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Text in square brackets may indicate the following:

- Misspellings, with the correct spelling in square brackets preceded by an asterisk rendersveu*[rendezvous]
- Tags for types of content [newspaper cutting]
- Spelled out abbreviations or short form words F[ield[. Nat[uralists]
- Words that cannot be transcribed [?]

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Book No 20

June 12 to Sep[tember] 28 1890

T.J. & J. SMITH'S METALLIC BOOKS, Prepared on the finest hard-sized paper, possessing a smooth ivory surface, pleasant to write upon, and when written with the accompanying Pencil, perfectly indelible. Ruled to any pattern. Made in every variety of sizes. -----
STAMP ACT INFORMATION. ----- Unstamped Drafts on Bankers, must not be circulated beyond fifteen miles of the place where made payable. Adhesive Stamps, denoting the Duty of One Penny may be used for Receipts or Drafts, with- out regard to their special appropriation. Letters acknowledging the receipt of Cash or Bills subject to the Penny Stamp Duty. Duties on Bills, drawn out of the United King- dom, can be represented by Adhesive Stamps. Holders of Bills, drawn out of the United Kingdom, to affix an Adhesive

Stamp thereon before negotiating them. Persons liable to a penalty for negotiating Foreign Bills of Exchange without a Stamp; also for neglecting to cancel such Stamp. CONTACT NOTE - Any note, memorandum, or writing, commonly called "a contract note," or by whatever name the same may be designated, for or relating to the sale or purchase of any stock or marketable security of the value of £5 or upwards ... 0 0 1 RECEIPT or DISCHARGE given for or upon the payment of Money amounting to Two Pounds or upwards, - ONE PENNY [left margin] Ld 1/1 [right margin] 1890 - June 12 to Sep[tember] 28 [1]

Bank Note- For money not exceeding ... £1 0 0 5 Exceeds £1 and not exceeds 2...0 0 10 " 2 " 5...0 1 3 " 5 " 10...0 1 9 " 10 " 20...0 2 0 " 20 " 30...0 3 0 " 30 " 50...0 5 0 " 50 " 100...0 8 6 Bill of Exchange payable on demand...0 0 1 Bill of Exchange of any other kind whatsoever (except a Bank Note) and Promissory Note of any kind whatsoever (except a Bank Note)-- drawn or expressed to be payable or actually paid or endorsed, or in any manner negotiated in the United Kingdom, where the amount or value of the money for which the Bill or Note is drawn or made does not exceed... £5...0 0 1 Exceeds £5 and does not exceed £10...0 0 2 " 10 " 25...0 0 3 " 25 " 50...0 0 6 " 50 " 75...0 0 9 " 75 " 100...0 1 0 " 100 for every £100, and also for any fractional part of £100, of such amount or value ... 0 1 0 Award in England or Ireland, and AWARD or DECREET ARBITRAL in Scotland, where the amount or value of the matter, in dispute does not exceed ... £5...0 0 3 Exceeding £5 and not exceeding 10...0 0 6 " 10 " 20...0 1 0 " 20 " 30...0 1 6 " 30 " 40...0 2 0 " 40 " 50...0 2 6 " 50 " 100...0 5 0 " 100 " 200...0 10 0 " 200 " 500...0 15 0 " 500 " 750...1 0 0 " 750 " 1000...1 5 0 and where it exceeds £1000, and in any other case not above provided for .1 15 0 [right margin] Book No. 20 [2]

1890 20 June 12, Had a walk with W[illia]m before breakfast€»[reference mark] got coeruleocephala larvae &[and] Mr Holroyd brought me 3 from Boston &[and] some others unknown. €»[reference mark] past Hall Parks down Rudgate &[and] home by the Wighill R[oa]d. After tea Rose &[and] Self went to Boston &[and] got many coeruleocephala larvae, called on Mrs Hatfield &[and] arranged to [3]

go to dinner on Monday 13. Prepared 7 Coeruleoceph[ala] larvae took map of Yorkshire to College. At night went with the rest of them at home by train to Newton Kyme &[and] walked nearly to Tad[caster] Spent some time on the way but did not get anything. 14 Left Leeds at 12.10 with Gurnell &[and] Carter for Horbury via Dewsbury [4]

June Y[orkshire] N[aturalists'] U[nion] excursion. Found nest of Garden Warbler 4 eggs - &[and] of Hedge Acc[entor] 7 eggs. Alraxas*[Abraxas] ulmata very plentiful Hazel eaten bare

by geometers for further particulars see report in Naturalist returned to Dewbury meeting - thence to Leeds Walton at 8.10. 15 In morning went <?> [shorthand symbol] to St Helen's Ford &[and] had a swim. Saw [4A]

a S[parrow] Hawk chase a Plover for some time they both rose to a considerable height but the Lapwing escaped. In afternoon A Hartley came over Mr &[and] Mrs W[aite] had gone <over> to Bilton After tea Drew Plan of Leeds 16 Fred Hartley brought down the TM,[male] picta dead, it had been ill for some time. [4B]

Commenced to make a small cabinet for larva &c[et cetera], The Keeper brought me some Beetle larvae. they were processioning out of a Rabbit burrow Went from the Station to Thorp Arch Hall had tea &[and] then operated upon a Jackdaw after which had dinner &[and] wasted the rest of the evening in chattering [5]

Met Mr <Hartley> Harpley Curate. Got coeruleocep[hala] larvae near the station. 17 Received 1/3 excess of fare to Driffield. Proceeded with the Larvae cabinet wrote a/c [accounts] &[and] minutes of the Dewsbury Meeting had a stroll at night I found 3 Yellow B[unting] nests 2 with 4 eggs each &[and] 1 with 4 birds found several more [6]

June Coeruleocep[hala] larvae 18. Nearly finished the larvae cabinet, at night had another turn at the B[ritish].A[ssociation for the Advancement of Science]. Maps &[and] visited the 3 yellow Buntings Nests and found them as before Took reports of Y[orkshire].N[aturalists'].U[nion]. Meetings to printers Sent Gold Pheasant to Loten to mount. The Keeper sent me an old Hedgehog [female] [7]

&[and] three young they were suckling - blind &[and] had no teeth 19 Loten called at the Museum, at night R &[and] Self walked to Bilton &[and] back, Ernest caught a black Pepper Moth &[and] gave it to me 20. The Misses Gypson at Walton from Healaugh we accompanied them as far as Wighill. developed photos for [8]

June Gurnell 21. Received &[and] corrected proofs of Dewsbury meeting The Major &[and] Belle came to spend the day, after tea walked to Jackdraw Crag &[and] home by Boston found more C[oeeruleo]cephala larvae Saw the Major &[and] his 2 daughters off at 9.49. Some of the Aurifluas turning up 22. After breakfast went to hedge where I had [9]

found the 2 Oak Eggars found 2 more a large Var callune &[and] a Smaller ordinary also 1 C[oeeruleo]cephala the sun was blazing hot &[and] when I took the larvae tin out of my

pocket I could scarcely hold it, the [coeruleo]cephala was roasted to death the Eggars wriggling with the neat they soon came round when turned on to the ground [10]

June Met Bland, Hatfield's Keeper &[and] chatted to him for some time &[and] then Harland came up also After dinner went to Walton Wood to get the Tree Sparrow's nest &[and] found as I expected the young had flown Took nest for Museum found another large (Var Callune) Eggar. Went to Church (Walton) Mr Dodds of Boston Officiated [10A]

After tried to catch some Pipistrelles with Insect net &[and] struck 2 with the rim. 23. Preserved 2 Quercus larvae the large one formed on Bryony &[and] the Var Callune found yesterday. Received the plan of Leeds not being satisfied with the previous one. Wrote to Cheetham Hardcastle &[and] Wilkins re[garding] Excursion [10B]

June. Miall asked me for M[anu]S[cript]S of Leeds Buildings went to Headingley but could not get into our house. Mr &[and] Miss Hartley being at Bridlington but return tomorrow Had another turn at the bats &[and] struck one knocking the moth out of its mouth it was a ghost 24. Found most of the Polychloros larvae at the Museum ichneumonid [11]

the larvae crawled out &[and] appeared like Diptera larvae in a few hours they shortened &[and] turned brown being then I suppose, pupae, One of my Promethers came out a TM,[male], At night I did some more map work &[and] one of Blanshard's men brought me a young Bl[ack]. Headed Gull - which he had caught [12]

June on their Duck pond it was alive but a wing was broken 25 Went to Headingley &[and] got the required M[anu]S[cript]S. Wrote note of Bl[ac]k H[eaded] Gull to appear in the July Naturalist. At night heard that some boys had got 5 young Landrails I made inquiries &[and] got 2 dead ones &[and] saw a third just hatched [13]

covered with Black down, but spoilt. At 10.35 as I was going to bed the house was roused by a noticeable shock of earthquake it lasted about 5 seconds. 26 Found that part of the Kitchen range had been shaken loose. Went out before break- fast with Harland &[and] got a nice Pheasant's nest with 6 addled [14]

June Eggs, the Keeper gave me some more eggs &[and] a clutch of 9 partridges newly laid the bird had been taken by a fox, with respect to the Part[ridge]'s nest I found on containing both Part[ridge]'s &[and] Pheas[an]t['s] eggs - he told me that a Pheasant made the nest &[and] laid 4 eggs a partridge made a nest a few yards away but in an exposed [15]

place so the Keeper kicked it to pieces & the Pheasant having been taken by a fox & the Partridge being ready to lay, did so in the Pheasant's nest & sat all the eggs. At night went to see Bland Hatfield's Keeper & gave him reprint of My Woodpeckers. Went round to take Rabbits out of trap. he showed [16]

June me how to kill them in "a crack", Saw Kingfisher & Stockdove he told me of a Great Spot: Woodpecker's nest containing young but known of at the Hall - Sent note of seismic shock to "Mercury". A second promethea (a female) came out tonight. 27. Left Leeds at 3.45 with Roebuck for Leyburn via Harrowgate Thirsk & [17]

Northallerton arriving at met by Mr. Horne put up at the Golden Lion & after tea Mr. Horne took us to his Museum & workshop & we ferreted out what information we could regarding Swaledale for the Yorkshire Naturalists' Union. excursion in August, this being the object of our visit 28 Rose at 4.20 & walked to Middleham [18]

June left cards at Morton's & Longbothams no one being up back to Leyburn. inspected Mr Horne's Geological specimens had breakfast & left at 8.36 for Askrigg by train, Started about 9-30 & walked over the moors uphill to Oxnop Beck over to the Fleak 1807 feet. Saw Dunlin & Curlew, Rained in torrents. Macks' wet through [19]

wet heather & boggy ground struck Crackpot Road over Summer Lodge. Moor Crossed the Swale at Isles Bridge & along North side to Strands, changed everything had dinner rechanged, our things having been dried & set out. Still in pouring rain, to Isles Bridge called on RV Taylor Vicar & along South side of River to Keld passing [20]

June through Satron, '769 Muker Thwaite & Angram, Had tea at Cat Hole Keld arranged accommodation & at all the houses on our way back taking same road until we got to Ivelet Bridge through Gunnerside where we crossed. The weather cleared up & we passed along the bank to Strands, had supper & to Bed about 11-0. Distances- [21]

Leyburn to Middleham 2 Middleham to Leyburn 2 Askrigg to Isles Bridge hard climb over Moors Isles Bridge to Strands. Strands to Isles Bridge Isles Bridge to Keld Keld to Strand Places &c[et cetera] seen on route. Buckdon Pike, Penny ghyat Great Whernside, Whernside, Baugh Fell Kisdon &c[et cetera] [22]

June 29 Sunday. Up at 6.0 breakfast & at 9 Started off with Roebuck thro[ugh] Summerside. Ivelet, over Ivelet Bridge Struck S[outh]W[est] Where ordnance is Marked 769. up Roulet Gill, on the Muker Common 992. Came on to rain clouds soon left & went down the valley, along Moor top to Lovely Seat (Stags fell) 2216, down west side to summit [23]

level of Buttertub's Pass & then to top of G[rea]t Shunnor Fell 2346. back along crest to Hood Rigg down to bend in Buttertub's Road then past Thwaite thro[ugh] Muker, Satran over the unfinished Gunner side Bridge through Gunnerside to Strand. Distances [24]

June Found dead but warm Red Field Vole in fields [be]'tween Gunnerside & Ivelet, Caught young Lagopus. on escarpment of Lovely Seat, the remainder of the covey went off in grand Style but this one got its foot fast & just got it loose as I covered with my cap, it [25]

joined the Field Vole Saw Golden Plover numerous, & tame- Curlew, & 1 Dunlin Stonechat, Saw Hawk trap set but rusted fast on top of pole ordnance Cairns on top of the 2 mountains M[oun]t[ain]s seen from Lonely Seat. G[rea]t Whernside Buckden Pike, Penny Ghent, Ingleboro[ugh] Whernside Baugh Fell [26]

June Wild Boar Fell, Mickel Fell & perhap Cross Fell Nearer heights. Penhill Beacon, Addleborough Counterside Dodd Fell, Wether Fell, Widdale Fell, Wold Fell, High Seat & Fair Hill & 9 Standards Rigg, Avon Seat & Brownber Ridge behind. Rogans Seat Kisdon below! G[rea]t Pin Seat & Corver. A Most Magnificent [27]

panorama, Roebuck Says it was the finest stretch he had ever seen, perhaps -not excluding that from Ingleboro[ugh] the weather during the afternoon was gloriously fine & we landed at Strand at 6.0 not having tasted anything but water since we left in the morning [28]

June 30. Left Strands at 9-0, through Gunnerside to Ivelet Saw Keeper Cherry by name, over Ivelet Bridge to Muker & then to Thwaite, took the left to Buttertubs Pass. Saw the B[utter]tubs they are perpendicular cavities of varying depth formed of per -pendicular & regular columns of Limestone over Moors to Hardraw [29]

went a little out of our way to see Hard- raw Scar, the Foss dale stream comes over & falls in a column 100 f[ee]t in <height> depth then into Hawes put up at the White Hart

borrowed some dry trousers while our own were drying, & some slippers while we dried our socks, arrived at 3-30 had dinner <?> [30]

June - July A continuous rain came down all day in a steady, heavy style. We looked rather odd in our borrowed garments - R's trousers turned up about a foot & mine about the same too short. After retoggling we left The White Hart at 5.20 & took train home arrived at Headingley about 10.0 slept at [31]

25 North Lane. July 1 The S populi eggs had hatched, some of the larvae were dead. 3 Pototorias came out & Mrs Waite found a Quercus ? larva yesterday but when I saw it today it was in cocoon, 3 Ziczacs have died during my absence. 2. Found many full grown P brassica larvae [32]

July & 1 pupa on Cabbages. Shot Jackdaw at the Cherries. At the Phil[osophical] Council they ruled that in future I should have £2 per year in lieu of Weather Acknowledgements. Shot Pipistrelle, spent nearly the whole evening in a vain attempt to get some. Swifts eggs in the Station Shed the slates are too near the top of the wall. [33]

3 wrote draft programme for Y[orkshire].N[aturalists'].U[nion]. Swaledale Exc[ursion] 4 Preserved several. Dispar, Brassicae and Autiopa larvae. A [female] promethea & <>™, [male] Potatoria came out, wrote Mr Harrison & told him if convenient I would go to Wilstrop with the camera tomorrow, dined at Bowlings today The Station Master at Thorp Arch gave me a [34]

July cracked Swift's egg which had been found on the ground 50 feet below the place where I had tried to get at a nest on the 2nd 5. Left Leeds at 12.8 for Wilstrop found Mr Harrison had gone to York & the rest were in the Hayfield. I had taken the camera but all were too busy to get out the Mare. [35]

Mr H[arrison] gave 5 tree Sparrow's Eggs taken out of a bean stack I found Pied Wagtail's nest with 5 eggs built in ivy against wall- Many Swallows build under the eaves but the nests differ from the Martins in being topless & not being within 2 inches of the spouting - I found 1 in a shed built [36]

July against the wall although several others were built on the rafters in the usual way. took nests of Swallow Martin & the Pied Wagtail for Museum 6 Trotted about the farm doing

nothing in particular 7. Got up early & took 6 negatives of the Prize Mare & foal Left Hammerton at 7.46 - developed the photo[graph]s at Whites & found [37]

them all good, Grassham commenced work at Museum for a month's assistance A [female] promethea came out at night finished the 3 B[ritish]. A[ssociation for the Advancement of Science]. Maps. 8. Had dinner with Birch & tea at Headingley No 42. Left by 8.10 train Nicholson gave me a young Lapwing caught at Pateley. 9. TM, [male] T Promethea, came [38]

July out, the Keeper sent me a young Waterhen 10. Harland's Son & Ernest caught me 2 young Landrails alive, gave the former 2/- and arrived to go out with Harland tomorrow took Lion's Claw to Barraclough to be mounted as a brooch. 11. On going from Thorp Station to Walton I found a bat lying on the road [39]

either whiskered or Natterer's (Reddish Grey.) Went out with the Keeper to Walton Wood but did nothing. I had picked out some of my best larvae to draw & unfortunately left them in the train Commenced L Quercus to draw. €»[reference mark] 12 Sent Mr Harrison Photo of his horse Skinned Bat made it out to be Reddish Grey. (*Vespertilis nattereri*). Finished the €»[reference mark] next page [40]

July - L Quercus before breakfast, at 1.0 Gurnell & a friend Smith came to Museum & we went to Roundhay Park, took 4 photos of the Swans on the lake, a wet day, went back & to Gurnell's house at Hunslet gave him a lesson in developement at 9-30 left for Headingley for brooch mounted from Barracloughs paid 7/6. Stayed at 42 North Lane. [41]

€»[reference mark] 11. Took Landrails to Headingley & put them in the aviary. 13 [shorthand symbol] Both the landrails have died. After break - - fast went for a walk with Major Green, Spen Lane Woodside- Kirkstall & cetera]. 14 [shorthand symbol] Gave Grassham the Landrail & he would mount me the other found 1 larva of P[ieris] Rapae on Cabbage & many P[ieris] brassicae on [42]

July Nasturtium & 1 Pieris --- ? on potato, At night walked with Mr W to Wighill & back found 1 larva of L Quercus. 15. drew larva of P. rapae & of L auriflua- Grassham gave me images of A euphosyne taken at Hambleton last year. 2 P. brassicae, 1 of L. auriflua & 2 of L Chrysorhea [female] Polatoria came out. Caught [43]

images of Sambucaria a grossulariata <and> 16 Miall returned the Maps for Alterations & Additions, drew larva of P. brassica 17 In the evening I called on Mr Shires Walton an

old Entomologist Spent noon with Birch Mr Hiley sent me a letter from A Davison Birmingham asking for [44]

July particulars of earthquake to which I replied direct &[and] also to Mr Hiley enclosing photo of Walton Church. 18. Completed Map of Yorkshire &[and] plan of Leeds with Miles Kilometers &c[et cetera]. A TM,[male] T promethea came out. 19 Grassham came with me to Walton at 1.45 After dinner went to Tan Ponds. Saw Kingfishers. Young Cuckoo, caught [45]

Meadow Browns (in g[rea]t abundance). A few Blues &[and] Skippers about Cut some Bullrushes After tea hunted in Orchard got Margaritata Grossulariata & Sambucaria Found Bullfinches nest in Afternoon with 2 eggs probably forsaken - left. Found Several Quercus larvae Grassham shot Spot[ted] Flycatcher with my 410. Fred Hartley brought me a TM,[male] Weasel wh[ich] his father got at Bardsey See 21st. [46]

July 20. In morning went near Tan Ponds &[and] got many Blue &[and] a few Skippers &c[et cetera]. After dinner got some more quercus larvae &[and] found nest of Spot[ted] Flycatcher 4 young in the orchard. Shot Yell[ow] ammer with cat[apul]t 3 Aurifluas came out. After tea took Grassham to Wighill thro[ugh] the Park &[and] home by the road [47]

Supper, took out nets &[and] got pronuba, Sambucata &c[et cetera], Grassham saw a large bat Noctule? 21. The weasel which I got on Saturday was killed at Bardsey by a whip lash, it together with several more (probably a family) was following a rabbit, crossing the road Mounted it today. Gave Roebuck note of V. nattereri for 'Naturalist' [48]

July Grassham made me some setting boards &[and] I ordered Entomological pins from Davis. 22 Had dinner at Bowling &[and] arranged with W[illia]m to go to Knaresb[or]o[ugh] on Sat[urday]. Mr Paul sent me a Snipe. When I got home Mrs W[aite] gave me one of the young spot[ted] Flycat[cher]s which she had found on the ground I went to the nest, it was empty [49]

I soon found another of them, &[and] heard a third but could not find it, I climbed the tree where I thought it was &[and] spent 1½ hours looking for it, I next found another one 100 yards away &[and] noticeing*[noticing] that they were all near the ground I went back to the tree &[and] searched the ground &[and] soon found the missing bird at the [50]

July foot of the very tree I had climbed, they are very young &[and] all opened their mouths for food when I got them. Grassham gave me 12 L auriflua images. Wrote Mr Paul. 23

Mounted Spot[ted] Fly[catcher]s &[and] Skinned Snipe 24 Drew Grossulariata &[and] Brassicae pupae. wrote to Headingley. At night looked for &[and] found [?] [51]

Quercus larvae Our people came on &[and] I went mushrooming with them, Arranged to stay <5> at Walton for another month. letter from Mr Paul 25 Drew. H dispar and P mapi pupae [shorthand notation] Wrote Mr Paul &[and] told him W &[and] Self would go to Knaresb[o]ro[ugh] tomorrow 26. Letter from W saying he could not go to Knaresb[o]ro[ugh] I left Leeds [52]

July at 12.8 for Knaresb[o]ro[ugh] wet afternoon Mr Paul &[and] I went for a walk thro[ugh] Scriven Park &c[et cetera]. 27. Went out after Break- fast with Mr Paul for a stroll, Railway em- bankment, caught a few Butterflies, rain in afternoon, &[and] went out again after tea along Leeds Road, got a few larvae on cabbage. 28 Mr Paul gave me a [53]

Spray distributor to try how it would act for larvae blowing. Left Knaresb[o]ro[ugh] at 8.7 am On the 26 I had received a letter from Sec[retary] Leeds Nat[uralists'] Club asking me if I could take charge of tonight's meetings Had tea with Birch &[and] attended L[eesds].N[aturalists'].C[lub]. Council meeting &[and] then ordinary Club Meeting I exhibited Oven Birds &[and] Edible-nest [54]

July-Aug[ust] Swifts &[and] other foreign birds' nest Bats &c[et cetera]&c[et cetera] Slept at Headingley 29 Letter from Mr Harrison asking me to obtain 2 enlargements from one negative. W. Bland sent me a Linnet too long dead to be of use. [shorthand symbol] Found several P rapae larva on Cabbage. Walton 30 Miall sent me first proof of "Object Lessons from Nature" to read [55]

over. Sent Walker a/c[account] of L[eesds] N[aturalists'] C[lub] proceedings. 31 Sent Dr Smith 12/6 for Prof attendance. Got larvae from Davis-Kent Aug[ust] 1 - Went out at 5am with Wragby &[and] saw several Corn Buntings &[and] large flock of Lapwings - Paid Roebuck £4-15-8 for Y[orkshire]. N[aturalists']. U[nion]. Subscriptions - Grimshaw gave me a Trap Door Spider? &[and] a Blatta both from [56]

Aug[ust] Jamaica in Log Wood 2. After tea took Wragby to Bilton &[and] had tea with Tennants. Father found L Quercus larva Plan of Leeds discarded on a/c[account] of small lettering by B[ritish].A[ssociation for the Advancement of Science]. Committee 3 Went to Service in the School Room -a.m. and after dinner Father Wragly &[and] I walked to Cowthorpe Oak thro[ugh] Moss Cans &[and] then over the Nidd [57]

to Hunsingore saw Kingfisher on the river 4 Bank Holiday - At Museum. Instead of getting off train at Thorp went on to Newton Kyme, Bazaar. Had a chat with Mr Challoner who took over over his house. Showed us his garden &[and] stuffed birds &c[et cetera], Also met Miss Stansfield of Weetwood the went to Headingley at noon [58]

Aug[ust]. Mover in Bazaar for Children's Orphan Fund Wragby &[and] Geneva went straight to Leeds got eggs of P brassica in Mr Challoner's garden 5. Eggs hatched today. 6. Got Gun License. Loten sent me some birds incl Bl[ack]. headed Gull (Summer.) Ring Plover (J[u]v[enile]) & 2 Missel Thrushes. Went out before breakfast &[and] shot [59]

a Rook. Saw Mr Clough who said I might go down in the morning for a rabbit Commenced to write description of larva flower 7 Went down to Hall Parks. fired 3 shots & go 3 Rabbits Saw a young Water Hen Received Enlarged Photos from White he charged me 6/- each Left Leeds at 3.45 for [60]

Aug[ust] Harrogate- Visit show of York's Agricul[ture]. Soc[iety] &[and] called on Fortune Left for Thorp at 7.30 8. Took photo[graph]s of Mare to Armitage to frame 9 Shot young Robin in part Adult plumage. Went to Headingley by 1.5 train &[and] took Rose to Walton at 8.10 to day a [female] &[and] yesterday a TM, [[male] promethea came out. [61]

10. Walton Church in morning rained all day. 11. Replied to a letter from Clarke asking me to send him some Natterer's Bats. 12. After tea took 2 photos of Miss Whitehead &[and] her cow &[and] then walked with Rose thro[ugh] Wighill Park to Healeaugh &[and] called on the Gypsons. They put up the horse &[and] sent a man to drive [62]

Aug[ust] us to Walton. Burgess called at Museum - 13 Received frames from Armitage 6/- each. 14 Went out past the Pond &[and] saw a Stoat 15 Intended to go to Bramham but was pre- vented by the bad weather 16. In afternoon walked to Tadcaster with Rose called on Mrs Johnson had a look round the Cemetery &[and] returned to [63]

Thorp Arch by train 17 Walton Church in morning. St Helen's Well with Rose in Afternoon &[and] after tea Father, Rose Mrs Blanshard &[and] a friend of hers Miss Wood London &[and] Self walked to Jackdaw Crag and home through Boston calling on Mrs Nelson. 18 The cat was eating a Red Field Vole this morning. Miall paid [64]

Aug[ust] the £[pound]2 on a/c[account] of drawings for Cassell's £[pound]1 of which I left for Subscription to B[ritish].A[ssociation for the Advancement of Science]. We all went to Blanshards in the evening. 19 Went out before break- fast &[and] shot a common Bunting. At noon to Headingley &[and] brought down some music &c[et cetera]. Commenced to arrange my sternums &c[et cetera] at the Museum. Saw [65]

Lesser Shrew - Missed Swifts at Thorp Arch Station for first time 20 Called to see Birch at noon, he had just returned from [?]land 21. Went to Hall Parks at night shot a Rabbit &[and] obtained a <Red Field Vole> from a Cat dead but not damaged. In returning met Mr &[and] Mrs Clough &[and] turned back with them. [66]

Aug[ust] Went down to try to get another rabbit but it was almost dark 8.30. In coming away I saw something moving about 20 paces ahead of me, too dark to see my barrels but fired where I thought the object was, the smoke was projected in a patch on the ground &[and] a slight squeak told me that I had "hit" [67]

on touching the creature for it was too dark to determine otherwise I found it to be a hedgehog - dead - Willie came to Walton to day - weighed to day at Wetherby 10st[one]. 5lbs[pounds]. 22 Went to Hall Parks with Willie before break- -fast I shot a rabbit which I gave to Mrs Clough he shot a young swallow with [68]

Aug[ust] the '410. A man at Dewsbury sent a worm with one head &[and] at about ½ its length it bifurcated &[and] formed 2 tails of about equal length. Crossley sent me a Longicorn brought from Jamaica in logwood. Roebuck called &[and] asked me if I would write the Vertebrate note for Malham Ex- [69]

cursion in connection with B[ritish].A[ssociation for the Advancement of Science]. I told him I had never been there When he produced a handbill of a ½ day excursion on the 27th &[and] if I would go I could write the note &[and] include some obser- -vations which he had received from Booth of Bradford.- promised him note on Wilstrop swallows for Naturalist [70]

Aug[ust] Spent the evening at Hall Parks. Willee left by 9-0 train for Knaresb[o]ro[ugh] 23. Wrote Mr Harrison re[garding] Photo[graph]s. Went to Hall Parks in afternoon &[and] got 4 Rabbits spent the evening at Blanshard Received ticket for Con- -versazione of Pharmaceuti- -cal Conference on Sep[tember] 1. Letter from Mr Paul asking me to go to Knaresb[o]ro[ugh] &[and] thence to [71]

Pilmoor with gun on Monday. 24 Father Rose & Self walked to St Helen's Well before dinner. Called at Nelson's in the evening & went to Boston Church with after wh[ich] we (R[ose] & I) had supper with them 25 Left Leeds at 11-0 & was joined at Knaresb[orough] by Mr Paul & Willie on to Pilmoor [72]

having had a little time to wait at Harrogate I called on Fortune & he said he would send me some sternums. At Pilmoor met Mr Gray & went on to his ground all I got was 2 Rabbits & a 52 yards shot at a Sitting Sparrowhawk but altho[ugh] the shot broke the bush all round where it was [73]

sitting the bird flew away. I got some larvae - 3 L rubi Mr Gray got nothing at all. Left Pilmoor at 8.35 for Knaresb[orough] & spent the evening there. 26. Returned to Leeds. Engaged Kear for B[ritish].A[ssociation for the Advancement of Science]. Museum at Town Hall. 27 Left Leeds at 1.5 with Roebuck arrived at Bell Busk at 2.30 [74]

walked to Malham through Airton & Kirby Malham_ then to Malham Cove & saw the Aire coming from out of the rock, Climb- ing up the east side we got on the top & then made for the farm & returning by the place where the Water Sinks we struck the road from Morrison's house to Kirby [75]

Malham where we had tea & left at 8-0 walked on to Bell Busk & got our train at 9-25. Saw Wheatear, Curlew, & some ducks sp? on the Moors. III. The above was written in the Buck Hotel Kirby Malham, where we had tea, after which at 8.0 we started off & went [76]

through Airton & then in the dark lost our way of which we soon became conscious. We trudged on by moon -light & Roebuck said we were going toward Hellifield I saw we were going more to the East on & on & on we went without seeing a house but at last we came across one & found we were [77]

nearing Gargrave we had long Known that we had missed our Excursion train & learned that the next and last was 3.30am from Skipton- we accordingly compassed the 6 miles to Skimpton- & then found that we could get on to Leeds at 2.20 from Keighley so off we started but after we had gone some way [78]

a railway official ran after us & told us that a new train left Skipton for Leeds at 1-0. I was for going forward to Keighley but Roebuck preferred to wait. So we waited from 11-30 to

1-0. In passing Eshton Hall I heard a Barn Owl hooting. I am writing this in Skipton waiting room, we no inspected [79]

the map & made out where we had gone wrong - we did a fine old round - the various distances are Bell Busk to Malham - 5. miles to Tarn & Back 5 Malham to Airton 3.(nearly) to Gargrave 5. Gargrave to Skipton 4. total 22 . Left Skipton at 1-0 arrived in Leeds 1-50 walked to Hendingley [80]

turned in at 2-30. 28. Mr Hartley told me that Lady Morrison had called & wanted to see me. I went on she wanted a photo of her house & another of her drawing room in addition to the one I had taken more than a year ago. Mr Chal- -loner of Newton Kyme brought me a gigantic Puff Ball - 8½lbs[pounds] & [81]

48 inches in greatest circumference, Father took 2 photo[graph]s of it in my charge. 29 Mr Stewart sent me Missel & Song Thrush, Ring Plover, Turnstone & Common Gull. from Westport. took Puff Ball to Birch to be cast wrote note for Vertebrate Section in Excursion programme. A Representative of the Yorks[hire] Post called [82]

& I agreed to supply Meteorological Reports for the Yorkshire Evening Post which makes its appearance on Monday for the first time. Went out before breakfast to Hall Parks. Saw a Kingfisher shot Pied Wagtail J[u]v[enile] & 2 Rabbits Saw Rose off to Leeds by the 7.14 pm train. Mrs W. Sagen. [83]

30. Received larvae from Davis. Wrote Stuart, Challoner and W. Harrison for ferrets for Harland. After dinner we all went to Blanshards & spent the evening. 31. Took Bernard to the Tan ponds, Goose Moor & c[et cetera], got nothing but some peculiar fungi, After dinner walked with Father. Miss Blanshard [84]

Aug[ust] - Sep[tember] - & Miss Wood to Flint Mills- Sep[tember] 1. Got my B[ritish].A[ssociation for the Advancement of Science]. tickets guide Books etc, Took Rose at night to Conversazione of the British Pharmaceutical Conference at Phil[osophical] Hall Slept at Headingley 2 Received intimation of "Old" Blackhouse's death Bought 1 in ordnance map of Malham & Dist[ri]ct 60 old 92.N.W. 2/6. Wrote not of Puff Ball for York[shire] Post & Mercury. [85]

Wrote Backhouse. 3 Had tea with Birch Cast Puff Ball attended Presidents Address at Coliseum then to Head[ingle]y 4 Spent 11 to 2 in Biol[ogical] Sec[ti]on: Saw Cordeaux Hoyle

Newton, Tristram Ward &c[et cetera]&c[et cetera]. After the proceedings went to the Anthrop[ological] Sec[tion]: &[and] heard an adverse criticism on Morris' paper on Doctrine of Hereditism [86]

Sep[tember] Morris was not there went to reception room with Slater, Chadwick &c[et cetera] &[and] then to Phil[osophical] Hall &[and] found Leale &[and] Prof[essor] Flower wanting me. Went to Headingley to dress, To Soiree at 7.30, &[and] Reception by Mayor &[and] Mayoress at Art Gallery. Hewetson asked me to go to his house to supper to meet Prof[essor] Newton, but as I was not likely to see [87]

him again among 1600 people he told me to go on when I liked. Left at 10.0 &[and] found Prof[essor] Newton, alone at Hewetson's house &[and] had an hours chat with him as the hosts did not come in until 11-0, Left after supper &[and] got to Headingley at 1-0 am. Both Flower &[and] Newton to call at the Museum tomorrow [88]

Sep[tember] mounted prints of Puff Ball which White had toned for me. 5. Prof[essor] Newton and Canon Tristram called together &[and] I showed them over the Museum, also Dr Hy Woodwood, on a separate occasion Had tea at Headingley after which went to Leeds by train and attended Lecture in [89]

Coliseum by Poulton on Mimicry. Slept at Headingley. 6. Went to Leeds by 8.23 train with W. Asquith &[and] after ob- -taining the B[ritish].A[ssociation for the Advancement of Science]. paper at the Reception Room as usual, sent photo[graph] of Puff Ball to Mr Challoner, asked Father to write to Mrs Vause re[garding] my spending my holidays at Southampton [90]

Sept[tember] Left Leeds &[and] 11-0 for Thorp Arch via Church Fenton &[and] Tadcaster, When I got to Thorp Arch I found Miss Wood &[and] Miss Blanshard on the platform the former going to Scarbor[ough], Miss Blanshard drove me to Walton. After dinner I spent an hour in the wood near the station and at 2.37 joined Emmet at the Station [91]

to meet a party of the British association only 10 turned up on this party. Emmet was the leader, he took us to Thorp Arch Church &[and] then through Mrs Hatfeild's park I had a word with Randal &[and] his tutor. who were playing cricket. Went to Flint Mills, where I left them, they were [92]

Sep[tember] ferried across the river by the Keeper but I came home by the Walton Road, after supplying the Yorks[shire] Post reporter with particulars Received a letter from Keighley Nat[uralists'] Club asking for a paper. commenced to write "The Sterna of Birds". 7 Church in the morning after dinner paid Mr Blanshard a visit [93]

&[and] went on again after tea. 8. Left Walton for the last time my pass Expiring. Met Scharff at Reception Room he &[and] Roebuck went with me to Anthro- metrical laboratory Where I was measured &[and] tested &[and] supplied with the result in M.M. &c[et cetera] Went to Library &[and] inspected Owen's Comp [94]

Sep[tember] Anatomy for Sterna of Birds, wrote to Sec[retary] Keighley Nat[uralists'] Club &[and] declined invitation. Handed in my applicat[ion] for ticket for the Malham excursion- went to Headingley &[and] had a walk with Rose through the Park as of Old- Mr Harrison took his photo[graph]s away &[and] paid me £[pound]4.50 9. Yates lent me Owens Anatomy from Reference Dep[artmen]t. A.S. Woodward [95]

called &[and] invited me to London in Oct[ober]? "Our People" came to Headingley to day to settle down again - went to soiree at Art Gallery at 8.0. Birchall asked me to go to dinner at his house tomorrow at 7-0. 10 Got my ticket for Malham Excursion 9/- at 7 I went to dinner at Birchall's [96]

Sep[tember] but left at 10.0 Dr Woodward called at Museum left me some pamphlets &[and] invited me to call on him at 80 Kensington 11 Left Leeds at 8.25 with B[ritish].A[ssociation for the Advancement of Science]. &[and] Y[orkshire].N[aturalists'].U[nion]. Excursion to Bell Busk, Carriages were provided for Malham but Massee, Cheesman Bunker, Walkinson &[and] Self walked on 6 miles and inspected signatures of [97]

Oliver Cromwell at Kirkby Malham Church en route. Had lunch at the Buck &[and] set off at 11.30 - Backhouse Cheesman Roebuck Bunker Woodward self &[and] ins walked up Gordale Scar &[and] on to Malham tarn took boats to lower end &[and] in crossing saw Mallard wigeon &[and] L[ittle] grebe. just outside Bell Busk I had seen my first [98]

Sep[tember] 1890 wild goldfinch. On leaving the Tarn we came in to Malham Cove &[and] on to Malham at 4.30 had tea and all started at 6.30 in Wagonettes for Bell-Busk Woodward (A-S) asked me to spend Sunday with him when I go to London at the end of the month. We numbered about 60 had gone &[and] returned by special [99]

train arrived in Leeds about 8.30. see "Nat[uralist]" for fuller account. 12 Miall left for Belgium to day. Framed 2 spare plates of "Familiar Wild Birds". Redshank & Kestrel, Letter from Mr Paul asking me to go to Knaresb[orough] for my holidays, .replied. Commenced drawings of Sterna. 13 Gurnell came up to [100]

Sep[tember] 90 Headingley at 2.45 as we had arranged & we went to 3 Horse Shoes L[eads].N[aturalists'].C[lub]. excursion to Adel. Hummel Taylor Walker & c[et cetera] inspected Adel Church Taylor & Gurnel went back with me to tea & the former invited to me call on him at Guy's 14 Sunday, Did not go out in Morning. After dinner took Rose to [101]

The Reformatory, Mr Twigg lent me Drummond's "Tropical Africa" & gave me "Botanical Names for English Readers" of which he had 2 copies. Stayed to tea. He also gave me 2 C D V's of himself. 15 Took ½ plate negative of Lady Morrison's drawing room, before breakfast. Stop No. 2 30 min[utes]s exposure [102]

Sep[tember] Took metronome to Birch at noon Made drawings of some Sternums, as I had done on the 12th & 13th Commenced to enter up "Holidays & Excursions" & c[et cetera] in my New register. [shorthand symbol] 16 Took photos of Skel[eton]s' of Apteryx & Tinamon with Mr Christie & developed 4 of them at night. Drew Sternums of Apteryx & Strigops, [shorthand notation] [103]

17 Bought doz[en] Thomas's lantern Plates & Print[ing] paper wrote report of Vertebrata Section Malham Ex[cursion] for Naturalist, made lantern slides 1 of Skel[eton] Apteryx & 2 of Tinamon 18 Bought another doz[en] lantern plates & Cleaning Solution, gave the lantern slides to Mr Christie & made 3 of the same for myself 19 Mr C[hristie]. gave me photos [104]

Sep[tember] of himself & 5 photo[graph]s of trees, got handbills of Excursions to Southampton via London & wrote to J. A Reid re[garding] proposed visit took photo[graph]s of Apteryx (Owen's) Stuffed Specimen & made 2 lantern slides of it at night & also 2 of Skeleton, different view to that on 16th 20. My newts, When we went to Walton I had 1 T. cristatus & [105]

several T teniatus Now I have only 3 T teniatis & the 1 T. cristatus, it seems as though T c: had thinned his smaller relatives, on this date I notice that he is floating & cannot

go from the surface & if pushed down at once rises with the part of his back between the bone & hind limbs out of the water [106]

Sep[tember] developed negatives of Lepidodendron & Fossil Fish for Christie, Had a walk [shorthand symbol] to Kirkstall Bramley, Newlay Horsforth nearly to Yeadon & back to Horsforth Station train to Headingley. 21. Called to see Irvine in afternoon and to Headingley Church at night. Wrote to Flower & Sclater for permission to photograph in British [107]

Museum & at Zoo 22 Saw Fortune who called at Museum he promised to lend me his $\frac{1}{4}$ plate camera wrote to Mr Smith. Southampton took photographs to White to be toned & mounted. Wrote Bradford Nat[uralists'] Club to change date of lecture from Nov[ember] 3. My date at LNCL[eesds].N[aturalists'].C[lub]. took Caterpillar Cabinet [108]

Sep[tember] home, Made Lantern Slide of Wenlock lime-stone slab for Christie. wrote to N Beale I had written to A.S. Woodward yesterday 23 Received permission to photograph in Brit[ish] Mus[eum] Received letter from J A Reid & replied. 24 Fortune sent me his Camera I called on Cox who has an old $\frac{1}{4}$ plate to know if [109]

his double backs will fit his Camera, will let me know. Went to Birch after leaving Museum & had 2 stumps drawn. At night I made $\frac{1}{4}$ plate Camera front to take the Ross. Letter from N. Beale. Syllabus from Bradford Nat[uralists'] Club, I changed my date to Oct[ober] 20th 25 Tried camera on Monkey Cat & Rabbit [110]

Sep[tember] Skulls - Sheridan sent me a Greenshank from Achill, & I asked him to look up some sternums for me, Cox lent me 3 double-backs which he saw would fit the camera. Post card from Woodward to say he would keep Oct[ober] 12 open for me letter from Reid & Mrs Smith. At night I [111]

made lantern slides (2) of the skulls I photo[graphe]d this morning Sent 3 Photo[graph]s to Lady Morrison of the interior of her room, Lined sutures of Turtle's Skull for photographing. 26 Took 4 negatives of Turtle's Skull, got Exposure Book Developer & c[et cetera] from White. On receiving my salary £[pound]19-5-0 I paid to [112]

Roebuck £[pound]4-19-8 Y[orkshire].N[aturalists'].U[nion]. Subs[cription] to date. & bought a Mackintosh at Yorkshire Rubber Co[mpany] Briggate for 27/6. Made lantern slides of Turtle. 27 Got my ticket for Southampton via London £[pound]1-2-0 return. Received

permission to photo[graph] in zoo but not for free admission, Telephoned to Hewetson who promised to send me 2 tickets by [113]

post, Sent in my a/c[account] against Brit[ish] Association £[pound]6 for drawing Maps Swallows &[and] Martins still at Headingley. 28. Sunday, - Our people left for London yesterday so I had the place to my self today, packed up my things for my holidays to start from Leeds at 8.50 for London [114]

by Midland per Cook's Excursion to Southampton via London &[and] return same way 22/- 29th in New Note Book No. 21. [115]

[116]

[117]

Nest Making Fish. Stickelback - Bullhead - Lump Sucker (Reucord) Walking Fish _ (filuroid) spawns in Sand on Shore_ Hippocampus.

Book No 20 June 12 to Sep[tember] 28 1890 AMS587/18 [118]