

PERIODIC COMET RUSSELL 2 1980o

The following improved orbital elements, by S. Nakano, are from five observations 1980 August 9 to October 6. Perturbations by all nine planets were taken into account. The mean residual is ± 0.72 arc second:

| | | | |
|--------|-------------------|------------------|------------|
| Epoch= | 1980 May 1.0 ET | | |
| T = | 1980 May 19.53680 | ± 0.28630 | (m. e.) ET |
| Peri.= | 245.44105 | ± 0.32643 | |
| Node = | 44.45337 | ± 0.32141 | 1950.0 |
| Inc. = | 12.53132 | ± 0.04339 | |
| q = | 2.1605788 | ± 0.0014802 | AU |
| e = | 0.4162493 | ± 0.0003217 | |
| a = | 3.7012013 | ± 0.0015068 | AU |
| n = | 0.13841718 | ± 0.00008453 | |
| P = | 7.121 | ± 0.00435 | years |
| | | ± 1.59 | days |

The following residuals in seconds of arc are from the above orbital elements:

| Date/ UT | *** O-C *** | Code / Obs. |
|-----------------|-------------|-------------|
| | " " | |
| 1980 Aug. 9.622 | 0.0 0.0 | 413 / SS |
| Sept. 28.429 | 0.4- 0.8- | 413 / SS |
| Oct. 2.416 | 1.3+ 1.4+ | 413 / SS |
| 3.410 | 0.5- 0.1+ | 413 / SS |
| 6.431 | 0.3- 0.7- | 413 / SS |

() ----- Rejected Obs.

1981 March 15

S. Nakano