

THE ASTRONOMER

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COMET NISHIKAWA-TAKAMIZAWA-TAGO (1987c)

This comet was discovered independently by four observers as follows:

| 1987UT | R.A. (1950) | Dec | m1 | Observer |
|------------|-------------|--------|----|------------|
| Jan 19.483 | 0 04.2 | +06 52 | 9 | Nishikawa |
| 20.399 | 0 03.5 | +06 35 | 9 | Takamizawa |
| 20.431 | 0 02.8 | +06 28 | 9 | Tago |
| 20.434 | 0 03.0 | +06 28 | 9 | Mitsuma |

The first position has been remeasured (since our cable alert of 870121) by Kosai. The first discoverer is Noboru Nishikawa of Minamata, Kumamoto and the instrument was 0.15-m refractor.

Elements by Marsden:

T=1987 Feb. 18.03 ET Peri = 137.54

Node = 156.56

q= 1.0498 AU

Incl = 174.14

Ephemeris:

| 1987ET | RA (1950) | Decl | Earth | Sun | Elong | m1 |
|-----------------|-----------|-------|-------|------|-------|----|
| Jan 25 23 56.09 | + 4 51.76 | 1.293 | 1.123 | 56.7 | 8.0 | |
| 30 23 50.13 | + 3 26.17 | 1.424 | 1.097 | 49.6 | 8.1 | |
| Feb 4 23 45.39 | + 2 16.26 | 1.548 | 1.075 | 43.0 | 8.2 | |
| 9 23 41.48 | + 1 17.46 | 1.663 | 1.060 | 36.6 | 8.3 | |
| 14 23 38.16 | + 0 26.69 | 1.766 | 1.051 | 30.5 | 8.4 | |
| 19 23 35.26 | - 0 18.16 | 1.858 | 1.049 | 24.4 | 8.5 | |

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