Normal equations resulting from these observation equations were as follows:—

$$\begin{aligned} 23x - 1{\cdot}713y - 0{\cdot}444z + 0{\cdot}037u - 9{\cdot}650 &= 0 \\ 11{\cdot}711y + 0{\cdot}421z - 0{\cdot}970u + 9{\cdot}050 &= 0 \\ 11{\cdot}700z - 0{\cdot}900u + 0{\cdot}545 &= 0 \\ 11{\cdot}327u - 14{\cdot}621 &= 0 \end{aligned}$$

Solving these gave,

$$\begin{aligned} x &= +\ {\cdot}37 \\ y &= -\ {\cdot}62 \\ z &= +\ {\cdot}085 \\ u &= +1{\cdot}244 \end{aligned}$$

from which,

$$\begin{aligned} \delta\gamma &= +\ {\cdot}37 \text{ km.} \\ \delta K &= -\ {\cdot}62 \text{ km.} \\ \delta e &= +\ {\cdot}0017 \\ \delta\omega &= +1^\circ{\cdot}44 \end{aligned}$$

and hence the new values of the elements,

$$\begin{aligned} P &= 5{\cdot}969 \text{ days} \\ e &= {\cdot}0217 \\ \omega &= 191^\circ{\cdot}44 \\ \gamma &= -17{\cdot}13 \text{ km.} \\ K &= 48{\cdot}88 \text{ km.} \\ T &= 2{,}419{,}362{\cdot}52 \text{ J. D.} \end{aligned}$$

The value of Σpvv was reduced from 25 to 16 — a very substantial reduction. Exeellent agreement between computed and observation equation residuals showed that any further solution would be useless, and these elements were accepted as final.