

The period was considered fixed from a comparison of Mount Wilson observations with our own and observation equations were built up connecting the residuals with the remaining six elements. Making the transformations,

$$\begin{aligned} x &= \delta\gamma \\ y &= \delta K \\ z &= \delta K_1 \\ u &= 100.\delta e \\ v &= 100.\delta\omega \\ w &= [1.79075] \cdot \delta T \end{aligned}$$

The observation and resulting normal equations are as follows:—

OBSERVATION EQUATIONS

	Weight	x	y	z	u	v	w	$-n$
1	.6	1.000	+ .675		— .704	+ .639	— .778	+ 6.6=0
2	.7	1.000	+ .894		— .628	+ .619	— .843	— 7.3
3	1.4	1.000	+ 1.177		+ .912	+ .180	— .346	— 1.6
4	1.1	1.000	+ 1.508		+ .994	+ .020	+ .017	+ 1.5
5	1.0	1.000	+ 1.267		+ .078	— .376	+ .742	— 2.0
6	.9	1.000	+ .974		— .501	— .521	+ .787	+ 3.2
7	.3	1.000	+ .071		— .128	— .531	+ .304	— 0.5
8	.8	1.000	+ .034		— .222	+ .573	— .348	— 1.5
9	1	1.000		— .726	+ 1.035	— .765	+ .975	+ 12.5
10	.4	1.000		— 1.494	— .960	— .158	+ .281	— 1.2
11	.2	1.000		— .971	+ .820	+ .631	— .952	— 4.4