhat clou
-dy but no rain

Centaurea nigra, *Scabiosa* & *Jacia*
Hypericum pulchrum & *hirsutum*
Erica tetralix & *cinerea* Fl.

Made a figure of *Conferva atra* E. Bot
690 Dill Bri. Con. 11. Found growing
on rotting sticks in the drain at the
Rushy Bog yesterday.

(95)

July 1808

4 Ther at 9 AM. 62, at 3 PM. 61

Showers

Made a figure of *Phalona Psi* DunBrit In. 133 Found on the wall of the
house yesterdayMade a figure of a New *Fucus* found
in the Lagan among *Conferva flexu-*
-osa June 24, 1808Also of a *Rivularia* found at in
a drain in the Bog meadows along
with *Conferva atra* July 2 - per
-haps if not young plant of *R. confer*
-voides it may prove *R. pisiformis*
of Roth - Annals of Bot - I. 261

5 Ther at 8 AM. 60 Dark dry day

Saw a specimen of *Phalæna Betu**-laria* Dun Bri. In. 237 caught by

Mr Wm. Tennant at Mount Vernon

6 Ther at 9 AM. 61 Rain apparent

-ly to the South dark dry day here

Made figures of *Monoculs pulex*

M. quadricornis Hydrachna marked



thus on the back red, Found in the drain
at the Rushy bog. also *Sirex* black with
white bands on the abdomen.

Patella Lacustris on the *Sparganium*
and *Potamogeton* in the drain at
the rushes bog. I observed that a
little after this it had descended a-
-gain to the bottom last year.

7 Ther at 8 AM. 63. Gentle rain in
the Evening
Found in the Saltmarsh near Knock
Nagunny hill going to Hollywood
C. Down

Carex extensia

-----*distans*

Samolus valerandi } In Fl

Anagallis tenella }

8 Ther at 9 AM. 62 - Dark dry day

(97)

July 1808

9 Ther at 9 AM. 60. Dark dry day

Examined a *Fucus* found on the
Shore near Conswater on the 7th
Found it to resemble *Fucus dassyphyl-*
-lus very much but at the same time
it was very like *F. Kaliformis*.

10 Ther at 9 AM. 64 at 3 PM. 67 Dark
dry day.

11 Fine day went on a Journey to
Larne
Hyoscyamus niger almost out of
Flower, on the road side about 1
mile from Carrickfergus
Sinapis niger common about Car-
-rick

12 Fine day
Left Larne for Glenarm I went
by Sallagh Brays
Arenaria verna every place on the
rocks
Saxifraga hypnoides On the Cairn

at

July 1808

at the top

Geranium Lucidum on Sallagh

Brays

Agrostis pumila on the pastures

Epilobium angustifolium on the

Rocks

Prumis Padis among the Rocks

of Limestone near the

Northern end

Lichen saccatus Same place

-----*apthosus* on the Moss in

many places

-----*hydatopus* Ach. Pre 129

On stones among water

which flows from under

the Limestone Rocks

Observed a remarkable Whin dyke

at the Northern termination of Sal-

-lagh Braes and might suppose

it a continuation of the one at

the Cave hill running in the

same direction Viz due North

105

(99)

July 1808

13 Fine warm day

Triticum Caliacea On the sandy

Ground on the shore

side near Carnallock

or long bay

Salsola Kali On the sands

Rosa tormentosa With a very large

Flower among the

Limestone Rock of the

North side of Glenarm

Bay

14 Very warm dry day

Prunus Padus } common in Gle

Elapatorium } -narm Great park

canabinum }

Carex palescens }

Galium Boreale Rocks at the

River

Quercus sessiliflora Appears to

have been the only

106

(100)

July 1808

kind of Oak which grew in the

Park.

Apparently 2 kinds of *Betula* in

the Park and other places about

Glenarm but whether one is *Betula*

populifolia I cannot positively say

Saw several of *Papilio Aglaja* Don Th. 602

in the park

15 Very warm dry day rain in

the afternoon.

Pyrus aria Common on the Rocks

of the little deer park

Conferva purpurea in a Cave at the head

-land

Fucus clavillosus with both sorts of Fruct

ification common about Glen

arm

-----*viridis*, common

-----*esculentus* common. The stipes

eaten by the People

-----*vesiculosus* gathered and scalded

for the food of Pigs

Ulva palmata Common

Rivularia vermiculata, Common

Scandix Pecten Common in Corn

107

(101)

July 1808

16 Heavy rain and thunder during

the forenoon

Melampyrum sylvaticum on the
Road side, right side
descending the hill com
ing towards Larne -

Schœnus rufus on the Shore North
of Ballygally head.

Fucus coronopifolius Found on the
Shore about a Mile N -
of Carn Castle

-----*punctatus* About the same

Ulva laciniata About the same &
also at Glenarm

-----*Spongiosa* In pools at the
black Cave

17 Very warm dry day

Papilio edusa Don. Bri. In. VII. pl.
238 fig 2. & Vol.II. pl.43. fig.1.

Among the Furze and weed at the
side of Larne River

Sphinx Filipendula Don pl.6

About the Grassy banks over tinka[?]

108

(102)

July 1808

near Larne in considerable Number

Ulva like *U. intestinalis* in Fruct

tification of Fl[obscured] in the sea.

- 18 Fine day but the sky with cathair
clouds from which a Man in the
Isle of Magee prognosticated wind
or rain in the night following

Rhaphanus maritimus E. Bot 1643

About the Current of Larne near

Mr. McNeils Saltworks

Fucus pinnatifidus 13. *osmunda*

Tur. Syn.Fuc. 268

On the shores of the Isle of Magee

-----*Lorcus angustifolius* on the

rock near Browns bay

Conferva rubra, with innate granules

-----*setacea*

Dill. Bri. Con 82 E. Bot

1689.

Both the last on the shore of

the Isle of magee

Fucus laceratus a singular dark coloured

variety.

Shore near Larne

Fucus

109

(103)

July 1808

Fucus mamillosus a from ½ to ¾ of an

inch broad

On the shore of the Isle of Ma-

-gee

----- alatus B. Gemelin 25.3.

On the shore of the Isle of Ma-

-gee

coccinous In fructification

same place

110

(104)

July 1808

19 Very heavy rain all day from
about 10 AM.

On our way home by the Moun-
-tain road observed some very large
thorns (*Mespilis Oxycantha*)
about 2 or 3 miles from Carrickfer-
-gus in a very high and exposed
situation.

20 Heavy rain all the forepart of
the day

21 Heavy rain during the most part
of the day

Spiræa tormentosa Flowering

Alcea rosea Flowering

22 Heavy Shower about 4 PM.

Gladiolus Cardinalis Curt mag 135

Which has been out growing at the
foot of the Western wall of the Green
-house for 4 or 5 years in full Flower
Some flowers were blown on my return
from Larne

111

(105)

July 1808

23 Ther at 9 AM. 64. Cloudy and sunny
dry

Limetree in Flower

24 Ther at 9 AM. 64 Wet forenoon
Made a drawing of *Conferva setacea*
which I doubt is confounded with
[blank]

25 Ther at 8 AM. 63. A Slight Shower

26 Ther, at 9 AM. 66 at 2 PM. 70 slight
Showers

White Lily, Orange Lily In Full Fl.

Butomus umbellatus Flowering

Made drawings of two *Confervæ*
found in the pools at Glenarm
on the sea Rocks

Suppose 93 *sericea* & 94 *C Borreri* E. Bot

1741

27 Ther at 9 AM. 64. at 3 PM. 72.

Showers going about

Made

112

(106)

July 1808

made drawings of *Conferva digitata*

See Fig 95 - also of Two Moths

see *Phalæna conica & Racuta*.

28 Ther at 8 AM. 63. Dry warm

day Wind Northerly.

People about Glenarm say the

whale of which the bones are

preserved at Glenarm Castle

was driven in about 17 or 18 years

ago that it was full 70 feet Long

and had Whale bone on its jaws

the one caught near Larne was

a young one of the same species

On my mentioning it to Mr John Bar

-clay that no Sea birds built on the

rock at Glenarm and some other

places along the shore which I

thought fitted them, he mention

-ed

113

July 1808

-ed the reason was that the water
did not flow in to the foot of the
rocks at all times, this remark
I recollected to be in all cases well
founded.

29 Ther at 8 AM. 63 some showers
with dark clouds. and sunshine
Artium Lapper & Ballota nigra
Fl.

30 Ther at 8 AM. 66. at 3 PM 72
Showers Cloudy and sunshine
Observed that the Mildew has made
considerable progress on the
Wheat and also an other Fungus
Red rust, (*Kecidium triticum* see
my figure of this) on the leaves
Flax very much spoiled with
firing

114

July 1808

31 Ther at 8½ AM. 63. at 3 PM. 71
Showers
Made a drawing of the Red rust

of Flare, and also of the firing see
the Figures.

The warm moist weather which
has prevailed for the last half
of July has I apprehend great
-ly injured the wheat and Flax
crop the Wheat in the highway
field sown in the spring seems
completely destroyed by the
Mildew

The other day I observed 4 birds
in Mr. Curtis dam near Dunmurry
apparently Grebes, nearly the size
of the common Waterhen, dark
coloured with the fore part of the
neck and breast White. From the
view I got of them they appeared the
Dusky Grebe of Pennant

115

(109)

August 1808

1 Ther at 8 AM. 65. Rain in the fore
-noon

Quail calling, White throat, & Com
Wren yet singing

2 Ther at 9 AM. 63 Dry cool day

Cloudy Wind almost North

3 Ther at 9 AM. 62. Ther 66 at 3 PM

rain in the Evening

Scilla autumnalis Phlox pani

-culata.

Emberiza Citrinella singing

Caught that rare Insect *Papilio*

Cardin Dun. In 292 in the Far

Plane saw one first in the Spring

Field

Made a figure of a *Jungermania*

found underwater in a Rivulet

among the Mountains going from

Larne to Glenarm July 12, 1808

4 Ther at 8 AM. 64 Rain during
the night and mostly through the
day

Ceanothus americanus Fl.

116

(110)

August 1808

5 Ther at 8½ AM. 66. dry breezy morning

Ther at 3 PM. 70. Pleasant dry day

6 Ther at 8 AM. 64. Rain during the
night - Ther, at 3 PM. 71

A Willow Wren singing

Saw several of the *Papilio Cardin*
in the Plane, Spring Field &c
Merulius androsaceus & rotula Com-
-mon in the Alder grove and Planta
-tion *Inula Helenium* Fl.

- 7 Ther at 8½ AM. 63. Gentle showers
8 Ther at 8½ AM. 58. at 3 AM. 70
Rain during the greatest part of
the day
9 Ther at 8 AM. 60 Breezy dry day
10 Ther at 8 AM. 59. Pleasant dark dry
day - Carnation now decorates
the Florists parterre.

117

(111)

August 1808

- 11 Ther at 9 AM. 63. Pleasant clear
day
Aconitum uncinatum, Silphium
purfoliatum & Rudbeckia lacini
-atum Flowering.
12 Ther at 9 AM. 64. Rain at night
Hypericum prolificum Flowering
On examining the Lichens found du-
-ring my Journey to Glenarm they ap-
-pear to be the following

<i>Colluna fluviatile</i>	<i>C. hydaterpum</i> Ach
<i>Parmelia aquila</i>	2 Varieties
<i>Lichen impressus</i>	Dick. 4.23
<i>excavator</i>	
<i>carnosus</i>	E.Bot 1684
<i>digitalus</i>	Ach.188
<i>aphosus</i>	Ach.161
<i>saccatus</i>	Ach.165. E.Bot 288
<i>purcatus</i>	

118

(112)

August 1808

- 13 Ther at 9. AM. 64. A shower in the middle of the day rest breezy and pleasant

Papilio Atalanta

Made a drawing of *Jungermania*

decurrens

Found among Bratamia [?] gathered at

Sallagh Braes. July 12

- 14 Ther at 9 AM. 62 Heavy showers throughout the day & Sunshine
- 15 Ther at 9 AM. 59 Heavy showers and Sunshine
- 16 Ther at 8 AM. 66 Showers with Sunshine

Euphrasia Odontites Flow and
and *Lilium superbum*

17 Set off for Newry in order to meet
Dr. Stokes and Mr Mackay
who came from Dublin in
order