

## REGISTER OF ROCK LEVELS, JERUSALEM.

## REMARKS.

1. THIS register includes all the recorded observations up to the present date—total 265. Those marked (O), 22 in all, are taken from the Ordnance Survey Notes and Plan, dating 1864-5. Those marked (W), 76 in number, were taken by Captain Warren in 1867-70, as noticed in the "Recovery of Jerusalem." Those marked (S), 139 in all, were collected by Herr Conrad Schick, in 1872. They are mainly the results of excavations for the foundations of houses. Those marked (C), 27 in all, were observed by Lieut. Conder in 1872-5.

2. The levels depend on, and are referred to, the surface levels marked on the Ordnance Survey.

3. Negative results of value have also been obtained, as noticed in the works above mentioned. In 1872 all the chambers under the platform of the Dome of the Rock on the south and west were entered by Lieut. Conder. No rock was found in them, the general floor-levels being 2420 feet above the Mediterranean.

No.	Position.	Level above the Mediterra- nean.	Depth below surf. of ground.	Authority.	Remarks.
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## INTERIOR OF HARAM.

1	Highest crest of <i>Sakhrah</i> ...	2440	...	O	5ft. 3in. above floor.
2	Dome of the Rock 100 ft. E. of last ...	2432	3	C	Excavated, 1874.
3	<i>Kubbet el Arwâh</i> ...	2435	...	C	Surface.
4	E. wall of platform 180 ft. N. of steps ...	2421	...	C	1ft. above base of wall.
5	E. wall of platform 80 ft. N. of last ...	2423	...	C	4ft. above base of wall.
6	Flat rock 50 ft. E. of last ...	2419	...	O	Surface.
7	Flat rock 120 ft. S. of S.E. corner of platform ...	2420	...	O	Surface.
8	N. wall of platform 50 ft. E. of top of N.W. stairs ...	2432	...	C	2ft. above surface.
9	Flat rock N. of N.W. stairs ...	2430	...	O	Surface.
10	Top of rock scarp, E. wall of chamber No. 24 ...	2433	2	C	Examined, 1872.
11	Bottom of ditto (rock falling W. 30°) ...	2425	9	W	Recov. Jer., p. 214.
12	<i>Kubbet el Khudr</i> floor ...	2426	...	C	Surface.
13	E. side of N. door of last ...	2423	...	C	2ft. above surface.
14	N.W. corner outside same ...	2425	...	C	Surface.
15	Flat rock N.W. corner of Haram ...	2425	...	O	Mean surface.

No.	Position.	Level above the Mediterra- nean.	Depth below surf. of ground.	Authority.	Remarks.
16	Highest point (at steps) of scarp in N.W. corner of Haram ... ..	2462	...	S	30ft. above interior.
17	E. end of same scarp ... ..	2432.5	...	S	13½ft. above interior.
18	Scarp on W. Haram wall, highest point 80 ft. N. of <i>Bâb es Serai</i> ... ..	2447	...	S	7ft. above interior.
19	S. face of same scarp at window in Haram wall S. of last	2434	...	C	3ft. above interior (1873)
20	Under-sill of Triple Gate ... ..	2378	1	W	Recov. Jer., p. 230.
21	W. wall of passage 60 ft. N. of outside line of Triple Gate	2388	...	W	Surface of floor.
22	W. wall 130 ft. N. of last ... ..	2396	...	W	3ft. above floor.
23	Cistern No. 1... ..	2427	12	W	Recov. Jer., pp. 206-217
24	" No. 2... ..	2429	6	W	
25	" No. 3... ..	2426	9	W	
26	" No. 4... ..	2417	18	W	
27	" No. 5, N.W. end ... ..	2425	10	W	
28	" " S.E. entrance	2408	8	W	
29	" No. 6... ..	2410.5	5.5	W	
30	" No. 7, average ... ..	2411	5	W	
31	" No. 8, average ... ..	2411	5	W	
32	" No. 9... ..	2400	15	W	Doubtful, p. 208.
33	" No. 10 ... ..	2387	31	W	
34	" No. 11 ... ..	2397	19	W	
35	" No. 12 ... ..	2406	...	W	Surface.
36	" No. 13 ... ..	2409	...	W	Surface.
37	" No. 14 ... ..	2409	...	W	Surface.
38	" No. 15 ... ..	2393	15	W	
39	" No. 18 ... ..	2414	4	W	
40	" No. 22 ... ..	2416	4	W	
41	" No. 23 ... ..	2429	...	W	Surface.
42	" No. 25 ... ..	2416	20	W	
43	" No. 28 ... ..	2412	3	W	
44	" No. 29, top of scarp... ..	2419	10	W	
45	" No. 31 ... ..	...	...	...	Doubtful.
46	" No. 34 ... ..	2431	4	W	
47	" No. 35 ... ..	2429	6	S	
48	" No. 36 ... ..	2411	5	C	

## OUTSIDE HARAM WALLS.

49	W. Haram wall at Wilson's Arch ... ..	2339.75	32.25	W	Recov. Jer., p. 81.
50	West pier (42 ft. W. of last)... ..	2347.25	75	W	
51	W. Haram wall, Tyropœon bridge ... ..	2325	62	W	" p. 104
52	Prophets gate 14 ft. W. of wall	2320	90	W	" p. 114.
53	" 7 ft. N. of N. jamb	2320	74	W	" p. 115.
54	<i>Hammâm es Shefa</i> , S. end ... ..	2339	80	O	
55	Rock surface at S. end of Aqueduct from Twin Pools (channel 2406 at bottom)... ..	2409	22	C	Measured 1873.

No.	Position.	Level above the Mediterranean.	Depth below surf. of ground.	Authority.	Remarks.
56	S. Haram wall 90 ft. E. of S.W. angle .. ..	2289	85	W	Recov. Jer. p. 97.
57	S. Haram wall 213 ft. E. of S.W. angle .. ..	2322	52	W	
58	S. Haram wall 14 ft. S. of Single Gate .. ..	2334	35	W	„ p. 132.
59	S. Haram wall, S.E. angle, falls E. 1 in 9 .. ..	2277	80	W	
60	S. Haram wall 16 ft. W. of last .. ..	2287	73	W	„ p. 138.
61	E. Haram wall 15 ft. N. of S.E. corner... ..	2287.5	70	W	„ p. 149.
62	E. Haram wall 18 ft. N. of S.E. corner... ..	2298.8	60	W	
63	E. Haram wall 41 ft. N. of S.E. corner... ..	2279	80	W	„ p. 147.
64	E. Haram wall 162 ft. N. of S.E. corner... ..	2312	70	W	„ p. 151.
65	Golden gate S. jamb ... ..	2360	33	W	„ „ p. 97. Estimated.
66	N.E. tower of Haram S. side	2293.2	112	W	Recov. Jer. p. 183.
67	„ „ 200 ft. E.	2317	30	W	„ „ p. 176.
68	„ „ 135 ft. ...	2317	47	W	Falls S. 1 in 4.
69	N.E. angle of Haram 100 ft. E. of wall ... ..	2341	64	W	Recov. Jer. p. 178. A little N. of next.
70	N.E. angle of Haram 97 ft. due E. of wall ... ..	2337	59	W	Recov. Jer. p. 180.
71	E. wall of Haram 18 ft. S. of N.E. angle... ..	2330	74	W	„ „ p. 181.
72	Outlet of <i>Birket Israil</i> ...	2344	60	W	Estimated.
73	72½ ft. S. of No. 66 .. ..	2332	120	W	
74	45 ft. „ „ .. ..	2289	115	W	
75	61 ft. „ „ (rising N.)	2278	125	W	Greatest depth, p. 187
76	104 ft. „ „ (rising S.)	2289	115	W	

## MOSLEM QUARTER OF CITY.

77	256 ft. E. of <i>Báb Sitti Miriam</i>	2370	21	W	Recov. Jer., pp. 174-177
78	162 ft. „ (scarp 20 ft. high)	2379	30	W	Top of scarp.
79	109 ft. „ (rising W. in steps)	2388	23	W	
80	43 ft. N. of „	2400	19	W	
81	34 ft. S. of „	2390	20	W	
82	78 ft. „ „	2377	33.5	W	
83	Outside Ch. of St. Anne ...	2410	...	W	Surface, p. 193.
84	N.W. corner of <i>Birket Israil</i>	2363	15	W	p. 189.
85	53 ft. E. of last .. ..	2344	30	W	
86	Cistern 33 ft. W. of <i>Tarik Báb Hitta</i> , 61 ft. N. of <i>Tarik Báb Sitti Miriam</i> ...	2385	36	W	p. 195.
87	Top of <i>Akabeb et Takiyeh</i> ...	2477	...	C	Above surface.
88	Ecce Homo arch ... ..	2436	9	O	



REGISTER OF ROCK LEVELS, JERUSALEM.

No.	Position.	Level above the Mediterra- nean.	Depth below surf. of ground.	Authority.	Remarks.
118	Corner of same street, 50 ft. E. of B.M., 2442·1 ...	2400	40	S	
119	150 ft. N. of B.M. 2462, which is opposite Austrian Consulate ...	2471	7	S	
120	E. side of street N. of <i>el Malawtyeh</i> ...	2503	3	S	
121	N. of last 50 ft. S. of B.M. 2525·2 ...	2504	2	S	
122	100 ft. W. of B.M. 2525·2 at 2502 ...	2503	...	S	1ft. above surface.
123	N. side of <i>Hârat Bâb Hitta</i> 80 ft. W. of B.M. 2501·6...	2496	8	S	
124	Alley N. of last, W. of point 2508 ...	2498	10	S	
125	In garden 200 ft. N. of last...	2522	...	S	Surface.
126	N. side of <i>Hârat Bâb Hitta</i> 150 ft. E. of <i>Tarik Bâb ez Zahrah</i> ...	2497	6	S	420ft. S. of N. city wall.
127	Corner of <i>Sikket Deir el 'Adas</i> 100 ft. S. of Madeleine Church ...	2474	6	S	
128	Same street, corner N. of Madeleine Church, near point 2483 ...	2487	...	S	4ft. above surface.
129	Opposite B.M. 2450·9 at 250 ft. S. of, and 500 ft. W. of city walls ...	2446	5	S	
130	At 80 ft. S. of B.M. 2468·4 and 180 ft. W. of city wall	2440	20	S	
131	' <i>Akabet Abu Waly</i> near point 2441 ...	2399	35	S	
132	At 50 ft. E. of arch in <i>Sikket Deir el 'Adas</i> in buildings between ' <i>Akabet Abu Waly</i> and ' <i>Akabet Sh. Hasan</i> ...	2457	6	S	

JEWISH QUARTER OF CITY.

133	Surface of scarp opposite Haram ...	2430	...	O	General level.
134	At W. pier Tyropœon Bridge 41½ ft. W. of Haram wall	2345·5	42	W	Recov. Jer., pp.95—99.
135	285 ft. W. of Haram wall same line as last ...	2379·5	21	W	
136	250 " " "	2388·6	18	W	
137	216 " " "	2377·5	32	W	
138	182 " " "	2383·5	22	W	
139	132 " " "	2369	30	W	
140	92 " " "	2354·5	40	W	
141	Corner 180 ft. N. of W. wall of German Jewish Hospital	2451	45	S	
142	N. wall, same hospice ...	2436	10	S	
143	<i>Hârat el Mastah</i> , S. end, W. side of street ...	2454	36	S	
144	Same street, 60 ft. N. of last	2452	38	S	

No.	Position.	Level above the Mediterra- nean	Depth below surt. of ground.	Authority.	Remarks.
145	Corner, 90 ft. S. of N. wall of synagogue, No. 53 (O.S.)...	2460	36	S	
146	80 ft. W. of last ... ..	2455	44	S	
147	Under synagogue No. 58 (O.S.) ... ..	2497	2	S	
148	N. of last by point 2508 on E. side <i>Hârat el Jawâny</i> ...	2480	25	S	
149	Under large synagogue, No. 57 (O.S.) ... ..	2476	17	S	
150	W. of arch in <i>Hârat el Yehâd</i> , near synagogue, No. 47, (O.S.) ... ..	2468	30	S	
151	<i>Hosh Nammâr</i> , middle of street on N. side ... ..	2472	30	S	
152	In alley S.W. of Caraité Syna- gogue, near point 2497 ... ..	2477	20	S	
153	Synagogue No. 48 (O.S.), S.E. corner ... ..	2464	34	S	
154	Synagogue No. 48 (O.S.) N.E. corner ... ..	2465	30	S	
155	Synagogue No. 48 (O.S.) N.W. corner ... ..	2475	25	S	
156	Steps in <i>Hârat el Meidân</i> , S. of northern arch ... ..	2412	35	S	
157	Corner S. of last ... ..	2427	32	S	
158	150ft. W. of last, near No. 6 (O.S.) ... ..	2457	12	S	
159	<i>Hârat el Meidân</i> , E. side, N. end of third arch from Temple street ... ..	2456	3	S	
160	At 70ft. E. of last ... ..	2409	40	S	
161	Wall west of Wailing place...	2323	70	S	
162	Gennath Gate (so-called) ...	2449	34	W	Recov. Jer., p. 276.

## ARMENIAN QUARTER.

163	N.W. angle Protestant Bishop's Palace ... ..	2500	40	S	
164	E. wall do. ... ..	2510	30	S	
165	N.E. angle Bible warehouse	2520	20	S	
166	W. wall English church ...	2512	38	S	
167	N.W. angle do. ... ..	2509	41	S	
168	S.W. corner courtyard, do....	2521	22	S	
169	N.W. corner of school, S. of church ... ..	2515	28	S	
170	S.W. do. ... ..	2536	10	S	
171	Cistern in barracks S. of castle	2537	7	S	
172	David-st. S. side, E. end of arch E of Christian-st. ...	2478	40	S	
173	Cistern N.E. corner of Ar- menian convent garden ...	2527	17	S	
174	Cistern 100ft. S. of last ...	2520	24	S	
175	Cistern 80ft. S. of last ...	2517	22	S	

No.	Position.	Level above the Mediterranean.	Depth below surf. of ground.	Authority.	Remarks.
176	Corner of <i>Hârat Deir es Suriân</i> N. of B.M. 2505'5 ...	2485	25	S	S. side of Mission Hospital.
177	W. end of alley S. of Syrian convent ... ..	2492	20	S	
178	S. side of same alley near point 2512 ... ..	2492	20	S	400ft. N. of S. city wall.
179	W. corner of arch in front of synagogue No. 60 (O.S.)...	2515	20	S	
180	<i>Hârat el Jawâny</i> , E. side point 2505 ... ..	2492	13	S	E. of <i>Hârat Bâb. Neby Dââd.</i>
181	<i>Hârat el Armen</i> , S.W. corner of southern arch ... ..	2529	16	S	
182	Cistern 100ft. N.W. of <i>Bâben Neby Dââd</i> ... ..	2516	11	S	E. of <i>Hârat Bâb. Neby Dââd.</i>
183	Cistern 50ft. N.W. of last ...	2518	10	S	
184	S. wall of building E. of B.M. 2499-8 ... ..	2490	10	S	E. of <i>Hârat Bâb. Neby Dââd.</i>
185	<i>Tarik Bab en Neby Dââd</i> , 50ft. S. of southern arch, W. side ... ..	2484	20	S.	
186	At 100ft. S.W. of last ...	2510	20	S.	
CHRISTIAN QUARTER.					
187	Church of Holy Sepulchre, Tomb of Nicodemus ...	2485	...	C	Possibly higher.
188	Church of Holy Sepulchre, Chapel of Adam ... ..	2490	...	C	N.B. Floor of the Calvary Chapel, 2494.
189	Church of Holy Sepulchre, N. of Latin Chapel ...	2479	...	C	
190	Church of Holy Sepulchre, N.W. corner, S. courtyard	2473	7	S	
191	Church of Holy Sepulchre, in front of Convent of Abraham	2458	18	S	
192	Church of Holy Sepulchre, West door ... ..	2495	8	S	Top of ridge.
193	Church of Holy Sepulchre, S.E. corner of courtyard, above Chapel of Helena ...	2480	...	S	Surface.
194	Excavation No. VI. O.S. ...	2470	7	O	Excavated 1864.
195	<i>Kala't Jalûd</i> S. side... ..	2580	...	O	Surface.
196	,, city wall, N. of	2576	4	W	Recov. Jer., p. 285.
197	,, 140ft. N. ... ..	2470	...	O	Average surface.
198	Outside city wall, 700ft. N.E. of <i>Kala't Jalûd</i> ... ..	2527	...	O	Surface.
199	Corner of <i>Hârat Istambullyeh</i> 250ft. E. of <i>Kala't Jalûd</i> , by Convent of St. Basil ...	2567	5	S	
200	N. wall Latin Convent (18 O.S.)	2549	10	S	
201	<i>Hârat Istambullyeh</i> , founda- tions of Convent of St. Theodore ... ..	2565	...	S	Surface.

No.	Position.	Level above the Mediterranean near.	Depth below surf. of ground.	Authority.	Remarks.
202	W. of same street, 80ft. N. of Convent of St. Demetrius	2537	8	S	Approximate.
203	Latin Patriarchate N.E. angle	2549	...	S	
204	Latin Patriarchate, 50ft. E. of last ... ..	2557	13	S	Doubtful.
205	Latin Patriarchate, W. wall, 100ft. from N. W. angle ...	2534	14	S	
206	Ch. of St. Saviour, under floor	2532	20	S	
207	<i>Harat el Wariyeh</i> , 140ft. N.E. of last ... ..	2553	3	S	
208	Grounds of Patriarchate, S.E. corner ... ..	2553	12	S	Surface.
209	At 50ft. N. of B.M. 2563 ...	2553	10	S	
210	100ft. W. of Greek Catholic Convent ... ..	2522	20	S	
211	W. side of <i>Harat Istambuliyeh</i> , between St. Demetrius and Greek Catholic Convent ...	2525	12	S	
212	Greek Catholic Convent (11 O.S.) ... ..	2523	17	S	
213	Pool of the Bath, middle of N. side ... ..	2512	...	S	
214	„ „ W. side ... ..	2510	9	S	
215	„ „ S.W. corner ... ..	2500	20	S	
216	Mediterranean Hotel, S.W. corner ... ..	2494	32	S	
217	German shop, N.W. corner, 70ft. N.W. of last... ..	2494	32	S	
218	100ft. N.W. of W. door H. Sep. Ch. ... ..	2500	15	S	
219	N. of Holy Sep. Ch. S.W. of <i>Khankah</i> .. ..	2479	30	S	
220	<i>Muristan</i> N.W. corner 60ft. S. of Minaret <i>Jamia' el 'Omary</i> ... ..	2462	54	S	
221	Ch. of St. Mary Magna S.E. corner ... ..	2438	31	S	Tomb under wall in rock.
222	Cistern mouth, 120ft. N. of S.E. corner of <i>Muristan</i> ...	2426	53	C	
223	Bottom of large cistern S.W. of last ... ..	2429	50	S	Visited by Lt. Conder, 1872. Rock stepped and falling E.
224	Corner of Via Dolorosa and <i>Khan ez Zeit</i> , B.M. 2464.9	2465	...	C	
225	House W. of German Hospice of St. John ... ..	2488	...	S	Surface.
226	Corner of <i>Khbt el Khankah</i> , and <i>'Akabet el 'Asafir</i> ...	2487	...	S	
227	50ft. N. of entrance to German Hospice ... ..	2455	13	S	
228	E. of <i>'Akabet el 'Asafir</i> , 40ft. N.E. of No. 226 ... ..	2484	...	S	Surface.
229	In front of Damascus Hotel...	2437	24	S	
230	N. wall .. ..	2453	13	S	



No.	Position.	Level above the Mediterra- nean.	Depth below surf. of ground.	Authority.	Remarks.
231	W. of last, 70ft. from <i>Tarik</i> <i>Báb el 'Amúd</i> ...	2470	15	S	
232	' <i>Akabet el Batikh</i> , W. of point 2494 ...	2489	5	S	
233	Between last and Convent of St. John Euthymius, N. of B.M. 2501·8 ...	2497	7	S	
234	Corner opposite St. John Eu- thymius on north ...	2486	20	S	
235	N. of Khankah, E. of Deir es Seiyideh, and of Street ...	2477	30	S	
236	Spanish consulate, N. wall...	2487	13	S	
237	E. end of second alley, N. of last at point 2484 ...	2464	20	S	
238	E. end of next alley, N. of last at point 2482 ...	2472	10	S	
239	N. side of same alley ...	2483	8	S	Surface.
240	Jew's House of Industry, B.M. 2490 ...	2482	8	S	
241	E. end of alley opposite No. 238	2480	12	S	
242	Open ground near city wall, 50ft. N.W. of point 2501...	2483	18	S	
243	150ft. S. of last, in street, 100ft. N. of B.M. 2502·1 west of point 2499...	2494	5	S	
244	W. side of winding street 80ft. N.E. of last ...	2487	15	S	
245	Corner of House 100ft. W. of B.M. 2517·2, which is on corner N.W. of Greek Con- vent of St. Catherine ...	2517	12	S	

## OUTSIDE THE CITY.

246	240ft. E. of S.E. angle of Haram (bed of the Kedron Valley) ...	2171	38·5	W	Recov. Jer., p. 97. The rock was traced 175ft. W.
247	Golden gate 133ft. E. of S. side of gate, rock rising W. 1 in 4 ...	2312	30	W	Recov. Jer., p. 154.
248	Cœnaculum, N. end of court- yard ...	2504	15	S	
249	„ middle S. wall...	2479	30	S	
250	„ at cross roads, 50ft. W. ...	2495	25	S	
251	Rock tower foundation under Protestant School on Sion	2483	...	C	Scarp is 36ft. high, 9ft. above passage.
252	Rock platform W. of last ...	2447	31	C	
253	Scarp S.E. of tower (top) ...	2485	...	C	Average.
254	Outside school washhouse on E.	2472	...	C	Surface.

No.	Position.	Level above the Mediterra- nean.	Depth below sur- face of ground.	Authority.	Remarks.
255	Back of shoemaker's shop, N. of last ... ..	2467	42	C	For these observations, 250—259, see Lt. Con- der's plan of this scarp. 10ft. above surface in cemetery.
256	N. end of scarp, N. of tower	2480	...	C	
257	Tower in S.E. corner Protes- tant cemetery (top of scarp)	2480	...	C	
258	Bottom of same scarp ...	2435	35	C	
259	Scarp running N.E. from last	2500	...	O	Surface.
260	Cistern opposite last on S.E.	2480	...	O	Surface.
261	Rock 400ft. S.W. of No. 250	2380	...	O	Surface.
262	„ 400ft. S. of last ...	2350	...	O	Surface.
263	Scarp 200ft. W. of Pool of Siloam (top) ... ..	2200	...	O	Surface.
264	Scarp 300ft. E. of pool ...	2160	...	O	Surface.
265	Scarp 500ft. N. of Acedama	2180	...	O	Surface.

CLAUDE R. CONDER, LIEUT., R.E.  
Nov. 1st, 1879.

## NOTES ON COLONEL WILSON'S PAPER ON THE MASONRY OF THE HARAM WALL.

### I. *Dressing of the Drafted Masonry.*

The peculiar dressing of the Haram masonry—which is not mentioned in Colonel Wilson's paper—seems to be worthy of notice. The eight-toothed chisel described by Colonel Warren (Recov. Jer. p. 138) was used in two directions at right angles, making a regular criss-cross pattern. This dressing has been found at the south-east angle in the courses near the base of the wall, and it has also been specially noted, 1st, on the stones of the Master Course; 2nd, on those at the Wailing Place; 3rd, at the south-west angle; 4th, on the voussoirs of the Tyropœon bridge. This dressing distinguishes the finished masonry of the Haram from other drafted masonry of later date. The stones in the wall east of the Holy Sepulchre, for instance—supposed by Du Vogüé to be part of the *propylæa* of Constantine's great Basilica—are finished almost as finely as the Haram stones, but have no criss-cross dressing. The inferior Byzantine drafted masonry (as for instance in Justinian's Church on Gerizim) is dressed with a toothed chisel used in various directions, but the regular criss-cross pattern of the Haram work is never found on it.

On the supposition contained in Colonel Wilson's paper this dressing would have been first used by Nehemiah, and four centuries later by Herod, and again six centuries later by Justinian, a result which it seems difficult to adopt without hesitation. As far as our information yet goes it appears that the method of dressing masonry is as a rule very