

# Nice observatory measurements of double stars (3rd series)\*

J.-C. Thorel\*\*

Observatoire de la Côte d'Azur, Département Augustin Fresnel, BP. 4229, 06304 Nice Cedex 4, France

Received June 9; accepted August 20, 2000

**Abstract.** We present recent measurements of visual double stars made at the Nice Observatory (3rd series). We also report the discovery of a new double star: JCT 4. Moreover we give a more precise position of the double star DOO 35.

**Key words:** astrometry, binaries: visual

## 1. Introduction

In previous papers (Thorel 1996, 1998, 2000) we presented measurements of double stars made at Nice with the 50 cm equatorial refractor equipped with a wire micrometer and an electronic recording device. The research program proposed by Dommanget is aimed at completing the CCDM catalogue (resolution of ambiguities in the binarity characteristics and the position of certain double stars which have seldom or never been observed again since the epoch or their discovery; cf. Dommanget & Nys 1999).

## 2. Results

The aim of the short communication is threefold:

1. We present here new measures made between September 1997 and April 2000. Table 1 (available at CDS) gives results of measures of 41 visual double stars;
2. We report the discovery of a new double star, named JCT 4;
3. We give more precise coordinates for the star DOO 35 together with the position of its companion. DOO 35

\* Table 1 is only available in electronic form at the CDS via anonymous ftp to cdsarc.u-strasbg.fr (130.79.128.5) or via <http://cdsweb.u-strasbg.fr/Abstract.html>

\*\* Present address: 26 avenue Alfred Borriiglione, 06100 Nice, France.

is recorded under the following names:

- ADS 4494 (Aitken Double Star catalogue);
- 05477 N5257 (INDEX 1900);
- 28034 (Hipparcos Input Catalogue; ESA 1992);
- BD+52° 1011 (Bonner Durchmusterung catalogue);
- 05557+5259 (CCDM).

The star has been seen as single by the author and by Hipparcos. In the Hipparcos Input Catalogue, its 2000 coordinates are  $\alpha = 05^{\text{h}}55^{\text{m}}41.12^{\text{s}}$  and  $\delta = +52^{\circ}58'42.9''$ . However, its actual location lies 22 s to the East and 8.3' to the South. The 2000 coordinates deduced from the observations thus are:  $\alpha = 05^{\text{h}}56^{\text{m}}04^{\text{s}}$ ,  $\delta = +52^{\circ}50'26''$ . Therefore, this star coincides with BD + 52° 1012 and its CCDM number must be corrected to CCDM 05561+5250.

*Acknowledgements.* I thank J. Dommanget for his help and the Direction of the Observatoire de la Côte d'Azur for kindly allowing me to use the instrument and scientific library.

## References

- Couteau P., 1999, Catalogue de 2700 étoiles doubles COU, Édition Observatoire de la Côte d'Azur, Département Augustin Fresnel, UMR 6528 -3e Ed.
- Dommanget J., Nys O., 1999, C.C.D.M., Catalogue des Composantes d'Étoiles Doubles et Multiples
- ESA 1992, The Hipparcos Input Catalogue, Vols. 2 and 6
- ESA 1997, The Hipparcos Catalogue, Vol. 6
- INDEX of WDS (Washington Double Star catalogue), 1999, US Naval Observatory
- Jonckheere R., 1917, MmRAS, Vol. LXI, Catalogue and Measure of double stars discovered visually from 1905 to 1916, within 105° of the North Pole under 5'' separation (JDS)
- Thorel J.-C., 1996, A&AS 115, 59
- Thorel J.-C., 1998, A&AS 132, 29
- Thorel J.-C., 2000, Commission 26 of the UAI, Circ. 141