(3)

12th Dynasty; the only Old Egyptian thing beside the $<\Delta$ &> & labyrinth in the Faium.

Monday 3 April.

At 1am I was stirred up by a native being shewn into my room, but he objects to it, & backed out, finally taking another room. I had to get up three times in the night, to clear out the fleas, so was rather disturbed. Up at 6 ½. Down to Mason Bey after breakfast. Off about 8 ½ on camels, the roads being now practicable again. We went down to the "ancient dyke" as Linant calls it, which bordered Lake Moeris, according to him, but nothing clearly ancient is to be seen about it, the wall on it being clearly Arabic. I took sundry photos there [, , , , , , , , where we stopped for lunch. I was rather sickish owing to a greasy omelette &c, &c, & walked most of the day. We went on to the tomb of Shekh Abu Nur (not ancient) & struck over a long stretch of desert plateau, which ended in the broken steps of strata, & descended over scrubby ground to Garak, which is the oute farthest village in the cultivated land. We got there by 7, in the dark, & went through the narrow lanes of the village in search of the shekhs house; the camels scrubbing their heads against the mud walls, & the dogs running along the roofs barking just at the level of your head. There was a good moon so we could make our way, but the shekh had gone to Medinet to pay his respects to the new Mudir, & the people were not at all friendly. So at last we camped just on the S. side of the village, at about 8 1/2. Had a long talk with sundry Arabs about the neighbourhood, roads, distances &c: & to bed by 11 ½.

Tuesday 4 April.

Up at 6 – my bed consists of one blanket doubled between me & the ground, & 3 over me; but I got quite accustomed to be punched with pebbles before our

12th Spranty; the only old Egyption thing bride the labor an 3 April At I am hour sterred up might; to chor out the clear, so was nothing Disturbed . Up at 6 2. Down to have Bey after brushfast. If about 8's on causely the road being now preclicable again, becwent down the ancient ryke as Inhusting clearly ducient is to be seen about it the wall out being clearly trabic. Ital suntry photos there where me stopped for land. I was nother sideigh owing to a green midelle to to + walked most ofthe day. we went on to the touch of shehl Abu New (not ancient) or struck own a long stretch of desert plateon, which suded in tim broken steps of thate & seconded over sembly ground to farak, which is the acts farthest village in the cultivated land, be get there by 7, in the Jarle of went through the narrow lane, 1th villagen search ofthe shelles house; the country serubbing them bas against the must wall, 4the logs maning alongthe roof barling just at the level of your head. There was a good moon so we could make her way, but the shelch had gone to would to pay his respects to the new mudir, the peple were not at all friendly. last we compet just on the 5. side of the village, at about 8 :. Had a long talk with many souls about the neighbourhood, road distances or: & to bed by It. Wesday & April . Upat 6 - my bed consist of our blanket Soubled between me the ground, & sover me; but I got just accustomed to be punched with petbles before our

trip finished. Then we had dea a long talk about quides by one taking two fellows at 2 ifre a day each, though they asked 22 at first. I went round the village, which a set of doservations from the high wall of rubbish that sum for late Roman town; the the potsherds con walls. Outher the for omals held are two lineston I carnied hearon keys large ane out all day, slung as shoulder taking readings for altitude constantly; als ratures. The count towns tered not being over menthe places assigned to loady Regard was moyen by humant, I were told by our guides that we way to these objects your for mainly because they been wother the party back while I walked on two will, farther W. into the bottom of a vally to get its beft by aneroid; it appears thus to be (they may about 12 puller 5. of the 5. and of Richelt Kurum)

trip finished. Then we had an a long talk about guides, ending by our taking two fellows at 2 ½ frs a day each, though they asked £2 at first. I went round the village, & took a set of observations from the high wall of rubbish that surrounds it. We got off by 10, stopped at 12 at the limit of cultivation to pick some green stuff for the camels, & then up a long hill side for some miles, over an enormous site of a late Roman town: whe the potsherds cover the ground thickly, nowhere space a hand breadth between the chips, for about 3 miles, & in many places heaps, & brick walls. On the top of the small hill are two limestone columns. I carried Mason Bey's large aneroid all day, slung on my shoulder, taking readings for altitude constantly; also carrying sextant & prismatic compass for position observations. The camels turned tired not being fit for desert work, & we had to stop after 14 miles, in the Greater Wady Reyan, by a curious cliff about $\frac{250}{150}$ ft high, with a slip of rock cracked off it \Re We walked up the hill, measured a base & took observations to distant points around. We had already over run the places assigned to Wady Reyan & Wady Moyeh by Linant, & were told by our guides that we were <still> only half way to these objects of our journey.

Wednesday. April 5.

Our camel men would not go on, mainly because they knew nothing of desert, & were scared about supplies for the camels; also they did not relish the travelling; so considering all the difficulties, real & imaginary, W. was compelled to decide on turning back again. We then went up the hill again, & I took aneroid; after looking at some points W. went back & started the party back, while I walked on two miles farther W. into the bottom of a valley to get its depth by aneroid: it appears to be (this was about 12 miles S. of the S. end of Birket Kurun)

I far below Mile level, hence if the Fayme was allowed to be filled by the Vide it would be an arm ofther Take. There after taking a series of bearing I hurried back feiched of the track. Atte camels of followed them until they attaken formely outer the farity about 4 miles ind a base of troth set of theodineading to fix distance Shills or: Atten a to forale . I only note for a my could got bogged in a marshy bit , I come down falling: I grated for warons are roid, but got atogfalling. got to garak by 4 = , + af all along it , + water about 75: 20 Had a long ushed a head in a haze of hot sand

far below Nile level, hence if the Fayum was allowed to be filled by the Nile it would be an arm of the lake. Then after taking a series of bearings I hurried back, picked up the track of the camels, & followed them until they stopped for me at on the top of a ridge about 4 miles from camp. Then W. & I measured a base & took set of theod: readings to fix distance of hills &c: & then on to Garak. I only rode for a mile, when my camel got bogged in a marshy bit, & came down almost falling: I quaked for Masons aneroid, but got off safely without my falling. Got to Garak by 4 ½, & after seeing tent up, went for a bathe with W.; we found a perfect bathing ground, a fair stream <1 ½ ft deep> sand bottom, vertical banks flat grass all along it, & water about 80/<75>°: so I had a long soak. Back to supper, & bed by 9: walked about 18 miles.

Thursday April 6.

Off about 9 1/2. A khamseen came on,

& we pushed ahead in a haze of hot sand, wind up to 91° & barometer falling 1/20 inch in an hour. We stopped at Tutum, & took our lunch into the house of the surveyor there, where W. had been before & knew the soldier servant, a nice fellow. Then after getting a guide, we started for Kalamshá; W. catching the surveyor & having a talk to him on the way. The sand storm was bad, & the walk anything but pleasant. On reaching Kalamshá the shekh's servant would not shew us the house, & tried to put us into a little dirty room (dirty for Arabs) out of the way; but W. refused & at last we got a visitor's room in the shekh's house, or rather courtyard, but the upper & better room was filled with the engineers < surveyors> things. While Lorenzo cooked dinner, we went round village guided by an intelligent fellow who shewed us in all 6 blocks of ancient granite, & much limestone, which must have been

home some site. After during all about wary Reyon, Shiele is good Friday our think boy turned up & action interpreten re set It. he hassed the set

brought from some site, after dinner a long talk with our Arabs about Wady Reyan, which is a sort of small oasis.

Friday April 6

Good Friday-

Off on foot by 8, leaving camels to go to Medinet. W. & I went with a grandly armed guide up to the most ancient convent in the Faium up on the side of Gebel Sedment []. We had been told of it by our Coptic boys, who pressed us to come up & see all the people, as all the Copts who can, go up there for Easter. We found a large assembly there, & were well received [**a**, **b**]; our three boys turned up & acted interpreters. We went to the church, but it contains nothing before the 4th centy I think, & even all that is re-used; a few capitals & shafts being probably of that date, & some Byzantine pilaster capitals irregularly built into the wall, probably much later. After general talking, W. secured the loan of a donkey to help him down to Howara; & we set off. We passed the site marked "Ruines" by Linant, but it is only early Arabic. On crossing the Bahr Yussef in a ferry, & reaching Howara we discharged our guides, had lunch in shadow of the shekh's house, & then engaged two men to guide us on to Medinet. First, after a roundabout, we reached the canal, & were carried over by our guides; the water being over their waists. Then I carefully looked over the Δ of Howara, & the ruins of the bi building by it, which looks to me far more like the remains of the labyrinth, than the brick buildings there, so called by paving two layers thick is being smashed up for building; the stones are so large that old Vassalis of the Museum reported them as being rock, & so quarrying is allowed; but

(4)

The farmy is reported by natives

Mason Bey saying otherwise I examined them, found joints, pick dressing of stones, & red quarry marks. So I must stir Maspero on it. How the Labyrinth itself has disappeared is evident, from the immense heaps of chips about 10 ft high, of fine limestone, which overlie all the pavement. The paving is reported by natives to extend all over the site, & under the Δ . I took photos from top of Δ of all the site $[\bullet, \bullet]$. The brick wall chamber called the Labyrinth, by Lepsius, look later to me, & have a filling up of Roman pottery. I hear that the Bulak Museum people quite abandon its identification. Then after being carried back over the stream, we walked on to Medinet. Mason Bey who had been out shooting overtook us, & W. was glad of his donkey: so I walked back with M. B: got from him his barom. readings <at Medinet> during our journey, but unhappily he only read to 1/10 inch, whereas I read to 1/1000, or say 1/400; hence his readings are not of much use. Then onto Greek restaurant, & had dinner with W.

Sat. April 8.

Off with W. by 8.0 train for Cairo. We reached Bedrashin, where I had appointed with Ellis to b meet me, at 12, & I got out. But I could not hear anything of Ellis, so after enquiry at the ferry, I took a donkey for my things, & set off for a 14 mile walk to my tomb; this is the fourth time I have walked along the desert edge from Sakkara to Gizeh, & a very heavy walk it is, owing to the sand in many parts. Got in about 5, & found that Ellis was over in my tomb <I had lent him my second key in case he wanted it.> He came in at sunset, & told me that he could

subject Hassan when he wanter hims, so fell up time by coming out here to thetal again. Harrow is himen wishes thelp we in work on coffee 19 a furrous khauseen day, sand in he kindly found to to the offer; sin the afternoon we went in with the big collips of grages the tichnen Atter S. End abover 3 inches all over; & finding it so mighty imegulin (varying 8 i to cope again, with a strok of hits of hourd, two to avoid hours up the grante. Hum with the above prizing of the effect but soon found - two file of wood broked too risky to appoint to on ; here a butch. Then I herewhood out the greavation could be ft deep under Men & est out a long block of stone about I cut which was just night height for after testand a. Then we went on + raised it to about 7 in over bloor. E. thought the steel tubes which too resly tostand it on , for few of collapse willing on

not get Hassan when he wanted him, so filled up time by coming out here to sketch again. Hassan is however engaged by him from tomorrow onwards, but as he wishes to help me in work on coffer, he will send for Hassan up here for a day & go on his sketching bout beside the Nile afterwards.

Sunday April 9

A furious khamseen day; sand in showers, nothing visible over a furlong, & a gale at 95° to 100° blowing so that one could hardly keep ones feet. As Ellis intended going tomorrow, & cannot spare more time on any account (as he must get some certain work done & return in good time for London season, & appointments that he has,) he kindly offered to do the coffer; so in the afternoon we went in with the big callipers & gauged the thickness of the S. end at every 3 inches all over; & finding it so roughly irregular (varying .76 inch) we did the other sides at every 6 inches all over. Then coming down for dinner, we went off after it about 8 ½ to coffer again, with a stock of bits of board, two crowbars, anvil for fulcrum, & bit of sheet steal to avoid bruising the granite. Then with Ali alone we set to work prizing up the coffer; but soon found I that two piles of wood looked too risky to support it on; hence a hitch. Then I descended into the excavation about 12 ft deep under coffer, & got out a large block of stone about 1 cwt which was just right height for coffer to stand on. Then we went on & raised it to about 7 ½ ins over floor. E. thought the steel tubes looked too risky to stand it on, for fear of collapse or tilting during

the wrighting about of levering the collen up: x) bid not ful at all happy about them: 20 they were notwered, & finally the after stood on one soplaced as to still out as little of the surface as possible. But the affer is rather a low me : + the then would what. tripod need on some vod again, butty hereit on it (thus avoiding any question of grown of risk inthe most infartant point); of the trol tag refetter from a hore metal plane to bottom feller inside all over all every 6 inche. This took till about 1 i am. and cleaning out Everything but furguest from underit: and (the only trum I see did such a thing) I challed on the bottom of the offer "Lifted Illy putter name & date on the floor under it out 3 - hardly work, but I did all the head! is Ellis up avon aptro. Is it was an Chamseen or rather the tail of the poseums

the wriggling about of levering the coffer up: & I did not feel at all happy about them: so they were not used, & finally the coffer stood on one stone & two piles of wood, so placed as to stop out as little of the surface as possible, <done about midnight.>. But the coffer stone is rather a low one; & the theod would not see under coffer by ½ inch; after trying to raise it a little more we had to leave it, & put theod in a broken hole in the floor. There I read off the offset from a horizontal plane at every 6 inches all over the bottom surface; then marked a pencil mark exactly on a rod <at the theod level> which E. held fixed; then raised theod onto tripod read on same rod again, putting pencil mark on it (thus avoiding any question of errors of reading in the most important point); & then took heights depths from a horizontal plane to bottom of coffer inside all over at every 6 inches. This took till about 1 ½ am. Then we lowered the coffer again onto its stone, first cleaning out everything but fine dust from under it: and (the only time I ever did such a thing) I chalked on the bottom of the coffer "Lifted 9 April 1882 W. M. F. Petrie", Ellis putting his name & date on the floor under it. Then we finished it off about 2 ½ am. & returned to tomb. I got to bed about 3 ½ am, <Ellis & Ali both so sleepy they could hardly work, but I did all the reading, & took care against mistakes.>

Monday April 10

Did not sleep after 6, so got up about 6 ½. Ellis up soon after. As it was another khamseen, or rather the tail of the previous day

it was uncless for & togo on, so he stopped. tout. His booking boy brought out in notes received safely. I think the nights to this backing will take some days. then to leave points unsettled have apall this journal from notes, du into we writing, for a fly on talklish places is warrying

it was useless for E. to go on, so he stopped in tomb. His donkey boy brought out my two weeks letters, for which many thanks to Glebe & Crescent.

The <2 > notes received safely. I think the reply to this mail had better be addressed to Cairo, as I hardly expect to be off before 2 ½ weeks. Ellis is going down to Helwan, &c, where I much wish to join him, for work on quarries; & this will take me till probably 8 days hence; I have also some bits to do here still, & packing will take some days. It is better to finish here as thoroughly as I can, & skip matters altogether, than to leave points unsettled here.

I have written up all this journal from notes, during the khamseen in my tomb, surrounded by thousands of flies, who take refuge from the heat; hence some erratic points in writing, for a fly on ticklish places is worrying. The photos sent by white of Reading was of Ad^m Fowler, & will be found in the Flinders cupboard, in a small deal box as sent: if it has not been sent to Shilling Lane, about which I forget—

29. Cairo-

M¹⁵ Petrie-8, Crescent R^d Bromley, Kent-

monday, 10 stpril, writing of journal in anoming, sent mestay 11 April air rather cleaver, I so Ellis retermined to of the ready for work, leaving her in the morning. Robacing Nor menones all the ofter noon: offsets from mean plane felfer bottom mean the chiers of coffer bottom is 6-89 ins; Extrem you mean planes , outside . 17 timer x . 14 thicker; inside 26 timer + .20 tucker. Nour of the huess .27 thicker .31 themur. the theclever / siles as califered is mean 5.67 N 5.88 5 5.90 E 584 W. Extreme variations on N 5:48-5.96, 5562-638 E 5.71 - 6:13 W 5.59 - 6.17 . Here are at about I wich own bottom, but bother thicken rafeibly at bother + are 1 to 2 more there. Developed 24 pletos of Farmen trip in aren; some of them are very good, average four, I but few poor; on on the great coul surrounded with jordens of alus is very beautiful, Form is lite in Atter place the standard fromming water werywhere, the strange point that being branched up in exactly the plant way to ordinary I prose to the on the of roller; mails sticking out about a well ables comes has a silk thread statteled over their heads; thus forming a rectaigh of alrought stretcher, silk therear. Then a planet tot was hong overthe edge Ithe frame, it, distance from the threes noted, or then the offer taken from it all drive effer.

Monday, 10 April.

Writing up journal in morning. Sent it off by the donkey boy of Ellis's, who was going to Cairo. Reducing coffer d measures in evening, & developing 17 photos of Faium trip.

Tuesday 11 April

Air rather clearer, & so Ellis determined to go off & be ready for work, leaving here in the morning. Reducing coffer measures all the afternoon: there is a lot to do in reducing from offsets of level plane to offsets from mean plane of coffer bottom, i.e. eliminating slight tilt of coffers position. The general result is that mean thickness of coffer bottom is 6.89 ins; extreme variation from mean parallel> planes, outside .17 thinner & .14 thicker; inside .26 thinner & .20 thicker. <max^m> varⁿ of thickness .27 thicker .31 thinner \} .58 total varⁿ

General on face <thickness> .10 more at S. & .10 less than mean at N. end. The thickness of sides as calipered is mean 5.67 N 5.88 S 5.90 E 5.84 W. Extreme variations on N 5.48–5.96, S 5.62–6.38 E 5.7–6.13 W 5.59–6.17. These are at about 1 inch over bottom, but bottom <sides> thicken rapidly at bottom & are .1 to .2 more there. Developed 24 photos of Faium trip in even; some of them are very good, average fair, & but few poor; one on the great canal surrounded with gardens & palms is very beautiful, the steep banks of the stream giving it an un-Egyptian look. Certainly the Faium is like no other place; the abundance of running water everywhere, & the strange point that the smaller the stream the farther it has to run; the water being branched up in exactly the opposite way to ordinary streams.

Wednesday 12 April

<Very fine & clear, & much cooler.> Finishing coffer measures in morn.

Making frame to go on coffer in aft n . Into Δ by 5, & arranged frame

of wood to lie on top of coffer; nails sticking out about ½ inch at the

corners had a silk thread stretched over their heads; thus

forming a rectangle of straight, stretched, silk threads. Then

a plumb bob was hung over the edge of the frame, its distance from

the thread noted, & then the offsets taken from it all down coffer.

Hus the section was they other distance fromthe Longated the tothe affer levour at said point. This virtually surrounds the offer with perfect all over at every 6 inclus this occupied till 10's, Am metures head or or in more of elfer. Into A by 4; mensual inside virtual planes as the stouts de was done. His rear 8, Ihm huturn toupper. To morrow kgo theirs and frager on Sat ? Ellis will send up a doul Selet un to masara or trivorashin. that he down und with the station must at Beds as weapoed, was that he with time, care of morson Bey, as soon as he found that he could subterthere as

Thus the section was thus, & the distance from the horizontal thread to the coffer known at each point. [R] This virtually surrounds the coffer with perfect vertical planes, & from which offsets are taken all over at every 6 inches. After this is done, a 100 inch rod is laid on the top of the frame & the distances of the threads measured at each side: then the diagonals to give the angles of the threads with each other; but as they run round nail heads there is no corner, so they are measured thus: [R] exact inch divisions of rod brought onto threads, & distance from virtual corner measured by hand scale. This occupied till 10 ½, when I returned had supper & to bed.

Thursday 13 April

Partly reducing measures in morn^g.

Another very fine day. Altering frame in afternoon to do inside of coffer. In to Δ by 4; measured inside, by virtual planes as the oth outside was done. This occupied till 8, when I returned to supper. Tomorrow I go to Cairo: and I expect on Sat^y Ellis will send up a donkey to fetch me to Masara or Bedrashin. The reason that he did not write to the station master at Bedrashin, as we arranged, was that he wrote to me, care of Mason Bey, as soon as he found that he could not be there as we agreed; and the letter must have been lost, as I saw M/<M>ason continually before & after that time, so that he would have been sure to give me any such letter.

As to the sella Society Sayce has been the negociator with maspers, I is attogether horala hair in it, if I sould for I suggested as much when we talked of it; so if there is an opening for me there, I shall probably wear of it. At present, funds are nowhere 1. believe, & arrangements of course see what may be forth coming -This letter had better not be answered, as I I am martain Nather I shall return Alexa - Moss, or Port Said & British India, who go to London direct, 450 Jace We find there B. horis

Letters rec^d of April 6.

As to the Delta Society, Sayce has been the negotiator with Maspero, & is altogether <u>in</u> it; he knows well enough that I would have a hand in it, if I could, for I suggested as much, when we talked of it; so if there is an opening for me there, I shall probably hear of it. At present, funds are <u>nowhere</u>, I believe, & arrangements of course wait to see what may be forth coming –

This letter had better not be answered <at any length> as I may leave Cairo before the return mail, & am uncertain whether I shall return via Alex^a & Moss, or Port Said & "British India", who go to London direct, & so save fare & goods from L'pool –

We find these B. Indias come in every Wed^y & come often. <u>6. per mo.</u> so he may arrive May 17– but I dont think he can be so early –

30. Cairo -

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<u>(1)</u>

Friday 14 April

Off by 7 ½ for Cairo: a strong W wind blowing which sprung up quiet/<te> suddenly, & made a sand haze. Went first to Museum to see Maspero, but he was out; so then up to Dr G.; saw him just before going on his morning round. To post, & then sat in Ezbekiyeh for a while reading Pub. Op. as I had to wait. Then dinner at restaurant at noon, & to D^r G. just to be polite to M^{rs} G. before their dinner. After a little talk I left when they went to table, & rode down to Museum again. Saw Maspero, & shewed him all the best of the antikas I had got (all <that> costing 5 frs or over) & offered to le exchange any that he might wish for Museum. He did not however wish for any of them, though I thought one of the tablet he would have kept (I took photos of <2> large stones); so thus I stand straight with him about exporting them, but I find that he is not <quite> square with the authorities quite himself apparently, as he refused to detain or seize antikas unless wanted for the museum; whereas the officials (ministers & customs) wish to keep all they seize for somebodys benefit, somehow. I suspect Brugsch has a hand in this move, finding Maspero's policy too liberal to suit him. M. told me of more than one case in which things were sent to him that he did not in the least want, & on his saying so he was rebuffed by being told that he was not to judge of that but to keep things. He recommended me to carry little things away in my pockets & I asked about the relative safety of Alex^a & Suez customs; imagine consulting the chief of the museum, in whose interest rules are supposed to be made, as to the best way of avoiding them! Thus if any of my things are seized M. will not be offended, & I shall probably get them after some

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interest rules are suffered to be made, as to the best way of avoiding them! Thus if any from their are seized on will not be offended, & Ishall probably get them after Jone

Jelay; but Ishall give & g. the largest, a shower of Ptal 23 delicated by and architect of memplies, Ptalimes, h. said that if I would get it to Turber flad helter do so; a if he had it les stone was required! I think he has nowed the somewhat mutat force plumate of the maniette steine a moderna is included in the distilu, of the national Party ; vis accordingly sumbled of thewards out their energy. Such at least is the impression be gave me from what he said. He made there woe ful might in technology owing our talk ; supposing that a pacture surface / basalt was some because it was a flat fraction, i.e. slaty: 2 supposing a vitrifind grown past was the same as a class of forgenies in plaster about green: 3 remarking that it was a first the trades had cleaned a bronze by sorrosping, whereas that cleaned it supply entirely by cracking the scale off it by gutte blows, leaving the surface guite smooth undermeath. Eleg. little slips suggest that he is monday book student, than acquaints with the purpies of outshows. After all his said Low whash him for a perminent trafert; first because it was rather a stretch to ask forit for anything funglet presen on chose tradict cover; & secondly as be und setherhave to propen straight out that his authority was useless, or if he gament he night be suchward about to with the authorities. He decidatly meconments me to run the cargo as well as I could; & if the they were seized &sent their he wastatu one or two little things for forms sake, thoughthat he had taken what he wanted, & networ the rest. I wenter all then as it illustrates the disorganization soisting here now. Then after leaving him, about ich he was most feshit, &a compensed. me apstain to the steamen's side (for he lines on his versel)

delay, but I shall give Dr G. the largest, a shrine of Ptah dedicated by an <a royal> architect of Memphis, Ptahmes [**Q**, **Q**], M. said that if I could get it to Europe I had better do so; & if he had it, he might be asked some day if he wanted it, if building stone was required! I think he has none of the somewhat brutal force of character of old Mariette; & being a Frenchman is included in the dislikes of the National Party; & is accordingly snubbed & thwarted at their mercy. Such at least is the impression he gave me from what he said. He made three woeful mistakes in technology during our talk; ¹ supposing that a fractured surface of basalt was sawn, because it was a flat fraction, i.e. slaty: ² supposing a vitrified green paste was the same as a class of forgeries in plaster colored green: 3 remarking that it was a pity the Arabs had cleaned a bronze by scraping, whereas I had cleaned it myself entirely by cracking the scale off it by gentle blows, leaving the surface quite smooth underneath. These little slips suggest that he is more of a book student, than acquainted with the physics of antikas. After all he said I did not ask him for a permission to export; first because if/<t> was rather a stretch to ask for it for anything I might possess or chose to make it cover; & secondly as he would either have to profess straight out that his authority was useless, or if he gave it he might be awkward about it with the authorities. He decidedly recommended me to run the cargo as well as I could; & if the things were seized & sent to him, he must take one or two little things for form's sake, to say that he had taken what he wanted, & returned the rest. I mention all this as it illustrates the disorganisation existing here now. Then after leaving him, at which he was most polite, & accompanied me upstairs to the streamer's side (for he lives on his vessel)

I wont our tose the Deir El Boliani they at the runse for Shawnever yet seen one of them; touy disquit it was Irday, & museum shut accord So as bridge was not open to traffic get, healles had to Carso from Bulak, show hair out, then back to A. & bitter all N. wind blowing, but the said subsided as it changed from wet N. To trop from 98° on Sunday to 57° on Forday is a shorp change. Suffer of the by 10. S dans y 15 April past as Illiver on many both water at & a douber boy come of from Illis to fetch we , as we had agreed. So after breakfast thanking but of at 10. we went all cross country between the lills the Nile of or a longway alongthe railway, which is exemptedy's road here By 2 I reached Shell Otman How Ellis; my feetwere Daninged rather, by therough inside you pair of shows Sinds had begun to be compose; the anoth leather lost, & the posteton she crading for & meets till 3, for it was 11 miles walk. then wentwer to the guarries of Turner just Month, outle East bench of the Nile about 2 miles of the ferry book roces attent to by a find who will may et it out ofthe total harborn against the wind & then how troop the stream fine times tacking to get perban island; at last he stapped at a shoul close of the main shore of Stucked upmy trusters twaded the shoal, wenter our half up the thigh, waking my transens without, However they don't in a short time . It wont up to the cliffs two young Jellows you up o joined in town: I would not shake them of I two rather doubtful oftheir intentions; but their bject was morely curiosity, or after a while one informed me that it was

I went over to see the Deir El Bahari things at the museum for I had never yet seen one of them; to my disgust it was Friday, & museums shut accordingly. So as bridge was not open to traffic yet, I walked back to Cairo from Bulak, & had hair cut; then back to Δ . A bitter cold N. wind blowing, but the sand subsided as it changed from W. to N. To drop from 98° on Sunday to 57° on Friday is a sharp change. Supper, & to bed by 10.

Saturday 15 April

Just as I threw out my bath water at 8, a donkey boy came up from Ellis to fetch me, as we had agreed. So after breakfast & packing I set off at 10. We went all cross country between the hills & the Nile, & for a long way along the railway, which is everybody's road here. By 2 I reached Shekh Otman & found Ellis; my feet were damaged rather, by the rough inside of a pair of shoes which had begun to decompose; the smooth leather lost, & the pasteboard sole cracking up. So I rested till 3, for it was 11 miles walk. Then went over to the quarries of Turra just opposite, on the East bank of the Nile, about 2 miles off. The ferry boat was attempted by a boy, who <at first> could not get it out of the little harbour against the wind, & then had to cross the stream five times tacking to get past an island; at last he stopped at a shoal close to the main shore, & I tucked up my trousers & waded to the shoal, but in going from that to the shore it was deeper water, & I went in over half way up the thigh, soaking my trousers utterly. However they dried in a short time. As I went up to the cliffs two young fellows ran up, & joined on to me: I could not shake them off, & was rather doubtful of their intentions: but their object was merely curiosity, & after a while one informed me that it was

the 35th of the month to which I said, yes of the Frank mouth " so the that hour all safe, as it should be was a superior sort of fellow ? tube lend feller of the base out. S. I had a look at some the him hills, taking one ofthe doubley boys! Butter rescal was so coon abour not thrill when wenter that he actually those ower water gullete: I growthe top opter cliffs would mily Then where not granial coter the halls Attry warry are prof about you a soo pl square, with fillers about 30 fl of without branches, these are 20 t 30 fewils of 30 to 40ft high, runing in 300 or 400 ft: Others branch & join, so that you can never tell what may aft occur on guling one. Is and the celebrated stone on, sledge drawn by open; it is after bottom for tablet rette in 22 yr 1 Aalmes I of xVII Spring. There is also another exprisite little tablet opene king whind blue in an galley over.

the 15th of the month to which I said, "yes of the Frank month" so then he pulled out an almanach & shewed me. After this I knew that I was all safe, as it shewed that he was a superior sort of fellow, not a lewd fellow of the base sort. So I had a look at some of the galleries, & copied a lot of inscriptions. Then back, & found a boat just handy, come over for an Arab woman. Had dinner & to bed.

Sunday 16 April

Went over & had a long ramble all about the Turra hills, taking one of the donkey boys. But the little rascal was so cross at our not finding a road down off the hill when wanted that he actually threw away the water gulleh: I got on the top of the cliffs & could not get down for a long way: even the tops of the valleys have a precipitous cliff round their heads: at last where the rock had given way over old quarries we scrambled down. The quarries here are amazing; th often a great domed chamber, about 150 or 200 ft diam^r, & 40 or 50 ft high, formed by the Arabs cutting away the pillars left by the Egyptians & the roof caving in & falling, thus

dotted lines=
original form.

[O, O, O, O, O, O, O

Then, where not quarried later, the halls of the quarry are perfect, about 400 or 500 ft square, with pillars about 30 ft square & galleries 40 ft wide between them. There are about 40 or 50 ft high. And most of this stone is of the fine casing-stone quality; so that I suspect the casing came from Turra & not Mukattam. Some of the galleries open direct to the outside without branches, these are 20 to 30 ft wide & 30 to 40 ft high, running in 300 or 400 ft: others branch & join, so that you can never tell what may app occur on entering one. I saw the celebrated stone on a sledge drawn by oxen; it is at the bottom of a tablet dated in 22^{nd} yr of Aahmes I of XVII Dynasty. There is also another exquisite little tablet of same king coloured blue in on gallery near.

I set of sade in my good time of boom to the shore with i will from our tent by 5/2. Here I wanted for a bout, but som a strong wind spring of olaving clouds of sand, the one would try tres or against such a breeze. There to any boatman to (ofthere are a rosen bout them) but they all refred, & left to home. Now them was close sugarion of them; they were wantering to felote back shell of Biorashen burns on the Helmany Turn water gesterday, (for dhas to ron the Jame place) Itoh of any trouser togin with. Ower on the little half hede while the boatmen got much the dich & chester away, some on jumping up every louinales slothing over the gide the if the fuerral par some stars setting & turing sleepy sweey, I holing up som the mast flying past the stars had oraged anchor. Jumping up Istood on the wond ward sid ofthe book which healed heavily with the breeze the rigging ready to get up it in case of an who foots onthe Will are wriched by slipping a see Isettling John with masts sticking above water. The boatmen gounded her head safely over spen over the appoint bank in a moment. Then I Much theat dinner thed.

I set off back in very good time & got down to the shore not ½ mile from our tent by 5½. Here I waited for a boat, but soon a strong wind sprung up blowing clouds of sand, & no one would try to cross against such a breeze []. Ellis offered 5 francs to any boatman to go (& there are a dozen boats there) but they all refused, & left to go home. Now there was close to where I waited a large double mast boat; & soon we enquired of them; they were waiting to fetch back a funeral party of a shekh of Bedrashen buried on the Helwan (Turra) side, & they would not object to taking me as well <though there were 60 in the party.> So I went off to the boat, & profiting by my experience of the water yesterday, (for I had to cross the same place) I took off my trousers to begin with. Once on the boat I knew I was safe to get over some time: but the wind blew a gusty gale, & the sand hid even the opposite shore sometimes. I sat on the little half deck, while the boat men got under the deck & chatted away, someone jumping up every 10 minutes & looking over the side to see if the funeral party were in sight. So we waited. At last having watched some stars setting, & turning sleepy I got down & lay on the inside of the boat, half asleep. I had been on board rather over a hour, when there was a shout & a sway, & looking up I saw the mast flying past the stars - we had dragged anchor. Jumping up I stood on the windward side of the boat, which heeled heavily with the breeze, & held the rigging ready to get up it in case of an upset; for boats on the Nile are wrecked by slipping a sea & settling down with masts sticking above water. The boatmen however rounded her head safely & we spun over to the opposite bank in a moment. Thus I got back to tent, dinner, & bed.

monding 17 April While getting of I am the form oclase the local which had crossed again in new has mentioned town: they were the great source ich I think and the till sides, which I think and the tiles which lines theovers. Hum to Berasten, when I fished up my downly boy whom I had sent on to get his front; tolk had secured another touch

went four tradferranean chamber. Partier of bottom of

Monday 17 April

While getting up I saw the funeral party, which had staid for the storm, coming down to the shore at 6 o'clock to the boat, which had crossed again in readiness. After breakfast I went off on donkey to Be Memphis. Here I set to work to settle the age of the various mounds by the character of the pottery, & was able to get a good notion of the matter. About half of it is of Greek, & Roman, date; but on the N. there is a large mound containing very good houses of Ramesside period: some of the houses are three floors high, the holes for the beams shewing plainly: their bricks are very fine & in good condition, & the walls very thick [**a**, **b**]. I picked up a piece of syenite, which one might suppose the Egyptians had sawn on purpose for a specimen; it has 4 sawn faces, & a saw cut across the only rough side. I spent about six hours examining all the mounds; on the S. side I found the site of kilns that D^r Grant had mentioned to me: they were the great source of the beautiful blue glazed ware found at Sakkara: quantities of bits of spoilt pots, stuck together by glaze, or overfired, lying about; & enormous amounts of very rough pottery, flat, with <coarse slaggy> glaze on one or both sides, which I think are the tiles which lined the ovens. Then down to Bedrashen, where I picked up my donkey boy whom I had sent on to get his food; & who had secured another donkey to carry my baggage tomorrow. Rode back to tent by about 5 3/4.

Tuesday 18 April

Up before sunrise, packing up. Saw Ellis off with all his baggage by a boat, going to sail down stream for a few miles & then land & take his traps up on his donkeys to the tombs of the Khalifs where he is going to paint. I walked & rode across country, getting in to my tomb about 11. Getting lunch & attending to various till about 3 $\frac{1}{2}$, when I went up to Δ . Went down to subterranean chamber. Put theod at bottom of

Entrava passage; 3 courtes, in sur of south horizontal pange 3 at 8 bying of shorizontal, & 3 at N. door of Subt. Chamber, No Ding in visible from No 3 + there : so sighted it on in line of with No (2). Thursdange is not our zineles out of line, which's wetter its wavynen, for it would about 6 inclus in And Then observed in signal in centra furtrame for causes 2 + 3. Unresult is that there is not our 5' show in making the bead of Then Hole levels of famys so as to connect them all together. meaning breathy theight of panys in going up, humany be some; still the will jut duck toward lyce. Then with the long wood Junearund the chamber. It is very anchoward todo, being hills of with stones; That to be on my int this position on had borand forward gut flat pushing on floor by well about 160 is but hiden by Earth: from cieli

entrance passage; <3> candles, (1) in end of South horizontal passage, (2) at beginning of <S.> horizontal, & (3) at N. door of Subt. chamber. No (1) was invisible from No 3 & theod: so sighted it on its line of with No (2). Thus S. passage is not over 2 inches out of line, which is within its wavyness, for it winds about 6 inches in & out [\mathbb{R}]. Then observed on signal in centre of entrance & on candles (2) & (3). The result is that there is not over 5' skew in making the bend of the passage $[\Re]$ or about 1 inch on 50 ft observed. This might be done by a couple of plumb lines about 100 ins apart, thus sighting them in the line up entrance & then in line on southwards horizontally. If so this error is about 1/6 inch on 100 ins & so <it> might be easily done as accurately as this in such a way. Then I took levels of passages so as to connect them all together. After this I took out the theod leaving it with Ali at the door, & having measured breadths & heights of passage in going up, I measured roughly the length of it by 140 inch rods laid on floor as I went down again; but the floor is so encumbered that nothing accurate can be done; still this will just check Howard Vyse. Then with the long rods I measured the chamber. It is very awkward to do, being piled up with stones; I had to lie on my chest on the stones, with only just room for the thickness of my body & then wriggle rods about with both hands, & to get into this position one had to crawl forwards quite flat, pushing with one's f toes & dragging by one's hands. At last I got it down thus N side 553.5 S side 554.1 E end 325.9 W at 100 from west wall 329.6. Walls far from flat. Maximum height, on floor by well about 160 ins, but hidden by earth: from ceiling to the top square of the well 198, to lower square 265; the well being thus $[\Re]$ a smaller well in one corner of a larger.

[R]

Having Down thin, of me and the South faringe (which is playand 19 being only again square of encumbered with stones in part) came out it 8 to x sound to apper. After that writing they Ato had about 12. I was automested to see how much the rain had Jour : it had cutout a groove about · bin wide + 4 delp in the rubbish laid on the floor of panage, slift a deep deposit of much inthe first horizontal panye, which was only just still enough to bear me; then I had run or into the chamber, & so int throll, which contained amongh to splash when a stone was thrown in - choing graftet from home for Bird. things in mon. And in aft to A. Set their levelles at apper 2000 I fromthe plug, so es to look up ascending france chalked months on suitable point of floor words, all of their of from falling. Then charling altitude of learning their free in a simult. He would be bolding an offset rod against ead ofthe floor marks, which I ved vister. On reading top he came one tilling it to the wall manks, their being damped in azimath ofrein attitud. Hum I grayed the straightness of these passages . neine the fig- being steeper it has about Hind vise abouton of asserting prossupe, seaffertis. In straightness offelow there is not over hinde smore in any fact of Esther passage; I in the wall about it maximum error. Then taking the of into Hings Ch. I set it up non to just sight overthe to of the coffer; then took land to six point insor letting, to come of to past measury + to find how much after was tilted when standing on the floor. Then toth level to point all round it on the ledge ist out, & to 6 points, original top: then friend higher Ait. Then had a vod held at about any so in all round walls, standing on floor these leveling floor meading absormatione the first course so as to level that also. It warries fourfully being

Having done this, & measured the south passage (which is plaguey being only 29 ins square & encumbered with stones in part) I came out at 8 ½ & down to supper. After that writing this then to bed about 12. I was astonished to see how much the rain had done: it had cut out a groove about 6 ins wide & 4 deep in the rubbish laid on the floor of passage, & left a deep deposit of mud in the first horizontal passage, which was only just still enough to bear me; then it had run on into the chamber, & so into the well, which contained enough to splash when a stone was thrown in.

Wednesday 19 April

<Copying graffiti from Turra for Birch.> Beginning packing & carrying small things in morn. Out in aft to Δ . Set theod levelled at upper end of granite plugs, so as to look up ascending passage, chalked marks on suitable points of floor & wall, all up this & Grand Gallery <9 points in each>. Then clamping altitude & leaving theod free in azimuth, Ali went up holding an offset rod against each of the floor marks, which I read & noted. On reaching top he came down holding it to the wall marks, theod. being clamped in azimuth & free in altitude. Thus I gauged the straightness of these passages. Besides the G. G. being steeper it has about 1.5 < .9 > inch rise above floor of ascending passage, thus, much exaggerated. [\Re]

In straightness of floor there is not over ½ inch error in any part of either passage; & in the wall about .8 maximum error. Then taking theod up into King's Ch. I set it up so as to just sight over the top of the coffer; then took level to six points inside bottom, to connect to past measures & to find how much coffer was tilted when standing on the floor. Then took level to points all round it on the ledge cut out, & to 4/<6> points of original top: thus fixing height of it. Then had a rod held at about every 50 ins all round walls, standing on floor, thus levelling floor, & reading at same time the first course so as to level that also. It varies fearfully being

cannot be telle som Afters on the vifference is mainly of spidistant places, the level bubble was observed continually. Then futty their in Antech". Hendled all along from King, che floor to great step. The step is much out flevel being about I inch high at w than at E sile. There came not, of down to July . That Let fever coming on Sich have church, I was so queen with it that humb to had immediate after suffer, tamper 102:4; all the regulariyes were a , somethirst, would ring in the head, or aching as bad as rehumention in all the runcles of the body Harris; this last is arrived courtant with fever. Murday 20 About After 12 lums sleets & good profination how better, tempor som toggi- 2; but still indfuling of to work outside in sum swind. Packing, touchning wifer Brengatures all day. Friday 21 April Packing most ofthe day, finished all my antihas spottery; also reducing coffer measures farther. I reduce to a system of mean planes for sail side; the augher of the planes with sail other being their mean angles of side, + the ristance of places = the mean dimensions for volumes; also the differences from these planes show the currentimes of inequalities of the sides. briting bried in guning. Shall pot they in Ceins to morrow.

as much as 2.26 higher at NE than at SW of chamber: and this cannot be level error of theod as the difference is mainly at equidistant places, & the level bubble was observed continually. Then putting theod in Antech^r. I levelled all along from Kings Ch floor to great step. The step is much out of level being about 1 inch higher at W than at E side. Then came out, & down to supper. I had felt fever coming on while I was at work, & was so queer with it that I went to bed immediately after supper, tempr 102°.4; all the regular signs were on, sore throat, wandering in the head, & aching as bad as rheumatism in all the muscles of the body & arms; this last is curiously constant with fever.

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Thursday 20 April

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(3)

After 12 hours sleep & good perspiration I was better, temp^r down to 99°.2; but still not feeling up to work outside in sun & wind. Packing, & reducing coffer observations all day.

Friday 21 April

Packing most of the day, finished all my antikas & pottery; also reducing coffer measures farther. I reduce to a system of mean planes for each side; the angles of the planes with each other being thus mean angles of sides & the distance of planes = the mean dimensions for volumes; also the differences from these planes shew the curvatures & irregularities of the sides. Writing to Birch in evening. Shall post this in Cairo to morrow.

on bothing over the Delte affering Ithink it west to relieve they found on quickly as I com. I have written to bried about (which please post), but Pade is the do un burn Porte sworgh trook their, Except an a stronger; but Men 2go tlain Room can see him + Head (Musis also named) + have a talle, which is more sates factory. Mongh this soul would un probly take up DS, the thin broadel feeld tong Zoren (Tamis); get tyst outo such an affair (wil might last several seasons) is far to unfortant to be lost is risked for the abe futthing about a few remaining things which can be I'm as well were any then time. that remains is plan fly of A splotos there ; plotos about here; 3 levels nound A (for Nich season is too go vamen now, swhich or not at all affect anything Else); med cum tombs (Mich I may many in a day), but which are not promising as the measures that Horn of two of the Third of muty tout there for thepelenty unutrical: Fofishly malte in my return; which Ithink I shall out tothe as it is rather late that total, I also as it amost take a week. It with reason for returning is that I am nother sown with heat, I the slight fiver, teamwork hard just now So I may firstly get If from Port Said in about a weeke.

on looking over the Del<t>a affair I think it best to return to England as quickly as I can. I have written to Birch about it (which please post); but Poole is the secretary, & if he is strong in it Birch is probably not much in it, <(& his name does not appear which is striking)> as they do not pull together. Now I do not know Poole enough to write to him, except as <almost> a stranger; but when I go to Coin Room I can see him & Head (who is also named) & have a talk, which is more satisfactory. Though this society would not probably take up Δs , still their probable field being Zoan (Tanis); yet to get onto such an affair (which might last several seasons) is far to important to be lost or risked for the sake of stopping about a few remaining things which can be done as well here any other time.

What remains is 1 plan of top of Δ & photos thence; 2 photos about here; 3 levels round Δ (for which season is too advanced now, & which do not at all affect anything else); 4 Medum tombs (which I may manage in a day), but which are not promising as the measures that I took of two of the Third dynasty tombs there are <irregular> & hopelessly unmetrical: & finally 5 Malta in my return; which I think I shall omit, both as it is rather late & hot for that, & also as it must take a week. adue Further reason for returning is that I am rather down with heat <81° in tomb & hotter outside now, at midnight,> & thus slight fever, & cannot work hard just now. So I may possibly get off from Port Said in about a week;

adoug or two. There are so many steamers ofmeyor, going through coural saily, wall stop to coal at Port Jaid, that by goingthine our is sureto felow in a day artero atthe outside. The rear lating that way is that the Alex = ling, moss to goes only for goods, where British hadia & others from port laid got London, sawing a little time also I can apply bersmally to Tranles, Porh, Head, & Sayce The are a sella business, & through After probably to amilia Edward. None Ith Atur names Ham luld on ; infortunately fjust missed seeing Volen Shart this year. On second thought thave written to Sager (which please post) as there is nothing blose by so do the get by four look Said in about a west

& thus be in England three weeks hence; or about 12 days after this arrives <I shall post by next mail in any case to say what I do.>. It depends rather on what Ellis does; he returns soon, & it would be convenient to come with him if I could hit it within a day or two. There are so many steamers, goods & passengers, going through canal daily, & all stop to coal at Port Said, that by going there one is sure to get one in a day or two at the outside. The reason for taking that way is that the Alex^I line, Moss, & it goes to Liverpool & that is £2 or so extra <in England> & a long train & delay for goods, whereas British India & others from Port Said go to London, saving a little time also. and

I can apply personally to Franks, Poole, Head, & Sayce who are on Delta business, & through Loftie probably to Amelia Edwards. None of the other names I have any hold on; unfortunately I just missed seeing Villiers Stuart this year.

On second thoughts I have written to Sayce (which please post) as there is nothing to lose by so doing, & it may be of use.

A British India leaves Suez next Sat^y, Ellis goes by it & I shall do so also if possible.

Letters safely rec^d; & D^r G. with 5. Many thanks.

€ 31- <u>Cairo</u> -

Saturday 22nd April.

Saturday 22 April: Off tolairs by 91/4, having overste first to Bank, toren 215. There to P.O. you letters; find one from his Writehouse with Barouter needing of lains Observatory, of of maron Bey. To Sebelis; got the 60 chies of pletos that piens have and from the right of those 28 monglat last year, or got 10 newords of other points that Iwanted. Then Klass met Beamon, & heard that Ellis was going weat Sat ? (which is the very day that settled by if famille) of that he was at trub & Khalifo still . Them to Frant; for our g. ablume alone, the so sent word that he was bunching with a patient, howen and sent him a line saying hour there. Hoshidat som books, Le, sur g. want togo to scotland; + aft all the usting of abox that how to take with mine, fall of away; as the things were not very much , + were tigo to three different people; and from to take them in my boses, & then send them by will to their various addresses. Som after setting dans thund at the fort of the table as the D' was out, I have his cheery and out I histle coming along the passage, & in he came . In hearing of Atta Delta himans he auch approved ofit thought totood a good chance. Wayman Dison he also thought would do will, but their sugardin sum profitable business de wow; the said he hoped chester would not be fact on to it. After seeing some new autiliar plais, I left the Eller; leaving my goldpurse with the Di, as Iwan going to the Khalifs. after in some enquires this Ellis's tent, close to There have wholed; then is me good wow at that point. Found that he has not sent agent, butwill do so on monday, so asher him to secure is finge for me also by same ship if he could . The fore is the aure from Suez as Part Joid, & Suezis chaper journey, so shall go that way. Heals offend to enjuge trand out east for my things, so as to are my coming in again till Reautout them left him . Did shothing; to of again, fetching purse of things; he & pressed on to come osled, there thereight Istay in

Off to Cairo by 9 ¼, having overslept; first to Bank, & drew £15. Then to P.O. & got letters; finding one from M^I Whitehouse with Barometer readings of Cairo Observatory, & f of Mason Bey. To Sebah's; got the 60 copies of photos that friends have ordered from the sight of those I brought last year, & got 10 new ones of other points that I wanted. Then having met Beaman, & heard that Ellis was going next Saty, (which is the very day I had settled to go if possible) & that he was at tombs of Khalifs still. Then to D^r Grant; found M^{rs} G. at home alone, the D^r sent word that he was lunching with a patient; however M^{IS} G. sent him a line saying I was there. I looked at some books, &c, M^{rs} G. wants to go to Scotland; & after all, the notion of a box that I was to take with mine, faded away; as the things were not very much, & were to go to three different people; so I offered to take them in my boxes, & then send them by rail to their various addresses. Soon after sitting down to lunch at the foot of the table, as the D^r was out. I heard his cheery subdued whistle coming along the passage, & in he came. On hearing of my notion of the Delta business he much approved of it, & thought I stood a good chance. Wayman Dixon he also thought would do well, but then he is engaged in more profitable business now; & he said he hoped Chester would not be put on to it. After seeing some new antikas of his, I left to see Ellis; leaving my gold purse with the D^r, as I was going to the Khalifs. After some enquires I hit Ellis's tent, close to where I was robbed; there is no guard now at that point. Found that he has not seen the agent, but will do so on Monday, so asked him to secure passage for me also by same ship if he could. The fare is the same from Suez as Port Said, & Suez is cheaper journey, so I shall go that way. He also offered to engage & send out cart for my things, so as to save my coming in again till I leave tomb. Then left him, did shopping; to D^r G. again, fetching purse & things; he p pressed me to come & sleep there the night I stay in

cairo a it may be two night , 20 Jaccapter thankfully Att Pagal to Whitelinese. Hewas delyhto tirchtune he wants byet some in undert rough result faime (an traba native, one) to copy; had got or field books of the nonling buillers, in these difficulty to by mind what he will do but lets went drive Tome . He was usund forme to with live to stocke into the resent to the wady negan vally were so lup (Sma the hear) so for libely that Ishall return in some way here

Cairo, as it may be two nights, so I accepted thankfully. Then to Hotel Royal to Whitehouse. He was delighted to sight me again, as he wanted to get some immediate rough results of our work. He had an hour's talk with the Khedive (I pity <our Lord> Effendina); is flourishing with chief of railways, Maspero, &c, &c; he had borrowed the only complete map yet compiled of the Faium (an Arabic, native, one) to copy: had got original field books of the railways levellers, &c. I had a difficulty to get away from him & "my theory": probably he will be in London some time this summer; but he never makes up his mind what he will do, but lets events drive him as they come. He was urgent for me to go off to Oxyrhinchus with him to strike into the desert to the Wady Reyan from the south; introductions to the chief of surveyors there &c, &c, but of course I had to decline. Then back to tomb; getting in by 8. After supper looked up a dozen of the best of the Faium photos, & touched their flaws, to send to W.; he wants to print them off to have something to shew to Khedive when he next interviews him. According to him no one had any notion that the valleys were so deep (below sea level) where we went. To bed lateish.

Sunday 23 April

Not out all day. Feeling very washed-out as I have done lately, & rather fearing fever night come on. Whether two doses of quinine have kept it off, I don't know. For the last two or three weeks (since the heat) I have never felt any energy for anything, & can only enjoy sitting still & reducing observations; this is one reason why I want to get away as soon as possible; also I have no appetite, & my stomach is uneasy. Looking over things in tomb, & straightening up matters. It seems so far likely that I shall return in some way here, that

I think it best bleave enoughting that the of importance, or that Ishald not be vexed at losing; only taking and pading of for D gs, they that are really worth carrying about. In bruging they to open our has to remember that if they may be wants again here, it involves two trous is two packing to bring them Cache to England. monday 24 Horil After breakfast out fel there were several important points redyct don les. Also went down D' par ye to measure de hosting of courter und for asimuth. Then back , & packing for two orthon hours . Mojusting level of 5 inch , of finding some seartly. Then out to level round A. The previous levelling, through only my rough, agreed with highis to 45 inch except at SE socket. So began by connecting SE with NE. I will not well for to fix in the remain of pareoust inthe teles because rain of a few weeks ago had washed New stone, to clear them out of this was hardy worthwhile wow as deads not to them thoroughly accorately @ because Islands have newed to row they live flevelling much higher to see over the was to just two vod, such with a juster scale dallement black tolinh inches, attention suts of second course, NE +JE corners; then al from our to the other. Elem with the I close to NE the love by long start held by with with miler scale on top fit four rod in 20 course own to socket, + to roch out thered Maneur absorner. Then with their at SE Inos & socket there; the seems course not being higher over sochet, than the length food that Mi could manage. Mun I carried a live of level all round A by short root, on 2 worns arend comer; + indefendantly took less accurate leveling Jour to sochets. Has much difficulty to find ground low sungle to see

I think it best to leave everything that if <is> not of importance, & that I should not be vexed at losing; only taking away, or packing up for D^r G's, things that are really worth carrying about. In bringing things to & fro one has to remember that if they may be wanted again here, it involves two transits & two packings to bring<ing> them back to England.

Monday 24 April

After breakfast out photographing [O, O, O, O, O, O, O, O, O, O, O]. There were several important points not yet done, & I did 13 plates. Also went down Δ^3 passage to measure distance of positions of candles used for azimuth. Then back, & packing for two or three hours. Adjusting level of 5 inch, & finding zero exactly. Then out to level round Δ^1 . The previous levelling, though only very rough, agreed with Inglis to .15 inch except at SE socket. So began by connecting SE with NE. I could not well manage to fix in the remains of pavement in the holes (1) because the phenomenal rain of a few weeks ago had washed down stones that required men to clear them out & this was hardly worth while now as I could not do them thoroughly accurately (2) because I should have needed to run the line of levelling much higher to see over the tops of the holes, & this would have been too high for Ali to manage the rods to level down to the sockets. Hence what I did was to put two rods, each with a paper scale of alternate black & white includes, at the two ends of second course, NE & SE corners; then with theod near mid, <of face> <nearly opposite mid of face> level from one to the other. Then with theod close to NE transfer level by long staff held by Ali (with similar scale on top of it) from rod in 2nd course down to socket, & to rock cut to level of pavement at corner. Then with theod at SE level down to socket there; the second course not being higher over sockets, than the length of rod that Ali could manage. Thus I carried a line of level all round Δ by short rods <stationary> on 2^{nd} course at each corner; & independently took less accurate levelling down to sockets. I had much difficulty to find ground low enough to see

the second course level from appoint & face on 5 of we sailes. The NW-NE at finish waster shaliest part of all as thereway a breeze + bed light. The whole offerme in going mund is Haid. = 6" on while run. Atter is not bad for a sinch theod Ithinks. I did where the o inch as it would take wastly more time . I have manged to get this some settle before sunset so that I had very little heating; working in shake at first (Edds) trulying with sun till an hour crow before sment; there was a cord slight wind, which was very good for it. The above 1.1 Jamida practically ale due to Noide some of NW-NE, Karrame of guit cornect round NE-SE-SW-NW. the results them for sockets -28:5 -39.9 -23.0 -32.8; Aby may any rough 28.75 39.95 2295 32.65; Aby highir (Der is · hearly wrong in SE) _ 28.6 42.2 23.0 32.8; so nother which I - 28.5 39.9 23.0 32.8 i.e. the work of to day. It is really stronge that there independant working, should all come to very close: there is not seem of inde mentanty. NE +105.5 wm, +111.2 +107.7 Applying this to the leveling up A we have 57.6 + 5329.4 = 5387.0 pm NE part to 5w top - 1:06 seron top =5385.94 to NE top, -5385.67 Source NE = .27 inch difference in going NE -SE -SW -top -NE comer, Holp ale parties will be satisfied, - I am , put finished by laste, form to appear. This work wind has bettered me, & I was really of twood tin afternoon. Developing gutos in sven. menday 25 April Packing all day, 4 dog tired in arevery; so having nothing to say will say nothing. ford right.

the second course <u>level</u> from opposite Δ face on S & W sides. The NW-NE at finish was the shakiest part of all as there was a breeze & bad light. The whole difference in going round is 1.1 inch = 6" on whole run, & this is not bad for a 5 inch theod I think. I did not use the 10 inch as it could take vastly more time; & I just managed to get this done in the before sunset so that I had very little heating; working in shade at first (E side) & not going into sun till an hour <& ½> or so before sunset; there was a cool slight wind, which was very good for it. The above 1.1 I consider practically all due to N side error of NW-NE, & assume it quite correct round NE - SE - SW - NW. The results then are for sockets -28.5 -39.9 -23.0 -32.8; & my very rough working before & by Inglis (who is 28.75 39.95 22.95 32.65; clearly wrong in SE) – 28.6so on the whole I 23.0 32.8; should adopt -32.8 i.e. the work of to day. 39.9 23.0

It is really strange that those independent workings should all come very close: there does not seem .1 inch uncertainty. The whole of today's levels run thus: –

	NE	SE	SW	NW	
2 nd course	+107.7	+105.5 worn	+111.2	+106.6	
1 st -	+58.6		+57.6	+58.0	
pavement	0			-1.2 at n	ear end W. side.
sockets	-28.5	-39.9	-23.0	-32.8	
basalt pavement	-2.0				

Applying this to the levelling up Δ we have 57.6 & 5329.4 = 5387.0 from NE pav^t to SW top, -1.06 across top, = 5385.94 to NE top, -5385.67 down NE = .27 inch difference in going NE – SE – SW – top – NE corner. Hope all parties will be satisfied, – I am. Just finished by dark, & down to supper. This cool wind has bettered me, & I was really up to work this afternoon. Developing photos in even.

Tuesday 25 April

Packing all day, & dog-tired in evening; so having nothing to say will say nothing. Good night.

to Borg at Comme Monday Parto this, the Holland due tell Elived

Tuesday 26 <25> April

Going on packing all day.

Wednesday 27 <26> April

Finishing tidying up, & out to Δ down to Subterranean Chamber to measure height over doors, & to fix place of end of rock in passage. Cart came up by 2. & I loaded things, got them to station by 5 $^{3}\!\!/_{4}$ & sent them off to Suez. Then to Dr G. where I left the three boxes of instruments in his storeroom. Settled in at the Dr of a day or two.

Thursday 28 <27>th

To Bulak Museum in morn to see the mummies, which I cannot stop to describe now. In aft classifying the D^{r's} coins.

Friday 29 <28>th

Going on with the coins. To Genl Stone (out) to Corbett (out) to Borg at Consulate, very polite & pleasant. To Bank & drew out balance. In evening to Corbett, & had a chat.

Saturday 30 <29>th

Finishing naming coins in morn. Off by 11.30 to Suez, meeting Ellis at station. We got to Suez by about 7 ¾, & walked up to Hotel d'Orient.

Monday-

Posted this, the "<u>Hallamshire</u>" is late, not due till <u>Thursday</u>, so we hope for the "<u>Priam</u>" from (India today) to sail tomorrow if so, may be home Tuesday 16 perhaps –

(At office, they say Wedy - W.P.)

30 Abril. Out stolling round the town of such Priam was refeated that afternoon on hunday, for Lo of 20 for as at the Sucre the great one. It is Day and may to slip in get for us. Heard that , of there is another week fetter · two might wont to It in Hand wednesday 3 may he agent say that heature, to by Fri mon: forcestam: they saw fine steamers cowing from the land Thursday 4th many Prian within get ton going to there of the the the the the thing is posted up for Sut morning, down in afternoon

Sunday 1 May <30 April.>.

Out strolling round the town of Suez in the morning; on enquiring heard that a steamer, the "Priam", was expected that afternoon on Monday, for London: but the "Hallamshire" would not be in till the 5th though advertised for the 1st-M 29th April <on the strength of which we came here.>. After staying in during the heat we went out for a stroll again in the afternoon, & to bed early. This hotel, d'Orient, is not first class; but is only 10 fr instead of 20 fr as at the Suez, the great one. It is clean, & very fair in feeding, kept by an Italian & his wife a Dalmation; r civil, pleasant, people. Very few English come here, mainly French, Germans, &c.

Monday 1 May

"Priam" not in yet, out in morning. In afternoon walked down to Port Ibrahim 2 miles off at the end of the Canal. One cannot go off to any distance, for fear the ship should come in. Doing some reduction of measures.

Wednesday 2nd May

No ship yet in for us. Heard that Hallamshire will not be in till 8th, & there is another much better ship <Almora> due then <also Brit. India>. We have just come at a lull in the traffic, several ships went through before we came, & there will be several again about the 8th. Of course we might have gone by P&O or Orient, but they are £22 & 20 instead of £15 by "Priam" or 15 gs by Brit. India. <Walked over the flats to the cemetery.> We fetched up all our luggage from the station in case a ship should come in late or early, when station is shut; & we might want to be off instantly.

Wednesday 3rd May

The agent says that Almora will be in before her time, in her by Fri: morn: for certain <a mistake of ours>: this is comforting as the other agent thinks Priam must have broken down as she is not in yet. Walked over the flats to the cemetery with Ellis & saw five steamers coming down the canal in succession, all outward bound. Doing some reduction of measures. Patience, Patience.

Thursday 4th May

Priam not in yet, & on going to office saw that Almora is posted up for <u>Sat</u> morning. <Down to Port in morn, & went on Kaiser i Hind for India.> Over in afternoon to

the country on the flats with Ellis, toping a new righ flu the category are oto two missed fire , taplast one burst I bulging the side plate somewhat said stopping the proceeding rough for book on sluteting that he is bound to write; tab I am fewfully larg, sleefing continually during the day beside fairly long night, or feeding heavily Friday oth way. Out in more; saw agent for Almora, who was says that she very likely many have no room !! But he will take as of ther in his steam lemmely bug Abaggage, I bring as back if we could be taken in Then after a terra Ellis went back , I twent on some way, about the No railway (Disures) & cairs. I panes the mound, aour with a cough four on the of the cheeting Which is could Kom sl'Olzum supposed to be site of Kolzum on Clyana. Home is much late Roman polley 40 lan, & nothing trabe in far as I saw. Jalo passed on I the alt pirols whomed bright pink with microsopie crabs which make it small like vistels. sorbade, ruther hot shows sowoge till near level, after lunch talling to beginning to average account of De work. Up troffer sensel, your a most juguacions duck in the street; it would out let some hem pick af a sarap without flying after them, not often name at the boys heads, flying with outspread wings when there was a way it did sub-weadle, but now along straight be was sent title as that we must be off at 5 own to morrow, a found he was marely trying for a job , that agent send his own man when the Almora comes in. Saturday, 6 may, After packing up, writing & snooping weaton is a desalting way till at 4 octobb a

the cemetery on the flats with Ellis, trying a new rifle of his; the cartridges are old, two missed fire, & at last one burst & bulging the side plate somewhat, and stopping/<ed> the proceedings. So back to our quarters. Ellis is getting on well with rough of a book on sketching that he is bound to write; but I am fearfully lazy, sleeping continually during the day beside fairly long nights, & feeding heavily for me.

Friday 5th May.

Out in morn; saw agent for Almora, who now says that she very likely may have no room!! But he will take us off to her in his steam launch bag & baggage, & bring us back if we can't be taken in. Then after a turn Ellis went back, & I went on some way, along the old railway (disused) to Cairo. I passed the mound, now with a couple of guns on the top, & a chateau of the Khedive's, which is called Kom El 'Olzum supposed to be site of Kolzum or Clysma. There is much late Roman pottery & glass, & nothing Arabic as far as I saw. I also passed one of the salt pools coloured bright pink with microscopic crabs, which make it smell like violets. Got back rather hot & had a snooze till near lunch. After lunch talking, & beginning to arrange account of Δ work. Up to roof for sunset, & saw a most pugnacious duck in the street; it would not let some hens pick up a scrap without flying after them, & it often ran at the boys heels, flying with outspread wings when they ran away: it did not waddle, but ran along straight for its ordinary pace. In the evening a boatman came saying he was sent to tell us that we must be off at 5am tomorrow, & wanting us to engage his boat overnight. Some points made us doubt him; so we sent a line to the agent asking, & found he was merely trying for a job, & that agent would send his own man when the Almora comes in.

Saturday, 6 May.

After packing up, writing & snoozing went on in a desultory way till at 4 o'clock a

I man brought a olif of paper . + said the Almora 230 I can't was quickly brought, Alter baggages packed; of after settling officers or over off to the pier, At the Customs there was some selay, + blast only two boxes were inspected, me of ellis's, fore frames; or infact only one by int wa in white which was opening a harmless ones; & Fr buy rebel I carried out marpero's advice to course off in they without faither famility. There we graints about souther of the ship. wifind the agent on breed + that there was room for is, so fait passage, jeffel to ser the last ofthe soll-souhed some plane of Sueza. The slip is a therably large one twell found; ali is in two days before time, orther safeet to reach Plymonth outle 20th of London a 22 00. As the rail takes a day booms stant it could will to come up from Phymouth lytrom, when we should hear of selly of in port. We people are very totally between one interesting. I am unlinder in my rabin to berwiter, other deformed, of assisted to nightly festations of gin, before tafter he comes to tor from Java, ear out drinking juit a much, & capable of pretty if a prest head were . O a quiet sensible sextchman, in the building trade in Brisbane with the bottleons precedings. O & O & and finish there which tretine til 11 or 12 or 1, or tath after that, never putting themo light out, but letting it bun out after they are fast asleep. The Purseer is a very good. actions man, but is going to check them of if they so not reform. There are several children, 3 your family from Batana sit wat your praint little butch songs a sich sometimes. There is found las from Fige who plays very will, those long memory.

man brought a slip of paper & said the Almora was in. A cart was quickly brought, & the baggage packed; & after settling affairs we drove off to the pier. At the Customs there was some delay, & at last only two boxes were inspected, one of Ellis's, & one of mine; or in fact only one biscuit box in it/<mine>, which was of course a harmless one; & so to my relief I carried out Maspero's advice to carry off my things without farther formality. Then we got into a boat & sailed off to the ship. We found the agent on board & that there was room for us, so paid passage, joyful to see the last of the salt-soaked sand plain of Suez. The ship is a tolerably large one & well found: she is in 2 days before time, & they expect to reach Plymouth on the 20th & London on 22nd. As the rail takes a day I do not think it worth while to come up from Plymouth by train, unless we should hear of a delay at in port.

The people are very tolerable but no one interesting. I am unlucky in my cabin; (1) a barrister, rather deformed, & addicted to nightly potations of gin, before & after he comes to the cabin, sometimes getting roaringly muddled: (2) a factor from Java, caf not drinking quite so much, & capable $\frac{1}{W}$ of putting up a great deal more: (3) a quiet sensible Scotchman, in the building trade in Brisbane much vexed with the bottleous proceedings. (1) & (2) do not finish their whist & retire till 11 or 12 or 1, & talk after that, never putting their light out, but letting it burn out after they are fast asleep. The Purser is a very good – natured man, but is going to check them off if they do not reform. There are several children, 3 of one family from Batavia sit & sit & sing quaint little Dutch songs on deck sometimes. There is a young lady from Fiji who plays very well, & has a long memory.

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There are two other amateur artists. The ships officers are a pleasant & very decent set.

Sunday 7 May

Off early into the canal; got into the Bitter Lakes by 2, & raced past three other ships ahead of us; but had to wait & resume position again, as there were vessels coming down from Ismailiyah. We got up to Ismailiyah by dark, & lay to.

Monday 8 May

Off before the other ships, & got ahead into the canal, quickly taking the lead of the others; happily only two ships were coming down, so they had to shunt for us & we got through without any stoppage. This gives af us hall 12 hours extra, as we can coal now to day at Port Said, & hope to start tonight, & steam off. We do not touch anywhere to Plymouth.

33. Pt Said - -

Sunday aft ". S.S. Almora 50 miles of Plant After we left Portsaid, all went well a couple of days, + then a thiff N.W. wind made a rolling breaking seen; the Shich began thus about noon one day, increased I ventured up on deal in the avor was soon washed Jown by a wave ; so that to go below appin there all that morning the waves breaking over the dede (Mich is a high deck all along); we rolled & petaled, mainly the latter when it with a cough of black Tranght with Browing Pot: an rather more self contained. It last after about 36 hrs of this, the wind went down of Since then beyond a will swell in the Bay Miscay (very will of The Espect to go inside I mouth mealthat at 10 tright send of mails toom fancingers we skeet to reach Tuesday after woon the color weather Ishall go on in thiship, thepe

Sunday aftⁿ. S.S. Almora 50 miles off Plymouth

After we left Port Said, all went well for a couple of days; & then a stiff N.W wind blew hard, it bore down the Adriatic, & made a rolling breaking sea; the storm which began thus about noon one day, increased all night; I ventured up on deck in the morning, & was soon washed down by a wave which soaked me; so I had to go below again, & groan, as I heard all that morning the waves breaking over the deck (which is a high deck all along); we rolled & pitched, mainly the latter when it was not the former: the doctor consoled me with a couple of black draughts with Bromide Pot: which left me rather more self contained. At last after about 36 hours of this, the wind went down, & soon we had peace. Since then, beyond a mild swell in the Bay of Biscay (very mild – for its reputation,) we have gone on happily enough. (We expect to go inside Plymouth Breakwater at 10 tonight, send off mails & some passengers per tender, & then run on our way to London, which we expect to reach Tuesday afternoon. As it looks like calm weather I shall go on in the ship, & hope to be home Tuesday evening.