

PUKEARUHE OBSERVATORY.

Inst. 12in. Altazimuth. Observer, T. Humphries.

Date.	Pairs.	Latitude.	Diff. from Mean.	Nightly Mean.
1884. June 23..	585 595 608 613 639 622 639 657 660 657 677 689 692 695 705 695 712 709 705 723 727 732 746 736 746 754 774 776 774 770 783 770 791 789 797 810 804 810	38 53 57.60 53 53.40 53 57.10 54 00.05 53 56.05 53 54.95 53 57.60 53 57.35 53 59.20 53 55.10 53 57.50 53 57.50 53 55.95 53 56.15 53 56.25 53 56.25 53 56.40 53 55.15 53 56.50	.82 3.38 .32 3.27 .73 1.83 .82 .57 2.42 1.68 .72 .72 .83 .63 .53 .53 .38 1.63 .28	38 53 56.66
24..	567 559 567 622 639 628 654 657 660 689 692 695 705 695 712 709 712 723 727 732 746 736 746 754 774 770 783 789 791 789 797 810 804 810	53 59.20 53 57.95 53 57.35 53 59.65 53 55.85 53 56.65 53 58.95 53 56.40 53 58.70 53 57.50 53 54.90 53 55.70 53 53.30 53 56.25 53 58.10 53 57.45 53 58.40	2.42 1.17 .57 2.87 .93 .13 2.17 .30 1.92 .72 1.88 1.08 3.48 .53 1.32 .67 1.62	38 53 57.19
25..	567 559 585 595 608 613 639 622 654 657 660 709 712 709 712 723 727 732 774 754 774 770 783 789 791 789 797 810 804 810 818 820 818 824 834 838	53 55.55 53 58.50 53 57.25 53 57.00 53 57.15 53 54.85 53 58.15 53 58.10 53 55.45 53 58.65 53 59.80 53 55.10 53 55.65 53 55.15 53 56.45 53 53.95 53 52.95 53 58.00	1.23 1.72 .47 .22 .37 1.93 1.37 1.32 1.33 1.87 3.02 1.68 1.13 1.63 .33 2.83 3.83 1.22	38 53 56.55
		55) 372.80 38 53 56.78	73.40 1.33	

Probable error $\pm 0''.15$.

MARSLAND HILL OBSERVATORY.

Inst. 12in. Altazimuth. Observer, T. Humphries.

Date.	Pairs.	Latitude.	Diff. of Mean.	Nightly Mean.
1883. Dec. 29..	144 141 170 166 190 179 170 166	39 3 59.9 3 55.9 3 58.41 3 58.6	2.05 1.95 .55 .75	39 3 58.07
30..	170 166	3 58.6	.75	39 3 56.70
1884. Jan. 18..	195 202 243 229 270 254	3 54.8 3 59.8 3 56.2	3.05 1.95 1.65	39 3 58.00
22..	243 229 270 254 270 273	3 58.1 3 56.5 3 56.4	0.25 1.35 1.45	39 3 57.00
24..	243 229 248 254 270 254 270 273	3 58.5 3 58.4 3 55.9 3 59.4	.65 .55 1.95 1.55	39 3 58.05
25..	243 229 244 254 248 254 270 254 277 273 283 287 311 287 320 318 320 332	3 58.0 3 59.4 3 57.3 4 00.0 3 55.5 3 56.5 3 55.4 3 59.2 3 59.0	.15 1.55 .55 2.15 2.35 1.35 2.45 1.35 1.15	39 3 57.81
29..	248 287 283 287 311 287 311 314 318 314 320 332 320 333	4 00.5 3 56.8 3 57.9 3 57.8 3 54.9 3 59.8 3 58.7	2.65 1.05 .05 .05 2.95 1.95 .85	39 3 58.06
Feb. 1..	248 254 270 254 270 273 277 273 277 287 283 287 311 314 320 332	3 58.9 3 59.0 3 57.2 3 58.4 3 56.5 3 56.3 3 59.4 4 00.2	1.05 1.15 .65 .55 1.35 1.55 1.65 2.35	39 3 58.24
2..	248 287 277 287 283 287 283 314	3 58.9 3 57.8 3 56.8 3 58.0	1.05 .05 1.05 .15	39 3 57.87
3..	270 273 277 273 283 287	3 57.4 3 59.1 3 57.1	.45 1.25 .75	39 3 57.86
6..	248 254 270 254 277 287 283 287 311 314 318 314 320 332 320 333 338 333	3 57.4 3 57.7 3 57.5 3 56.0 3 58.6 3 58.4 3 59.5 3 56.7 3 57.8	.45 .15 .35 1.85 .75 .55 1.65 1.15 .05	39 3 57.78
		424.1 39 3 57.85	63.30 1.172	

Probable error $\pm 0''.13$

For tables of Astronomical and Geodesical Latitudes see page 36.