

### III.

*Latitudes of Places in Hindustan, and the Northern Mountains; with observations of Longitude in the Mountains, according to Immersions and Emersions of Jupiter's Satellites.*

BY CAPTAIN J. A. HODGSON, 10<sup>TH</sup> REGT. N. I.

Places.	Latitude.	Province or District.	Remarks.
<i>Ludiana</i> .....	30 55 46	<i>Sirhind</i> .....	Center of the <i>British</i> cantonment.
<i>Sambdu</i> .....	29 26 2	<i>Jind</i> .....	Village on the road from <i>Narba</i> to <i>Jind</i> .
<i>Jind</i> .....	29 16 50	<i>Ditto</i> .....	Camp, 3 furlongs N. W. of the fort. <i>Jind</i> is the principal town and residence of the <i>Sik's</i> chief <i>BAG'H SINH</i> .
<i>Caithal</i> .....	29 48 51	<i>Caithal</i> .....	Camp, 3 furlong S. of the town, which is the principal town and residence of the <i>Sik's</i> chief <i>BYLAL SINH</i> . It was one of the marches of <i>TAIMUR</i> , on his route from <i>Samana</i> to <i>Delhi</i> .
<i>Narnaud, (C)</i> .....	29 18 0	<i>Huriana, (Bril.)</i> .....	On the road from <i>Jind</i> to <i>Hansi</i> . This latitude is by construction.
<i>Hansi</i> .....	29 43 4	<i>Ditto</i> .....	Flag staff in the fort.
<i>Ditto</i> .....	29 35 6	<i>Ditto</i> .....	Center of the cantonment.
<i>Hissar, (C)</i> .....	29 7 48	<i>Ditto</i> .....	S. E. gate of the fort.
<i>Bahauna</i> .....	29 31 55	<i>Ditto</i> .....	Village.
<i>Futabad</i> .....	29 30 3	<i>Ditto</i> .....	House in the fort. <i>Futabad</i> is mentioned in <i>TAIMUR's</i> march.
<i>Irwd, (C)</i> .....	29 37 0	<i>Ditto</i> .....	At present a village, mentioned in <i>TAIMUR's</i> route.
<i>Danaur</i> .....	29 31 29	<i>Sersa</i> .....	Col. <i>ADAM's</i> camp at the <i>j'hil</i> .
<i>Dandan</i> .....	29 41 30	<i>Ditto</i> .....	In the <i>Battei</i> country. Col. <i>ADAM's</i> camp at a <i>j'hil</i> .
<i>Sersa</i> .....	29 31 4	<i>Ditto</i> .....	The ancient fort, taken from the <i>Batteis</i> by Col. <i>ADAM</i> , but restored. This is also one of <i>TAIMUR's</i> marches.

Places.	Latitude.		Province or District.	Remarks.
	°	' "		
Ránish, (C).....	29	31 4	Sersa.....	The chief town and residence of the <i>Battei</i> chief BAHÁDUR KHAN, taken by Col. ADAM, but restored. This was one of TAIMUR's marches from <i>Batnir</i> .
Batnir .....	29	34 40	Butnir .....	West face of the fort, now in the possession of the BICANÉR <i>Rájá</i> — <i>Batnir</i> is well known in history, from the extraordinary march made by TAIMUR, across part of the desert to attack it. It is on the east verge of the great sandy desert, which extends to the <i>Indus</i> , and is in longitude 74° 12' E. nearly. In ARROWSMITH's map, <i>Batnir</i> is also called <i>Batinda</i> , which is a large town nearly 100 miles from it.
Tushám .....	28	51 37	Huriana .....	Camp, 400 yards N. E. of the conical peak of rock.
Tigrána .....	28	51 36	Ditto .....	N. verge of the village, which is a large one.
B'hawáni, (great).....	28	46 12	Ditto .....	NANDA's tomb— <i>B'hawáni</i> was stormed and carried by the troops under Colonel BALL. It is a large walled village, 3 miles in circumference.
Bíri .....	28	40 15	Ditto .....	S. side of <i>Bíri</i> , a very large walled village.
Silán .....	28	54 56	Ditto .....	S. W. side of the village, which is a large one.
Carár .....	28	49 27	Ditto .....	Large village, walled S. W. side.
Rhotac .....	28	53 15	Ditto .....	Center of the town.
Mahim .....	28	56 55	Ditto .....	Large mosque, west end of the town.
Mund'ahal.....	29	0 0	Ditto .....	The fort— <i>Mund'ahal</i> is a village between <i>Mahim</i> and <i>Hansi</i> .
Carcara .....	28	54 20	Ditto .....	S. side of the village between <i>Mahim</i> and <i>Rhotac</i> .
Bissaien .....	28	42 43	Ditto .....	Small village near <i>Bíri</i> .
Nigána .....	28	45 56	Ditto .....	Large village N. side.
Callowie.....	28	56 19	Ditto .....	N. end of the <i>j'hil</i> , under the village.
Gatauti .....	28	28 15	Doub .....	Fort in Lieut. Col. SKINNER's <i>jágr</i> , on the <i>Hindan</i> river.
Tilhar .....	27	56 13	Rohilk'hand .....	<i>Mungo tope</i> at the S. E. end of the town, which is large.
Shahjehanpur .....	27	51 17	Ditto .....	Camp, 1 mile east of the N. end of the city, which is very large, and equal or superior to <i>Bareilly</i> .
Bareilly, (irregular cavalry cantonment) .....	28	23 56 5	Ditto .....	Cantonment of Col. GARDNER's cavalry, 2 miles N. of the old fort, at the west end of the city.
Murádábád, (cantonment)	28	50 20 13	Ditto .....	200 yards in the rear of the center of the cantonment.

Places.	Latitude.			Province or District.	Remarks.
	°	'	"		
Chandausi .....	28	27	37.5	Rohilk'hand .....	At Mr. BOLDERO'S Bungalow, from whence the N. E. gate of the town of Chandausi is distant 1 mile & furlongs, and bears 44° S. W.
Rámnagar .....	28	22	28	Ditto .....	North wall of the ancient and extensive PÁNDU'S fort—The conical mound, (in height 70 feet), distant 411 yards S. 20 E. The circuit of this old fort, now in ruins, is exactly 4 miles, and it had 34 brick bastions.
Cáápur, (the factory)..	29	11	55	Ditto .....	The government's factory in the old fort, which was extensive, and resembling that at Rámnagar. At the N. W. end of the town, and distant from this 1 m. 7 f. is another fort, of which Mr. BURROW observed the latitude.
Haldia .....	29	15	59	Ditto .....	One furlong west of the town.
Banhera .....	29	32	3	Ditto .....	1½ furlongs east of the village.
Nugina .....	29	26	49	Ditto .....	2 furlongs S. E. of the town, on the Murádábád road.
Dhampur .....	29	17	13	Ditto .....	5 furlongs S. E. of the town, on the Murádábád road.
Shekhara .....	29	13	19	Ditto .....	1 furlong S. of S. W. end of the town.
Burkha .....	27	50	41	Oude .....	4 furlongs N. E. of the village, on the road to Sitápur.
Mahauli .....	27	40	8	Ditto .....	Camp, 1 mile east 20° S. of the village, on the Sitápur road.
Sitápur, (cantonment) ..	27	33	36.1	Ditto .....	Bungalow on the left bank of the nulla, 2d line from the rear.
Pirnagar .....	27	25	28.5	Ditto .....	S. W. end of the bridge, road from Sitápur to Lucnow.
Barreh .....	27	16	9.3	Ditto .....	A dergah at the N. end of the town.
Mohan .....	27	5	26.7	Ditto .....	1 furlong N. W. of the town.
Lucnow, (cantonment) ..	26	54	50.5	Ditto .....	Center of the rear of the Sipáhi lines of the right battalion.
Lucnow, (city) .....	26	51	50.1	Ditto .....	Capt. MACLEOD'S house, near the residency.
Salar gunj .....	26	52	23	Ditto .....	N. gate of the gunj, on the road from Lucnow to Bairam ghát.
Bairam ghát, (cant.) ..	27	7	26.5	Ditto .....	Captain RAPER'S Bungalow.
Muhammedpur .....	27	13	12	Ditto .....	S. E. corner of the town, on the road from Bairam ghát to Sitápur.
Bisma .....	27	23	16	Ditto .....	Tank at the S. E. end of the town.
Nowil gunj .....	27	47	40	Ditto .....	The Serái in the town. This is the road from Lucnow to Futigerh.
Bangermow .....	26	52	53.5	Ditto .....	The west end of the town, distant 5 furlongs N. 40 E.
Nanamow .....	26	52	21.5	Doab .....	The ferry, right bank of the Ganges, and 200 yards above the old mound of a fort.
Khoda gunj .....	27	11	31	Ditto .....	The Serái in the villages.

Places.	Latitude.			Province or District.	Remarks.
	°	'	"		
Futigerh, (cantonment) ..					
Furkhābād .....	27	23	56	Doab .....	Outside the Delhi gate, and 3 furlongs N. W. of it.
Ghuria.....	27	28	33	Ditto .....	Village, right bank of the Ganges, in the Cadir.
Beitah .....	27	34	10	Ditto .....	Village in the Cadir of the Ganges.
Ahmed gunj .....	27	34	57	Ditto .....	Gunj in the Cadir.
Bawalpur .....	27	41	10	Ditto .....	Village in the Cadir.
Kidderpur .....	27	48	0	Ditto .....	Ditto ditto,
Suhawāhur .....	27	47	40	Ditto .....	N. W. side of the town, distant 1½ furlongs.
Lohia .....	27	34	27	Ditto .....	The old <i>gerhī</i> .
Ita .....	27	24	15	Ditto .....	Top, 2 furlongs S. E. of the town.
Nindauti .....	27	34	4	Ditto .....	The large <i>gunj</i> .
Sukeit .....	27	26	41	Ditto .....	N. W. angle of fort.
Awa.....	27	27	45	Ditto .....	Top, 4 furlongs west of HIRA SINGH'S formidable fort.
Jelāsar .....	27	29	14 5	Ditto .....	At the <i>līl gah</i> , 3 furlongs N. W. of the HARRA'S gate of the town.
Saidābād .....	27	26	54	Ditto .....	1 furlong N. W. of the fort.
Rai .....	27	33	24	Ditto .....	Large village, 6 miles from Muttra.
Baraulī .....	28	5	37	Ditto .....	Large village.
Shicupur .....	28	16	38	Ditto .....	N. side of the place.
Abdulpur .....	28	49	40	Ditto .....	Village on the road from Meerat to <i>Pa-reitthū ghar</i> .
Daulheri .....	28	56	15	Ditto .....	Village on the road from Meerat to <i>Baghpat</i> .
Baroad .....	29	5	33	Ditto .....	Small walled town in Bégum SUMROO'S <i>jāgir</i> .
Sirdanna .....	29	8	16	Ditto .....	Bégum SUMROO'S house.
Burhanna .....	29	18	10	Ditto .....	4 furlongs N. 10° west of the town, Bégum's <i>jāgir</i> .
Kinauni .....	29	27	21 5	Ditto .....	2 furlongs N. E. of the village, Bégum's <i>jāgir</i> .
Muzaffernagar .....	29	28	40	Doab, district Seharanpur	2 furlongs N. E. end of the town.
Nasirpur .....	29	44	14 7	Ditto .....	Village on the road from Muzaffarnagar to Hurdwar.
Jaurasi .....	29	49	2 1	Ditto .....	Ditto.
Deobhānd .....	29	40	52 5	Ditto .....	West side of the town, the large old brick fort distant 4 furlongs N. 60° E.
Rāmpur .....	29	48	9 7	Ditto .....	Camp—The mosque in the town, 4 furlongs S. W. on the road from Seharanpur to Delhi.
Saran .....	29	15	39 5	Ditto .....	At a <i>dergāh</i> , 1½ furlongs S. E. of the village, Bégum's district.
Rāmpur .....	29	16	4	Ditto .....	1 furlong S. E. of the village, Bégum's district.
Ghar Mukhteser ghāt ..	28	49	35 7	Doab, district Meerat ..	The ferry on the right bank of the Ganges.
Camaruddin nāgar.....	28	56	33 5	Ditto .....	West side of the village in the Cadir of the Ganges.

Places.	Latitude.			Province & District.	Remarks.
	°	'	"		
<i>Jaisinhpur</i> .....	29	2	32	<i>Doab, district Meerat</i> ..	Village on the high bank of the <i>Ganges</i> .
<i>Barámohána</i> .....	29	7	20	<i>Ditto</i> .....	Small old town N. W. side.
<i>Daurála</i> .....	29	7	30	<i>Ditto</i> .....	Village on the road from <i>Meerat</i> to <i>Seharanpur</i> —1 furlong S. of it. Windy, bad observation.
<i>Meerat, (cantonment)</i> ...	29	1	7	<i>Ditto</i> .....	Horse artillery lines—Dr. PHILLIPS' house.
<i>Hastinápur</i> .....	29	9	56	<i>Ditto</i> .....	Scite of part of the ancient city, mentioned in history, as having been once the capital of <i>Hindustán</i> . It stood on the right high bank of the <i>Ganges</i> , and has probably been swept away by the river.
<i>Dháránagar, (ferry)</i> .....	29	16	48.1	<i>Ditto</i> .....	At the ferry, right bank of the <i>Ganges</i> , opposite <i>Dháránagar</i> .—The mosque there bears 76° 40' N. E.
<i>Katauli, (town)</i> .....	29	17	3	<i>Ditto</i> .....	The north gate of the town, distant 3 furlongs N. E.
<i>Jansét, (town)</i> .....	29	19	57	<i>Ditto</i> .....	N. E. gate of the town.—This was once the seat of the famous <i>Saiyads</i> of <i>Bára</i> .
<i>Dáhtwála, (village)</i> ....	29	25	29	<i>Ditto</i> .....	Village in the <i>Cadir</i> of the <i>Ganges</i> .
<i>Suchatál</i> .....	29	28	54.1	<i>Ditto, Seharanpur</i> .....	East gate of the large intrenched camp of ZÁBITA KHAN, on the right high old bank of the <i>Ganges</i> .
<i>Bihári, (village)</i> .....	29	23	49	<i>Ditto</i> .....	Village between <i>Jansét</i> and <i>Muzeffernagar</i> .
<i>Nagal, (village)</i> .....	29	49	25	<i>Ditto</i> .....	Village between <i>Deoband'h</i> and <i>Seharanpur</i> .
<i>Sik'hpura, (small old town)</i>	29	54	45	<i>Ditto</i> .....	<i>Ditto ditto</i> .
<i>Seharanpur, (cantonment)</i>	29	59	1	<i>Ditto</i> .....	The left Sergeant's <i>bungalow</i> of the infantry lines, distant 1½ furlongs 66 N. E.
<i>Mangtur, (town)</i> .....	29	47	33	<i>Ditto</i> .....	The old brick fort, distant 5 furlongs S. 70 W.
<i>Toghápur, (village)</i> .....	29	36	13	<i>Ditto</i> .....	East side of the village, on the high old right bank of the <i>Ganges</i> .
<i>Firozpur</i> .....	29	29	31	<i>Ditto</i> .....	Small fort and village above <i>Suchatál</i> . At this place, it is supposed, TAIMUR crossed the <i>Ganges</i> .
<i>Bádshapur, (village)</i> ....	29	40	22	<i>Ditto</i> .....	Village and small fort in the <i>Cadir</i> of the <i>Ganges</i> .
<i>Láhpur</i> .....	29	43	53.3	<i>Ditto</i> .....	Village in the <i>Cadir</i> .
<i>Loksir</i> .....	29	45	25	<i>Ditto</i> .....	<i>Ditto ditto</i> .
<i>Jwálapur, (town)</i> ..	29	54	52	<i>Ditto</i> .....	½ furlongs east of the town.
<i>B'hojpur</i> .....	29	46	52	<i>Ditto</i> .....	Village and fort, right bank of the <i>Ganges</i> .
<i>Goverd'hanpur</i> .....	29	41	49	<i>Ditto</i> .....	Large village and small fort in the <i>Cadir</i> of the <i>Ganges</i> .

Places.	Latitude.			Province & District.	Remarks.
	°	'	"		
<i>Raiwala</i> , (village).....	30	0	44	<i>Dún</i> valley, within the first range of hills. The <i>Dún</i> , since the conquest, is attached to <i>Seharanpur</i> .	Brink of the rapid, right bank of the <i>Ganges</i> .
<i>Lak'ha ghát</i> , (ferry) ...	30	3	42	<i>Dún</i> .....	Right bank of the <i>Ganges</i> . This is the highest ferry on the river.
<i>Déhra</i> .....	30	19	11	<i>Ditto</i> .....	Gate of the temple.
<i>Keliépur</i> .....	30	5	32	<i>Doab—Seharanpur</i> ....	Small village on the road from <i>Seharanpur</i> to <i>Déhra</i> .
<i>Keri</i> .....	30	3	9	<i>Ditto</i> .....	Large village between <i>Seharanpur</i> and <i>Déhra</i> . A well at E. end of the village.
<i>Jeberhera</i> .....	29	48	7	<i>Ditto</i> .....	2 furlongs N. of the town wall. Bad observation.
<i>Rajapur</i> .....	30	0	1	<i>Ditto</i> .....	Village between <i>Daulatpur</i> and <i>Bhit</i> .
<i>Faizabad</i> .....	30	20	16.3	<i>Ditto</i> .....	Mosque at the village on the left bank of the <i>Jumna</i> , 6 furlongs S. of the ruins of the Emperor <i>SHAH JEHAN</i> 's hunting palace or <i>Padsha-mahal</i> , at the foot of the south range of hills, where the <i>Jumna</i> issues from them, as the <i>Ganges</i> opposite does at <i>Hurdwar</i> .
<i>Bur'his ghát</i> .....	30	6	9	<i>Ditto</i> .....	The ferry, left bank of the <i>Jumna</i> .
<i>Raipur</i> .....	30	13	44	<i>Ditto</i> .....	Large village on the old canal from the <i>Padsha-mahal</i> , to <i>Laung</i> opposite <i>Delhi</i> —3 furlongs N. of the village. Bad observation.
<i>Padsha-bagh</i> .....	30	20	8	<i>Ditto</i> .....	Halting place, and well at the S. W. mouth of the <i>Timli</i> pass through the hills into the <i>Dún</i> .
<i>Timli</i> .....	30	22	36	<i>Dún</i> valley.....	Large village in the <i>Sál</i> forest, 1½ furlongs N. of it.
<i>Hoorowala</i> .....	30	25	29.5	<i>Ditto</i> .....	Large village in the forest, N. side of the valley, on the slope of the <i>B'hadráj</i> mountain.
<i>B'hadráj</i> , (camp by the dell, higher on the slope of)	30	25	52	<i>Ditto</i> .....	Forest.
<i>Sainspur</i> .....	30	23	1.7	<i>Ditto</i> .....	Village on the <i>Ansa</i> river.
<i>Ráj ghát</i> .....	30	24	27	<i>Ditto</i> .....	Ferry on the left bank of the <i>Jumna</i> . Indifferent observation.
<i>Kírda</i> .....	30	27	5	<i>Sirmur</i> .....	Village in the <i>Kírda Dún</i> or valley.
Camp.....	30	31	35	<i>Ditto</i> .....	On the <i>Macaranda</i> or <i>Márcan'da</i> river, at the foot of the <i>Nahan</i> mountain.
<i>Chicherauli</i> .....	30	14	50	<i>Ditto</i> .....	Town in the <i>Sik'h</i> country, on the road from <i>Bur'his</i> to <i>Nahan</i> , belonging to <i>JOD'H SINH, KULSIA</i> .
<i>Seid'ura</i> .....	30	50	7	<i>Doab—Seharanpur</i> ....	Large village in the <i>Cádir</i> of the <i>Jumna</i> .
<i>Cun'a ghát</i> .....	29	44	34	<i>Ditto</i> .....	Ferry, left bank of the <i>Jumna</i> , near the village of <i>Béghi</i> .

Places.	Latitude.		Province & District.	Remarks.
	°	'		
<i>Basera</i> .....	29	29 51	<i>Doab—Seharanpur</i>	
<i>Kairana</i> .....	29	23 21	<i>Doab—Meerat</i> .....	At a building, in a tope of celebrated <i>mango</i> trees, the fruit of which is esteemed to be the best in <i>Hindustan</i> , and was appropriated to the use of the empètor. <i>Kairana</i> is an old town.
<i>Chapranli</i> , .....	29	12 56	<i>Ditto</i> .....	Large village S. W. side of it.
<i>Khas-gunj</i> , (cav. cant.)	27	49 36	<i>Doab—Coet</i> .....	Col. GARDNER'S house, 2 miles from <i>Khas-gunj</i> .
<i>Sicrole</i> .....	25	24 17	<i>Benares</i> .....	Mr. BIRD'S (the judge's) house near the bridge, at the station of <i>Sicrole</i> .
<i>Digga</i> .....	25	38 28	<i>Behar—Patna</i> .....	Col. GARDNER'S house at <i>Digga</i> , near <i>Dinapur</i> .
<i>Gopipur</i> .....	23	28 31	<i>Bengal, on the B'hágirathi branch of the Ganges.</i>	4 furlongs S. of the village, which is on the right bank of the river. The following observations, on the river to <i>Dinapur</i> , in <i>Tirhut</i> , and <i>Chemparan</i> , are from the means of meridian altitudes of the sun and stars, taken at the same time with reflecting circles, by myself and Captain BARTON, who was appointed my assistant in the survey.
<i>Aghadip</i> , (H) .....	23	37 12 3	H. <i>Ditto</i> .....	Left bank of the river, a <i>math</i> at S. end of the village, bearing E. 250 yards.
		2 6 B.		
	23	37 7 6		
<i>Bicki Hát</i> .....	23	36 28	H. <i>Ditto</i> .....	Large village on the river, right bank.
		38 B.		
	23	36 33		
<i>Sati</i> .....	23	58 13 6	B. <i>Ditto</i> .....	A village on the left bank, bearing W. 20 N. distant 4 furlongs.
<i>Rangamati</i> .....	24	1 19	<i>Ditto</i> .....	Village on the right bank.
<i>Berhampur</i> .....	24	5 39	<i>Ditto</i> .....	S. W. corner of the great square of the cantonment. These observations are not good, the weather being cloudy.
<i>Gadhái</i> .....	24	22 14 1	H. <i>Ditto</i> .....	Right bank—Village, where the small <i>Nulla</i> joins the river.
		16 5 B.		
	24	38 28 2	H. <i>Ditto</i>	4 furlongs N. of the sandy point, round which, boats now turn from the <i>B'hágirathi</i> into the great <i>Ganges</i> .
Place where the navigation of the <i>B'hágirathi</i> opened from the main river, in November 1814.)		25 7		
<i>Sivajpur</i> .....	24	50 51	<i>Beng. on the river Ganges.</i>	Remains of a village on the left bank of the river, near the ruins of <i>Gaur</i> . The <i>Cadam Resúl</i> there 68 N. E. distant about 3½ miles.
		48 5		
	24	50 49 7		

Places.	Latitude.			Province & District.	Remarks.
	°	'	"		
Madhupur .....	25	7	55	Bengal, on the river Ganges.	Village on the right bank. <i>Rāj-mahal</i> point E. 56 S. Windy, bad observation.
Right bank of the river, } near <i>Motijerna</i> cascade }	25	12	51	Ditto	The note of the bearing of the cascade is mislaid, but must be nearly west. Barometer 29, 94—Ther. 74.
<i>Gangāpersād</i> .....	25	15	31.2	H. Ditto .....	Under the village, and high right bank of the river. The high hill over <i>Teria gāḷi</i> bearing west 0° 40' north.
<i>Sicri gāḷi</i> , (B.) .....	25	14	56.5	Ditto .....	SAIYAD AHMED'S tomb on the top of the hill, right bank.
			15 1.3		
			14 58.9		
Near <i>Colgong</i> .....	25	16	33	H. Ditto .....	Right bank. The indigo planter's white house, distant 200 yards E. Large house on the hill 217°. Tree on the lower rock 232°. (S. 52 E.)
			38	B.	
<i>Bhagalpur</i> or <i>Boglipur</i> .....	25	15	18.5	H. Ditto .....	The temple of MAHADEVYA on the right bank of the arms of the Ganges, which flows under <i>Boglipur</i> , and nearly in the center of the town.
			9.1	B.	
(Mean).....			13.8		
<i>Deriapur</i> .....	25	22	52.6	H. Behar, on the Ganges	Town, right bank of the Ganges. The <i>Byar</i> creek, which leaves the <i>Gan'daca</i> river at <i>Karnaui</i> , in <i>Tirhut</i> , joins the Ganges, across the river, due east.
			23 1.5		
			22 57.5		
<i>Moar</i> .....	25	25	41	Ditto .....	Village, right bank. Indifferent observation.
<i>Fetwa</i> .....	25	30	34.8	H. Ditto .....	Town on the right bank. The mouth of the <i>Pampon</i> river 3½ furlongs W. 10 N. The <i>mat h</i> 150 yards E. 20 S.
			24.5	B.	
<i>Dinapur</i> , (cantonment)...	25	38	12	Ditto .....	Flag staff 1¼ furlongs, bears S. 40 E. Bar. 30, 03.—Ther. 68.
<i>Seerpur</i> , (ferry) .....	25	40	8	Ditto .....	The ferry, where Major General MAULEY'S division crossed. Flag staff at <i>Dinapur</i> 116°. <i>Seerpur</i> 187°. Here we leave the Ganges, and proceed with the army to the <i>Népāl</i> frontier.
Camp, above the left bank,	25	40	15.7	H. Ditto .....	Head quarters, 29th November.
			19	B.	
			17.3		
<i>Mirzapur</i> , (camp near) ..	25	48	6.6	Behar.....	5 furlongs N. W. of the village, on the <i>Mai Nulla</i> , a creek from the <i>Gan'daca</i> .
<i>Amnaul</i> .....	25	59	28.9	Ditto .....	Large village.—Camp—The village distant 1 <sup>m</sup> 3 furlongs, and S. 30 east.
			38.1		
			33.6		
Camp, left bank of the } <i>Gan'dac</i> .....	26	4	48.2	Ditto <i>Tirhut</i>	1¼ furlongs above <i>Futipur</i> ferry. Breadth of the <i>Gan'dac</i> here, 530 yards.



Places.	Latitude.			Province & District.	Remarks.
	°	'	"		
Camp near Goers .....	26	8 47	4	Behar--Tirhut	Camp, 5 furlongs N. E. of the village on the <i>Byar</i> creek.
			42		
			44		
Chynpur .....	26	15 10	1	H. Ditto .....	Camp, 9 furlongs N. 14° west of the village.
			5	B.	
Bridge of boats over the } Berha Gan'dac river }	26	24 21	9	H. Ditto .....	Camp, near the village of <i>Cáthara</i> , distant 7 furlongs N. 83° E. on the left bank of the little or old <i>Gan'dac</i> , which is called higher up the <i>Sibrava</i> river. At the bridge, the river was 93 yards wide, and 6 to 9 feet deep.
			26	B.	
Camp near Mejanki ..	26	30 13		H. Ditto .....	Camp, on the left bank of the <i>Bukia</i> river, near the village. Not good observations, on account of the camp smoke.
			22	B.	
Dacca ..	26	40 51		H. Ditto .....	Camp, 2 furlongs N. 15 east of the village. These 2 sights differ 28" which is more than usual; but in a large camp, observations are liable to be hurt by the smoke, and the trampling of men and cattle.
			23	B.	
Gorasén ..	26	49 37	7	H. Ditto .....	Camp, left bank of the <i>Bukia</i> , opposite side to <i>Gorasén</i> . Tolerable observation, but much smoke.
			26	B.	
Camp near Jitpur ..	26	48 8	7	H. Behar--Chemparan	Camp between the <i>Jumni</i> river, and <i>Tir-sulla</i> . Village of <i>Jitpur</i> , distant 6 furlongs, W. 56 N.
			13	B. (In the Terai)	
	26	48 11	1		
Lowten, (camp) ..	27	1 6	4	H. Ditto .....	The <i>Bulwa-sulla</i> is on the right flank of the camp, and the fort <i>Barsger'hi</i> is distant 2° 1' E. 8° S. This latitude is the mean of various observations of the sun and stars.
			4	B.	
	27	1 5	5		
Alown, (camp) ..	27	2 5		H. Ditto .....	Camp, on the left bank of the <i>Berha</i> river. Ruins of the small fort of <i>Alown</i> (across the <i>Berha</i> ) 3 furlongs, and east 50 S. At this camp, Captain <i>SHELBY</i> , and the artillery men killed at <i>Persa</i> , were buried.
			16	B.	
	27	2 10	6		
Amerpati, (camp) ..	26	59 41	5	Ditto .....	Camp, on the left bank of the <i>Gaad</i> river, near the hamlet of <i>Amerpati</i> .
			41		
			51		
Mohan, (camp) ..	27	5 40		Ditto .....	Left bank of the <i>Gaad</i> river. The small village of <i>Mohan</i> 310°
			33		
	27	5 36	5		
Belhai, (camp) ..	26	59 37		H. Ditto .....	The small village of <i>Belhai</i> , distant 5 furlongs, bearing 247°.
			29	B.	

Places.	Latitude.			Province & District.	Remarks.
	°	'	"		
<i>Baura</i> , (camp) . . . . .	27	2	19·8	H. <i>Behar—Chemparan</i>	At the large tank or <i>pokra</i> , on the right of the line. This was the <i>Népál</i> boundary.
		2	8·6	B. (In the <i>Terái</i> )	
<i>Bettiah</i> . . . . .	27	2	14·2	H. <i>Ditto</i> . . . . .	Tent near the south gate of the town, distant 340 yards N. 65 E. the <i>Rájá's</i> house 66°. 20'. The town wall 348' to 78°. Mean of crossed observations of the Sun's Rigel and Sirius.
	26	47	56·8		
	26	47	52·1		
<i>Berherwa</i> , (camp) . . . . .	27	3	23·2	<i>Ditto</i> . . . . .	Camp of the division near the small village of <i>Berherwa</i> in the <i>Terái</i> .
			8·4		
<i>Banjari pokra</i> , (camp) . . . . .	27	3	15·8	H. & B. . . . .	Camp of the division, the left flank on the large tank, and the right on a deep small <i>nulla</i> ; a strong position.
	27	2	20·2		
<i>Korberwa</i> . . . . .	26	54	6·5	<i>Ditto</i> . . . . .	Tank near the village, 10 miles from <i>Banjari pokra</i> , on the <i>Sigauli</i> road.
<i>Sinhásani</i> . . . . .	26	50	51	<i>Ditto</i> . . . . .	Tent at the <i>Berga</i> tree, on the south side of the village.
<i>Sigauli</i> . . . . .	26	45	31·8	<i>Ditto</i> . . . . .	2 furlongs east of the village.
<i>Bettiah</i> . . . . .	26	48	14·2	<i>Ditto</i> . . . . .	Tent at the east gate of the town. The <i>Rájá's</i> house bearing 284°. Mean of several sets of observations.
<i>Adhepur pokra</i> . . . . .	26	56	16	H. <i>Ditto</i> . . . . .	The great tank, where 2 companies had been cantoned.
			3	B.	
<i>Cachirwa</i> . . . . .	26	56	9·5	H. <i>Ditto</i> . . . . .	East side of the village, which is on the <i>Bukia</i> river.
	26	52	44·7		
		53	3·9		
<i>Jounkunwa</i> . . . . .	26	52	54·3	H. <i>Ditto</i> . . . . .	Large village, 10 <sup>m</sup> 2' from <i>Cachirwa</i> , and 2 <sup>m</sup> 5' from <i>Berherwa</i> , where the <i>Gorc'ha</i> post under <i>PARAS'URÁM</i> <i>ТНХРА</i> was surprised.
	26	48	22·2		
			18·7		
<i>Joopur</i> . . . . .	26	47	20·4	H. <i>Ditto</i> . . . . .	Mango <i>tope</i> , west of the village.
			19·9		
			18·7		
<i>Matiári</i> . . . . .	26	39	19·21	H. <i>Ditto</i> . . . . .	Tent at the great <i>Pákher</i> tree, at the edge of the <i>mun</i> or deep <i>j'hil</i> , west side of the village.
			10·4		
			13·7		
<i>Semuric</i> . . . . .	26	41	43·7	H. <i>Ditto</i> . . . . .	West side of the village, in the <i>tope</i> .
			40·3	B.	
<i>Ticaulin</i> . . . . .	26	56	24·5	H. <i>Ditto</i> . . . . .	Mango <i>tope</i> , east end of the village.
			23	B.	

Places.	Latitude.			Province & District.	Remarks.
	°	'	"		
Ramnagar.....	27	10	0.6	H. Behar—Chempāran B. (In the Terāi)	Mango <i>tope</i> , 5 furlongs N. W. of the town of <i>Ramnagar</i> , which is a considerable place, and inhabited by the exiled hill <i>Rājā</i> of <i>Tancu</i> , and his followers.
		9	57		
			58.8		
Boggah.....	27	5	16	Ditto.....	Great tree at S. W. side of the town, which is on the left bank of the <i>Gan'dac</i> river. Indifferent observation.
Sewméser, (mountain)..	27	22	27	Ditto.....	Small fort on the summit of the mountain, which is 2270 feet above the <i>Terāi</i> , which it divides from the <i>Chitaun</i> valley, through which the <i>Rapti</i> river flows to the <i>Gan'dac</i> . If a fort were built by us here, it would at all times ensure a passage from the <i>Terāi</i> into the above valley.
Tirkelwa.....	27	0	6	Ditto.....	Village, tent by the side of the <i>Herher</i> river.
Gobindgunj.....	26	28	58	Ditto.....	Large mart and ferry, on the left bank of the <i>Gan'dac</i> river. At this period, Captain <i>BARRON</i> having left me to join his regiment, the following observations were taken by me alone.
Pippera.....	26	33	1	Bettiah.....	Mr. <i>GLEGG</i> 's indigo factory.
Calyāmpur.....	26	25	58.5	Ditto.....	N. E. end of the village.
Ancient Hindu tumulus or mound near <i>Kisseria</i> }	26	19	28	Ditto.....	3 furlongs from the mound, and S. 39. west of it.
Karnaui.....	26	16	33	Tirhut.....	5 furlongs east of the town, which is on the <i>Gan'dac</i> .
Motipur.....	26	15	34	Ditto.....	Mr. <i>WOOD</i> 's indigo factory.
Bistaukia.....	26	10	30	Ditto.....	Large tree near the village.
Serrya.....	25	2	4	Ditto.....	Indigo factory on the <i>Byar</i> creek.
Serrya.....	25	46	20	Ditto.....	Village, first stage from <i>Hājipur</i> towards <i>Muzafferpur</i> .
(On the Ganges from Di- napur to Cawanpore.)					
Mouth of the <i>Gogra</i> or <i>Dewah</i> river }	25	47	19.5	Ditto.....	Confluence of the great river <i>Gogra</i> with the <i>Ganges</i> at <i>Semuria</i> . The great <i>Berghet</i> tree bears 312°, distant 1 <sup>m</sup> . 1'. Course of the <i>Gogra</i> up 298°, of the <i>Ganges</i> 216°.
Noka and Udown Chepra	25	40	42	Ditto.....	Great tree at <i>Noka</i> and <i>Udown Chepra</i> ; 2 villages on the left bank. The <i>Ganges</i> up 219°, down 85 for 6 furlongs, then 100°. Channel deep.—Bank high.—
Ekauna.....	25	39	37	Ditto.....	Right bank near <i>Ekauna</i> , river up 329° for 1 mile, down 140°.
Anjaurpur.....	25	11	34	Ditto.....	Village of <i>Anjaurpur</i> 296° 3 furlongs on branch of the <i>Ganges</i> . Course up 210°.

Places.	Latitude.			Province & District.	Remarks.
	°	'	"		
Buzar, (flag staff in the fort).....	25	34	35	Tirhut .....	Right bank of <i>Ganges</i> .
Ghazipur .....	25	33	50	Ditto .....	250 yards below the <i>Chikelsitán</i> palace.
Left bank of the <i>Ganges</i> ..	25	30	40	Ditto .....	S. east end of <i>Ghazipur</i> cantonment 41°. The <i>Chikelsitán</i> 48°, distant about 6 miles.
Zemeria .....	25	24	47	Ditto .....	Indigo works on the right bank. River up 212° to 235° and 240°.
Left high bank .....	25	29	45	Ditto .....	<i>Sahibpur</i> , N. right bank opposite 230° 7 furlongs, <i>Nidra</i> 274°, <i>Phulwaria</i> 209°.
Right bank below <i>Benares</i> ..	25	15	54	Ditto .....	Sands— <i>Surar</i> village 283°. 3 m. river's course up 282°, down 100°.
<i>Benares</i> .....	25	17	58	Ditto .....	Sand on the right bank, opposite the city. Center of the dome of the great mosque 13°. 14 <i>Stóla</i> temple 230°. 19 — River front bastion of <i>Ramnagar</i> 161°. 38.
<i>Chunar</i> .....	25	7	30	Ditto .....	At the ferry N. of the fort. The flag staff 18°. S. W. corner bastion 83.
<i>Chepur</i> .....	25	12	17	Ditto .....	High right bank of the river, under the village of <i>Chepur</i> . The large village of <i>Betauli</i> distant 1 <sup>m</sup> . 1. f. and bears 116 lower down the river. Many troublesome sands in the river here.
<i>Mirzapur</i> .....	25	9	43	River <i>Ganges</i> .....	Dr. TURNBULL'S house and factory, on the high right bank of the river.
<i>Bijraul</i> .....	25	16	5	Ditto .....	Under the <i>Stóla</i> and village, right bank of the river. At this place is a ledge of <i>konker</i> rocks, and a very strong current, dangerous to boats.
<i>Chandni</i> .....	25	20	55	Ditto .....	High right bank, at the small village of <i>Chandni</i> . Highest building in the fort of <i>Allahabad</i> 331°. 10.
<i>Serái</i> .....	25	30	31	<i>Oude</i> .....	Left bank. <i>Serái</i> village 9°. 6 furlongs. Bungalow on high point at <i>Ougenic</i> , right bank 263°, river up 285°. down 130°.
<i>Subadar ka perwa</i> .....	25	31	37	Ditto .....	Left bank. <i>Sinhori</i> 122°—Stone <i>ghát</i> at <i>Jehanabad</i> 259, <i>Busiri</i> 210. River up 255°.
<i>Palhanna</i> .....	25	34	24	<i>Doab</i> .....	<i>Palhanna</i> , large village with a <i>Stóla melh</i> , right bank.
<i>Manicpur</i> .....	26	46	16	<i>Oude</i> .....	Left bank, below the high old fort.
<i>Dalmow</i> .....	26	3	58	Ditto .....	Sand on the right bank, upper stone <i>ghát</i> in the town across 351°, center <i>ghát</i> 9°, lower 31°. Transit of Mercury. The preceding limb of the planet going off, touched the sun's exterior limb, at mean time 22 <sup>m</sup> 15 <sup>m</sup> 44'. 40 <sup>m</sup> . 5. 11 <sup>m</sup> November, 1815.

Places.	Latitude.			Province & District.	Remarks.
	°	'	"		
<i>Bilaura</i> .....	25	53	3	<i>Doab</i> .....	Right bank. <i>Ghát</i> at N. E. corner of a large <i>tope</i> , 5 furlongs below the town of <i>Bilaura</i> .
<i>Buxar</i> .....	26	8	3	<i>Ganges—Oude</i> .....	The <i>ghát</i> at <i>Buxar</i> , a large village, left bank. <i>Surajpur</i> , lowest white building in the town, 294°, about 4¼ miles.
<i>Cawnpore</i> , (cantonment) .....	26	28	23	<i>Doab</i> .....	Major MACPHERSON'S <i>bungalow</i> , formerly the brigade office, near the artillery depot.
(Here, leave the <i>Ganges</i> , and proceed up the <i>Doab</i> to <i>Seharanpur</i> .)					
<i>Chaubépur</i> .....	26	36	59	<i>Doab</i> .....	S. side of the village.
<i>Pourwa</i> .....	26	44	26	<i>Ditto</i> .....	2 furlongs N. W. of the village.
<i>Meeran-cí-Serái</i> .....	27	1	58	<i>Ditto</i> .....	Small <i>tope</i> , 1½ furlongs N. W. of the <i>Serái</i> .
<i>Jelalabad</i> .....	27	6	9	<i>Ditto</i> .....	Indigo vats, 1 furlong W. 20° N. of the village.
<i>Khoda gunj</i> .....	27	11	23	<i>Ditto</i> .....	1½ furlongs N. W. of the <i>Serái</i> , on the <i>Futigerh</i> road.
<i>Futigerh</i> , (cantonment) .....	27	21	47	<i>Ditto</i> .....	Large red <i>bungalow</i> (2d range from the river); formerly Mr. BUSH'S shop.
<i>Arjunpur</i> .....	27	41	7	<i>Ditto</i> .....	East side of the village.
<i>Khas gunj</i> .....	27	48	42	<i>Ditto</i> .....	<sup>A</sup> <i>lidgah</i> , 1½ furlongs from the west gate of the town.
<i>Jerrari</i> .....	27	47	0	<i>Ditto</i> .....	1½ furlongs west of the village.
<i>Coel</i> , (civil station) .....	27	53	55	<i>Ditto</i> .....	Near the tombs of the officers killed at <i>Aligerh</i> , and one mile N. of the <i>Delhi</i> gate of <i>Coel</i> city. <i>Aligerh</i> fort distant 2 <sup>m</sup> . 3 <sup>ur</sup> .
<i>Sopnna</i> .....	28	3	16	<i>Doab—Coel</i> .....	Indigo vats, 3 furlongs from the village on <i>Aligerh</i> side.
<i>Koorja</i> .....	28	15	42	<i>Ditto</i> .....	1 furlong N. of N. E. end of <i>Koorja</i> , which is a large old <i>Saiyad</i> town.
<i>Gullouti</i> .....	28	35	37	<i>Doab—Seharanpur S.</i> <i>division</i> .....	N. gate of the village.
<i>Hauser</i> .....	28	43	28	<i>Ditto</i> .....	Captain HUNTER'S house, at N. gate of the town.
<i>Rohanna</i> .....	29	35	40	<i>Ditto—N. division</i> .....	Pond, N. E. end of the village.
<i>Deobhund</i> .....	29	42	17	<i>Ditto</i> .....	Old mosque and pond, 4 furlongs N. 30° west of the N. side of the town, on <i>Seharanpur</i> road.
Civil station, near <i>Seharan-</i> <i>pur</i> .....	29	57	9.5	<i>Ditto</i> .....	House of Mr. GRINDALE, the magistrate, by 61 observations of the sun and stars.

Places.	Latitude.			Province & District.	Remarks.	
	°	'	"			
<i>(The following are within the mountains, conquered from the Gorchas.)</i>						
<i>Ambári</i> .....	30	28	57	<i>Dún valley</i> .....	Bank of the <i>Jumna</i> , east side of the village.	
<i>Cálsi</i> .....	30	31	24	<i>Jaunsar</i> .....	Small town, within the mountains, and between the <i>Tonse</i> and <i>Jumna</i> rivers.	
<i>Runtum</i> .....	30	31	59	<i>Ditto</i> .....	Small deserted fort on the mountain, above <i>Cálsi</i> .	
<i>Bairat</i> .....	30	34	31	7	<i>Ditto</i> .....	Fort, on the high peak of the mountain.
<i>Nahan</i> , (the capital of <i>Sirmor</i> ) .....	30	33	21	<i>Sirmor</i> .....	Captain WILSON'S house.	
<i>Jaitac</i> , (fort) .....	30	35	3	<i>Ditto</i> .....	100 yards N. W. of the fort.	
<i>(The following are Latitudes of places in the mountains of Sirmor, Jubal, Keounthul, Comarsén, Biseher and Canaur, between the rivers Tonse and Sellej.)</i>						
<i>Shúngrá</i> .....	30	41	36	<i>Ditto</i> .....	Walnut trees— <i>Shúngrá</i> is the chief village of the district, on N. face of the mountain, which bounds the <i>Giri gangá</i> to the N.	
<i>(The following are on the Haripur road to Jubal.)</i>						
<i>Underi</i> .....	30	42	37	<i>Ditto</i> .....	Large village, side of mountain, <i>Chaur</i> peak 7° 10.	
<i>Bowai</i> .....	30	45	7	<i>Ditto</i> .....	Large village, at the foot of one of the S. E. spurs of the <i>Chaur</i> mountain.	
<i>Culag</i> .....	30	47	8	<i>Ditto</i> .....	Village and small fort, foot of a S. eastern spur of the <i>Chaur</i> .	
<i>Cherauli</i> .....	30	49	17	<i>Júbal</i> .....	Village, between spurs of the <i>Chaur</i> .	
<i>Ballou</i> .....	30	51	4	<i>Ditto</i> .....	Small village, N. eastern spurs of the <i>Chaur</i> .	
<i>Lingjhar</i> .....	30	53	53	<i>Ditto</i> .....	N. N. E. spur of the <i>Chaur</i> .	
<i>Choug</i> .....	30	49	50	<i>Sirmor</i> .....	Village on S. W. spur of the <i>Chaur</i> , on the <i>Mushiur</i> rivulet, which joins the <i>Giri gangá</i> .	
<i>Thor</i> .....	30	46	42	<i>Ditto</i> .....	Small village on the <i>Giri gangá</i> , at N. foot of the <i>Sén-cí-Dhar</i> mountain.	
<i>Dinga Cinga</i> .....	30	42	7	<i>Ditto</i> .....	Village on the ridge of the <i>Sén-cí-Dhar</i> range. Bad observation.	
<i>Burj-cí-Téba</i> .....	30	42	12	<i>Ditto</i> .....	Halting place, near stockade on the <i>Burj</i> mountain, which is a continuation of the <i>Jaitac</i> range road, <i>Nahan</i> to <i>Sabatta</i> .	

Places.	Latitude.			Province & District.	Remarks.
	°	'	"		
<i>Tih-á-Daber</i> .....	30	49	21	<i>Bughat</i> .....	Halting place, at N. W. foot of the <i>Burj-á-Tiba</i> .
<i>Mia-cá-gaon</i> .....	30	54	32	<i>Ditto</i> .....	Village between the mountains.
<i>Sabattu</i> .....	30	58	24	<i>Keounthul</i> .....	British cantonment of the 1st <i>Nuserie</i> battalion of <i>Gorc'has</i> .
<i>Haripur</i> .....	31	0	53	<i>Ditto</i> .....	Village on the <i>Gambhír</i> river, road <i>Sabattu</i> to <i>Cot ghur</i> .
<i>Serie</i> .....	31	4	54	<i>Ditto</i> .....	Deserted village, on slope of the mountain.
<i>Bunni Chokey</i> .....	31	5	53	<i>Ditto</i> .....	Halting place, near <i>Phaghun</i> , on ridge of the mountain— <i>Chaur</i> peak 146° 20
<i>Theog</i> .....	31	6	45	<i>Ditto</i> .....	On ridge of the mountain, the small fort distant 300 y. 237 f. — <i>Chaur</i> high peak 159° 05. <i>Nagni</i> fort 118°. The <i>Giri gangá</i> about 5000 feet below.
<i>Maliana</i> .....	31	11	34	<i>Comarsén</i> .....	Village between mountains — <i>Chaur</i> high peak 168° 50. <i>Nagni</i> 166° 31.
<i>Kundroon</i> .....	31	14	25	<i>Ditto</i> .....	Village in deep dell, west of the fort on <i>Wartoo</i> mountain. <i>Wartoo</i> fort 82° 9.
<i>Cot ghur</i> .....	31	19	29	<i>Ditto</i> .....	British cantonment of the 2d <i>Nuserie</i> battalion of <i>Gorc'has</i> , on slope of the mountain, about 5000 feet above the left bank of the <i>Setlej</i> .
<i>Birt</i> .....	31	21	46	<i>Bissher</i> .....	Village on the left shore of the river <i>Setlej</i> , which is confined in a narrow bed by steep mountains; of rock of great height.
<i>Rampur</i> .....	31	26	22.7	<i>Ditto</i> .....	<i>Rampur</i> is the capital of <i>Bissher</i> , and the winter residence of the <i>Rájá</i> . It has much fallen to decay, and at present has only about 150 mean houses, and some better, belonging to the <i>Rájá</i> . It stands on the left bank of the <i>Setlej</i> , which is 210 feet wide, in June very rapid; it is crossed by a rope stretched across to the opposite or <i>Culau</i> side. The river is confined by exceedingly steep and lofty mountains of rock. The heat at <i>Rampur</i> , is excessive.
<i>Dhar</i> .....	31	28	53	<i>Ditto</i> .....	Village, left bank of <i>Setlej</i> , and about 4000 feet above it.
<i>Muzonka</i> .....	31	28	40	<i>Ditto</i> .....	Village on rivulet, and in glen of some name, reaching from the <i>Setlej</i> to the snowy peaks.

Places.	Latitude.			Province & District.	Remarks.
	°	'	"		
<i>Seraén</i> .....	31	30	19	<i>Bisheer</i> .....	Walnut tree, near the <i>Rájá's</i> house. <i>Seraén</i> is about 4500 feet above the <i>Setlej</i> , and is the summer residence of the <i>Rájá</i> ;—a pleasant situation on the mountain side;—it is only a village. The <i>Rájá's</i> house is high, and built in the <i>Chinese</i> form, as usual in these mountains.
<i>Tranda</i> .....	31	33	42	<i>Canaur</i> .....	Village, high above the <i>Setlej</i> . <i>Canaur</i> is that remote and rugged province of <i>Bisheer</i> , which is within the <i>Himálaga</i> , and on the <i>Setlej</i> river.
<i>Kungoas</i> .....	31	32	51	<i>Ditto</i> .....	Left bank of <i>Setlej</i> , and high above it; the river is confined by mural precipices.
<i>Nichar</i> .....	31	33	15	<i>Ditto</i> .....	Do. Do.
<i>Boara</i> .....	31	32	46	<i>Ditto</i> .....	Village, in high glen of the <i>Saldang</i> river, which falls from the N. side of the snowy peaks to the <i>Setlej</i> . This village, and the others of <i>Canaur</i> , are in snow the greater part of the year. Here I turned to S. E. and began the great ascent of the N. face of the S. ridge of the <i>Himálaga</i> .
Pass over the Snowy } Range .....	31	29	25	<i>Ditto</i> .....	24th June, 1816. In the snow, and between the cliffs of the <i>Himálaga</i> , at the immediate foot of the <i>Paswari</i> pass over the snowy range from <i>Canaur</i> into <i>Swarra</i> , and on N. side of the pass. This place is confined by cliffs, which rise perpendicularly above it, to the height of 3736 feet. Water boiled at 190° of Fahrenheit. I crossed the ridge on the 25th June, at 11 a. m. in a heavy shower of snow.
<i>Touthis</i> .....	31	15	19	<i>Bisheer</i> .....	Village on the <i>Indravati</i> river, which falls into the <i>Paber</i> .
<i>Rorou</i> ..	31	11	35	<i>Ditto</i> .....	Large village on the <i>Paber</i> river, which joins the <i>Tonse</i> near <i>Raghai</i> .
<i>Hurneoul</i> .....	31	57	29	<i>Ditto</i> .....	Large village in the <i>Nora</i> district.
<i>Wartoo</i> , (fort) .....	31	14	44	<i>Comarsén</i> .....	<i>Wartu</i> or <i>Hurtu</i> mountain, 7°. 3'. S. E. of <i>Cotghur</i> . Height of the mountain above the sea, about 10,060 feet. During a residence of 7 days on this peak, in July, I could only get one observation for the latitude, and that a bad one, the mountain being enveloped in dense clouds.



Places.	Latitude.			Province & District.	Remarks.
	°	'	"		
(On or near the river Jumna, within the mountains of Jaunsar, Sirmor, and Rewari.)					
Bairat, (fort) . . . . .	30	34	31.7	Jaunsar . . . . .	Fort, on the high peak of the mountain, 3 m. west of the Jumna.
Murlang . . . . .	30	36	53	Ditto . . . . .	Village, in the glen on the Silgad river, which joins the Jumna, 5 miles east.
Lakha-man'd'al . . . . .	30	43	24	Sirmor . . . . .	Right bank of the Jumna. Lakha-man'd'al is said to have been a place famed in Hindu story, as one of the favorite haunts of the <i>Parid'us</i> . There were a great number of temples and idols here, but they appear, in a great measure, to have been buried by a slip of the side of a mountain, which overhangs their scite.
Paunti . . . . .	30	48	8	Rewari . . . . .	Village, on right bank of Jumna, and 400 feet above it. Rewari is the upper division of Gerhwal, and chiefly subject to the Gerhwal Rájá.
Gtra . . . . .	30	52	8	Ditto . . . . .	Village, on the side of the mountain, in the Banaulglen, 5 <sup>m</sup> . 7'. from the right bank of the Jumna.
Thanno . . . . .	30	49	12	Ditto . . . . .	Small village, right bank of the Jumna, and 400 feet above it. Cross the river on a low <i>Sungka</i> — Breadth of the river, 40 feet, but deep, and falling in cataracts.
Janautri . . . . .	30	51	35	Ditto . . . . .	Small village, left bank of the Jumna.
Of'hir'ghur or Wast'ghur . . . . .	30	54	47	Ditto . . . . .	Right bank of the river, small hamlet, 500 feet above the stream, which is confined by mural precipices of great height. A small fort here. Most of the villages in this neighbourhood were buried by the fall of the cliffs above, in the earthquake of 1803.
Banassa . . . . .	30	56	50	Ditto . . . . .	Bad and uncertain observation. Weather thick. Small village, at the confluence of the Banassa river with the Jumna. There are 10 houses here; the rest were buried, last year, by a slip of the precipices. Appt. alt. of <i>Janautri</i> east snowy peak, as seen hence, 15°. 34'. 45"; of west peak 17°. 15'. 30".
Curs'áli . . . . .	30	57	37	Ditto . . . . .	Left bank of Jumna, here 17 feet wide, and knee deep. <i>Curs'áli</i> is at the foot of the <i>Janautri</i> snowy peaks, and 3 miles from <i>Janautri</i> . In the latter end of April, the snow was 2 feet deep in shaded places in the village. There are about 25 houses.

Places.	Latitude.			Province & District.	Remarks.
	°	'	"		
<i>Jumnautri</i> .....	30	59	10	<i>Rewaen</i> .....	The head of the <i>Jumna</i> , at the foot of steep snowy mountains of <i>Jumnautri</i> . The stream was 3 feet wide, and a few inches deep, formed by the melting of the mass of snow, which overlaid the bed, by the steam of the extensive and powerful hot springs, which are here. The bed of snow, concealing the stream, was 40 feet $0\frac{1}{2}$ inch in thickness. I descended to the bed of the stream, by a hole in the snow bed, made by the hot steam. Various domes and excavations in the snow, over-arch the <i>Jumna</i> ;—they are caused by the hot steam. The bed of the stream, for the last $1\frac{1}{2}$ miles, is wholly concealed by deep snow; it is bounded by high mural precipices, at the distance of 50 to 100 yards asunder. Lat. by 8 sets of circum-meridional alts. of ☉. A bad barometer stood at 20.4.—Air 62°.—Mercury 37° (in snow) 21st April, 1817.
( <i>Jumnautri to Gangautri, &amp;c.</i> ) <i>Shilba</i> .....	30	49	12	<i>Ditto</i> .....	Deserted village, in the <i>Shilba</i> glen, which runs from the <i>Jumna</i> to the crest of the <i>Jackeni ghát</i> , on the range which separates the <i>Jumna</i> and <i>Ganges</i> .
<i>Singha</i> .....	30	44	53	<i>Ditto</i> .....	Village, right bank of the <i>Ganges</i> , or <i>Bhágira'hí</i> river, and 1000 feet above it;—is 13°. 5'. above <i>Barahat</i> , and 5°. 2'. below <i>Reital</i> . Intermediate latitudes, lost by bad weather.
<i>Reital</i> .....	30	48	28.3	<i>Ditto</i> .....	Large village, $1\frac{1}{2}$ mile from the <i>Ganges</i> ' right bank, and about 1200 feet above it. Above the sea, by barometer, 7108 feet. Beyond <i>Reital</i> , the course of the <i>Ganges</i> is through the most rugged region, perhaps, in the world. Water boiled at 200°. 5.
<i>Dangul</i> .....	30	54	32.8	Ha. <i>Ditto</i> .....	Halting place.
			28.8	Ht. <i>Ditto</i> .....	Left bank of the <i>Ganges</i> , at the <i>Sungha</i> or spar bridge. Breadth of the river, 50 feet—No inhabitants—Mural precipices bound the stream—Water boils at 202°—Distant from <i>Reital</i> 35, 126 paces. Lieut. HERBERT, Assistant Surveyor, joined me at <i>Reital</i> .

Places.	Latitude.		Province & District.	Remarks.
	°	'		
Suc'hi .....	30	59' 40.2	Hn. Rewacn. ....	Small village, 1000 feet above the right bank of the river, where it breaks through those snowy mountains, which are seen from the <i>Doab</i> height of <i>Suc'hi</i> . Above the sea 8494 feet, by barometer. Water boiled at 199°.
		40	Ht.	
Camp at cedar trees, .....	31	2 25.3	Hn. Ditto .....	Left bank of the river, within the snowy range, and at N. foot of <i>S'ri Cánta</i> , and <i>Sewmurchu Chaunta</i> snowy peaks. Bed of the <i>Ganges</i> , above the sea, nearly 8000 feet.
		8	Ht.	
Derali .....	30	2 34	Ditto .....	Left bank. Village of 6 houses, deserted. Above <i>Suc'hi</i> and <i>Jhala</i> , there are no inhabitants;—beyond <i>Derali</i> it is not habitable;—all rock and snow.
Bhairo-ghátí .....	31	1 38.7	Ht. Ditto .....	Right bank, at the confluence of the <i>B'hágiráthí</i> (or <i>Ganges</i> ) and the <i>Jaháwí</i> river, near the <i>Sangha</i> , and under precipices of vast height. A dangerous halting place.
Do .....	31	1 22.5	Ditto .....	Left bank. Cliff above the <i>Sangha</i> . Cedar trees.
Gangautri .....	30	59 29	Ditto .....	HODGSON'S mean of $\alpha$ and $\beta$ Libra—
		35.5		Ref. circle. HERBERT'S <i>Spica</i> , $\alpha$ , and $\beta$ Libra—(two nights)—Sextant.
		27.1		HODGSON'S eight circum-meridional; alts. of <i>Spica</i> .
Mean .....	30	59 30.5		Side of the <i>Ganges</i> , here, 43 feet wide, and 18 inches deep,—strong current, 26th May, 1817. Height above the sea, 10,073 feet: this may perhaps be 2 or 300 feet more than the truth, as the mercury in the barometers was not well boiled in the tubes.
Near the <i>debouche</i> of the <i>Ganges</i> from the great snow bed .....	33	56 32.5	Ditto .....	HODGSON by $\alpha$ and $\beta$ <i>Ursa minoris</i> —
		37.5		Ref. circle.
Mean .....	30	56 34.5		HERBERT'S do. do. Sextant.
				At a small spot of flat ground, right bank of the river. This place is amid snow, and surrounded by gigantic peaks, cased in snow, from top to bottom. The barometer indicated our halting place to be 12,352 feet above the level of the sea; one of the peaks was 9471 feet higher, and distant 42,480 feet, and bearing E. 46.44 S. To the feet and flanks of this, and other great peaks, stretches a snow bed of unknown depth, and inclined at an angle of 7°. —It commences at 6500 feet from the present station, where the <i>Ganges</i>

Places.	Latitude.			Province & District.	Remarks.
	°	'	"		
					is seen issuing from under it. The breadth of the stream, was, on the 31st May, 27 feet, and 12 to 18 inches deep. The thickness of the snow bed, which overlaid the stream there, was estimated at between 250 and 300 feet perpendicular. The surface of the bed, was traversed as far onward as possible; its extent in length was about $6\frac{1}{2}$ or 7 miles, its breadth $1\frac{1}{2}$ miles; it entirely concealed the stream, which was not again observed; and there is every reason to suppose, its first appearance is at the <i>debouche</i> , which I will call MAHA DE O's hair, and the latitude of which is $30^{\circ} 56' 06''$ . There is no record of any person having penetrated to this place.

THE following observations of Eclipses of Jupiter's Satellites, will be useful in shewing the longitudes of *Seharanpur*, and several places in the mountains, the latitudes of which have been noted above. Till corresponding observations of these Satellites can be obtained from *Greenwich*, or some other Observatory, we must be content to compare them with the calculations in the *Nautical Almanack*.

Place.	Year	Month.	Mean time of observation.			Diff. in time.			Remarks.
			h.	m.	s.	h.	m.	s.	
Mr. GRINDALL'S } house, near <i>Seharanpur</i> }	1817	July 13	11	32	35				This appeared to be a pretty good observation, but the air was not very clear.
			6	21	57	5	10	38	
<i>Ditto</i> .....	1817	July 29	9	50	58	0			Emersion of Jupiter's 1st Satellite. Sharp and good observation.
		N. A.	4	40	59	5	10	8	
<i>Ditto</i> .....	Do.	August 14	8	10	12				Emersion, 1st Satellite. Good observation, but suspected. I saw it 3 seconds before, or at $8^{\text{h}}. 10^{\text{m}}. 09^{\text{s}}$ .
		N. A.	2	59	51	5	10	21	

Place.	Year	Month.	Mean time of observation.			Diff. in time.			Remarks.
			h.	m.	s.	h.	m.	s.	
Mr. GRINDALL'S House, near <i>Seharanpur</i> }	1817	Aug.	21	10	5 13	-1			Emersion, 1st Satellite. Good sight.
<i>Ditto</i> .....		N. A.		4	54	56		5 10 17	
<i>Ditto</i> .....	Do.	Sept.	6		8 24 17	-2			Emersion, 1st Satellite. The observation seemed good, but the planet was rather low.
					3 13 46		5 10 31	-2	
<i>Ditto</i> .....	Do.	Oct.	15		6 55 43	-3			Emersion, 1st Satellite. A very good and sharp sight; a little moon light, but no hindrance.
					1 45 25		5 10 18	-3	
Mean of the					6 0 0		5 10 22	-37	Telescope, DOLLOND's 42 inch refr. —power 80—Chronometers, by BROCKBANKS and MOLINEUX; time, by equal alts. on all the wires of the circular instrument.
Dates in the <i>Dias</i> ....	1814	April	25		8 0 40	-5			Emersion, 1st Satellite—Telescope, DOLLOND's 34 inch refr.—aperture 2 <sup>in</sup> . 7.—power 80—an excellent glass of its size. The <i>Greenwich</i> 42 inch refractor can only spare it one second of time, by actual trial.
					2 48 59		5 11 41	-5	
<i>Ditto</i> .....	Do.	April	25		8 23 56	-4			Emersion, 2d Satellite—It came out close to the 1st—but, as usual, gives almost 1 <sup>m</sup> . later, or more, east longitude. Taken near the MERCHANT's temple.
					3 11 12		5 12 44	-4	
<i>Ditto</i> .....	1817	March	9	17	37 43	-5			Immersion, 1st Satellite—Good observation—DOLLOND's 42 inch telescope—aperture 2 <sup>in</sup> . 7.—power 80. The above temple, distant 1 <sup>m</sup> . 3 <sup>f</sup> . bearing 247°.
					12 25 44		5 11 59	-5	
<i>Ditto</i> .....	Do.	Aug.	21	10	7 15				By Lieut. HERBERT—DOLLOND's 42 inch telescope—same power, &c. as mine. At Captain YOUNG's <i>Bungalow</i> —Latitude 30°. 19'. 17." 5. Difference of longitude, compared with mine, some time, at <i>Seharanpur</i> 2 <sup>m</sup> . 02 <sup>s</sup> of time. N. B. The <i>Bungalow</i> is a second of time west of my place of observation.
					4 54 56		5 12 19		
<i>Ditto</i> .....	Do.	Sept.	6		8 26 8	-2			By Lieut. HERBERT, same place. This gives 1 <sup>m</sup> . 51 <sup>f</sup> . east of mine, of same night, at <i>Seharanpur</i> .
					3 13 46		5 12 22	-8	

Place.	Year	Month.	Mean time of observation.			Diff. in time.			Remarks.
			h.	m.	s.	h.	m.	s.	
Chaur mountain, my pyramid, and station of observation..}	1817	Oct. 15	6	55	34	5	12	59	An immersion of the 3d Satellite gave him 5. 12. 59. The date I have mislaid.
			1	45	25	5	10	9	·9 Lieut. HERBERT.—Mine of same night, at <i>Seharanpur</i> , 6. 55. 43, 3. difference 8'. '4. is rather too little—should be 15'.
Bhadraj mountain, N. } W. end of the <i>Dún</i> }	1814	May 2	9	54	35	5	10	59	·5 Emersion, 1st Satellite. Good observation—N. W. peak of the mountain, at <i>BALAB'HADRA'S</i> statue.
Ditto.....	Do.	Do. Do.	10	59	48	5	11	14	·5 Emersion, 2d Satellite—Clear—The 34 inch telescope, which is one second of time later than the <i>Greenwich</i> refractor, with which it was compared in England.
Nahan .....	Do.	May 11	11	45	19	5	9	9	·7 Emersion, 3d Satellite. A tolerably good observation, below the west end of the town.
			6	36	10	5	9	9	·7
Ditto.....	1816	April 1	10	39	29	5	9	10	·2 Immersion, 2d Satellite. A good observation. Satellite lost light for 32 seconds, before it disappeared—At Captain <i>WILSON'S</i> house, N. of the above place.
Ditto.....	Do.	May 9	10	56	50	5	9	28	Emersion of 1st Satellite being interrupted, I did not get a very good observation. Captain <i>BIRCH'S</i> house, 100 yds. east of the other place.
			4	47	22	5	9	28	·2
Mattana, in <i>Comarsén</i>	Do.	May 25	8	15	23	5	10	34	Emersion, 1st Satellite. Not a good observation—The telescope, unsteady.
Tranda in <i>Canaur</i> , on the <i>Setlej</i> , within the <i>Himalaya</i> .... }	Do.	June 17	8	29	58	5	12	37	Emersion, 1st Satellite—a fine observation, and valuable. A long set of distances of sun and moon, taken by the reflecting circle, give 5'. 12". 24".—Lat. of <i>Tranda</i> 31', 33'. 42".—All the above by me, with 34 inch telescope.
			3	17	21	5	12	37	·2

Place.	Year	Month.	Mean time of observation.			Diff. in time.			Remarks.	
			h.	m.	s.	h.	m.	s.		
(On the Jumna, within the mountains of Rewaen)										
Gira .....	1817	April	9	14	41 55	-5	5	13	29	·5 Immersion, 2d Satellite. Very clear observation—Satellite lost lustre 32'. before it went. This and the following observations, by me, with the 42 inch telescope. On the 10th, I took the 1st Satellite; there was some doubt in noting the time, but I believe it will give 5°. 12". 40'.
Banasa .....	Do.	April 16	17	16	5		5	14	36	Immersion, 2d Satellite. A tolerable observation—but the dawn was beginning; I think it might otherwise have been seen 3 or 4'. later,
Cursáli, near Jumnatri, which bears 41° N. E. ....	Do.	April 17	16	3	42		5	13	9	Immersion, 1st Satellite—I suspected I saw the glimmer till 16°. 03". 46". or 4'. later, but not certain—Air very clear—Same day, Lieut. HERBERT observed the immersion at Sikri in Rohil'hand at 16°. 06". 28". Difference 1". 46".—Sikri is between Bareilly and Chundausi.
(On the Ganges, within the mountains of Rewaen)										
Reital .....	Do.	May 10	16	14	21	-5	5	13	16	·5 Immersion, 1st Satellite—Same telescope. Air clear, but there was a slight wind.
Ditto .....	Do.	May 12	10	42	56		5	13	23	A very fine observation, considering that the planet is so near opposition. The air calm, and in these elevated regions, exceedingly clear. Satellite lost lustre 50'. before it went. Same night, Lieut. HERBERT's observation—The immersion at 10°. 42". 09'. 9. at Chakoorpara—lat. 30°. 22'. 30'.
Ditto .....	Do.	May 11	14	13	35	-7	5	15	53	·7 Immersion of the 2d Satellite—Clear and steady—I followed the Satellite deep into the shadow. It continued to lose lustre for 90

Place.	Year	Month.	Mean time of observation.		Diff. in time.		Remarks.	
			h. m.	s.	h. m.	s.		
<i>Suc'hi</i> .....	1817	June 13	9 28	28	·7		less than 76 seconds, before it finally disappeared. It gives a longitude more than usually east of the 1st Satellite. The planet being now so near opposition, is large and bright, and its glare is some impediment to the precision of observation.	
<i>Himálaya</i> .....			4 13	36		5 14	52 ·7	Emersion—1st Satellite. Night clear, and no moon. Lieut. HERBERT and I, both observed; he caught the first glimpse 3 seconds before I did so; I have recorded his sight of it.
N. B.—For the latitudes of this and the foregoing places, see the list of latitudes.								

WE could not take any observations of the Satellites higher up the *Ganges* than *Suc'hi*, as the great height of the impending cliff, (some times 50°. above us), prevented our seeing Jupiter, when the Eclipses took place. By the same cause, I have lost many observations in other parts of the mountains.

THE longitudes of all the snowy peaks, visible from it, will be deduced from the meridian of *Seharanpur*, by triangles, as well as their latitudes, distances and heights. The base for the purpose is that of the *Chaur* mountain and *Seharanpur*, the station signals at each place, being visible from the other, and at the distance of sixty-one *British* miles. The angles of the grand snowy peaks have been taken at each station with the circular instrument, as well as their apparent altitudes at different times.



Places.	Latitude.			Province & District.	Remarks.
	°	'	"		
(March of the Reserve, from Rewarrie, toward Jaipur.)					
Rewarrie, (Camp, Head quarters) .....	28	11	1	Delhi .....	7 furlongs S. W. of the town of <i>Rewarrie</i> . Longitude, west of S. E. angle of the city of <i>Delhi</i> wall, 2 <sup>m</sup> . 28'. 5 of time or 37'. 07". of space, by transference of time, by <i>MOLINEUX</i> 's chronometer.
Camp, near <i>Bhuzul</i> .....	28	3	59	<i>Kanaukh</i> .....	Camp, 8 furlongs S. of the town. Distance 9 <sup>m</sup> . 1'.
Camp, near <i>Bairud</i> .....	27	53	1	<i>Alwar</i> .....	Distance to <i>Shahjehampur</i> , 11 <sup>m</sup> . 3'; to <i>Bairud</i> , 10 <sup>m</sup> .
<i>Goojerbas</i> .....	27	49	16.1	<i>Ditto</i> .....	5 furlongs S. of the village; distance 8 <sup>m</sup> . 1'.—Hence, the observations were taken conjointly with Captain <i>BARTON</i> , Assistant quarter master general.
<i>Calhputli</i> .....	27	41	53	<i>Ditto</i> .....	Belongs to a small chief—1 <sup>m</sup> . 3'. S. west of the town of <i>Kote</i> ; distance about 10 miles, but the wheel broke on the road—Longitude 24'. 15". west of <i>Rewarrie</i> camp.
<i>Prayágnpur</i> .....	27	35	41.1	<i>Jaipur</i> .....	7 furlongs S. W. of the town. Distance 9 <sup>m</sup> . 4'.
<i>Babra</i> .....	27	26	31.22	H. <i>Ditto</i> .....	2 miles S. W. of the town. Distance 11 <sup>m</sup> . 4'.
<i>Manoherpur</i> .....	27	16	50	<i>Ditto</i> .....	1 <sup>1</sup> / <sub>2</sub> miles S. of the town. Distance 13 <sup>m</sup> . 3'.
<i>Samoat</i> .....	27	11	46.45.2	H. <i>Ditto</i> .....	6 furlongs east of the town gate. Distance 12 <sup>m</sup> . 2 <sup>1</sup> / <sub>2</sub> '—Longitude by chronometers, 26 <sup>m</sup> west of <i>Kote</i> , and <i>Pulki</i> camp.
<i>Nanghul</i> .....	27	3	35.2	<i>Ditto</i> .....	Distance 10 <sup>m</sup> . 6'.
<i>Juwára</i> .....	26	56	35	<i>Ditto</i> .....	Head-quarters. Distance 9 <sup>m</sup> . 6'. <sup>1</sup> / <sub>4</sub> <i>Jaipur</i> is distant about 9 miles.
<i>Sanganér</i> .....	26	49	10.9	<i>Ditto</i> .....	Mean of several sets of observations, by Captain <i>BARTON</i> and myself—Head-quarter, Camp. Distance 10 <sup>m</sup> . 0 <sup>1</sup> / <sub>4</sub> '. The N. W. bastion of the town of <i>Sanganér</i> , distant 1 <sup>1</sup> / <sub>2</sub> furlongs, bearing 104°. 90'. <i>Jaipur</i> is about 7 miles from <i>Sanganér</i> —Longitude, west of <i>Samoat</i> camp, by chronometers 1'.

Places.	Latitude.		Province & District.	Remarks.
	°	'		
<p><i>Circumstances rendering it out of our power to take any observations in the city of Jaipur, we measured a sufficient base, and took the distances of such remarkable objects there as were visible, and from the Trigonometrical observations, found the latitudes of the following places to be:</i></p>				
High pillar, near the observatory in Jaipur .. }	26	55 0		<p>Total distant, <i>Rexarrie</i> camp to <i>Sanganér</i>, British 125<sup>m</sup>. 7<sup>ur</sup>.</p> <p>The pillar east of <i>Sanganér</i>, camp 2'. 30". Center of the city, nearly 3'. 14". or 1°. 12'. 38". west of the east wall of <i>Delhi</i>, which I take to be about 77°. 14'. 15". east of <i>Greenwich</i>, and <i>Jaipur</i> 75°. 50'. 07".—Longitude, east of <i>Greenwich</i>.</p>
Palace of <i>Nehr-gerh</i> , on the hill .....	0	55 42		
Fort above east end of the town .....	0	53 53		
Fort of <i>Mootie Doongrie</i> , between <i>Sanganér</i> and <i>Jaipur</i> .....	0	53 10		
Fort of <i>Atrouic</i> , without the wall, at S. W. angle }	0	54 26		
<p>(<i>Sanganér</i>, to <i>Rexarrie</i> town, by <i>Raj-gerh</i> and <i>Alwar</i>.)</p>				
<i>Gunur</i> .....	26	46 37.5	<i>Jaipur</i> .....	East side of the town. Distance from <i>Sanganér</i> , 9 <sup>m</sup> . 2'.
<i>Bijaci Bussei</i> .....	26	49 55	<i>Ditto</i> .....	East side of the town. Distance 10 <sup>m</sup> . 2'.
<i>Jeitwarra</i> .....	26	52 36	<i>Ditto</i> .....	East side of the village. Distance 10 <sup>m</sup> . 5'.
<i>Kula Pahár</i> .....	26	58 59	<i>Ditto</i> .....	1 furlong east of the small fort on the hill. Distance 14 <sup>m</sup> . 1'.
<i>Carnaul</i> .....	27	7 14	<i>Ditto</i> .....	2 furlongs N. E. of the village, part of it belongs to <i>Jaipur</i> , and part to the <i>Rajá</i> . Distance 14 <sup>m</sup> . 7'.—Observation of the latitude, not good. They call the country here <i>Dhoonhar</i> , and the <i>Pergunna</i> , <i>Bhattcri</i> .

Places.	Latitude.			Province & District.	Remarks.
	°	'	"		
Raj-gerh . . . . .	27	13	48	Alwar . . . . .	A large and strongly fortified town in a recess of the hills, belongs to the <i>RAM Rájá</i> of <i>Alwar</i> ; 3 furlongs west of the town. Distance 10 <sup>m</sup> . 4 <sup>f</sup> .
(Longitude of Raj-gerh, east of Sanganér, 49° 30'. by Chronometer.)					
Malacera . . . . .	27	24	33	Ditto . . . . .	A strong mud fort in the plain, with <i>rauni</i> and ditch, and a stone citadel within 4 furlongs N. of it. Distance 11 <sup>m</sup> . 3 <sup>f</sup> .
Alwar . . . . .	27	34	1	Ditto . . . . .	A large and strong town at the east foot of a steep hill, which is fortified—2½ furlong from N. E. angle of the town. Distance 13 <sup>m</sup> . 4 <sup>f</sup> .
Baháderpur . . . . .	27	39	47	Ditto . . . . .	Small town and fort on a low hill. Distance 11 <sup>m</sup> . 1 <sup>f</sup> .
Crishna-gerh . . . . .	29	49	31	Mewat . . . . .	West side of the fort, which has about 16 stout mud bastions, a <i>rauni</i> and ditch, and a stone citadel within,—stands on the plain, and belongs to <i>RAM Rájá</i> . Distance 12 <sup>m</sup> .
Cot Cásim . . . . .	28	1	34	Ditto . . . . .	Small open town, belongs to the palace at <i>Delhi</i> . Distance 15 <sup>m</sup> . 3 <sup>f</sup> .
Rewarri . . . . .	28	11	30	Delhi . . . . .	Commissariat office— <i>Ráni-bágh</i> , west side of the town. Distance 15 <sup>m</sup> . 3 <sup>f</sup> .

THE latitudes in this list were deduced from meridian and circum-meridian altitudes of the sun and stars, taken with sextants, or, more generally, by TROUGHTON'S reflecting circles—Except four places in *Huriána*, and five in the city of *Jaipur*, the latitudes of which were obtained by trigonometrical processes.

## ERRATA.

Page 170—line 36, for 7108 read 7444  
 171—line 5, for 8494 read 8869  
 do—line 3, for 10,073 read 10,319