ELEMENTS OF COMET 1905 VI.

By ELEANOR A. LAMSON.

This comet was discovered by BROOKS at Geneva, N. Y., January 26, 1906. Elements were computed from observations made on January 27, 28, at Lick, and January 29 at Washington. The method used is that given by OPPOLZER in *Bahnbestimmung der Kometen und Planeten*.

The observations are as follows:

Date.	Place.	Greenwich Mean Time.	Apparent α .	Apparent δ .	Red. to 1906.0	
					α	δ
1906		h m s	h m s	° ' "	s	"
Jan. 27	Lick	21 24 29	16 18 49.7	+48 51 15	+0.4	-8
28	Lick	23 2 7	16 17 57.4	+50 37 12	+0.4	-8
29	Washington	15 21 17	16 17 5.8	+52 8 30	+0.4	-8

Elements.

$T = 1905$, December 24.4995, Greenwich Mean Time.

$$\begin{aligned} \omega &= 92 \ 36 \ 56 \\ \Omega &= 287 \ 16 \ 20 \\ i &= 126 \ 4 \ 30 \\ q &= 1.3050 \end{aligned} \left. \vphantom{\begin{aligned} \omega &= 92 \ 36 \ 56 \\ \Omega &= 287 \ 16 \ 20 \\ i &= 126 \ 4 \ 30 \\ q &= 1.3050 \end{aligned}} \right\} 1906.0$$

Elements were also computed from the following observations made at Washington, January 29, 31, February 1, 3. The observations of January 29 and February 3 were used directly, while the middle place, equidistant from these dates, was a normal derived from all four observations.

Date.	Washington Mean Time.	Apparent α .	Apparent δ .	Log pA .		Red. to 1906.0	
				α	δ	α	δ
1906	h m s	h m s	° ' "			s	"
Jan. 29	15 21 17	16 17 5.76	+52 8 29.6	9.830 _n	0.046	+0.44	-7.5
31	16 24 13	16 14 33.25	+55 46 31.9	9.773 _n	9.892 _n	+0.46	-7.5
Feb. 1	15 53 50	16 12 59.52	+57 35 12.4	9.834 _n	9.719 _n	+0.47	-7.4
3	16 9 38	16 8 48.10	+61 26 31.7	9.839 _n	0.188 _n	+0.49	-7.4

ORBITS OF COMETS.

B 145

Elements. $T = 1905$, December 21.98542, Greenwich Mean Time.

$$\begin{array}{rcl}
 & ^\circ & ' \quad '' \\
 \omega = & 89 \cdot 29 & 20.9 \\
 \Omega = & 286 \ 18 & 37.4 \\
 i = & 126 \ 28 & 42.0 \\
 q = & 1.29432 &
 \end{array} \left. \vphantom{\begin{array}{rcl} \omega \\ \Omega \\ i \\ q \end{array}} \right\} 1906.0$$

The residuals (O-C) for the middle place are $\cos \beta \Delta\lambda = -0''.5$ and $\Delta\beta = -1''.3$.

Heliocentric Coordinates 1906.0

$$\begin{array}{l}
 x = r [9.803432] \sin (243 \ 16 \ 59.4 + v) \\
 y = r [9.999813] \sin (331 \ 14 \ 6.5 + v) \\
 z = r [9.887776] \sin (\ 59 \ 50 \ 49.5 + v)
 \end{array}$$