

Easter Sunday April 17

Off by about 8, walking down to Ali's pasture, & there finding a new donkey. He stumbled a good deal, but I got in to Cairo about 10 ½ after one slip down of the beast in the mud caused by street watering; for the gov^t here have arrived at that stage, but stop short of any cleaning or scavenging, hence the water makes it worse than before. Got letter ^{postcard} & paper at post, & am vexed to find that a journal & some letters to be forwarded have all gone astray; I sent them by the most suitable messenger that Ali could find; because such urgent remonstrances had come, when I once did not try this before, when I could not go to post myself. I did not like trusting to any of the natives with what had cost me several hours, & was my only record of some things; & it does not do to be written any more than talked out of one's convictions. I must try & reconstruct the packet if possible, but I have only a note "writing letters" at that date; one was to M^{rs} Benest I know, & I think another to M^r Hall, & what else I do not remember, except a special injunction to send money by P.O.O. instead of Bank. I think I have kept up posting very regularly, considering that I have to give up a whole day & go 17 miles, for every letter I send; it is very different to being able to send it to a neighbouring pillar box. I once tried getting letters by giving an order, but they were never ~~for~~ fetched at all from the office. Even if a messenger is successful one pays far more for sending entrusting a letter to any one going to Cairo than for posting to England. After looking over letter, went to the American Mission. There I found Dr Cuyler

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(252)
 whom we know so well by name, & who took the service; I
 am afraid I did not appreciate this much esteemed preacher,
 but his shouting & prodigious thumping in a smallish & very echoing chapel; his want
 of method, formulation, & argument; his habit of introducing
 long poetical quotations without any warning, so that you
 suddenly awoke to the fact that he was quoting when the rhythm
 caught the ear, & then wondered how far back he began it;
 & the unhappy distribution of his arms; are points to which I
 suppose his American audiences are more inured than I am.
 Dr Grant slipped in about the beginning of the sermon & sat by me,
 & I do not think that he or Mrs G. were at all enraptured. They
 asked me to lunch, & there I saw Mr Wilson again, who is
 staying there: they thanked me much for attending to the party
 yesterday. I had a talk to the Dr on end of entrance passage &c.
 He shewed me Dixons diagram again which I wished to see for some
 discrepancies between me & C.P.S. A patient called & had such
 a long chat that I had to leave without seeing him again, but he
 promised to come out on Wedⁿ or Thurs^d; he suggested a day
 at Tel-el-Yahoudieh, but I said I thought it was too hot; Mrs
 G. backed me up, saying that the Dr was always knocked up with
 that excursion, having to get off his donkey & lie on the ground;
 & he afterwards spoke as an astonishing thing of having to get
 down, & actually vomit owing to congestion from heat of the
 sun. I don't want to have him knocked up on my hands
 again. I left then & posted letters, but unfortunately forgot
 that I had to claim the registered letter of credit; however it is
 all safe, & I must get it next time. On coming out I

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 again. I left then & posted letters, but unfortunately forgot
 that I had to claim the registered letter of credit; however it is
 all safe, <as I received a notification of its awaiting me.>, &
 I must get it next time. On coming out I

found all the oranges gone at the bridge, so filled up with 3 doz cucumbers, averaging $\frac{1}{4}$ lb each, ^{for 7 $\frac{1}{2}$} & ate several on the way. (253)
 Then after supper &c, wrote this & to bed about 11 $\frac{1}{2}$, how the time has gone I don't know. My donkey fell about Gizeh, & so I walked a bit, & then remounted, but he went down again about a mile & a half from here, so I walked in; I must assure my friends that it is not that I am becoming so Ortonian in ^{size} weight, that no beast is up to my weight, for I do not think that I need ^{even} an extra half inch ^{even} in clothing.
Monday 18 April Found that I had a considerable sore throat, so took a long morning in bed. Then up, & looked over a dozen lbs or so of Alexandrian copper of Ali's; ~~more~~ mainly Aurelian, & nothing rare. Then considering about levelling staff to do the level up to entrance with Dr Grant; there are several reasons why our arranged one is unsuitable; mainly because the heights required are a little beyond its length, so I shall screw up a rigid one of arbitrary length, & estimate on 1 inch divisions. Then out to measure tomb, but found I could scarcely do anything, being quite done up with my throat, & a high cool wind blowing: did one tomb, & then looked at the place where the Museum authorities are excavating. They have uncovered a fine but unfinished tomb of which I copied all the inscriptions; it is of Kanofer, his wife Asetka. I shall probably copy & send them with this. It is probably of 4th dynasty, certainly after Δ^2 , & probably after Δ^3 . Then home

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 I had supper. Rewrote journal of March 14-23 from memory; fortunately I had noted each day just a few words on the leaf of a calendar, as I sometimes wanted to refer back to a day after journal had been sent, so this gives just a reminder. Then wrote this & to bed about 11. Temp^r about $\frac{1}{2}^{\circ}$ up.

Tuesday 19 April. Throat still very sore, but it is only a glandular affair on one side high up, & not what usually goes to the chest. Not up early in consequence. Copied inscription fair, & then out in afternoon to note details of walls round Δ^3 of which I had fixed the necessary points before. Then had another look at the tomb I copied yesterday, & noted character of faces. Then home to supper. Throat better somewhat; wrote M^r Loftie, & this, & to bed about 10 $\frac{1}{2}$.

Wednesday 20 April Throat worse, sore all round, fortunately it is high up just at back of mouth, but so red & swollen I can scarcely swallow. At 9 I heard a lurch, & a strange Arab voice said "A master here with letter from Doctor Gran"; so up I jumped, & a strange gentleman handed me a letter which the D^r had sent (recommending cold compress, alum gargle, &c very kindly, though I had purposely not seemed to ask for advice) & introducing M^r Pitcher formerly of Kapunda, whose name I knew immediately. So saying I hoped to see him this afternoon, I went back to bed, & he to Δ . After a while I got up, had as much food as I could manage, & then out;

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I found him & three friends just coming out, have previously
 been to the top. So I shewed him the casing, & told him ⁽²⁵⁵⁾
 about it; & then he started off for Sphinx; about half
 there we overtook one of the party saying he was not going
 down to it & he supposed others would not: (many travellers
 stop short where they come in sight of it, not liking the rough
 ground leading to it) So I said there was something far
 better than Sphinx, & that was the temple; so they went
 on & were much struck & interested in it. They were
 in a hurry to get back to Cairo before the bridge opened
 at 1 o'clock, & I think they would just do it, by the
 time they started back. I went back to tomb, not
 feeling up to anything, & read in a foggy manner all
 the afternoon. Ali brought in a hawk of stone, glazed,
 with cartouche of Amenemhat 3 or 4, of 12th Dynasty; &
 after taking it back to owner, got it for 5 francs. I know
 that Mr Loftie will take it, if I don't keep it. Then wrote this,
 & to bed about 5 1/2, after some eggs & chocolate. It is very
 warm fortunately for me, 76° in tomb, & much more out.
 I cannot make out my cold, I never had such before; &
 Bell. & Merc. make no impression on it. Shekh Ibrahim's
 daughter is to be married to night, so I sent him one box of the
 little Noid tapers (1 lb of 565), as he has always been polite & civil.
 On going to bed found temp 101°.7

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Thursday 21 April

Throat worse, up & had chocolate & an egg at 8; & again got up for chocolate & currant jelly at 3. Temp^r 101.4 in aft. Fortunately there is a hot wind blowing at between 80° & 90°, so getting up & having the door open is no damage. In even feeling very much down altogether.

Friday 22 April

Temp 101.9, so got up, had breakfast <of chocol. & jelly> & sent up Ali with a few lines asking any traveller here who had room in his carriage to let me share it back to Cairo; for I was far too weak to go on donkey. A German speaking excellent English came down to tomb to have a look at me, & said he should be happy to take me; so I put a few things together, expecting that I might have to stop at Dr Grant's when I once got there, the German going to Sphinx meanwhile. Then up to the carriage where was a Frenchman; & by & bye the German came. I sat on a little flap seat back to horses, tho' the German kindly wished me to take his seat; & he lent me his umbrella which was good for sun & wind. It was blowing a gale, but southerly & hot as before, so I could bear it. The harness broke down twice, but we got in at last; & the German would not let me pay anything for my share, saying they had engaged the man for several days; he was most kind altogether. Dr G. was out when I got there about 11., so I rested, being rather

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side from riding backward, just after a lot of chocolate in a
 roasting hot sun. When he came in to dinner, he saw me &
 said it was Pharyngitis, with the consoling remark "I have ²⁵⁷
 seen throats as bad as that". Certainly I never had such, it
 seems like infection almost; furious inflammation of
 the velum & uvula specially, & all down to the Pomum,
 but not a trace of mischief in the wind passages, below or
 above; the glands all over the neck sore & swollen; &
 quite unable to swallow any hot but liquid, & even that
 with difficulty owing to the uvula catching, being double
 its right length & as big as my little finger. Dr. G. sent me
 to bed at once, & at 3.0 I was 103°.7; he gave me
 Pilocarpine Muriat., Muriat. acid, & Nepenthe, with
 Glycerin & water. I took the liberty of halving his dose, &
 diluting it; & by the evening I was down to 100°.3. I felt
 more satisfied in going to Dr. G. as I had seen a well
 worn copy of Ruddock on his table; & he professes
 himself an Eclectic, so one can say what one likes as
 to treatment. It is very convenient to know a doctor
 who professes has a "Sanatorium", as one can throw oneself
 on his care, without a feeling of trespassing on him.
 The ordinary servants-work is done by Arab men who
 scarcely know a word of English, but for personal waiting
 there is a capital neat quiet little German maid, who

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 there is a capital neat quiet little German maid, who

speaks fair English, as well as Arabic: she is a superior little body being Mrs Grant's housekeeper & general manager. & got letters & papers.

Saturday 23 April 99.0 in morn; staid in bed all day, getting better, but up to 101.4 at night. ^{The Pilocarpium keeps me} in a chronic perspiration.

Sunday 24 April 99.4 in morn. In aft the little German suggested my turning up for bed making, which I capped by asking for a warm bath; this was much against her prejudices, but she yielded with that truly feminine curl in the corner of her mouth, which said "If people will have their own way, they must take the consequences". I was all the better for it, & then Dr approved when he came in in the evening. He gave me a gargle today of Chlorate Potash, with Bromide Pot. Glycerin & Barley water. The bromide palliating the soreness, & the chlorate for the ulceration. 101.6 in even.

Monday 25 April 99.6. Got up after breakfast, & in afternoon Mr Wilson ^{staying at Dr Grant's} (who came out to Δ with the ladies a week ago) came in for a brief chat, & brought me Seiss's "Stone Miracle" i.e. Δ in an American dress.

It is as well written as an average American who knows nothing of mathematics could do it, but it is Piazian throughout. 100.2 in aftn, & in evening also.

Tuesday 26 April 98.6. Up all day, reading Palmer's Sinai. Mr Wilson looked in to say goodbye, he leaving

speaks fair English, as well as Arabic: she is a superior little body being Mrs Grant's housekeeper & general manager.

<Got letters & paper's.>

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for Alexandria this evening. I dropped the Pilocarpine ²⁵⁹ down
 on with gargle alone. 99.4 in aftⁿ & even^s. & M^r Melville
 an artist soon going to stay at Δ, came in even; & I had some talk &
 asked him to come to Ali's tomb next to mine & chum.
 Wednesday 27 April 97.9 Out in morn, getting the Registered
 letter at last, for which personal application with passport
 or witnesses is necessary, so I could not do it before.
 Also drew £10: thus finishing my 1st letter of credit. The
 2nd letter is not on the same bank here. Reading Palmer.
 In aft out to tomb of Khalif's. 99.1 in even.
 Thursday 28 April 98.8 Reading Tristram's Sahara
 all day, very tired from yesterday. 98.8 in even.
 Friday 29 April 98.6. Reading Pepy's diary. Dr
 G. having to go to Roda island, drove me down with
 him close to Nilometer, & a servant of the house
 shewed me to it. There was about 5 cubits in the
 water & 7 cub. out; I see that I could scarcely do anythg
 more accurate than has been done in measuring
 without ladders or even scaffolding, & the style of the
 work does not seem very accurate, & it is all
 Arabic; so I ~~can~~ do not expect to go again to it.
 I saw a large lot of stratified rubbish heaps which
 I must examine for the pottery, as they are apparently
 undisturbed, though cut through to by the road. In the
 afternoon I asked Dr G. to let me copy the cartouches of
 his scarabs, & he kindly turned me into his museum
 to copy all I wished; I noted over 200, all that seemed

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 on with gargle alone. 99.4 in aftⁿ & even^s. <A M^r Melville
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Thursday 28 April

<98.8> Reading Tristram's Sahara
 all day, very tired from yesterday. <The D^r put me on pills today
 "formula 210" to reduce swelling.> 98.8 in even.

Friday 29th April

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likely to be King's names. In evening 98.2. Miss Mulock came in evening, & had a chat over her ²⁶⁰ ~~A~~ reminiscences; also a gentleman who is treasurer of the English church; it seems Dr G. used to be treasurer & sec^y also (though Presbt^m), but resigned tres^r about a year ago & is still sec^y.

Saturday 30 April 97.9. Throat sufficiently well for me to go back; so after breakfast I put things in my bag, & went down to settle with the Dr. Mr Wilson had told me that the regular rate is 16/- per day, including medical attendance; which is very ~~low~~ ^{moderate}, as no good hotel is under that rate here, & nursing & doctoring all go in it. However I found that the Dr. would take nothing whatever, told me I was his guest, & that he never thought of my paying; as I saw that he was firm on it, I dropped it, telling him he must give me a list of books he wants; for a few days ago he had been saying that he expected soon to have certain Egyptian books as a friend whom he had cured of polypus (& from whom he took no fee) had was going to send him certain books he wanted; so the example just came in apropos. When we come out again (or before) we must get two or three things which will be acceptable I think, & will ask him definitely about books before I leave. Then bidding good bye to Mrs Grant (whom I also thanked much for all their great kindness) & Miss Schultz, I went off. Did sundry shopping, leaving a lot of things to be fetched by Muhammed

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tomorrow. Then took donkey for 3 francs out here. Got
 to tomb by 1 $\frac{3}{4}$. Went & hunted up Ali, he fetched some
 water, & soon I had dinner. Then writing up this
 journal, for the last 10 days; & out to see certain inscrip-
 tions lately cleared by Museum people; while strolling till they
 went off for the day, I picked up a bit of Greek pot with
 two letters incised; & a bit of fine Egyptian pot with 6 hierog-
 lyphs on it, very pretty, it had been lately turned out of a tomb
 dug by Museum. Then up to the inscriptions on temple
 behind Δ^6 SE Δ by Δ^1 : they are clearly late period. Reis
 Atwak's brother grumbled to Ali at my copying, & then
 went off, & just as I had done up came the Reis boiling;
 fortunately he is not likely to make trouble, as his only ob-
 jection is the fear that I shall make it public before
 the authorities do so & get him into trouble about letting
 anyone copy it, so I assured him that no one in
 Egypt should see it for a year, & he was somewhat
 pacified; as all he wants is to keep me quiet, he won't
 make a row, for fear of exposing himself. Then back
 to tomb, & had supper: wrote to Dr Birch & Mrs Benest. 99°.2
Sunday 1 May 99°.1 Throat not right yet, so slept on
 until Ali knocked me up saying that a lady who was here
 the other day was coming down to tomb. So up I jumped &
 shuffled into some clothes hearing outside the unmistakable

tomorrow. Then took donkey for 3 francs out here. Got
 to tomb by 1 $\frac{3}{4}$. Went & hunted up Ali, he fetched some
 water, & soon I had dinner. Then writing up this
 journal, for the last 10 days; & out to see certain inscrip-
 tions lately cleared by Museum people; while strolling till they/^{<e>} <workmen>
 went off for the day, I picked up a bit of Greek pot with
 two letters incised; & a bit of fine Egyptian pot with 6 hierog-
 lyphs on it, very pretty, it had been lately turned out of a tomb
 dug by Museum. Then up to the inscriptions on temple
 behind Δ^6 SE Δ by Δ^1 : they are clearly late period. Reis
 Atwak's brother grumbled to Ali at my copying, & then
 went off, & just as I had done up came the Reis boiling;
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 until Ali knocked me up saying that a lady who was here
 the other day was coming down to tomb. So up I jumped &
 shuffled into some clothes hearing outside the unmistakable

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 voice of the irrepressibly active Miss Petermann. Finding my door not open she shot on to overhaul the tombs next to mine, & then came back when I appeared, & looked in with two little girls (French I think) whom she had in charge. She made a dozen remarks & questions in a very short time, & I shewed them a few antiquities; & then off she bolted up to the carriage, & back to Cairo I believe. Imagine a being with all the salient points of Miss Fenn & Ann Harvey in her briskest days, combined together, & some notion of Miss Petermann may perhaps be gleaned, after the product is thoroughly Germanized. I then had bath & breakfast. Ali brought in a batch of little bronzes, that he produced yesterday; then the owner asked £1 & I offered a Napoleon, which he agreed to today. There is nothing very important, but several good things, a frog, & a double uraeus earring, & some curious bronze cases (for minute mummies of baby crocodiles & snakes Ali says) with little crocodiles on the top; what with a few for myself, & Brit. Mus. & other collectors the handful of little things will be easily got rid of. I was not up to going about, or doing anything much; so that what with reading & attending to many little matters, the day (or rather afternoon) slipped away very quickly. I tried to steam some large tough cucumbers cut in slices, & they were very good for supper, like the best vegetable marrow. 98°.8 at night

Monday 2 May Up about noon, 98°.4 which is pretty well right. After breakfast I was very sleepy, &

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<Monday 2.nd May. Continued>

Monday 2.nd May. Confined
 felt too tired to do anything, though I had done nothing.
 this cold "takes it out of one so". However I potted over
 sorting & selecting all the stone implements that I
 have collected. They include specimens of worked stone
 (granite &c); old worked stone chipped up for ruder uses; blocks
 with grooves for tied handles; flint hammers; basalt hammers;
 basalt &c polishers; basalt chipped up for knives & implements;
 whetstones; scraps of sculptors rubbing stone; nether corn rubbers;
 hand rubbers for use on the nether ones; round grinders; &c,
 all of varying materials & from different places. I have a
 few more lots to look over, but I think I shall manage to
 bring all the good specimens in about 1½ cwt; this
 including very few real duplicates, though I want
 to supply the Egyptian & Ethnological at B.M. & some for
 myself, Spurrell, Lewis, &c; so very likely I may
 bring some more if I come again, & I shall leave
 all that I do not bring, stowed in the tomb. I suppose
 I shall have to bring about as much again of Δ casing;
 & ½ cwt at least of pottery. I shall also bring a few
 things of modern Egyptian ware as presents. I reckon that
 photographs will be the best things as presents to friends
 in general, being easily carried, interesting, & not
 liable to the fate of knick-knacks. I have examined
 the distance diagram with much interest, & will not
 stop here to remark on it, as I hope to talk about it shortly.

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²⁶⁴
 I never had any idea of going to Cyprus; specially not en route as the way thence to England is via Alexandria. It is now so late that I shall not try to stop at Malta, that is such a scorched up shadeless place, that I expect it would be as hot as this. So after 10 days or so here, I expect to go to Cairo; then leave there about middle of this month; & after waiting to hit a steamer at Alexandria get home early in June as I had proposed before. I should like to get a steamer to London or Southampton; but few, if any, go ~~thence~~ there from Alex^r, & I do not want to wait at Suez, as there is nothing to do there.

Please to post the enclosed letters for Sydney Hall, Mr Loftie, Dr Birch, & Mrs Benest. I also enclose the best restoration of the lost journal that I can make up. This will all be sent by Muhammed & Abu Saud, who are trustworthy I believe.

I got a letter from Dr Birch thanking me for the Sakkara copies, & saying that he had sent them to be published in the next Soc. Bib. Arch. Proc. without my name; so Brugsch will open his eyes. I intend now to bring all the things home, & then after archeological friends have seen them, & I have talked to Birch & Franks, I shall pack & send to B.M. what they may want. My examination of plane of Δ faces sent home lately answers part of P's suggestion of extra sockets; & I have no remembrance of anything like them, but will look to make sure about it.

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Cairo
 XIX-

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Tuesday 3 May

Tuesday 3 May Muhammad went off to Cairo without asking for my letters, before I was awake; I did not give them last night, as I only finished by 11½, & did not want to wake him with them. So he must go again tomorrow with them. After breakfast I turned sleepy again, & I cannot shake off a sort of lurking tendency to sore throat. I turned over all the boxes of pottery which I had accumulated, & made a list of it all; both to compare readily one site with another, without spreading it all out; & also in case it should be lost, or seized at Customs, to have a record of it: also to see how far pieces from one place are duplicates of those from others. I find very few exact duplicates, partly because I have generally described instead of bringing duplicates. This list occupied all day; & in evening after supper, I entered in to it what I had noted, but not collected. I suppose there will be about 6 or 8 biscuit tins of it, of about 12 lbs each. Beside this I shall leave tins empty to be filled in Cairo, from Memphis, Babylon, & Cairo heaps. To bed about 10½

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Wednesday 4 May

Wednesday 4 May Began writing notes on pottery &c. In evening out, & collected a lot of late pottery (Lower Empire) from a small patch of it that I had noticed on this hill. Ali also had got a batch of scraps together. I also saw brick walls built on the ruins of the late temple by Δ⁶. Back to supper, & numbering all the pieces collected. While clearing out a big beetle from behind some stones by my bed, where he made a great noise on some paper, a mouse got up to my last new provision store, on the top of one table on another, & bolted when I came back to it. I have to put things in all sorts of out of the way places, to avoid the ants who get into everything if they can. To bed about 10, tired though I have hardly done anything to day.

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Thursday 5 May

Going on writing account of pottery sites, as I wish to do it before I leave or pack up. Out in afternoon, & collected a lot from three sites for examination. Going on writing in evening, & finished my rough ^{by 12:} as far as it is desirable to do so, before seeing Memphis & Babylon, which I shall visit from Cairo. A very strong NW wind was blowing all day, & my sore throat still dangles on.

Friday 6 May

Still not up to outdoor work. So I sorted over all the Pyramid casing, settling what is worth taking, & selecting as far as I could good pairs of specimens of upper & lower joints [P] to go together. In all there are 40 tbs of special pieces, (of fine surfaces, ancient marks, & corners of stones [P]) & 30 lbs of good joint edges, ~~nearly~~ making about 16 pairs. There is a set of 4 that go well together [P] meeting at tolerably, except that corners are chipped, but this is 35 lbs, so I shall leave it for the present, the more readily as the only two are really good specimens. There is also a nice pair of top & bottom corner [P] of 34 tbs which I intend for Dr Grant. Beside the 70 lbs of Great Pyramid casing (all the better pieces of which I angle-measured to day) I selected 36 lbs of the casing of the 2nd 3rd 5th & 6th pyramids, including the fine ^{arris} corner of a basalt casing stone, which is unique at present. Thus there will be about 1 cwt of casing; 1 1/2 cwt of stone implements &c; & I expect 1/2 cwt of various, diorite statue, &c. All these will have to go in the chocolate & milk boxes, as they would make the biscuit boxes too heavy: the latter will do well for the pottery, which goes about 12 lbs to the

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box, or 70 lbs per case,. After supper writing a little more of notes of <n> pottery, & this; & to bed about 10 1/2, up to 99°.8-

Saturday 7 May.

Down to 98.2. I do not think I mentioned that the first night I was at D' G's, I heard a great noise in the Ezbekiyeh, & asked what it was about: it was a Grand Jew's Fantasiyeh on the end of the Passover, with fireworks & a band. There is a jumble for you. They always speak of a fantasiyeh here not fantasia. The row was kept up by the racketty young Hebrews all through the night, & the de squibs & crackers were not exhausted till some time after sunrise next morning.

I sorted over all the lots of diorite, & broken stone vessels, &c, to day. The other day I saw on a bit of a diorite bowl (for they cut that a <nearly> pure quartz into all shapes) which Ali brought in, the letters [𐤀] nofru, & it occurred to me that it might possibly be the name of Chufu's predecessor Snofru, only the [𐤀] s being lost: while looking over the scraps of vessels to day, I caught sight of another bit of diorite bowl, with an inscription, that I had not observed before; this is [𐤀] which I thought I knew as a king's name, & on looking it up I see that [𐤀] was the royal standard of Chufu. This makes it far more probable that the other is [𐤀] Snofru. Of course they might be merely chance scraps out of longer inscriptions broken away; but it is hardly likely in inscriptions to get just the characters of royal names which are just about the period of the bowls. If they are names it is strange that out of only about half-a-dozen bits, I should j/<e>xactly have got those

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parts of bowls that were inscribed. It is almost too good to be true. ⁽²⁶⁸⁾ Many cases they are interesting examples of engraving characters on quartz at a very early period, as they are chased with a hard point (nothing but diamond would cut so deep, I think); & clearly not ground out by a wheel, like modern engr gem cutting.

The stock selected today comes to 54 lbs; 8 ^{lbs} for big face in quartzite; 19 for pieces of name, statue, sarcophagus, & stone hammers from Abu Roash; 10 for examples of diorite working, (saw cuts &c) & pieces of diorite statues from Gizeh; & 15 for pieces of various worked stones & examples of stone cutting. So I think this is a moderate allowance. In fact everything is so illustrative that I hardly know how I shall be able to find duplicates to give away, or to keep if B.M. wants them.

This makes altogether 300 lbs of casing, implements, & worked stones. A few lbs of fossils will come in also, & with a few extras about 3 cwt will take in the stones. Beside this a simple pair of blocks for a Δ model will be $\frac{1}{2}$ cwt with the very least excess that will be safe to leave for finishing them. In fact if I find that I cannot easily get good blocks, or that a stone sawyer is not to be had, I must drop this idea till next season.

The pottery will go easily in the two biscuit cases, but that a good many specimens are necessary is clear from the fact that I have sketched & described roughly, about 127 varieties or forms in the comparative table of it; beside many which I knew only to occur in one place, & so did not enter.



In afternoon I went out with Ali, who brought his big hammer, (Wayⁿ Dixon's) & smashed up a big bit of granite, so as to trim out a part which shewed a drill hole in it; it was a bit of a sarcophagus side about 20 lbs or so, & I trimmed off excess till the part

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wanted only came to 4 lbs, shewing the trace of the side of the hole made to cut out the granite from the inside. There are many scraps of granite sarcophagi kicking about here, from 10 to 30 lbs. I also scraped out all the ashes of a large fireplace, in the Ptolemaic period house; the fireplace was a semi-cylindrical back of baked clay, about 3 ft diam & as much high, the clay about 1 to 2 ins thick plastered over crude brick backing; it had been put on in ^{courses} ~~layers~~ about 3 ins high each, & one dried or baked before the next was plastered up on it. The ashes were of charcoal, wood, & ^{much} ~~scraps of~~ palm leaf? & I picked out several bits of pottery, which though not special, are at least certainly as old as the building, & probably not older. Back to tomb & had supper on some tomatoes which Ali had got for me. In looking over the diorite scraps today, I catalogued each piece according to the sites of them; then seeing where work was done, & where only finished statues were placed: I also considered all the criteria for settling whether the grooved surfaces are ^{sides of} saw cuts or ground surfaces; there are three good reasons for their being really saw cuts, the principal one being that in a saw cut lines of each stroke are very likely to tip alternately one way & the other  according to the throw of the saw from one man to the other; whereas in grinding it would be impossible for the grains of emery (?) to shift thus regularly & this arrangement of grooves is exactly what is shewn on several surfaces; & also in the side of a scrap of a big tube-drill hole, according to a slight tip of the drill one way or another . So I think there can be no doubt about the sawing of quartz; though the puzzle is what length of saw or marvellous cutting powder they

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Cairo XX

[This is written in the bottom right corner of the blank page opposite page 269, which is unnumbered.]

must have had to advance $\frac{1}{27}$ inch with a single stroke of the saw, for this is the regular uniform distance of the grooves apart ^{in one good specimen}. Imagine cutting through 1 inch deep of quartz, of at least many inches in length, with only 10 or 11 double strokes of a saw; yet they did it.

Sunday 8 May I forgot to say that Omar came up & had a talk to me yesterday, as he was passing; evidently to look out for the job of digging that I had half-promised him sometime ago. He impressed on me that some men wanted only money & not friends, & such were the Pyramid guides & their sheikhs; but he & some others wanted friends & not money: that the sole business of the Pyramid sheikhs was to take people up & inside, & not to superintend any digging, but that Ali & he were the only proper people to manage workmen here; that he had no doubt I should make a big book, & his great & sole anxiety was to have the pleasure of doing something for me, that I might give Sheikh Omar a good name in print; &c, &c, &c. Of course I understood all this, & told him that he should have the job of cleaning the Third Pyramid sockets. This morn before I was up he came knocking, & beginning the subject again; so I told him I would mark where he was to dig. After a late breakfast, & tidying up, & reading some time, & a talk to Ali; I went out when it was cooling down, & began to make my way to Third Pyramid to look at it more closely; before I was farther than the Δ^2 I saw Omar in chase, wiping his gentlemanly & suave brown face; he came up, & would not rest till he had settled the matter.

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Sunday 8 May

I forgot to say that Omar came up & had a talk to me yesterday, as he was passing; evidently to look out for the job of digging that I had half-promised him sometime ago. He impressed on me that some men wanted only money & not friends, & such were the Pyramid guides & their sheikhs; but he & some others wanted friends & not money: that the sole business of the Pyramid sheikhs was to take people up & inside, & not to superintend any digging, but that Ali & he were the only proper people to manage workmen here; that he had no doubt I should make a big book, & his great & sole anxiety was to have the pleasure of doing something for me, that I might give Sheikh Omar a good name in print; &c, &c, &c. Of course I understood all this, & told him that he should have the job of cleaning the Third Pyramid sockets. This morn before I was up he came knocking, & beginning the subject again; so I told him I would mark where he was to dig. After a late breakfast, & tidying up, & reading some time, & a talk to Ali, I went out when it was cooling down, & began to make my way to Third Pyramid to look at it more closely; before I was farther than the Δ^2 I saw Omar in chase, wiping his gentlemanly & suave brown face; he came up, & would not rest till he had settled the matter.

I am rather glad he should be so active about it as I want them cleared soon if at all now, as I must go ⁽²⁷⁾ so soon.

I must put ~~the~~ Sheikh Ibrahim on the small clearings ~~away~~ about the Great Pyramid; I have not done so yet, as I was suddenly hindered by my cold, & till today I have not felt well enough to stand out in the wind (warm though it is) to settle such matters on the spot. Today it is 80° in shade, & 90° in shade outside; yet I do not feel it at all overwarm. On coming back to supper, after a round over some hills of the desert behind the hotel, Ali tells me that Muhammad is going to Cairo tomorrow: so as I suppose he can be trusted, I shall send this by him, & tell him to get any letters for me. So I finish this up now ready for him.

I shall certainly not be able to leave here in less than a week, so that 2nd week in June will be my earliest probability of being home.

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 to bed: Mr Melville in tomb by mine, & the Americans & Mr
 Gibson in the kiosk. I then went up & examined the
 forced hole in the ^N end of the Grand Gallery. It is quite
 modern, by Caviglia or Vyse apparently: & there can
 be no importance in it. It is only 20 ins deep at
 maximum. Then I plumbed the N wall taking
 offsets all the way down: it has about .7 inch batter, or
 leans N.ward at top, from where it would be if each face
 were vertical. The most novel point is that only
 two of the overlappings ~~are~~ follow the passage slope,
^{three or others} ~~the rest~~ are horizontal like the S. end: thus;
 This was all finished, & I came back to tomb about
 3.

Tuesday 10 May I sat till 4 reading letters
 & paper, & boiling kettle for stock of drinking
 water. Then went to bed, but could not sleep at all.
 At 8 Mr Melville got up, & saw Dr Grant off: the
 Americans went to Sakkarah. I got some sleep from
 8 to 11 & then up; by 12 breakfast ready & I found
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 3¹/₂ or so we went off to see Omar's diggings. They
 had not found a single socket; all were much
 deeper than expected. I directed them to try deeper
 at Δ^2 corner, & they found a well marked raised
 square at just the right place. But at 3rd Δ
 they found rock in NE & SW but not a trace of socket
 or line. At SE a large block of stone with vertical
 face which I supposed to be a socket side, ^{but which was not oriented} ~~but~~ which was
 dug down beside for two feet or more without finding
 any rock. At the NW no bottom was found at 8
 feet deep. All the holes were very awkward to work,
 being in a confused mass of granite blocks, large
 enough to crush a man by slipping; & resting in loose
 sand which ran down & filled up the holes. On the
 whole I saw that it was hopeless for Omar to carry out
 his agreement of finding the socket or even the
 rock at all the corners for 2£. ^{Additional work was useless, so extension & etc need further payment.} So I suggested to
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 least to find the rock, if not the socket, - & he stuck
 to the fact that we had both supposed the depth to be
 much less. However I offered to compromise for 30/- ^(after which I saw he cheered up more), this
 being probably 2 or 3 times as much as the wages he
 paid. He was perfectly content if he had nothing
 or if he had 40/-, he protested; saying that nothing about
 money ever made Omar unhappy, &c, &c, &c; so, after
 a long talk, we went back to tomb & I paid him; he then came in
 asking for 11 piastres ($2\frac{2}{3}$) more saying that would
 be 2 Napoleons, which would just pay the men & leave
 him nothing!!! So this was his request I immediately paid
 it, & it left him thus in the position of my paying
 what he wished, & not of his being obliged to accept a
 reduction ^{from agreement}, which was how he persists tacitly in taking it.
 So shaking hands with the proper cordiality; & a parting
 shot in extreme friendliness from me, that I hoped
 we should find it possible to finish the next agreement
 we made; & an informal comment that the next one
 would be a very long time hence; I parted with him on
 the best of terms. Ali I feel is very sore about
 wasting money on Omar ^{in thus indirect bakhshish}; for though not at all grasping
 himself, he is very careful that no one else shall get
 a piastre more than they deserve. After supper
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 It has been languidly hot today, 95°, & even 105° without direct sun.
 Wind & a little rain to night.

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Wednesday 11 May

Wednesday 11 May After somewhat of a storm of wind & a little rain it was fresher to day. After breakfast, which was not early, there began a chaffering of antiquities: first Ali about the lot I had selected from Smyne's brother, which he indignantly refused my offer for before; however he had come down, & I was willing to go up & so we managed to meet terms. The things are a few good but small bits, one of which I have got for M^r Loftie. Then Omar came up all smiling as usual, with a lot of his things, quite on the best of terms; which shews that he feels satisfied after all about yesterday's business (as indeed he ought to be); & I picked out one or two of his. Then Ali brought back the previous lot, terms accepted. Then two or three other men brought little stocks hearing that dealing was going on. It was well it all came while Melville was here, as he wished to get a few things. The best things of the day are a mould for making figures of Typhon, very fine & sharp; a double Janus-head of Typhon ^{in bronze} with Horus seated on it. An exquisite little hawk cut in felspar: a stone with cartouche of Thuthmes 3rd (very common) & name of Seti Menephthah Ist in reverse; a very good black scarab with king's name of 26th dynasty, chipped on back, but name perfect. When the afternoon was quite cool Melville went off to paint Sphinx, & I worked at packing; at sunset I put kettle to boil & ran off to him, just as he was shutting up, & went round Pyramid hill by moonlight to shew him points of view. Then back to supper ^{by 8}. He knows Mount St M. very well, staid there about 3 yrs ago, but does not remember M^{rs} V.; perhaps she may remember <hearing of> him, as he was much at the Abby <, he was much interested & amused with Mabel's letter.>. After supper experimenting on the Arabic reed pipes, of which Ali ~~fo~~ got me four varieties; two double pipes & two with drones. Wrote this & to bed abt 11 1/2.

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Thursday 12 May

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 latish breakfast. A man brought in a handful of little things, of
 which I picked out two much worn stones, dark green; one ^{scarab} with a
 lively but barbaric little dragon on it, or a pegasus with lion's
 head, the other in shape of a ram's head, but seal worn off. Out
 about 3 & after arranging matters Melville came up, & we
 chained & ^{steel-}taped the base length of my survey as an
 approximation, (being having stations fixed common to Gill's
 survey, & thus a lineal value from his base); the two measures,
 which had different stations for junctions (chain being 1000 ins &
 tape 100 ft) agree within .7 inch, the tape being lighter & stretching
 straighter will account for part of this. The whole length is
 7907 ins, (i.e. practically as long as Δ base, for all questions of
 accuracy), & the reductions will be tolerably made by having a
 profile of the ground already levelled some time ago, & having
 noted also in each stretching what lengths (by eye estimate) being
 catenary. The pull was about 20 or 25 lbs, as I wanted a
 tighter pull than mere normal, in order to get catenaries as
 little as possible on rough ground. As the greatest shortening by catenary
 on the worst length of tape is only $\frac{1}{20}$ inch, & the worst length of chain of inch,
 the error of allowance will be very small; & on the 8 chains or 7 tapes,
 I think the error cannot exceed $\frac{1}{2}$ inch ^{including slope of ground} from all causes, possibly 1 inch.
 So this will give Δ base tolerably; until we can do base accurately
 by supports at ^{known} levels & distances for chain, which would be a
 few days work, longer than I can ask Melville to give to it.
 Then I went & measured the lower 10 or 12 courses of the Δ^2 , &
 took levels (within ± 1 inch) from rock sockets to the masonry
 courses by my little suspensory mirror level. I find that the
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are very uniform only differing an inch or two, & often exactly the same at different corners. The rock beds of the sockets are also on the same level, within 10 ins extreme difference, except the SE which is about 40 inches lower than the others. I should like to measure courses all up Δ^2 , but it would be a long job owing to the difficulty of finding ~~clear~~ contiguous surfaces clear of the decomposed rubbish of the stones. This occupied till dark when I went home. Just as we were settling to getting supper ready, a man came for Melville to fetch him to some friends who had come over, three ladies & 5 gents. They came down after I had had supper (Melville supping with them in kiosk) & looked at my various antiquities; they much admired the big Ptolemy coins, & the bronzes, &c. Afterwards I thought they were going into Δ so I went out to give them a bit of magnesium; I found them down to at the causeway to granite temple sitting & chatting (a bright clear full moonlight night), & as they had not been to the temple I went down & shewed them & Melville sundry points. The crucial case of tube drill hole in a door socket caused much interest, & was examined by all; they quite agreed as to its formation, & certainly nobody to whom I have shewn it has ever seen or heard of it before, & in fact never heard a whisper about any such means as tube drills or emery saws being used. Melville, though not at all mechanical, is quite taken with the notion of thus finding the methods of work. The temple looked splendid, the huge

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 Friday 13 May Not very early up, & then going on packing.
 Had breakfast about 12 $\frac{1}{2}$, after Melville had had a bit of
 painting in the plain below. Then I went on packing, but
 not briskly, feeling slack & lazy today. This packing takes
 a long time, both in considering how to pack things for
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 for law, but (with Scotch method) saved his allowance for two years,
 & then bolted from college to the Edinburgh School of Art when he
 was under 20, & got three months there before his whereabouts
 was known: he is now only 24/5 & but has succeeded so well as
 to net 7 or 800 £ by painting last year, & came here on the
 strength of it; having in fact lived by painting ever since he took
 to it. He has a curious combination of the characteristic extravagance
 & helpless, or rather careless, way of artists; on the back of Scotch
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Saturday 14 May

Saturday 14 May. Antiquities began flowing in again. Ali brought in a batch for which a man wanted 60 francs, but I only wanted a few things; so between Melville & myself, & Ali taking the remainder, we cleared it off. There was a beautiful aspid flying, much damaged & eaten however, which M. took. The main thing I had was a fine head of Osiris in bronze, knocked off a statue ^{anciently}. Then I went on packing & got all the pottery packed; so now only ordinary little things ^{by opportunity} & a few water jugs from Cairo, & some pottery from there & Memphis, will have to go in, the latter to be packed in Cairo. Then in afternoon Ali introduced another man with a lot of bronzes; which were very cheap, & so Melville & I split the lot, he taking two cats, (one of which was fine, just such an old demure beast as the Harvey's one); & I took a big cat ^{minus part of fore legs} (5 1/2 ins high), a lifelike kitten on a top of a staff, a cat on a jug handle (of which I had one already), a good Bubastis, and two or three other things; all for 12/6. Then in the evening Omar brought in some little stone things, of which I also took a few, & Melville the same. In everything in the way of antiquities I have run up to £6 8^s (for 16 scarabs, 20 bronzes, 21 stone & 18 glazed trinkets, 83 articles, besides 16 coins & big shrine of Ptah), so I must not go much farther, but I am sure to get the cost from any collector in England, or turn a penny by selling at a sale, as I remember being horrified at the prices ^{for which} a collection sold a few years ago. About 5 went off with levelling rods, & Melville soon followed me, to the Δ¹ entrance. There, he holding 200 inches of rod with plumb bob, & Ali holding short rod on the step on which the theod stood, I levelled up ^{in 2 lengths} from casing to station from which 10 inch theod surveyed the casing, & then on ^{in three lengths} up to

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(281)
 the entrance, where I fixed the courses about the ancient
 mouth, & the level of my station mark on the present floor
 of passage. I did it all by estimating on 1 inch divisions,
 reading the nearest $\frac{1}{100}$ in, the greatest diff of my readings being
 $\frac{1}{30}$ from max to min. The difference of the ~~readings~~ ^{levels} on the short
 rod, are striking; they are compounded of error of level of
 for 20 ft or so course between rod & theod, & of roughness & irregularity of
 stone; the mean height of theod on stand is 23.30 by this, & the
 differences on 5 different courses are $-.14, \pm 0, \pm 0, \pm 0, +.17.!!!$
 The differences between the levelling all up, & my measuring up
 previously are not much; $-.34$ on 200 up, $-.19$ on 300,
 $+.14$ on 460, $-.21$ on 600, $+.15$ on 636, $+.5$ on 670, & same on
 to 750. Thus my measure, & difference of rather different parts
 of courses, ~~are only~~ only make up, an error of $\frac{3}{10}$ for 600
 inches, & $\frac{1}{2}$ inch up to 750; a break in my measures ~~not~~ occurring
 over 600, not very well connected. This is really finer work
 than in the eye ^{levelling} measuring than I had anticipated; & suggests that
 similar measures all up would be useful, for the other authorities
 are far rougher, differing thus ^(after reduction for pavement level) at 753.14 true, C.P.S. 750,
 Jomard 745, Le Pere 763, & my measure 753.6. So I begin to
 feel rather self-satisfied.

Omar pressed me & Melville to come down to dinner to him some
 day, but I fought off; as 1st I must then be more intimate
 with him, which I do not wish; 2nd I should need to give
 a return present of some sort. so I pleaded that all my time
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better in the cool than during the day. It has been about 80° in tomb (up to 83°) ~~as~~ & 95° or so outside ²⁸² today. Then after supper I reduced levelling; then wrote this & to bed not before 12. I have now done the two short jobs for which I wanted accurate assistance, ¹ a near approximation to the survey base, & ² accurate levelling up to the theod station & to entrance. This makes about .75 less vertically between passage & entrance course, = about 1.6 less length of passage than I had stated before. In any case we are now sure of the angle of the casing from base to entrance, to less than 5'.

Sunday 15 May We did not breakfast till 12, though I was up sometime before, as Melville was out. Then we went over to look at several things here he had not had time to see before, ~~as~~ he intends going early tomorrow. I specially shewed him a fine desert view, looking up a valley with two lines of cliffy rocks one below the other, & distant hills about 10 miles off up the wady, with several ridges & groups nearer on the right side of the valley, & Abu Roash hill rather farther to that hand. He liked it much, but somehow all the afternoon slipped away. On returning we found the inevitable batch of antiquities awaiting us, which we did not patronise. Also Melville's donkey & boy ready for him. Then after supper, & admiring a splendid full moon in a dappled sky, we said good night; he wishing to be up early tomorrow, to do a sketch before breakfast.

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It ⁽²⁸³⁾ was a delicious night, a mild breeze at about 80°; fresh but not chilly; & the earth warm & dry, so that one could go about barefoot. I have quite abandoned foot covering for a long time, except when needing to go over rough ground out of doors, when I slip an old pair of boots on. I am going to Cairo tomorrow morning, & so Melville intends going back with me: there are several things (cash included) which I want before I leave here, which I hope to do in less than a week now, thus reaching England during the third week of June. My going seems to run on something like the coming, until it is a question whether it is worth returning at all. We ought to be here by middle of October to get the ^{end of the} fruit season; so that will only be 3½ months in England, or 4½ absence from here. I shall have to look sharp to get my work all reduced in that time, as all the unpacking & disposing of the things I bring will take some time.

Melville with all his artistic experiences of roughing it - is so amused with the novelties of this abode & way, that he is going to make up a letter on it for some (Scotch?) paper for which he writes.

Letters rec^d - many thanks & the last Pub Op

Cairo.
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Monday 16 May

Monday 16 May. Mr. Melville was off early for a sketch in the plain below, & came up to breakfast about 8½. Then we started off for Cairo, where Melville went to Sheppard's (where he was staying) after fixing me to come to lunch there. I went to post & got letters; then to Bank & got £10; N.B. The Bank of Egypt only take ½% instead of 1%, & the man speaks English. Then to hotel & had lunch with M. & some of his friends who were out here the other night. We then had a long chat over antiquities, & looking over his pictures, &c. Grose, the manager, also paints somewhat, getting a good sale to tourists staying there: he shewed us an oil picture by some Frenchman, which had the absurdity of the moon just half behind a cliff & yet lighting the foreground at B, which must be in deep shadow. The clouds also were very cranky going all manner of ways, & some no way in particular. The whole seemed to be evolved out of an extremely unobservant internal consciousness, color & all. Yet it had been put at £1000, which Melville immediately knocked down to an estimate of £10. I also saw some impressions of scarabs which have been rather notorious, being forgeries, & get sold at a rattling price (£5 to 10 each) by the German consul at Luxor. I clearly saw in each, points which no E old Egyptian would ever have made; & Grose agreed on the details, though he had only condemned them from a general impression before. Then I went to Dr Grants & had a talk with him, on requisite bakhshish on leaving here, &c. Both he & I have received an astounding offer from Brighton, to disclose to us the place in the Δ of two ox hide rolls containing inspired writings for the close of this Dispensation!!! I enclose the letters ^{sent to me} & my reply, which please post: I want to draw the

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writer as a matter of pecuniarity. Dr G. was thinking of stipulating to do it, provided Barrow gave £100 to Cairo Hospital if nothing was found; not a bad notion, but it would be awkward taking the cash after all. Strangely enough he cannot quote a text correctly apparently, for I do not think the phrase "the truth shall be established" ever occurs: this is like the Anglo Is. Then I did some shopping, & started back, walking the last 3 miles as Mohammed had an awkward (though empty) box to carry otherwise, which I got for packing. Had supper & read Pub. Op. of April 2 - the missing one - which came with the new one; the last of course I sucked on the road. There is ^{in the old one} a rich article on furniture from Sat. Rev.; & I see that Frank Buckland would exactly have appreciated the costume of two garments & no more, which I have come to have.

Melville much pressed me to come as his guest to Sheppard's when I stop a few days in Cairo, but I declined as I know it is a very expensive place, & also I should have to attend to appearances more than at the Europe. So he then said he would do me a sketch here when he comes out here again, as he intends doing in a few weeks, after I have left. I shall leave my tomb & furniture at his disposal as I should to any friend of Dr Grant's, & he will have the key from the Dr, when he wants it.

Tuesday 17 May At breakfast there was a bit of fun with the dogs. First comes the little white one, & devours rock-like bread left by Melville, ^{which I} dipped in surplus sardine oil; looking round continually to see if any other dog was coming: up comes Wagtail, who in his usually affable manner - looked out for some scraps: he turning off round the corner I gave Whitey ~~so~~ a bit of biscuit, but no sooner was the crunching fit heard than round spins Wagtail into

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the tomb, rolls Whitey into no shape, kicking up a great dust; Whitey bowling off anyhow out of the tomb, drops a scrap ⁽²⁸⁶⁾ which Wagtail picks up, & looks for more. His triumph was short however as big Black & white, a sturdy fellow that can beat all the others, came strolling in. I never saw such an absurdly sycophantic smile as Wagtail put on, he held up a paw, & smiled, & cringed up against the door-post, as much as to assure black & white that it was the greatest pleasure in life to see him, & that Wagtail was only keeping the place warm for him. He managed however to sidle out, & as soon as he was fairly astern of Black & white he bolted to a safe distance. Every dog here knows the others strength so well, & precedence is so exactly settled by experiment, that squabbles are rare; it is only an inexperienced pup that ventures to try for a bit in the presence of a superior, & he generally gets such a turn over for his presumption that he flies squealing.

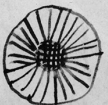
It was such a deliciously cool-feeling, fresh, morning that I put out the thermom^r. & found it to be 92° in shade, I have been so baked that I do not feel happy under 80°. After writing up this, which I was too sleepy to do last night, & attending to miscellanea, I shewed Ali the way to clean his coins; he had some Hydrochloric acid, but was afraid to use it; they charge 3 francs for a small bottle of it in Cairo he says, & he was delighted to hear that it only cost a piastre a pound in England, & begged me to bring some.

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
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the results in England, while leaving the instrument behind. Ali's brother, Abdurrahman, the chief of the village guards, brought up all his remainders of his stock of antiquities from this seasons selling, to get me to work them off, & leave him clear for a new stock. I am here about the right time now; for travellers having nearly ceased coming, the people wish to realise on their odds & ends, without waiting for next season. As they were cheap I took nearly all; the good things have been all weeded out by Mr Chester, Mr Loftie, & such collectors; but still scarabei with inscription or figures at 3^d ½ each, & little porcelain trinkets & fragments at 1½ each, are a safe investment; there were also some bronzes rather interesting; three arrow heads among them (& I remember seeing one such sell for 15/- I think, at a sale); & sundry coins mostly needing cleaning, but including many of Cleopatra IV with elephants skin, which is not common. The most curious thing is a large rosette button  double this size, rather rudely cut; ~~but~~ I thought it was in limestone at first, but I find it is ^{hard stone} ~~quite unscratchable~~ ^{glazed?} by a knife, & only cut into with hard file. After supper I sorted over all the lot; then wrote this, & to bed about 12½.

There are delightful melons coming in now. I got some about 9 ins long, green all through, & of the consistency of a Williams pear & rather like ~~them~~ it in flavour. Price 2^d; to be 1^d later in the season. Dr Grant says that dibs (dried grape juice) is purely Syrian, & he has not ~~even~~ ^{here, even} seen it in Syrian families ~~here~~.

Wednesday 18 May After breakfast arranging things to go to Δ to take casts & measures; with various delays it was 1½ before I got up there. I took a cast of the saw cuts on the coffer, & while that was setting I went off to prepare the boss; soon

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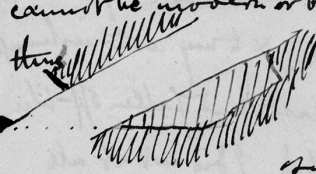
after I heard a noise, & going to look I found the plaster had
 set, & fallen off the greased surface, with no damage but a
 chip off the corner. I then went on with doing the boss. I had to
 clean it well from all the bad plaster of former casters. I
 found that Mr. Hall's box was not available, for the following
 reasons; (1) Mainly because it is only $7 \times 11\frac{1}{2}$ whereas my
 cast (which is none too large) is $9\frac{1}{2} \times 13\frac{1}{2}$ & only just shows
 surrounding surface well. (2) Being so narrow it would hitch
 on the splay of the boss, which is $7\frac{1}{2}$ at widest, & let the plaster
 run out. (3) The granite is so irregular in its dressing, that
 the box touching at the prominent points might let the plaster
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 $\frac{1}{10}$ inch above the sides of the box, & the cast of the joint $\frac{3}{10}$ th.
 (4) The box had opened its joints with the drought, & the plaster would
 run into them. (5) The cast would be about twice as heavy, ~~as~~
 as I have it only about $\frac{2}{3}$ inch thick. So I did it like all smaller
 casts, by plastering it on the surface; beginning at the bottom,
 & building on batches of about 1 lb at a time until it was covered;
 the advantage of this way is that no large air bubbles are possible,
 & only occasional seams between the batches shew. ^{Take care to key them well together, & build on half-set parts.} Just as it was
 done two Englishmen came up, & made some remarks very civilly;
 I just looked into Kings Chamber after them, & to my astonishment
 heard a smash behind me & found my cast had fallen off - like
 that from the coffer - but unhappily smashed. I did not at all
 expect this as I thought the projection of the boss, & the deep joint-
 cast, would hold it on. So after some necessary delays I built
 up another; & held it for a few minutes, until I heard by its tone
 on scratching it that it was detached, when I lifted it off. I then
 went to Kings Chamber, & took casts of two tube drill marks in

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 expect this as I thought the projection of the boss, & the deep joint-
 cast, would hold it on. So after some necessary delays I built
 up another; & held it for a few minutes, until I heard by its tone
 on scratching it that it was detached, when I lifted it off. I then
 went to Kings Chamber, & took casts of two tube drill marks in

coffer of the corner of the cut out ledge, & of the difference of surfaces where a boss had been dressed away off one of the blocks. The night Dr Grant was here we scoured the walls in search of bosses, & found traces of 6 or 8 more, all on blocks of bottom course. Then intending to do some work outside I left taking measures & went out, but found it was 6 instead of 3 or 4 o'clock as I had imagined.

So I only had time to take the plane of curve on NE socket again very carefully, 3 readings of the face looking to the top, same across middle, & as low as possible over rubbish heaps, there being a distinct difference ^{of 2 or 3 inches at least}, i.e. the face not a plane. This I intended to do for each corner, the results being so important.

Then after supper, wrote this, & to bed about 10; in hopes of work early tomorrow.

Thursday 19 May Off by 10 $\frac{1}{2}$ to Δ , not waking early. There observed the holes in Entrance Passage floor; they are clearly cut from below upward, & are unfit for extracting the blocks, which some suppose to have been put in. Also the greatest cut out near the bottom is of original work apparently; I had long seen that it was very regular & deep, & today I saw three places with plaster daubed in with the fingers, into a joint of stone in the side of the cut out, hence it cannot be modern or by mere destructionists; also it begins level thus  & this ^{part} is just level with beginning of ascending passage floor, which again suggests it being ancient.

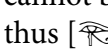
Then I levelled from Entrance to ascending passage. A staff 100 inches long was put vertical in Al Mamoon's hole. The short focus theod. was set on rubbish in Entrance P., & read on rod, & then on floor of entrance passage, joining its readings onto marks left from my taping the whole length. Then the theod was put in ascending passage,

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Then after supper, wrote this, & to bed about 10; in hopes of work early tomorrow.

Thursday 19 May

Off by 10 $\frac{1}{2}$ to Δ , not waking early. There observed the holes in Eastern Passage floor; they are clearly cut from below upward, & are unfit for extracting the blocks, which some suppose to have been put in. Also the greatest cut out near the bottom is of original work apparently; I had long seen that it was very regular & deep, & to day I saw three places with plaster daubed in with the fingers, into a joint of stone in the side of the cut out, hence it cannot be modern or by mere destructionists; also it begins level thus  & this level <part> is just level with beginning of

Ascending Passage floor, which again suggests it being ancient.

Then I levelled from Entrance <P> to Ascending passage. As staff 100 inches long was put vertical in Al Mamoon's hole. The short focus theod. was set on rubbish in Entrance P., & read on rod, & then on floor of entrance passage, joining its readings onto marks left from my taping the whole length. Then the theod was put in Ascending passage,

but no standing place would see the staff, & be in focus to passage wall;
 so I set it ~~near the~~ within reach of the E wall; read on the rod &
 then ~~rod on~~ adjusted a black bar (pencil or steel measure) ²⁹⁰ so as
 to read level in theod ^{out of focus} & read its place on floor. Thus I got the
 exact diff. of level between two points in Entrance & Ascending
 passages, the most important form for settling levels of chambers.
 This reduced gives 254.4 from C.P.S.'s zero in A.P. to floor E.P.
 (or 250.8 if the angle of passage by plugs is same as in E.P.) & the
 measures lineally of C.P.S. give 252.5. Hence I have my own
 measures continuous from casing to Grand gallery. They come
 out thus

casing	— 492.1	} 1121.6	} 2670.0	The small figures underneath are what the lengths would be, if the angle of plug blocks was as great as Entrance passage angle.
line in pass	— 629.5			
junction of floors	— 1548.4			
N. wall G.G.	— 1544.8	2177.9	2666.4	

I then tested my differences from C.P.S. in long measures; as the
 discrepancies occur in particular points mainly, & are hence
 checkable by rod measures. In two cases I had mistaken whole inches,
 but in total lengths I have now duplicate measures, quite
 independent, agreeing within 2 or 3 tenths, but differing from C.P.S.
 by 2 or 3 inches; hence I conclude his measures slipped, particularly
 as his worst difference, in A.P., occurs just at its roughest part,
 over which the tape stretched without any perceptible error.

Then I measured the walls of K.C. by rods to settle difference
 between C.P.S. & my other measures. ~~These show~~ I find that I was
 not wrong in the main discrepancy between us, but here again the
 floor is broken up, & hence C.P.S. error probably arose. Then
 I measured the height of the 1st course above the floor all round in
 14 places. The differences of level cannot be due to the digging beneath

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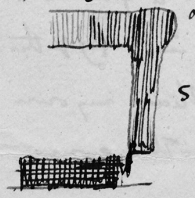
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N. Wall G.G. —	1544.8	2174.3	

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as the blocks are nearly 2 inches higher over the excavation, than they are in the undisturbed part by the door. Then I came out

about 4 to do some work in the cooler time. There was a stiff breeze blowing at about 100° F or over, from the S.W. I cleared a good deal of the bottom of the hole over the S.E. socket of Δ^2 & found that it was very curious, a trench cut in the rock, then



outer corner. The crossed part ~~is~~ is much deeper (over 9 inches) the other parts are 2 to 4 inches on S side, & over 6 ins on E. The trench is about 7 to 11 ins wide, & very rough sloping sides.

It would be interesting to clear all round this & understand it, but I cannot wait for that now. I fixed all this in relation to the big triangulation, & by that time it was sunset. Then back to supper. A thunderstorm began with a N wind advancing, & much lightening about 10 miles off over the Delta. As the storm went on there was lightening & thunder between the clouds, about 1 1/2 miles high, all along the junction of the winds across their line of blow, for 15 miles or more. The air was 94° though nearly dark. Then a furious wind storm arose, & rained sand on my door; & after that the air is now (11 pm) quite cool, under 80°.

Friday 20 May. Put some old gutta percha soles to boil up while I had my bath, & then working the bits up into a mass, I gave them a final boil, & wrapping the saucepan in an old cloth went off to the Granite Temple. There I got a tolerable cast of the most decisive of the tube drill holes in the door socket, but could not make the gutta p. squeeze into the narrow circular groove all round; still it shews it clearly. Being an upsidedown hole, plaster, &c, will not do at all; perhaps beeswax might do it well. The Arab employed by the Museum here as a general superintendent, ~~is~~ is now going down with

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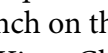
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the saucepan; I exchanged "neharak saida" (good day) with him, & he went to Ali who I had seen near & asked him (292) what I could be doing? was I going to cook? So Ali, delighted to throw him off the scent, assured him I was going to do cooking in the temple; as I came out I met him again, evidently waiting for me; he said something, I forget what, so as I had my hands full I bid him look in the stewpan; lifting the lid with great curiosity he saw ~~so~~ a tin pot floating in a lot of dirty warm water, so clapping it on again with a laugh he left me, probably convinced of the insanity of the strange khawaga by this time. Then back to breakfast my kettle having boiled which was out. Then an old man who peddles in antiques, brought in portions of a ^{bronze} frame work, ornamented with bulls heads, two pieces thus,  & one head alone. I saw they would clean well, not being much oxidized through. The most interesting point to me is that the horizontal bars are cast over an iron rod, the iron .24 thick diam, & the brass .06 thick, & excellently centered around the iron core. The uprights, where so much strength was not needed, ^{I bought them at a cheap rate.} are brass all through. Then after breakfast I marked two strips of paper with dark blue crayon into ¹⁰ alternate light & dark inches for levelling. Then off to Δ about 1, with Ali. Sticking the papers on two rods with scraps of wax, I set one at N. wall Grand Gallery, hitching the rod upright just at the joint in the floor, ^{by lighting it with a candle on the ramp} the other bet by the niche in Queen's Ch. with Ali to illuminate it. Then setting the rod in passage between them, I levelled Q.C. from end of ascending passage, dip 18.21 inches, or first lap of niche 48.76 over beginning of Grand Gallery.

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Ali unhappily turned faint, a thing he is liable to, & I had to
 (293) wait a bit. Then I got him to hold rod, & levelled five intermediate
 points along the passage. Then going up to Kings Chamber,
 I set theod in Ante ch. & levelled from great step to Kings Ch.
 & also each intermediate stone. K.C. floor by door is 1.11 lower
 than great step. I saw that the ramps are not square at
 the upper end, but slope thus  about 1 inch on their
 width. I also measured with steel tape from Kings Ch.
 out to Grand Gall^y; whole length .4 less than C.P.S., but a
 whole inch difference in one part. I have ^{very careful} previous measures to
 check this. Then let the tape lie all down the E ramp, the
 shortening by the catenary over the broken part being under
 two inch: let it down some way to reach bottom, the junction
 of the two lengths being fixed by 3 points in common at some
 distance apart which agreed well. By this the length of G.G. from
 N wall to step face, on slope, is 1815.4, & to S wall 1883.5. This is
 allowing for a separation of .3 between step & end of ramp, the
 whole side of G.G. having slid that amount ^(or 44 mm west) downwards over
 the floor, causing cracks all up both ends by the dislocation.
 The difference of .7 from C.P.S. occurs all above the broken part
 of ramp, but I cannot imagine the tape to be wrong, especially
 as I have found C.P.S. wrong in other passages.

Then I measured the heights of the Antechamber passages.
 Then the opened joints in Kings Chamber, along 2^d course;
 the sum of the openings is N wall .21, W .38, S .41, E .14; many
 joints (over half) are close & not at all wider than the mortar;
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the chamber now ~~not~~ are this much larger than when built. I also counted the traces of bosses along the K.C. 1st course, 5 on N wall, 4 on W, 3 (or 7?) on S, 3 on E; many of them shew very plainly where they were, but some are indistinctly merged in the dressing of the block. This finishes all that I reckon I can usefully do inside without skilled help: I might do a lot of joint measuring in Grand Gallery, but the manifest irregularity of joints in many cases, & the lack of any satisfactory use of the host of joint measures already taken, make me lukewarm about such work; & I think the time might be better employed, e.g. in good course measures. Then I despatched Ali back with the thing, & took accurate estimations of planes of core on NW & SW sockets ^{3 readings on 3 parts of each face, i.e. 72 readings all round}. There is no trace of any line outside the recognised socket edge at SW, except a possibility of imagining one at 17 to 17.2 S, & another at 13.8 W; but these are but the shadows of ghosts, & are probably only fortuitous arrangements of some of the ~~gene~~ pits of the generally rough surface: also the stone slopes away directly on the W side from the drawn line, dipping 1.5 on 10, & on the S. it is the edge of the stone, ^{for all the socket floor is built.} ~~(or rock?)~~. The socket floor has traces of the ochre of the facing plate, on all its prominences. Then back to supper by dark; cucumbers & tomatoes; reducing measures; wrote this; & bed about 11 1/2.

Saturday 21 May Off before breakfast & looked at SW socket again, seeing possible traces of lines at 9.8 S. & 12.2 W. of socket sides, but I think I could find just as good marks anywhere else. Then took

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offsets from rough triangulation points on walls behind Δ^2 , a job that has waited for a month or more. I am more convinced that the so called "rows of rubbish" up in the corner of the banks or walls, are remains of regular walls, probably of dwellings; there are distinct lines of facing, of blocks arranged with flat faces out, & I expect all the lines are regular walls if they were cleared a little of sand. From their manifest connection with Δ^2 I expect they are the overseers houses built ~~at~~ put up during the building of the Δ ; & it would be highly interesting to clean out a few of the rooms. Then back to breakfast. N.B. There is a lot of ^{3 or 4 cent} quartzite, which is used elsewhere for whetstones, all piled lying in a heap by this overseers corner, & among it I found that bit of a head over life size; ? are these fragments of statues smashed by Cheops & Chephren & used for whetstones? I cannot imagine any one carrying fragments of statues to that out-of-the-way spot in later times. After breakfast to Δ^2 . Here I measured all that I could, except lengths of passages which I did not think worth while trying. The coffer is a very fine piece of work, better in execution than that of Δ^1 ; inasmuch as there are no traces of bad drill holes, only one bad saw cut, (& that on the bottom) & the surfaces everywhere polished finely except the bottom, though the sides were completely built around.

The dimensions are { out 103.68 41.97 38.12
{ in 84.73 26.69 29.59

the average variation is .04 <(I took 94 measures of it in all)>. On the bottom is one saw cut run into deep, & backed out again ~~which I took a cast~~ of which I took a cast. Half of the bottom has had the saw lines picked out, & is of uniform depth (within .01) but the part not dressed is too small by .20, maximum in bad cut.

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The chamber is also beautifully regularly excavated; I made it (296)
 E 195.8 N 537.9 } so that it is quite as regular as the Kings
 W 195.9 S 557.4 } chamber. High 206.4 to beginning of slope roof. I also measured
 the lower chamber. On coming out I found it was too late
 to do inside of Δ^3 , as it was cool, with a pleasant wind. So I
 set up theod on a station inside of the NE corner of Δ^2 on a
 step, & fixed position of station down on socket floor. Then
 down to the tomb, left some things, got a spade, & cleared out
 rubbish from SE socket of Δ^1 . I then took planes of faces on
 to this socket floor. I have now done this again all round, 75
 estimations in all; the new results (barring small corrections for
 socket sides curvature on NE) are, reduced to pavement level,
 by top of Δ

	N on NE	E on NE	E on SE	S on SE	S on SW	W on SW	W on NW	N on NW
across mid face	64.0	69.7	69.4	69.3	57.3	52.6	57.7	66.4
as near base as possible	62.5	67.1	67.5	66.0	52.1	56.0	56.8	63.4
I should adopt	64	69	69	68	52	55	58	65

for I reckon the estimation close to base as clearly erroneous,
 owing to hollow of every side being greatest at base, & corner
 being broken away, making it thus ~~broken~~ looking
 upwards over the rubbish heaps. It is striking how parallel all the
 sides but the S., are; N 64-65 E 69-69 W 55-58 S 68-52.
 I have not got the sides of core as previously stated, only the angles
 were sent, but I think these better figures do not give such
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 diagonals are clearly 2 or 3 inches under 100 at the bottom, & all
 the sides slope. Then back to supper, reducing observations,
 wrote this, & to bed about 12 1/2. This heat, never under 80°, &
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<= 9 1/2 x 20.618 = 27 x 20.654

± 5 ± 9>

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	N on NE	E on NE	E on SE	S on SE	S on SW	W on SW	W on NW	N on NW
by top of Δ	64.0	69.7	69.4	69.3	51.3	52.6	57.7	66.4
across mid face	62.5	67.1	67.5	66.8	52.1	56.0	56.8	63.4
as near base as possible	72.5	70.2	74.0	72.2	57.0	59.6	63.3	63.5
I should adopt	64	69	69	68	52	55	58	65

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week with Ali; also my biscuits, jam & chocolate are all
 at an end, & I do not want to have to get more stock in.
Sunday 22 May. Got up very early; after breakfast, reading,
 &c, I had a talk with Ali; & considering & arranging
 several matters which I must do before I go. I hope
 now that I shall get off tomorrow even., or Tuesday morn.:
 but I leave undone a lot of things I wanted to get through;
 however I suppose I always shall feel that there is plenty
 more to be done whenever I go, & I hopefully look on this
 leaving as only a temporary run home for a few
 months. We must if possible be out again by middle
 of October, so as to get the fruit season, & have all the
 best cool time for work. Smyne looked in in the
 afternoon, & pressed me to come & dine, or have coffee
 at least, with him; but I assured him that I had no
 sort of time for it, & that Omar & Abdurrahman had
 both been refused, so that I could not now go to him.
 If I went to any, I must make a round of it; for Ali
 would be sure to feel bound to entertain me, & then
 Sheikh Ibrahim & probably also Abu Talib would
 be equally difficult to refuse; & every case would
 require a sequel of some handsome sort of bakhshish,
 beside thus swallowing up a good part of every day for a
 week.
Monday 23 May. Out by 7½, to Δ^3 ; there measured the four
 lower courses at each corner, took level (by vertical mirror)

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Monday 23 May

Out by 7½, to Δ^3 ; there measured the four
 lower courses at each corner, took level (by vertical mirror)

of rock found in digging, or of fruitless bottom of digging; & also took carefully the distance of station marks inside the meanplace of each face, & their connection to portions of casing remaining in one place. Then to slope stones over Δ^1 door, measured plane of them, which is just as in C.P.S. plate. Then took angles of trial passages, which are just as Δ passages. Then back to tomb by a little after 10. Had breakfast; & finished on packing up. By about 3 $\frac{1}{2}$ I thought I had just done, so sent Ali to hunt up a donkey; but I found by 4 that I must either go tomorrow or else leave finishing the boxes, as there was an hours work at least still to do. So I washed up, & came off with Abu Saud; meeting Muhammed coming back he took me in charge, but somehow Abu S. came also all the way to Gizeh, 5 miles. There as it was late for them to return I was transdonkey'd, & came up to my old quarters at Hotel d'Europe. I have not such a good room this time. Then out to dinner, & then as it was late, I did not go to Dr G., but looked in on Melville at Sheppard's; fixed to go to Bulak Museum tomorrow aftn.

Tuesday 24 May To Dr Grant's, saw him for about $\frac{1}{2}$ hour. He looked over my 100 scarabs: I had condemned 12 out of the 96 as forgeries, & he says 17; but he is reckoned over sceptical by Mr. Chester & others. Then he gave me letter

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 from home, had been much puzzled about getting papers but no letter. Then I had my hair cut, & went up to Citadel: going up the narrow winding lane cut in the rock where the Mamelukes were massacred. The view is very fine all over Cairo, & with a pleasant wind & some clouds it was really delightful. The whole stretch of desert is well seen, from N. of Abu Roach down to Dahshur, all the Pyramids shewing finely. Did not see anything looking particularly old, or worth measuring, though the Citadel dates from 1160. Then down, had lunch, & to Sheppard's where I met Melville, & we walked off to the Bulak Mus. I looked at the things carefully, but the absence of all labels (except on a few big things that need them less) & of all arrangement of the scarabei or naming of them, is very provoking. It closes at 5, so we came back. I came to my room intending to go out again to the rubbish mound, but I felt so done up, that I sat & cooled for an hour, & then went to dinner. By 8 I went to Dr G's again, as he told me that Mrs G. could tell me most about steamers. They had not begun supper, instead of having ended as I hoped, but Mrs G. sat me down, & I had a talk until the Dr came in, about an hour late. It seems that there is nothing better than Moss; the others to Southⁿ, going from Suez, where I must waste some time, as there is nothing to do, as at Alex^r; & also costing about 7£ more. Also steamers are full now so I must write immediately,

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take passage if possible in one sailing about middle of ⁽³⁰⁰⁾
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 Prof. Hamilton Smith & Sydney Hall, & I shall be getting some
 for myself. I mentioned that I could not do it just yet as I
 had left my papers locked up in my trunk, & was short of cash;
 so he immediately offered to lend me £10 or what I might
 want, as it would save an extra journey to the Pyramids.
 I thankfully accepted his offer, & gave him an I.O.U. for ^{£6.} ~~£10~~
 In fact I was rather in straits, & afraid that I should need
 to go over to Δ before I went with the cart for the things.
 Then as the Dr. was coming my way he drove me down to the
 hotel. Wrote this & to bed about $\frac{1}{4}$ to 12. I was amused at
 seeing a Muhammadan (several of whom came into the restaurant)
 quietly & quickly mix a glass of claret & water, & drain it to
 the last drop at once so as not to be observed by the strict
 Muslims.
 Please send sheet about Casts in Δ to
 Sydney Hall.

As I find the mail is gone I continue here
Wednesday 25 May I intended going to Memphis today, &
 had said so, but I felt so queer with a sore throat that I
 settled after jumping up at 6 $\frac{1}{2}$, that I had better turn in again.
 So getting up rather late, I then went & looked over a large
 quantity of Photos of the best man here, selecting in all

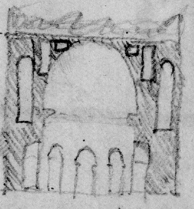
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 & Sydney Hall, presents to friends, & ourselves. I was very
 glad to find photos of the best things in the Museum; there
 is not a good set of the Pyramids; I also got some of the
 best Arab architecture. Then had a stroll till lunch
 time. After lunch back to hotel for my old bag. Sat
 & cooled a bit, & then out again. Among the many
 queer things one sees, I was struck with a man driving
 a donkey laden with melons; the driver had a large
 crimson turban on, & on that he was carrying a round
 green melon as big as his head, turban & all. I saw the
 two fine gates of 9th < 11th cent^y, Bab el Futuh, & el Nasr: the
 style of parts - particularly the rosettes around the arch, all
 varied - ~~is~~ is very much like our Norman, which
 seems almost as if copied from it. Then I went to see
 a part of city walls from which the city has long since
 contracted, leaving them ruined. They are very interesting, &
 shew some curious features, such as a dome in a round
 tower with galleries around it, thus - 
 & a small dome roof with spiral line
 of stones. These walls prove the age of
 much rubbish found connected with
 them, & shew ribbed pottery to have been in
 use till at least the 15th cent^y. I also picked up a batch of various
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Cairo, XXII